TOWN OF LONGBOAT KEY PLANNING AND ZONING STAFF REPORT

Proposal: Town Center Green- Planned Unit Development Amendment

Applicant: Town of Longboat Key (Public Works Department)

Landowner: Town of Longboat Key

Application: Planned Unit Development/Outline Development Plan (PUD/ODP)

Amendment, pursuant to Section 158.036 of the Town Zoning Code and Site Development Amendment Application, pursuant to

Section 158.030 of the Town Zoning Code.

Public Hearing: Planning and Zoning Board

Date and Time: January 17, 2023, 9:15 am

Meeting Location: Town Hall Commission Chambers

501 Bay Isles Road Longboat Key, FL 34228

Report Date: January 3, 2023

Attachments: Site Development Plan Order 2023-01

Ordinance 2023-03

Application Request

The Applicant is seeking approval of a Planned Unit Development/Outline Development Plan (PUD/ODP) Amendment to define the allowable uses, associated with the Town's phased development of the Town Center Green site, and an associated and required Site Development Plan Amendment depicting the more detailed site improvements and specifically allowing for the construction of a pavilion, stage, and accessory structures. The applications entitle the development of the Town Center Green. The subject site, located at 600 Bay Isles Road, is a part of the overall, "Bay Isles Planned Unit Development," (now referred to by its zoning classification of Mixed-Use Community - Bay Isles District {MUC-1}), which has site and use-specific entitlements.

Project Information Summary

PROJECT NAME:.....Town Center Green

APPLICANT:Town of Longboat Key Public Works

SITE AREA:209,490 square feet

EXISTING USE:Town Center Green

FUTURE LAND USE:......MUC-1 (Mixed Use Community - Bay Isles District) ZONING DISTRICT:.....MUC-1 (Mixed Use Community - Bay Isles District)

PROPOSED DEVELOPMENT/USE(S):

LOT COVERAGE:...........2,654 square feet (.012%) NON-OPEN SPACE:.......75,457 square feet (36%) OPEN SPACE:.......134,033 square feet (64%)

PARKING REQUIRED 8 parking spaces PARKING PROVIDED 81 parking spaces

USES...... Government Building, Continuing Education Center, Civic

Center, Public Park and Recreation Center, and Cultural

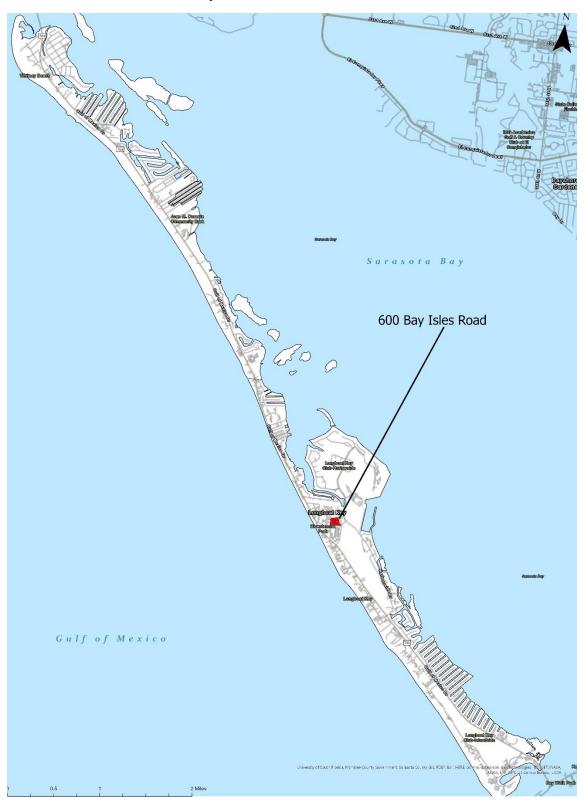
Center

Site Development Plan



Location and Map Series

The site is located at 600 Bay Isles Road.

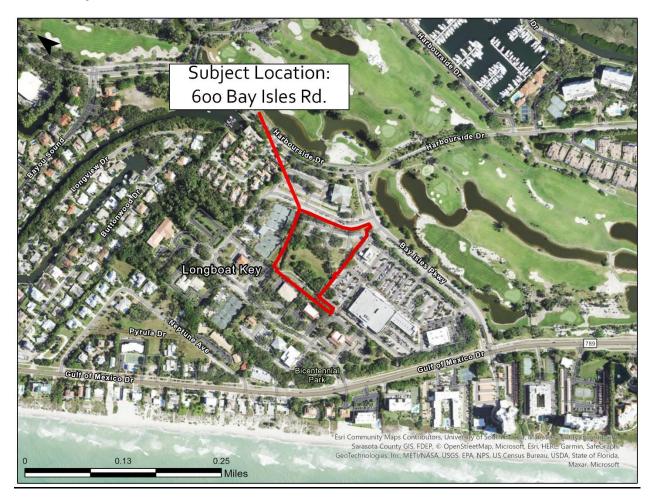


Zoning Map



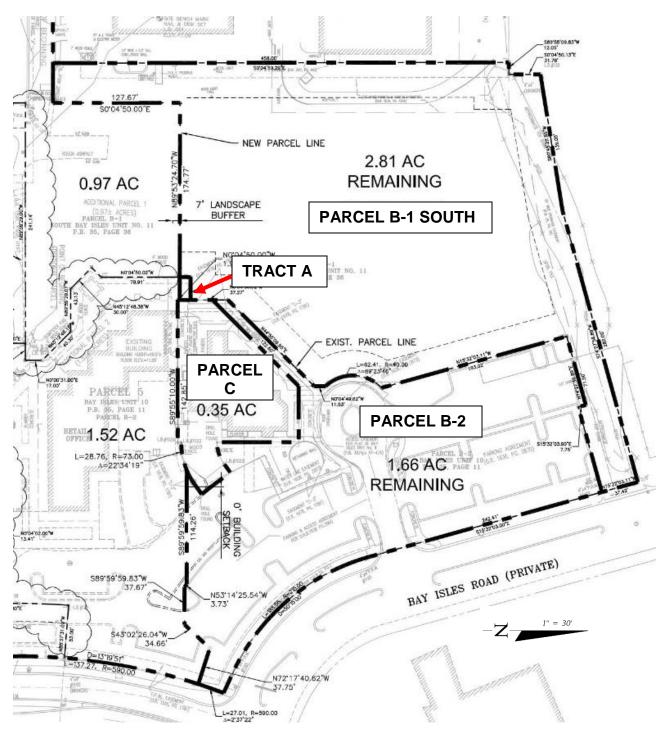
January 17, 2023

Aerial Map



Background and Summary

The Town Center Green property, 600 Bay Isles Road, is located within the Bay Isles development, on the west side of Bay Isles Road. The now-consolidated subject property was formerly four separate parcels identified previously as: B-1 South, B-2, Tract A, and Parcel C. The map identifying these parcels is shown below.



600 Bay Isles Road

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The Town recently approved a Lot Consolidation application to consolidate all of the lots into one lot. The property is zoned and has a Future Land Use designation of MUC-1, "Mixed Use Community - Bay Isles District" District.

Original entitlements date back to August 6, 1975, when the Town Commission adopted Resolution 75-27 approving the Outline Development Plan for the overall Bay Isles Planned Development zoning district. On December 5, 1983, the Town Commission adopted Resolution 83-48, which approved a site plan for the subject site and surrounding area referred to as, "Town Plaza, Phase II." The Town Plaza site plan was subsequently amended by multiple resolutions from 1983 to 2012.

On January 6, 2003, the Town Commission adopted Ordinance 2002-09, which changed the land use designation on Parcel B-1 South from commercial to residential to allow for the construction of 12 multifamily residential units. The property was never developed with the residential density, and the site remained vacant. On February 6, 2012, the Town Commission adopted Ordinance 2012-03, which deleted all previously approved allowable uses for Parcel B-1 South. The Town Commission also approved Ordinance 2012-04 and Resolution 2012-06 for parcels B-2 and C to allow for the building to be used as a restaurant (former Amore restaurant).

The original entitlements from 1975, and subsequent amendments, called for the development of a Town Plaza, a civic and commercial center, within this portion of the Bay Isles Planned Development. The Town began to purchase property in 2014 in pursuit of developing the civic and recreational portion of the Town Center, and ultimately purchased three properties from 2014 to 2017: parcels B-1 South, B-2, and C. Tract A was not identified with a name, and was not included as its own parcel in the Land Use Intensity Table. Tract A was also included in the purchase as part of parcel B-1 South. The Town also adopted Comprehensive Plan policies to encourage the development of a Town Center.

Since the purchase of the properties, the Town has held_a number of special meetings and public workshops to discuss the overall site, specific improvements, the purpose of the site, and uses. The Town also conducted surveys in 2021 and 2022, such as the Citizen Survey, to gauge public support for the development of the Town Center Green and its potential amenities. Finally, in 2022, the Town adopted the 2022 Strategic Initiatives, which identifies a specific goal of advancing long-range plans to develop community facilities on the Town Center Green property.

The Town has identified and is proceeding with three phases of the Town Center Green development:

Phase 1: Clearing and grading of site

Phase 2: Outdoor Venue and Stage

Phase 3: Future Building Facilities

600 Bay Isles Road

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The proposed PUD/ODP amendment and Final Site Plan Development amendment are the culmination in finalizing the initial plans to complete Phase 2 for the Town Center Green development, and furthering the intent of the original entitlements.

Proposed Development Summary

Site Character

The proposed Planned Unit Development/Outline Development Plan (PUD/ODP) Amendment and Site Development Plan Amendment primarily consists of the identifying and applying allowable uses for the property, and the construction of a stage, pavilion, and accessory structures. The accessory structures include the Historical Society building, and a building for restroom facilities. The Site Development Plan also identifies a great lawn, multi-purpose esplanade, pedestrian walking paths, a canopy tree walkway, and pedestrian bridge that connects to the Town's Tennis Center.

The proposed site plan showing the pavilion, stage, and accessory structures highlighted is shown below.

Proposed Site Plan (Pavilion, stage and accessory structures)



Proposed Uses

The purpose of the PUD/ODP amendment application is to assign allowable uses to the Town Center Green property. Based upon several public workshops and surveys, the Town has identified the following uses for the property: government building, continuing education center, civic center, public park and recreation center, and cultural center. The Site Development Plan Amendment, which is a required component of PUD/ODP approval, depicts the more detailed aspects of the site including allowing for the construction of a pavilion and stage and other noted accessory uses. The other allowable uses identified for the property are intended to be utilized in future development of the Town Center Green during Phase 3 of the project. The current phase of the project is utilizing the permitted MUC-1 uses of civic center and public park.

The Town is also initiating a Zoning Text Amendment to incorporate the uses of the Community Facility Institutional (INS) zoning district into the MUC-1 zoning district in order to ensure there is consistency between the uses planned for development of the Town Center Green and the underlying zoning district. The INS zoning district contains additional planned uses that are not currently listed in the MUC-1 zoning district as allowable uses, such as: continuing education center, civic center, and non-profit cultural center.

Parking and Access

Section 158.100(D) contains standards for number of required parking spaces. The required parking for the Town Center Green is based on the use of "... Parks and Other Open Recreational Spaces" for the parking calculation. The required parking ratio is: "1 parking space per 3 patrons plus one parking space per employee on largest shift." There is also a requirement to provide 0.1 bicycle spaces per required automobile space (resulting in an addition of 1 required bicycle parking space). Section 158.100(E) has additional parking requirements for ADA accessible parking spaces. The number of required accessible parking spaces is based upon the parking required for the use on the property.

The Applicant submitted a Traffic Impact Analysis report that was prepared by Kimley Horn and Associates. The report included parking requirement calculations for a museum/cultural center (an anticipated Phase 3 use) and a park. The report also included a parking analysis for peak period demands by month and time of week. The proposed Site Development Plan amendment is only entitling the development of a stage and pavilion, accessory uses and open space. Future Town Center Green development and uses will require applicable plan amendments and will be evaluated for applicable zoning requirements, including parking. Therefore, the analysis of the parking requirements in this staff report is based upon the use of stage and pavilion (park). The report's peak period parking demand analysis was used to determine the number of patrons on a typical day-to-day basis for the required parking calculation. Table 13, on page 21 of the report, states that the highest parking demand for a park during peak hours requires 8 parking spaces. The Final Site Development Plan shows that 81 parking spaces are provided.

600 Bay Isles Road

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There are anticipated scenarios where the Town Center Green will be used for larger attendance events. A range of scenarios were also evaluated for the non-typical day-to-day parking demands. Table 15, on page 23 of the report, shown below, contains a small, medium and large special event parking assessment.

Table 15: Longboat Key Town Center Park Special Event Parking Scenario Summary

Event Type	Event Description	Total Parking Spaces Needed for Event	Surplus/Deficit of Study Area Parking
Small Event	Small event that may happen on a weekday evening, such as a food truck event on the esplanade.	105	520
Medium Event	Moderately sized event where the great lawn is used at 50% of its capacity. An example event may be a concert series that happens once a month.	480	201
Large Event	Largest size event at the great lawn with a maximum capacity of 2,500 people standing. An example event may be something that occurs once or twice a year, such as a 4th of July event.	1,000	-397

The assessment shows that 81 parking spaces are not sufficient for any type of special event, and there are parking deficiencies with all event types. While the subject property does not contain an adequate number of parking spaces to meet the demand of special events, the report demonstrated that there are surrounding parcels with potential available parking to meet demands for small and medium special events. Large events will likely require even further additional measures to accommodate parking demands. Table 16, on page 24 of the report, shown below, provides the parking count for surrounding parcels and states that there is a total of 681 parking spaces on those properties.

Table 16: Surveyed Parcels Parking Count

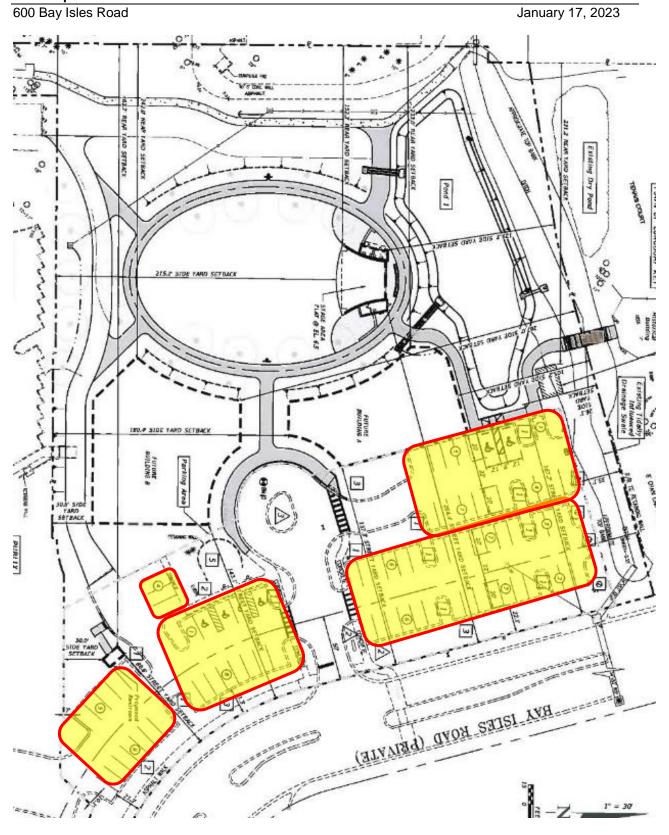
Parcel Name	Parking Count	Operating Hours
Long Boat Key Town Hall + Tennis Courts	76	730am to 5pm
Longboat Key Library	17	Tuesday and Friday 10am to 1pm
All Angles Episcopal Church	67	Monday to Thursday 9am to 1pm Sunday 8am to 12pm Closed Friday and Saturday
Temple Beth Israel	128	530pm Friday Evening Service 10am Saturday Morning Service
United States Postal Service	64	Monday to Friday 830am to 430pm Saturday 9am to 12pm Closed Sunday
SCATA Real Estate	52	Monday to Friday 9am to 4pm
SunTrust	16	Monday to Friday 9am to 5pm Closed Saturday and Sunday
Bank of America	39	Monday to Friday 10am to 4pm Closed Saturday and Sunday
Town Center Park Parcel 1	0	n/a
Town Center Park Parcel 2	0	n/a
Town Center Park Parcel 3	78	n/a
Chase Bank	26	Monday to Friday 9am to 5pm Closed Saturday and Sunday
Long Boat Key Public Tennis Center	29	730am to 5pm
Mediterranean Plaza	89	7am to 9pm
Total	681	

These spaces could be used for special events, provided the Town or event sponsor enters into a shared or borrowed agreement with the surrounding property owners. Table 16 also lists the operating hours of each parcel, which shows that most properties do not operate past 5pm. If a special event occurs in the evening, there is the potential to utilize almost all of the surrounding parking. A condition of approval has been included in the Site Development Plan Order, which would require a transportation management plan for special events held on the subject property. Condition #7 states:

- 7. A Special Event Transportation Management Plan shall be required for special events on the site. The requirements of the plan will depend on the type and size of event. Some of the items that may be considered in the plan are:
 - (1) Site access and circulation
 - (2) Parking management:
 - i. Event parking pricing

- ii. Off-site parking
- iii. Other modes of transportation to reduce vehicular trips to the site
- iv. Valet locations and operations
- v. Rideshare drop-off and pick-up locations
- vi. Disabled passenger drop-off and pick-up areas
- (3) Public information
- (4) Police control at intersections
- (5) Signage
- (6) Pedestrian management

The Town requires a Special Event Permit for any special event that takes place on Town property. The condition above could be managed and required through the permitting process for special events. The proposed parking plan is shown below and highlighted:



Open Space and Lot Coverage

The Bay Isles PUD is required to maintain a minimum of 50% open space. Project specific Open Space requirement figures are provided below:

Proposed Project Open Space Data:

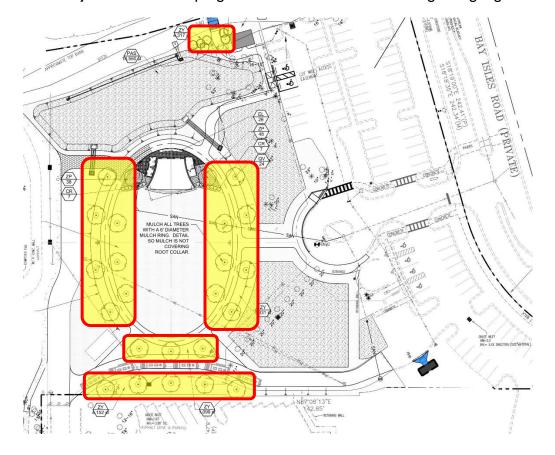
- Total Site Area: 209,490 square feet
- Total Non-Open Space (Building and Impervious Surface): 36% (75,457 square feet)
 - +2,654 (Buildings)
 - +72,803 (Parking Lot and Walkways)
- Total Open Space: 64% (134,033 square feet)

Landscaping

The landscape plan indicates that 14 trees are being removed. The removal of 14 trees requires the planting of 28 trees (a replacement of 2:1 if replacement trees are smaller than removed trees and 1:1 if the replacement trees are approximately the same size as removed trees).

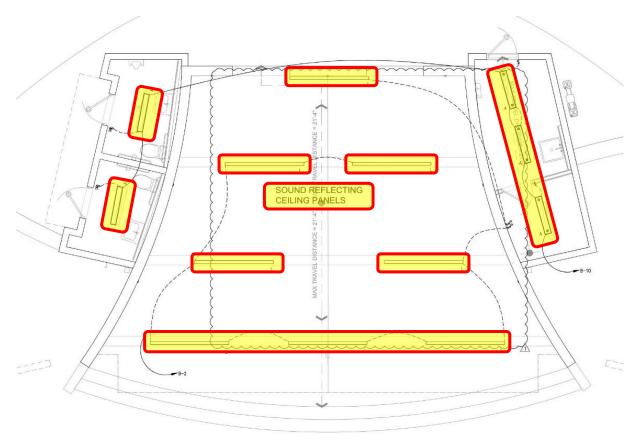
In addition to the 22 existing trees, the proposed landscape plan shows the planting of 31 trees: 24 four-inch caliber trees and seven palms. The site will also be landscaped with Pitch Apples and different ornamental grasses.

The subject site landscaping is shown below and buffering is highlighted:



Lighting and Sound

The proposed lighting plan only includes lighting on the stage. The lighting plan does not show lighting on any other part of the site. The plan also indicates the installation of sound reflecting panels, which are intended to buffer the sound coming from the stage. The proposed stage plans are shown below.



Analysis of Applications

PUD/ODP Analysis

Zoning Code Section 158.036 (C) provides review standards for PUD applications. The following is analysis of the standards for PUD approval.

1. In what respect the outline development plan is or is not consistent with the intent of a planned unit development as provided in section 158.065.

Staff Analysis: The intent of a PUD is to encourage flexibility in the design and development of land; facilitate the adequate and economical provision of streets, utilities, and public spaces; and preserve the natural and scenic qualities of open areas. The amended project design utilizes the flexibility allowed under a PUD to meet MUC-1 requirements by meeting or exceeding setbacks and still well-exceeding open space requirements while also providing for amenities that further Town goals of developing a Town Center Green.

2. Whether the plan is consistent with the town's comprehensive plan.

Staff Analysis: Staff is of the opinion that the plan is consistent with the Town's Comprehensive Plan (see Comprehensive Plan Evaluation on page 22 of the Staff Report).

3. The extent to which the plan meets the zoning and subdivision regulations otherwise applicable to the subject property without departures, waivers, or variances.

Staff Analysis: The amended application does not request any departures, waivers, or variances.

4. The purpose, location and amount of common open space in the plan, the adequacy or inadequacy of the proposals for maintenance and conservation of the common open space, and the adequacy or inadequacy of the amount and purpose of the common open space as related to the proposed density and type of development.

Staff Analysis: The common open space remains more than adequate, as proposed open space for the site is 64%. The purpose of the PUD/ODP amendment is to allow for the construction of a pavilion, stage, and accessory structures while enhancing the existing buffering and maintaining significant open space. The proposed open space is also enhanced by tree plantings and walkways. The purpose of the proposed open space is to provide a common area for the public to enjoy.

5. The physical design of the plan and the manner in which the design makes adequate provision for public services, provides adequate control over vehicular

traffic and parking, and enhances the amenities of light and air, recreation and visual enjoyment.

Staff Analysis: The physical design of the plan provides enhanced walkways and pedestrian paths, while encouraging connectivity to surrounding sites with a bridge and walkways. The purpose of the plan is to provide an additional Town public service with a recreational amenity for the public to enjoy.

The relationship, beneficial or adverse, of the proposed plan to the neighborhood in which it is proposed to be established.

Staff Analysis: Impacts to adjacent properties and the neighborhood are minimized through contextually sensitive design, such as enhanced planting. While there are no residential uses directly adjacent to the proposed site, the site is designed to have minimal impacts on the residential uses that are closest to the site. The proposed stage is directed away from the closest residential uses, so that light and sound will carry in the opposite direction (directed toward the commercial uses west of the site). As previously stated, the Town requires Special Event Permits for events that take place on Town property. Additionally, a condition of approval has been added to the Site Development Order to ensure that special events are monitored to prevent negative impacts from surrounding properties.

6. In the case of a plan that proposes development over a period of years, the sufficiency of the terms and conditions intended to protect the public interest and of the residents and owners of the planned unit development in the faithful completion of the plan.

Staff Analysis: The proposed development is part of Phase 2 of the Town's overall plan for the development. Phase 3 will commence upon completion of Phase 2 of the project.

7. The extent to which the plan provides for an effective and unified development on the project site making appropriate provision for the preservation of scenic features and amenities of the site and the surrounding areas.

Staff Analysis: The proposed development is furthering the intent of the original entitlements for the property. The original entitlements called for a Town Plaza and the proposed plan is furthering those goals with enhanced plans to provide a unified development with the surrounding properties. The proposed plan is effective in providing a plan to unify the Bay Isles Planned Development of a Town Plaza.

PUD/ODP and Site Development Plan Amendment Staff RecommendationBased on Staff's analysis, the project meets the standards of **APPROVAL**. Staff recommends approval of the PUD/ODP Amendment (Ordinance 2023-03) with the following conditions:

 The provisions of the Planned Unit Development/Outline Development application for the above referenced subject Property, dated and received by the Town on October 6, 2022, and amended on November 21, 2022, shall be complied with unless waived or modified by the following conditions or by written agreement between the Town and the Owner or amended pursuant to Town Code.

- Approval of this Planned Unit Development/Outline Development Plan (PUD/ODP) Amendment is subject to approval of Site Development Plan Order 2023-01.
- The development/construction plans shall conform to all applicable Town codes and ordinances and all other applicable regulations, including but not limited to, FEMA standards/regulations, accessibility, fire code, and life/safety requirements.
- 4. In accordance with Section 158.029(E) of the Town Code, an approved Site Development Plan for the PUD becomes null and void if:
 - (1) The Applicant shall abandon the plan or the Section thereof that has been finally approved, and shall so notify the Town; or
 - (2) Within 24 months of the date of approval of an application for Site Development Plan review, a complete application for Building Permit has not been submitted to the Town and a Building Permit issued; or
 - (3) A final Certificate of Occupancy or Final Building Permit for all phases of the project has not been issued within three years from the date set for receipt of a complete application for Building Permit for the final building or development phase of the project.
- 5. A licensed surveyor shall verify the Lot Coverage and Non-Open Space calculations upon completion of the project. Certification of the calculations shall be signed and sealed on an as-built survey and submitted to the Town prior to completion of a final building inspection related to the building permit for the project.
- 6. Approval of the proposed PUD/ODP shall be subject to payment of all staff review charges. Such charges shall be paid prior to issuance of Building Permit.
- 7. A Special Event Transportation Management Plan shall be required for special events on the site. The requirements of the plan will depend on the type and size of event. Some of the items that may be considered in the plan are:
 - (1) Site access and circulation
 - (2) Parking management:
 - i. Event parking pricing

- ii. Off-site parking
- iii. Other modes of transportation to reduce vehicular trips to the site
- iv. Valet locations and operations
- v. Rideshare drop-off and pick-up locations
- vi. Disabled passenger drop-off and pick-up areas
- (3) Public information
- (4) Police control at intersections
- (5) Signage
- (6) Pedestrian management

Site Development Plan Analysis

Zoning Code Section 158.031 provides review standards for Site Development Plan applications. The following is an analysis of the Findings of Fact standards for Site Development Plan Amendment approval.

Findings of Fact

A. In what respects the plan is or is not consistent with the comprehensive plan and the purpose and intent of the zoning district in which it is located.

Staff Analysis: See Comprehensive Plan Evaluation on page 22 of the Staff Report.

B. In what respects the plan is or is not in conformance with all applicable regulations of the zoning district in which it is located.

Staff Analysis: The proposed project meets or exceeds all required setbacks, lot coverage and open space requirements, and all other applicable regulations of the MUC-1 zoning district.

C. In what respects the plan is or is not in conformance with the town's subdivision regulations, chapter 157, and all other applicable town requirements, including the design, adequacy and construction of streets, drainage, utility facilities and other essential services.

Staff Analysis: The plan is in conformance with the regulations of chapter 157.

D. In what respects the plan is or is not consistent with good design standards in respect to all external relationships, including, but not limited to, relationship to adjoining properties; internal circulation, both vehicular and pedestrian; disposition and use of open space, provision of screening and buffering, and preservation of existing natural features, including trees; size and apparent bulk

of structures; and building arrangements both between buildings in the proposed development and those adjoining the site.

Staff Analysis: The common open space remains more than adequate, as proposed open space for the site is 64%. Impacts to adjacent properties and the neighborhood are minimized through contextually sensitive design, such as enhanced planting. While there are no residential uses directly adjacent to the proposed site, the site is designed to have minimal impacts on the residential uses that are closest to the site. The proposed stage is directed away from the closest residential uses, so that light and sound will carry in the opposite direction (directed toward the commercial uses west of the site). As previously stated, the Town requires Special Event Permits for events that take place on Town property. Additionally, a condition of approval has been added to the Site Development Order to ensure that special events are monitored to prevent negative impacts from surrounding properties.

E. In what respects the plan is or is not in conformance with town policy in respect to sufficiency of ownership, guarantees for completion of all required improvements, and, if private, the guarantees for continued maintenance.

Staff Analysis: The proposed plan is in conformance with town policy in respect to sufficiency of ownership and guarantees for competition of all improvements.

PUD/ODP and Site Development Plan Amendment Staff RecommendationBased on Staff's analysis, the project meets the standards of **APPROVAL**. Staff recommends approval of the Site Development Plan Amendment (Site Development Plan Order 2023-01) with the following conditions:

- The provisions of the Site Development Plan application for the above referenced subject property, dated and received by the Town October 6, 2022, and amended on November 21, 2022, shall be complied with unless waived or modified by the following conditions or by written agreement between the Town and the Owner or amended pursuant to Town Code.
- 2. Approval of this Site Development Plan is subject to the approval of Ordinance 2023-03.
- The development/construction plans shall conform to all applicable Town codes and ordinances and all other applicable regulations, including but not limited to, FEMA standards/regulations, accessibility, fire code, and life/safety requirements.
- 4. In accordance with Section 158.029(E) of the Town Code, an approved Site Development Plan for the PUD becomes null and void if:
 - (4) The Applicant shall abandon the plan or the Section thereof that has been finally approved, and shall so notify the Town; or

(5) Within 24 months of the date of approval of an application for Site Development Plan review, a complete application for Building Permit has not been submitted to the Town and a Building Permit issued; or

- (6) A final Certificate of Occupancy or Final Building Permit for all phases of the project has not been issued within three years from the date set for receipt of a complete application for Building Permit for the final building or development phase of the project.
- 5. A licensed surveyor shall verify the Lot Coverage and Non-Open Space calculations upon completion of the project. Certification of the calculations shall be signed and sealed on an as-built survey and submitted to the Town prior to completion of a final building inspection related to the building permit for the project.
- Approval of the proposed Site Development Plan shall be subject to payment of all staff review charges. Such charges shall be paid prior to issuance of Building Permit.
- 7. A Special Event Transportation Management Plan shall be required for special events on the site. The requirements of the plan will depend on the type and size of event. Some of the items that may be considered in the plan are:
 - (1) Site access and circulation
 - (2) Parking management:
 - i. Event parking pricing
 - ii. Off-site parking
 - iii. Other modes of transportation to reduce vehicular trips to the site
 - iv. Valet locations and operations
 - v. Rideshare drop-off and pick-up locations
 - vi. Disabled passenger drop-off and pick-up areas
 - (3) Public information
 - (4) Police control at intersections
 - (5) Signage
 - (6) Pedestrian management

Comprehensive Plan Evaluation

The project has been evaluated to ensure that the application is consistent with the Comprehensive Plan, and based on Final Site Development Plan review criteria set forth in Section 158.031(A). The following Comprehensive Plan Elements have been evaluated for consistency with the proposed project:

- Future Land Use (FLU) Element
- Recreation and Open Space (ROS) Element

COMPREHENSIVE PLAN, GOAL, OBJECTIVE AND POLICY

1. FLU Goal 1. To preserve and enhance the character of the Town of Longboat Key by the following: 1) ensuring that the location, density, intensity, and character of land uses are responsive to the social and economic needs of the community and are consistent with the support capabilities of the natural and manmade systems; and 2) maintaining an environment that is conducive to the health, safety, welfare, and property values of the community.

STAFF EVALUATION

The development of the site with enhanced recreational amenities that include a pavilion and stage is consistent with the goal of being responsive to the social and economic needs of the community. It also meets the second goal of FLU Goal 1 by providing walking paths and a great lawn that encourages a healthy lifestyle.

2. FLU Policy 1.1.13: Mixed Use Community (MUC).

The mixed use community (MUC) categories allow a mix of residential and nonresidential uses in planned communities developed through the planned unit development (PUD) procedures and standards of the LDC. The MUC categories encompass mixed use communities approved under prior adopted resolutions and ordinances of the Town Commission, which prior approved uses, densities and intensities are hereby recognized and affirmed. In each MUC, density is calculated on the basis of the average overall density of tourism and dwelling units per acre of all property included in the respective MUC. Clustered development patterns are encouraged and thus the density of separate parcels within each MUC may exceed the average overall density of the MUC category. No boundary of any existing MUC shall be expanded to include additional lands unless contiguous to the boundaries of the MUC as it existed as of December 31, 2010. Redevelopment may occur up to

the maximum densities designated

The development of the site with enhanced recreational amenities that include walking paths, a pedestrian bridge, and a stage is consistent with the purpose of the MUC district by staying within the allowable non-open space, providing for a mix of nonresidential uses, and providing expanded recreational amenities. The development also furthers the intent of the original entitlements for the property by advancing the Town Plaza, Phase II.

	COMPREHENSIVE PLAN, GOAL,	STAFF EVALUATION
	OBJECTIVE AND POLICY	
	herein and consistent with the public	
	health, safety and welfare, best quality	
	design, expanded recreational and open	
	space amenities, and adequate public	
	infrastructure and services. Within the	
	acreage allocated for nonresidential	
	uses, tourism units and associated	
	resort amenities, commercial/office uses,	
	and institutional uses must not exceed a	
	maximum lot coverage of 30 percent of a	
	project site per use, except an additional	
	10% of lot coverage per use may be	
	permitted through the PUD procedures	
	and standards of the LDC to improve the	
	design of the community and	
	functionality of the uses, as shown on	
	Table 1. Similarly, the standard height of	
	nonresidential structures in MUC-1 may	
	be increased by one story through the	
	PUD procedures and standards of the	
	LDC to improve the design of the	
	community and functionality of the uses, as shown on Table 1.	
3.	FLU Policy 1.4.1: The Town will	The proposed plan is implementing
٥.	encourage the realization of a vibrant	this Future Land Use Policy by the
	Town Center that includes the Town Hall	development of the Town Center
	and the public tennis complex area as	Green.
	well as commercial, office, institutional,	Green.
	residential and tourism uses. The Town	
	may maintain a Town Center zoning	
	overlay district within the MUC-1 future	
	land use category for the area depicted	
	on Figure 2. Within the Town Center	
	zoning overlay district, additional	
	nonresidential lot coverage up to 10%,	
	and additional nonresidential and	
	residential height up to one story may be	
	allowed through the Outline	
	Development Plan process to achieve a	
	compact, pedestrian-friendly, attractive	
	design supportive of mixed uses.	
	Residential uses are limited to	
	predominantly senior living communities	
	including but not limited to age-	

	COMPREHENSIVE PLAN, GOAL, OBJECTIVE AND POLICY	STAFF EVALUATION
	restricted, independent living senior communities. The zoning overlay district may also provide additional incentives for design flexibility and expedited permitting to encourage the development of a central place within the Town for civic and community life.	
4.	ROS (Recreation and Open Space) OBJECTIVE 1.2: Provide for recreational and cultural spaces and facilities.	The proposed Town Center Green is an additional cultural and recreational facility for the public's enjoyment.
5.	ROS Strategy 1.2.2.1: The minimum Level of Service for parks, recreational, and cultural facilities will be measured by the number of facilities and the following standard: 12 acres per 1,000 peak seasonal functional population. Table 1: 1 Cultural Center	The proposed Town Center Green is implementing the Level of Service of one cultural center by beginning the phases of the development. Phase 3 will include the construction of a cultural center.
6.	ROS Goal 2: Enhance the quality of the visual environment in the Longboat Key community, both natural and built.	The proposed Town Center Green is intended to enhance the visual quality of the surrounding area by providing enhanced walking paths and a pavilion and stage that was specifically designed for the site.

Attachments

- Owner's Application
- Ordinance 2023-03
- Site Development Plan Order 2023-01



TOWN OF LONGBOAT KEY

Public Works Department

600 General Harris Street Longboat Key FL 34228 (941) 316-1988 FAX (941) 316-1984 www.longboatkey.org

Incorporated November 14, 1955

January 4, 2023

Mrs. Maika Arnold, Senior Planner Town of Longboat Key 501 Bay Isles Road Longboat Key, FL 34228

Re: Site and Development Plan and Amendment to PUD/ODP Town of Longboat Key Town Center Project - **Narrative**

Dear Mrs. Arnold:

The following narrative provides a background to describe the Town Center development and the purpose of this amendment.

Background

The Town Center is located at 600 Bay Isles Road just north of Publix and Chase Bank. Over the course of 2014 and 2017, the Town invested a total of \$3.7 million to purchase three parcels of land totaling 4.81 acres that comprise the "Town Center." The Town has been developing the parcels using a three-phased approach:

- Phase 1 Initial Outdoor Venue (clearing and initial grading)
- Phase 2 Outdoor Venue and Stage
- Phase 3 Future Building Facilities through Partnership opportunities

Public feedback collected through workshops and various citizen's surveys have all demonstrated positive interest in the Town Center development. As such, the Town Commission's adopted 2022 Strategic Initiatives identifies two related goals:

- "Complete outdoor Town Center venue Phase 2 improvements, including stage"
- "Advance concept of a community center with a public library, adult education, and a multipurpose space on the south parcel at Town Center..."

The Town has invested further in the property by funding and conducting concept planning, demolition of the Amore' restaurant, design and construction of Outdoor Venue Phase 1, and also Phase 2 design. These costs total over \$850,000. The Town received a \$400,000 grant from Sarasota County to offset some of these costs.



TOWN OF LONGBOAT KEY

Public Works Department

600 General Harris Street Longboat Key FL 34228 (941) 316-1988 FAX (941) 316-1984 www.longboatkey.org

Incorporated November 14, 1955

Phase 1 Initial Outdoor Venue is complete.

Phase 2 Outdoor Venue and Stage construction is now in progress. The Town is under contract with Jon F. Swift for \$2,227,368.31 million for the construction work, including a privately-funded outdoor pavilion (stage). Phase 2 also includes elevating grades and adding walkways, landscaping, lighting, and expanding the stormwater management area.

Phase 3 is to be developed in the future. Conceptually, phase 3 includes the development of community building facilities to serve as additional amenities to be operated, programmed, managed, and maintained through a multi-party public-private partnership with public, private and donor funding.

The Town Center Master Plan includes two potential buildable areas. The southern building pad is currently being considered for development. As noted in the strategic goal statement, uses are typical of a community center. The Town Commission has decided that buildings may be single story or two story, and can be in a campus like setting that may include connecting breezeways, as applicable. Sarasota County has programmed funding to begin architectural design and charettes for the library component.

Purpose of the Outline Development Plan Amendment

The Town, as property owner and applicant, is seeking to revise the Bay Isles Planned Unit Development to entitle land uses sanctioned by the Town Commission and to approve an updated plan for the site generally referred to as the "Town Center." A portion of the town Center site was last amended by Ordinance No. 2012-03, which was approved on February 6, 2012 with an Outline Development Plan that explicitly eliminated all allowable uses from a 2.81-acre portion of the site. This 2.81-acre area is part of the overall 4.81-acre Town Center area purchased by the Town and lies west of the existing parking lot and former Amore' restaurant.

It is the intent of the Town of Longboat Key to pursue this Outline Development Plan amendment establishing the following broad uses on the entire site:

- Public parks and recreation areas, Open Space
- Government Buildings and Services
- Continuing Education and Civic Centers
- Non-Profit Cultural Centers
- Accessory uses to the above

The existing Mixed-Use Community – Bay Isles District (MUC-1) zoning designation allows for Parks and Recreation as well as Government Buildings and Services as permitted uses with Site Development Plan review [158.075(B)].



TOWN OF LONGBOAT KEY

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The Town initiated a companion zoning text amendment to allow "INS" (Community Facility Institutional District) land uses within the MUC-1 district to accommodate all of the Town intended uses that have been endorsed by the Town Commission.

The overall intent of the Town is to develop the site into a Town Center park with an outdoor performance pavilion and a future community building(s).

Please feel free to contact our department if you need further assistance at (941) 316-1988.

Sincerely,

Isaac Brownman
Public Works Director

Attachment: Town Center Master Plan



Planning, Zoning & Building Department

501 Bay Isles Road

Longboat Key, Florida 34228 Fax Number: (941) 373-7938

Web: http://www.longboatkey.org

(941) 316-1966

APPLICATION FOR OUTLINE DEVELOPMENT PLAN

Date:		New	Revised
	A. Prop	erty Informatio	on
Name of Development:	wn Center Greer	n	
Site Location: 27deg. 2	2' 08.28"N 82de	g. 37 27.49"W'	
Site Address: 600 Bay Isle	s Road		
Zoning District: MUC-1	Sq. Ft. of S	lite*: 209,490	% Open Space: <u>82.41</u>
*minimum 10 acres contiguou districts (See Division 1) (Pla			
Existing Use(s) of Subject Pro Open Space Recreational use	• • •	int, residence, comm	nercial, etc.)
Surrounding Land Use(s) (i.e.			
			Road Right of Way
b. South: <u>Commercia</u>			
			ch separate sheet if necessary)
Open Space recreational wit	h a Proposed St	age, Passive and Acti	ve Recreation, Future Public
Buildings for Education and	Recreation		
	······································		
			5



B. Names/Addresses

List all person(s) having ownership in subject property

1.	Name of Property Owner: <u>Town of Longboat Key</u>				
	Address: 501 Bay Isles Rd				
	City, State & Zip: Longboat Key, FL, 34228				
	Telephone: 941-316-8711				
	Telephone 2: 941-316-1988				
2.	Name of Property Owner:				
	Address:				
	City, State & Zip:				
	Telephone:				
	Telephone 2:	Mobile:			
3.	Name of Property Owner:				
	Address:				
	City, State & Zip:				
	Telephone:	Fax:			
	Telephone 2:	Mobile:			
4.	Name of Agent: <u>Charles Mopps</u> (Agent is person who has been appointed by the prope				
	Name of Company: Town of Longboat Key, Public Works				
	Address: 600 General Harris St				
	• • • • • • • • • • • • • • • • • • • •				
	Telephone: 941-316-1988	Fax: <u>941-316-1982</u>			
	Telephone 2:	Mobile:			



5.	Name of Engineer: <u>John Pari</u>	
	Name of Company:DMK Associates	
	Address: 421 Commercial CT, STE C	
	City, State & Zip: Venice FL 34292	
	Telephone: 941-412-1293	_ Fax:
	Telephone 2:	_ Mobile:
6.	Name of Architect: Chris Gallagher	
	Name of Company: Hoyt Architects	
	Address: 1527 Second St	
	City, State & Zip: Sarasota, FL 34236	
	Telephone: 941-366-6066	_ Fax:
	Telephone 2:	_ Mobile:
	Phillip I Smith	
7.	Name of Landscape Architect: Phillip J Smith	
	Name of Company: <u>David W. Johnston Associates</u>	
	Address: 630 S. Orange Ave STE 202	
	City, State & Zip: Sarasota FL 34236	
	Telephone: 941-366-3159	_Fax:
	Telephone 2:	_ Mobile:

UNLESS OTHERWISE NOTED, ALL WRITTEN CORRESPONDENCE WILL BE

TO THE PROPERTY OWNER(S).

MAILED TO THE AGENT. IF THERE IS NO AGENT, COMMENTS WILL BE SENT

NOTE:

RECEIVED

Town of Longboat Key Planning, Zoning & Building 10/06/2022 3:30 PM

C. Required Information

The following information (Section 158.067 of the Town Code) is required for processing of your application. If you mark any items as "N/A", please provide an explanation, on a separate sheet, the reasons why the requested items do not apply:

(a)	The relationship of the site to existing development in the area, including streets, utilities residential and commercial development, and important physical features in and adjoining the project, including ecological features. Information included:yesnoN/A
(b)	The approximate location and dimensions of all boundary lines of the development, and of any contiguous lands, including those separated only by a street, canal, or similar feature, in which the developer or property owner presently has any legal interest. Information included:yesnoN/A
(c)	Verified statement, including a certificate of ownership, showing each and every individual person having a legal ownership interest in the subject property except publicly held corporations whose stock is traded on a nationally recognized stock exchange, in which case the name and address of the corporation and principal executive officers will be sufficient. Information included:yesnoN/A
(d)	The approximate location, nature and extent of all existing easements, streets, buildings land uses, zoning, tree groupings, watercourses and topographic contours (i.e., at sixinch intervals with reference to mean sea level), on the site; the existing zoning and land use for all contiguous property; and flood protection elevation data and flood zones delineated, if applicable. Information included:yesnoN/A
(e)	Tabulations by acreage and percentage as to the amount of the site that is uplands and wetlands, indicating those wetlands landward and seaward of the mean high-water line (MHWL). Additional related information shall include the extent and type of wetlands in accordance with the town's Comprehensive Plan. Information included:
(f)	The approximate locations, intensity and acreages of general lands uses (proposed), including dwelling types and general types of nonresidential uses, open spaces, recreational facilities, and other proposed uses. Information included:yesnoN/A



(g)	A traffic impact analysis shall be provided standards is not exceeded before capacity addition, a circulation facilities plan indical proposed streets and pedestrian walks, ecurb cuts, driveways, off-street parking are surfaces available for maneuvering.	y-related improvements a iting approximate location mergency vehicle access	are implementens and types of points, including street vehicular	d. In ng all
	•	momation meladed.	_ yesno	
(h)	Total project acreage and proposed dens number of dwelling units by type.	ities for each dwelling un		
(i)	Floor area ratios for all land uses and appropriate and appropriate and suildings by general type (od commercial,	etc.)
(j)	Proposed development schedule indicating for the entire project and any phases there description of such phases.			
	l description of such phases.	Information included:	yesno _	N/A
(k)	Such additional data, maps, plans or statuses or activity involved.	·	·	
		Information included:	no	N/A
(1)	Such additional data, as the applicant ma	ay believe is pertinent to t Information included:	he developmen yesno _	t plan. N/A
(m) ⁻	Such additional material and information	the town may reasonably Information included:	require. _yesno _	N/A
(n)	A written statement by the landowner or a the land, describing fully the character an and setting forth the reasons why, in thei in the public interest and would be consist planned unit development.	nd intended use of the pla r opinion, a planned unit o	inned unit deve development we ement of purpos	lopment ould be ses on
(o)	A statement specifically indicating depart ordinances which would otherwise be appreciated by the town hardship which might exist making the despecific statement of how the departures more of the stated purposes of the planna 158.065.	plicable to the project if a vn and a clear and specif eparture from the code ne are necessary or desirab	planned unit ic statement of ecessary or a cl ble to accomplis	any ear and h one or
		Information included:	_yesno _	N/A
		No	DEPARTURES	RECEIVED
			JB.	Planning, Zoning & Building 10/06/2022 3:30 PM CCT. 2022

provisions of laws and ordinances governing the subject type of developme specified herein or not, the granting of a permit does not presume to give provisions of any other federal, state or local law regulating construction or the Applicant's Signature: (If applicant is not the property owner, a property owner affidavit will be required)	ent will be complied with whether authority to violate or cancel the e performance of construction.
Charles Mopps (Please print or type name)	
(Please print or type name)	
FOR STAFF USE ONLY	
Application Fee: \$\frac{\$ 3000.00 \text{ deposit*}}{\text{Application fee of \$275 will be deducted from deposit)}} Receipt #	
Application and Plans Accepted By:	Date:
File Code/Number:	

*Deposit required at time of formal submission

At the conclusion of your plan review by the Town, you will be billed for additional staff time, Town Attorney cost, cost of advertising, and any other miscellaneous costs incurred with the processing of your application(s). Costs will be deducted from initial deposit. If costs exceed the initial deposit, you will be billed for the remaining costs incurred; or you will be refunded the unused portion of the deposit.





Property Record Information for 0006130017

Ownership:

TOWN OF LONGBOAT KEY

501 BAY ISLES RD, LONGBOAT KEY, FL, 34228-3142

Situs Address:

600 BAY ISLES RD LONGBOAT KEY, FL, 34228

Land Area: 122,370 Sq.Ft.

Municipality: Town of Longboat Key

Subdivision: 3124 - BAY ISLES UNIT 12

Property Use: 8210 - Parks - Community

Status OPEN

Sec/Twp/Rge: 08-36S-17E

Census: 121150008022

Zoning: PD - PLANNED DEVELOPMENT DISTRICT

Total Living Units: 0

Parcel Description: LOT 2, SUBJ TO 5558 SF SIDEWALK ESMT TO TOWN OF LONGBOAT KEY AS DESC IN ORI 2012035928, BAY ISLES UNIT 12, CONTAINING 2.81 AC M/L

Buildings

Vacant Land

Extra Features

There are no extra features associated with this parcel

Values

2016	017	018	2019	2020	2021	2022	<u>Year</u>
						\$1,787,000	
\$0	\$0	\$0	\$0	\$0	\$0	\$0	Building
\$0	\$0	\$0	\$0	\$0	\$0	\$0	Extra Feature
\$1,140,400	\$1,140,400	\$1,560,200	\$1,787,000	\$1,787,000	\$1,787,000	\$1,787,000	Just
\$1,140,400	\$1,140,400	\$1,254,440	\$1,379,884	\$1,517,872	\$1,669,659	\$1,787,000	Assessed
\$1,140,400	\$1,140,400	\$1,254,440	\$1,379,884	\$1,517,872	\$1,669,659	\$1,787,000	Exemptions
\$0	\$0	\$0	\$0	\$0	\$0	\$0	<u>Taxable</u>
\$0	\$0	\$305,760	\$407,116	\$269,128	\$117,341	\$0	Cap.

https://www.sc-pa.com/propertysearch/parcel/details/0006130017

Year

Land

Building

Extra Feature

Just

2015 2014 2013

\$1,086,700 \$1,086,700

\$ \$ \$

\$0 \$0

\$1,086,700 \$1,086,700

> \$1,086,700 Assessed

Exemptions \$1,086,700 \$436,894

> Taxable 8

\$592,800

\$592,800 \$652,080

\$215,186 \$592,800

\$592,800

RECEIVED Town of Longboat Key Planning, Zoning & Building	\$0	\$0 \$434,620	Cap 🔘	
Planning, Zoning & Building	[®] R∣	ECE	IVED	
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Current Exemptions

2015	Grant Year
\$1,787,000.00	<u>Value</u>

Sales & Transfers

4/17/2008	5/2/2014	Transfer Date
\$100	\$1,508,000	Recorded Consideration
2008058590	2014052214	Instrument Number
⇉	02	Qualification Code
	BAY ISLES ENCLAVE ACQUISITION LLC	Grantor/Seller
CŢ	WD	Instrument Type

Associated Tangible Accounts

There are no associated tangible accounts for this parcel

Property record information last updated on: 10/4/2022

Different portions of a property can be in different flood zones. Please click on MAP link below to see the flood zones. FEMA Flood Zone (Data provided by Sarasota County Government as of 7/5/2022)

0126F	FIRM Panel
OUT	Floodway
Z	SFHA ***
ΑE	Flood Zone **
125126	Community
10	Base Flood Elevation (ft)
TUO	CFHA *

^{*} If your property is in a SFHA or CFHA, use the map to determine if the building footprint is within the flood area.

** For more information on flood and flood related issues specific to this property, call (941) 316-1966

^{***} Federal law requires flood insurance for all properties in SFHAs with federally backed mortgages. For general questions regarding the flood map, call (941) 861-5000.



10/5/22, 10:45 AM

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3:30 PM



Property Record Information for 0006130018

Ownership:

TOWN OF LONGBOAT KEY

501 BAY ISLES RD, LONGBOAT KEY, FL, 34228-3142

Situs Address:

600 BAY ISLES PKWY LONGBOAT KEY, FL, 34228

Land Area: 71,874 Sq.Ft.

Municipality: Town of Longboat Key

Subdivision: 3124 - BAY ISLES UNIT 12

Property Use: 8000 - Vacant government land

Status OPEN

Sec/Twp/Rge: 08-36S-17E

Census: 121150008022

Zoning: PD - PLANNED DEVELOPMENT DISTRICT

Total Living Units: 0

Parcel Description: LOT 3, BAY ISLES UNIT 12, CONTAINING 1.65 AC M/L

Buildings

Vacant Land

Extra Features

,	line #
0	Building Number
Concrete paving	Description
33000	Units
SF	<u>Unit Type</u>
1985	Year

Values

2015	016	2017	2018	2019	2020	2021	2022	Year
\$756,800	\$794,200	\$794,200	\$1,221,900	\$1,191,000	\$1,191,000	\$1,191,000	\$1,191,000	Land
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	Building
\$44,600	\$50,900	\$49,900	\$48,900	\$61,500	\$60,100	\$58,800	\$57,500	Extra Feature
\$801,400	\$845,100	\$844,100	\$1,270,800	\$1,252,500	\$1,251,100	\$1,249,800	\$1,248,500	<u>Just</u>
\$801,400	\$845,100	\$844,100	\$1,270,800	\$1,252,500	\$1,251,100	\$1,249,800	\$1,248,500	Assessed
\$0	\$0	\$633,075	\$1,270,800	\$1,252,500	\$1,251,100	\$1,249,800	\$1,248,500	Exemptions
\$801,400	\$845,100	\$211,025	\$0	\$0	\$0	\$0	\$0	Taxable
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	Cap_ 🗇

Year

Land

Building

Extra Feature

\$ 8

\$46,300 \$45,400

\$803,100 \$802,200 Just

\$803,100 \$802,200

2014 2013

\$756,800 \$756,800

Assessed

Exemptions

\$0

\$803, \$802, Taxa

100	200	ble	
\$0	\$0	Cap 🕯	
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Town of L Planning, Zo			
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2017	Grant Year 🚭
\$1,247,100.00	Value

Sales & Transfers

5/14/2004	3/31/2017	Transfer Date
\$1,400,000	\$200,000	Recorded Consideration
2004093454	2017039619	Instrument Number
2	18	Qualification Code
TOWN PLAZA 2 INVESTMENT LTD,	ROOKS HOWARD	Grantor/Seller
WD	WD	Instrument Type

Associated Tangible Accounts

There are no associated tangible accounts for this parcel

Property record information last updated on: 10/4/2022

Different portions of a property can be in different flood zones. Please click on MAP link below to see the flood zones. FEMA Flood Zone (Data provided by Sarasota County Government as of 7/5/2022)

FIRM Panel

Floodway

SFHA *** Z

Flood Zone **

Community 125126

Base Flood Elevation (ft)

CFHA * TUQ

5

0126F

For general questions regarding the flood map, call (941) 861-5000.



^{*} If your property is in a SFHA or CFHA, use the map to determine if the building footprint is within the flood area.

** For more information on flood and flood related issues specific to this property, call (941) 316-1966

^{***} Federal law requires flood insurance for all properties in SFHAs with federally backed mortgages.



Property Record Information for 0006130007

Ownership:

TOWN OF LONGBOAT KEY

501 BAY ISLES RD, LONGBOAT KEY, FL, 34228-3142

Situs Address:

600 BAY ISLES PKWY LONGBOAT KEY, FL, 34228

Land Area: 15,246 Sq.Ft.

Municipality: Town of Longboat Key

Subdivision: 2271 - BAY ISLES UNIT 09

Property Use: 7000 - Vacant Institutional Land

Status OPEN

Sec/Twp/Rge: 08-36S-17E

Census: 121150008022

Zoning: PD - PLANNED DEVELOPMENT DISTRICT

Total Living Units: 0

Parcel Description: PARCEL C, BAY ISLES, UNIT 9

Buildings

Vacant Land

Extra Features

-3	line#
0	Building Number
Concrete block wall	Description
89	<u>Units</u>
SF	<u>Unit Type</u>
1986	<u>Year</u>

Values

2015)16	017	2018	2019	2020	2021	2022	<u>Year</u>
							\$330,400	
\$656,900	\$655,600	\$787,200	\$551,200	\$571,200	\$0	\$ 0	\$0	Building
\$3,500	\$3,900	\$3,900	\$3,700	\$4,800	\$400	\$400	\$500	Extra Feature
\$820,900	\$828,000	\$959,600	\$814,100	\$906,400	\$330,800	\$330,800	\$330,900	<u>Just</u>
\$820,900	\$828,000	\$959,600	\$814,100	\$895,510	\$330,800	\$330,800	\$330,900	Assessed
\$0	\$0	\$719,700	\$814,100	\$895,510	\$330,800	\$330,800	\$330,900	Exemptions
\$820,900	\$828,000	\$239,900	\$0	\$0	\$0	\$0	\$0	Taxable
\$0	\$0	\$0	\$0	\$10,890	\$0	\$0	\$0	Cap_ 🚭

Exen	nptions \$0	Inptions Taxable \$0 \$207,556 \$0 \$393,100
	Exemptions \$0	} <mark></mark> ⊠

\$185,844 Cap

3:30 PM

Current Exemptions

2017	Grant Year
\$330,800.00	<u>Value</u>

Sales & Transfers

Transfer Date	Recorded Consideration	Instrument Number	Qualification Code	Grantor/Seller	Instrument Type
3/31/2017	\$2,000,000	2017039618	18	CAVALIER INVESTMENTS 1 INC	WD
8/31/2004	\$1,210,000	2004171108	2	TERRACE AUTO SUPERCENTER INC,	WD
1/1/2003	\$913,800	2003117639	2	PLAZA PROPERTIES LTD,	WD
8/31/1999	\$850,000	1999119729	91	GRAHAM J W,	WD
2/1/1986	\$100	1836/2887	1		NA
•					

Associated Tangible Accounts

There are no associated tangible accounts for this parcel

Property record information last updated on: 10/4/2022

FEMA Flood Zone (Data provided by Sarasota County Government as of 7/5/2022) Different portions of a property can be in different flood zones. Please click on MAP link below to see the flood zones. FIRM Panel Floodway SFHA *** Flood Zone ** Community Base Flood Elevation (ft) CFHA *

Z

125126

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PLOO

0126F

^{***} For more information on flood and flood related issues specific to this property, call (941) 316-1966
*** Federal law requires flood insurance for all properties in SFHAs with federally backed mortgages. For general questions regarding the flood map, call (941) 861-5000.



^{*} If your property is in a SFHA or CFHA, use the map to determine if the building footprint is within the flood area.

10/5/22, 10:45 AM







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MINUTES LONGBOAT KEY TOWN COMMISSION VIRTUAL REGULAR MEETING MAY 4, 2020

Present:

Mayor Ken Schneier

Participating by

Remote Access: Vice Mayor Mike Haycock, Commissioners B.J. Bishop, Jack Daly,

Sherry Dominick, George Spoll, Ed Zunz

Also Present:

Town Manager Tom Harmer, Town Clerk Trish Shinkle. Information

Technology Director Jason Keen, Deputy Town Clerk Savannah Schield

Also Participating by

Remote Access: Town Attorney Maggie Mooney

Call to Order, Roll Call, and Pledge of Allegiance

Mayor Schneier called the May 4, 2020, Virtual Regular Meeting to order at 1:00 p.m. in the Town Commission Chamber, Town Hall, 501 Bay Isles Road, Longboat Key, Florida. Mayor Schneier advised that the following Commissioners were in attendance through remote access: Haycock, Bishop, Daly, Dominick, and Zunz and advised that a quorum of six were in attendance.

Mayor Schneier noted the Town's Civility Policy and read the Pledge of Public Conduct.

Mayor Schneier noted Executive Order Nos. 20-69 (March 20, 2020) and 20-112 issued by Governor Ron DeSantis and effective on May 4, 2020, providing for the continuation of holding remote meetings utilizing media communication technology.

Mayor Schneier advised of an attendance roll call by the Town Clerk, noted a quorum, and led the Pledge of Allegiance.

Mayor Schneier advised that Commissioner Spoll was absent due to a medical issue.

Approval of Virtual Meeting Protocols and Process

Following the Pledge of Allegiance, Town Manager Tom Harmer reviewed the procedures and the protocols for the virtual meeting.

Mayor Schneier requested and Commissioner Bishop moved to accept the virtual meeting protocols and approve the developed process. The motion, seconded by Commissioner Dominick, carried by a 6-0 roll call vote, as follows: Bishop, aye; Dominick, aye; Schneier, aye; Haycock, aye; Daly, aye; Zunz, aye.

Public to be Heard*

- 1. Opportunity for Public to Address Town Commission
- A. Public Comment to address issues not on the agenda. No items were presented.
- B. Public Comment all other agenda items except public hearings. No items were presented.
- *Virtual public participation instructions were provided as in attachment to the agenda.

Reports

2. COVID-19 Report

The Town Manager will brief Commissioners on the Town's response to the COVID-19 pandemic. Recommended Action: None, informational only.

Town Manager Tom Harmer provided an update on the Town's response to the COVID-19 pandemic and an overview of the Sarasota and Manatee County statistics.

Mr. Chuck Henry, Florida Department of Health Public Health Official for Sarasota County, commented on the Town and Longboat Key citizen's response in following the CDC (Center for Disease Control) guidelines resulting in a low percent of positive cases, increased testing for the area, encouraged residents to continue following the guidelines, and reviewed the antibody testing that is taking place. Discussions were held on the following topics/issues:

- steps being taken on the elder facilities in Sarasota and Manatee Counties with the high mortality rates
- actions being taken by Sarasota and Manatee Counties in reopening facilities
- increased risk with counties opening recreational facilities/overflow onto Longboat
- importance of wearing masks in public where social distancing is difficult
- percentage of deaths/downward trend on positive cases/at risk population
- reopening of the Town's Tennis Center/health testing options
- number of testing accomplished/percentage of positive testing
- options for conducting a test site on Longboat Key.

Resolution and Public Hearing*

3. Resolution 2020-09, Solid Waste Franchise Agreement, Annual Service Rate Adjustment

The Town's Solid Waste Franchise Agreement with Waste Management, Inc. provides for an annual adjustment of the collection fee per a formula set within the Agreement. The 2020 calculated fee adjustment is a total monthly unit cost increase from \$15.24 to \$15.85 and is established in Resolution 2020-09. Recommended Action: Pass Resolution 2020-09.

Town Clerk Trish Shinkle place Resolution 2020-09 on record by title only.

Commissioner Bishop moved to pass Resolution 2020-09. The motion was seconded by Commissioner Dominick.

Mayor Schneier opened the public hearing.

Town Manager Tom Harmer provided an overview of the annual adjustment of collection fees under the Solid Waste Franchise agreement.

Upon inquiry, Town Manager Harmer commented on the option to add or modify services during the contract renewal period. Individual comments followed.

Public Works Director Isaac Brownman commented on the increase in tipping fees for yard waste.

Following comments from Town Attorney Maggie Mooney, Mayor Schneier advised that no requests to speak had been received.

Mayor Schneier closed the public hearing.



3. Resolution 2020-09, Solid Waste Franchise Agreement, Annual Service Rate Adjustment

The motion carried by a 6-0 roll call vote, as follows: Bishop, aye; Dominick, aye; Zunz, aye; Daly, aye; Haycock, aye; Schneier, aye.

Consent Agenda

The purpose of the Consent Agenda is to expedite those items on an agenda that appear to be of a routine nature. Any item on the Consent Agenda can be removed from the Consent Agenda and placed on the Regular Agenda by any member of the Town Commission without having to make a motion, receive a second, or submit to a vote; otherwise, all items on the Consent Agenda are voted upon in their totality by one action (motion, second and vote) and are not subject to discussion. A vote in the affirmative on the Consent Agenda is a vote of confirmation to the action noted in each item.

- 4. Approval of Minutes
- March 23, 2020, Statutory Meeting; April 6, 2020, Regular Meeting Minutes. Recommended Action: Approve Minutes
- 5. Resolution 2020-10, Authorization to Execute Florida Department of Transportation (FDOT) Agreement ASH09 for Gulf of Mexico Drive (GMD) Highway Lighting Maintenance Resolution 2020-10, is required by FDOT to continue the Town's established practice of maintenance of street lighting along GMD, provides for compensation to the Town, and other State requirements. Recommended Action: Pass Resolution 2020-10.

Vice Mayor Haycock moved to approve the Consent Agenda items 4 and 5 in accordance with Staff's report and confirming the recommended action. The motion, seconded by Commissioner Dominick carried by a 6-0 roll call vote, as follows: Haycock, aye; Dominick, aye; Daly, aye; Zunz, aye; Schneier, aye; Bishop, aye.

New Business

6. Outdoor Venue and Future Town Center Update

Staff will update the Commission on the current construction of the Phase 1 outdoor venue improvements, present summary results from public outreach, and next steps for developing Phase 2. Gary Hoyt, of Hoyt Architects will participate by virtual connection to present an overall concept plan for the property. Recommended Action: Approve concept plan and proceed with planning for Phase 2 of the outdoor venue.

Public Works Director Isaac Brownman, Mr. Gary Hoyt (via Zoom), and Mr. Chris Gallagher (via Zoom) gave a PowerPoint presentation on the construction progress and the overall concept plan for the property. Discussions were held on the following topics/issues:

- project budget
- balance in Land Acquisition fund
- timeframe for completion
- · parking requirements/availability of neighboring sites
- stormwater retention area/consideration of water feature
- ditch behind stormwater retention area
- estimated costs for proposed Hoyt plan
- items included in the Phase 2 planning
- incremental costs to maintain site/increase in operational budget.



6. Outdoor Venue and Future Town Center Update

Subsequent to comments, Commissioner Bishop moved to approve the Concept Plan and to proceed with the planning for Phase 2 of the outdoor venue. The motion, seconded by Commissioner Daly carried by a 6-0 roll call vote, as follows: Bishop, aye; Daly, aye; Zunz, aye; Schneier, aye; Dominick, aye; Haycock, aye.

RECESS: 3:13 p.m. - 3:23 p.m.

Approval of Virtual Meeting Protocols and Process

Mayor Schneier requested that Commissioners wishing to speak utilize the "hand raise" on the Zoom platform.

7. Fourth Amendment to Lease with Longboat Library, Inc.

The Longboat Library Lease expires on June 15, 2021, and has a requirement for a 1-year notice of changes or termination. The Fourth Amendment to the Longboat Library Lease provides for extending the term of the agreement for 3 years and adds a 90-day notice option for transition to Sarasota County Library services. Recommended Action: Approve Fourth Amendment to Longboat Library, Inc., Lease and authorize the Town Manager to execute the Agreement.

Town Manager Tom Harmer thanked Ms. Mary Baker, Longboat Library, on her participation in the process for establishment of a future library in the Town Center and commented on the proposed amendment to the current lease with revisions made this date. Support Services Director Carolyn Brown displayed proposed revisions to the fourth amendment to the Longboat Library lease.

Commissioner Bishop moved to approve the fourth amendment to the Longboat Library lease, as amended. The motion, seconded by Commissioner Dominick, carried by a 6-0 roll call vote, as follows: Bishop, aye; Dominick, aye; Schneier, aye; Haycock, aye; Zunz, aye; Daly, aye.

8. FY20 Budget Midyear Update

As of March 31, 2020, we have completed the first six months of FY20. The Town Manager and Finance Director will provide an update on year to date accomplishments and a financial overview of the FY20 Budget at the May 4, 2020, Regular Meeting. Recommended Action: None, informational only.

Town Manager Tom Harmer and Finance Director Susan Smith (participating telephonically) gave a PowerPoint presentation on the midyear Fiscal Year 2020 budget.

Town Commission Comments

A. Human Resources

Commissioner Bishop commented on the staff luncheon and inquired as to options for employees who were furloughed and Town Manager advised that all full-time employees had maintained their schedules and noted that the Tennis Center ended the season earlier than normal due to the pandemic.

B. Town Commission/Human Resources

Mayor Schneier encouraged residents to complete the 2020 census and commended the Police Department for their increased enforcement.

Town Attorney Comments

No items were presented.



Town Manager Comments

A. Organizations

Town Manager Tom Harmer commented on the Manatee County Tourist Development Council seeking an elected official for a voting seat and advised that Commissioner Zunz intended to apply.

Adjournment

Mayor Schneier adjourned the May 4, 2020, Virtual Regular Meeting at 4:10 p.m.

Trish Shinkle, Town Clerk

Minutes Approved: 6-1-2020

Kenneth Schneier, Mayor

MEMORANDUM

TO: Tom Harmer, Town Manager

FROM: Isaac Brownman, Public Works Director

REPORT DATE: April 24, 2020

MEETING DATE: May 4, 2020

SUBJECT: Outdoor Venue and Future Town Center Update

Recommended Action

Approve Concept Plan and proceed with planning for Phase 2 of the Outdoor Venue.

Background

The Town of Longboat Key adopted Core Expectations, which include maintaining and improving "the quality and variety of island-based recreational and educational opportunities..."

The Town is proceeding with the development and activation of the approximately 4.81-acre Townowned site located at 555 Bay Isles Road into an outdoor venue to support a variety of Town and community-wide events. The Town originally purchased three parcels that comprise the overall site in the total amount of \$3.7 million. The Town completed the demolition of the Amore' building in early 2019.

On June 3, 2019, and again on September 23, 2019, the Town Commission approved by consensus guiding principles for the development of the site. These principles are listed below:

- Activate the site as an outdoor venue
- Preserve a buildable area for a future community facility while maintaining as much of open venue as possible
- Utilize existing parking number and configuration, both for outdoor venue and future use (not minimize or reduce)
- Address slope variation and high water table (fill)
- Meet Southwest Florida Water Management District requirements for wetland mitigation and stormwater management
- Install basic electrical, water and sewer connections to facilitate temporary outdoor venue use
- Provide initial improvements within existing budget and Sarasota County Grant funding, to the extent feasible
- Advance public input for longer term improvements to the site

The initial outdoor venue improvements (Phase 1) are currently under construction. The funding for these improvements includes support from Sarasota County as well as funding from the Town's Land Acquisition Fund. The Town is under contract with Gator Grading and Paving. The construction notice-to-proceed was issued April 6, 2020; the contract calls for 90-days to substantial completion and 120-days to final completion. The contractor has completed clearing/grubbing and vegetation removal. The contractor is currently importing fill and site grading.

Beginning in January 2020, the Town engaged in gathering public input in the form of comment cards, an electronic "Survey Monkey," the first annual Citizens Survey, and also hosted a public workshop at Temple Beth Israel on March 11, 2020. A summary of the survey results is attached.

In addition, Hoyt Architects has produced preliminary concept plans and image concepts that depict further outdoor venue improvements and preserve buildable spaces for future facilities consistent with the guiding principles and the public feedback. Overall, Hoyt Architects recommends the following:

1. Town Center Outdoor Venue:

Hoyt recommends that the Town use the preliminary concepts as a basis for designs that can be advanced for further improvements at the Town Center, including:

- · Hard surface walkaways.
- Fixed shade structures.
- Fixed performance structure on the north (initially, could be a pad for a portable stage).
- Public restrooms on the south.
- Landscape master plan for trees, groundcover, and other plantings.
- Properly dimensioned space for 10 x 10 tents with provision for electric power (along the walkways and esplanade).
- Space for food trucks with provision for power and water (along the esplanade).
- Short and long term bike parking.

2. Community Center:

Hoyt recommends that further discussion regarding the details of an Arts/Cultural/Education and/or a relocated Recreation Center be postponed until improvements are made to the Town Center. However, possible pad site(s) for a potential Community Facility and/or Recreation Center should be part of the Town center planning process and the overall concept plan for the site. General themes to consider:

- Flexibility and multi-purpose (library arts/cultural/educational offerings, recreational opportunities, meeting space, display space, and food)
- Multi-generational
- Multi-modal

3. Key Concerns:

Hoyt recommends that each stage of the planning process address these three concerns:

- Timing (Will any of this get done in my lifetime?)
- Funding
- Parking

Hoyt will be presenting an overall concept plan for the property. It will include the proposed improvements to the Outdoor Venue as well as preserving buildable parcels for future buildings that could accommodate uses such as a cultural center, recreation center, and/or public library.



Next Steps

The staff is requesting approval of the overall concept plan of the property as recommended by Hoyt. Once the plan is approved, the staff will work on developing a Phase 2 project that would include the recommended amenities identified by Hoyt for the Outdoor Venue. We would evaluate those items in conjunction with available funding in the Land Acquisition Fund and develop a capital project for the Commission's consideration as part of the upcoming budget process.

The future facilities would continue to be a long-term goal. Those projects are currently un-funded but the Town would continue to look for opportunities to partner with private and other public sector entities. One example would be the longer term potential for a new County library use on the property that could either be free standing or as part of a multi-use building.

Staff Recommendation

Approve Concept Plan and proceed with planning for Phase 2 of the Outdoor Venue.

Attachments

- A. PowerPoint Presentation (Available in Town Clerk's Office)
- B. Public Input Summary (Available in Town Clerk's Office)
- C. Preliminary Concept Plans and Images (Available in Town Clerk's Office)







Town Outdoor Venue and Future Town Center

May 4, 2020 Regular Town Commission Meeting





Brief History

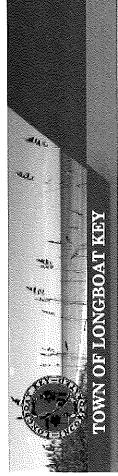
Initial Outdoor Venue Construction Progress

Hoyt Architects

· Summary of Public Input, Concept Plans, and Integrated Examples

Recommendations





Town Investment

Town purchased properties:

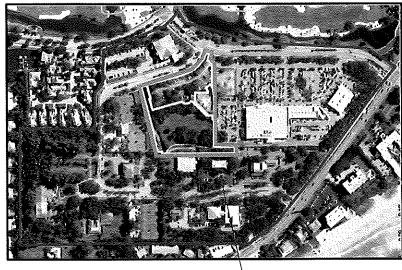
Bay Isles Enclave Acquisition, LLC May 5, 2014 (2.80-acres)

W. Howard Rooks March 31, 2017 (1.65-acres) Cavalier Investments I, Inc. March 31, 2017 (0.36-acres)

Total site area: 4.81 acres

Total land acquisition investment \$3.7 million





Town Center Area



Demolition and Restoration of Amore' upland 2019





Photos: Current conditions

Photo: Demolition by Forristal Enterprises, Inc.





June 3, 2019 Town Commission Special Meeting and Sept. 23, 2019 Regular Workshop

- Activate the site as an outdoor venue
- · Preserve a buildable area for a future community facility while maintaining as much of open venue as possible
- Utilize existing parking number and configuration, both for outdoor venue and future use (not minimize or reduce)
- Address slope variation and high water table (fill)
- Meet Water Management District requirements for wetland mitigation and stormwater management
- · Install basic electrical, water and sewer connections to facilitate temporary outdoor venue use
- Provide initial improvements within existing budget and grant funding, to the extent feasible
- Advance public input for longer term improvements to the site

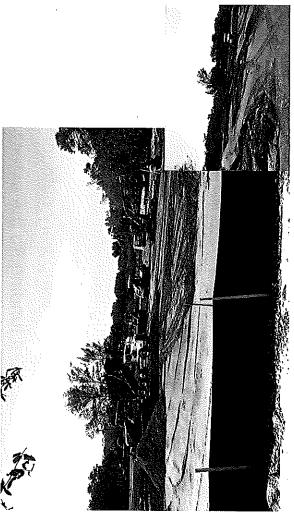


Initial Outdoor Venue - Phase

Gator Grading and Paving Construction Progress:

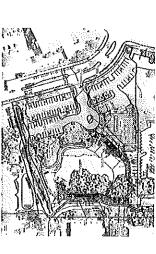
VONTAND REPORTED VIDEO

- Clearing & Grubbing
 - Removal of Material
- Import of Fill



Add shell pathways and sidewalks, water service and a wastewater connection Raise site out of floodplain and wetland while maintaining sloping character Remove nuisance, invasive and other vegetative species

Mill, base repair, and resurface entire parking lot







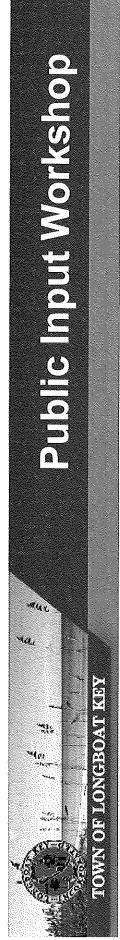


Civic spaces play a unique role in the community. The architect must understand and shape the larger civic realm: enabling, assembling, and enriching the community.

When a community has no central place to gather, it's a problem. Real time modeling brings activity centers to life and creates a better understanding of their complex interactions.

RECEIVED

Town of Longboat Key
Planning, Zoning & Building
10/06/2022 3:30 PM



March 11, 2020 Public Input Workshop

Hoyt Architects presented various alternative concepts for the proposed Town Center and distributed a survey.

Key topics presented and discussed:

- The questions of what, if any, further improvements should be made to the Town Center site.
 - Whether an Arts/Cultural/Education Center should be created at the Town Center.
- Whether the Town's Recreational Center should be moved from Bayfront Park to the Town Center site.
- In April, 2020 the Longboat Key Citizen Survey final report was published providing additional input on the Town Center and potential amenities.
- Additionally, the Town conducted a "Survey Monkey" to capture additional public input relating to the Town Center.



Survey Results: Outdoor Venue TOWN OF LONGBOAT KEY ";!;

Professional Recommendations	For those who have seen images of proposed options for the town center, most are generally positive about a central greenspace with flexible options for daily planned and unplanned activities. Hoyt recommends that designs be advanced for further improvements at the Town Center.	Of the Town Center concepts considered to date, all show a central greenspace for social activities and performances. Hoyt recommends that hard surface walkaways be provided for wet weather and for those who require flat walking surfaces. Further, Hoyt recommends that fixed shade structures be provided for shade and for unexpected rain showers.	To increase the options for spectator participation in Town Center activities, Hoyt recommends that designs for a fixed performance structure be included in the Town Center Planning. The stage should be located at the north end of the site to avoid midday and late afternoon glare in the eyes of spectators.	To increase user participation, encourage longer stays, and increase comfort for all age groups, Hoyt recommends that public restrooms are included in the Town Center plan. Rest rooms will generate high levels of use. They should not be located adjacent to the performance stage where their activity would distract from performances.
Positive Response	%28	%28	74%	87%
Survey Question to full time & seasonal residents	Would you support further improvements at the Town Center?	Walkways and shade structures?	Performance structure/stage?	Public Restrooms?



Survey Results: Outdoor Venue Cont. TOWN OF LONGEOAT KEY ***

те	Positive	Professional Recommendations
& seasonal residents More trees and landscaping?	Kesponse 67%	To improve the beauty, comfort, and attractiveness of the Town Center, Hoyt recommends that a landscape master plan be developed for the Town Center.
Farmers market?	74%	Downtown Sarasota boasts a very popular weekly farmers' market. Smaller weekly farmers' markets have been established in other local locations (Siesta Key Village, Phillippi Park, etc.) Hoyt recommends that any plans developed should include properly dimensioned space for 10 x 10 tents and that provision be made for required electric power.
Food trucks?	%09	Given the limited dining and food service options in close proximity to the Town Center, Hoyt recommends that space be allocated for food trucks and that power and water facilities be provided.
Bike racks?	%08	To increase transportation options and encourage multi-model trips, (for those who cannot, or choose not to drive) Hoyt recommends that generous provisions be made for short and long term bike parking and storage.
Car chargers?	40%	Though a smaller percentage responded positively to this suggestion, the number of electric car owners is expected to grow in the future. If car chargers are not installed with the phase of Town Center improvements, Hoyt recommends that provision be made for required electric power.



Survey Results: Arts, Culture & Education Center

TOWN OF LONGBOAT KEY		
Survey Question to full time Pr	Positive Professionse	Professional Recommendations
Would you support creating an Arts and Cultural Center at the Town Center?	Hoyt recommends that further center be postponed until impre 67% However, a possible pad site for Town center planning process.	Hoyt recommends that further discussion regarding the details of an ACE center be postponed until improvements are made to the Town Center. However, a possible pad site for a potential ACE should be part of the Town center planning process.
Art and/or music lessons?	As noted above, Hoyt r 54% details of an ACE cente Town Center.	As noted above, Hoyt recommends that further discussion regarding the details of an ACE center be postponed until improvements are made to the Town Center.
Writing, photography, languages?	As noted above, Hoyt r details of an ACE cente Town Center.	As noted above, Hoyt recommends that further discussion regarding the details of an ACE center be postponed until improvements are made to the Town Center.
Tech – Facebook, Skype, Twitter?	As noted above, Hoyt r details of an ACE center Town Center.	As noted above, Hoyt recommends that further discussion regarding the details of an ACE center be postponed until improvements are made to the Town Center.
Lifelong learning – travel, health?	As noted above, Hoyt r 54% details of an ACE cente Town Center.	As noted above, Hoyt recommends that further discussion regarding the details of an ACE center be postponed until improvements are made to the Town Center.
Performance – music, theater?	As noted above, Hoyt r details of an ACE cente Town Center.	As noted above, Hoyt recommends that further discussion regarding the details of an ACE center be postponed until improvements are made to the Town Center.



Survey Results: Recreation Center

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edine The second TOWN OF LONGEOAT KEY

Positive Response	Hoyt recommends that further discussion regarding the details of a Recreational Center at the Town Center be postponed until improvements are made to the Town Center. However, a possible pad site for a potential Recreational Center should be part of the Town center planning process.	As noted above, Hoyt recommends that further discussion regarding the details of a Recreational Center be postponed until improvements are made to the Town Center.	As noted above, Hoyt recommends that further discussion regarding the details of a Recreational Center be postponed until improvements are made to the Town Center.	As noted above, Hoyt recommends that further discussion regarding the details of a Recreational Center be postponed until improvements are made to the Town Center.	As noted above, Hoyt recommends that further discussion regarding the details of a Recreational Center be postponed until improvements are made to the Town Center.
Survey Question to full time Po & seasonal residents Res	Would you support moving the Town's Recreation Center from Bayfront Park to the Town Center?	Pickleball?	Shuffleboard?	Low impact: fitness, yoga, tai chi?	Meeting rooms?





Other key takeaways from the obtained public input:

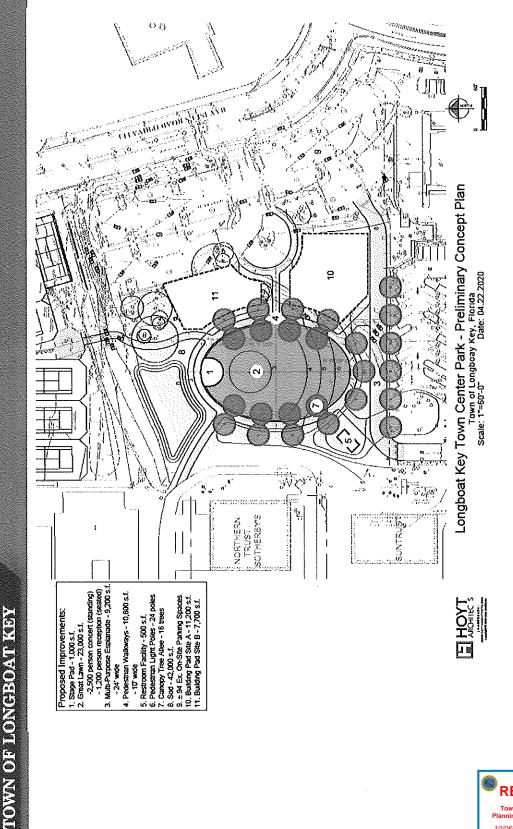
- resource materials, but would also provide meeting rooms for a variety of community store books – but a multi-purpose facility that would not include not only books and Several attendees were very positive about a modern library – not just a place to groups and activities and some kind of small food service offering.
- Some suggested the idea of a community center that would include a library, arts and cultural offerings, recreational opportunities, flexible meeting space, and food.
- Attendees stressed the need for flexibility and multi-purpose options for any proposed facilities. Several mentioned gallery space for displaying artwork.
- Other themes were multi-generational and multi-modal.





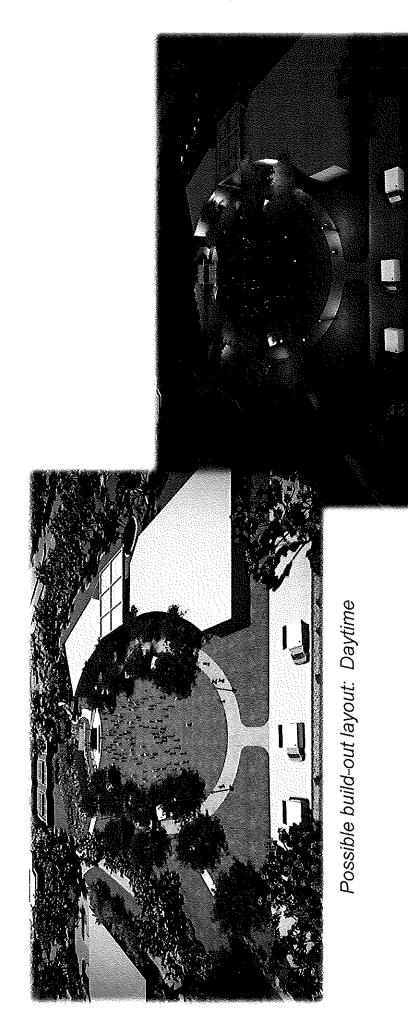


Site Diagram B





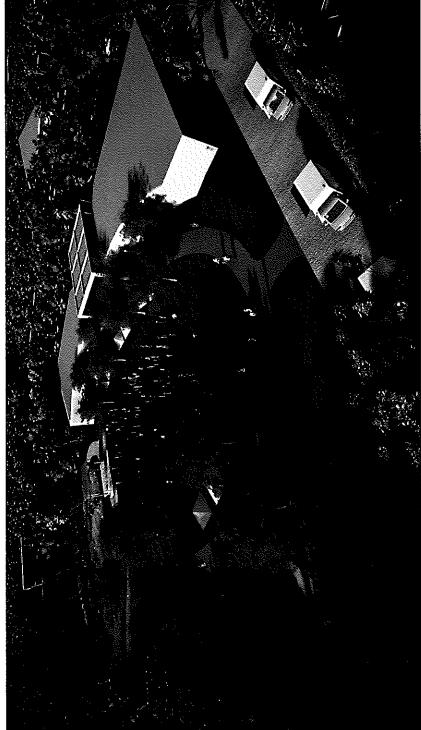
Presentation Concepts IVONWALOR IVON CHEONALII KADIT



Possible build-out layout: Nighttime lit



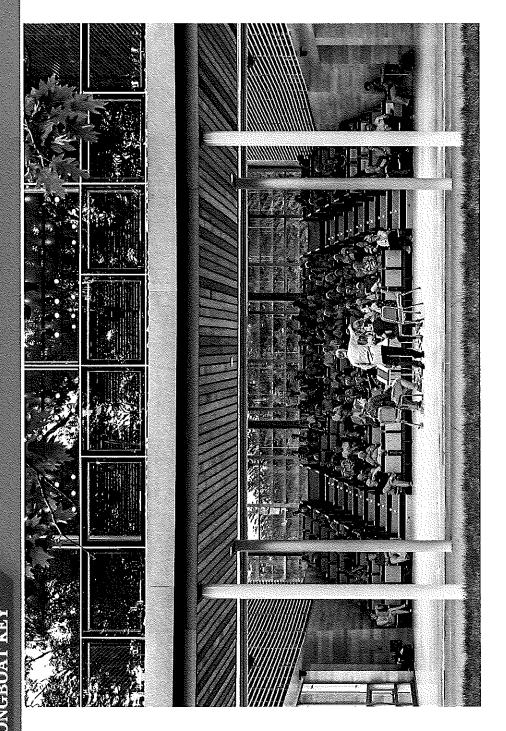
Presentation Concepts Cont.



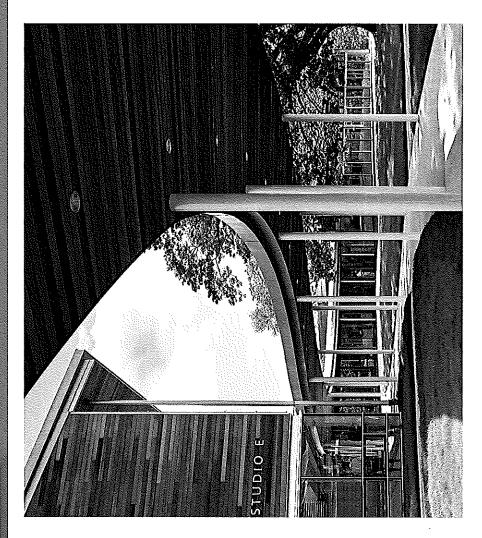








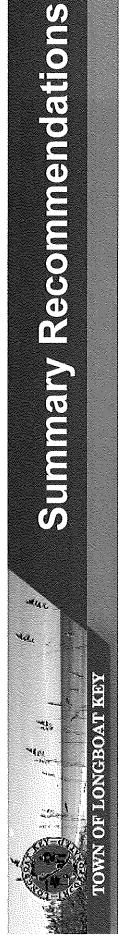












1. Town Center Outdoor Venue:

Hoyt recommends that the Town use the preliminary concepts as a basis for designs that can be advanced for further improvements at the Town Center, including:

- Hard surface walkaways.
- Fixed shade structures.
- Fixed performance structure on the north (initially, could be a pad for a portable stage).
- Public restrooms on the south.
- Landscape master plan for trees, groundcover, and other plantings.
- Properly dimensioned space for 10 x 10 tents with provision for electric power (along the walkways and esplanade)
- Space for food trucks with provision for power and water. (along the esplanade).
- Short and long term bike parking.





2. Community Center:

Hoyt recommends that further discussion regarding the details of an Arts/Cultural/Education and/or a However, possible pad site(s) for a potential Community Facility and/or Rec Center should be part of relocated Recreation Center be postponed until improvements are made to the Town Center. the Town center planning process. General themes to consider:

- Flexibility and multi-purpose (library arts/cultural/educational offerings, recreational opportunities, meeting space, display space, and food)
- Multi-generational
- Multi-modal



Summary Recommendations Cont. NOWN OF LONGISOAT KENY 416

3. Key Concerns:

Hoyt recommends that each stage of the planning process address these three concerns:

- Timing (Will any of this get done in my lifetime?)
- Funding
- Parking



Next Steps/Recommendations <u>NOVYNIORIKON GROVNIKADY</u>

- Staff recommends approval of the overall concept plan of the property as recommended by Hoyt.
- Once approved, staff will work on developing a Phase 2 project that would include amenities for the Outdoor Venue.
- Based on available budget
- Long-Term Goal: Future Facilities
- Currently un-funded, continue looking for opportunities to partner with private and other public sector entities.



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Longboat Key Town Center Contract Schedule R-01 10/06/2022

Start Date: Fri 6/10/22 Finish Date: Fri 6/21/24 Print Date: Thu 10/6/22

Town of Longboat Key Planning, Zoning & Building 10/06/2022 3:30 PM

CONSISTENCY WITH THE TOWN'S COMPREHENSIVE PLAN AND ZONING CODE

The proposed Longboat Arts, Culture and Education Center (Town Center Green) proposal is consistent with the Town's Comprehensive plan and all requirements of the zoning code. The subject property is designated as Mixed-Use Community (MUC) and is located within the MUC-1 Bay Isles Established Area. The MUC designation encourages a mix of uses.

Specifically, the proposed Center is located on the 4.8-acre Town owned site at the heart of the approximately 40-acre Longboat Key Town Center. The Center will help serve as the bub of resident connectivity through lifelong learning, community engagement and cultural activity.

Below are some specific Comprehensive Plan Objectives and Policies that are furthered by the development of the Center on the property.

FLU OBJECTIVE 1.6: To assist in redeveloping and revitalizing key areas of the Town in a sustainable, mixed-use pattern of development in order to support a continued recreation-oriented lifestyle for Town residents and visitors.

The Center will become a key feature and amenity for the residents and tourist complimenting the recreation-oriented lifestyle of the residents living in the Town and those coming to visit.

FLU Policy 1.6.1: The Town may encourage the realization of a vibrant Town Center that includes the Town Hall and the public tennis complex area as well as commercial, office, institutional, residential, and tourism uses. The Town may maintain a Town Center zoning overlay district within the MUC-1 future land use category for the area depicted on Figure 2. Within the Town Center zoning overlay district, additional nonresidential lot coverage up to 10%, and additional nonresidential and residential height up to one story may be allowed through the Outline Development Plan process to achieve a compact, pedestrian-friendly, attractive design supportive of mixed uses. Residential uses are limited to predominantly senior living communities including but not limited to age-restricted, independent living senior communities. The zoning overlay district may also provide additional incentives for design flexibility and expedited permitting to encourage the development of a central place within the Town for civic and community life.

The Center will be a catalyst for the realization of a vibrant Town Center creating other redevelopment opportunities and activity in the area.

FLU POLICY 1.6.3: The Town may provide fiscal incentives to the revitalization of the Town Center and Whitney Beach areas as available and appropriate. These incentives may include, but are not limited to, infrastructure or landscaping improvements, public street abandonment, and public transportation access that support a sustainable development pattern.

The Town's financial support for the project will ensure that the Center is successful to see the vision become reality.

CCM Policy 1.2.2: Consistent with Future Land Use Element Policy 1.2.2, new development and redevelopment shall not be allowed within freshwater or saltwater wetlands except where a compelling public interest can be demonstrated.

The development will not be impacting any freshwater or saltwater wetlands.

ROS Policy 1.2.4: Acquire, improve, and maintain lands for open space, park, recreational, and cultural purposes.

The Town has purchased the property where the Center is proposed which will create a focal point for the residents and visitors.

ROS OBJECTIVE 1.4: Ensure public access to public open spaces, parks, and recreational facilities.

All residents and visitors will have access the Center.

SWM Policy 1.1.2: All new development and redevelopment shall provide stormwater management systems that meet established levels of service and all applicable state, regional, and local laws and regulations.

The Center has been designed to meet all stormwater management system regulations.



15. Please provide a revised narrative that explains how the PUD/ODP application meets the Standards for approval or disapproval of application, per Section 158.036(C).

Section 158.036 (C)

Standards for approval or disapproval of application. The Town Commission shall base its decision on each Outline Development Plan application on competent, substantial evidence of record and shall include conclusions but may also include written findings of fact related to the specific proposal and shall set forth the reasons for the grant of approval, with or without changes or special conditions, or for the disapproval of an Outline Development Plan application. The Commission's approval, approval with changes or special conditions, or disapproval of an Outline Development Plan application, shall be based on the application, evidence and testimony presented in the public hearing, and the following standards:

(1) In what respects the Outline Development Plan is or is not consistent with the intent of a Planned Unit Development as provided in <u>Section 158.034</u>.

RESPONSE

The proposed plan is consistent with the intent of a Planned Unit Development. The plan has been designed so multiple uses, activities and offerings can be provided in the Town Center that can be accessed and enjoyed by the Town's residents and visitors.

(2) Whether the plan is consistent with the Town's Comprehensive Plan.

RESPONSE

The proposed plan is consistent with Town's Comprehensive Plan which has identified a Town Center activity area be developed.

(3) The extent to which the plan meets the zoning and Subdivision Regulations otherwise applicable to the subject property without Departures, Waivers, or Variances.

RESPONSE

The proposed plan meets the zoning and Subdivisions Regulations. No Departures, Waivers or Variances are required.

(4) The purpose, location and amount of common open space in the plan, the adequacy or inadequacy of the proposals for maintenance and conservation of the common open space, and the adequacy or inadequacy of the amount and purpose of the common open space as related to the proposed density and type of development.

RESPONSE

The plan is designed to co-locate a variety of uses while providing common open space for the residents and visitors coming to the Town Center.

(5) The physical design of the plan and the manner in which the design makes adequate provision for public services, provides adequate control over vehicular traffic and parking, and enhances the amenities of light and air, recreation and visual enjoyment.

RESPONSE

The plan has been designed to provide adequate vehicular circulation and parking with the required buffers being provided.

(6) The relationship, beneficial or adverse, of the proposed plan to the neighborhood in which it is proposed to be established.

RESPONSE

The subject property is surrounded by non-residential development and as such will not be negatively impacting any nearby residential neighborhoods.

(7) In the case of a plan that proposes development over a period of years, the sufficiency of the terms and conditions intended to protect the public interest and of the residents and owners of the Planned Unit Development in the faithful completion of the plan.

RESPONSE

There will be three phases to the plan. The first two phases (Outdoor Venue and Stage) will be completed immediately upon approval. Phase 3 of the plan includes the development of community facilities on the property to serve as additional amenities, potentially to be operated, programmed, managed, and maintained through a multi-party public-private partnership with public, private and donor funding. The property is owned and controlled by the Town.

(8) The extent to which the plan provides for an effective and unified development on the project site making appropriate provision for the preservation of scenic features and amenities of the site and the surrounding areas.

RESPONSE

The proposed plan is designed as a unified project incorporating landscaping and open space for the enjoyment of the visitors to the venue.

(9) For the MUC-1 and MUC-2 zoning districts only, all permitted uses as listed in Article IV, Division 4 for each district, are considered generally to be compatible uses in the MUC districts based on the intent to encourage mixed use and clustering at varying scales and intensity. Compatibility shall be achieved at specific locations by implementing compatibility techniques, such as those listed in this Section as appropriate to the context:

RESPONSE

The property is zoned PD-Planned Development District.

(a) Tourism uses and restaurants shall be designed to minimize noise from outdoor activities, such as outdoor music;

RESPONSE

The property is surrounded by non-residential uses however the proposed use areas of the plan have been oriented is such a way to minimize any noise from outdoor activities.

(b) Loading areas and parking at grade shall be screened and landscaped to minimize impacts to residential uses and adjacent rights-of-way/private roads;

RESPONSE

The proposed parking area has been screened and landscaped consistent with the code requirments.

(c) Anti-glare glass shall be utilized in all windows that could potentially reflect toward another residential use:

RESPONSE

No nearby residential uses exist.

(d) Lighting shall be designed to minimize impacts to residential units and adjacent public rights-of-way/private roads;

RESPONSE

No nearby residential uses exist. All lighting will be designed to minimize impacts on the adjacent public right-of-way/private roads.

(e) Additional compatibility techniques shall be employed wherever a proposed structure exceeding 50 feet is located within 500 feet of another structure that is substantially lower in height. "Substantially lower" means there is a difference of 50 feet or more between the proposed structure and the structure within 500 feet. For the purpose of this provision, acceptable compatibility techniques include, but are not limited to, perimeter berms, landscaping buffers, building orientation, building design, and architectural treatments;

RESPONSE

All structures are under 50 feet in height.

(f) This Section does not apply to the compatibility of uses within a proposed PUD development site, as permitted uses are deemed internally compatible.

RESPONSE

The property has been planned consistent with the public input and Town Commission direction.

(10) The additional criteria listed below apply to requests for buildings taller than 50 feet in the MUC-2 zoning district:

RESPONSE

All buildings are less than 50 feet in height.

(a) Yard sizes (building setbacks) are greater than required by Article IV; and

RESPONSE

N/A

(b) The taller buildings are consistent with the intent of the district and compatible with similar existing uses within the overall district.

RESPONSE

N/A





Town of Longboat Key Planning, Zoning and Building Department

501 Bay Isles Road Longboat Key, Florida 34228 941-316-1966 941-316-1970 FAX

APPLICATION FOR SITE DEVELOPMENT PLAN REVIEW

Application must be completed in its entirety, and owner's signature notarized.

APPLICANT IS REQUIRED TO INITIALLY SUBMIT FIVE (5) INDIVIDUAL, COLLATED SETS OF THIS APPLICATION, SUPPORTING PLANS AND DOCUMENTS ALONG WITH ONE (1) DIGITAL COPY OF ALL MATERIALS FOR THE DEVELOPMENT REVIEW COMMITTEE MEETING. ONCE APPLICATION DEEMED COMPLETE, ADDITIONAL COPIES WILL BE REQUESTED.

SITE DEVELOPMENT PLAN REVIEW APPLICATION FEE: (Deposit due at time of submission)

Non-Commercial Site Plan- \$1,000 deposit Commercial Site Plan- \$3,000 deposit

IF PAYING BY CREDIT CARD, PLEASE COMPLETE A CREDIT CARD AUTHORIZATION FORM

At the conclusion of your plan review by the Town, you will be billed for additional staff time, Town Attorney cost, cost of advertising, and any other miscellaneous costs incurred with the processing of your application(s). Costs will be deducted from initial deposit. If costs exceed the initial deposit, you will be billed for the remaining costs incurred; or you will be refunded the unused portion of the deposit.

Date Filed:	_ New Site Plan	L Revised Site Plan L
Name of Development:Town	Center Green	4.44
Site Address: 600 Bay Isle	s Road Longboat Key	ey, Florida 34228
PROPERTY OWNER		
Name: Town of Longboat Key		
Company/Firm: Public Works		
Phone: 941-316-8711	_Fax:941-316-1984	Email: cmopps@longboatkey.org
Mailing Address: 501 Bay Isles Roa	d	
City: Longboat Key		e; Florida Zip: 34228
APPLICANT/AGENT		
Name: Charles Mopps		
Company/Firm: Town of Longboat Ke	ey, Public Works	
Phone: 941-316-1988	_Fax: <u>941-316-198</u> 4	Email: cmopps@longboatkey.org
Mailing Address: 600 General Harris	Street	
City: Longboat Key	State:	e: <u>Florida</u> Zip: <u>34228</u>
ENGINEER/SURVEYOR		
Name: 1: John Pari 2: Peter Lutz	3; Joel Freedman	
Company/Firm: 1: DMK Associates	2: George F. Young, Ir	Inc 3: Joel Freedman Consulting



APPLICATION FOR SITE DEVELOPMENT PLAN REVIEW. Page 2

Phone: 941-412-1293 Fax:_	Email: <u>jpari@dmkassoc.com</u>
Mailing Address: 421 Commercial Ct, Ste C	
City: Venice	State:Zip:34292
ARCHITECT	
Name: Chris Gallagher	
	Email: chris@hoytarchitects.com
Mailing Address: 1527 Second Street	
	State: <u>Florida</u> Zip: <u>34236</u>
EXISTING SITE INFORMATION:	
	Footage of Site: 209,490 Lot Coverage: 53,059
Total Units: 0 Propos	
	Max Density Allowed:N/A
reicentage Non-Open Space. <u>25.33</u>	Max Density Allowed:MA
PROPOSED SITE INFORMATION:	
Zoning District: <u>MUC-1</u> Square	e Footage of Site: <u>209,490</u> Lot Coverage: <u>90,017</u>
Total Units: 0 Propos	
	Max Density Allowed: N/A
Proposed Development for Existing	g and New Buildings
Building A: Existing □ New 図 Building Us	e Pavilion, Stage and Restroom
Square Feet 1,850 Height 21'1"	Number of Floors 1 First Floor Elevation 6.5'
Building B: Existing ☐ New ☐ Building Us	se
	Number of FloorsFirst Floor Elevation
	Se
Square Feet Height	Number of FloorsFirst Floor Elevation
Building D: Existing \square New \square Building Us	se
Square Feet Height	Number of FloorsFirst Floor Elevation
Building E: Existing □ New □ Building Us	6e
	Number of FloorsFirst Floor Elevation
	Parking Spaces Indicated: 94
Please check all that apply:	
Attached hereto are the necessary appro	ovals of the federal, state, county and regional agencies.
Yes X No	



APPLICATION FOR SITE DEVELOPMENT PLAN REVIEW Page 3 $\,$

Proposed site plan complies with the Comprehensive Plan and Zoning Code. Yes X No C (Provide an attached narrative explaining how, and include the relevant Comprehensive Plan Goals, Objectives and Policies.)
Proposed site plan complies with the Subdivision Ordinance and Town Code. Yes No (Provide an attached narrative demonstrating compliance with 158.028, and .030, include .036 where applicable. Also include how the plan is consistent with 158.031, Findings of Fact)
Date of Development Review Committee Meeting:
BONDS REQUIRED: Please contact the Planning, Zoning & Bullding Department to determine whether your project will require a Site Restoration Bond, and the Public Works Department to determine if you will require a Performance Bond.
I hereby certify that I have read and examined this application and know the same to be true and correct. All provisions of laws and ordinances governing the subject type of development will be complied with whether specified herein or not, the granting of a permit does not presume to give authority to violate or cancel the provisions of any other federal, state or local law regulating construction or the performance of construction. Applicant's Signature: Date:
NOTARIZATION OF SIGNATURE State of Florida County of Saraso ta
The foregoing instrument was acknowledged before me by means of physical presence or online notarization this day of October 20 22 By Charlie Mopps
Signature of Notary Public Savannah Cobb Printed/Stamped Name of Notary Public Savannah Cobb
Personally known OR produced identification Type of ID
SAVANNAH SCHIELD COBB Notary Public-State of Florida Commission # HH 187136 My Commission Expires October 17, 2025

158.028 - Application for Site Development Plan approval.

Any application for Site Development Plan approval shall be signed and submitted by the Applicant on a form provided by the Town together with full payment of an application fee as set forth by resolution of the Town Commission and in addition shall include at least the following information, unless the Planning and Zoning Official determines that one or more of the following elements do not apply to the particular development:

(A) The character of use and the location and size of the site, including a current land survey with a complete legal description prepared and certified by a registered surveyor.

RESPONSE

The required information has been provided in the attached plan set.

(B) Site Development Plan with the title of the project, its lot configuration, finished ground floor elevations, contours (i.e., at six-inch intervals with reference to mean sea level), and designating number of dwelling units, square footage paved areas and open area, and dimensioned setbacks to scale indicating compliance with regulations.

RESPONSE

The required information has been provided in the attached plan set.

(C) Verified statement, including a certificate of ownership, showing each and every individual person having a legal ownership, interest in the subject property except publicly held corporations whose stock is traded on a nationally recognized stock exchange, in which case the name and address of the corporation and principal executive officers will be sufficient. A property owners' affidavit shall be provided if the owners are authorizing an agent to submit the Site Development Plan application on their behalf. If the agent is acting on behalf of an Association, the agent shall provide a copy of the Board Meeting minutes and authorization that verifies the agent has authorization to act on behalf of the Association.

RESPONSE

The property is owned by the Town of Longboat Key. The certificate of ownership has been provided.

(D) The relationship of the site to existing development in the area including streets, utilities, residential and commercial development, and important physical features in and adjoining the project, including ecological features.

RESPONSE

The Town of Longboat Key purchase the property located in the designated Town Center to create a gathering spot and future amenities for the Town's residents and visitors. The Town Commission approved a master plan for the site that include both an outdoor venue and the future development of facilities that would complement the site.

(E) The density or intensity of land use(s) to be allocated to all parts of the site to be developed together with tabulations by acreage and percentage thereof itemized by use and density.

RESPONSE

The required information has been provided in the attached plan set.

(F) Tabulations by acreage and percentage as to the amount of the site that is uplands and wetlands, indicating those wetlands landward and seaward of the mean high-water line (MHWL). Additional related information should include the extent and type of wetlands in accordance with the Town's Comprehensive Plan.

RESPONSE

The required information has been provided in the attached plan set.

(G) Architectural definitions for buildings in the development, include use, height, daylight plane, exterior construction material, exact number of dwelling units, sizes and types of building and dwelling units, together with typical floor plans of each type. The floor plans should indicate uses and square footage of each proposed use within each building or structure and all exterior dimensions of each type of building or structure.

RESPONSE

The required information has been provided in the attached plan set.

(H) The type and location of all existing trees protected by Town regulations, including a plan how the removal of such vegetation would be avoided or replanted or replaced.

RESPONSE

The required information has been provided in the attached plan set.

(I) Location, design and character of all utilities.

RESPONSE

The required information has been provided in the attached plan set.

(J) Location, height and general character of perimeter and ornamental walls, fences, landscaping, including berms and other required screening devices and any other plans for protecting adjacent property owners.

RESPONSE

The required information has been provided in the attached plan set.

(K) Location of all pedestrian walks, malls and bike paths.

RESPONSE

The required information has been provided in the attached plan set.

(L) Location and character of recreation areas and facilities and the disposition of all open space indicated on drawings. This information should include calculations, verified by a licensed design professional, indicating how the Town's open space requirements are being met. If common facilities (such as recreation areas or structures, private streets, common open space, etc.) are to be provided for the development, statements as to how such common facilities are to be provided and permanently maintained. Such statements may take the form of proposed deed restrictions, deeds of trust, homeowners associations, surety arrangements, or other legal instruments providing adequate guarantees to the Town that such common facilities will not become a future liability of the Town.

RESPONSE

The required information has been provided in the attached plan set.

(M) Location and character of all outside facilities for waste disposal, storage areas or display.

RESPONSE

The required information has been provided in the attached plan set.

(N) A traffic impact analysis, if applicable under Section 158.030 (D)(1), to ensure that the adopted level of service standards are not exceeded before capacity-related improvements are implemented.

RESPONSE

A traffic impact analysis has been prepared and is part of this submittal.

(O) The locations and dimensions of all curb cuts, driveways, including the number of parking spaces with their location and dimension, details of off-street parking, including interior parking areas and loading areas, all off-street vehicular surfaces available for maneuvering, surface materials, number of employees and number and type of vehicles owned by the establishment shall be provided.

RESPONSE

The required information has been provided in the attached plan set.

(P) Flood protection elevation data and flood zones delineated. A surface water management plan based on best management practices and in accordance with the sanitary sewer, potable water, solid waste, and drainage element of the Town's Comprehensive Plan.

RESPONSE

The required information has been provided in the attached plan set.

(Q) A soil erosion and sedimentation plan in accordance with of the Town's Comprehensive Plan and best management practices.

RESPONSE

The required information has been provided in the attached plan set.

(R) Such additional data, maps, plans or statements as may be required for the particular use or activity involved.

RESPONSE

The information provided addresses the various issues and impacts associated with the project.

(S) Such additional data, as the Applicant may believe is pertinent to the Site Development Plan.

RESPONSE

The information provided addresses the various issues and impacts associated with the project.

(T) Such additional material and information as the Town may reasonably require.

RESPONSE

All information requested by the Town has been provided.

(U) A list of all Waivers from the supplemental controls set forth in Subsection 158.030(K) and a clear description of the nature and extent of the requested Waiver and a statement specifically indicating the factual basis for any hardship claimed by the Applicant and a statement of the facts constituting the basis for a request for a Waiver of the supplemental controls as set forth in subsection 158.030(K).

RESPONSE

No Waivers are being requested.

RESPONSE TO PLANNING AND ZONING REVIEW COMMENTS

11. The Findings of Fact document states that the property is not in a subdivision and does not need to meet Subdivision Standards. Please revise this statement to explain how the property is being consolidated to create one property that meets Subdivision Code standards.

(C) In what respects the plan is or is not in conformance with the Town's Subdivision Regulations, Chapter 157, and all other applicable Town requirements, including the design, adequacy and construction of streets, drainage, utility facilities, and other essential services.

RESPONSE

The subject property consists of three lots (PIN#s 0006130017, 0006130018 and 0006130007) owned by the Town of Longboat Key. These three lots will be consolidated into a single lot owned by the Town. The new consolidated lot will comply with all applicable Subdivision Standards.

12. Response #2 on the document labeled "158.030 - Performance Standards" states that the property is consistent with the approved Master Plan for the property. There is no approved Master Plan for the property. Please revise this statement and expand upon the response to ensure compliance with the standard.

- (2) Design and arrangement of buildings.
- (a) Adequate provision shall be made for light, air, access, and privacy in the arrangement of the buildings to each other. Each living space shall have sufficient exterior exposures. Adequate laundry facilities, including space and connections for washing machines and clothes dryers, shall be available for multifamily dwellings on the premises.
- (b) All buildings in the layout and design shall be an integral part of the development and have convenient access to and from adjacent uses.
- (c) Individual buildings shall be related to each other in design, masses, materials, placement and connections to provide a visually and physically integrated development.
- (d) Treatment of the sides and rear of all buildings within the development shall be comparable in amenity and appearance to the treatment given to street frontage of these same buildings.
- (e) The design of buildings and the parking facilities shall take advantage of the natural features and topography of the project site.
- (f) All building walls shall be so oriented as to ensure adequate light and air exposures to the room within.
- (g) All buildings shall be arranged so as to avoid undue exposure to concentrated loading or parking facilities wherever possible and shall be so oriented as to preserve visual and audible privacy between adjacent buildings.
- (h) All buildings shall be arranged so as to be accessible to emergency vehicles.

RESPONSE

Surveys and public meeting were conducted in 2020, and additional feedback was obtained as part of the Town's most recent 2021 Citizen's Survey regarding the development of the Town Center Property. The proposed plans are consistent with that input and all buildings will be designed to be consistent with the performance standards.



Southwest Florida Water Management District

2379 Broad Street, Brooksville, Florida 34604-6899 (352) 796-7211 or 1-800-423-1476 (FL only) SUNCOM 628-4150 TDD only 1-800-231-6103 (FL only) On the Internet at: WaterMatters.org

An Equal
Opportunity
Employer

Bartow Service Office 170 Century Boulevard Bartow, Florida 33830-7700 (863) 534-1448 or 1-800-492-7862 (FL only)

Sarasota Service Office 78 Sarasota Center Boulevard Sarasota, Florida 34240-9770 (941) 377-3722 or 1-800-320-3503 (FL only) Tampa Service Office 7601 Highway 301 North Tampa, Florida 33637-6759 (813) 985-7481 or 1-800-836-0797 (FL only)

April 22, 2021

Town of Longboat Key Attn: Isaac Brownman 600 General Harris Street Longboat Key, FL 34228

Subject: Notice of Intended Agency Action - Approval

ERP Individual Construction Major Modification

Project Name: Longboat Key Town Center App ID/Permit No: 817600 / 43043470.002

County: Sarasota

Sec/Twp/Rge: S08/T36S/R17E

Dear Permittee(s):

The Southwest Florida Water Management District (District) has completed its review of the application for Environmental Resource Permit modification. Based upon a review of the information you have submitted, the District hereby gives notice of its intended approval of the application.

The File of Record associated with this application can be viewed at http://www18.swfwmd.state.fl.us/erp/erp/search/ERPSearch.aspx and is also available for inspection Monday through Friday, except for District holidays, from 8:00 a.m. through 5:00 p.m. at the District's Tampa Service Office, 7601 U.S. Highway 301 North, Tampa, Florida 33637.

If you have any questions or concerns regarding the application or any other information, please contact the Environmental Resource Permit Bureau in the Tampa Service Office.

Sincerely,

David Kramer, P.E.
Bureau Chief
Environmental Resource Permit Bureau
Regulation Division

cc: John Pari, P.E., DMK Associates, Inc.



Southwest Florida Water Management District

2379 Broad Street, Brooksville, Florida 34604-6899 (352) 796-7211 or 1-800-423-1476 (FL only) SUNCOM 628-4150 TDD only 1-800-231-6103 (FL only) On the Internet at: WaterMatters.org

An Equal Opportunity Employer Bartow Service Office 170 Century Boulevard Bartow, Florida 33830-7700 (863) 534-1448 or 1-800-492-7862 (FL only) Sarasota Service Office 78 Sarasota Center Boulevard Sarasota, Florida 34240-9770 (941) 377-3722 or 1-800-320-3503 (FL only) Tampa Service Office 7601 Highway 301 North Tampa, Florida 33637-6759 (813) 985-7481 or 1-800-836-0797 (FL only)

April 22, 2021

Town of Longboat Key Attn: Isaac Brownman 600 General Harris Street Longboat Key, FL 34228

Subject: Notice of Agency Action - Approval

ERP Individual Construction Major Modification

Project Name: Longboat Key Town Center App ID/Permit No: 817600 / 43043470.002

County: Sarasota

Sec/Twp/Rge: S08/T36S/R17E

Dear Permittee(s):

The Southwest Florida Water Management District (District) is in receipt of your application for the Environmental Resource Permit modification. Based upon a review of the information you submitted, the application is approved.

Please refer to the attached Notice of Rights to determine any legal rights you may have concerning the District's agency action on the permit application described in this letter.

If approved construction plans are part of the permit, construction must be in accordance with these plans. These drawings are available for viewing or downloading through the District's Application and Permit Search Tools located at www.WaterMatters.org/permits.

The District's action in this matter only becomes closed to future legal challenges from members of the public if such persons have been properly notified of the District's action and no person objects to the District's action within the prescribed period of time following the notification. The District does not publish notices of agency action. If you wish to limit the time within which a person who does not receive actual written notice from the District may request an administrative hearing regarding this action, you are strongly encouraged to publish, at your own expense, a notice of agency action in the legal advertisement section of a newspaper of general circulation in the county or counties where the activity will occur. Publishing notice of agency action will close the window for filing a petition for hearing. Legal requirements and instructions for publishing notices of agency action, as well as a noticing form that can be used, are available from the District's website at www.WaterMatters.org/permits/noticing. If you publish notice of agency action, a copy of the affidavit of publication provided by the newspaper should be sent to the District's Tampa Service Office for retention in this permit's File of Record.

If you have any questions or concerns regarding your permit or any other information, please contact the Environmental Resource Permit Bureau in the Tampa Service Office.

Sincerely,

David Kramer, P.E. Bureau Chief Environmental Resource Permit Bureau Regulation Division

Enclosures: Approved Permit w/Conditions Attached

As-Built Certification and Request for Conversion to Operation Phase

Notice of Authorization to Commence Construction

Notice of Rights

cc: John Pari, P.E., DMK Associates, Inc.

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT ENVIRONMENTAL RESOURCE

INDIVIDUAL CONSTRUCTION MAJOR MODIFICATION PERMIT NO. 43043470.002

EXPIRATION DATE: April 22, 2026 PERMIT ISSUE DATE: April 22, 2021

This permit is issued under the provisions of Chapter 373, Florida Statutes, (F.S.), and the Rules contained in Chapter 62-330, Florida Administrative Code, (F.A.C.). The permit authorizes the Permittee to proceed with the construction of a surface water management system in accordance with the information outlined herein and shown by the application, approved drawings, plans, specifications, and other documents, attached hereto and kept on file at the Southwest Florida Water Management District (District). Unless otherwise stated by permit specific condition, permit issuance constitutes certification of compliance with state water quality standards under Section 401 of the Clean Water Act, 33 U.S.C. 1341. All construction, operation and maintenance of the surface water management system authorized by this permit shall occur in compliance with Florida Statutes and Administrative Code and the conditions of this permit.

PROJECT NAME: Longboat Key Town Center

GRANTED TO: Town of Longboat Key

Attn: Isaac Brownman 600 General Harris Street Longboat Key, FL 34228

OTHER PERMITTEES: N/A

ABSTRACT: This permit authorization is for the modification of a stormwater management system authorized under Permit No. 43043470.001, serving a park/recreational area. The proposed activities include the following:

- 1. The reconfiguration and expansion of Pond 1.
- 2. The increase in length of effluent underdrain pipe from 20 linear feet (LF) to 125 LF.
- 3. The construction of a circular pedestrian walkway made of pervious pavement, a shell walkway, and associated infrastructure.
- 4. The construction of conveyance swales. The Engineer-of-Record has demonstrated that the conveyance swales have been designed to convey runoff up to the 100-year, 24-hour storm event for the respective contributing basin areas.
- 5. Two future building pads (Pad Site A: 11,200 square feet; Pad Site B: 7,700 square feet) have been accounted for in the design of proposed modified Pond 1. A permit modification shall be obtained for the construction of the future building pads. If the future building pads are to be constructed at different times, separate permit modifications may need to be obtained to construct the respective future building pad.
- 6. This Permit Modification No. 43043470.002, amends the previously issued Permit No. 43043470.001, and replaces Specific Condition No. 10 with Specific Condition No. 9 herein, upon transfer of this permit modification to the operation phase. The tracking requirements for Pond 1 will be removed from Permit No. 43043470.001 and tracking shall occur under Permit Modification No. 43043470.002 upon transfer to the operation phase.

The site is located at 592 Bay Isles Road, in Sarasota County.

OP. & MAIN. ENTITY: Town of Longboat Key

OTHER OP. & MAIN. ENTITY: N/A

COUNTY: Sarasota

SEC/TWP/RGE: S08/T36S/R17E

TOTAL ACRES OWNED

OR UNDER CONTROL: 2.30

PROJECT SIZE: 2.30 Acres

LAND USE: Government

DATE APPLICATION FILED: January 15, 2021

AMENDED DATE: N/A

I. Water Quantity/Quality

POND No.	Area Acres @ Top of Bank	Treatment Type
Modified Pond 1	3.60	EFFLUENT FILTRATION
	Total: 3.60	

<u>Water Quality/Quantity Comments:</u> The post-development discharge rate will be limited to the pre-development discharge rate for the 25-year, 24-hour storm event. The site is located within the watershed of Sarasota Bay (WBID 1968B) which is not impaired for nutrient-related parameters. Presumptive criteria governs the water quality design. The plans and calculations reflect the North American Vertical Datum of 1988 (NAVD 88).

A mixing zone is not required.

A variance is not required.

II. 100-Year Floodplain

Encroachment (Acre-Feet of fill)	Compensation (Acre-Feet of excavation)	Compensation Type	Encroachment Result* (feet)
0.00	0.00	No Encroachment	N/A

<u>Floodplain Comments:</u> There is 0.11 acre-foot of floodplain encroachment (previously not quantified) from the proposed activities under Permit No. 43043470.001. There are no new floodplain impacts proposed under this modification.

*Depth of change in flood stage (level) over existing receiving water stage resulting from floodplain encroachment caused by a project that claims Minimal Impact type of compensation.

III. Environmental Considerations

Wetland/Other Surface Water Information

Wetland/Other Surface Water Comments:

Wetlands are not located within the project area for this ERP; however, there are 0.007 acre (304 square feet) of other surface water features, consisting of an upland-cut ditch (FLUCCS 510) located within the project area. Permanent shading impacts to 0.007 acre (304 square feet) of the other surface water feature will occur for the construction of a length of spanning boardwalk associated with a public municipality park development and associated stormwater management system.

Mitigation Information

Mitigation Comments:

Wetland mitigation is not required for permanent shading impacts to the upland-cut ditch pursuant to Subsection 10.2.2.2 of the ERP Applicant's Handbook Vol. I. Under this Subsection, wetland mitigation is not required for impacts to drainage ditches that were constructed in uplands and do not provide significant habitat for threatened or endangered species and were not constructed to divert natural stream flow.

Specific Conditions

- 1. If the ownership of the project area covered by the subject permit is divided, with someone other than the Permittee becoming the owner of part of the project area, this permit may be terminated, unless the terms of the permit are modified by the District or the permit is transferred pursuant to Rule 40D-1.6105, F.A.C. In such situations, each land owner shall obtain a permit (which may be a modification of this permit) for the land owned by that person. This condition shall not apply to the division and sale of lots or units in residential subdivisions or condominiums.
- 2. The Permittee shall retain the design professional registered or licensed in Florida, to conduct on-site observations of construction and assist with the as-built certification requirements of this project. The Permittee shall inform the District in writing of the name, address and phone number of the design professional so employed. This information shall be submitted prior to construction.
- 3. The following boundaries, as shown on the approved construction drawings, shall be clearly delineated on the site prior to initial clearing or grading activities:

surface water areas

limits of approved wetland impacts

The delineation shall endure throughout the construction period and be readily discernible to construction and District personnel.

- 4. Prior to installation of the filter media, the Permittee's contractor shall submit a certified test of the media to the Permittee's design professional. The test shall address the following parameters: uniformity coefficient, effective grain size, sieve analysis, percent silts, clays and organic matter, and permeability testing (constant head). If testing indicates the actual permeability rate is less than the value specified in the permitted design, a permit modification will be required to lengthen the effluent filtration system. The Permittee shall also notify the District Service Office that services this permit, at least 48 hours prior to commencement of construction of the effluent filtration system, so that District staff may observe this construction activity.
- 5. For dry bottom detention systems, the detention area(s) shall become dry within 36 hours after a rainfall event. If a detention area is regularly wet, this situation shall be deemed to be a violation of this permit.
- 6. This Permit Modification No. 43043470.002, amends the previously issued Permit No. 43043470.001, and replaces Specific Condition No. 10 with Specific Condition No. 9 herein. The tracking requirements for Pond 1 will be removed from Permit No. 43043470.001 and be tracked under Permit Modification No. 43043470.002, upon transfer to the operation phase.
- 7. Two future building pads (Pad Site A, 11,200 square feet; Pad Site B 7,700 square feet) have been accounted for in the design of proposed modified Pond 1. A permit modification shall be obtained for the construction of the future building pads. If the future building pads are to be constructed at separate times, individual permit modifications may need to be obtained to construct the respective future building pad.
- 8. If limestone bedrock is encountered during construction of the stormwater management system, the District must be notified and construction in the affected area shall cease.
- 9. The Permittee shall notify the District of any sinkhole development in the stormwater management system within 48 hours of discovery and must submit a detailed sinkhole evaluation and repair plan for approval by the District within 30 days of discovery.
- 10. The Permitted Plan Set for this project includes: the set received by the District on April 21, 2021.
- 11. The operation and maintenance entity shall provide for the inspection of the permitted project after conversion of the permit to the operation and maintenance phase. For systems utilizing effluent filtration the inspections shall be performed 24 months after operation is authorized and every 24 months thereafter.

The operation and maintenance entity must maintain a record of each inspection, including the date of inspection, the name and contact information of the inspector, whether the system was functioning as designed and permitted, and make such record available upon request of the District.

Within 30 days of any failure of a stormwater management system or deviation from the permit, an inspection report shall be submitted using Form 62-330.311(1), "Operation and Maintenance Inspection Certification" describing the remedial actions taken to resolve the failure or deviation.

- 12. District staff must be notified in advance of any proposed construction dewatering. If the dewatering activity is likely to result in offsite discharge or sediment transport into wetlands or surface waters, a written dewatering plan must either have been submitted and approved with the permit application or submitted to the District as a permit prior to the dewatering event as a permit modification. A water use permit may be required prior to any use exceeding the thresholds in Chapter 40D-2, F.A.C.
- 13. Off-site discharges during construction and development shall be made only through the facilities authorized by this permit. Water discharged from the project shall be through structures having a mechanism suitable for regulating upstream stages. Stages may be subject to operating schedules satisfactory to the District.
- 14. The permittee shall complete construction of all aspects of the stormwater management system, including wetland compensation (grading, mulching, planting), water quality treatment features, and discharge control facilities prior to beneficial occupancy or use of the development being served by this system.
- 15. The following shall be properly abandoned and/or removed in accordance with the applicable regulations:
 - a. Any existing wells in the path of construction shall be properly plugged and abandoned by a licensed well contractor.
 - b. Any existing septic tanks on site shall be abandoned at the beginning of construction.
 - c. Any existing fuel storage tanks and fuel pumps shall be removed at the beginning of construction.
- 16. All stormwater management systems shall be operated to conserve water in order to maintain environmental quality and resource protection; to increase the efficiency of transport, application and use; to decrease waste; to minimize unnatural runoff from the property and to minimize dewatering of offsite property.
- 17. Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the occupation of the site or operation of site infrastructure located within the area served by that portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of that phase or portion of the system to a local government or other responsible entity.
- 18. This permit is valid only for the specific processes, operations and designs indicated on the approved drawings or exhibits submitted in support of the permit application. Any substantial deviation from the approved drawings, exhibits, specifications or permit conditions, including construction within the total land area but outside the approved project area(s), may constitute grounds for revocation or enforcement action by the District, unless a modification has been applied for and approved. Examples of substantial deviations include excavation of ponds, ditches or sump areas deeper than shown on the approved plans.
- 19. This permit does not authorize the Permittee to cause any adverse impact to or "take" of state listed species and other regulated species of fish and wildlife. Compliance with state laws regulating the take of fish and wildlife is the responsibility of the owner or applicant associated with this project. Please refer to Chapter 68A-27 of the Florida Administrative Code for definitions of "take" and a list of fish and wildlife species. If listed species are observed onsite, FWC staff are available to provide decision support information or assist in obtaining the appropriate FWC permits. Most marine endangered and threatened species are statutorily protected and a "take" permit cannot be issued. Requests for further information or review can be sent to FWCConservationPlanningServices@MyFWC.com.

GENERAL CONDITIONS

1.	The general conditions attached hereto as Exhibit "A" are hereby incorporated into this permit by reference and the Permittee shall comply with them.
	David Kramer, P.E.
	Authorized Signature

EXHIBIT A

GENERAL CONDITIONS:

- The following general conditions are binding on all individual permits issued under this chapter, except where the conditions are not applicable to the authorized activity, or where the conditions must be modified to accommodate, project-specific conditions.
 - a. All activities shall be implemented following the plans, specifications and performance criteria approved by this permit. Any deviations must be authorized in a permit modification in accordance with Rule 62-330.315, F.A.C., or the permit may be revoked and the permittee may be subject to enforcement action.
 - b. A complete copy of this permit shall be kept at the work site of the permitted activity during the construction phase, and shall be available for review at the work site upon request by the Agency staff. The permittee shall require the contractor to review the complete permit prior to beginning construction.
 - c. Activities shall be conducted in a manner that does not cause or contribute to violations of state water quality standards. Performance-based erosion and sediment control best management practices shall be installed immediately prior to, and be maintained during and after construction as needed, to prevent adverse impacts to the water resources and adjacent lands. Such practices shall be in accordance with the *State of Florida Erosion and Sediment Control Designer and Reviewer Manual (Florida Department of Environmental Protection and Florida Department of Transportation June 2007*), and the *Florida Stormwater Erosion and Sedimentation Control Inspector's Manual (Florida Department of Environmental Protection, Nonpoint Source Management Section, Tallahassee, Florida, July 2008*), which are both incorporated by reference in subparagraph 62-330.050(8)(b)5, F.A.C., unless a project-specific erosion and sediment control plan is approved or other water quality control measures are required as part of the permit.
 - d. At least 48 hours prior to beginning the authorized activities, the permittee shall submit to the Agency a fully executed Form 62-330.350(1), "Construction Commencement Notice," [effective date], incorporated by reference herein (https://www.flrules.org/Gateway/reference.asp?No=Ref-02505), indicating the expected start and completion dates. A copy of this form may be obtained from the Agency, as described in subsection 62-330.010(5), F.A.C. However, for activities involving more than one acre of construction that also require a NPDES stormwater construction general permit, submittal of the Notice of Intent to Use Generic Permit for Stormwater Discharge from Large and Small Construction Activities, DEP Form 62-621.300(4)(b), shall also serve as notice of commencement of construction under this chapter and, in such a case, submittal of Form 62-330.350(1) is not required.
 - e. Unless the permit is transferred under Rule 62-330.340, F.A.C., or transferred to an operating entity under Rule 62-330.310, F.A.C., the permittee is liable to comply with the plans, terms and conditions of the permit for the life of the project or activity.
 - f. Within 30 days after completing construction of the entire project, or any independent portion of the project, the permittee shall provide the following to the Agency, as applicable:
 - 1. For an individual, private single-family residential dwelling unit, duplex, triplex, or quadruplex "Construction Completion and Inspection Certification for Activities Associated with a Private Single-Family Dwelling Unit" [Form 62-330.310(3)]; or
 - 2. For all other activities "As-Built Certification and Request for Conversion to Operation Phase" [Form 62-330.310(1)].
 - 3. If available, an Agency website that fulfills this certification requirement may be used in lieu of the form.
 - g. If the final operation and maintenance entity is a third party:

- 1. Prior to sales of any lot or unit served by the activity and within one year of permit issuance, or within 30 days of as- built certification, whichever comes first, the permittee shall submit, as applicable, a copy of the operation and maintenance documents (see sections 12.3 thru 12.3.4 of Volume I) as filed with the Department of State, Division of Corporations and a copy of any easement, plat, or deed restriction needed to operate or maintain the project, as recorded with the Clerk of the Court in the County in which the activity is located.
- 2. Within 30 days of submittal of the as- built certification, the permittee shall submit "Request for Transfer of Environmental Resource Permit to the Perpetual Operation and Maintenance Entity" [Form 62-330.310 (2)] to transfer the permit to the operation and maintenance entity, along with the documentation requested in the form. If available, an Agency website that fulfills this transfer requirement may be used in lieu of the form.
- h. The permittee shall notify the Agency in writing of changes required by any other regulatory agency that require changes to the permitted activity, and any required modification of this permit must be obtained prior to implementing the changes.
- i. This permit does not:
 - 1. Convey to the permittee any property rights or privileges, or any other rights or privileges other than those specified herein or in Chapter 62-330, F.A.C.;
 - 2. Convey to the permittee or create in the permittee any interest in real property;
 - 3. Relieve the permittee from the need to obtain and comply with any other required federal, state, and local authorization, law, rule, or ordinance; or
 - 4. Authorize any entrance upon or work on property that is not owned, held in easement, or controlled by the permittee.
- j. Prior to conducting any activities on state-owned submerged lands or other lands of the state, title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund, the permittee must receive all necessary approvals and authorizations under Chapters 253 and 258, F.S. Written authorization that requires formal execution by the Board of Trustees of the Internal Improvement Trust Fund shall not be considered received until it has been fully executed.
- k. The permittee shall hold and save the Agency harmless from any and all damages, claims, or liabilities that may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any project authorized by the permit.
- I. The permittee shall notify the Agency in writing:
 - 1. Immediately if any previously submitted information is discovered to be inaccurate; and
 - 2. Within 30 days of any conveyance or division of ownership or control of the property or the system, other than conveyance via a long-term lease, and the new owner shall request transfer of the permit in accordance with Rule 62-330.340, F.A.C. This does not apply to the sale of lots or units in residential or commercial subdivisions or condominiums where the stormwater management system has been completed and converted to the operation phase.
- m. Upon reasonable notice to the permittee, Agency staff with proper identification shall have permission to enter, inspect, sample and test the project or activities to ensure conformity with the plans and specifications authorized in the permit.
- n. If any prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoes, or any other physical remains that could be associated with Native American cultures, or early colonial or American settlement are encountered at any time within the project site area, work involving

subsurface disturbance in the immediate vicinity of such discoveries shall cease. The permittee or other designee shall contact the Florida Department of State, Division of Historical Resources, Compliance and Review Section, at (850) 245-6333 or (800) 847-7278, as well as the appropriate permitting agency office. Such subsurface work shall not resume without verbal or written authorization from the Division of Historical Resources. If unmarked human remains are encountered, all work shall stop immediately and notification shall be provided in accordance with Section 872.05, F.S. (2012).

- o. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered binding unless a specific condition of this permit or a formal determination under Rule 62-330.201, F.A.C., provides otherwise.
- p. The permittee shall provide routine maintenance of all components of the stormwater management system to remove trapped sediments and debris. Removed materials shall be disposed of in a landfill or other uplands in a manner that does not require a permit under Chapter 62-330, F.A.C., or cause violations of state water quality standards.
- q. This permit is issued based on the applicant's submitted information that reasonably demonstrates that adverse water resource-related impacts will not be caused by the completed permit activity. If any adverse impacts result, the Agency will require the permittee to eliminate the cause, obtain any necessary permit modification, and take any necessary corrective actions to resolve the adverse impacts.
- r. A Recorded Notice of Environmental Resource Permit may be recorded in the county public records in accordance with Rule 62-330.090(7), F.A.C. Such notice is not an encumbrance upon the property.
- 2. In addition to those general conditions in subsection (1) above, the Agency shall impose any additional project-specific special conditions necessary to assure the permitted activities will not be harmful to the water resources, as set forth in Rules 62-330.301 and 62-330.302, F.A.C., Volumes I and II, as applicable, and the rules incorporated by reference in this chapter.

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

NOTICE OF AUTHORIZATION

TO COMMENCE CONSTRUCTION

Longboat Key Town Center
PROJECT NAME
Government
PROJECT TYPE
Sarasota
COUNTY
000/7000/70475
S08/T36S/R17E
SEC(S)/TWP(S)/RGE(S)
Town of Langhast Koy
Town of Longboat Key
PERMITTEE

APPLICATION ID/PERMIT NO: 817600 / 43043470.002

DATE ISSUED: April 22, 2021



David Kramer, P.E.

Issuing Authority

THIS NOTICE SHOULD BE CONSPICUOUSLY DISPLAYED AT THE SITE OF THE WORK

Notice of Rights

ADMINISTRATIVE HEARING

- 1. You or any person whose substantial interests are or may be affected by the District's intended or proposed action may request an administrative hearing on that action by filing a written petition in accordance with Sections 120.569 and 120.57, Florida Statutes (F.S.), Uniform Rules of Procedure Chapter 28-106, Florida Administrative Code (F.A.C.) and District Rule 40D-1.1010, F.A.C. Unless otherwise provided by law, a petition for administrative hearing must be filed with (received by) the District within 21 days of receipt of written notice of agency action. "Written notice" means either actual written notice, or newspaper publication of notice, that the District has taken or intends to take agency action. "Receipt of written notice" is deemed to be the fifth day after the date on which actual notice is deposited in the United States mail, if notice is mailed to you, or the date that actual notice is issued, if sent to you by electronic mail or delivered to you, or the date that notice is published in a newspaper, for those persons to whom the District does not provide actual notice.
- 2. Pursuant to Subsection 373.427(2)(c), F.S., for notices of intended or proposed agency action on a consolidated application for an environmental resource permit and use of state-owned submerged lands concurrently reviewed by the District, a petition for administrative hearing must be filed with (received by) the District within 14 days of receipt of written notice.
- 3. Pursuant to Rule 62-532.430, F.A.C., for notices of intent to deny a well construction permit, a petition for administrative hearing must be filed with (received by) the District within 30 days of receipt of written notice of intent to deny.
- 4. Any person who receives written notice of an agency decision and who fails to file a written request for a hearing within 21 days of receipt or other period as required by law waives the right to request a hearing on such matters.
- 5. Mediation pursuant to Section 120.573, F.S., to settle an administrative dispute regarding District intended or proposed action is not available prior to the filing of a petition for hearing.
- 7. A petition for administrative hearing is deemed filed upon receipt of the complete petition by the District Agency Clerk at the District's Tampa Service Office during normal business hours, which are 8:00 a.m. to 5:00 p.m., Monday through Friday, excluding District holidays. Filings with the District Agency Clerk may be made by mail, hand-delivery or facsimile transfer (fax). The District does not accept petitions for administrative hearing by electronic mail. Mailed filings must be addressed to, and hand-delivered filings must be delivered to, the Agency Clerk, Southwest Florida Water Management District, 7601 Highway 301 North, Tampa,FL 33637-6759. Faxed filings must be transmitted to the District Agency Clerk at (813) 367-9776. Any petition not received during normal business hours shall be filed as of 8:00 a.m. on the next business day. The District's acceptance of faxed petitions for filing is subject to certain conditions set forth in the District's Statement of Agency Organization and Operation, available for viewing at www.WaterMatters.org/about.

JUDICIAL REVIEW

- 1. Pursuant to Sections 120.60(3) and 120.68, F.S., a party who is adversely affected by District action may seek judicial review of the District's action. Judicial review shall be sought in the Fifth District Court of Appeal or in the appellate district where a party resides or as otherwise provided by law.
- 2. All proceedings shall be instituted by filing an original notice of appeal with the District Agency Clerk within 30 days after the rendition of the order being appealed, and a copy of the notice of appeal, accompanied by any filing fees prescribed by law, with the clerk of the court, in accordance with Rules 9. 110 and 9.190 of the Florida Rules of Appellate Procedure (Fla. R. App. P.). Pursuant to Fla. R. App. P. 9.020(h), an order is rendered when a signed written order is filed with the clerk of the lower tribunal.

LONGBOAT KEY TOWN CENTER PARK

Traffic Impact Analysis and Parking Assessment

SEPTEMBER 2022

Prepared By







EXECUTIVE SUMMARY

The Town Center Park is proposed to consist of outdoor and indoor venue space. As indicated during the Town Commission Meeting on May 4, 2020, the indoor area is anticipated to be utilized for a variety of uses including but not limited to: community center, recreational center, library, cultural and educational centers, meeting space, etc. As indicated in the analysis methodology approved by Town staff, for the purposes of the traffic impact analysis and the parking assessment, approximately 86,500 square feet (about 2 acres) of the site was analyzed as Public Park use and approximately 37,800 square feet of the site was analyzed as Recreational Community Center use.

The analyses were conducted in accordance with the approved methodology dated April 15, 2021 and with the procedures consistent with Section 158.030 of the Town's Land Development Code to assess the transportation impact and parking demand of the proposed development.

Traffic Impact Analysis Summary

At buildout of the Town Center Park, the analysis concludes that the adjacent roadway segments, study intersections, and new project driveways, will operate adequately at buildout for the weekday and weekend (Saturday) PM peak-hour, peak season conditions. Therefore, no mitigation for transportation system capacity is recommended as a result of project impact.

Parking Assessment Summary

The Longboat Key Town Center Park parking assessment analyzed two scenarios: (1) the on-site parking needs for typical (not special event) use of the great lawn and proposed buildings and (2) the total parking needs for different size special event scenarios at the Town Center Park.

The current master site plan has 78 parking spaces. The Longboat Key Code requires 131 spaces for the Town Center Park two-story recreational community center buildings and the public park (great lawn). This requirement exceeds the 78 spaces shown on the master site plan by 68%.

Because daily use of the park and buildings will vary by time of day and day of week, a shared parking analysis was conducted. The shared parking analysis estimated that 89 spaces are needed on site for the park and buildings.

Given the civic amenities desired at the Town Center Park, the development of the buildings should not be limited by the need for 11 additional spaces. One potential solution is to develop a shared parking agreement with an adjacent property to accommodate the estimated parking demand during peak periods. Another solution is to accommodate parking needs at nearby civic properties, such as Longboat Key Town Hall or the public tennis courts to the north of the property. A shared parking agreement between the Town and a property owner would allow the Town to benefit from maximizing Town Center Park development for public benefit and be more efficient with the parking available in the area.

Additionally, multimodal strategies can be used to manage vehicle demand, such as enhanced bike parking and modified parking spaces to park golf carts. These strategies can make more efficient use of the on-site parking spaces.

For special events, small and medium sized events can be accommodated by working with near-by property owners to share parking. For a large event, it is estimated that parking demand exceeds the study area's parking supply.

Because a large special event may only happen once a year, there are industry best practices that communities use to manage parking demand. Examples include special event parking pricing, off-site parking with shuttle services to distribute parking demand over a larger area, or incentives for people to walk, ride a bike, or take public transportation.

The technical details and assumptions used to develop these findings are on the subsequent pages of this report.



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INTRODUCTION

Kimley-Horn was retained to perform a traffic impact analysis and parking assessment for the proposed Town Center Park development to be located within 4.81 acres of currently vacant land generally located north of Gulf of Mexico Drive, east of Bay Isles Road, and west of Bay Isles Parkway in the Town of Longboat Key, Florida. Figure 1 illustrates the site location. The analyses were conducted in accordance with the approved methodology dated April 15, 2021 and with the procedures consistent with Section 158.030 of the Town's Land Development Code. The approved methodology, correspondence with Town staff, and preliminary concept plan are provided in Appendix A.

The Town Center Park is proposed to consist of outdoor and indoor venue space. As indicated during the Town Commission Meeting on May 4, 2020, the indoor area is anticipated to be utilized for a variety of uses including but not limited to community center, recreational center, library, cultural and educational centers, meeting space, etc. As indicated in Table 1, for the purposes of the traffic impact analysis and the parking assessment, approximately 86,500 square feet (about 2 acres) of the site was analyzed as Public Park use and approximately 37,800 square feet of the site was analyzed as Recreational Community Center use.

ITE TRIP GENERATION MANUAL CONCEPT PLAN INFORMATION LAND USE CODE (LUC) CLASSIFICATION LUC 495 Concept Area LUC 411 Use Area (SF) (Recreational Plan ID (SF) (Public Park) Community Center) 1 Stage Pad 1,000 2 Great Lawn 23,000 3 9,200 Esplanade 86,500 SF 86,500 (1.986 Acres) 4 10,800 Ped Walkways 5 Restroom Facility 500 8 42,000 Sod 10 11,200 **Building Pad A** х2 37,800 37,800 SF 11 Building Pad B 7,700 х2

Table 1: Longboat Key Town Center Park Proposed Land Uses

Note: SF = square feet

Vehicular access is proposed via two existing full-access driveways along Bay Isles Road, as indicated in Figure 1.

The traffic impact analysis and parking assessment analyze the following:

Traffic Impact Analysis

Existing (2021) Conditions

- Weekday PM peak-hour
- Saturday PM peak-hour

Buildout (estimated 2022) Conditions

- Weekday PM peak-hour
- Saturday PM peak-hour



Parking Assessment

Buildout Typical (not special event)

- Weekday p.m. peak-hour
- Saturday p.m. peak-hour

Buildout Special Event

- Small special event
 - o Event that may happen on a weekday evening, such as a food truck event on the esplanade
- Medium special event
 - o Event when the great lawn is used at 50% of its capacity, such as a monthly concert series
- Large special event
 - Event when the great lawn is at maximum capacity of 2,500 people standing, such as a Fourth of July event

A description of the project and the results of the analyses are provided below.

Figure 1: Project Location





EXISTING CONDITIONS

Analysis of the existing traffic conditions at the study roadways and intersections was conducted to provide a basis of comparison with future scenarios. Weekday and weekend PM peak period (4:00 PM to 6:00 PM) intersection turning movement counts were collected on Wednesday, April 21, 2021, Saturday, April 24, 2021, and Sunday, April 25, 2021 at the following study intersections:

- Bay Isles Parkway & Bay Isles Road
- Bay Isles Road & Park Driveway
- Bay Isles Parkway & Gulf of Mexico Drive
- Bay Isles Road & Gulf of Mexico Drive
- Bay Isles Road & Internal Intersection

The turning movement volumes at the study intersections were higher on Saturday than on Sunday; therefore, the weekend analyses were conducted for Saturday conditions.

The turning movement counts are provided in Appendix B. As discussed with the Town of Longboat Key staff on April 6, 2021, turning movement counts collected in April were adjusted to peak season using the most recent Florida Department of Transportation (FDOT) Peak Season Factor Category Report for Sarasota County Beaches. The weekday and weekend turning movement volumes were increased by a peak season factor of 1.52, as indicated in the attached FDOT data in Appendix C.

The weekday and weekend PM peak-hour turning movement volumes, adjusted for local peak season factors, for the study intersections are shown in Figure 2 and Figure 3.

Synchro (v10) software was used to determine existing (2021) weekday and weekend PM peak-hour operational conditions for the study area intersections. Signal timing and phasing for the signalized intersection of Bay Isles Parkway & Gulf of Mexico Drive is provided in Appendix D.

Roadway Capacity Analysis

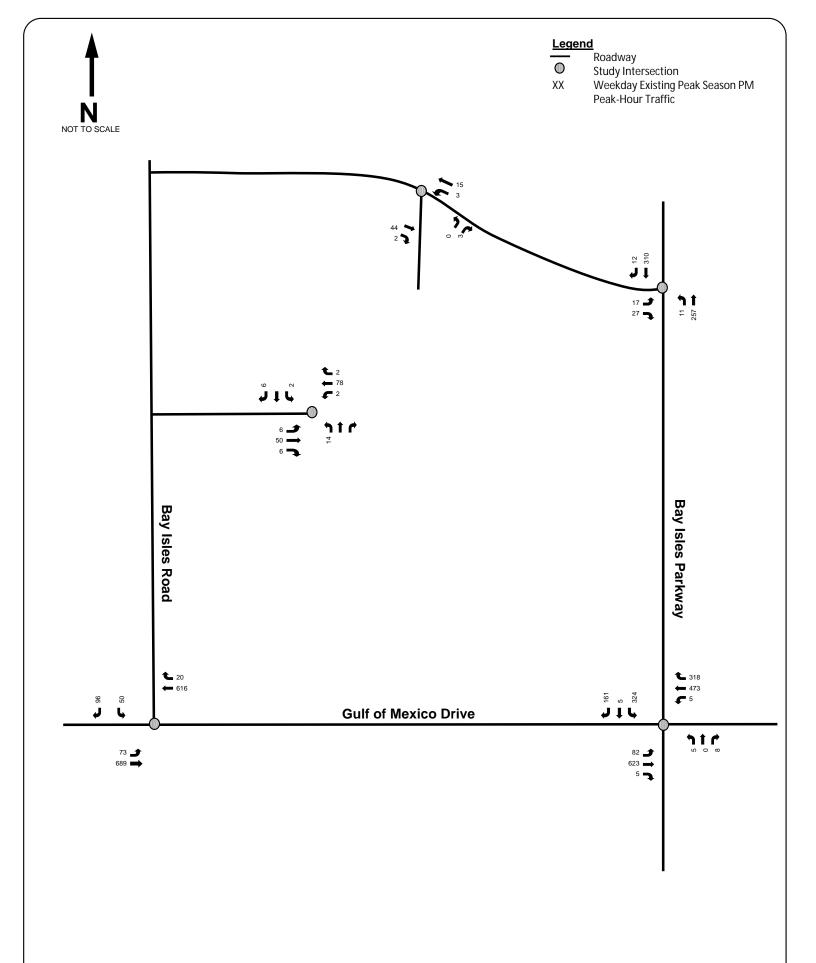
The study area roadway segments were determined to be the first directly accessed segments of Gulf of Mexico Drive, Bay Isles Parkway, and Bay Isles Road. According to Section 158.030(D)(1)(a) of the Town's Land Development Code, the level of service (LOS) standard is C for local and collector roads and E for Gulf of Mexico Drive. Level of service (LOS) standard volumes were obtained from the Sarasota County Generalized Level of Service Tables, provided in Appendix E. Existing, peak season adjusted turning movement counts at the study intersections were used to determine the two-way peak-hour volumes along the study roadway segments.

As indicated in Table 2 and Table 3, the roadway segments currently operate at an acceptable LOS during existing (2021) weekday and weekend PM peak-hour conditions.

Intersection Operational Analysis

According to Section 158.030(D)(1)(a) of the Town's Land Development Code, the LOS standard is E for all intersections on Gulf of Mexico Drive and D for all other intersections. A summary of intersection LOS and maximum volume to capacity (v/c) ratios by approach for the existing (2021) weekday and weekend PM peak-hour operational conditions is provided in Table 4 and Table 5. As indicated in Table 4 and Table 5, the intersections currently operate at an acceptable LOS during existing (2021) weekday and weekend PM peak-hour conditions.

Synchro output worksheets are provided in Appendix F.





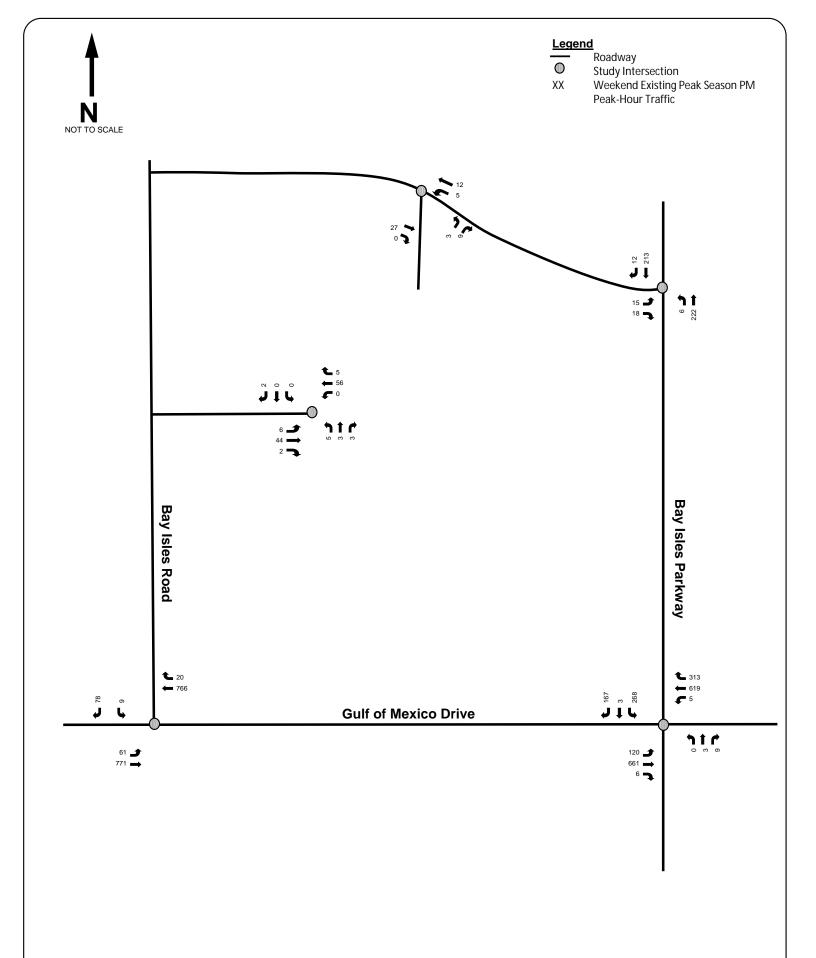




Table 2: Existing (2021) Weekday PM Peak-Hour Roadway Analysis

			Se	ervice Volun	2021	Exceeds	
Roadway	From To		Road Laneage	LOS Standard	LOS Service Volumes ¹	Existing Volumes ²	LOS Standard?
Gulf of Mexico Drive	Northern County Line	Bay Isles Road	2	E	2,920	1,474	No
Gulf of Mexico Drive	Bay Isles Parkway	New Pass Bridge	2	E	2,920	1,751	No
Bay Isles Parkway	Gulf of Mexico Drive	Bay Isles Road	4	С	2,628	757	No
Bay Isles Road	Bay Isles Parkway	Existing Driveway	2	С	1,197	239	No
Bay Isles Road	Existing Driveway	Bay Isles Road	2	С	1,197	239	No

- 1. Service volumes from Sarasota County Generalized Level of Service Tables
- 2. Existing seasonally adjusted volumes based on turning movement counts at the intersections during the PM peak-hour

Table 3: Existing (2021) Weekend PM Peak-Hour Roadway Analysis

			Se	ervice Volun	2021	Exceeds LOS Standard?	
Roadway From		То	Road Laneage	LOS Standard	LOS Service Volumes ¹		Existing Volumes ²
Gulf of Mexico Drive	Northern County Line	Bay Isles Road	2	E	2,920	1,676	No
Gulf of Mexico Drive	Bay Isles Parkway	New Pass Bridge	2	E	2,920	1,875	No
Bay Isles Parkway	Gulf of Mexico Drive	Bay Isles Road	4	С	2,628	679	No
Bay Isles Road	Bay Isles Parkway	Existing Driveway	2	С	1,197	168	No
Bay Isles Road	Existing Driveway	Bay Isles Road	2	С	1,197	168	No

- 1. Service volumes from Sarasota County Generalized Level of Service Tables
- 2. Existing seasonally adjusted volumes based on turning movement counts at the intersections during the PM peak-hour



Table 4: Existing (2021) Weekday PM Peak-Hour Intersection Analysis

Intersection	Overall	Eastbound	Westbound	Northbound	Southbound
Pay Islas Darkway & Pay Islas Dood	n/a	В		А	
Bay Isles Parkway & Bay Isles Road	II/a	0.06		0.01	
Bay Isles Road & Park Driveway	n/a		А	А	
	11/ a		0.01	0.01	
Gulf of Mexico Drive & Bay Isles	С	В	С	В	С
Parkway	C	0.67	0.71	0.03	0.74
Gulf of Mexico Drive & Bay Isles Road	n/a	А			С
Guil of Mexico Drive & Bay Isles Road	11/ a	0.09			0.46
Pay Islas Doad & Internal Intersection	А	А	А	Α	А
Bay Isles Road & Internal Intersection	A	0.01	0.01	0.02	0.01

Note: Two-way stop-controlled intersections do not have an overall LOS

Table 5: Existing (2021) Weekend PM Peak-Hour Intersection Analysis

Intersection	Overall	Eastbound	Westbound	Northbound	Southbound
Bay Isles Parkway & Bay Isles Road	n/a	В		А	
Day Isles Parkway & Day Isles Ruau	11/ a	0.05		0.01	
Bay Isles Road & Park Driveway	n/a		А	А	
	n/a		0.01	0.01	
Gulf of Mexico Drive & Bay Isles	С	В	С	С	С
Parkway	C	0.65	0.8	0.03	0.72
Gulf of Mexico Drive & Bay Isles Road	n/a	В			С
Guil of Mexico Drive & Bay Isles Road	11/ a	0.09		-	0.28
Bay Isles Road & Internal Intersection	А	А	А	А	А
bay isies road & internal intersection	A	0.01	0.01	0.01	0.01

Note: Two-way stop-controlled intersections do not have an overall LOS



FUTURE CONDITIONS

Background Traffic

For the purposes of this analysis, 2022 was considered the buildout year and, thus, 2022 conditions were evaluated as the "future" year scenario. Future traffic volumes consist of two components: project traffic and background (non-project background traffic) traffic estimates. Future background traffic is defined as non-project traffic on the roadway network in the future year at buildout of the proposed project. The existing (2021) peak season traffic volumes were grown to the year 2022 using the growth rate of two percent (2.6%) which was calculated based upon over five years of historic AADT volumes for Gulf of Mexico Drive north of Longboat Club Road provided by FDOT. Documentation of the growth rate calculation is provided in Appendix G.

Project Traffic

Trip Generation

The Town Center Park is proposed to consist of outdoor and indoor venue space. As indicated during the Town Commission Meeting on May 4, 2020, the indoor area is anticipated to be utilized for variety of uses including but not limited to: community center, recreational center, library, cultural and educational centers, meeting space, etc.

The trip generation potential of the site was based on the Institute of Transportation Engineers (ITE) publication: *Trip Generation Manual*, 10th Edition. The weekday PM peak-hour trip generation potential of the site is summarized in Table 6. The weekend (Saturday) PM peak-hour trip generation potential of the site is summarized in Table 7.

Directional Distribution Gross Trips ITE Land Land Use Scale Units Use Code In Out In Out Total Public Park 411 1.986 **ACRE** 55% 45% 13 10 23 37.8 Recreational Community Center 495 **KSF** 47% 53% 55 62 117 Total Weekday PM Peak-Hour Trips 72 68 140

Table 6: Weekday PM Peak-Hour Trip Generation

	Table 7: Weeker	d (Saturda	v) PM Peak-Hou	ur Trip Generation
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Land Use	ITE Land	Scale	Units -	Directional Distribution		Gross Trips		
Land Use	Use Code			In	Out	In	Out	Total
Public Park	411	411 1.986 ACRE 55% 45%						27
Recreational Community Center	495 37.8 KSF 54% 46%						18	40
Total Weekend (Saturday) PM Peak-Hour Trips							30	67



Project Trip Distribution and Assignment

The project trip distribution and assignment were based upon the traffic counts conducted at the study intersections. The project trip distribution was assigned to the surrounding network and study intersections as shown in Figure 4 for the weekday PM peak-hour and Figure 5 for the weekend PM peak-hour. Figure 6 and Figure 7 illustrate the project trips for the weekday PM peak-hour and the weekend PM peak-hour, respectively. Figure 8 and Figure 9 illustrate the future total weekday PM peak-hour volumes and the future total weekend PM peak-hour volumes at the study intersections.

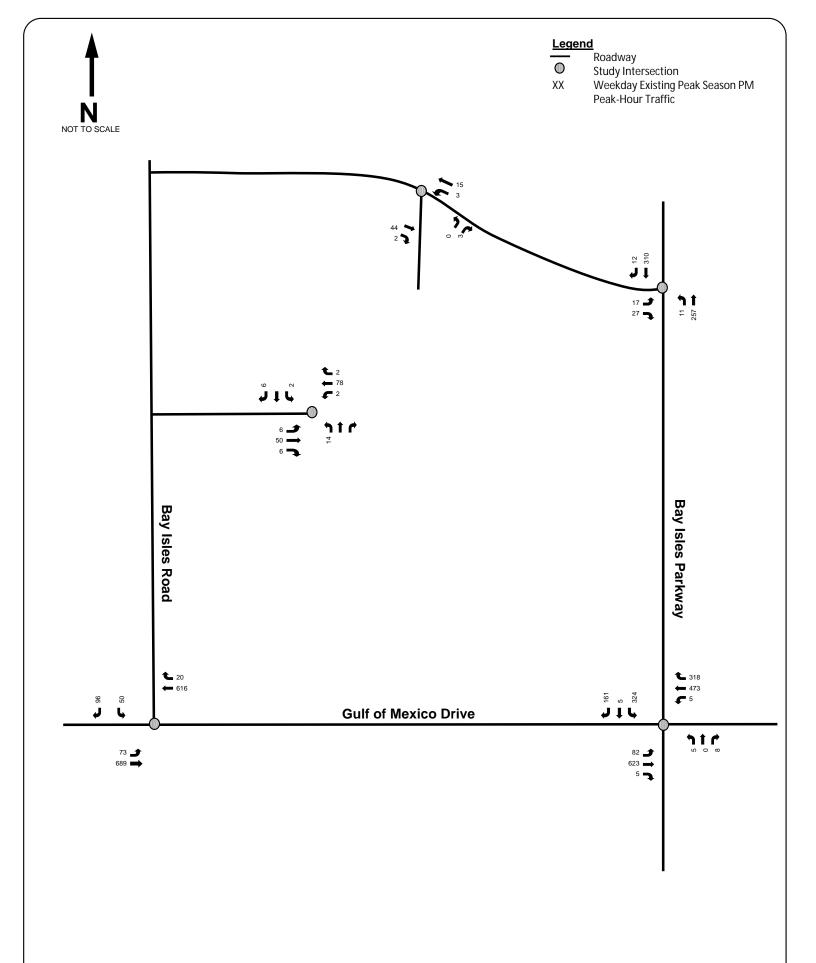
Roadway Capacity Analysis

As indicated in Table 8 and Table 9, the roadway segments are anticipated to continue operating at an acceptable LOS with the addition of future background and project traffic volumes during weekday and weekend PM peak-hour conditions.

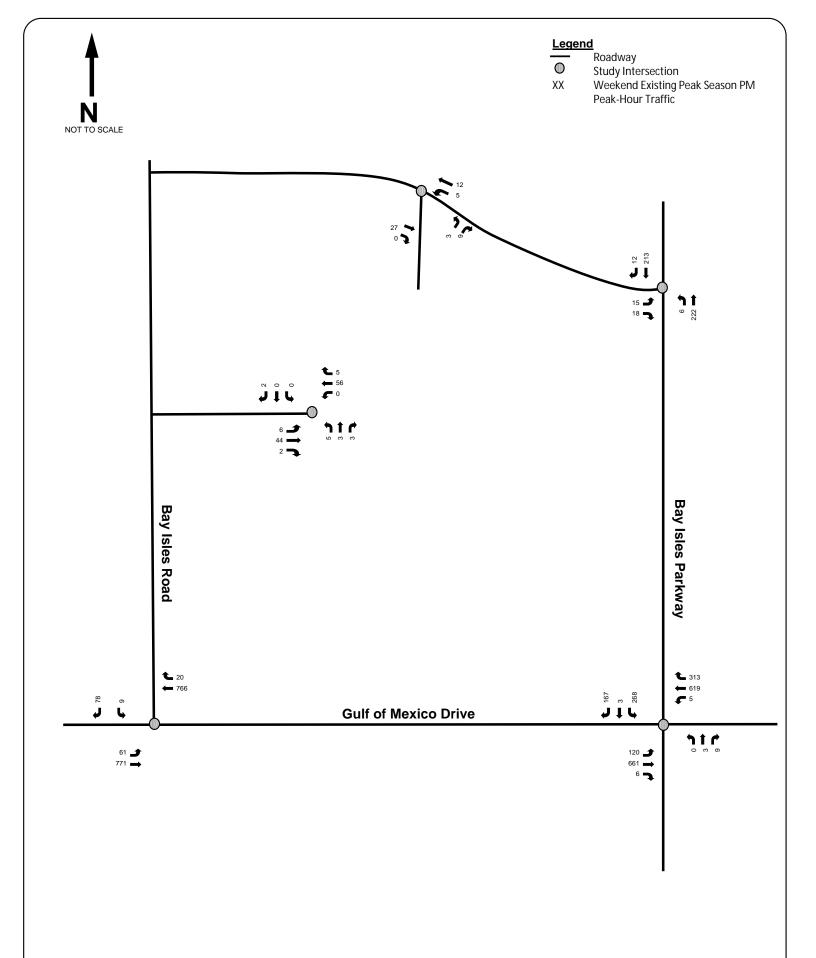
Intersection Operational Analysis

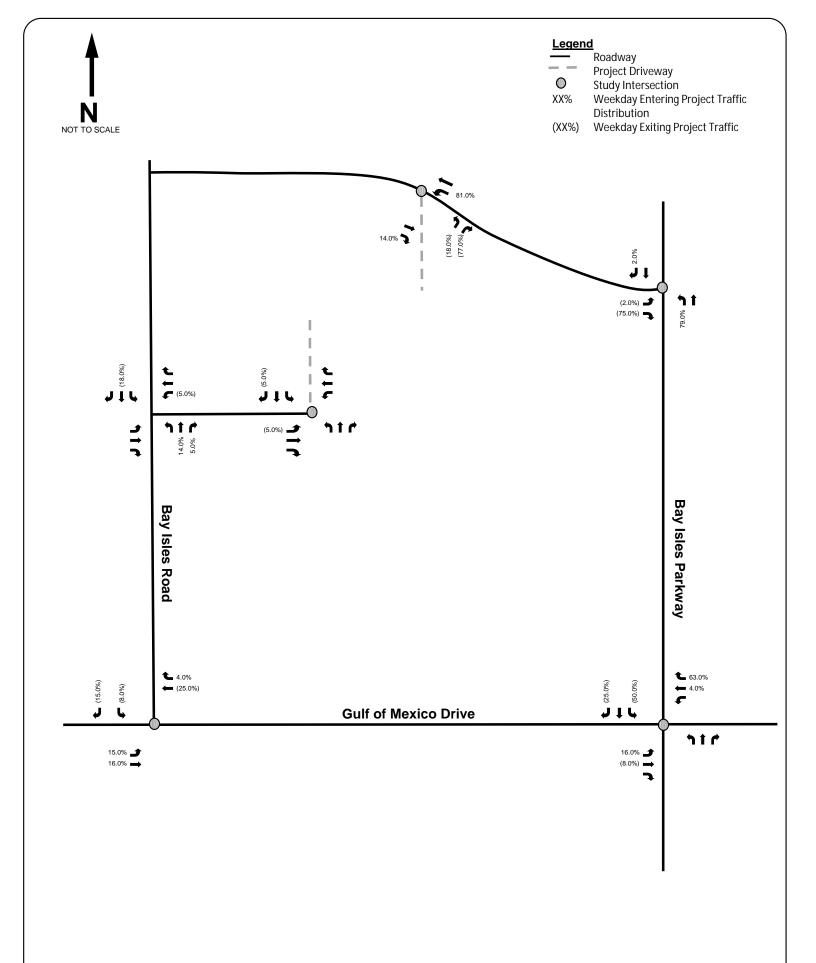
A summary of intersection LOS and maximum volume to capacity (v/c) ratios by approach for the future weekday and weekend PM peak-hour operational conditions is provided in Table 10 and Table 11. As indicated in Table 10 and Table 11, the intersections are anticipated to continue operating at an acceptable LOS during weekday and weekend PM peak-hour conditions.

Synchro output worksheets are provided in Appendix F.

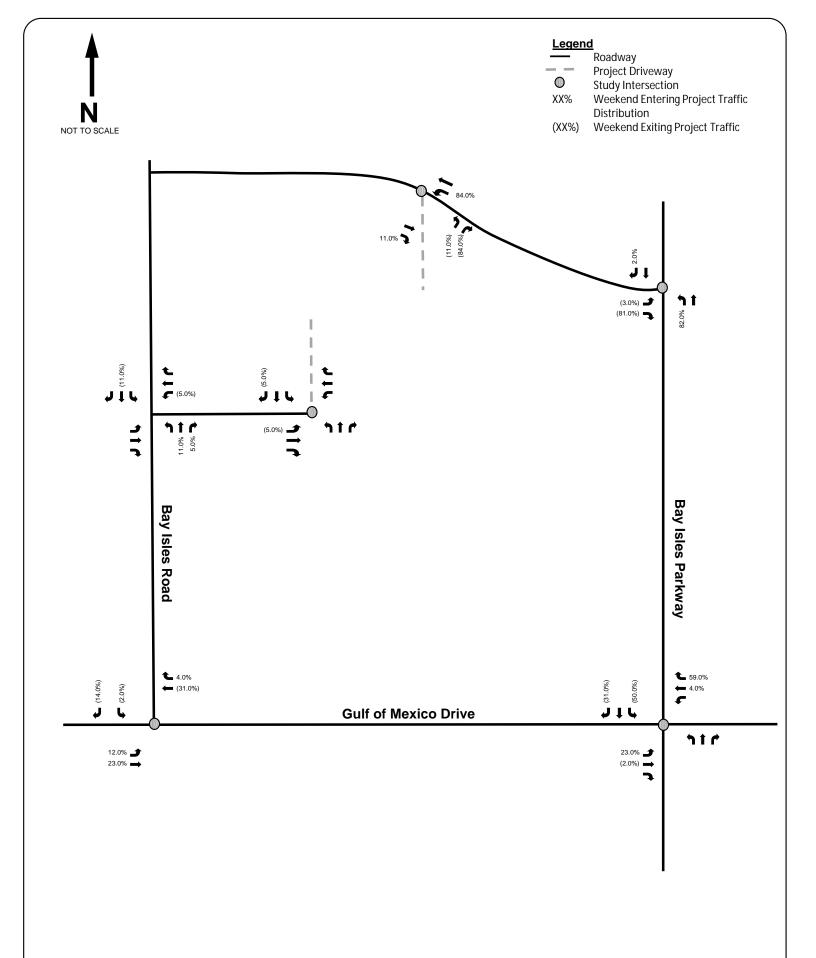




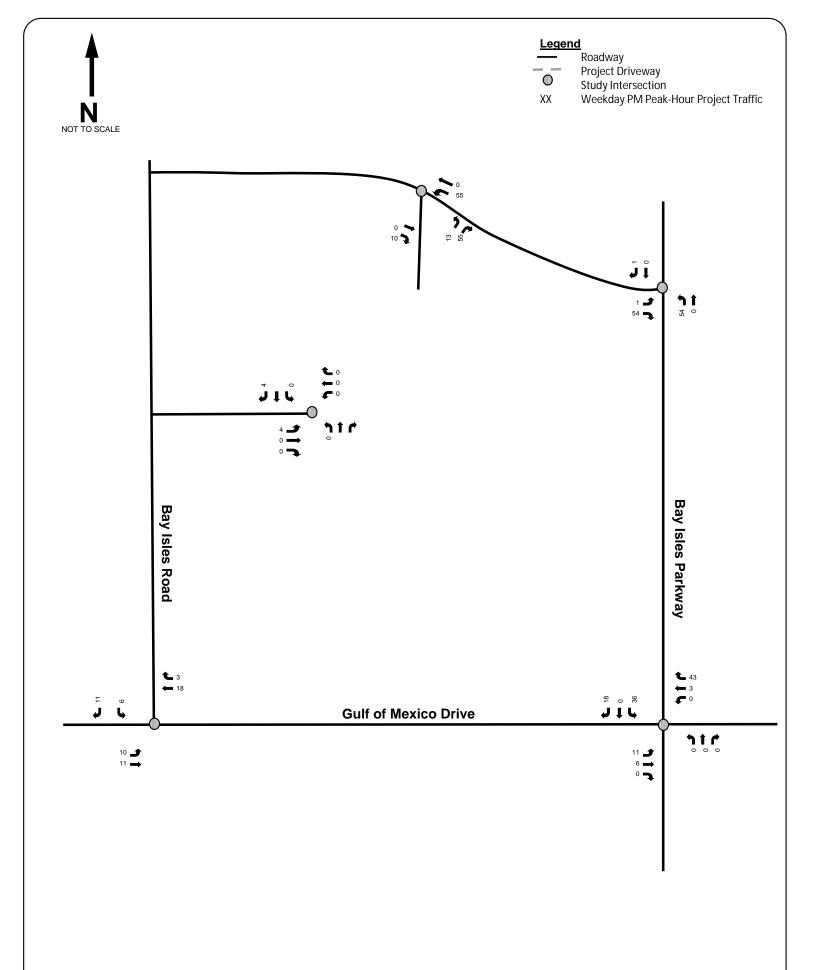




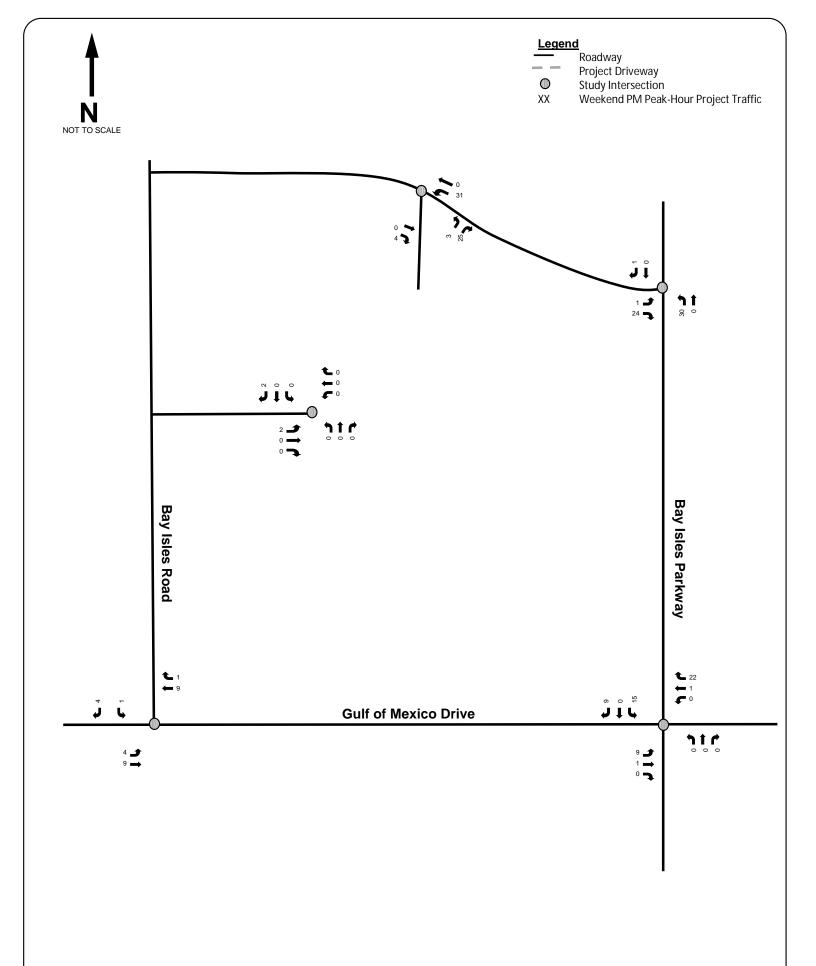




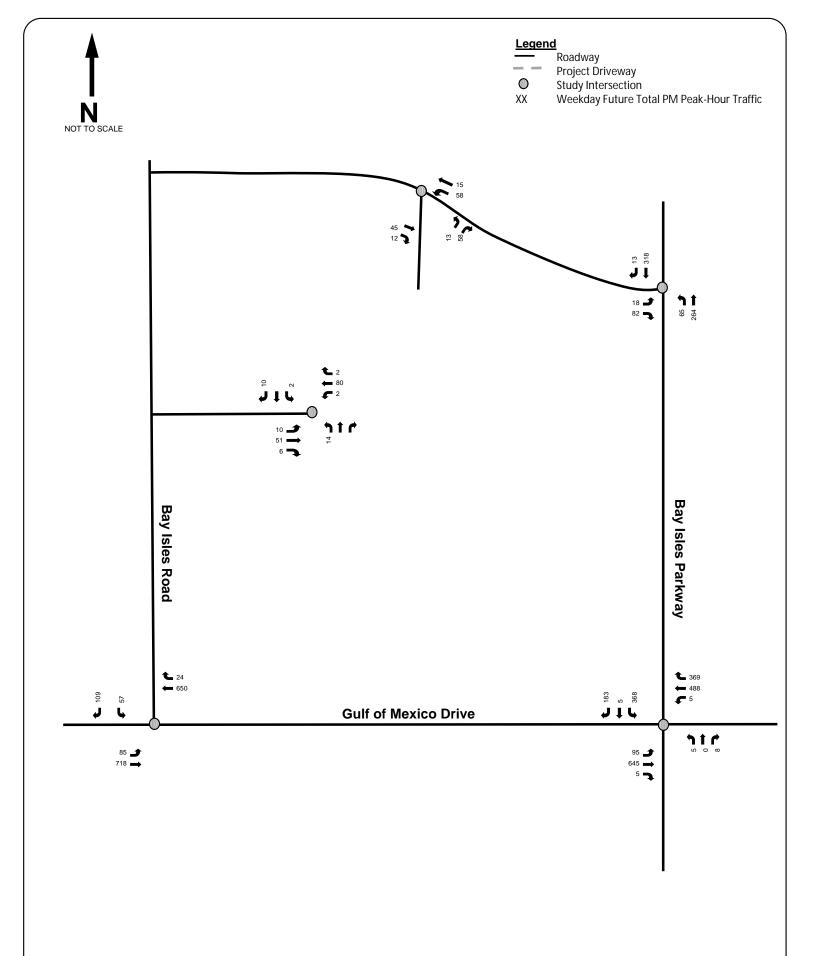














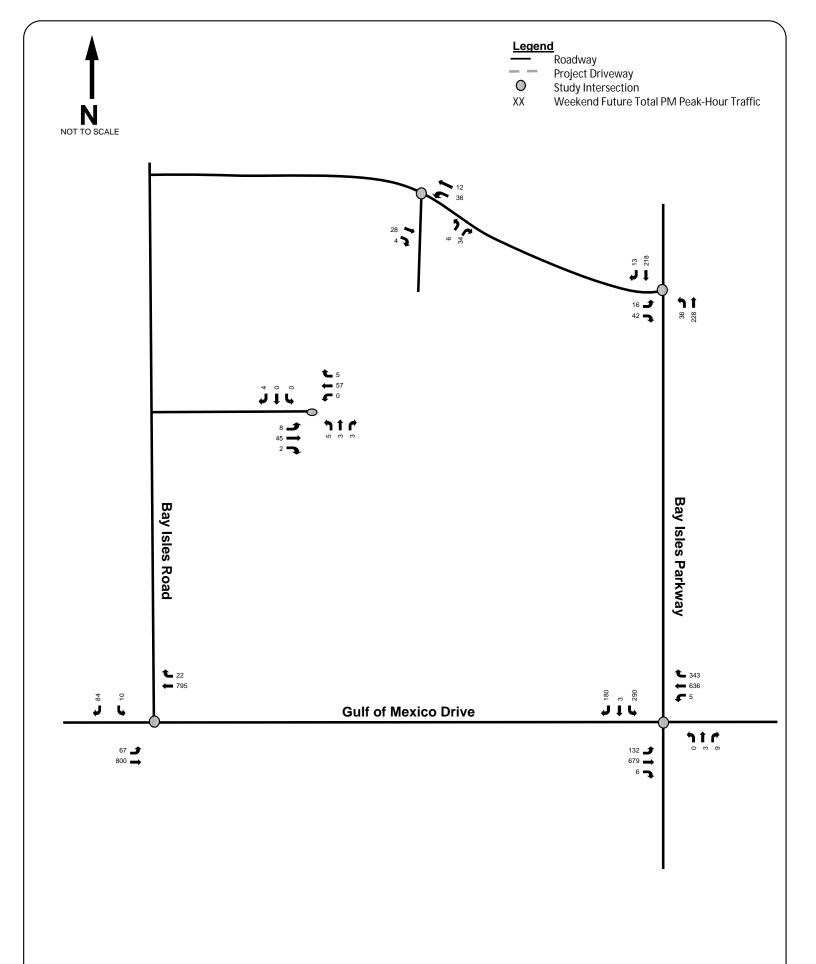






Table 8: Future Weekday PM Peak-Hour Roadway Analysis

			Se	ervice Volun	nes	2021	2022		2022	Exceeds
Roadway	From	То	Road Laneage	LOS Standard	LOS Service Volumes ¹	Existing Volumes ²	Background Volumes ³	Project Volumes	Total Volumes	LOS Standard?
Gulf of Mexico Drive	Northern County Line	Bay Isles Road	2	E	2,920	1,474	1,512	50	1,562	No
Gulf of Mexico Drive	Bay Isles Parkway	New Pass Bridge	2	E	2,920	1,751	1,797	88	1,885	No
Bay Isles Parkway	Gulf of Mexico Drive	Bay Isles Road	4	С	2,628	757	777	108	885	No
Bay Isles Road	Bay Isles Parkway	Existing Driveway	2	С	1,197	239	245	110	355	No
Bay Isles Road	Existing Driveway	Bay Isles Road	2	С	1,197	239	245	30	275	No

- 1. Service volumes from Sarasota County Generalized Level of Service Tables
- 2. Existing seasonally adjusted volumes based on turning movement counts at the intersections during the PM peak-hour
- 3. Background future volumes calculated by increasing existing volumes by 2.6%

Table 9: Future Weekend PM Peak-Hour Roadway Analysis

			Se	ervice Volun	nes	2021	2022 Background Volumes ³	Project Volumes	2022	Exceeds
Roadway From	То	Road Laneage	LOS Standard	LOS Service Volumes ¹	2021 Existing Volumes ²	Total Volumes			LOS Standard?	
Gulf of Mexico Drive	Northern County Line	Bay Isles Road	2	E	2,920	1,676	1,720	26	1,746	No
Gulf of Mexico Drive	Bay Isles Parkway	New Pass Bridge	2	E	2,920	1,875	1,924	39	1,963	No
Bay Isles Parkway	Gulf of Mexico Drive	Bay Isles Road	4	С	2,628	679	697	55	752	No
Bay Isles Road	Bay Isles Parkway	Existing Driveway	2	С	1,197	168	172	56	228	No
Bay Isles Road	Existing Driveway	Bay Isles Road	2	С	1,197	168	172	11	183	No

- 1. Service volumes from Sarasota County Generalized Level of Service Tables
- 2. Existing seasonally adjusted volumes based on turning movement counts at the intersections during the PM peak-hour
- 3. Background future volumes calculated by increasing existing volumes by 2.6%



Table 10: Future Weekday PM Peak-Hour Intersection Analysis

Intersection	Overall	Eastbound	Westbound	Northbound	Southbound
Pay Islas Darkway & Pay Islas Dood	n/a	В		А	
Bay Isles Parkway & Bay Isles Road	11/ a	0.06		0.16	
Pay Islas Doad & Dark Drivoway	n/a		А	А	
Bay Isles Road & Park Driveway	n/a		0.04	0.08	
Gulf of Mexico Drive & Bay Isles	С	В	С	С	D
Parkway	C	0.69	0.72	0.04	0.89
Gulf of Mexico Drive & Bay Isles Road	n/a	А			D
Guil of Mexico Drive & Bay Isles Road	11/ a	0.11			0.56
Pay Islas Doad & Internal Intersection	٨	А	А	А	А
Bay Isles Road & Internal Intersection	Α	0.01	0.01	0.02	0.01

Note: Two-way stop-controlled intersections do not have an overall LOS

Table 11: Future Weekend PM Peak-Hour Intersection Analysis

Intersection	Overall	Eastbound	Westbound	Northbound	Southbound
Bay Isles Parkway & Bay Isles Road	n/a	В		А	
bay isles Pai Kway & bay isles Kuau	11/ a	0.08		0.03	
Bay Isles Road & Park Driveway	n/o		А	А	
	n/a		0.03	0.04	
Gulf of Mexico Drive & Bay Isles	С	В	С	С	D
Parkway	C	0.66	0.81	0.03	0.79
Gulf of Mexico Drive & Bay Isles Road	n/o	В			С
Guil of Mexico Drive & Bay Isles Road	n/a	0.1			0.32
Bay Isles Road & Internal Intersection	А	А	А	А	А
bay isies road & internal intersection	A	0.01	0.01	0.01	0.01

Note: Two-way stop-controlled intersections do not have an overall LOS



Turn Lane Analysis

Gulf of Mexico Drive

Exclusive left-turn lanes currently exist at the intersections of Bay Isles Road & Gulf of Mexico Drive and Bay Isles Parkway & Gulf of Mexico Drive. An exclusive right-turn lane currently exists at the intersection of Bay Isles Parkway & Gulf of Mexico Drive.

A right- turn lane warrant evaluation was completed using the Florida Department of Transportation (FDOT) *Access Management Guidebook* to determine if a westbound right-turn lane is warranted at Bay Isles Road & Gulf of Mexico Drive. As the adjacent roadway segment has a speed limit of 45 miles per hour, the criteria for warranting a right-turn lane (as defined in FDOT's *Access Management Guidebook*) is 80 to 125 right-turns per hour. The anticipated weekday and weekend PM peak-hour westbound right-turn trips indicate that a right-turn lane is not warranted. The existing storage lengths at the turn lanes are anticipated to be sufficient to accommodate future traffic following buildout of the Town Center Park.

Project Driveways on Bay Isles Road

Exclusive left-turn lanes currently exist at the project driveways on Bay Isles Road. As indicated in Figure 8 and Figure 9, the future project traffic is not anticipated to exceed 80 to 125 right-turns per hour; therefore, right-turn lanes are not warranted at the project driveways on Bay Isles Road.



LONGBOAT KEY TOWN CENTER PARK PARKING ASSESSMENT

Summary of Findings

The Longboat Key Town Center Park parking assessment analyzes two topics. Topic 1 analyzes the on-site parking needs for typical (not special event) use of the great lawn and proposed buildings. Topic 2 analyzes parking needs for different size special event scenarios at the Town Center Park.

The current master site plan has 78 parking spaces. The maximum allowable size of the two building pads on site is two stories. This is the size of development used for the Town Center Park traffic analysis and the parking assessment.

The Longboat Key code requires 100 spaces for the Town Center Park two-story recreational community center buildings and the public park (great lawn). This requirement exceeds the 78 spaces shown on the master site plan by 28%.

Because daily use of the park and buildings will vary by time of day and day of week, a shared parking analysis is conducted. This type of analysis helps identify parking efficiencies when land uses do not have the same peak period parking demands. The shared parking analysis estimates that 89 spaces are needed on site for the park and buildings.

Given the civic amenities desired at the Town Center Park, the development of the buildings should not be limited by the need for 11 additional spaces. One potential solution is to develop a shared parking agreement with an adjacent property to accommodate the estimated parking demand during peak periods. Another solution is to accommodate parking needs at adjacent or nearby properties. A shared parking agreement between the Town and a property owner would allow the Town to benefit from maximizing Town Center Park development for public benefit and be more efficient with the parking available in the area.

Additionally, multimodal strategies can be used to manage vehicle demand, such as enhanced bike parking. These strategies can make more efficient use of the on-site parking spaces.

For special events, small and medium sized events can be accommodated by working with near-by property owners to share parking. For a large event, it is estimated that parking demand exceeds the study area's parking supply.

Because a large special event may only happen once a year, there are industry best practices that communities use to manage parking demand. Examples include special event parking pricing, off-site parking with shuttle services to distribute parking demand over a larger area, or incentives for people to walk, ride a bike, or take public transportation.

The technical details and assumptions used to develop these findings are on the subsequent pages of this report.



On-Site Parking Assessment

The development program used for the on-site parking needs is the same as the program used for the traffic analysis. The uses, as noted on the master site plan, are a public park (86,500 SF) and two two-story recreational community center or multi-use buildings (37,800 SF).

The Longboat Key Parking requirements are noted in **Table 12** below. In total, 100 parking spaces are required by code for the Town Center Park development program.

Parking Ratio Intensity **Parking Spaces Notes** Museums/Cultural Center 37,800 SF 95 (1 space/400 SF) Patrons and employees Park for the public park are 10 Patrons 5 (1 space/3 patrons plus 1 estimated using the ULI 1 Employee space/employee on largest shift) Shared Parking Model 3rd Edition Total 100

Table 12: Longboat Key Town Center Park Off-Street Parking Code Requirements

The Town Center Park master site plan includes 78 parking spaces. The Longboat Key code requires 28% more parking than is currently included in the master site plan.

Because daily use of the park and buildings will vary by time of day and day of week, a shared parking analysis is conducted. This type of analysis helps identify parking efficiencies when land uses do not have the same peak period parking demands. The *ULI Shared Parking Model 3rd Edition* is used for the shared parking analysis.

As indicated in **Table 13**, the shared parking analysis estimates that 89 spaces are needed on site for the park and buildings. This estimate provides a 12% reduction is parking spaces, which means a cost savings in real estate, construction, and maintenance requirements, as well as an opportunity to maximize the desired uses and activity on the site.

Peak Month: APRIL -- Peak Period: 12 PM, WEEKDAY Weekday Project Data Land Use Ratio Ratio 12 PM 10 AN Uni Public Park/Destination Open Space 4.00 4.00 5.00 5.00 85% 100% 30% 3 100% Employee 0.40 0.40 0.50 0.50 100% 75% Public Library 37,800 68 sf GLA 2.00 2.00 ksf GLA 1.90 1.90 ksf GLA 98% 95% 100% 95% 100% 100% 8 Employee 0.25 0.25 0.20 0.20 100% 10 100% 78 71 Customer/Visitor Employee/Resident 11 Employee/Resident 9 Reserved 80 Total Total

Table 13: Longboat Key Town Center Park Site Plan Shared Parking Analysis

*Note. The ULI Shared Parking Model does not have Recreational Community Center as a Land Use category. The ITE parking ratio for recreational community center is like the public library parking ratio used in the ULI Sharing Parking Model. For this analysis, they are used interchangeably.



Additionally, the parking demand exceeds the 78 spaces 7 months out of the year by an average of 7 spaces. The peak period is estimated to be weekdays, not weekends. **Table 14** summarizes weekday and weekend peak estimates by month.

Table 14: Longboat Key Town Center Park Site Plan Shared Parking Analysis – Peak Period Demand By Month and Time of Week

Monthly Comparison Summary			Monthly Comparison Summary		
Month	Weekday Overall Pk		Month	Weekend	
				Overall Pk	
	Time	Demand		Time	Demand
January	10 AM	67	January	10 AM	62
February	10 AM	67	February	10 AM	62
March	12 PM	72	March	10 AM	66
April	12 PM	78	April	10 AM	71
May	12 PM	84	May	10 AM	76
June	12 PM	84	June	10 AM	76
July	12 PM	84	July	10 AM	76
August	12 PM	84	August	10 AM	76
September	12 PM	89	September	10 AM	80
October	12 PM	89	October	10 AM	80
November	12 PM	82	November	10 AM	75
December	12 PM	61	December	10 AM	55
Late December	12 PM	44	Late December	10 AM	41

The need for on average 7 spaces and at most 11 spaces can easily be accommodated with parking at adjacent and near-by properties. One strategy is to use other public properties with available parking, like the tennis courts, library, or Town Hall. A second strategy is for the Town to negotiate a shared parking agreement with nearby or adjacent property owners, like Publix or Chase Bank.

Note that Section 158.100(F) and (G) of the Longboat Key Code of Ordinances describes the requirements for a shared parking agreement. In the code the agreement is referred to as a collective provision.

The code requires that shared parking must be from adjacent parcels or from parcels within 600 feet of the project parcel if both parcels are the same zoning classification. All the parcels studied for this analysis are within 600 feet of the Town Center parcels. Except for the tennis courts to the north of the Town Center, all parcels within 600 feet are the same zoning classification as the Town Center parcels. The zoning classification is MUC-1.

Finally, a parking assessment should be done when the final building program is determined for the two building pads. A parking assessment can determine if a shared parking agreement is needed to meet the off-street parking requirements for the Town Center property.



Special Event Parking Assessment

Three types of special events were analyzed. The type of event and a summary of findings are described in **Table 15**. Small and medium-sized events can be accommodated by working with near-by property owners to share parking. For a large event, it is estimated that parking demand exceeds the study area's parking supply.

Additionally, the purpose of the special event assessment is to understand the parking inventory around the Town Center Park. Many of the special events will take place in the evenings and weekends when properties adjacent to the Town Center Park will not be used. This situation creates an opportunity to be more efficient with parking spaces that are currently available.

Table 15: Longboat Key Town Center Park Special Event Parking Scenario Summary

Event Type	Event Description	Total Parking Spaces Needed for Event	Surplus/Deficit of Study Area Parking
Small Event	Small event that may happen on a weekday evening, such as a food truck event on the esplanade.	105	520
Medium Event	Moderately sized event where the great lawn is used at 50% of its capacity. An example event may be a concert series that happens once a month.	480	201
Large Event	Largest size event at the great lawn with a maximum capacity of 2,500 people standing. An example event may be something that occurs once or twice a year, such as a 4th of July event.	1,000	-397

For the special event parking assessment, properties along Bay Isle Drive were surveyed to document the number of parking spaces available on each property. The Publix property is not included in the parking space survey because it would typically be open during special event hours.

As summarized in **Table 16**, there are 681 total parking spaces available, which includes the 78 spaces associated with the Town Center Park property. **Figure 10** illustrates the properties surveyed and notes the number of parking spaces at each property.



Table 16: Surveyed Parcels Parking Count

Parcel Name	Parking Count	Operating Hours
Long Boat Key Town Hall + Tennis Courts	76	730am to 5pm
Longboat Key Library	17	Tuesday and Friday 10am to 1pm
All Angles Episcopal Church	67	Monday to Thursday 9am to 1pm Sunday 8am to 12pm Closed Friday and Saturday
Temple Beth Israel	128	530pm Friday Evening Service 10am Saturday Morning Service
United States Postal Service	64	Monday to Friday 830am to 430pm Saturday 9am to 12pm Closed Sunday
SCATA Real Estate	52	Monday to Friday 9am to 4pm
SunTrust	16	Monday to Friday 9am to 5pm Closed Saturday and Sunday
Bank of America	39	Monday to Friday 10am to 4pm Closed Saturday and Sunday
Town Center Park Parcel 1	0	n/a
Town Center Park Parcel 2	0	n/a
Town Center Park Parcel 3	78	n/a
Chase Bank	26	Monday to Friday 9am to 5pm Closed Saturday and Sunday
Long Boat Key Public Tennis Center	29	730am to 5pm
Mediterranean Plaza	89	7am to 9pm
Total	681	





Figure 10: Parking Count For Study Area Parcels



Below are the findings and assumptions for each special event scenario.

Small Event Scenario

The sample event used for this scenario is a food truck event during a weekday evening along the multi-purpose esplanade. Evening use of the Town Center Park and multi-purpose buildings is considered. The ULI Shared Parking Model is used to estimate the number of parking spaces needed for the Great Lawn and multi-purpose building.

There are 78 parking spaces on site at the Town Center Park. The ULI Shared Parking Model estimates that 56 spaces are needed for the multi-purpose buildings and great lawn during the event. and 105 spaces are needed for the food truck event. In total there is a need for 161 spaces. In summary, there is a need for 83 parking spaces in addition to the 78 spaced on site.

The demand for 83 spaces can be easily accommodated by using parking at civic buildings, like Town Hall and the library. Or if there are uses at these buildings during the same time as the event, a shared parking agreement can be negotiated with adjacent private properties. Several of them will have empty parking lots during the time of the event because it takes place after regular business hours.

Small Event Scenario Assumptions

- The event takes place on a weekday evening from 5 to 8pm.
- Food trucks are approximately 16 feet long and 7 feet wide.
- Esplanade is 20 feet wide so it can accommodate single row of food trucks to create aisle for walking and seating.
- Parallel parking space length is approximately 20 feet, so assumption is that one food truck will use two spaces for operations and buffer on either side of truck. This space requirement is 40 feet per truck.
- The 300-foot-long esplanade divided by 40 feet for each food truck equals approximately 7 trucks along the
 esplanade.
- Assumption is that each food truck can serve 30 customers per hour. This equals 210 customers per hour.
- Assumption is that customers are carpooling with an average of two people per vehicle. This equals 105 vehicles per hour.



Medium Event Scenario

The medium event scenario is a weekend evening event on the great lawn. Because this is an evening event on a weekend, it is assumed that the multipurpose building and general use of the great lawn do not create demand for parking spaces.

There are 78 parking spaces on site at the Town Center Park. For a medium-size event on the great lawn of 1,200 people, it is estimated that 480 parking spaces are needed. When all the 78 spaces are used, there is a need for 402 additional spaces for the event at the Town Center Park.

The parking demand for an event of this size can be accommodated within the Town Center Park area. Most of the parking within study area properties will be needed for an event of this size. Because these events take place outside of regular business hours, this type of strategy is feasible. Shared parking agreement and a special event parking and circulation plan should be developed to ensure safe access to parking locations and the event itself.

Medium Event Scenario Assumptions

- The scenario takes place on a weekend evening during peak season.
- The scenario assumes all attendees and event employees drive and that there are 2.5 persons per car.
- The great lawn can accommodate 1,200 people seated for an event.
- For this type of event, it is estimated that 480 spaces are needed.
- Parking for the event includes spaces for event attendees as well as employee parking for people working at the event.



Large Event Scenario

The large event scenario is a weekend evening event on the great lawn. Because this is an evening event on a weekend, it is assumed that the multipurpose building and general use of the great lawn do not create demand for parking spaces.

Considering the operational requirements for an event this size, the assumption is that the on-site parking area will be used for staging event operations and will not be available for parking use. This means the 78 on-site parking spaces would not be available for use.

For a large-size event on the great lawn of 2,500 people, it is estimated that 1,000 parking spaces are needed. The parking demand for the event this size exceeds the study area's parking supply.

Parking demand can be managed by using strategies to reduce demand, such as charging for parking and providing free shuttle services from other off-site parking locations. In addition to special event coordination with adjacent property owners to secure use of parking lots for an event, a special event transportation plan should be developed. The plan should consider:

- Event patron transportation strategy
- Event patron parking areas, including areas for bicycle and electric mobility vehicles
- Shuttle services
- Drop-off/pick-up sites
- Event employee parking and transportation strategy
- Staging areas for large vehicles and public safety event services
- Disabled parking and access strategy

Large Event Scenario Assumptions

- The scenario takes place on a weekend evening during peak season.
- The scenario assumes all attendees and event employees drive and that there are 2.5 persons per car.
- The great lawn can accommodate 2,500 people standing for an event.
- For this type of event, it is estimated that 1,000 spaces are needed.
- Parking for the event includes spaces for the event attendees as well as employee parking for people working at the event.
- Considering the operational requirements for an event this size, the assumption is that the on-site parking area will be used for staging event operations and will not be available for parking use.



APPENDICES



Appendix A:

TIS Methodology and Correspondence

Clark, Addie (Kraemer)

From: Isaac Brownman < IBrownman@longboatkey.org >

Sent: Wednesday, April 21, 2021 1:24 PM

To: Clark, Addie (Kraemer)

Cc: Allen Parsons; Alexandra Lowe-Mains; Maika Arnold; 'Chris Gallagher'; Joel Freedman;

Hatton, Christopher; Davis, Brad

Subject: RE: Town Center Venue

Categories: External

Good afternoon Addie,

The Town is good with the methodology...please proceed.

Thank you,

Isaac Brownman

Director | Town of Longboat Key Public Works

600 General Harris Street Longboat Key, Florida 34228 Ph. 941-316-1988 Ext. 2210

Cell 941-822-6876

ibrownman@longboatkey.org

"Longboat Key is a beautiful place to live, work, and visit where the natural assets of a barrier island combine with cultural and recreational amenities, visionary planning, and proactive leadership to enhance your way of life."

Note: Florida has a very broad public records law. Under Florida law, email addresses are considered public records. If you do not want your email address released in a response to a public records request, you should not send electronic email to this entity. Instead, you may wish to contact our office by phone or in writing. All written documents are also considered public record and open for inspection upon request.

From: Clark, Addie (Kraemer) < Addie. Clark@kimley-horn.com>

Sent: Thursday, April 15, 2021 3:13 PM

To: Maika Arnold <marnold@longboatkey.org>; Isaac Brownman <lBrownman@longboatkey.org>; 'Chris Gallagher'

<chris@hoytarchitects.com>; Joel Freedman <joel@jfreedmanconsulting.com>; Hatton, Christopher

<Christopher.Hatton@kimley-horn.com>; Davis, Brad <Brad.Davis@kimley-horn.com>

Cc: Allen Parsons < AParsons@longboatkey.org>; Alexandra Lowe-Mains < amains@longboatkey.org>

Subject: RE: Town Center Venue

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Thank you, Maika!

All, please see the attached Traffic Analysis Methodology that we have prepared based on our conversations earlier this month. Please let us know if the methodology is acceptable or if there are any questions.

Thank you!

Addie

Addie Clark (Kraemer), P.E.

Kimley-Horn | 655 North Franklin Street, Suite 150, Tampa, FL 33602

Direct: 813 635 5517 | Mobile: 561 319 4759

Connect with us: Twitter | LinkedIn | Facebook | Instagram | Kimley-Horn.com

Celebrating 13 years as one of FORTUNE's 100 Best Companies to Work For

*Please note e-mail change to addie.clark@kimley-horn.com

From: Maika Arnold < marnold@longboatkey.org >

Sent: Wednesday, April 7, 2021 2:35 PM

To: Isaac Brownman < lbrownman@longboatkey.org; 'Chris Gallagher' < chris@hoytarchitects.com; Joel Freedman < joel@jfreedmanconsulting.com; Hatton, Christopher < christopher.Hatton@kimley-horn.com; Kraemer, Addie

Addie.Kraemer@kimley-horn.com; Davis, Brad Brad.Davis@kimley-horn.com;

Cc: Allen Parsons < <u>AParsons@longboatkey.org</u>>; Alexandra Lowe-Mains < <u>amains@longboatkey.org</u>>

Subject: RE: Town Center Venue

Good afternoon,

I have confirmed that yesterday's meeting yesterday served as the Town's required pre-application conference.

Please let me know if you have any questions.

Thank you,

Maika Arnold, AICP
Senior Planner | Planning Zoning & Building Department
Town of Longboat Key | 501 Bay Isles Road | Longboat Key, FL 34228
(941)361-6411 ext. 2516 | www.longboatkey.org
marnold@longboatkey.org



From: Chris Gallagher <chris@hoytarchitects.com>

Sent: Tuesday, April 6, 2021 11:09 AM

To: Isaac Brownman < lBrownman@longboatkey.org; Joel Freedman < joel@jfreedmanconsulting.com; Hatton, Christopher < Christopher . Hatton@kimley-horn.com>; Kraemer, Addie < Addie. Kraemer@kimley-horn.com>; Davis, Brad

<Brad.Davis@kimley-horn.com>

Cc: Maika Arnold < marnold@longboatkey.org >; Allen Parsons < AParsons@longboatkey.org >

Subject: RE: Town Center Venue

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Got it. Thanks.



April 15, 2021

Mr. Isaac Brownman, Director Town of Longboat Key Public Works 600 General Harris Street Longboat Key, Florida 34228

RE: Methodology for Traffic Analysis Longboat Key Town Center Town of Longboat Key, Florida

Dear Mr. Brownman:

Pursuant to our discussion with the Town of Longboat Key staff and Hoyt Architects on April 6, 2021, the following traffic analysis methodology is provided for your review and comment.

Proposed Land Uses

The Town Center Park is proposed to consist of outdoor and indoor venue space. As indicated during the Town Commission Meeting on May 4, 2020, the indoor area is anticipated to be utilized for a variety of uses including but not limited to: community center, recreational center, library, cultural and educational centers, meeting space, etc.

The trip generation potential of the site will be based on the Institute of Transportation Engineers (ITE) publication *Trip Generation Manual*, 10th Edition. Table 1 summarizes the proposed uses and the ITE Land Use Codes (LUC) to be utilized to determine the trip generation potential of the site.

Table 1: Proposed Land Uses and ITE Trip Generation Land Use Codes

	CONCEPT PLAN	INFORMAT	ITE TRIP GENERATION MANUAL LAND USE CODE (LUC) CLASSIFICATION					
Concept Plan ID	Use	Area (:	SF)	Area (SF)	LUC 411 (Public Park)	LUC 495 (Recreational Community Center)		
1	Stage Pad	1,00	0					
2	Great Lawn	23,000						
3	Esplanade	9,20	0		86,500 SF			
4	Ped Walkways	10,80	00	86,500	(1.986 Acres)			
5	Restroom Facility	500						
8	Sod	42,00	00					
10	Building Pad A	11,200	х2	37,800		37,800 SF		
11	Building Pad B	7,700	х2	37,000				



For the purposes of this analysis, approximately 86,500 square feet (about 2 acres) of the site will be analyzed as Public Park use and approximately 37,800 square feet of the site will be analyzed as Recreational Community Center use.

Analysis Scenarios

The trip generation potential and operational analysis will be provided for the following scenarios:

- Existing (2021) Conditions
 - o Weekday p.m. peak-hour of adjacent street traffic
 - o Higher of either Saturday p.m. peak-hour of generator or Sunday p.m. peak-hour of generator
- Buildout (estimated 2022) Conditions
 - o Weekday p.m. peak-hour of adjacent street traffic
 - Higher of either Saturday p.m. peak-hour of generator or Sunday p.m. peak-hour of generator

Data Collection Activities

Kimley-Horn will utilize a traffic count subconsultant to undertake traffic counts at the following five (5) off-site intersections on one weekday, one Saturday or one Sunday during the p.m. peak-hour period (4:00 p.m. to 6:00 p.m.):

- Bay Isles Parkway & Bay Isles Road
- Bay Isles Road & Park Driveway
- > Bay Isles Parkway & Gulf of Mexico Drive
- Bay Isles Road & Gulf of Mexico Drive
- Bay Isles Road & Internal Intersection

As discussed with the Town of Longboat Key staff on April 6, 2021, turning movement counts collected in April will be adjusted to peak season using the Florida Department of Transportation (FDOT) Peak Season Factor Category Report for Sarasota County Beaches. Data collected between April 14th and April 25th will be increased by a factor between 1.03 and 1.06, as indicated in the attached FDOT data.

Project Trip Distribution

The project trip distribution and assignment to be used in this analysis will be based upon the results of the traffic counts conducted at the study intersections.

Detailed Traffic Impact Analysis

Kimley-Horn will prepare the traffic analysis for the five (5) study intersections and roadway segments within 0.5 mile of the site to determine impacts anticipated to be generated by the proposed development. Synchro version 10 software will be utilized to summarize intersection operations.

The results of the weekday p.m. peak-hour analysis will identify potential traffic issues at the study intersections that may need to be addressed as part of the transportation concurrency process

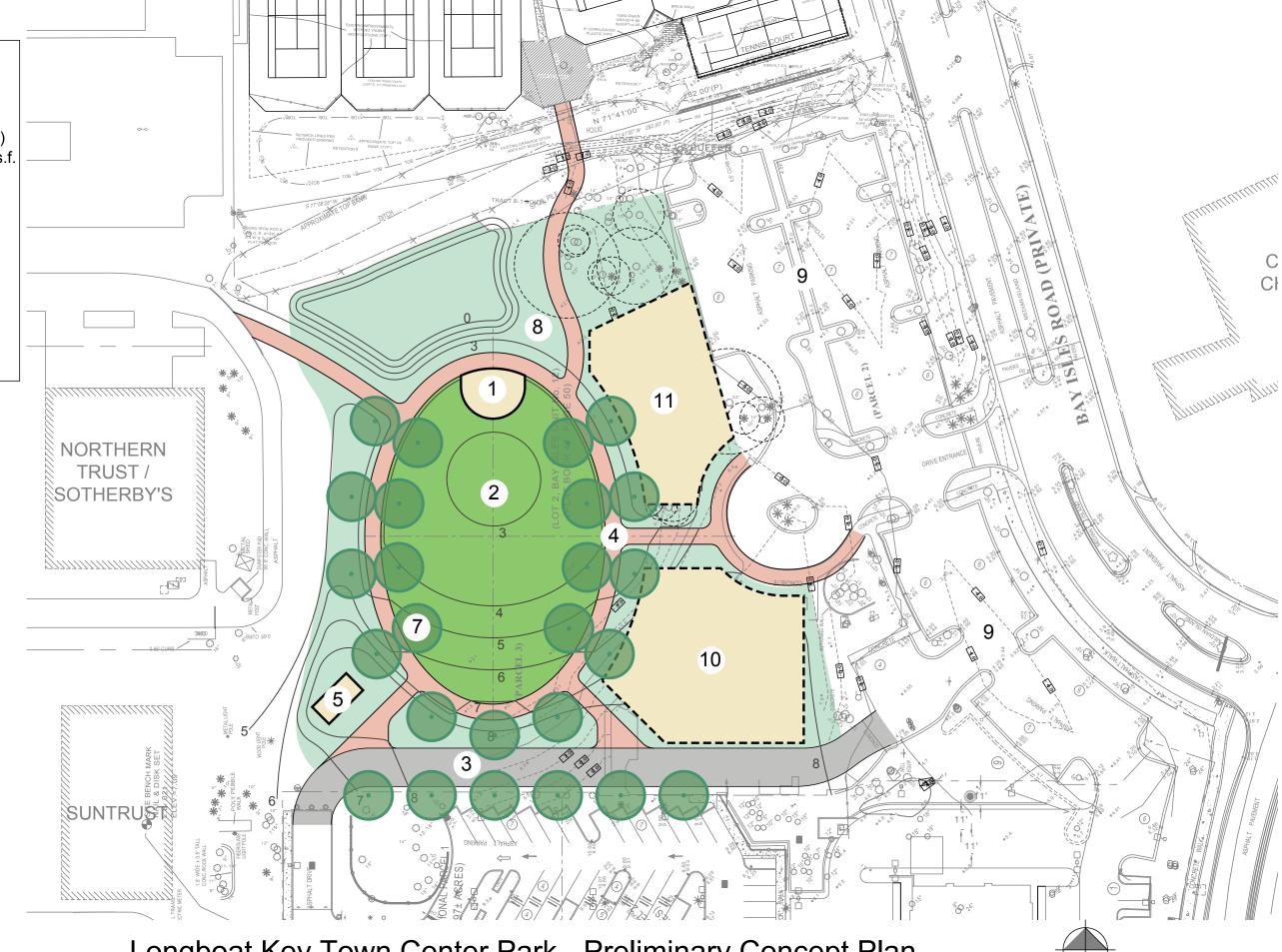


defined in Section 158.030 of the Town of Longboat Key *Code of Ordinances*. Turn lane analyses at up to three (3) project driveways will be conducted.

The results of the weekend peak-hour analysis will identify potential operational traffic issues that may need to be addressed for operational purposes.

Proposed Improvements:

- 1. Stage Pad 1,000 s.f.
- 2. Great Lawn 23,000 s.f.
 - -2,500 person concert (standing)
 - 1,200 person reception (seated)
- 3. Multi-Purpose Esplanade 9,200 s.f. 24' wide
- 4. Pedestrian Walkways 10,800 s.f.
 - 10' wide
- 5. Restroom Facility 500 s.f.
- 6. Pedestrian Light Poles 24 poles
- 7. Canopy Tree Allee 16 trees
- 8. Sod 42,000 s.f.
- 9. ± 94 Ex. On-Site Parking Spaces
- 10. Building Pad Site A 11,200 s.f.
- 11. Building Pad Site B 7,700 s.f.





Longboat Key Town Center Park - Preliminary Concept Plan

Town of Longboay Key, Florida
Scale: 1"=60'-0" Date: 04.22.2020

DATA COLLECTION LOCATIONS





Appendix B:
Turning Movement Counts





Site Code: **21-120145-001**

Date: **04/24/2021**

Weather: Sunny

City: Longboat Key

County: Sarasota

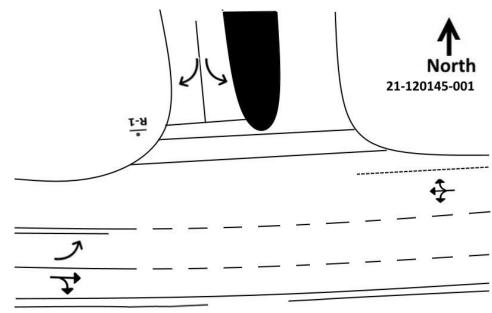
Count Times: **16:00 - 18:00**

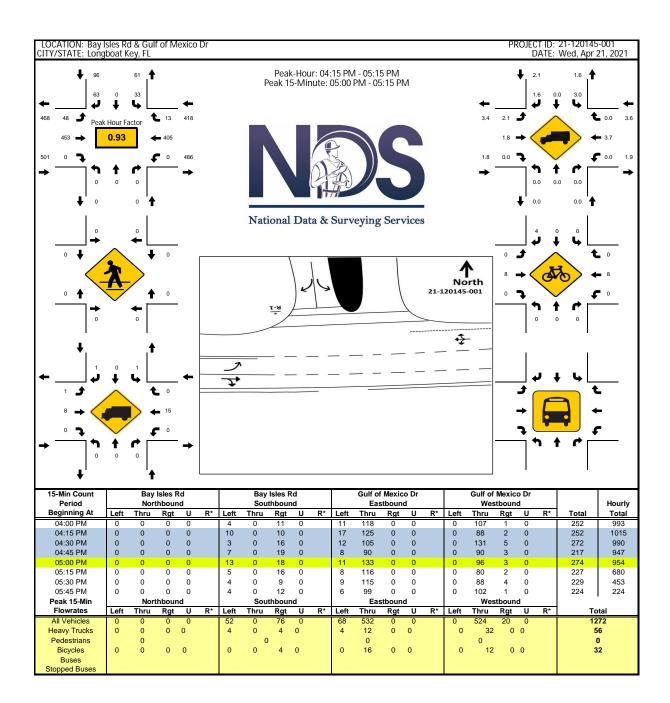
Control: 1-Way Stop (SB)

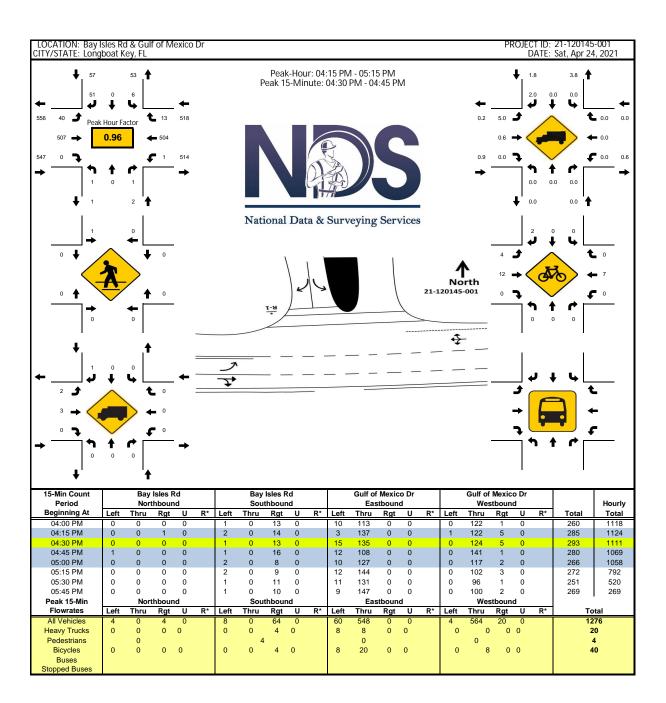


N/S Street: Bay Isles Rd

Speed: N/A









Site Code: **21-120145-002**

Date: **04/24/2021**

Weather: Sunny

City: Longboat Key

County: Sarasota

Count Times: **16:00 - 18:00**

Control: Signalized

SIGNAL TIMING

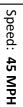
PHASES	1	2	3
NT/ST	00:29	00:23	00:23
EL/ET	00:19	00:17	-
ET/WT	00:50	00:52	00:55

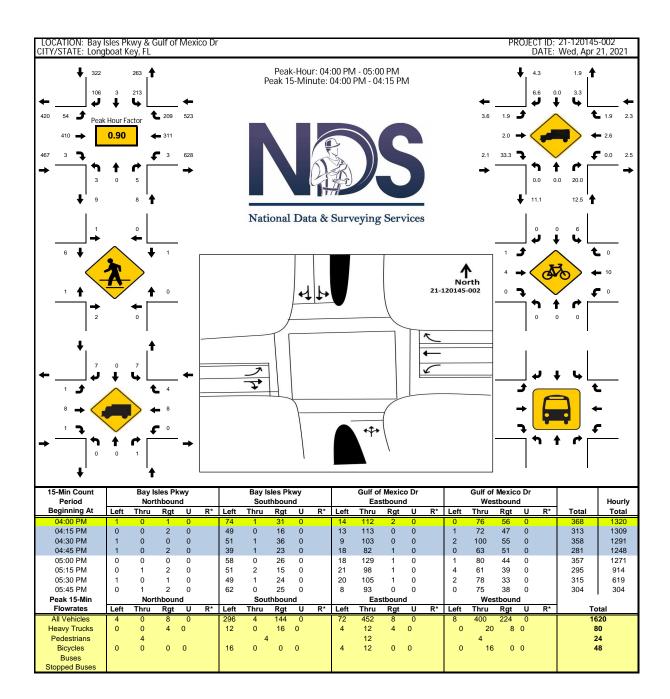


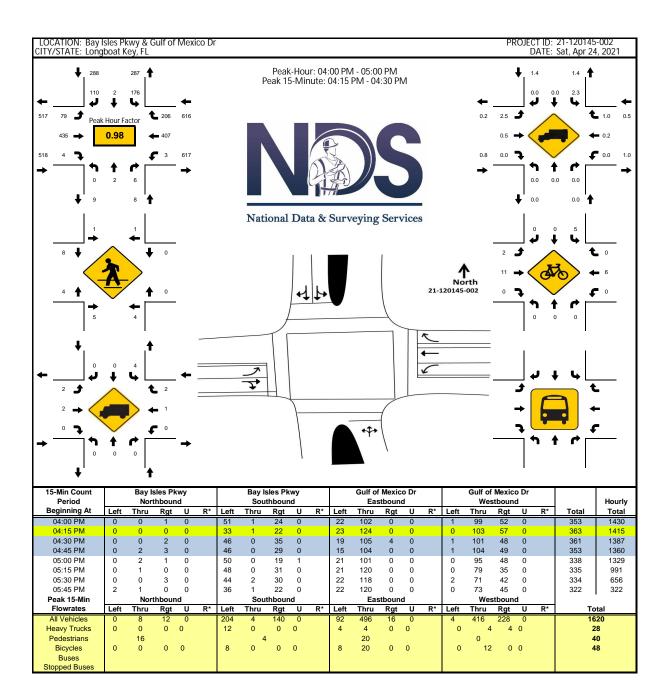
N/S Street: Bay Isles Pkwy Speed: N/A

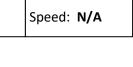
21-120145-002

E/W Street: Gulf of Mexico Dr











Site Code: **21-120145-003**

Date: **04/24/2021**

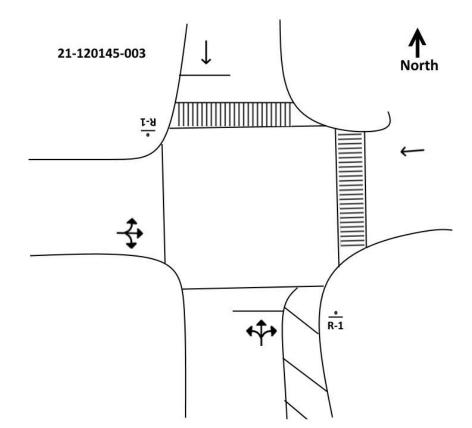
Weather: Sunny

City: Longboat Key

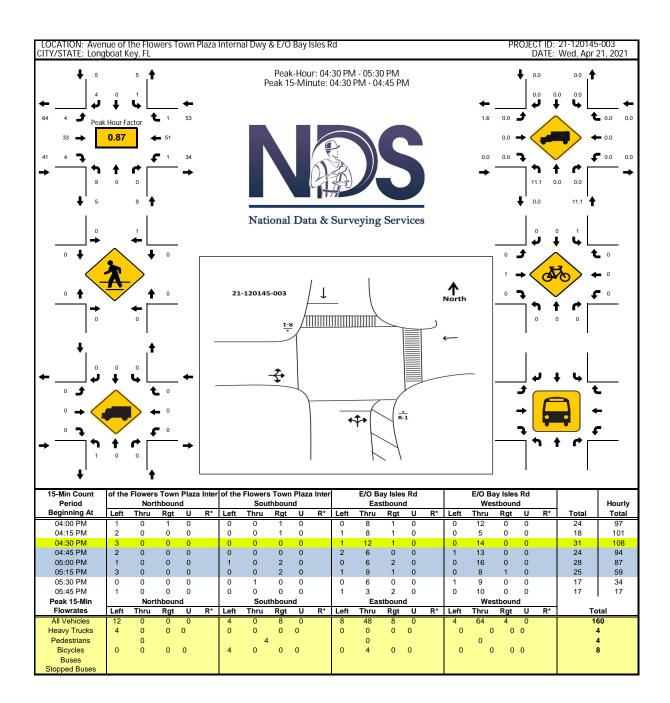
County: Sarasota

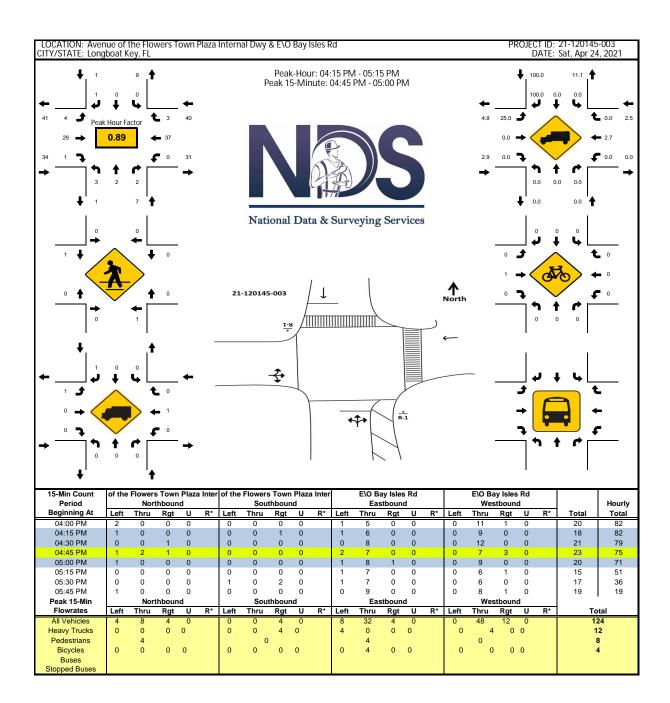
Count Times: **16:00 - 18:00**

Control: 2-Way Stop(NB/SB)



N/S Street: Avenue of the Flowers Town Plaza Internal Dwy







Speed: N/A



National Data & Surveying Services

Site Code: **21-120145-004**

Date: **04/24/2021**

Weather: Sunny

City: Longboat Key

County: Sarasota

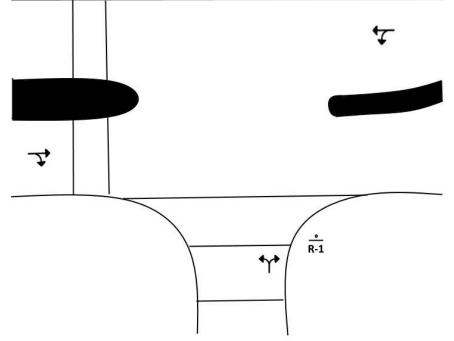
Count Times: **16:00 - 18:00**

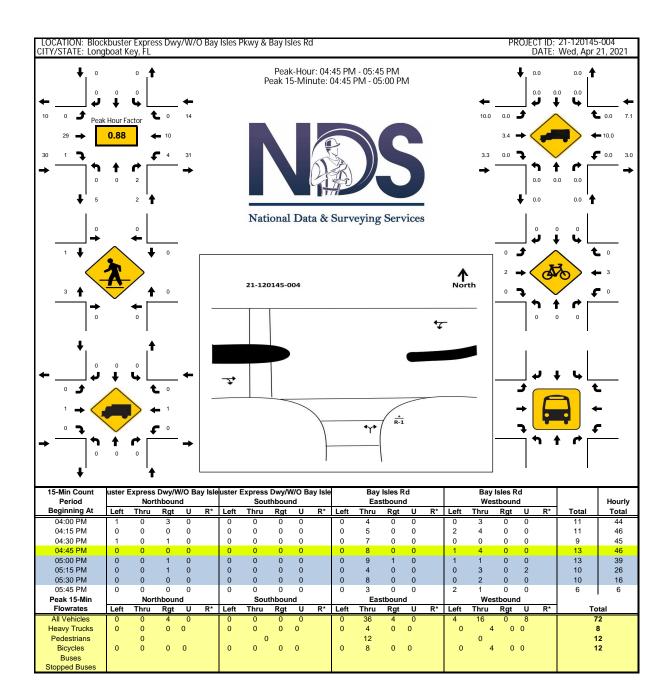
Control: 1-Way Stop(NB)

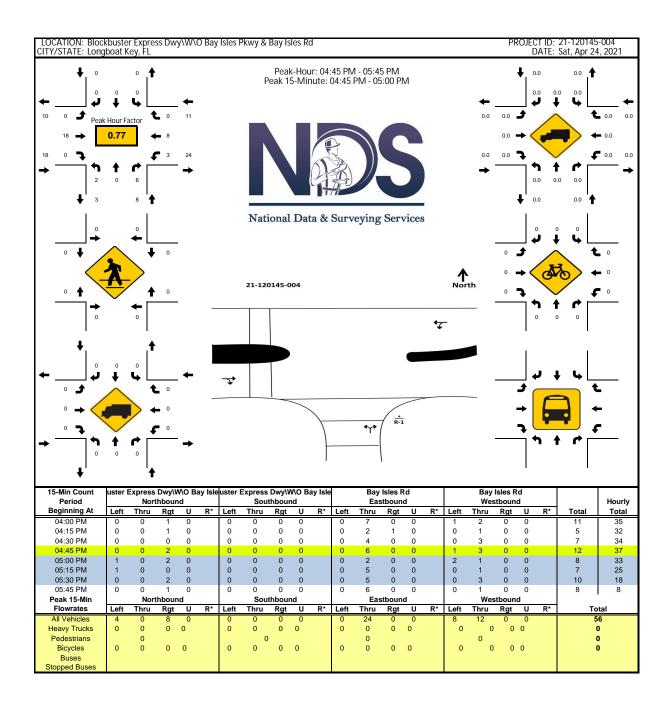


N/S Street: Blockbuster Express Dwy/W/O Bay Isles Pkwy











Site Code: **21-120145-005**

Date: **04/24/2021**

Weather: Sunny

City: Longboat Key

County: Sarasota

Count Times: **16:00 - 18:00**

Control: 1-Way Stop(EB)

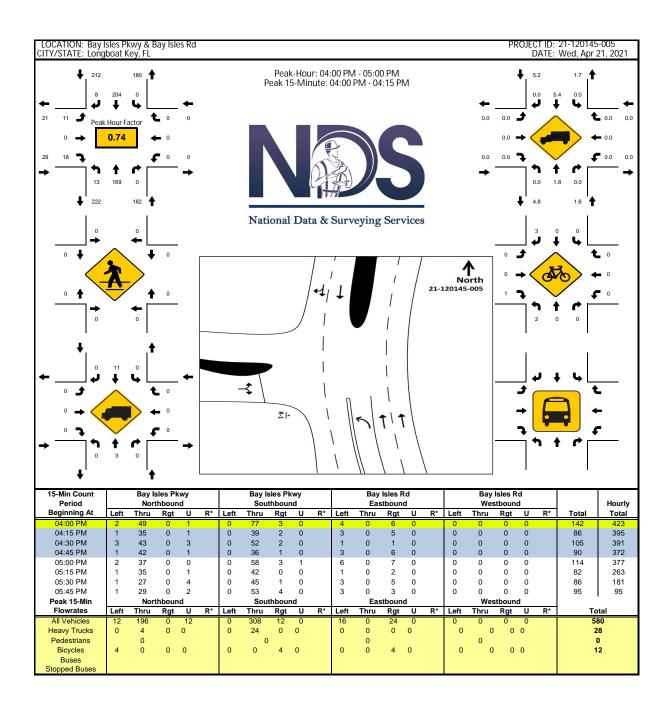


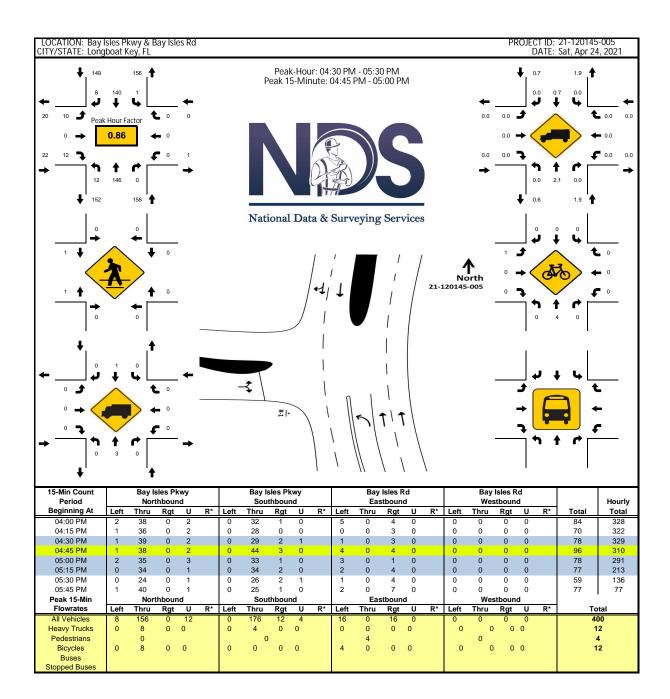
N/S Street: Bay Isles Pkwy Speed: N/A

21-120145-005

E/W Street: Bay Isles Rd

Speed: N/A







Appendix C: FDOT Peak Season Factor 2020 PEAK SEASON FACTOR CATEGORY REPORT - REPORT TYPE: ALL CATEGORY: 1702 SR 776 & BEACHES

CATEGO	RY: 1702 SR 776 & BEACHES		MOGE. 0.01
WEEK	DATES	SF	MOCF: 0.91 PSCF
* 1 * 2 * 3 * 4 * 5 * 7 * 8 * 10 * 11 * 12 * 13 14 15 16 17	01/01/2020 - 01/04/2020 01/05/2020 - 01/11/2020 01/12/2020 - 01/18/2020 01/19/2020 - 01/25/2020 01/26/2020 - 02/01/2020 02/02/2020 - 02/08/2020 02/09/2020 - 02/15/2020 02/16/2020 - 02/22/2020 02/23/2020 - 02/29/2020 03/01/2020 - 03/07/2020 03/08/2020 - 03/14/2020 03/15/2020 - 03/21/2020 03/22/2020 - 03/28/2020 03/29/2020 - 04/04/2020 04/05/2020 - 04/11/2020 04/19/2020 - 04/25/2020	1.01 0.95 0.89 0.87 0.85 0.83 0.81 0.84 0.87 0.90 0.93 0.97 1.10 1.23 1.37 1.50 1.38	1.11 1.04 0.98 0.96 0.93 0.91 0.89 0.92 0.96 0.99 1.02 1.07 1.21 1.35 1.51 1.65 1.52
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	04/26/2020 - 05/02/2020 05/03/2020 - 05/09/2020 05/10/2020 - 05/16/2020 05/17/2020 - 05/23/2020 05/24/2020 - 05/30/2020 05/31/2020 - 06/06/2020 06/07/2020 - 06/13/2020 06/14/2020 - 06/20/2020 06/21/2020 - 06/27/2020 06/21/2020 - 07/04/2020 07/05/2020 - 07/11/2020 07/12/2020 - 07/18/2020 07/19/2020 - 07/18/2020 07/19/2020 - 07/25/2020 07/26/2020 - 08/01/2020 08/02/2020 - 08/01/2020 08/02/2020 - 08/01/2020 08/02/2020 - 08/15/2020 08/16/2020 - 08/22/2020 08/30/2020 - 08/22/2020 08/30/2020 - 09/05/2020 09/06/2020 - 09/12/2020 09/13/2020 - 09/12/2020 09/20/2020 - 09/26/2020 09/20/2020 - 10/03/2020 10/04/2020 - 10/10/2020 10/11/2020 - 10/17/2020 10/11/2020 - 10/17/2020 10/11/2020 - 10/17/2020	1.33 1.27 1.15 1.04 1.02 1.01 1.00 0.98 0.97 0.98 0.99 1.00 1.01 1.02 1.03 1.04 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.06 1.01 1.00 1.01 1.00	1.40 1.26 1.14 1.12 1.11 1.10 1.08 1.07 1.08 1.09 1.10 1.11 1.12 1.13 1.14 1.15 1.15 1.15 1.15 1.15 1.16 1.14 1.13 1.11 1.10 1.10 1.10 1.10 1.10 1.10
51 52 53	12/13/2020 - 12/12/2020 12/13/2020 - 12/19/2020 12/20/2020 - 12/26/2020 12/27/2020 - 12/31/2020	1.01 0.95 0.89	1.11 1.04 0.98

^{*} PEAK SEASON



Appendix D:
Signal Timing Information

FDOT - DISTRICT 1

Signal Timing Report

(For isolated traffic signal)

Drawn By:	RC
Date:	11/2015
Checked By:	EME
Date:	11/2015

Approved By:

Rovindra Churaman, P.E. # 73829

Date: 11.10.2015

Revisions	Location Details							
04/2015: Updated the controller timing parameters to June 2014 Guidelines. Added detection delay for minor street right turn	Section: 17030	Mile Post: 6.924						
movements.	Major Street: SR 789	Orientation: N-S						
	Minor Street: Bay Isle Pkwy	Orientation: <i>E-W</i>						
	Sig ID: 927							
	Table							

Disclaimer Statement

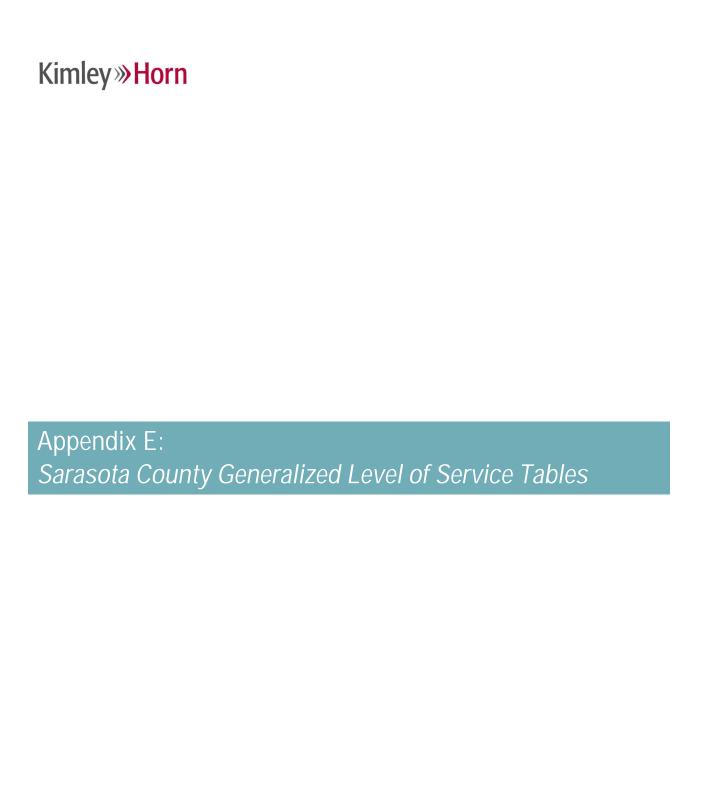
The revisions noted above are the only timing parameters being approved. The remaining timing data was previously approved as part of previous revisions or as part of previous retiming efforts.

				Controlle	r Timings				
Movement # (Controller Phase Ø)	1	2	3	4	5	6	7	8	Notes
Direction		SB		WB	SBL	NB		EB	
Turn Type					Prot/Perm				
Min Green		10	190 100 10000 4000	7	5	10		7	
Ext		5.0		3.0	3.0	5.0		3.0	
Yellow		4.9	1932 43	3.7	4.9	4.9		3.7	10.0
All Red		2.0		2.5	2.0	2.0		2.5	
Max I		45		20	10	45		20	
Max II			10, 2				W. V. 2010		
Max Limit		50				50			
Adjust By		5				5			8/1/92 1188W 31
Walk		7		7		7		7	
Flashing Don't Walk		22		18		26		18	
Detector Memory			232						
Det. Cross Switch.					YES				
Dual Entry		ON		ON		ON		ON	
Recall		MIN				MIN			

		SOP	11
Ring - 1	V	2	4
Ring - 2	5	6	8

Notes:

- 1) Program phase restrictions to omit Phase 5 when Phase 6 is green, in addition to detector cross switching
- 2) Program 8 sec detection delay for minor side street right turns movements



SARASOTA COUNTY 2019 GENERALIZED LEVEL OF SERVICE ANALYSIS

	Road Segments				Segment Attributes						Existing Traffic Conditions					Minimum	
							Analysis			Traffic Counts Adjusted					Ad	Adopted	
				Juris-	# of	Segm	Sgmnt	Post	Ref			Volume	to 2019			Sta	ndards
ID#	Roadway Name	1	Limits	diction	Lanes	Length	Length	Spd	No.	Source	Date	AADT	AADT	DHV	LOS	LOS	Srv Vol
100	Fruitville (SR 780)	Shade	Tuttle	FDOT/Sar	6	0.50	0.50	40	3	FDOT	Jan-19	45,500	45,500	4,095	C	D	5,390
101	Fruitville (SR 780)	Tuttle	Lockwood Ridge	FDOT/Sar	6	0.50	0.50	45	3	FDOT	Jan-19	46,000	46,000	4,140	C	D	5,390
102	Fruitville (SR 780)	Lockwood Ridge	Beneva	FDOT/Sar	6	0.50	0.50	45	3	FDOT	Jan-19	55,000	55,000	4,620	C	D	5,390
103	Fruitville (SR 780)	Beneva	McIntosh	FDOT/Sar	6	1.00	1.00	45	3	FDOT	Jan-19	55,000	55,000	4,620	C	D	5,390
104	Fruitville (SR 780)	McIntosh	Honore	FDOT	6	1.00	1.00	45	66	FDOT	Jan-19	55,000	55,000	4,620	C	D	5,660
105	Fruitville (SR 780)	Honore	Paramount Dr	FDOT	6	0.40	0.40	45	66	FDOT	Jan-19	53,000	53,000	4,452	C	D	5,660
105.5	Fruitville (SR 780)	Paramount Dr	Cattlemen	FDOT	6	0.30	0.30	45	66	FDOT	Jan-19	53,000	53,000	4,452	C	D	5,660
106	Fruitville (SR 780)	Cattlemen	I-75	FDOT	6	0.35	0.35	45	66	FDOT	Jan-19	53,000	53,000	4,452	C	D	5,660
107	Fruitville	I-75	Lakewood Ranch Blvd	County	4	0.59	0.59	45	44	SC	Feb-19	35,588	35,588	3,238	C	D	3,401
107	Fruitville	Lakewood Ranch Blvd	East Road	County	4	0.62	0.62	45	23	SC	Feb-19	32,482	32,482	3,118	D	C	3,078
107.3	Fruitville	East Road	Tatum	County	4	0.64	0.64	45	23	SC	Feb-19	26,997	26,997	2,646	C	C	3,078
107.5	Fruitville	Tatum	Sarasota Center Blvd	County	4	0.61	0.61	45	44	SC	Mar-19	25,138	25,138	2,464	C	C	3,249
107.6	Fruitville	Sarasota Center Blvd	Lorraine Rd	County	2	1.40	8.50	55	30	SC	Mar-19	16,745	16,745	1,741	F	С	1,057
107.7	Fruitville	Lorraine Rd	Verna Road	County	2	7.10	8.50	55	30	SC	Mar-19	6,256	6,256	682	C	С	1,057
108	Gantt Road	Proctor	Ashton	County	2	0.50	0.50	35	151	SC	Apr-19	11,079	11,079	1,208	F	D	998
108.5	Gantt Road	Ashton	Clark	County	2	0.50	0.50	35	122	SC	Apr-19	11,883	11,883	1,295	F	D	1,197
112	Gulf Gate Drive	U.S. 41	Gateway Ave	County	4	0.29	0.29	30	152	SC	Sep-19	9,106	9,106	993	D	D	2,044
113	Gulf Gate Drive	Gateway	Markridge	County	2	0.58	0.58	25	126	SC	Sep-19	6,905	6,905	753	D	D	1,264
113	Gulf Gate Drive	Markridge	Bispham	County	2	0.17	0.17	25	126	SC	Sep-19	6,905	6,905	753	D	D	1,264
114	Gulf Gate Drive	Bispham	Curtiss	County	2	0.44	0.44	25	126	SC	Sep-19	6,999	6,999	763	D	D	1,264
114	Gulf Gate Drive	Curtiss	Beneva	County	2	0.11	0.11	25	126	SC	Sep-19	6,999	6,999	763	D	D	1,264
	Gulf Mexico Dr.(SR 789)	Co Line	New Pass Bridge	FDOT/LBK		5.35	5.35	35	102	FDOT	Jan-18	21,000	22,149	2,281	D	D	2,920
116	Harbor Drive	Venice Ave	Beach Rd	Co./Ven	2	1.40	1.40	30	126	SC	Oct-19	3,846	3,846	427	С	D	1,264
117	Harbor Drive	Beach Rd	South of Beach Rd	Co./Ven	2	1.70	1.70	30	130	SC	Oct-19	4,689	4,689	516	D	D	931
1046	Hatchet Creek Boulevard	Pinebrook Rd	Jacaranda Blvd	Co./Ven	2	1.76	1.48	25	143	SC	Oct-19	3,620	3,620	402	С	D	1,264
118	Higel Avenue (SR 758)	Siesta	Midnight Pass Rd	FDOT	2	0.85	1.85	40	9	FDOT	Jan-19	15,500	15,500	1,612	F	D	1,280
	Higel Ave/Treasure Boat	Midnight Pass Rd	Ocean	County	2	0.12	0.62	35	130	SC	Sep-19	1,051	1,051	117	С	D	931
119.5	Honore Avenue	University	Desoto	County	2	0.50	0.50	40	47	SC	Feb-19	22,581	22,581	2,326	F	D	1,600
	Honore Avenue	Desoto	Longmeadow	County	2	0.54	0.50	40	47	SC	Feb-19	19,373	19,373	1,995	F	D	1,600
119.7	Honore Avenue	Longmeadow	Taywood	County	2	1.20	1.20	30	143	SC	Feb-19	14,597	14,597	1,518	F	D	1,264
120	Honore Avenue	Taywood	17th	County	2	0.60	0.60	30	143	SC	Feb-19	16,030	16,030	1,667	F	D	1,264
	Honore Avenue	17th	Richardson	County	2	0.55	0.55	35	143	SC	Feb-19	22,227	22,227	2,289	F	D	1,264
121.5	Honore Avenue	Richardson	Fruitville	County	2	0.45	0.45	35	143	SC	Feb-19	18,818	18,818	1,938	F	D	1,264
122	Honore Avenue	Fruitville	Antoinette	County	2	0.29	0.29	35	147	SC	Mar-19	16,656	16,656	1,732	F	D	1,330
122	Honore Avenue	Antoinette	Sawgrass	County	2	0.09	0.48	35	147	SC	Mar-19	16,656	16,656	1,732	F	D	1,330
122	Honore Avenue	Sawgrass	Palmer	County	2	0.39	0.48	35	126	SC	Mar-19	16,656	16,656	1,732	F	D	1,264
122.6	Honore Avenue	Palmer	Bahia Vista	County	2	0.34	0.34	35	147	SC	Mar-19	14,682	14,682	1,527	F	D	1,330
	Honore Avenue	Bahia Vista	Colonial Oaks	County	2	0.80	0.80	30	147	SC	Mar-19	11,731	11,731	1,279	D	D	1,330
	Honore Avenue	Colonia Oaks	Webber	County	2	0.25	0.25	30	126	SC	Mar-19	11,689	11,689	1,274	E	D	1,264
	Honore Avenue	Webber	Brookmeade	County	2	0.28	0.28	30	126	SC	Mar-19	10,831	10,831	1,181	D	D	1,264
	Honore Avenue	Brookmeade	Bee Ridge	County	2	0.37	0.37	30	147	SC	Mar-19	10,831	10,831	1,181	D	D	1,330
	Honore Avenue	Bee Ridge	Wilkinson	County	2	0.50	0.50	45	26	SC	Jun-19	11,889	11,889	1,296	C	D	1,520
-	Honore Avenue	Wilkinson	Proctor	County	2	0.50	0.50	40	26	SC	Jun-19	9,487	9,487	1,034	C	D	1,520
	Honore Avenue	Proctor	Ashton	County	2	0.50	0.50	30	122	SC	Jun-19	8,390	8,390	914	D	D	1,197
	Honore Avenue	Ashton	Clark	County	2	0.50	0.50	30	143	SC	Jun-19	8,422	8,422	918	D	D	1,264
-	Honore Avenue	Clark	Northridge	County	4	0.25	1.55	45	44	SC	Jun-19	19,167	19,167	1,974	C	D	3,401
	Honore Avenue	Northridge	Palmer Ranch Pkwy	County	4	1.30	1.55	45	44	SC	Jun-19	18,158	18,158	1,870	C	D	3,401
	Honore Avenue	Palmer Ranch Pkwy	Central Sarasota Pkwv	County	4	1.79	1.79	45	44	SC	Jun-19	9,832	9,832	1,072	C	D	3,401



Appendix F:
Synchro Output

laters satis						
Intersection	0.0					
Int Delay, s/veh	0.9					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	W		ሻ	^	ħβ	
Traffic Vol, veh/h	17	27	11	257	310	12
Future Vol, veh/h	17	27	11	257	310	12
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	130	-	-	-
Veh in Median Storage		_	-	0	0	_
Grade, %	0	_	_	0	0	_
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	5	2
Mvmt Flow	18	29	12	279	337	13
IVIVIIIL I IUVV	10	Z 7	12	217	331	13
Major/Minor N	/linor2	١	/lajor1	١	/lajor2	
Conflicting Flow All	508	175	350	0	-	0
Stage 1	344	-	-	-	-	-
Stage 2	164	-	-	-	-	-
Critical Hdwy	6.84	6.94	4.14	-	-	-
Critical Hdwy Stg 1	5.84	-	_	_	_	_
Critical Hdwy Stg 2	5.84	-	-	_	-	-
Follow-up Hdwy	3.52	3.32	2.22	_	_	_
Pot Cap-1 Maneuver	494	838	1206	_	_	
Stage 1	689	-	1200	<u>-</u>	_	_
Stage 2	848	_		_	_	_
Platoon blocked, %	040	-		-	-	_
	400	020	1204	-	-	-
Mov Cap-1 Maneuver	489	838	1206	-	-	-
Mov Cap-2 Maneuver	489	-	-	-	-	-
Stage 1	682	-	-	-	-	-
Stage 2	848	-	-	-	-	-
Approach	EB		NB		SB	
HCM Control Delay, s			0.3		0	
HCM LOS	В		0.0		U	
TIOWI LOO	U					
Minor Lane/Major Mvm	t	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)		1206	-	657	-	-
HCM Lane V/C Ratio		0.01	-	0.073	-	-
HCM Control Delay (s)		8	_	10.9	-	-
HCM Lane LOS		A	_	В	-	-
HCM 95th %tile Q(veh)		0	-	0.2	-	-
1.5W 75W 75W 75W C (VCH)		U		0.2		

Weekday Existing PM.syn
Kimley-Horn
HCM 6th TWSC
07/02/2021

Intersection							
Int Delay, s/veh	0.7						
	EDT	EDD	WDI	WDT		NDI	NDD
	EBT	EBR	WBL	WBT		NBL	NBR
Lane Configurations	}			4		M	- 1
Traffic Vol, veh/h	44	2	3	15		0	3
Future Vol, veh/h	44	2	3	15		0	3
Conflicting Peds, #/hr	0	0	0	0		0	0
	Free	Free	Free	Free		Stop	Stop
RT Channelized	-	None	-	None		-	None
Storage Length	-	-	-	-		0	-
Veh in Median Storage,	# 0	-	-	0		0	-
Grade, %	0	-	-	0		0	-
Peak Hour Factor	92	92	92	92		92	92
Heavy Vehicles, %	2	2	2	2		2	2
Mvmt Flow	48	2	3	16		0	3
N A ' /N A'							
	ajor1		Major2		M	linor1	
Conflicting Flow All	0	0	50	0		71	49
Stage 1	-	-	-	-		49	-
Stage 2	-	-	-	-		22	-
Critical Hdwy	-	-	4.12	-		6.42	6.22
Critical Hdwy Stg 1	-	-	-	-		5.42	-
Critical Hdwy Stg 2	-	-	-	-		5.42	-
Follow-up Hdwy	-	-	2.218	-		3.518	3.318
Pot Cap-1 Maneuver	-	-		-		933	1020
Stage 1	-	-	_	-		973	-
Stage 2	-	-	-	-		1001	-
Platoon blocked, %	_	_		_		7001	
Mov Cap-1 Maneuver	_	_	1557	-		931	1020
Mov Cap-1 Maneuver	_	-	1337	-		931	1020
Stage 1		-	-	-		973	
	-	-	-				-
Stage 2	-	-	-	-		999	-
Approach	EB		WB			NB	
HCM Control Delay, s	0		1.2			8.5	
HCM LOS	- 0		1.2			Α	
TIOWI LOG							
Minor Lane/Major Mvmt	<u> </u>	VBLn1	EBT	EBR	WBL	WBT	
Capacity (veh/h)		1020	-	-	1557	-	
HCM Lane V/C Ratio		0.003	_		0.002	-	
HCM Control Delay (s)		8.5	-	-	7.3	0	
HCM Lane LOS		A		-	A	A	
HCM 95th %tile Q(veh)		0	_	_	0	-	
1101VI 73(11 70(116 Q(VCII)		U	-		U		

Weekday Existing PM.syn
Kimley-Horn
HCM 6th TWSC
07/02/2021

	۶	→	•	•	←	•	4	†	<i>></i>	>	ļ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	ĵ»		ħ	†	7		4			€1 }	
Traffic Volume (veh/h)	82	623	5	5	473	318	5	0	8	324	5	161
Future Volume (veh/h)	82	623	5	5	473	318	5	0	8	324	5	161
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1856	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	89	677	5	5	514	294	5	0	5	352	5	123
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	3	2	2	2	2	2	2	2
Cap, veh/h	306	1003	7	310	719	614	208	24	157	473	15	364
Arrive On Green	0.06	0.54	0.54	0.39	0.39	0.39	0.26	0.00	0.26	0.26	0.26	0.26
Sat Flow, veh/h	1781	1854	14	759	1856	1585	510	91	601	1431	57	1394
Grp Volume(v), veh/h	89	0	682	5	514	294	10	0	0	352	0	128
Grp Sat Flow(s), veh/h/ln	1781	0	1868	759	1856	1585	1202	0	0	1431	0	1451
Q Serve(g_s), s	2.0	0.0	19.0	0.3	16.9	10.1	0.0	0.0	0.0	12.2	0.0	5.2
Cycle Q Clear(g_c), s	2.0	0.0	19.0	8.3	16.9	10.1	5.2	0.0	0.0	17.4	0.0	5.2
Prop In Lane	1.00	0.0	0.01	1.00	10.7	1.00	0.50	0.0	0.50	1.00	0.0	0.96
Lane Grp Cap(c), veh/h	306	0	1011	310	719	614	388	0	0.50	473	0	378
V/C Ratio(X)	0.29	0.00	0.67	0.02	0.71	0.48	0.03	0.00	0.00	0.74	0.00	0.34
Avail Cap(c_a), veh/h	450	0.00	1166	502	1189	1015	412	0.00	0.00	473	0.00	378
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	13.4	0.0	12.0	19.0	18.7	16.6	19.9	0.0	0.0	26.0	0.0	21.6
Incr Delay (d2), s/veh	0.5	0.0	2.0	0.0	2.8	1.2	0.0	0.0	0.0	6.3	0.0	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	0.0	6.6	0.0	6.7	3.3	0.0	0.0	0.0	6.4	0.0	1.7
Unsig. Movement Delay, s/ve		0.0	0.0	0.1	0.7	3.3	0.1	0.0	0.0	0.4	0.0	1.7
LnGrp Delay(d),s/veh	13.9	0.0	14.0	19.0	21.5	17.8	19.9	0.0	0.0	32.3	0.0	22.1
LnGrp LOS	13.9 B	Α	14.0 B	19.0 B	21.5 C	17.0 B	19.9 B	Α	Α	32.3 C	0.0 A	22.1 C
	В		ь	ь		В	ь		A			
Approach Vol, veh/h		771			813			10			480	
Approach LOS		14.0			20.2			19.9			29.6	
Approach LOS		В			С			В			С	
Timer - Assigned Phs		2		4	5	6		8				
Phs Duration (G+Y+Rc), s		45.9		26.2	11.1	34.9		26.2				
Change Period (Y+Rc), s		6.9		7.4	6.9	* 6.9		* 7.4				
Max Green Setting (Gmax), s		45.0		18.8	10.0	* 46		* 20				
Max Q Clear Time (q_c+l1), s		21.0		19.4	4.0	18.9		7.2				
Green Ext Time (p_c), s		8.6		0.0	0.1	9.0		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			20.1									
HCM 6th LOS			20.1 C									
Notes												

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Intersection						
Int Delay, s/veh	2.7					
		EDT	WDT	WDD	CDI	CDD
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↑	ĵ»	0.0	¥	0.1
Traffic Vol, veh/h	73	689	616	20	50	96
Future Vol, veh/h	73	689	616	20	50	96
Conflicting Peds, #/hr	_ 0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	180	-	-	-	0	-
Veh in Median Storage	e,# -	0	0	-	1	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	4	2	3	2
Mvmt Flow	79	749	670	22	54	104
N.A. ' /N.A.'					AL C	
	Major1		/lajor2		Minor2	
Conflicting Flow All	692	0	-	0	1588	681
Stage 1	-	-	-	-	681	-
Stage 2	-	-	-	-	907	-
Critical Hdwy	4.12	-	-	-	6.43	6.22
Critical Hdwy Stg 1	-	-	-	-	5.43	-
Critical Hdwy Stg 2	-	-	-	-	5.43	-
Follow-up Hdwy	2.218	-	-	-		3.318
Pot Cap-1 Maneuver	903	-	-	-	118	450
Stage 1	-	-	-	-	501	-
Stage 2	_	_	_	-	392	_
Platoon blocked, %		_	_	_	072	
Mov Cap-1 Maneuver	903	-	_	-	108	450
Mov Cap-1 Maneuver	903	-		-	242	430
			-			
Stage 1	-	-	-	-	457	-
Stage 2	-	-	-	-	392	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.9		0		23.7	
HCM LOS					C	
				14/5-	14/55	0DL 1
Minor Lane/Major Mvn	nt	EBL	EBT	WBT	WBR :	
Capacity (veh/h)		903	-	-	-	348
HCM Lane V/C Ratio		880.0	-	-	-	0.456
HCM Control Delay (s))	9.4	-	-	-	23.7
HCM Lane LOS		Α	-	-	-	С
HCM 95th %tile Q(veh	1)	0.3	-	-	-	2.3
	•					

Intersection												
Int Delay, s/veh	1.6											
init belay, siven												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	6	50	6	2	78	2	14	0	0	2	0	6
Future Vol, veh/h	6	50	6	2	78	2	14	0	0	2	0	6
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage	e,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	11	2	2	2	2	2
Mvmt Flow	7	54	7	2	85	2	15	0	0	2	0	7
Major/Minor	Major1		ı	Major2		ı	Minor1			Minor2		
Conflicting Flow All	101ajui 1 87	0	0	<u>61</u>	0	0	166	163	58	162	165	86
Stage 1	8/	-	U	01	-	0	72	72	58	90	90	80
Stage 1 Stage 2	-	-	-	-	-	-	94	91	-	72	75	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.21	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	4.12	-	-	4.12	-	-	6.21	5.52	0.22	6.12	5.52	0.22
Critical Hdwy Stg 2	-	-	-	-	-	-	6.21	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.599	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1509	-	-	1542	-	-	779	729	1008	803	728	973
Stage 1	1309	-	-	1342	-	-	916	835	1008	917	820	9/3
Stage 1	-	-	-	-	-	-	891	820	-	917	833	-
Platoon blocked, %	-	-	-	-	-	-	071	020	-	730	033	-
Mov Cap-1 Maneuver	1509	-	-	1542		-	770	725	1008	799	724	973
Mov Cap-1 Maneuver	1307			1342	-	-	770	725	1000	799	724	913
Stage 1	-	-	-	-	-	-	911	831	-	912	819	-
Stage 2	<u>-</u>			-	-		884	819	-	933	829	-
Staye 2	<u>-</u>	_	_	-	_	-	004	017	<u>-</u>	733	029	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.7			0.2			9.8			8.9		
HCM LOS							Α			Α		
Minor Lane/Major Mvn	nt N	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR:	SBI n1			
Capacity (veh/h)	1	770	1509	LUI		1542	**D1	-	923			
HCM Lane V/C Ratio			0.004	-		0.001	-		0.009			
HCM Control Delay (s)	9.8	7.4	0	_	7.3	0		8.9			
HCM Lane LOS)	9.8 A		A	-	7.3 A	A		8.9 A			
HCM 95th %tile Q(veh	1)	0.1	A 0	- A	-	0	- A	-	0			
HOW FOUT MINE Q(VEI	1)	0.1	U		-	U			U			

Intersection						
Int Delay, s/veh	2.2					
		ED.5	ND	NET	ODT	000
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥			^	Φ₽	
Traffic Vol, veh/h	18	82	65	264	318	13
Future Vol, veh/h	18	82	65	264	318	13
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	130	-	-	-
Veh in Median Storage		-	-	0	0	-
Grade, %	0	_	_	0	0	
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	5	2
Mvmt Flow	20	89	71	287	346	14
IVIVIIIL FIUW	20	87	71	201	340	14
Major/Minor N	/linor2	N	/lajor1	N	/lajor2	
Conflicting Flow All	639	180	360	0	_	0
Stage 1	353	-	-	-	_	-
Stage 2	286	-	_	_	_	_
	6.84	6.94	4.14			-
Critical Hdwy			4.14	-	-	
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	2.22	-	-	-
Pot Cap-1 Maneuver	408	832	1195	-	-	-
Stage 1	682	-	-	-	-	-
Stage 2	737	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	384	832	1195	-	-	-
Mov Cap-2 Maneuver	384	-	_	-	-	-
Stage 1	642	_	_	_	_	_
Stage 2	737	_	_	_	_	_
Jiayt 2	131	-	-	-	-	-
Approach	EB		NB		SB	
HCM Control Delay, s	11.2		1.6		0	
HCM LOS	В					
, ====						
Minor Lane/Major Mvm	t	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)		1195	-	688	-	-
HCM Lane V/C Ratio		0.059	-	0.158	-	-
HCM Control Delay (s)		8.2	_	11.2	_	-
HCM Lane LOS		A	_	В	_	_
HCM 95th %tile Q(veh)		0.2	_	0.6		_
HOW FOUT FOUTE CE(VEIT)		0.2	_	0.0		

Intersection							
Int Delay, s/veh	5.4						
		ED.	14/51	MOT		NIC	NIDD
	EBT	EBR	WBL	WBT		<u>NBL</u>	NBR
Lane Configurations	₽			-4		M	
Traffic Vol, veh/h	45	12	58	15		13	58
Future Vol, veh/h	45	12	58	15		13	58
Conflicting Peds, #/hr	0	0	0	0		0	0
	Free	Free	Free	Free	,	Stop	Stop
RT Channelized	-	None	-	None		-	None
Storage Length	-	-	-	-		0	-
Veh in Median Storage,	# 0	-	-	0		0	-
Grade, %	0	-	-	0		0	-
Peak Hour Factor	92	92	92	92		92	92
Heavy Vehicles, %	2	2	2	2		2	2
Mvmt Flow	49	13	63	16		14	63
		10	- 00				
	ajor1	<u> </u>	Major2		Mi	nor1	
Conflicting Flow All	0	0	62	0		198	56
Stage 1	-	-	-	-		56	-
Stage 2	-	-	-	-		142	-
Critical Hdwy	-	-	4.12	-		6.42	6.22
Critical Hdwy Stg 1	-	-	-	-		5.42	-
Critical Hdwy Stg 2	-	-	-	-		5.42	-
Follow-up Hdwy	-	-	2.218	-			3.318
Pot Cap-1 Maneuver	-	-		-		791	1011
Stage 1	_	_		_		967	-
Stage 2	_	_	_	_		885	-
Platoon blocked, %	-					000	
Mov Cap-1 Maneuver	-	_	1541	-		759	1011
			1341			759	
Mov Cap-2 Maneuver	-	-	-	-			-
Stage 1	-	-	-	-		967	-
Stage 2	-	-	-	-		849	-
Approach	EB		WB			NB	
HCM Control Delay, s	0		5.9			9.1	
HCM LOS	U		J.7			9. I	
I IOIVI LUJ						А	
Minor Lane/Major Mvmt		VBLn1	EBT	EBR	WBL V	NBT	
Capacity (veh/h)		953	-	-	1541	_	
HCM Lane V/C Ratio		0.081	_		0.041	_	
HCM Control Delay (s)		9.1	-	-	7.4	0	
HCM Lane LOS		A	_	_	A	A	
HCM 95th %tile Q(veh)		0.3	_	_	0.1	-	
HOW 75W 70WE Q(VEH)		0.5	-	_	0.1	-	

	۶	→	•	•	←	•	4	†	~	>	ļ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	Ť	ĵ»		ħ	†	7		4			€1 }	
Traffic Volume (veh/h)	95	645	5	5	488	369	5	0	8	368	5	183
Future Volume (veh/h)	95	645	5	5	488	369	5	0	8	368	5	183
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1856	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	103	701	5	5	530	349	5	0	5	400	5	147
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	3	2	2	2	2	2	2	2
Cap, veh/h	304	1024	7	305	741	633	189	23	139	448	12	357
Arrive On Green	0.06	0.55	0.55	0.40	0.40	0.40	0.25	0.00	0.25	0.25	0.25	0.25
Sat Flow, veh/h	1781	1855	13	742	1856	1585	456	91	547	1377	48	1402
Grp Volume(v), veh/h	103	0	706	5	530	349	10	0	0	400	0	152
Grp Sat Flow(s), veh/h/ln	1781	0	1868	742	1856	1585	1094	0	0	1377	0	1450
Q Serve(g_s), s	2.3	0.0	20.1	0.4	17.8	12.5	0.0	0.0	0.0	12.3	0.0	6.5
Cycle Q Clear(g_c), s	2.3	0.0	20.1	9.2	17.8	12.5	6.5	0.0	0.0	18.8	0.0	6.5
Prop In Lane	1.00	0.0	0.01	1.00	17.0	1.00	0.50	0.0	0.50	1.00	0.0	0.97
Lane Grp Cap(c), veh/h	304	0	1031	305	741	633	351	0	0.50	448	0	369
V/C Ratio(X)	0.34	0.00	0.68	0.02	0.72	0.55	0.03	0.00	0.00	0.89	0.00	0.41
Avail Cap(c_a), veh/h	439	0.00	1138	473	1160	991	374	0.00	0.00	448	0.00	369
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	13.5	0.00	11.9	19.3	18.7	17.1	20.8	0.00	0.00	28.9	0.00	22.9
Incr Delay (d2), s/veh	0.7	0.0	2.2	0.0	2.8	1.6	0.0	0.0	0.0	19.9	0.0	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.8	0.0	7.0	0.0	7.1	4.2	0.0	0.0	0.0	9.5	0.0	2.2
Unsig. Movement Delay, s/ve		0.0	7.0	0.1	7.1	4.2	0.1	0.0	0.0	9.0	0.0	۷.۷
LnGrp Delay(d),s/veh	14.2	0.0	14.1	19.3	21.4	18.7	20.8	0.0	0.0	48.7	0.0	23.7
	14.2 B	0.0 A	14.1 B	19.3 B	21.4 C	16.7 B	20.6 C		0.0 A	40.7 D	0.0 A	23.7 C
LnGrp LOS	D		D	D		D		A 10	A	U		
Approach Vol, veh/h		809			884			10			552	
Approach Delay, s/veh		14.1			20.3			20.8			41.8	
Approach LOS		В			С			С			D	
Timer - Assigned Phs		2		4	5	6		8				
Phs Duration (G+Y+Rc), s		47.7		26.2	11.3	36.4		26.2				
Change Period (Y+Rc), s		6.9		7.4	6.9	* 6.9		* 7.4				
Max Green Setting (Gmax), s		45.0		18.8	10.0	* 46		* 20				
Max Q Clear Time (g_c+l1), s	;	22.1		20.8	4.3	19.8		8.5				
Green Ext Time (p_c), s		8.8		0.0	0.1	9.7		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			23.4									
HCM 6th LOS			С									
Notes												

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Intersection						
Int Delay, s/veh	3.4					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	ች	•	₽		W	
Traffic Vol, veh/h	85	718	650	24	57	109
Future Vol, veh/h	85	718	650	24	57	109
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	180	-	-	-	0	-
Veh in Median Storage	e,# -	0	0	-	1	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	4	2	3	2
Mvmt Flow	92	780	707	26	62	118
N A - ! /N A!	N / - !1		4-!0		A! O	
	Major1		/lajor2		Minor2	
Conflicting Flow All	733	0	-	0	1684	720
Stage 1	-	-	-	-	720	-
Stage 2	-	-	-	-	964	-
Critical Hdwy	4.12	-	-	-	6.43	6.22
Critical Hdwy Stg 1	-	-	-	-	5.43	-
Critical Hdwy Stg 2	-	-	-	-	5.43	-
Follow-up Hdwy	2.218	-	-	-	3.527	3.318
Pot Cap-1 Maneuver	872	-	-	-	103	428
Stage 1	-	-	-	-	480	-
Stage 2	-	-	-	-	369	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	872	-	-	_	92	428
Mov Cap-2 Maneuver	-	-	-	-	223	-
Stage 1	-	_	-	_	429	_
Stage 2	_	_	_	_	369	_
Olugo Z					507	
Approach	EB		WB		SB	
HCM Control Delay, s	1		0		29.1	
HCM LOS					D	
Minor Lane/Major Mvn	nt	EBL	EBT	WBT	WBR :	SRI n1
	ιι		LDI	VVDI		
Capacity (veh/h)		872	-	-	-	325
HCM Cantrol Dates (0.106	-	-		0.555
HCM Control Delay (s		9.6	-	-	-	29.1
HCM Lane LOS	,	A	-	-	-	D
HCM 95th %tile Q(veh	1)	0.4	-	-	-	3.2

Int Delay, s/veh 1.9
Movement EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL SBT SBR
Cane Configurations
Traffic Vol, veh/h 10 51 6 2 80 2 14 0 0 2 0 10 Future Vol, veh/h 10 51 6 2 80 2 14 0 0 2 0 10 Conflicting Peds, #/hr 0<
Future Vol, veh/h 10 51 6 2 80 2 14 0 0 2 0 10 Conflicting Peds, #/hr 0
Conflicting Peds, #/hr 0
Sign Control Free Free Free Free Free Free Free Free Stop Stop
RT Channelized - None - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - -
Storage Length - 0 - - 0
Veh in Median Storage, # - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 -<
Grade, % - 0 - - 0 0 - 92
Peak Hour Factor 92
Heavy Vehicles, % 2 2 2 2 2 2 11 2
Mvmt Flow 11 55 7 2 87 2 15 0 0 2 0 11 Major/Minor Major1 Major2 Minor1 Minor2
Major/Minor Major1 Major2 Minor1 Minor2
Stage 1 81 81 - 92 92 -
Stage 2 98 93 - 81 84 -
Critical Hdwy 4.12 4.12 7.21 6.52 6.22 7.12 6.52 6.22
Critical Hdwy Stg 1 6.21 5.52 - 6.12 5.52 -
Critical Hdwy Stg 2 6.21 5.52 - 6.12 5.52 -
Follow-up Hdwy 2.218 2.218 3.599 4.018 3.318 3.518 4.018 3.318
Pot Cap-1 Maneuver 1506 1541 763 719 1007 790 717 970
Stage 1 906 828 - 915 819 -
Stage 2 887 818 - 927 825 -
Platoon blocked, %
Mov Cap-1 Maneuver 1506 1541 749 713 1007 784 711 970
Mov Cap-2 Maneuver 749 713 - 784 711 -
Stage 1 899 821 - 908 818 -
Stage 2 876 817 - 920 818 -
Approach EB WB NB SB
HCM Control Delay, s 1.1 0.2 9.9 8.9
HCM LOS A A
HOW LOS
Minor Lane/Major Mvmt NBLn1 EBL EBT EBR WBL WBT WBR SBLn1
Capacity (veh/h) 749 1506 1541 933
HCM Lane V/C Ratio 0.02 0.007 0.001 0.014
HCM Control Delay (s) 9.9 7.4 0 - 7.3 0 - 8.9
HCM Lane LOS A A A - A A - A
HCM 95th %tile Q(veh) 0.1 0 0 0

Intersection						
Int Delay, s/veh	0.8					
		EDD	ND	NDT	CDT	CDD
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	W			^	ΦÞ	
Traffic Vol, veh/h	15	18	6	222	213	12
Future Vol, veh/h	15	18	6	222	213	12
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	130	-	_	-
Veh in Median Storage		_	100	0	0	_
Grade, %	, # 0			0	0	-
		- 02	- 02			
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	16	20	7	241	232	13
Major/Minor N	/linor2	N.	/lajor1	N	/lajor2	
						0
Conflicting Flow All	374	123	245	0	-	0
Stage 1	239	-	-	-	-	-
Stage 2	135	-	-	-	-	-
Critical Hdwy	6.84	6.94	4.14	-	-	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	2.22	-	-	-
Pot Cap-1 Maneuver	600	905	1318	_	_	_
Stage 1	778	-		_	_	_
Stage 2	877			_	-	
	077	-		-		
Platoon blocked, %	F07	005	1010	-	-	-
Mov Cap-1 Maneuver	597	905	1318	-	-	-
Mov Cap-2 Maneuver	597	-	-	-	-	-
Stage 1	774	-	-	-	-	-
Stage 2	877	-	-	-	-	-
Annacah	ED		ND		CD	
Approach	EB		NB		SB	
3	10.2		0.2		0	
HCM LOS	В					
Minor Lang/Major Mum	+	NDI	NDT	EDI 51	CDT	CDD
Minor Lane/Major Mvm	l .	NBL		EBLn1	SBT	SBR
Capacity (veh/h)		1318	-	733	-	-
HCM Lane V/C Ratio		0.005	-	0.049	-	-
HCM Control Delay (s)		7.7	-	10.2	-	-
HCM Lane LOS		Α	-	В	-	-
HCM 95th %tile Q(veh)		0	-	0.2	-	-
		-				

2.5						
	ED.5	14/51	MOT		NID	NDD
	FRK	WBL				NBR
						9
						9
						0
Free	Free	Free	Free		Stop	Stop
-	None	-	None		-	None
-	-	-	-		0	-
# 0	-	-	0		0	-
0	-	-	0		0	-
92	92	92	92		92	92
						2
						10
L ,	- 0		10		- 3	- 10
ajor1	1	Major2		M	linor1	
0	0	29	0		52	29
-	-	-	-		29	-
-	-	-	-			_
-	-	4.12	-			6.22
_	_	- 1.12	_			-
_	_	_	_			-
_	_					
						1046
		1304				1040
-	-	-				
-	-				1000	-
		1504			05.4	1047
		1584	-			1046
-	-	-	-			-
-	-	-	-			-
-	-	-	-		997	-
ED		MD			NID	
U		2.1				
					Α	
N	VRI n1	FRT	FRR	WRI	WRT	
					1001	
		-			-	
		-				
		-				
		-	-			
	0	-	-	0	-	
F	EBT 27 27 0 Free	EBT EBR 27 0 27 0 0 0 0 Free Free - None	EBT EBR WBL 27 0 5 27 0 5 27 0 0 Free Free Free - None 92 92 92 2 2 2 29 0 5 sijor1 Major2 0 0 29 4.12 4.12 1584 1584 1584 1584 1584 1584 2.218 - 1584 2.218 - 1584 2.218 - 1584 2.218 - 1584 2.218 - 1584 2.218 - 1584 2.218 - 1584 2.218 - 1584 2.218 - 1584 2.218 - 1584 2.218 - 1584 3.21	EBT EBR WBL WBT 1	EBT EBR WBL WBT 27 0 5 12 27 0 5 12 0 0 0 0 0 Free Free Free Free - None	EBT EBR WBL WBT NBL 27 0 5 12 3 27 0 5 12 3 0 0 0 0 0 0 0 Free Free Free Free Stop - None - None - O - None - O 0

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	Ť	ĵ»		*	†	7		4			€1 }	
Traffic Volume (veh/h)	120	661	6	5	619	313	0	3	9	268	3	167
Future Volume (veh/h)	120	661	6	5	619	313	0	3	9	268	3	167
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	130	718	7	5	673	285	0	3	7	291	3	117
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	277	1099	11	334	842	714	0	115	268	406	8	325
Arrive On Green	0.06	0.59	0.59	0.45	0.45	0.45	0.00	0.23	0.23	0.23	0.23	0.23
Sat Flow, veh/h	1781	1849	18	729	1870	1585	0	498	1163	1376	36	1412
Grp Volume(v), veh/h	130	0	725	5	673	285	0	0	10	291	0	120
Grp Sat Flow(s), veh/h/ln	1781	0	1867	729	1870	1585	0	0	1661	1376	0	1448
Q Serve(g_s), s	3.0	0.0	21.0	0.4	25.2	9.8	0.0	0.0	0.4	16.5	0.0	5.7
Cycle Q Clear(g_c), s	3.0	0.0	21.0	9.6	25.2	9.8	0.0	0.0	0.4	16.9	0.0	5.7
Prop In Lane	1.00	0.0	0.01	1.00	20.2	1.00	0.00	0.0	0.70	1.00	0.0	0.98
Lane Grp Cap(c), veh/h	277	0	1109	334	842	714	0.00	0	383	406	0	334
V/C Ratio(X)	0.47	0.00	0.65	0.01	0.80	0.40	0.00	0.00	0.03	0.72	0.00	0.36
Avail Cap(c_a), veh/h	389	0.00	1109	418	1059	898	0.00	0.00	407	406	0.00	334
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	15.4	0.0	11.0	18.1	19.3	15.0	0.0	0.0	24.3	30.8	0.0	26.3
Incr Delay (d2), s/veh	1.2	0.0	1.9	0.0	4.9	0.8	0.0	0.0	0.0	6.0	0.0	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.1	0.0	7.3	0.1	10.5	3.2	0.0	0.0	0.1	6.1	0.0	2.0
Unsig. Movement Delay, s/ve		0.0	7.5	0.1	10.0	0.2	0.0	0.0	0.1	0.1	0.0	2.0
LnGrp Delay(d),s/veh	16.6	0.0	12.9	18.1	24.2	15.8	0.0	0.0	24.3	36.8	0.0	27.0
LnGrp LOS	В	Α	В	В	C C	13.0 B	Α	Α	24.3 C	D	Α	27.0 C
Approach Vol, veh/h	D D	855	D	υ U	963	D D		10		U	411	
		13.4			21.7			24.3			34.0	
Approach LOS		13.4 B			21.7 C						34.0 C	
Approach LOS		D			C			С			C	
Timer - Assigned Phs		2		4	5	6		8				
Phs Duration (G+Y+Rc), s		55.4		26.2	11.7	43.6		26.2				
Change Period (Y+Rc), s		6.9		7.4	6.9	* 6.9		* 7.4				
Max Green Setting (Gmax), s		45.0		18.8	10.0	* 46		* 20				
Max Q Clear Time (g_c+I1), s	.	23.0		18.9	5.0	27.2		2.4				
Green Ext Time (p_c), s		8.9		0.0	0.1	9.5		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			20.8									
HCM 6th LOS			С									
Notes												

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Intersection						
Int Delay, s/veh	1.4					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	• •	↑	₽		N/A	
Traffic Vol, veh/h	61	771	766	20	9	78
Future Vol, veh/h	61	771	766	20	9	78
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	180	-	-	-	0	-
Veh in Median Storage	e,# -	0	0	-	1	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	5	2	2	2	2	2
Mvmt Flow	66	838	833	22	10	85
				_		
	Major1		/lajor2		Minor2	
Conflicting Flow All	855	0	-	0	1814	844
Stage 1	-	-	-	-	844	-
Stage 2	-	-	-	-	970	-
Critical Hdwy	4.15	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	2.245	-	-	-	3.518	3.318
Pot Cap-1 Maneuver	772	-	-	-	86	363
Stage 1	_	-	-	_	422	_
Stage 2	_	_	-	_	368	_
Platoon blocked, %		_	_	_	000	
Mov Cap-1 Maneuver	772	_	_	_	79	363
Mov Cap-1 Maneuver	- 112	_	_	_	208	-
Stage 1		_			386	
Stage 2	_		-		368	-
Staye 2	-	-	-	-	300	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.7		0		19.8	
HCM LOS					С	
Minor Long / Main 24		EDI	EDT	MOT	WDD	CDL 4
Minor Lane/Major Mvn	nt	EBL	EBT	WBT	WBR S	
Capacity (veh/h)		772	-	-	-	337
HCM Lane V/C Ratio		0.086	-	-	-	0.281
HCM Control Delay (s))	10.1	-	-	-	19.8
HCM Lane LOS HCM 95th %tile Q(veh		B 0.3	-	-	-	C 1.1

Intersection												
Int Delay, s/veh	1.3											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	6	44	2	0	56	5	5	3	3	0	0	2
Future Vol, veh/h	6	44	2	0	56	5	5	3	3	0	0	2
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	_	_	-	_	_	-	_	_	-	_	_	-
Veh in Median Storage	2.# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %		0	_	-	0	-		0			0	_
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	25	2	2	2	3	2	2	2	2	2	2	50
Mvmt Flow	7	48	2	0	61	5	5	3	3	0	0	2
Major/Minor 1	Major1		1	Major2		N	Minor1		1	Minor2		
Conflicting Flow All	66	0	0	50	0	0	128	129	49	130	128	64
Stage 1	-	-	-	-	-	-	63	63	-	64	64	-
Stage 2	_	_	_	_	_	_	65	66	_	66	64	_
Critical Hdwy	4.35	_	_	4.12	_	_	7.12	6.52	6.22	7.12	6.52	6.7
Critical Hdwy Stg 1	-		_	-			6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	_	-	_	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.425		_	2.218			3.518	4.018	3.318	3.518	4.018	3.75
Pot Cap-1 Maneuver	1401	-	_	1557	_	-	845	762	1020	843	763	881
Stage 1	-	-	-	-	-	-	948	842	_	947	842	-
Stage 2	-	-	-	-	-	-	946	840	_	945	842	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1401	-	-	1557	-	-	840	758	1020	835	759	881
Mov Cap-2 Maneuver	-	-	-	-	-	-	840	758	-	835	759	-
Stage 1	-	-	-	-	-	-	943	838	-	942	842	-
Stage 2	-	-	-	-	-	-	944	840	-	934	838	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.9			0			9.3			9.1		
HCM LOS							Α			Α		
Minor Lane/Major Mvm	nt I	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR S	SBLn1			
Capacity (veh/h)		856	1401	-	-	1557	-	-	881			
HCM Lane V/C Ratio			0.005	-	-	-	-	_	0.002			
HCM Control Delay (s)		9.3	7.6	0	-	0	-	-	9.1			
HCM Lane LOS		A	A	A	-	A	-	-	Α			
HCM 95th %tile Q(veh)	0	0	-	-	0	-	-	0			
	,											

Intersection						
Int Delay, s/veh	1.6					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
	₩.	LUK	NDL	† †		אטכ
Lane Configurations Traffic Vol., veh/h	'T ' 16	42	36	TT 228	↑ ↑	13
Future Vol, veh/h	16	42	36	228	218	13
· ·			36			
Conflicting Peds, #/hr	O Ctop	O Ctop		0 Eroo	0	0 Eroo
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	120	None	-	None
Storage Length	0	-	130	-	-	-
Veh in Median Storage		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	17	46	39	248	237	14
Major/Minor N	Minor2	, A	/aior1	N	/lajor2	
			Major1			^
Conflicting Flow All	446	126	251	0	-	0
Stage 1	244	-	-	-	-	-
Stage 2	202	-	-	-	-	-
Critical Hdwy	6.84	6.94	4.14	-	-	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	2.22	-	-	-
Pot Cap-1 Maneuver	541	901	1311	-	-	-
Stage 1	774	-	-	-	-	-
Stage 2	812	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	525	901	1311	-	-	-
Mov Cap-2 Maneuver	525	-		_	_	_
Stage 1	751	_		_	_	
Ğ	812	-	-		-	
Stage 2	012	-	-	-	-	-
Approach	EB		NB		SB	
HCM Control Delay, s	10.2		1.1		0	
HCM LOS	В					
Minor Long/Major Mum	\t	NDI	NDT	EDI n1	CDT	CDD
Minor Lane/Major Mvm	IL	NBL		EBLn1	SBT	SBR
Capacity (veh/h)		1311	-		-	-
HCM Lane V/C Ratio		0.03	-	0.084	-	-
HCM Control Delay (s)		7.8	-	10.2	-	-
HCM Lane LOS		Α	-	В	-	-
HCM 95th %tile Q(veh)	0.1	-	0.3	-	-

Intersection							
Int Delay, s/veh	5.1						
	EBT	EBR	WBL	WBT		NBL	NBR
Lane Configurations	<u>EBI</u>	LDK	WDL	WDI 4		INDL M	NOR
Traffic Vol, veh/h	28	4	36	4		4 .	34
Future Vol, veh/h	28	4	36	12		6	34
Conflicting Peds, #/hr	0	0	0	0		0	0
•	Free	Free	Free	Free		Stop	Stop
RT Channelized	-	None	-	None		Jiop -	None
Storage Length	_	-	_	-		0	-
Veh in Median Storage,		_	-	0		0	_
Grade, %	0	_	_	0		0	_
Peak Hour Factor	92	92	92	92		92	92
Heavy Vehicles, %	2	2	2	2		2	2
Mymt Flow	30	4	39	13		7	37
	- 50		07	10			0,
Major/Minor	nior1		Joint?		V V;	no-1	
	ajor1		Major2	^	IVII	nor1	22
Conflicting Flow All	0	0	34	0		123	32
Stage 1	-	-	-	-		32	-
Stage 2	-	-	4.40	-		91	-
Critical Hdwy	-	-	4.12	-		6.42	6.22
Critical Hdwy Stg 1	-	-	-	-		5.42	-
Critical Hdwy Stg 2	-	-	2 210	-		5.42	2 210
Follow-up Hdwy	-	-	2.218	-	3		3.318
Pot Cap-1 Maneuver	-	-	1578	-		872	1042
Stage 1	-	-	-	-		991	-
Stage 2	-	-	-	-		933	-
Platoon blocked, %	-	-	1570	-		050	1042
Mov Cap-1 Maneuver	-	-	1578	-		850	1042
Mov Cap-2 Maneuver	-	-	-	-		850	-
Stage 1	-	-	-	-		991	-
Stage 2	-	-	-	-		910	-
Approach	EB		WB			NB	
HCM Control Delay, s	0		5.5			8.7	
HCM LOS						Α	
Minor Lane/Major Mvmt	N	NBLn1	EBT	EBR	WBL \	NBT	
Capacity (veh/h)	<u> </u>	1008	-		1578	ועזי	
HCM Lane V/C Ratio		0.043	-		0.025	-	
HCM Control Delay (s)		8.7	-	-	7.3	0	
HCM Lane LOS		Α	-	-	7.3 A	A	
HCM 95th %tile Q(veh)		0.1	_		0.1	-	
110W 75W 70W Q(VCH)		U. I			U, I	_	

	۶	→	•	•	←	•	4	†	/	/	↓	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	₽		ሻ	•	7		4			ፋው	
Traffic Volume (veh/h)	132	679	6	5	636	343	0	3	9	290	3	180
Future Volume (veh/h)	132	679	6	5	636	343	0	3	9	290	3	180
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	143	738	7	5	691	318	0	3	7	315	3	131
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	276	1115	11	329	854	724	0	112	262	397	7	319
Arrive On Green	0.06	0.60	0.60	0.46	0.46	0.46	0.00	0.23	0.23	0.23	0.23	0.23
Sat Flow, veh/h	1781	1850	18	715	1870	1585	0	498	1163	1376	32	1415
Grp Volume(v), veh/h	143	0	745	5	691	318	0	0	10	315	0	134
Grp Sat Flow(s), veh/h/ln	1781	0	1867	715	1870	1585	0	0	1661	1376	0	1447
Q Serve(g_s), s	3.3	0.0	22.0	0.4	26.5	11.4	0.0	0.0	0.4	18.4	0.0	6.6
Cycle Q Clear(g_c), s	3.3	0.0	22.0	10.2	26.5	11.4	0.0	0.0	0.4	18.8	0.0	6.6
Prop In Lane	1.00		0.01	1.00		1.00	0.00		0.70	1.00		0.98
Lane Grp Cap(c), veh/h	276	0	1125	329	854	724	0	0	375	397	0	327
V/C Ratio(X)	0.52	0.00	0.66	0.02	0.81	0.44	0.00	0.00	0.03	0.79	0.00	0.41
Avail Cap(c_a), veh/h	378	0	1125	399	1037	879	0	0	399	397	0	327
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	16.0	0.0	10.9	18.3	19.5	15.4	0.0	0.0	25.1	32.6	0.0	27.5
Incr Delay (d2), s/veh	1.5	0.0	2.0	0.0	5.4	0.9	0.0	0.0	0.0	10.6	0.0	0.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.2	0.0	7.6	0.1	11.1	3.8	0.0	0.0	0.2	7.3	0.0	2.3
Unsig. Movement Delay, s/vel		0.0	,,,	0		0.0	0.0	0.0	0.2	7.10	0.0	2.0
LnGrp Delay(d),s/veh	17.5	0.0	12.9	18.4	24.9	16.3	0.0	0.0	25.2	43.2	0.0	28.3
LnGrp LOS	В	A	В	В	C	В	A	A	C	D	A	C
Approach Vol, veh/h		888			1014			10			449	
Approach Delay, s/veh		13.6			22.1			25.2			38.8	
Approach LOS		В			C C			23.2 C			J0.0	
											ט	
Timer - Assigned Phs		2		4	5	6		8				
Phs Duration (G+Y+Rc), s		57.1		26.2	12.1	45.0		26.2				
Change Period (Y+Rc), s		6.9		7.4	6.9	* 6.9		* 7.4				
Max Green Setting (Gmax), s		45.0		18.8	10.0	* 46		* 20				
Max Q Clear Time (g_c+l1), s		24.0		20.8	5.3	28.5		2.4				
Green Ext Time (p_c), s		9.0		0.0	0.1	9.5		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			22.1									
HCM 6th LOS			С									
Notes												

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Intersection									
Intersection Int Delay, s/veh 1.5									
Movement	EBL	EBT	WBT	WBR	SBL	SBR			
Lane Configurations		↑	₽		N/A				
Traffic Vol, veh/h	67	800	795	22	10	84			
Future Vol, veh/h	67	800	795	22	10	84			
Conflicting Peds, #/hr	0	0	0	0	0	0			
Sign Control	Free	Free	Free	Free	Stop	Stop			
RT Channelized	-	None	-	None	-	None			
Storage Length	180	-	-	-	0	-			
Veh in Median Storage	e,# -	0	0	-	1	-			
Grade, %	-	0	0	-	0	-			
Peak Hour Factor	92	92	92	92	92	92			
Heavy Vehicles, %	5	2	2	2	2	2			
Mvmt Flow	73	870	864	24	11	91			
	, 0	0.0			• •				
				_					
	Major1		/lajor2		Minor2				
Conflicting Flow All	888	0	-	0	1892	876			
Stage 1	-	-	-	-	876	-			
Stage 2	-	-	-	-	1016	-			
Critical Hdwy	4.15	-	-	-	6.42	6.22			
Critical Hdwy Stg 1	-	-	-	-	5.42	-			
Critical Hdwy Stg 2	-	-	-	-	5.42	-			
Follow-up Hdwy	2.245	-	-	-	3.518	3.318			
Pot Cap-1 Maneuver	750	-	_	-	77	348			
Stage 1	-	-	_	-	407	-			
Stage 2	_	_	_	-	350	_			
Platoon blocked, %		_	_	_					
Mov Cap-1 Maneuver	750	_	_	_	70	348			
Mov Cap-1 Maneuver	-	_	_	<u>-</u>	196	J 1 0			
Stage 1					368	_			
Stage 2		-	-	-	350	-			
Staye 2	-	-	-	-	330	-			
Approach	EB		WB		SB				
HCM Control Delay, s	0.8		0		21.4				
HCM LOS					С				
					14/00	201 4			
		ED.	COT.			RINT			
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR S				
Capacity (veh/h)	nt	750	EBT -	WBT -	-	321			
Capacity (veh/h) HCM Lane V/C Ratio		750 0.097	EBT -	- WBT -	-	321 0.318			
Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)		750 0.097 10.3	-	-	-	321 0.318 21.4			
Capacity (veh/h) HCM Lane V/C Ratio		750 0.097	-	-	-	321 0.318			

Intersection	
Int Delay, s/veh 1.5	
	CDD
	SBR
Lane Configurations	4
Traffic Vol, veh/h 8 45 2 0 57 5 5 3 3 0 0	4
Future Vol, veh/h 8 45 2 0 57 5 5 3 3 0 0	4
Conflicting Peds, #/hr 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0
	Stop
	None
Storage Length	-
Veh in Median Storage, # - 0 0 0	-
Grade, % - 0 0 0 0 Peak Hour Factor 92 92 92 92 92 92 92 92 92 92	-
	92
Heavy Vehicles, % 25 2 2 2 3 2 2 2 2 2 2 Mvmt Flow 9 49 2 0 62 5 5 3 3 0 0	50 4
Mvmt Flow 9 49 2 0 62 5 5 3 3 0 0	4
Major/Minor Major1 Major2 Minor1 Minor2	
Conflicting Flow All 67 0 0 51 0 0 135 135 50 136 134	65
Stage 1 68 68 - 65 65	-
Stage 2 67 67 - 71 69	-
Critical Hdwy 4.35 4.12 7.12 6.52 6.22 7.12 6.52	6.7
Critical Hdwy Stg 1 6.12 5.52 - 6.12 5.52	-
Critical Hdwy Stg 2 6.12 5.52 - 6.12 5.52	-
Follow-up Hdwy 2.425 2.218 3.518 4.018 3.318 3.518 4.018 3	3.75
	880
Stage 1 942 838 - 946 841	-
Stage 2 943 839 - 939 837	-
Platoon blocked, %	
	880
Mov Cap-2 Maneuver 828 751 - 825 752	-
Stage 1 935 832 - 939 841	-
Stage 2 938 839 - 926 831	-
Approach EB WB NB SB	
HCM Control Delay, s 1.1 0 9.3 9.1	
HCM LOS A A	
TIOM LOO	
Minor Lane/Major Mvmt NBLn1 EBL EBT EBR WBL WBT WBR SBLn1	
Capacity (veh/h) 847 1400 1555 880	
HCM Lane V/C Ratio 0.014 0.006 0.005	
HCM Control Delay (s) 9.3 7.6 0 - 0 - 9.1	
HCM Lane LOS A A A - A A	
HCM 95th %tile Q(veh) 0 0 0 0	



Appendix G: Growth Rate Information Project: Longboat Key Town Center Location: Longboat Key, Sarasota County

Notes: FDOT AADT

Volume Source #1: 0039 Gulf of Mexico Dr Volume Source #2: 0028 Gulf of Mexico Dr

Volume Source #3: Volume Source #4: Volume Source #5:

			Volume	Volume	Volume	Volume	Volume	Average
Line	Month	Year	Source #1	Source #2	Source #3	Source #4	Source #5	Volume
1		2014	15100	10400				12750
2		2015	13100	9200				11150
3		2016	12800	8500				10650
4		2017	17000	11700				14350
5		2018	17500	12400				14950
6		2019	13600	9300				11450
7		2020	16400	11900				14150
8								
9								
10								

	IN	PUT DATA		OUTPUT DATA							
			Aggregate Traffic				Best Fit Volume				
Line	Month	Year	Volume	Line	Month	Year	Trend				
1		2014	12750	1		2014	11803.57143				
2		2015	11150	2		2015	12128.57143				
3		2016	10650	3		2016	12453.57143				
4		2017	14350	4		2017	12778.57143				
5		2018	14950	5		2018	13103.57143				
6		2019	11450	6		2019	13428.57143				
7		2020	14150	7		2020	13753.57143				
8				8							
9				9							
10				10							

Slope: 325 Intercept: -642746.4286 R²: 0.164175258

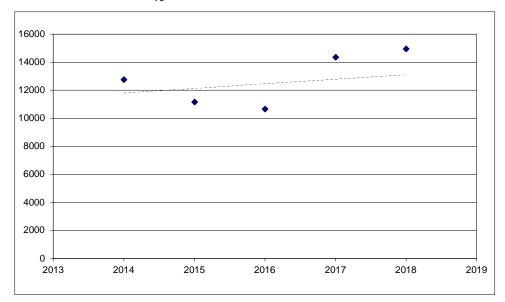
Standard Error: 1735.326235

Exponential

Growth Rate: 2.58%
Future = Existing (1+Growth)^N

Linear

Growth Rate: 2.75%
Future = Existing (1+Growth*N)





November 2, 2022

RE:600 BAY ISLES RD Site Development Plan and Amendment to PUD/ODP for Town Center Project TOWN OF LONGBOAT KEY

Landscape Comment responses

- 1. Please provide the type and location of all existing trees protected by Town regulations, including a plan how the removal of such vegetation would be avoided or replanted or replaced (per Section 158.028 (H)). Please include a table showing an exact count of the number of trees proposed to be removed, replaced, and planted.
 - A tree removal and protection plan has been added to the Landscape Plan set. This plan illustrates and quantifies trees removed and replacement provided. See sheet L-12.
- Please submit a landscaping plan in accordance with Section 158.030(E)(5). The landscaping plan shall show compliance with 158.100(J).
 - (J) Landscaping. The atmosphere within a parking area is intended to be park-like. Towards this objective the following standards shall be observed in the design and construction of parking areas:
 - (1) At least 15 percent of the total interior parking area shall be suitably landscaped. A portion of the required landscaping for the interior parking area may be relocated to emphasize entrance corridors or special landscaped areas within the general parking area. For purposes of this section, the interior parking area is that area used for the parking and maneuvering of automobiles, including that part of any aisle or drive necessary to enter a parking space.
 - (2) This landscaping shall include the placement of a mature replacement tree at intervals of approximately each five parking spaces.
 - (3) Interior portions of the parking area shall be broken up by the provision of landscaped islands. All landscaped islands shall be serviced by an adequate irrigation system.
 - (4) A maximum of 12 parking spaces in a row will be permitted without an island. Each island shall be at a minimum the same size and dimensions as one approved parking space.

All trees, landscape islands, and other landscape areas shall be protected from vehicular encroachment

The Landscape plan has previously been issued. No parking areas are added to this site only slight modifications to existing parking for handicap. The plan proposed is park like and 24 Florida Fancy (100 gallon 14'x7' spread - 4' caliper) Live Oak trees are proposed around the event area.

Respectfully submitted, Phillip J. Smith, ASLA

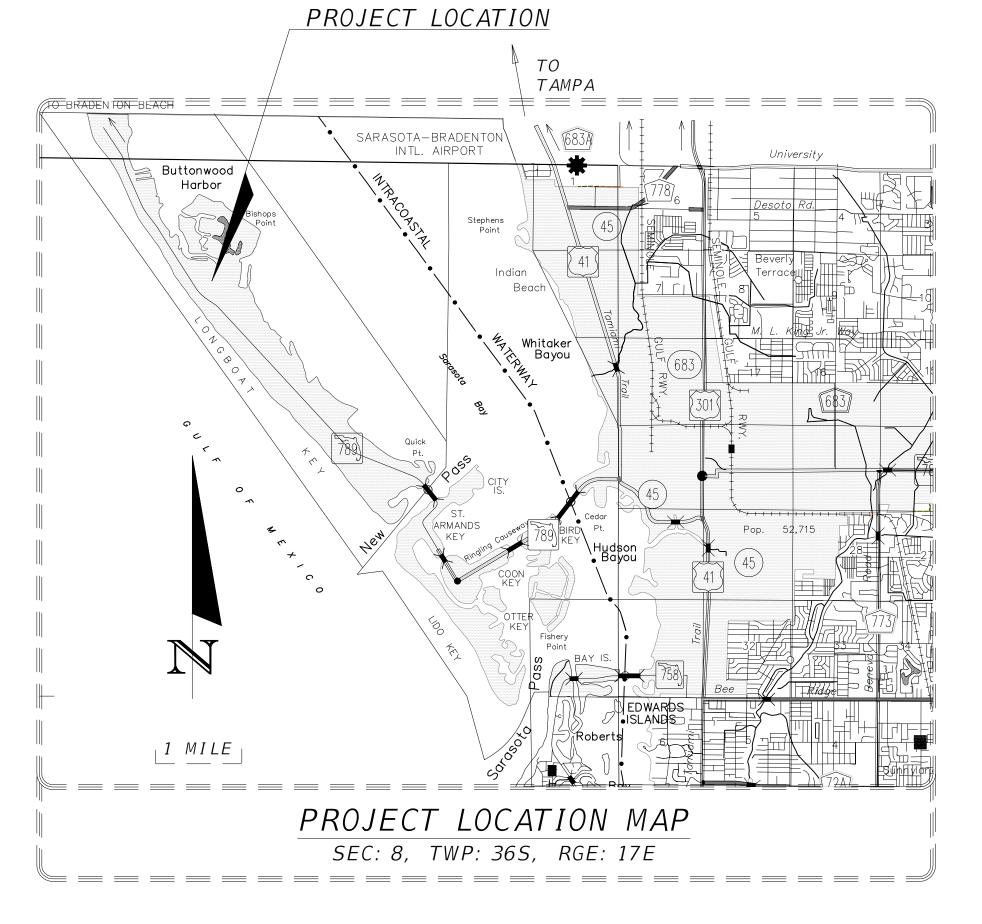
TOWN OF LONGBOAT KEY PUBLIC WORKS

600 GENERAL HARRIS STREET LONGBOAT KEY, FL 34228 (941) 316-1988

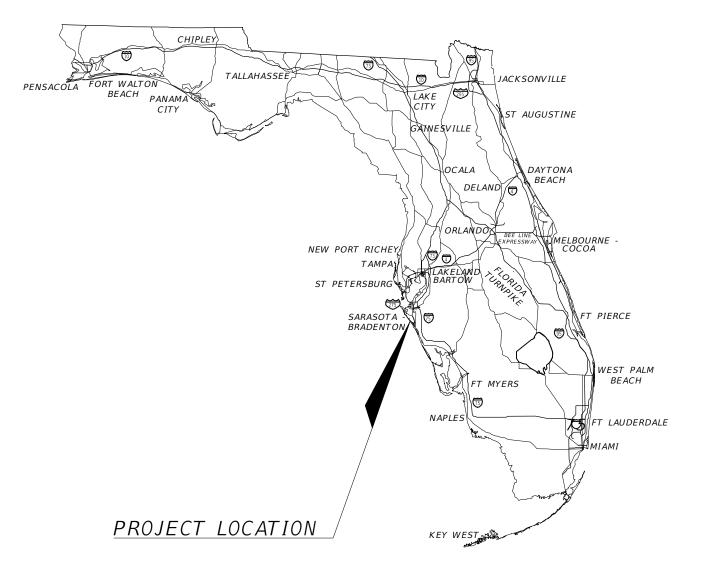
INDEX OF DRAWINGS

VDL/	(OI DIVIVOS
HEET No.	SHEET DESCRIPTION
K – 1	KEY SHEET
1	GENERAL NOTES AND ABBREVIATIONS
2	AERIAL PHOTO AND MASTER SITE PLAN
3	EXISTING CONDITION AND DEMOLITION PLAN
4	GRADING AND DRAINAGE PLAN
5	PROJECT CROSS SECTIONS
6	DRAINAGE DETAILS
7	SITE DETAILS (1)
8	SITE DETAILS (2)
9	UTILITY PLAN
10	UTILITY DETAILS
11	BEST MANAGEMENT PRACTICES PLAN & GENERAL NOTES

BEST MANAGEMENT PRACTICES DETAILS







TOWN OF LONGBOAT KEY COMMISSIONERS: SHERRY DOMINICK DISTRICT 1 DISTRICT 2 PENNY GOLD DISTRICT 3 KEN SCHNEIER, MAYOR DISTRICT 4 DEBRA WILLIAMS MAUREEN MERRIGAN, VICE MAYOR DISTRICT 5 B.J. BISHOP AT-LARGE AT-LARGE MIKE HAYCOCK

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA,

PLANS PREPARED BY:



JOHN K. PARI P.E. NO.: 56368 DMK ASSOCIATES, INC. 421 COMMERCIAL COURT, SUITE C VENICE, FL, 34292 CONTRACT NO.: N/A VENDOR NO .: N/A

DMK ASSOCIATES, INC. CERTIFICATE OF AUTHORIZATION NO.: 3943

GOVERNING DESIGN STANDARDS: Florida Department of Transportation, FY2020-21 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs)

Standard Plans for Road Construction and associated IRs are available at the following website: http://www.fdot.gov/design/standardplans

GOVERNING STANDARD SPECIFICATIONS: Florida Department of Transportation, January, 2021 Standard Specifications for Road and Bridge Construction at the following website: http://www.fdot.gov/programmanagement/Implemented/SpecBooks

DOCUMENTS FOR THIS PROJECT.

ALL NEW STORM DRAIN LINES AND ASSOCIATED COMPONENTS SHALL BE CONSTRUCTED TO ALIGNMENT AND LOCATION AS SHOWN IN THE PLANS UNLESS OTHERWISE DIRECTED BY ENGINEER

REPLACEMENT OF ANY WORK THAT DEVIATES FROM THE DESIGN STANDARDS AND APPROVED CONSTRUCTION

- ALL REINFORCED CONCRETE PIPE (RCP), & ELLIPTICAL REINFORCED CONCRETE PIPE (ERCP) SHALL BE CLASS III PIPE PER FDOT INDEX 205.
- 4. ALL ERCP SHALL BE INSTALLED WITH THE LONGITUDINAL AXIS PLACED HORIZONTALLY UNLESS NOTED *OTHERWISE*
- ALL EARTHWORK AND COMPACTION SHALL BE INSPECTED BY THE ENGINEER OR DULY APPOINTED REPRESENTATIVE, PRIOR TO FILLING OR CONSTRUCTION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY, PRIOR TO BIDDING, TO INSPECT THE JOB SITE AND TO BE TOTALLY FAMILIAR WITH THE PLANS AND THEIR INTENT
- THE CONTRACTOR SHALL PROVIDE CERTIFIED RECORD INFORMATION THAT MEET THE TOWN OF LBK PERMIT REQUIREMENTS TO THE ENGINEER.
- CONTRACTOR SHALL MAINTAIN SLOPES AND SOD UNTIL COMPLETION AND ACCEPTANCE OF TOTAL PROJECT OR GROWTH IS ESTABLISHED. UNTIL ACCEPTANCE, ALL EROSION, SILTATION AND MAINTENANCE OF GRADES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- IT IS THE INTENT OF THE TOWN OF LBK TO SAVE ALL EXISTING TREES IN THE PROJECT LIMITS WHERE FEASIBLE. CONTRACTOR SHALL PROVIDE THE NECESSARY MEASURES TO ENSURE TREES ARE PROTECTED DURING CONSTRUCTION AS INDICATED ON THE LANDSCAPE PLANS
- 10. WHERE EXCAVATIONS ARE IN CLOSE PROXIMITY OF TREES, THE CONTRACTOR SHALL USE EXTREME CARE IN NOT DAMAGING THE ROOT SYSTEM. NO EQUIPMENT, SUPPLIES, OR VEHICLES SHALL BE STORED OR PARKED WITHIN THE DRIP LINES OF THE TREES TO REMAIN AND BE PRESERVED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM ALL EMPLOYEES AND SUBCONTRACTORS OF THIS REQUIREMENT AND TO ENFORCE SAME.
- 11. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS DURING CONSTRUCTION TO CONTROL EROSION AND PREVENT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, STORM DRAINS AND/OR ADJACENT PROPERTIES. SILT SCREENS, AND/OR FILTER FABRIC, OR OTHER STANDARD EROSION CONTROL DEVICES SHALL BE PROVIDED IN ACCORDANCE WITH F.D.O.T. STANDARDS. EROSION CONTROL DEVICES (E.G. SILT SCREENS, TURBIDITY CURTAINS) SHALL BE INSTALLED AND MAINTAINED IN LOCATIONS INDICATED ON THE CONSTRUCTION PLANS OR ADDITIONALLY AT LOCATIONS WHERE CONSTRUCTION ACTIVITIES OR UNSTABILZED SOILS HAVE THE POTENTIAL TO BE TRANSPORTED INTO AND/OR RESULT IN SEDIMENTATION OR TURBIDITY ENTERING WATERWAYS, WATER BODIES, WETLANDS, OR PRIVATE PROPERTIES.
- 12. CONTRACTOR SHALL MAINTAIN TRAFFIC IN ACCORDANCE WITH FDOT INDEX 102-600 SERIES (2020/2021)
- 13. CONTRACTOR SHALL SPRINKLE OR OTHERWISE APPLY WATER TO EXPOSED CONSTRUCTION AREAS TO CONTROL SIGNIFICANT EROSION AND FUGITIVE DUST
- 14. ALL CLEARING, GRUBBING AND CONSTRUCTION DEBRIS TO BE REMOVED FROM SITE AND PROPERLY DISPOSED
- 15. THE REMOVAL OF ANY EXISTING STRUCTURES OR STORM SEWERS, HEADWALLS ETC., SHALL BE CONSIDERED INCIDENTAL WORK AND NO ADDITIONAL COMPENSATION SHALL BE MADE FOR THESE ITEMS.
- 16. ALL SIGNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH MUTCD CRITERIA FOR SIGN SIZE, SHAPE, LETTERING DIMENSIONS AND REFLECTIVITY.
- 17. THE CONTRACTOR SHALL COORDINATE RELOCATION OF ALL AFFECTED EXISTING UTILITIES AND COORDINATE THE INSTALLATION OF NEW UTILITIES WITH THE APPROPRIATE UTILITY COMPANIES.
- 8. THE LOCATION OF EXISTING UNDERGROUND UTILITIES, SHOWN IN PLANS, HAVE BEEN APPROXIMATED AND HAVE NOT BEEN INDEPENDENTLY VERIFIED. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL UTILITIES PRIOR TO COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTORS FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UNDERGROUND UTILITIES. CALL SUNSHINE STATE ONE CALL FLORIDA, INC. @ (PHONE No. 811), 48 HOURS BEFORE YOU
- 19. IF UTILITY POLES, GUY WIRES, CATV BOXES, COMMUNICATION SPLICE BOXES, OR OTHER UTILITY OBSTRUCTIONS LOCATED IN THE AREA WHERE SIDEWALKS ARE TO BE CONSTRUCTED, THEN THE ENGINEER SHALL BE NOTIFIED, IF THEY PRESENT UNUSUAL PROBLEMS. ALL WATER AND SEWER VALVE BOXES, METER BOXES, BACKFLOW PREVENTERS AND AIR RELEASE VALVES ARE TO BE ADJUSTED TO FINISHED GRADE BY THE CONTRACTOR.
- 20. SOD SHALL BE LAID AT BACK OF CURB, PAVEMENT EDGES, SWALES, INLETS, MITERED ENDWALLS, AND DETENTION AREAS AS SHOWN IN DETAILS OR AS DIRECTED BY THE ENGINEER, AND IN ALL AREAS DISTURBED BY THE WORK.
- 21. ALL AREAS DISTURBED BY CONSTRUCTION ARE TO BE SODDED WITHIN 7 CALENDAR DAYS TO PREVENT EROSION
- 22. ALL PROPOSED GROUND ELEVATIONS ARE FINISHED SOD ELEVATIONS. FINISH GRADING SHALL BE 0.2 FEET LESS THAN ELEVATIONS SHOWN TO ALLOW FOR THICKNESS OF SOD.
- 23. ALL TYPE B (CONCRETE, BROKEN ASPHALT, ROCKS), TYPE C (VEGETATIVE LAND CLEARING DEBRIS), OR TYPE D (REFUSE, PLASTIC, WOOD, METAL, ETC.) FILLS GENERATED BY THE PROJECT SHALL BE DISPOSED OF AT A PERMITTED LANDFILL OR RECYCLE FACILITY. ALL EXCESS TYPE A (CLEAN EARTHEN MATERIAL) SHALL BE HAULED TO A PERMITTED LANDFILL, TOWN OWNED PROPERTY, OR SITE AUTHORIZED UNDER A BUILDING PERMIT, EARTH MOVING PERMIT, OR CONSTRUCTION PLAN APPROVAL TO RECEIVE FILL.
- 24. IT IS THE CONTRACTORS RESPONSIBILITY TO BARRICADE AREAS UNDER CONSTRUCTION PURSUANT TO MAINTENANCE OF TRAFFIC PLANS OR AS OTHERWISE APPROVED FOR USE.
- 25. PLEASE NOTE THAT ON PLANS, POSITIVE DRAINAGE SHALL BE PROVIDED OR ALL ADJACENT PROPERTIES AND MAINTAIN ALL HISTORIC OFFSITE FLOW PATTERNS.
- 26. ALL PARKING STALL PAVEMENT MAKINGS SHALL PER FDOT INDEX 711-001 "PAINTED PAVEMENT MARKING", SEE DETAIL ON SHEET 7.
- 27. A TREE PERMIT WILL BE REQUIRED PRIOR TO ANY CONSTRUCTION, NATIVE VEGETATIVE REMOVAL WITHIN THE DRIPLINE OF A TREE, AND/OR TREE REMOVAL

GENERAL NOTES (CONTINUED):

- 28. ANY WELLS DISCOVERED DURING EXCAVATION, EARTHMOVING OR CONSTRUCTION MUST BE REPORTED TO THE TOWN OF LBK / SARASOTA COUNTY HEALTH DEPARTMENT ENVIRONMENTAL HEALTH WITHIN 24 HOURS OF DISCOVERY.
- 29. ALL CONCRETE DRAINAGE STRUCTURES AND PIPES SHALL BE CONSTRUCTED WITH 3,000 PSI CONCRETE
- 30. ALL DRAINAGE PIPE JOINTS SHALL BE WRAPPED PER FDOT INDEX 430-001
- 31. CONSTRUCTED SIDEWALK SHALL BE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT AND THE FLORIDA ACCESSIBILITY CODE.
- 32. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AREAS FOR STAGING AND STOCKPILING CONSTRUCTION MATERIALS AND WASTE OVERBURDEN INCLUDING APPROPRIATE EROSION AND SEDIMENTATION CONTROL DEVICES AND BEST MANAGEMENT PRACTICES.
- 33. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER HANDLING AND DISPOSAL OF CONTAMINATED SOILS IN ACCORDANCE WITH ALL STATE AND FEDERAL LAWS.
- 34. THE ONLY ACCEPTABLE METHODS FOR REMOVAL OF PAVEMENT MARKINGS ARE HYDRO-BLASTING OR GRINDING. EXISTING MARKINGS SHALL NO LONGER BE VISIBLE UPON COMPLETION OF THE REMOVAL
- 35. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING DEWATERING PERMIT BY SWFWMD (IF REQUIRED) AND SHALL ALLOW 45 DAYS FOR APPROVAL PROCESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FOLLOWING ALL PERMIT REQUIREMENTS RELATED TO DEWATERING. ALL WORK PERFORMED, INCLUDING PERMITTING, WILL BE INCIDENTAL TO THE PAYMENT ITEMS OF STANDARD SPECIFICATIONS, SECTION 120, EXCAVATION, EMBANKMENT AND GRADING

PERVIOUS PAVEMENT MAINTENANCE:

- 1. ALL POROUS PAVEMENT SHOULD BE INSPECTED ANNUALLY
- 2. INSPECTIONS SHOULD BE CONDUCTED AFTER LARGE STORM EVENTS. INSPECTIONS SHOULD CHECK FOR SURFACE PONDING THAT MIGHT INDICATE LOCAL OR WIDESPREAD CLOGGING.
- LITTER AND LEAF REMOVAL SHOULD BE CARRIED OUT REGULARLY. INDUSTRIAL AND BACKPACK BLOWERS ARE RECOMMENDED EQUIPMENT FOR THIS TASK.
- 4. THE POROUS PAVEMENT SURFACE SHOULD BE VACUUM SWEPT AT LEAST 2 TIMES PER YEAR. HIGH PRESSURE JET HOSING TO KEEP THE PORES OPEN, SHOULD BE PERFORMED ONE (1) TIME PER YEAR.
- SPOT CLOGGING OF THE POROUS PAVEMENT CAN BE RELIEVED BY DRILLING HALF-INCH HOLES THROUGH THE POROUS PAVEMENT LAYER EVERY FEW FEET. IN CASES WHERE CLOGGING OCCURS IN A LOW SPOT IN THE PAVEMENT, IT MAY BE ADVISABLE TO INSTALL A DROP INLET TO ROOT WATER INTO THE STONE RESERVOIR POTHOLES AND CRACKS CAN BE REPAIRED USING CONVENTIONAL, NONPOROUS PATCHING MIXES AS LONG AS THE CUMULATIVE AREA REPAIRED DOES NOT EXCEED 10% OF THE PARKING LOT AREA.
- 6. THE DOUBLE-RING INFILTROMETER METHOD CONSISTS OF DRIVING TWO OPEN CYLINDERS, ONE INSIDE THE OTHER, INTO THE GROUND, PARTIALLY FILLING THE RINGS WITH WATER OR OTHER LIQUID, AND THEN MAINTAINING THE LIQUID AT A CONSTANT LEVEL. THE VOLUME OF LIQUID ADDED TO THE INNER RING, TO MAINTAIN THE LIQUID LEVEL CONSTANT IS THE MEASURE OF THE VOLUME OF LIQUID THAT INFILTRATES THE SOIL. THE VOLUME INFILTRATED DURING TIMED INTERVALS IS CONVERTED TO AN INCREMENTAL INFILTRATION VELOCITY. USUALLY EXPRESSED IN CENTIMETERS PER HOUR OR INCH PER HOUR.

THESE CONDITIONS ARE IN ADDITION TO ANY JURISDICTIONAL AGENCY REQUIREMENTS. PLEASE REFER TO THE SPECIFIC AND STANDARD CONDITIONS OF THE SWFWMD PERMIT

HISTORY CENTER NOTES:

THE FOLLOWING REQUIREMENTS APPLY TO ALL BUILDING CONSTRUCTION OR ALTERATION, OR LAND ALTERATION ACTIVITIES.

- 1. IF EVIDENCE OF THE EXISTENCE OF CULTURAL RESOURCES IS DISCOVERED OR OBSERVED AT DEVELOPMENT SITES OR DURING DEVELOPMENT ACTIVITIES AFTER FINAL APPROVAL, ALL WORK SHALL CEASE IN THE AREA OF EFFECT AS DETERMINED BY THE DIRECTOR. THE DEVELOPER, OWNER, CONTRACTOR, OR AGENT THEREOF SHALL NOTIFY THE DIRECTOR OF HISTORICAL RESOURCES WITHIN TWO WORKING DAYS. EXAMPLES OF SUCH EVIDENCE MAY INCLUDE WHOLE OR FRAGMENTARY STONE TOOLS, SHELL TOOLS, ABORIGINAL OR HISTORIC POTTERY, HISTORIC GLASS, HISTORIC BOTTLES, BONE TOOLS, HISTORIC BUILDING FOUNDATIONS, SHELL MOUNDS, SHELL MIDDENS, OR SAND MOUNDS. THE DIRECTOR SHALL ASSESS THE SIGNIFICANCE OF THE FINDS WITHIN THREE WORKING DAYS OF NOTIFICATION AND TO MITIGATE ANY ADVERSE EFFECTS SO AS TO MINIMIZE DELAYS TO DEVELOPMENT ACTIVITIES.
- 2. IF ANY HUMAN SKELETAL REMAINS OR ASSOCIATED BURIAL ARTIFACTS ARE DISCOVERED AT DEVELOPMENT SITES OR DURING DEVELOPMENT ACTIVITY, ALL WORK IN THAT PARTICULAR AREA MUST CEASE, AND THE PERMITTEE MUST IMMEDIATELY NOTIFY THE NEAREST LAW ENFORCEMENT OFFICE AND NOTIFY THE DIRECTOR OF HISTORICAL RESOURCES WITHIN TWO WORKING DAYS. ACCORDING TO CHAPTER 872, FLORIDA STATUTES, IT IS UNLAWFUL TO DISTURB, VANDALIZE, OR DAMAGE A HUMAN BURIAL

WATER RESOURCE NOTES:

- EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPS) IN ADDITION TO THOSE PRESENTED ON THE PLANS AND OUTLINED IN THE EROSION AND SEDIMENT CONTROL PLAN (ECP) AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE IMPLEMENTED AS NECESSARY TO PREVENT TURBID DISCHARGES FROM FLOWING ONTO ADJACENT PROPERTIES OR ROADWAYS. OFF SITE STORMWATER CONVEYANCES OR RECEIVING WATERS. OR ON SITE WETLANDS AND SURFACE WATERS. BMPS SHALL BE DESIGNED, INSTALLED, AND MAINTAINED BY THE SITE OPERATOR TO ENSURE THAT OFF SITE SURFACE WATER QUALITY REMAINS CONSISTENT WITH STATE AND LOCAL REGULATIONS. ITHE OPERATOR IS THE ENTITY THAT OWNS OR OPERATES THE CONSTRUCTION ACTIVITY AND HAS AUTHORITY TO CONTROL THOSE ACTIVITIES AT THE PROJECT NECESSARY TO ENSURE COMPLIANCE.]
- 2. THE OPERATOR SHALL ENSURE THAT ADJACENT PROPERTIES ARE NOT IMPACTED BY WIND EROSION, OR EMISSIONS OF UNCONFINED PARTICULATE MATTER IN ACCORDANCE WITH RULE 62-296.320(4)(C)1, F.A.C., BY TAKING APPROPRIATE MEASURES TO STABILIZE AFFECTED AREAS.
- 3. FUEL AND OTHER PETROLEUM PRODUCT SPILLS THAT ENTER STORMWATER DRAINS OR WATERBODIES, OR FUEL AND OTHER PETROLEUM PRODUCT SPILLS THAT ARE IN EXCESS OF 25 GALLONS SHALL BE CONTAINED, CLEANED UP, AND IMMEDIATELY REPORTED TO THE TOWN OF LONGBOAT KEY. SMALLER GROUND SURFACE SPILLS SHALL BE CLEANED UP AS SOON AS PRACTICAL.
- 4. IF CONTAMINATED SOIL AND/OR GROUNDWATER IS DISCOVERED DURING DEVELOPMENT OF THE SITE, ALL ACTIVITY IN THE VICINITY OF THE CONTAMINATION SHALL IMMEDIATELY CEASE, AND THE TOWN OF LONGBOAT KEY SHALL BE CONTACTED.

ABBREV I AT I ONS :

NOTE: THE PERIOD MAY OR MAY NOT BE SHOWN IE. ASOP OR A.S.O.P.

= MITERED END SECTION

@	=	AT	M - EX	=	MATCH EXISTING
<i>ASOP</i>	=	AS SHOWN ON PLANS	MH	=	MANHOLE
ASTM	=	AMERICAN STD TESTING AND MATERIAL	MIN	=	MINIMUM
BFP	=	BACK FLOW PREVENTION DEVICE	Ν	=	NORTH
BOS I	=	BACK OF SIDEWALK INLET	No	=	NUMBER
CA	=	CERTIFICATION	NWL	=	NORMAL WATER LINE
Q.	=	CENTERLINE	NTS O/C	=	NOT TO SCALE
Ċο	=	CLEANOUT	0/C	=	ON CENTER
CONC	=	CONCRETE	PGL	=	PROFILE GRADE LINE
CoNP	=	CITY OF NORTH PORT	PREF	=	PREFERRED
CR	=	COUNTY ROAD	PROJ	=	PROJECT
CY	=	CUBIC YARD	PSI	=	POUNDS PER SQUARE INCH
(C)	=	CALCULATED	PVM′T	=	PAVEMENT
DB I	=	DITCH BOTTOM INLET	R	=	RADIUS
DEPT	=	DEPARTMENT	RCP	=	REINFORCED CONCRETE PIPE
DHW L	=	DESIGN HIGH WATER LINE	REQ'D	=	REQU I RED
DIA	=	DIAMETER	R/W	=	RIGHT OF WAY
DR	=	DESIGN RATIO	5	=	
Ε	=	EAST	SCB	=	SIGNAL CONTROL BOX
EΑ	=	EACH	SDR		SIZE DESIGN RATIO
ERIK	=	EMBEDDED RING INFILTRATION KIT			
ESM'T	=	EASEMENT	SHLDR		SHOULDER
EL	=	ELEVATION	SHWT		
FF	=	FINISHED FLOOR	SR	=	
FDC	=	FIRE DEPARTMENT CONNECTION	STD	=	
FDOT	=	FLORIDA DEPARTMENT OF TRANS	SQ YD	=	
FL	=	FLOW LINE	5/W	=	
FLA	=	FLORIDA	TEMP	=	
FS	=	FIRE SERVICE	TCB	=	
FT	=	FOOT/FEET	TK	=	THICK
FW	=	FIRE MAIN	TRANS	=	TRANSPORTATION
GA	=	GAUGE	TRNS	=	
GB	=	GRADE BREAK	TRVL	=	
HORIZ	=	HORIZONTAL	TW	=	TAIL WATER
HP	=	HIGH POINT	TYP	=	TYPICAL
I N	=	INCHES	UNK	=	UNKNOWN
INSTAL	=	INSTALLATION	W	=	WEST
INV	=	INVERT	W /	=	WITH
LB	=	LAND SURVEYING BUSINESS	WM	=	WATER MAIN
LIC	=	LICENSE	WW <i>F</i>	=	WELDED WIRE FABRIC
L F	_ =	LINEAR FOOT	VAR	_	VARIES
M	_ =	METER	VERT	_	VERTICAL
MAX	_ =	MAX I MUM	V LIVI	_	VERTICAL
MAY	_	MANTMON			

JOHN K PARI, P.E., STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 56368. THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JOHN K. PARI, PE ON THE DATE SPECIFIED HERE ON USING AN SHA AUTHENTICATION CODE; PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES. [RULE 62-330.301(4), F.A.C.; SECTION 2.2, ERP APPLICANT'S HANDBOOK VOL. II (AHVII)].

NOTED @ 22"x34" DESIGNED BY: J. PAR. DRAWN BY R. STEEL

CHECKED BY:

ENGINEERS SURVEYORS CA No: 3943

DMK ASSOCIATES, INC. 421 COMMERCIAL CT, SUITE C VENICE, FL. 34292 PHONE: 941-412-1293 FAX: 941-412-1043 EOR: JOHN K. PARI, P.E. ASSOCIATES EOR: P.E. No. 56368

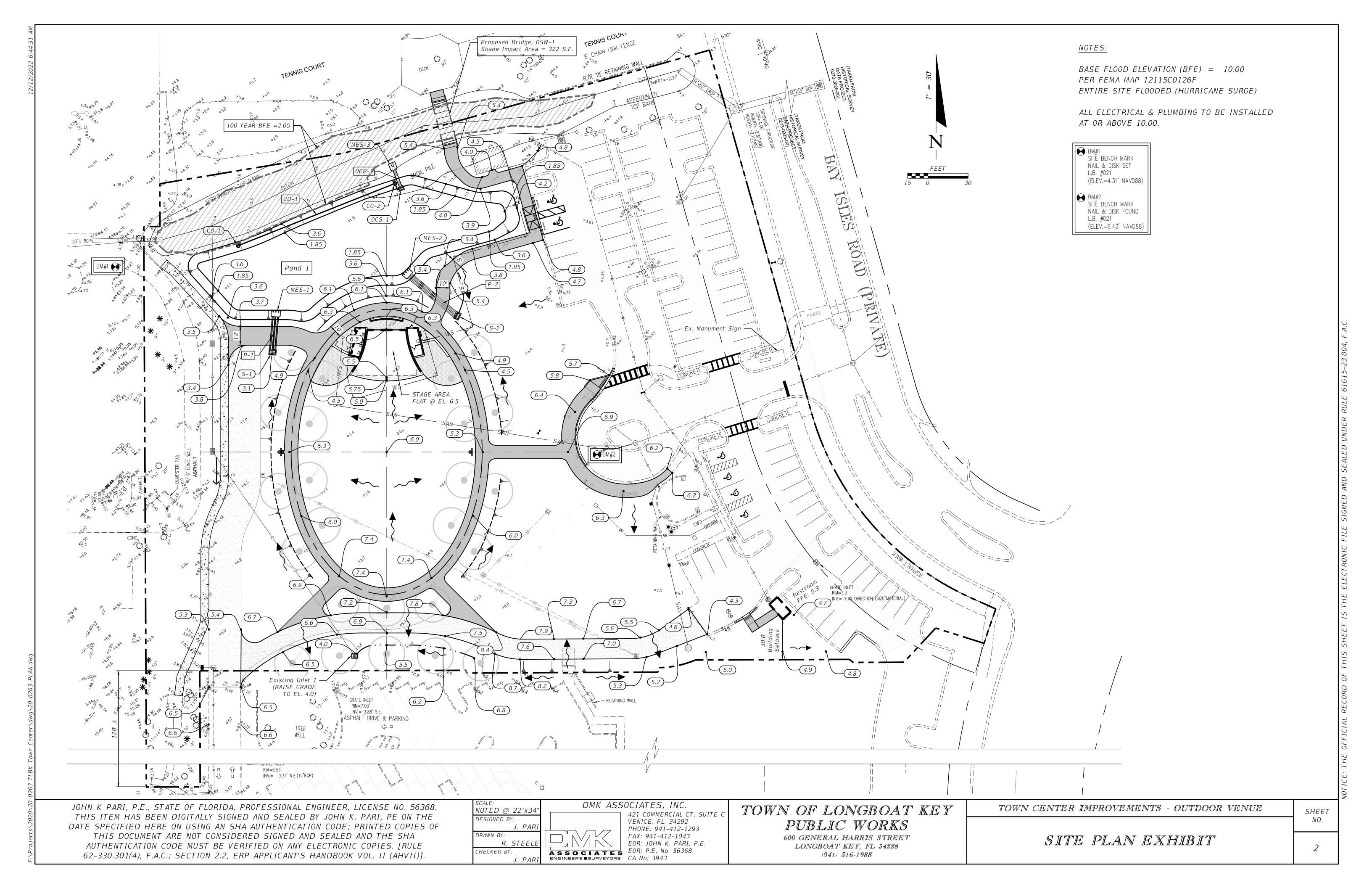
TOWN OF LONGBOAT KEY PUBLIC WORKS

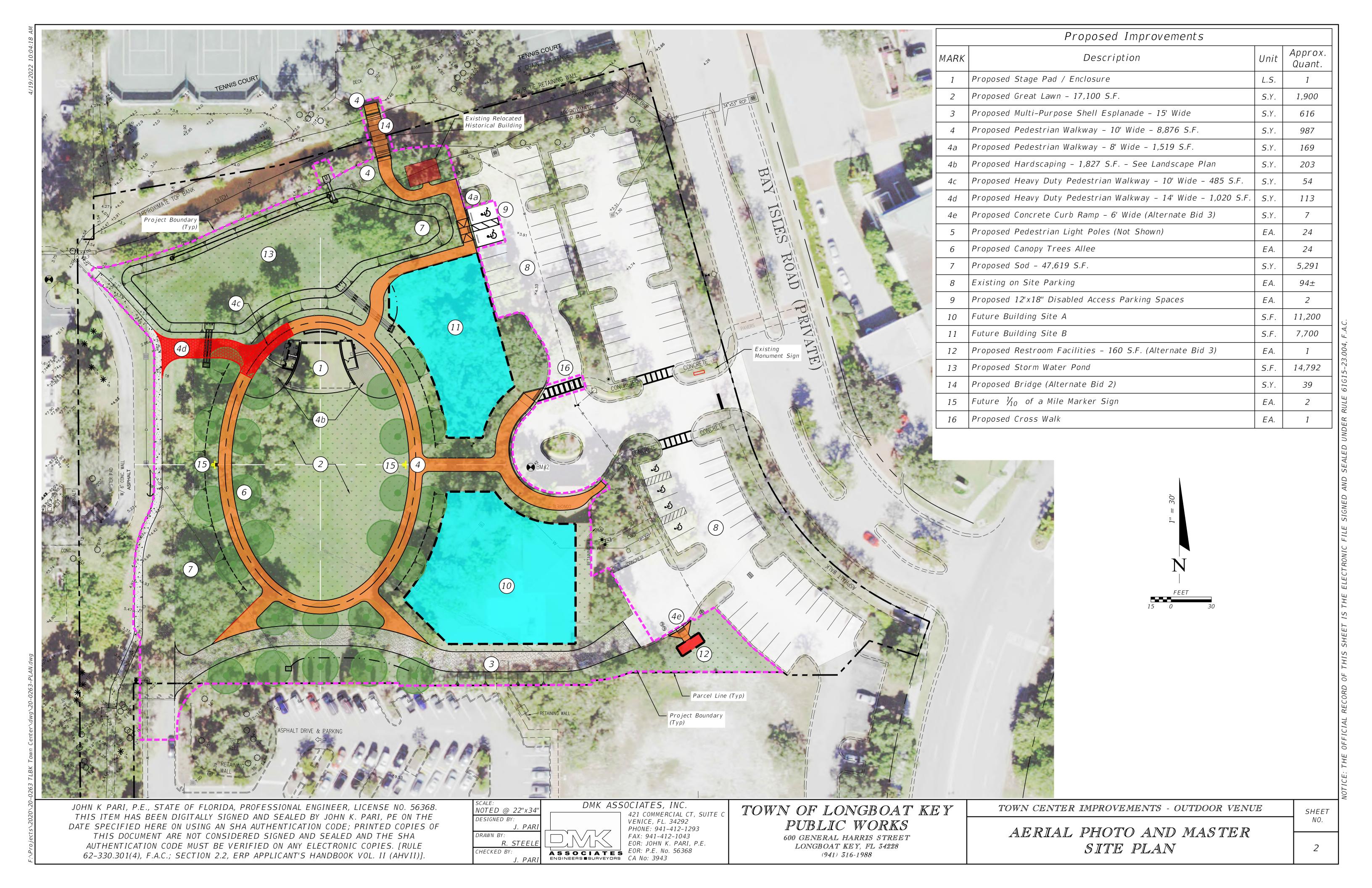
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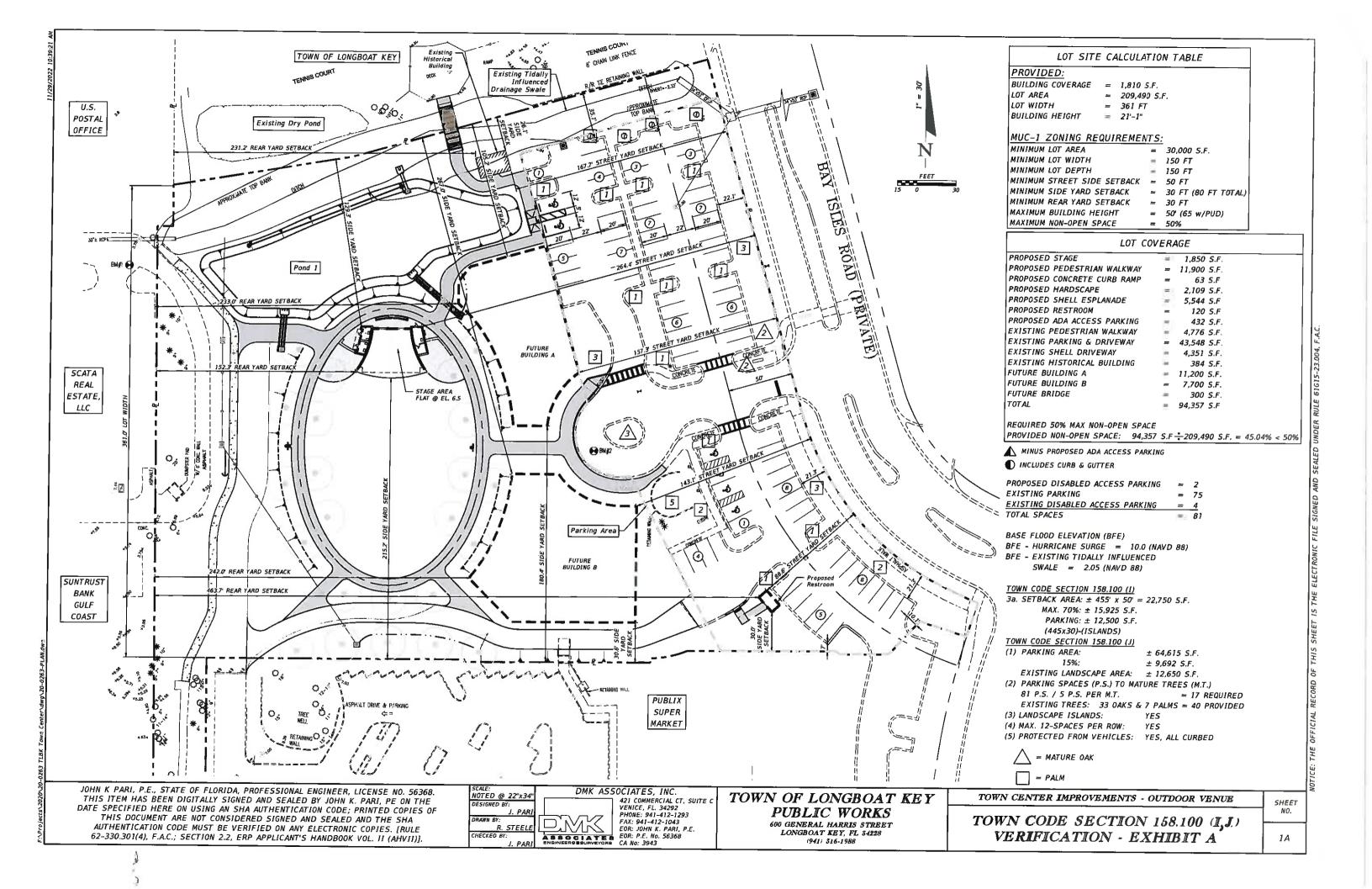
GENERAL NOTES AND ABBREVIATIONS

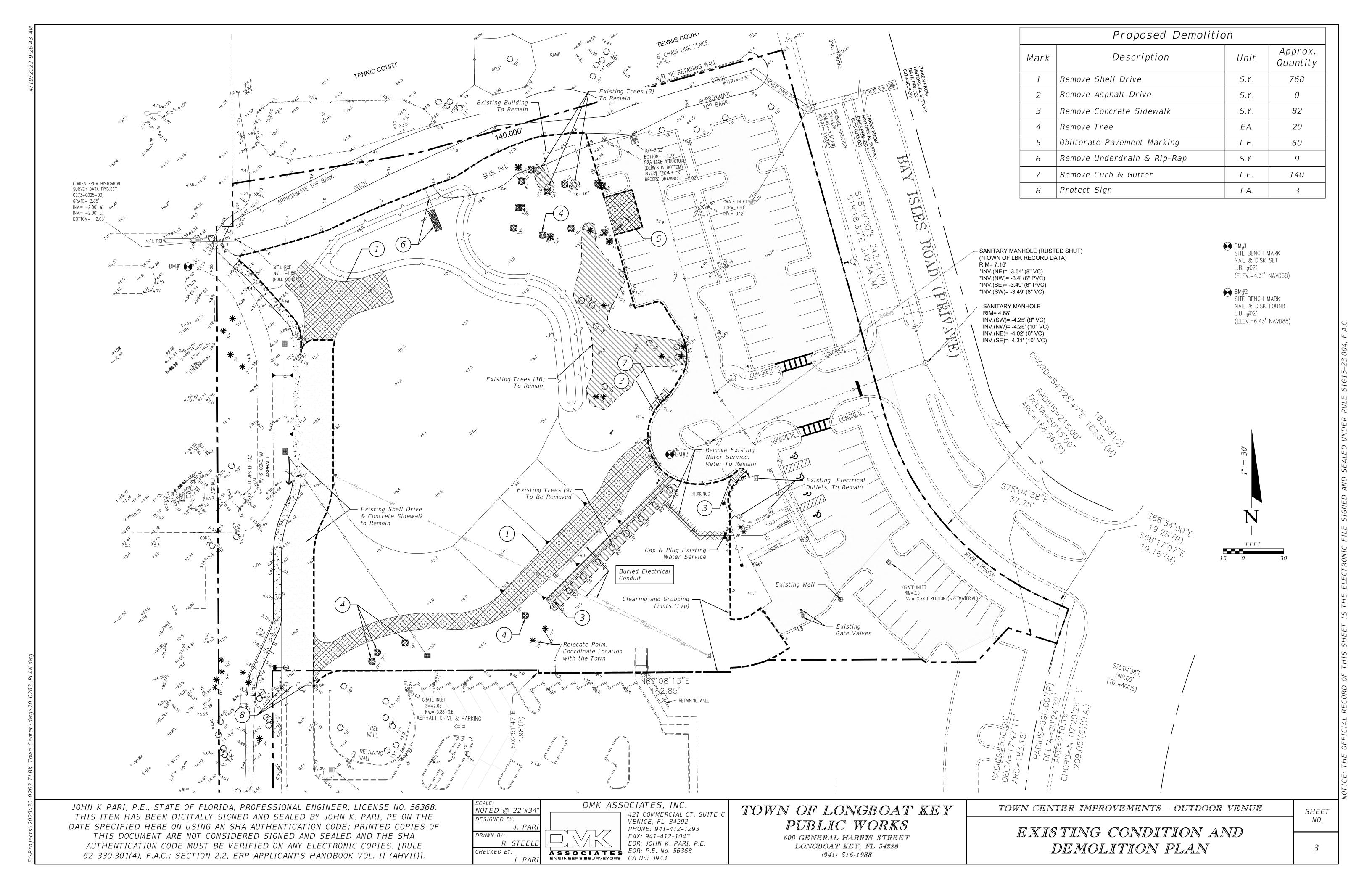
TOWN CENTER IMPROVEMENTS - OUTDOOR VENUE

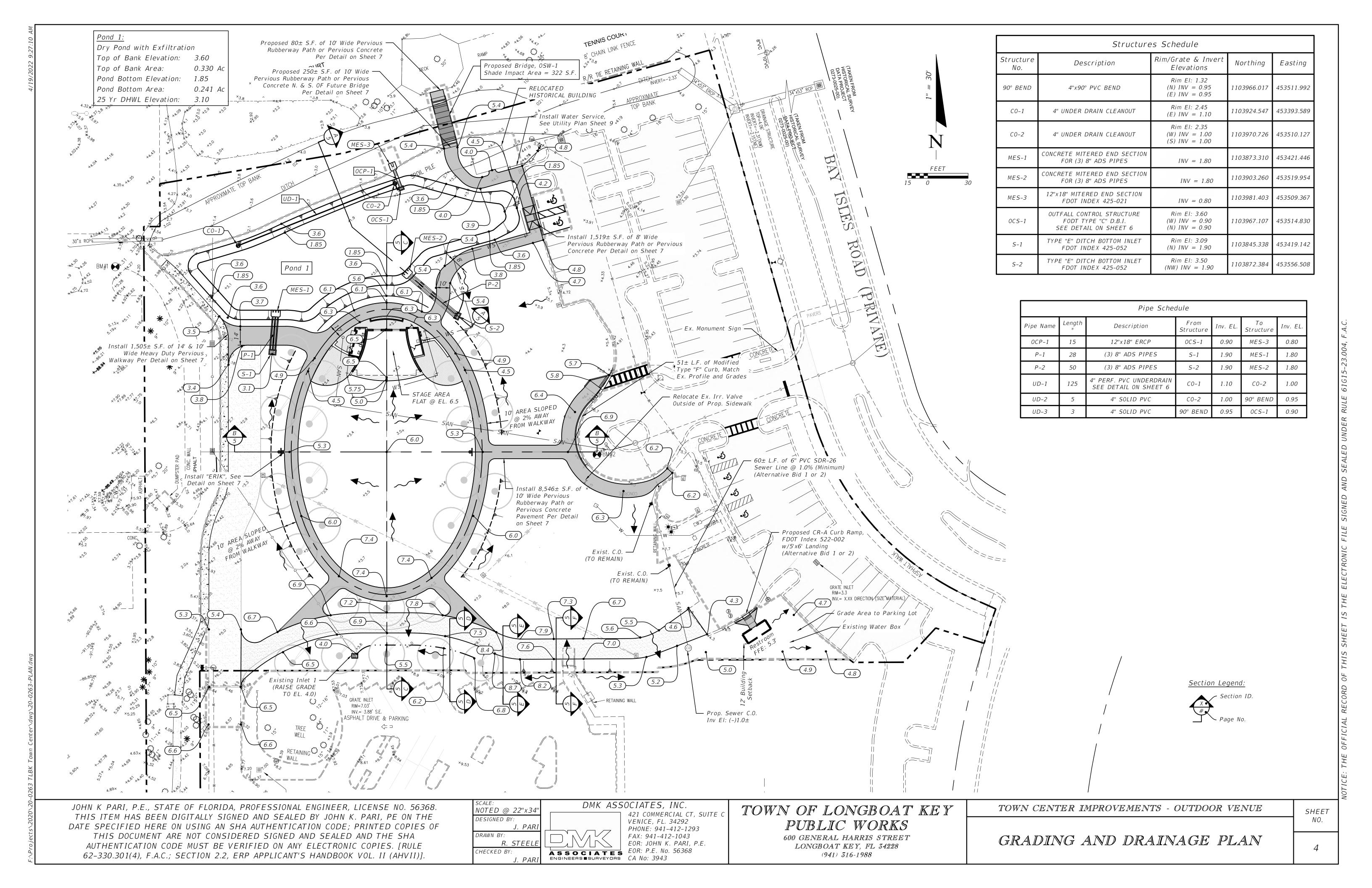
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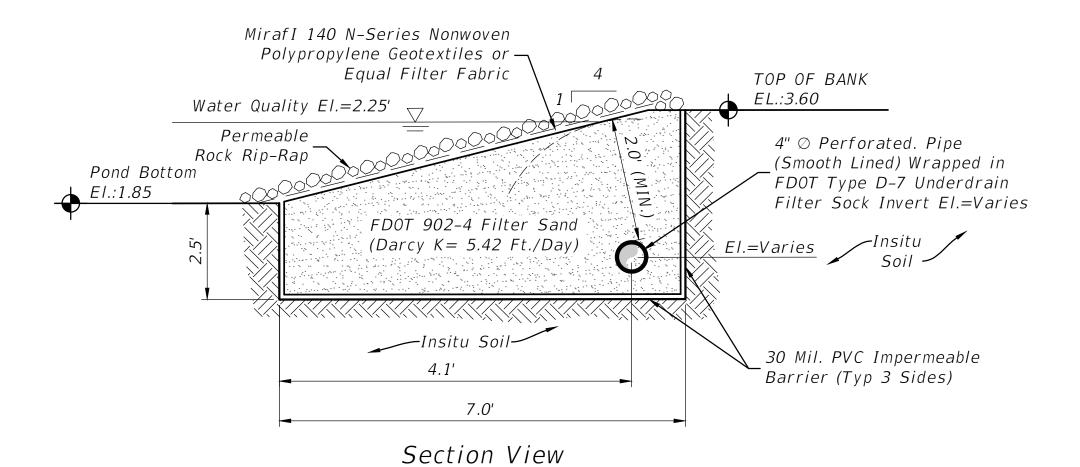










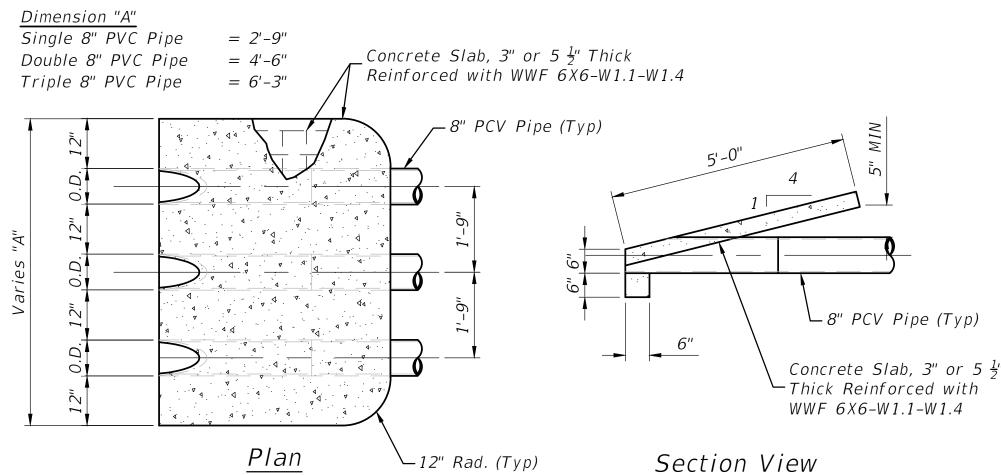


Underdrain detail

Filter Sand Specs

Shall be Quarts Sand Meeting FDOT Spec. Section 902-4

- Aggregate shall be reasonably free of
- organic material and other deleterious Material.
- Gradation of 902-2.1 shall apply except no More than 2% shall pass the No. 200 Sieve



8" CONCRETE MITERED END SECTION DETAIL

DESIGNED BY: DRAWN BY: CHECKED BY:

NOTED @ 22"x34" J. PARI R. STEELI

DMK ASSOCIATES, INC. 421 COMMERCIAL CT, SUITE C VENICE, FL. 34292 PHONE: 941-412-1293 FAX: 941-412-1043 EOR: JOHN K. PARI, P.E. ASSOCIATES EOR: P.E. No. 56368 CA No: 3943

TOWN OF LONGBOAT KEY

600 GENERAL HARRIS STREET LONGBOAT KEY, FL 34228 (941) 316-1988

TOWN CENTER IMPROVEMENTS - OUTDOOR VENUE

 $\frac{1}{4}$ " Fiberglass Skimmer $\lceil w \rceil$ (2) Min. $\frac{3}{16}$ Galv. Steel Bolts & Neoprene Gasket

#57 Stone

4.0'

Pond Sump

1.0' 1.0' 2.0'

w/ Mirafi M40

Grate/Skimmer

10" (H) x 24" (W)

Skimmer Bottom

Bottom of Pond

Top El.:3.60

₩eir El.:2.25

El.:1.90

- 2:1± (TYP)

#57 Stone

Bottom of Pond Sump El.: 1.10

 $\frac{1}{4}$ " Fiberglass Skimmer

Bolts & Neoprene Gasket

_Bottom of Pond

El.: 1.85

_Type "C" Catch Basin,

Bottom of Pond

 $2:1 \pm (TYP)$

Sump El.:1.10

FDOT Index 425-052

w/ Mirafi M40

El.: 1.85

12"X18"

ERCP

Type "C" Catch Basin, FD0T Index 425-052

4" Underdrain-

1⁄4" Fiberglass Skimmer

w/(2) Min. $\frac{3}{16}$ " Galv. Steel \neg Bolts & Neoprene Gasket

Type "C" Catch Basin,

FD0T Index 425-052

TOP OF BANK

EL.:3.60

12"X18" ERCP

Grate/Skimmer

10" (H) x 24" (W)

Skimmer Bottom

4" Underdrain

Inv El.: 0.90

12"x18" ERCP

Sump El.: 0.00 -

Inv El.: 0.90

Top E1.:3.60

→ Weir El.:2.25

EI.:1.90

Inv El.: 0.90-

4" Underdrain

Inv El.: 0.90

Sump El.: 0.00—

Section A-A

3.7'

SKIMMER

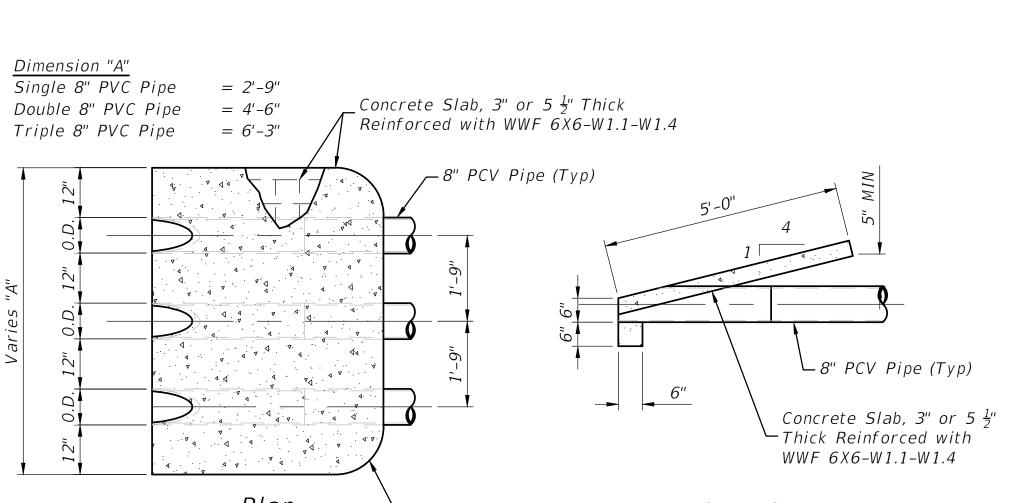
3.0'

Plan

DRAINAGE DETAILS

SHEET

6



0CS-1 CONTROL STRUCTURE TYPE "C" DBI

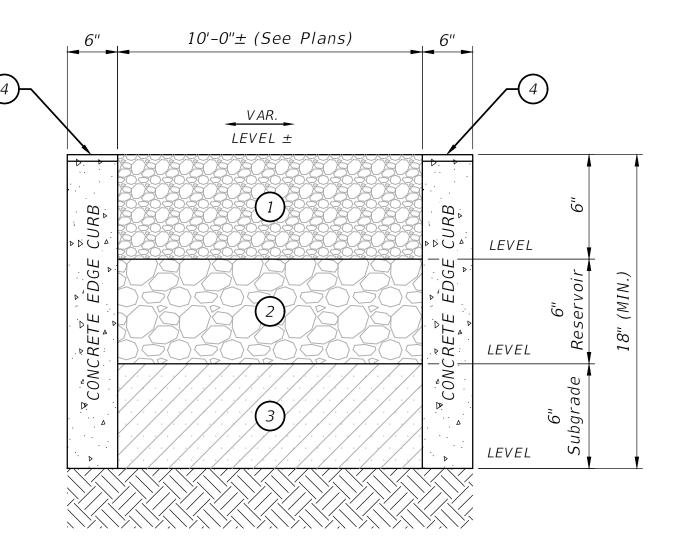
2.5'

Pond Sump

Elevation View B-B

2.0'

PUBLIC WORKS



Section

6" Thick Pervious Concrete Pavement, See Note Below

6" #57 Stone

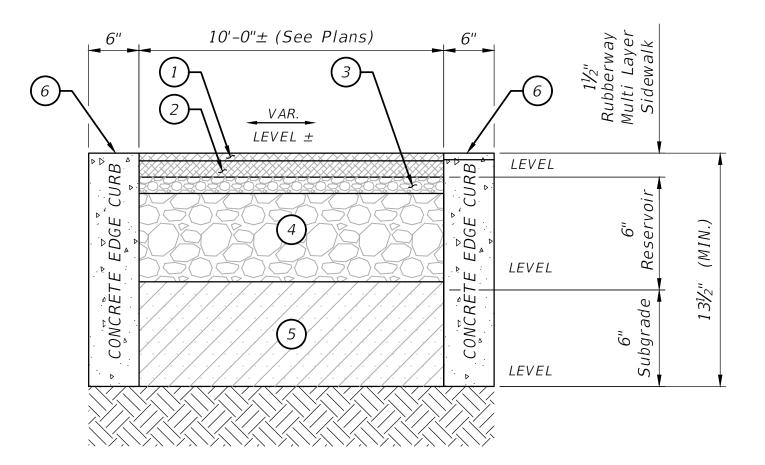
6" Subgrade, 92% Modified Proctor Density (ASTM D-1557)

 $\frac{1}{2}$ " Shell Broadcast & Floated into Surface of Concrete with Aggregate Sealer 888 (See Technical Specifications)

= 8" Thick For Heavy Duty Pavement

1" ASTM #8 & 5" ASTM #57 STONE AGGREGATE INFILL CRITERIA: CRUSHED STONE WITH 90% FRACTURED FACES, LA ABRASION < 40 PER ASTM C131, MINIMUM CBR OF 80% PER ASTM D 1883.

BASE BID PERVIOUS CONCRETE PAVEMENT N.T.S.



Section

 $\frac{1}{2}$ " Wear Layer, Synthetic Virgin Rubber

1" Base Layer, Rubber & Rock

1" #8 Stone, See Note Below

5" #57 Stone, See Note Below

6" Subgrade, 92% Modified Proctor Density (ASTM D-1557)

1/2" Shell Broadcast & Floated into Surface of Concrete with Aggregate Sealer 888 (See Technical Specifications)

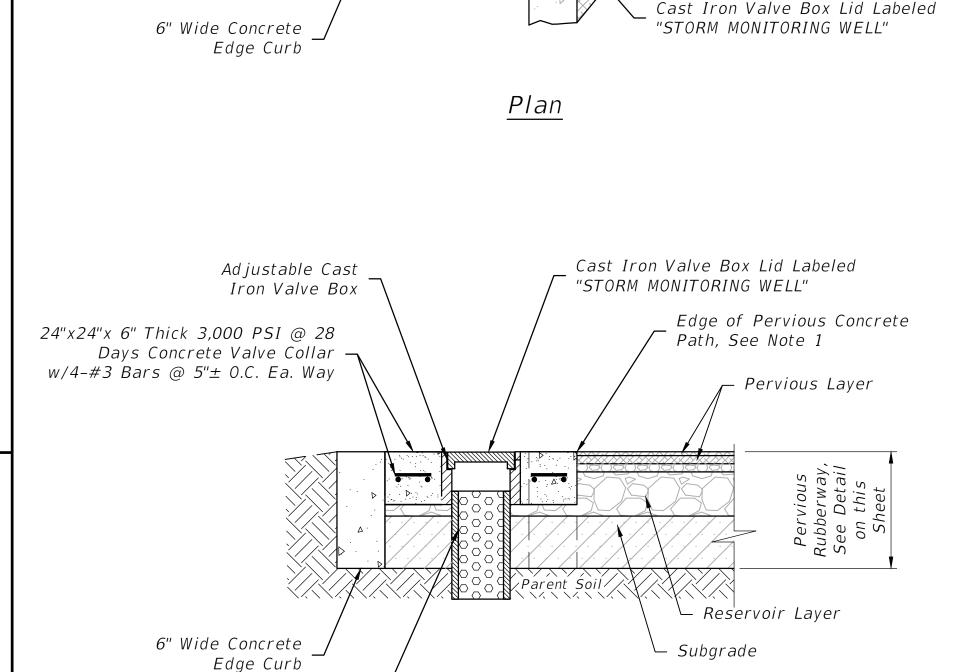
= Rubberway Manufacture, See Manufactures Details

= 7" #57 Stone For Heavy Duty Pavement

1" ASTM #8 & 5" ASTM #57 STONE AGGREGATE INFILL CRITERIA:

A. CRUSHED STONE WITH 90% FRACTURED FACES, LA ABRASION < 40 PER ASTM C131, MINIMUM CBR OF 80% PER ASTM D 1883.

ALTERNATIVE BID 1 PERVIOUS RUBBERWAY (RR6000 SYSTEM) OR APPROVED EQUAL N.T.S.



6" PVC SCH. 80

Perforated Pipe

24"

STORM

MONITORING

Sawcut and remove Pathway Concrete Edge Curb as required (24") to install ERIK and as necessary to allow a positive flow to the monitoring well port.

Section

6" Wide Concrete Edge

Edge of Pervious Concrete Path

Pathway

Valve Box

6" PVC SCH. 80 Perforated Pipe

24"x24"x 6" Thick 3,000 PSI @ 28

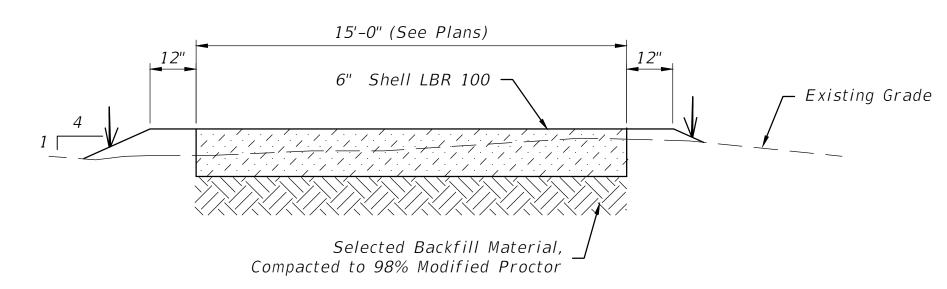
w/4-#3 Bars @ 5"± O.C. Ea. Way

Days Concrete Valve Collar

Adjustable Cast Iron

Curb, See Note 1

EMBEDDED RING INFILTROMETER KIT (ERIK) FOR PERVIOUS CONCRETE (1 REQ'D) N.T.S.



Section

SHELL ESPLANADE DRIVE DETAIL

JOHN K PARI, P.E., STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 56368. THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JOHN K. PARI, PE ON THE DATE SPECIFIED HERE ON USING AN SHA AUTHENTICATION CODE; PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES. [RULE 62-330.301(4), F.A.C.; SECTION 2.2, ERP APPLICANT'S HANDBOOK VOL. II (AHVII)].

NOTED @ 22"x34" DESIGNED BY: J. PARI DRAWN BY: R. STEELI

CHECKED BY:

DMK ASSOCIATES, INC. 421 COMMERCIAL CT, SUITE C VENICE, FL. 34292 PHONE: 941-412-1293 FAX: 941-412-1043 EOR: JOHN K. PARI, P.E. ASSOCIATES EOR: P.E. No. 56368 CA No: 3943

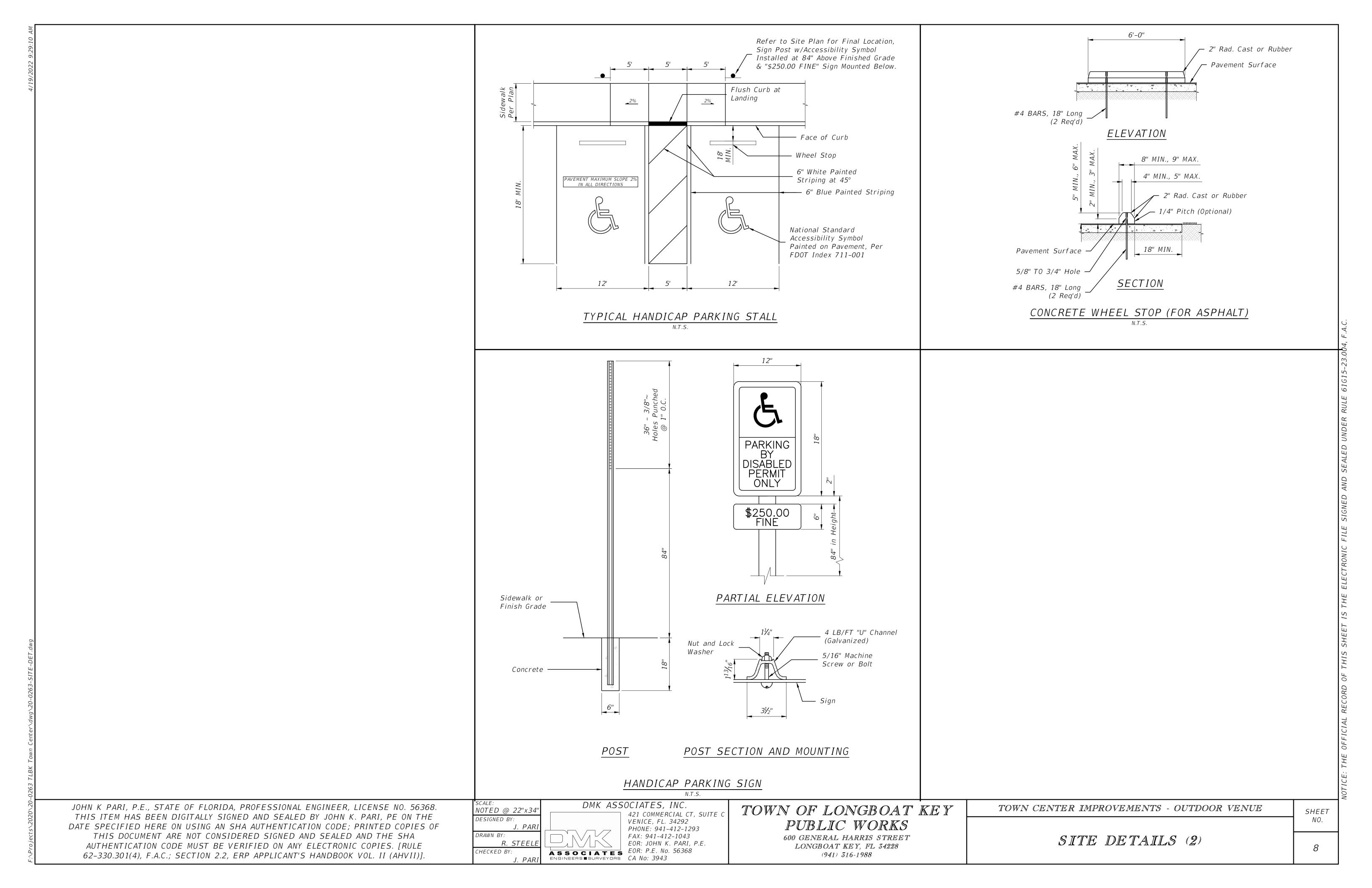
TOWN OF LONGBOAT KEY PUBLIC WORKS

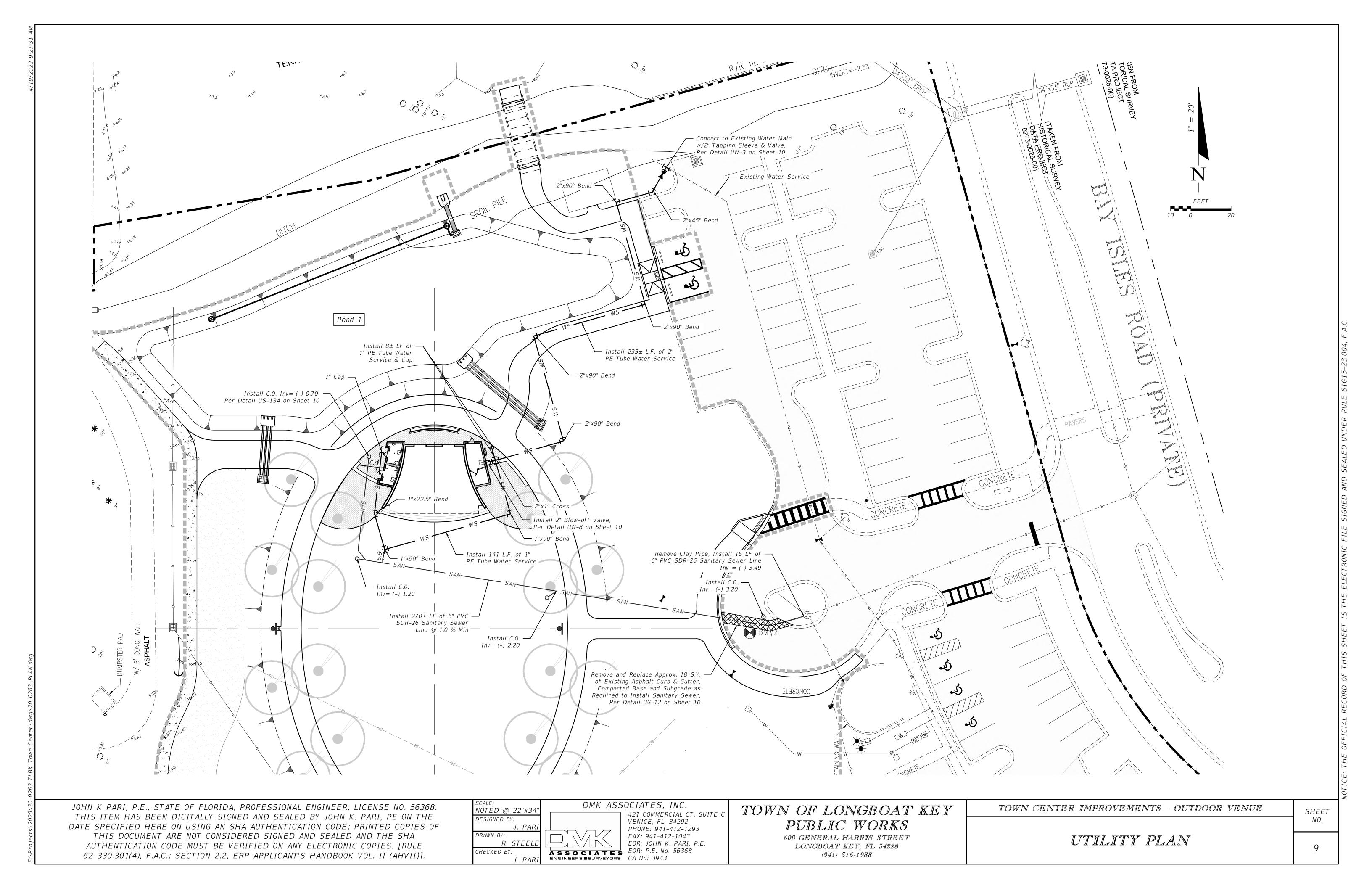
600 GENERAL HARRIS STREET LONGBOAT KEY, FL 34228 (941) 316-1988

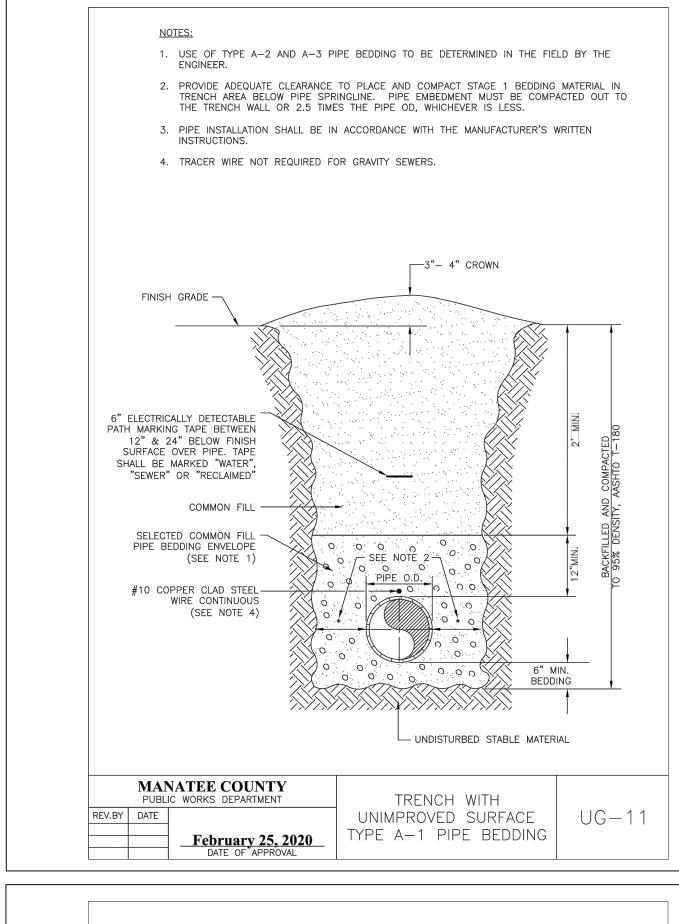
TOWN CENTER IMPROVEMENTS - OUTDOOR VENUE

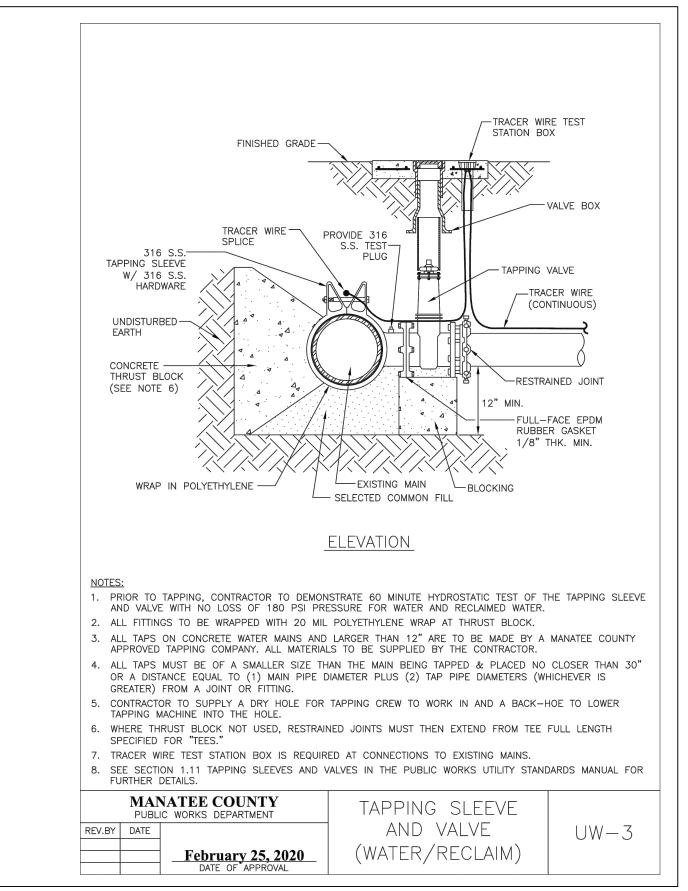
SITE DETAILS (1)

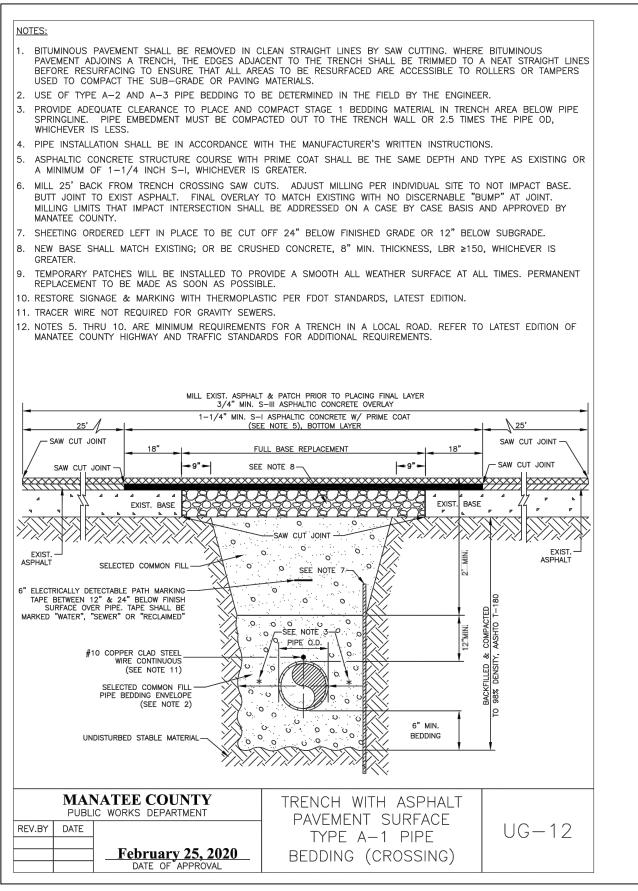
SHEET

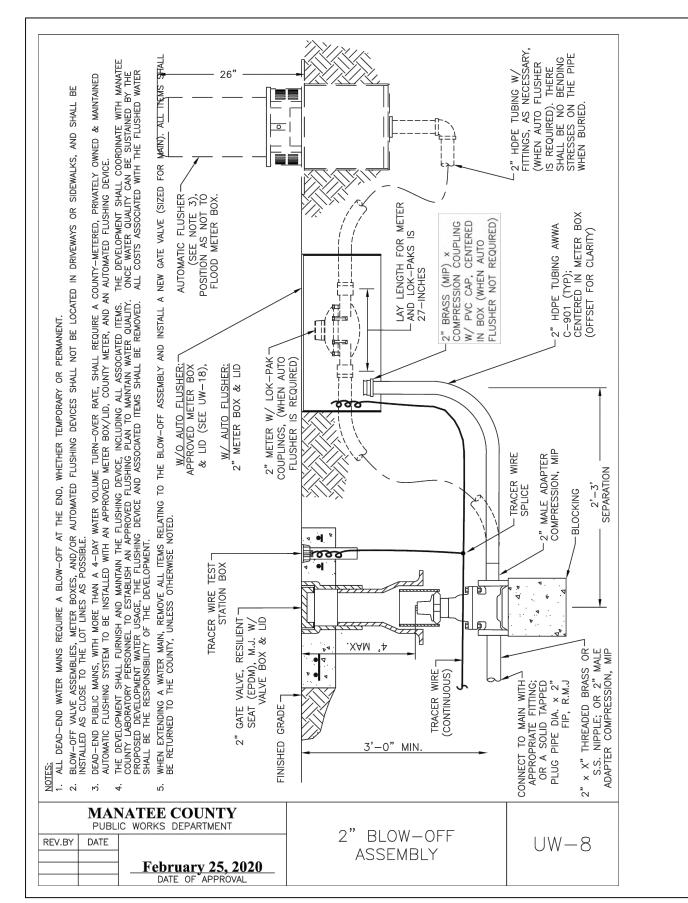


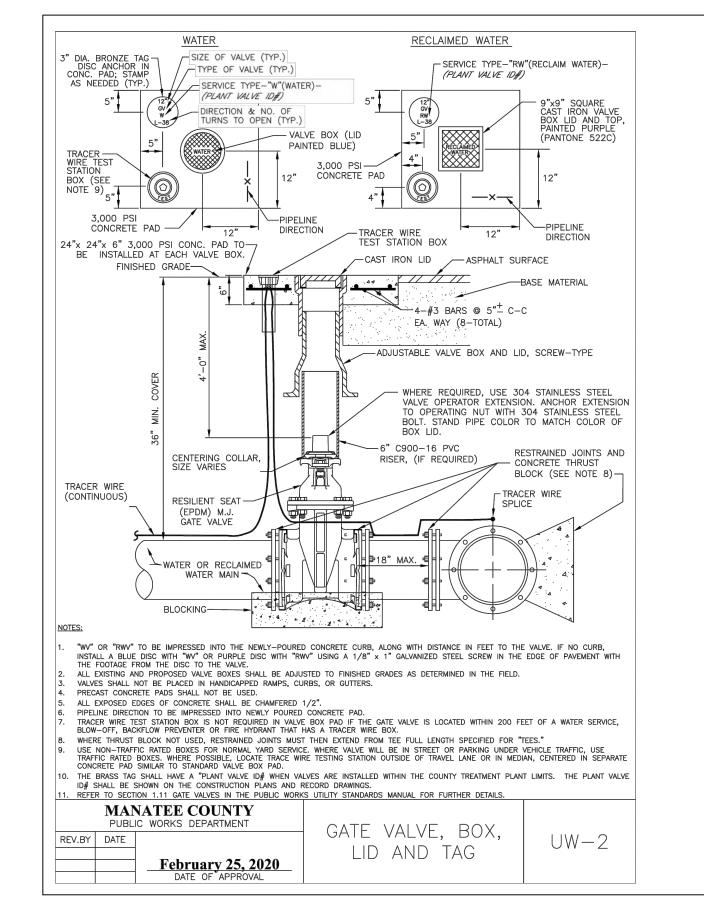


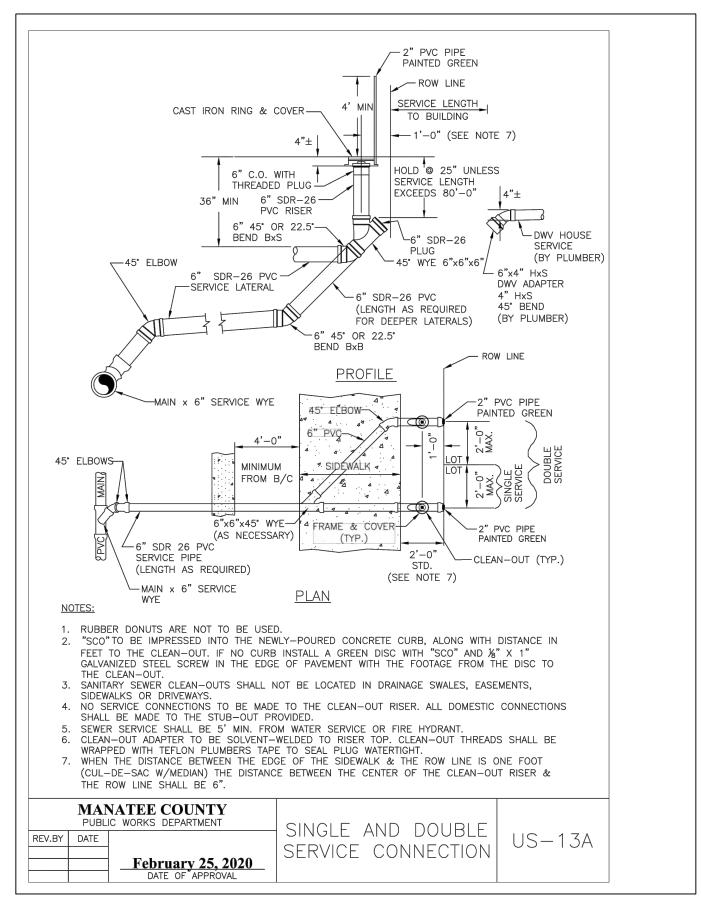


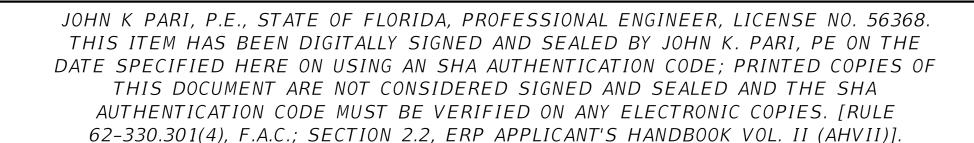














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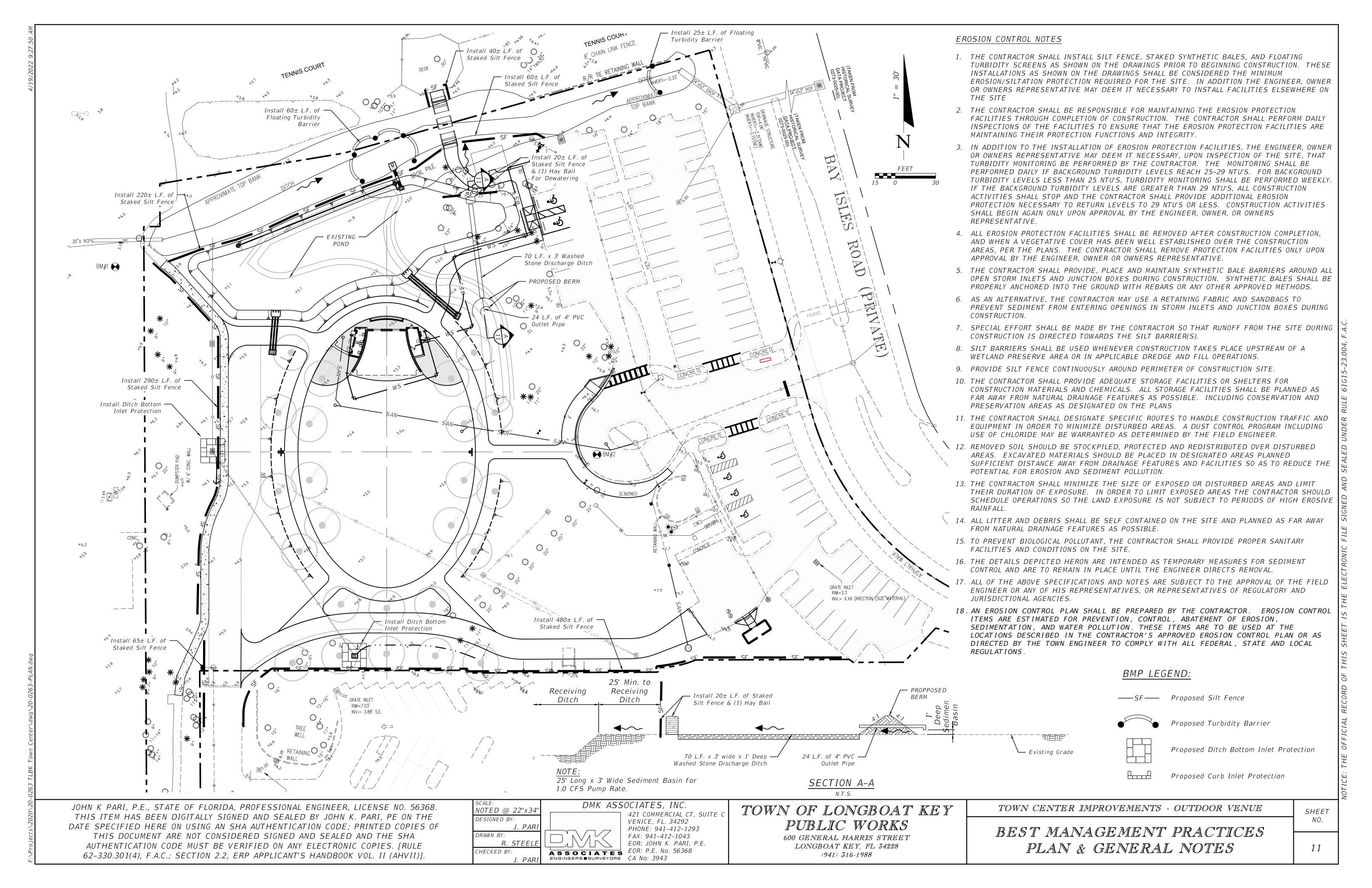
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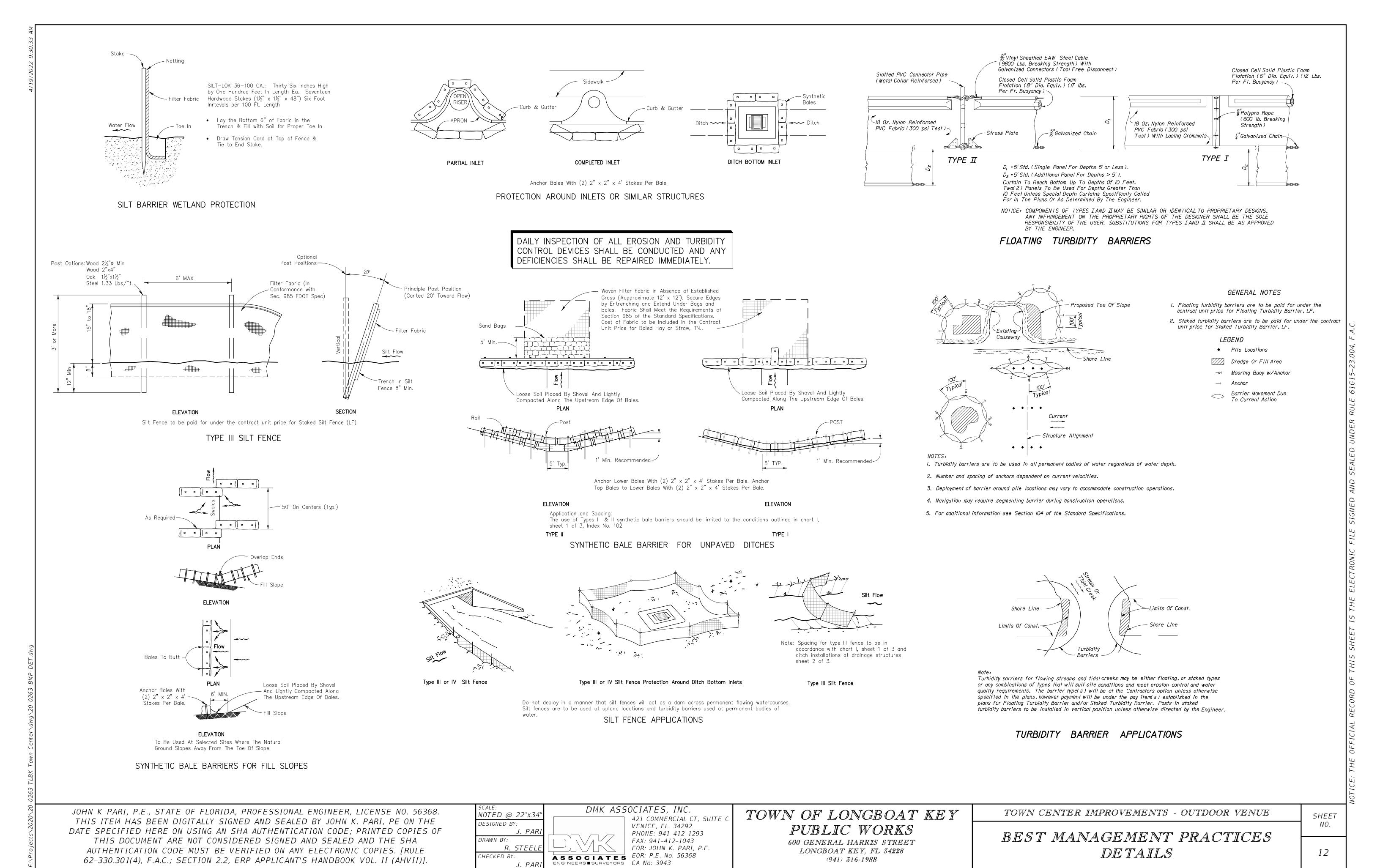
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TOWN CENTER IMPROVEMENTS - OUTDOOR VENUE

UTILITY DETAILS

SHEET





KARON FAMILY PAVILION

LONGBOAT KEY TOWN CENTER PARK 501 BAY ISLE ROAD LONGBOAT KEY, FL 34228



MEPF ENGINEER:

CRAWFORD WILLIAMS

6989 PROFESSIONAL PARKWAY EAST

ENGINEERING, INC.

SARASOTA FLORIDA, 34240

PHONE: (941) 907-0103

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STRUCTURAL

STRUCTURAL NOTES STRUCTURAL NOTES FOUNDATION & GROUND FLOOR ROOF PLAN FOUNDATION & SLAB ON GRADE DETAILS S-510 MASONRY DETAILS ROOF DETAILS

MECHANICAL

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ELECTRICAL LIGHTING PLAN ELECTRICAL POWER PLAN ELECTRICAL NOTES AND RISER

PLUMBING WATER PIPING PLAN PLUMBING SANITARY PIPING PLAN PLUMBING NOTES, SCHEDULE, AND LEGEND

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<u>LANDSCAPING</u>

UNDER SEPARATE CONTRACT

UNDER SEPARATE CONTRACT

T | 9 4 1 . 3 6 6 . 6 0 6 6 F | 9 4 1 . 3 6 6 . 7 4 5 4 w w w hoytarchitects c o m

TOWN OF LONGBOAT KEY 501 BAY ISLES ROAD LONGBOAT KEY, FL 34228

GENERAL CONTRACTOR: JOHN F. SWIFT 2221 8TH STREET SARASOTA, FL 34237 PHONE: (941) 951-6100

CIVIL ENGINEER: DMK ASSOCIATES

421 COMMERCIAL COURT, SUITE C-D VENICE, FL 34292 PHONE: 941.412.1293

LANDSCAPE ARCHITECT: <u>DWJA LANDSCAPE ARCHITECT</u> 630 S. ORANGE AVE, SUITE 202 SARASOTA, FL 34236 PHONE: 941.366.3159

STRUCTURAL ENGINEER: **BNI ENGINEERS** 2202 N. WESTSHORE BLVD, SUITE 200 TAMPA, FL 33607

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CRAWFORD WILLIAMS ENGINEERING, INC.
6989 PROFESSIONAL PARKWAY EAST SARASOTA FL 34240

THESE DOCUMENTS, INCLUDING ALL SPECIFICATIONS, SKETCHES, AND EXHIBITS , ARE COLLECTIVELY INTENDED TO SHOW THE GENERAL DESCRIPTION, QUANTITIES, ARRANGEMENTS, SIZES, DIMENSIONS, AND RELATIONSHIPS OF THE VARIOUS SYSTEMS AND THE INDIVIDUAL BUILDING MATERIALS AND COMPONENTS AS REQUIRED TO MEET THE DESIGN INTENT, AND THEREFORE THE CONTRACTUAL REQUIREMENTS OF THE PROJECT. THE GENERAL CONTRACTOR, AND ALL ENTITIES UNDER CONTRACTOR WHO SUBMIT BIDS TO FURNISH EITHER OR BOTH LABOR AND/OR MATERIALS FOR THIS PROJECT, SHALL THEREBY HAVE CERTIFIED THAT THEY HAVE PERFORMED A DETAILED REVIEW OF ALL ASSOCIATED CONTRACT DOCUMENTS FOR THE PROJECT, THE GENERAL CONTRACTOR AND SUB-CONTRACTORS AVE INCLUDED ALL COSTS AND TIME ASSOCIATED WITH, AND REQUIRED FOR, THE SUCCESSFUL ON-TIME AND WITHIN-COST COMPLETION OF THE PROJECT. SHOULD A COMPONENT STANDARD OR QUANTITY BE IN QUESTION, THE MORE STRINGENT OR HIGHER QUALITY/ QUANTITY SHALL BE PROVIDED, AS PER THE AGREEMENT BETWEEN THE OWNER AND THE GENERAL CONTRACTOR.

Karon ongboat | 501

BUILDING COMMENTS & 11-02-2022
GENERAL REVISION

Rev. No. Description of Revision Date

Gary B. Hoyt AIA AR 0008999

COVER SHEET

Date Project No. Sheet 8-25-2022 Office File Location S:/PROJECTS/2020/

PROJECT: OWNER / DESIGN PROFESSIONALS

OWNER:

TOWN OF LONGBOAT KEY

501 BAY ISLES ROAD LONGBOAT KEY, FLORIDA 34228

GENERAL CONTRACTOR

JOHN F. SWIFT **2221 8TH STREET** SARASOTA, FL 34237 PHONE: (941) 951-6100

ARCHITECT:

HOYT ARCHITECTS 1527 2ND STREET SARASOTA, FLORIDA, 34236

PHONE: (941) 366-6066

CIVIL ENGINEER:

DMK ASSOCIATES

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BNI ENGINEERS

2202 N. WESTSHORE BLVD., SUITE 200 TAMPA, FLORIDA, 33607 PHONE: (813) 568-1818

SITE LOCATION MAP



STRUCTURAL ENGINEER:

31 30 29	28 27 26	25 24 23 MINIMUM CORRIDOR WIDTH (FBC T	22 21 20 19 [.1018.1)	18 17 PORTABLE FIRE EX		15 14 \ 10\	13 12		7 6 5	4 3
BUILDING CODE SUMMAR	RY	OCCUPANCY	MINIMUM WIDTH	SECT. 5.2 - CLASS A EXTINO	GUISHER	. 10 <i>j</i>				
	<u> </u>	ANY FACILITIES NOT LISTED ON T.1018.1	44 INCHES	SECT. 5.4.1 LIGHT (LOW) I	HAZARD EA IN SQUARE FEET TO BE PRO	FECTED PER EXTINGUISHER				
PROJECT NAME: KARON FAMILY PAVILION LONGBOAT KEY TOWN CENTER	R PARK	W/ A REQD. OCC. CAPACITY LESS THAN 50	36 INCHES							
501 BAY ISLE ROAD - LONGBOA PROPOSED USE: A COVERED PERFORMANCE PL	AT KEY, FLORIDA 34228 PLATFORM WITH ATTACHED MALE AND FEMALE	WITHIN A DWELLING UNIT DEAD ENDS (FBC 1018.4)	36 INCHES	CLASS A RATING	LIGHT HAZARD OCCUPANCY	ORDINARY HAZARD OCCUPANCY	EXTRA HAZARD OCCUPANCY			
RESTROOMS AND STORAGE RO		,								
GOVERNING CODES		OCCUPANCY	MAXIMUM PERMITTED DEAD END DISTANCE	1-A 2-A		2,000				
THE 2020 FLORIDA BUILDING CODE THE 2020 FLORIDA FIRE PREVENTION CODE (FFPC)		A	NA	2-A 3-A	6,000 9,000	3,000 4,500				
THE 2020 FLORIDA FIRE PREVENTION CODE (FFPC) THE 2018 NFPA 101 LIFE SAFETY CODE W/ FLORIDA AMENDMENT	ITS	EGRESS BALCONIES (FBC 1019)		4-A	11,250	6,000	4,000			
THE 2018 NFPA 1 UNIFORM FIRE CODE W/ FLORIDA AMENDMENT THE 2020 FLORIDA BUILDING CODE, MECHANICAL	TS	LONG SIDE OF AN EGRESS BALCONY SHALL BE A' LEAST 50% OPEN	T NA	6-A	11,250	9,000	6,000			
THE 2020 FLORIDA BUILDING CODE, PLUMBING				10-A	11,250	11,250	10,000			
THE 2017 NATIONAL ELECTRICAL CODE, NFPA 70) THE 2020 FLORIDA BUILDING CODE, ACCESSIBILITY		FIRE PROTECTION CONCEPTS SYSTEM REQUIRED	PROVIDED	20-A	11,250	11,250	11,250			
THE 2020 FEORIDA BOILDING GODE, AGGLOGISIETT		AUTOMATIC SPRINKLER NO	N/A	30-A	11,250	11,250	11,250			
		SYSTEM		40 - A	11,250	11,250	11,250			
JSE GROUPS:		STANDPIPE SYSTEM NO	N/A	PORTABLE FIRE EX		S A FIRE HAZARDS (FE ORDINARY HAZARD	BC T.906.3) EXTRA HAZARD			
2017 FBC	2017 FFPC	SMOKE DETECTION NO SYSTEM	PROVIDED IN THE FOLLOWING LOCATIONS: - IN EACH ELEV. LOBBY, ELEV. SHAFT & ELEV.		LIGHT HAZARD OCCUPANCY	OCCUPANCY OCCUPANCY	OCCUPANCY			
<u>A-5, ASSEMBLY (303.6)</u>	ASSEMBLY (FFPC 1-6.1.2.1.)		MACHINE RMWITHIN PROXIMITY OF EGRESS DOORS - ABOVE THE FIRE ALARM SYSTEM CONTROL PANEL - IN RETURN AIR DUCTS OR PLENUMS OF AIR	MIN. RATED SINGLE EXTINGUISHER	2-A 1	2-A	4-A ²			
			HANDLING SYSTEM WITH A DESIGN CAPACITY GREATER THAN 2,000 CFM	MAX. FLOOR AREA	3,000 SQ.FT.	1,500 SQ.FT.	1,000 SQ.FT.			
	TYPE II-B (UNPROTECTED NON-COMBUSTIBLE)		- AT EACH STORY OF RETURN RISERS SERVING 2 OR MORE STORIES IN SYSTEM WITH A DESIGN	PER UNIT OF A						
SERC T 504 32 8 504 4)	MAIN USE GROUP: A-5 SINGLE STORY, NON-SPRINKLERED UL = UNLIMITED RD = ROOF DECK SF = SQUARE FEET		CAPACITY GREATER THAN 15,000 CFM. A SINGLE OR MULTIPLES STATION SMOKE ALARM WILL BE INSTALLED IN FF AREAS WITHIN THE RESIDENCE: - ON THE CEILING OUTSIDE EACH SLEEPING AREA	MAX. FLOOR ARE A FOR EXTINGUISHER	11,250 SQ.FT.	11,250 SQ.FT.	11,250 SQ.FT.			
HEICHT (EEET/GTODIEG)	ALLOWABLE PROPOSED 55'/ LIL STORIES +/- 28' / 1 STORIES	FIRE ALARM SYSTEM NO	VISIBLE/AUDIBLE ALARM IN ACCORDANCE WITH NFPA 72.	MAX. TRAVEL DISTANCE TO EXTINGUISHER	75 FT	75 FT	75 FT			
HEIGHT (FEET/STORIES) ALLOWABLE AREA (FBC T.506.2)	55' / UL STORIES +/- 28' / 1 STORIES UL SF 1848 S.F.	ELEVATOR LOBBIES N/A	VISIBLE/AUDIBLE ALARM IN ACCORDANCE WITH NFPA 72. ELEVATORS FROM THE CORRIDOR WITH A 1-HOUR FIRE	NOTE:						
	.5.0 5.11	IV/A	RATED BARRIER. THE LOBBY WILL BE FURTHER PROTECTED BY 3/4 HOUR RATED OPENING PROTECTIVES.	ONE 2-A RATED EXTINGUISH	HER FOR LIGHT (LOW) HAZARD (
MEANS OF EGRESS				2. IWO 2-1/2 GALLON WATER- EQUIVALENT OF ONE 4-A R.	I YPE EX [INGUISHERS EACH WI ATED EXTINGUISHER.	ΓΗ A 1-A RATING SHALL BE DEEME	U IHE			
OCCUPANT LOAD FACTORS (FBC T.1004.5) USE	OCCUPANT LOAD FACTOR SF/OCC	EGRESS LIGHTING N/A	EGRESS LIGHTING WILL BE PROVIDED THROUGHOUT THE							
PLATFORM	15 NET	AND EXIT SIGNAGE	COMMON PORTIONS OF THE BUILDING'S MEANS OF EGRESS. ON THE PARKING LEVELS, EGRESS LIGHTING WILL BE PROVIDED THROUGHOUT THE COMMON AREAS							
	I⊃ IN⊏ I		LEADING TO THE EXITS, WITHIN THE EXITS, AND AT THE EXIT DISCHARGE AREAS. AS PERMITTED BY CODE,							
ACCESSORY STORAGE AREAS AND MECHANICAL EQUIPMENT ROOMS	300 GROSS		EMERGENCY LIGHTING AND EXIT SIGNS WILL NOT BE PROVIDED IN INDIVIDUAL DWELLING UNITS.							
		PORTABLE FIRE YES EXTINGUISHERS	PORTABLE FIRE EXTINGUISHERS OF THE APPROPRIATE TYPE WILL BE LOCATED THROUGHOUT THE PROJECT							
OCCUPANT LOAD CALCULATIONS		LATINOUISITICIO	WHERE REQUIRED IN ACCORDANCE WITH THE REQUIRED IN ACCORDANCE WITH THE REQUIREMENTS OF THE							
PLATFORM - 1248 S.F. / 15 NET = 84 OCCUPANTS STORAGE / ELECTRICAL - 167 S.F. / 300 GROSS = 1OCCUPAN	INTS		FIRE CODE AND NFPA STANDARDS FOR PORTABLE FIRE EXTINGUISHERS							
TOTAL BUILDING OCCUPANCY LOAD	85	FIRE RESISTANCE RATING FOR BUIL	DING ELEMENTS (FBC T.601)							
		BUILDING ELEMENT	TYPE II-B FIRE RESISTANCE RATING (IN HOURS)							
		PRIMARY STRUCTURAL FRAME ¹	0 HOUR 0 HOUR							
		EXTERIOR BEARING WALLS								
MEANS OF ECDESS SIZING (FDC 4045)										
MEANS OF EGRESS SIZING (FBC 1015) EGRESS COMPONENT	EGRESS CAPACITY FACTOR	INTERIOR BEARING WALLS	0 HOUR							
STAIRWAYS	0.3 INCHES PER PERSON	INTERIOR NON-BEARING WALLS AND PARTITIONS	0 HOUR							
STAIRWAYS OTHER THAN GROUP H & I-2		FLOOR CONSTRUCTION	0 HOUR							
OCCUPANCIES EQUIPPED W/ AUTOMATIC SPRINKLER SYSTEM & ANNUNCIATION	0.2 INCHES PER PERSON	ROOF CONSTRUCTION 1	0 HOUR							
OTHER EGRESS COMPONENTS	0.2 INCHES PER PERSON	FIRE RESISTANCE RATING FOR EXTE								
OTHER EGRESS COMPONENTS OTHER THAN H & I-2 OCCUPANCIES EQUIPPED W/ AUTOMATIC	0.15 INCHES PER PERSON	PARTITIONS BASED ON FIRE SEPAR	· ,							
SPRINKLER SYSTEM & ANNUNCIATION OCC LOAD		FIRE SEPARATION DISTANCE = X (IN FEET, FT)	TYPE III-B FIRE RESISTANCE RATING (IN HOURS)							
LEVEL OCC. LOAD PLATFORM 85	EGRESS CAP. FACTOR EXIT CAPACITY 46 / 31	X < 5 FT	R OCCUPANCY 1							
	40731	X > 5 FT TO 9.99 FT X > 10 FT TO 29.99 FT	1 0							
	x 0.3 / 0.2	X > 30 FT	Ö							
		NOTE: 1. FOR GROUP A, B, E, & R OCCUPANCIES AND P	ARKING GARAGES, THE REQUIRED FIRE RESISTANCE RATING SHALL BE BUILDING IS PROTECTED THROUGHOUT WITH AN APPROVED AUTOMATIC							
		SPRINKLER SYSTEM IN ACCORDANCE WITH 903.3.1.1		_						
COMMON DATE OF FORESCENES (55)	C T 1006 2 4)	MAXIMUM AREA OF EXTERIOR WALL								
COMMON PATH OF EGRESS TRAVEL (FBC	C T.1006.2.1) MAX. COMMON PATH OF TRAVEL	OPENING THAN 3 THA								
OCCUPANCY W/O SPRINKLER :	SYSTEM (FT) W/ AUTOMATIC SPRINKLER	NOT	NO NO							
	SYSTEM (FT)	PROTECTED PERMITTED 15% 25%								
	5 FT NA 00 FT NA	UP, S ² NOT 15% 25%	% 45% 75% NO NOT LIMIT LIMIT							
NOTE: TRAVEL DISTANCE WITHIN THE DWELLING UNIT IS NO MEASUREMENT. THE TRAVEL DISTANCE AT INTERIOR OF DV	OT INCLUDED IN THE COMMON PATH OF TRAVEL OWELLING UNIT IS LIMITED TO 125 FT MEASURED FROM	NOTE: 1. THE MAXIMUM ALLOWABLE OPENING AREA OF UNPROPERMITTED FOR PROTECTED OPENINGS IN FULLY SE	PRINKLED BUILDINGS.							
THE MOST REMOTE POINT IN THE ROOM OR SPACE TO THE SPACES WITH ONE EXIT OR EXIT ACCESS		2. UP, S = UNPROTECTED OPENINGS IN BUILDINGS EQU SPRINKLER SYSTEM IN ACCORDANCE WITH 903.3.1.1								
OCCUPANCY	MAXIMUM OCCUPANT LOAD									
S	49	INTERIOR WALL AND CEILING FINIS	H FLAME SPREAD INDEX							
		(SPRINKLED BUILDINGS) (FBC T.803								
EXIT ACCESS TRAVEL DISTANCE (FBC 10	•	GROUP EXITS C	CORRIDORS & ROOMS AND FLAME SPREAD ENCLOSURES ENCLOSED SPACES CLASSIFICATION							
OCCUPANCY W/O SPRINKLER S	MAXIMUM TRAVEL DISTANCE	A-5 A	A C CLASS (A):							
W/O SPRINKLER S	SYSTEM (FT) W/ SPRINKLER SYSTEM (FT) 0 FT NA		FLAMESPREAD 0-25							
,, 5	IVA		CLASS (B): FLAMESPREAD 26-75							
			CLASS (C): FLAMESPREAD 76-200							
		1								
EXIT ACCESS CORRIDORS (FBC T.10201)			FLAIMESPREAD 70-200							
EXIT ACCESS CORRIDORS (FBC T.10201)	QUIRE FIRE RESISTANCE RATING (HOURS)		PLAIMESPREAD 70-200							
EXIT ACCESS CORRIDORS (FBC T.10201)	QUIRE FIRE RESISTANCE RATING (HOURS)		FLAWESPREAD 70-200							
EXIT ACCESS CORRIDORS (FBC T.10201)	QUIRE FIRE RESISTANCE RATING (HOURS)		PLAINESPREAD 70-200							

CLASS A RATING	LIGHT HAZARD OCCUPANCY	ORDINARY HAZARD OCCUPANCY	EXTRA HAZARD OCCUPANCY
1-A		-	
2-A	6,000	3,000	
3-A	9,000	4,500	
4-A	11,250	6,000	4,000
6-A	11,250	9,000	6,000
10 - A	11,250	11,250	10,000
20-A	11,250	11,250	11,250
30-A	11,250	11,250	11,250
40 - A	11,250	11,250	11,250

	LIGHT HAZARD OCCUPANCY	ORDINARY HAZARD OCCUPANCY	EXTRA HAZARD OCCUPANCY
MIN. RATED SINGLE EXTINGUISHER	2-A ¹	2-A	4-A ²



CLIENT:

TOWN OF LONGBOAT KEY

501 BAY ISLES ROAD LONGBOAT KEY, FL 34228

GENERAL CONTRACTOR: JOHN F. SWIFT 2221 8TH STREET SARASOTA, FL 34237

PHONE: (941) 951-6100 CIVIL ENGINEER: <u>DMK ASSOCIATES</u> 421 COMMERCIAL COURT, SUITE C-D

VENICE, FL 34292 PHONE: 941.412.1293 LANDSCAPE ARCHITECT:

<u>DWJA LANDSCAPE ARCHITECT</u> 630 S. ORANGE AVE, SUITE 202 SARASOTA, FL 34236

STRUCTURAL ENGINEER: **BNI ENGINEERS** 2202 N. WESTSHORE BLVD, SUITE 200 TAMPA, FL 33607

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SARASOTA FL 34240 PHONE: 941.907.0103

Family Pavilion Sey Town Center Park Bay Isle Road Sat Key, FL 34228

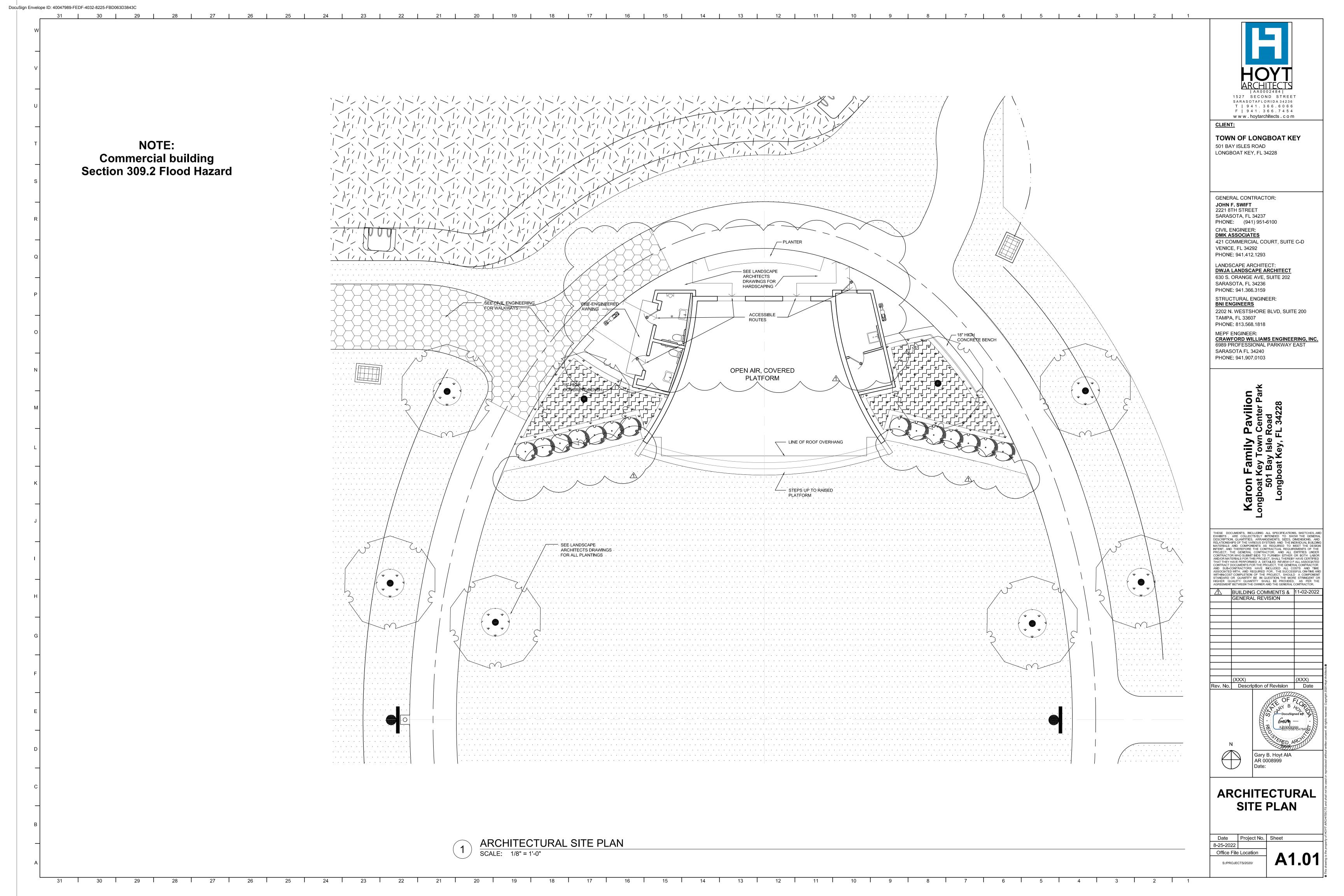
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AND/OR MATERIALS FOR THIS PROJECT, SHALL THEREBY HAVE CERTIFIED
THAT THEY HAVE PERFORMED A DETAILED REVIEW OF ALL ASSOCIATED
CONTRACT DOCUMENTS FOR THE PROJECT, THE GENERAL CONTRACTOR
AND SUB-CONTRACTORS HAVE INCLUDED ALL COSTS AND TIME
ASSOCIATED WITH, AND REQUIRED FOR, THE SUCCESSFUL ON-TIME AND
WITHIN-COST COMPLETION OF THE PROJECT. SHOULD A COMPONENT
STANDARD OR QUANTITY BE IN QUESTION, THE MORE STRINGENT OR
HIGHER QUALITY/ QUANTITY SHALL BE PROVIDED, AS PER THE
AGREEMENT BETWEEN THE OWNER AND THE GENERAL CONTRACTOR.

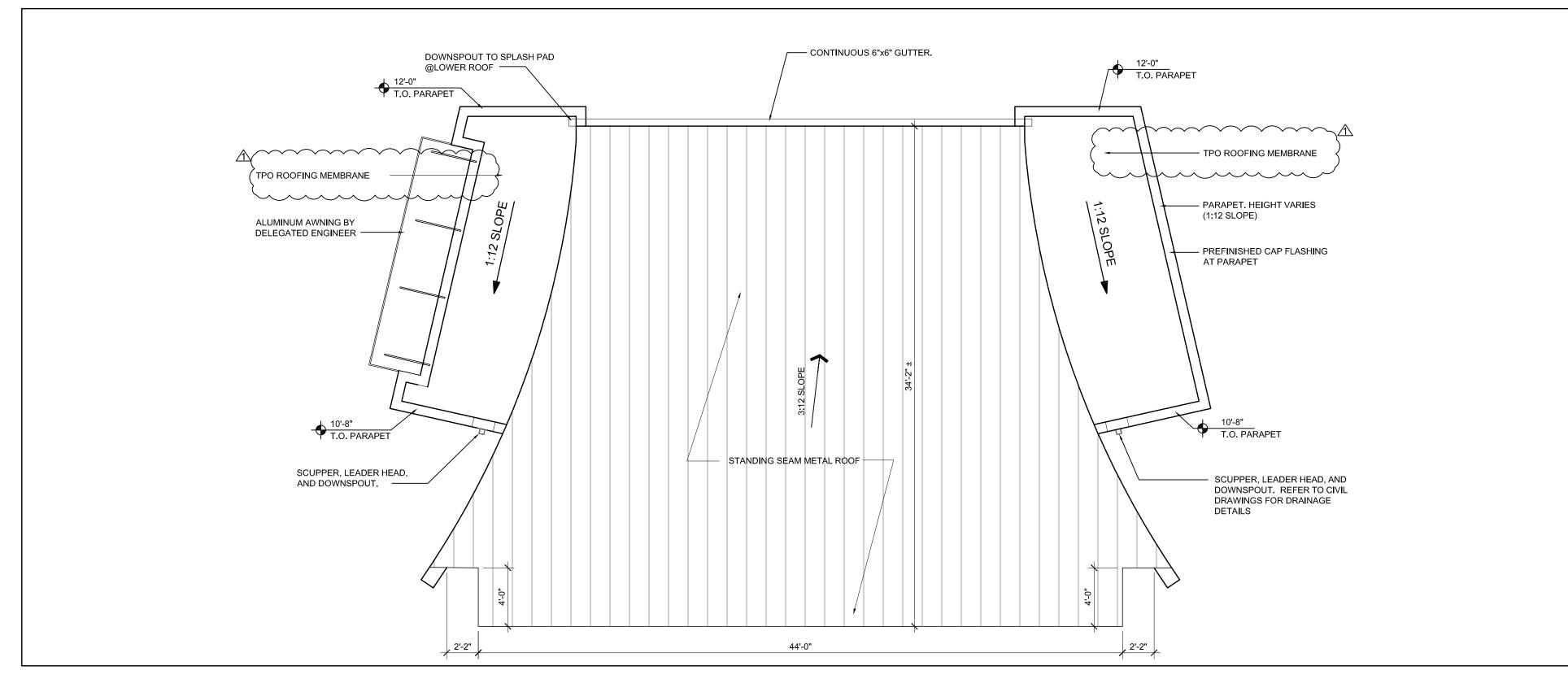
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<u> </u>	BUILDING COMMENTS &	11-02-20
	GENERAL REVISION	

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BUILDING CODE ANALYSIS

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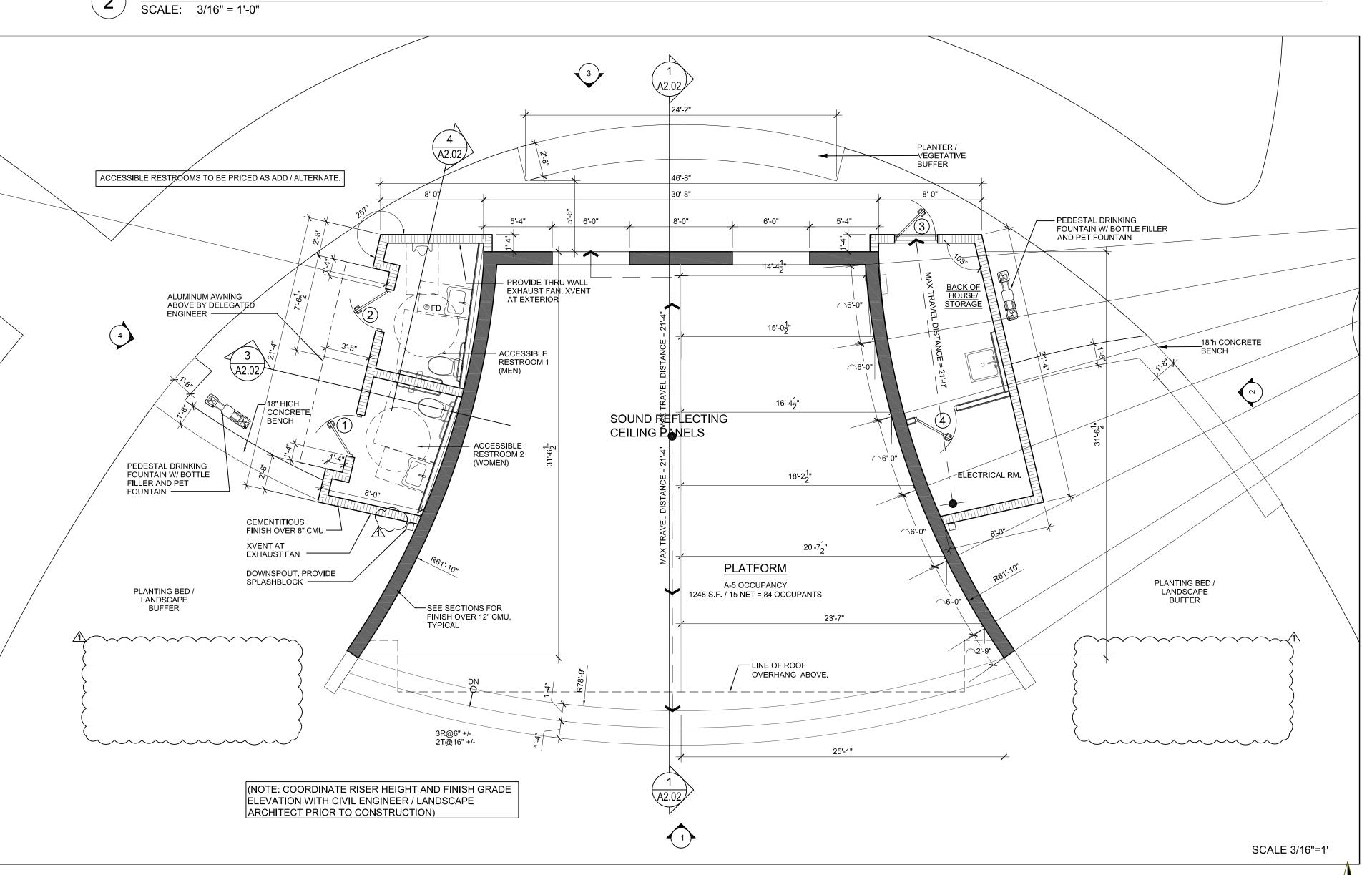




ROOF PLAN

MARK DESCRIPTION TYPE MATERIAL WIDTH HEIGHT 1 WOMEN'S REST ROOM A HM 3' - 0" 7' - 0" 2 MEN'S RESTROOM A HM 3' - 0" 7' - 0"	THICKNESS	NOTES IMPACT RESISTANT. FULLY LOUVERED DOOR. LEVER TYPE HARDWARE. PROVIDE CLOSER AND PRIVACY
1 WOMEN'S REST ROOM A HM 3' - 0" 7' - 0"		
A HM 3'-0" /'-0"	1-3/4"	
(2) MEN'S RESTROOM A HM 3' - 0" 7' - 0"		LOCKSET.
	1-3/4"	IMPACT RESISTANT. FULLY LOUVERED DOOR. LEVER TYPE HARDWARE. PROVIDE CLOSER AND PRIVACY LOCKSET.
BACK OF HOUSE A HM 3'-0" 7'-0"	1-3/4"	IMPACT RESISTANT FULLY LOUVERED DOOR. PROVIDE ADA THRESHOLD. LEVER TYPE HARDWARE. STOREROOM LOCKSET. PERIMETER WEATHER SEAL.
4 ELECTRICAL ROOM A HM 3'-0" 7'-0"	1-3/4"	FULLY LOUVERED DOOR. LEVER TYPE HARDWARE. STOREROOM LOCKSET.

-	MATERIALS APPROVAL SCHEDULE							
	MATERIAL	MANUFACTURER	N.O.A. # / FL. APPROVAL #	DESCRIPTION	REMARKS			
	FLUSH DOOR	FLEMING	FL#: 16356.2	SINGLE FLUSH OUTSWING COMMERCIAL DOOR. IMPACT	APPROVED: 12/15/2020			
İ	STANDING SEAM METAL ROOF	SENTRIGARD METAL	FL#: 9860.9 R6	VERTICAL LEG SNAP TOGETHER STANDING SEAM METAL ROOFING	APPROVED: 10/1/2020			
	TPO ROOF SYSTEM	FIRESTONE	FL#: 10264-R15	ULTRAPLY SINGLE PLY TPO ROOF SYSTEM	APPROVED: 09/23/2020			
-								



w w w hoytarchitects c o m

CLIENT:

TOWN OF LONGBOAT KEY 501 BAY ISLES ROAD

LONGBOAT KEY, FL 34228

GENERAL CONTRACTOR: **JOHN F. SWIFT** 2221 8TH STREET

SARASOTA, FL 34237 PHONE: (941) 951-6100 CIVIL ENGINEER: **DMK ASSOCIATES**

VENICE, FL 34292 PHONE: 941.412.1293 LANDSCAPE ARCHITECT:

DWJA LANDSCAPE ARCHITECT 630 S. ORANGE AVE, SUITE 202

421 COMMERCIAL COURT, SUITE C-D

SARASOTA, FL 34236 PHONE: 941.366.3159 STRUCTURAL ENGINEER:

BNI ENGINEERS 2202 N. WESTSHORE BLVD, SUITE 200 TAMPA, FL 33607 PHONE: 813.568.1818

MEPF ENGINEER: <u>CRAWFORD WILLIAMS ENGINEERING, INC.</u> 6989 PROFESSIONAL PARKWAY EAST SARASOTA FL 34240 PHONE: 941.907.0103

Karon ongboat I 501 Longb

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BUILDING COMMENTS & 11-02-2022
GENERAL REVISION Rev. No. Description of Revision Date

FLOOR AND ROOF **PLANS**

Gary B. Hoyt AIA AR 0008999

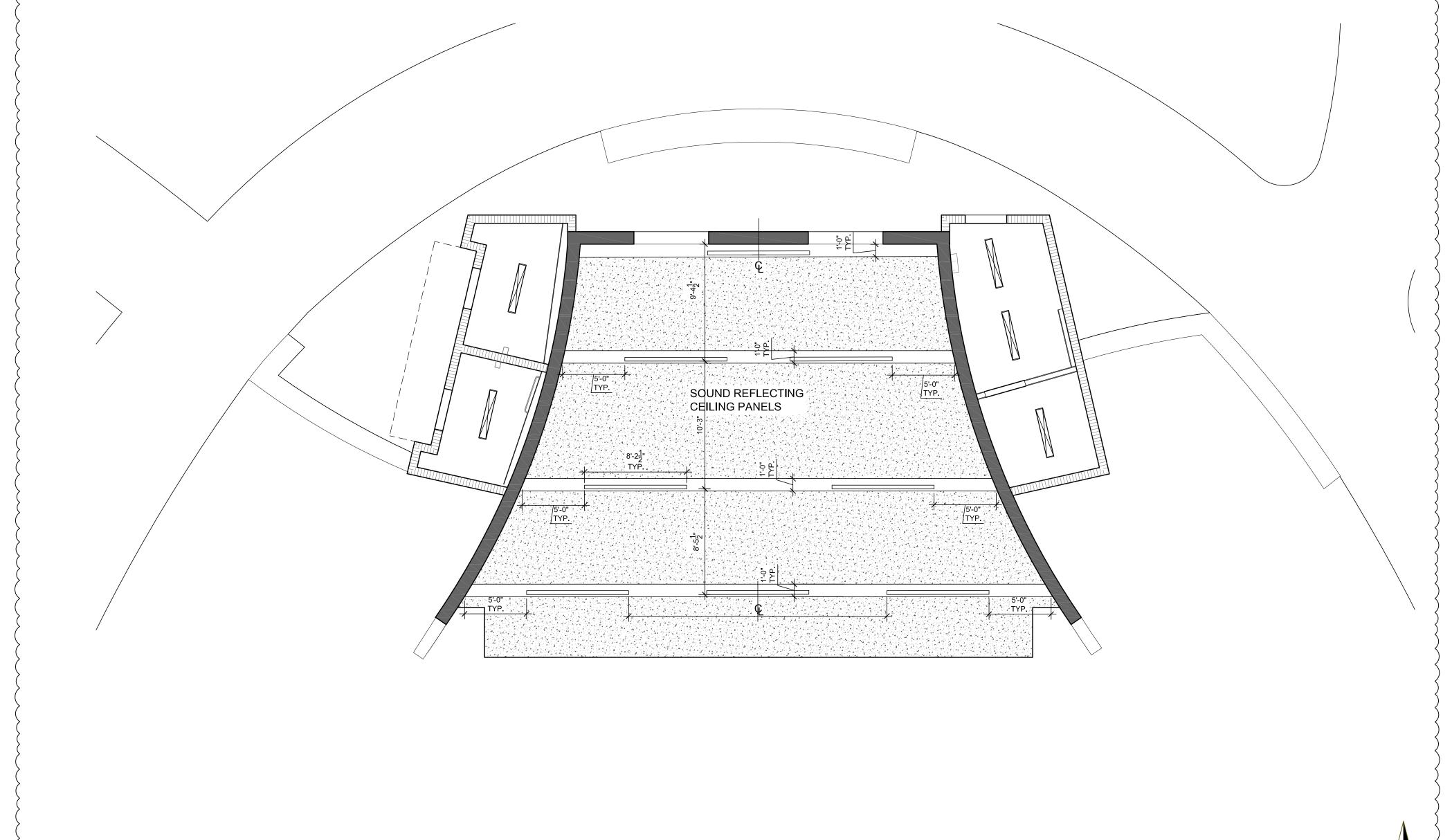
Date Project No. Sheet 8-25-2022 Office File Location

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FLOOR PLAN SCALE: 3/16" = 1'-0"

31 | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

		SYMBOL LEGEND
SY	M.	DESCRIPTION
		VANDAL RESISTANT LINEAR FIXTURE. SEE ELECTRICAL
Å	\	CEILING MOUNTED STAGE LIGHTING. TO BE DETERMINED.
	<u>) </u>	WALL MOUNTED LIGHT FIXTURE
		WALL MOUNTED FLOOD LIGHT
)	RECESS MOUNTED INCANDESCANT LIGHT FIXTURE
		SUSPENDED LINEAR LIGHT FIXTURE
		7/8" STUCCO OVER 5/8" SHEATHING OVER DELEGATED ENGINEERED LIGHT) GAUGE FRAMING W/ DRYVIT FERROS FINISH



22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1



CLIENT:

TOWN OF LONGBOAT KEY 501 BAY ISLES ROAD

LONGBOAT KEY, FL 34228

GENERAL CONTRACTOR: JOHN F. SWIFT 2221 8TH STREET SARASOTA, FL 34237 PHONE: (941) 951-6100

CIVIL ENGINEER: **DMK ASSOCIATES** 421 COMMERCIAL COURT, SUITE C-D VENICE, FL 34292 PHONE: 941.412.1293

LANDSCAPE ARCHITECT:

DWJA LANDSCAPE ARCHITECT 630 S. ORANGE AVE, SUITE 202 SARASOTA, FL 34236 PHONE: 941.366.3159 STRUCTURAL ENGINEER:

BNI ENGINEERS 2202 N. WESTSHORE BLVD, SUITE 200 TAMPA, FL 33607 PHONE: 813.568.1818

MEPF ENGINEER:

CRAWFORD WILLIAMS ENGINEERING, INC.
6989 PROFESSIONAL PARKWAY EAST SARASOTA FL 34240 PHONE: 941.907.0103

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BUILDING COMMENTS & 11-02-2022
GENERAL REVISION
 (XXX)
 (XXX)

 Rev. No.
 Description of Revision
 Date

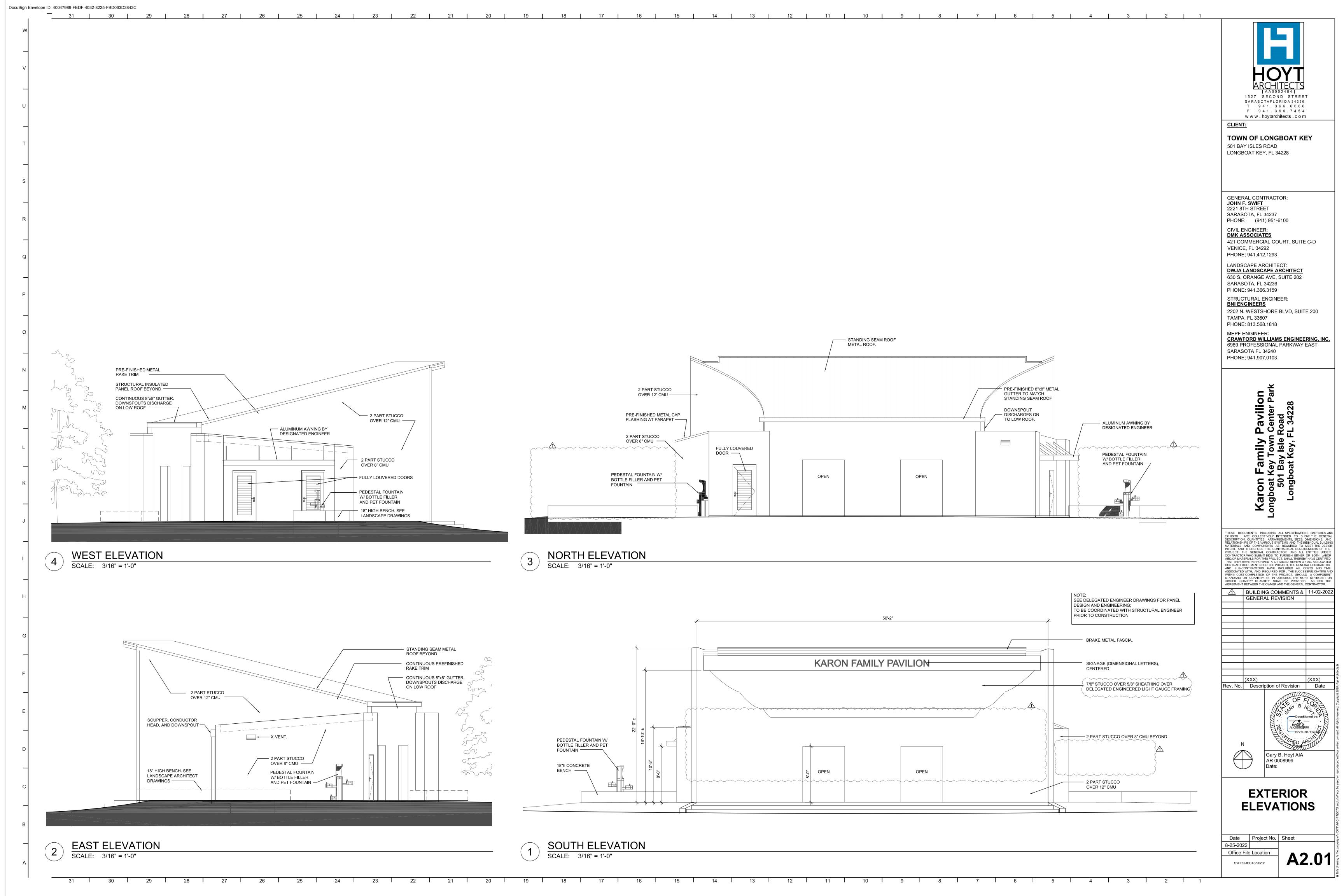
Gary B. Hoyt AIA AR 0008999

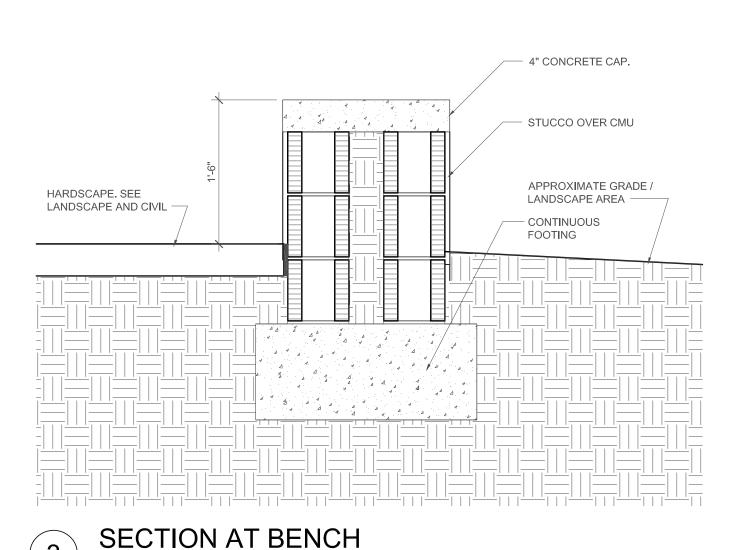
REFLECTED **CEILING PLAN**

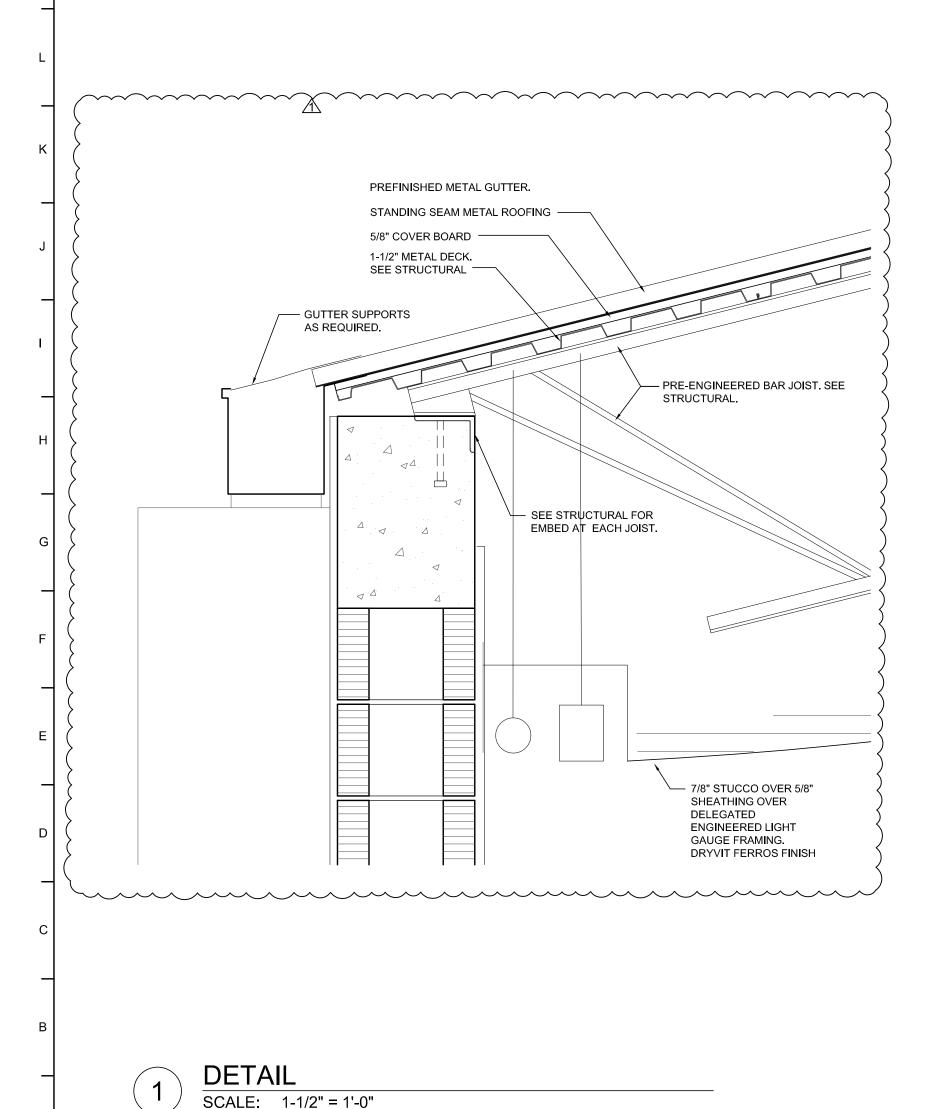
Date Project No. Sheet 8-25-2022

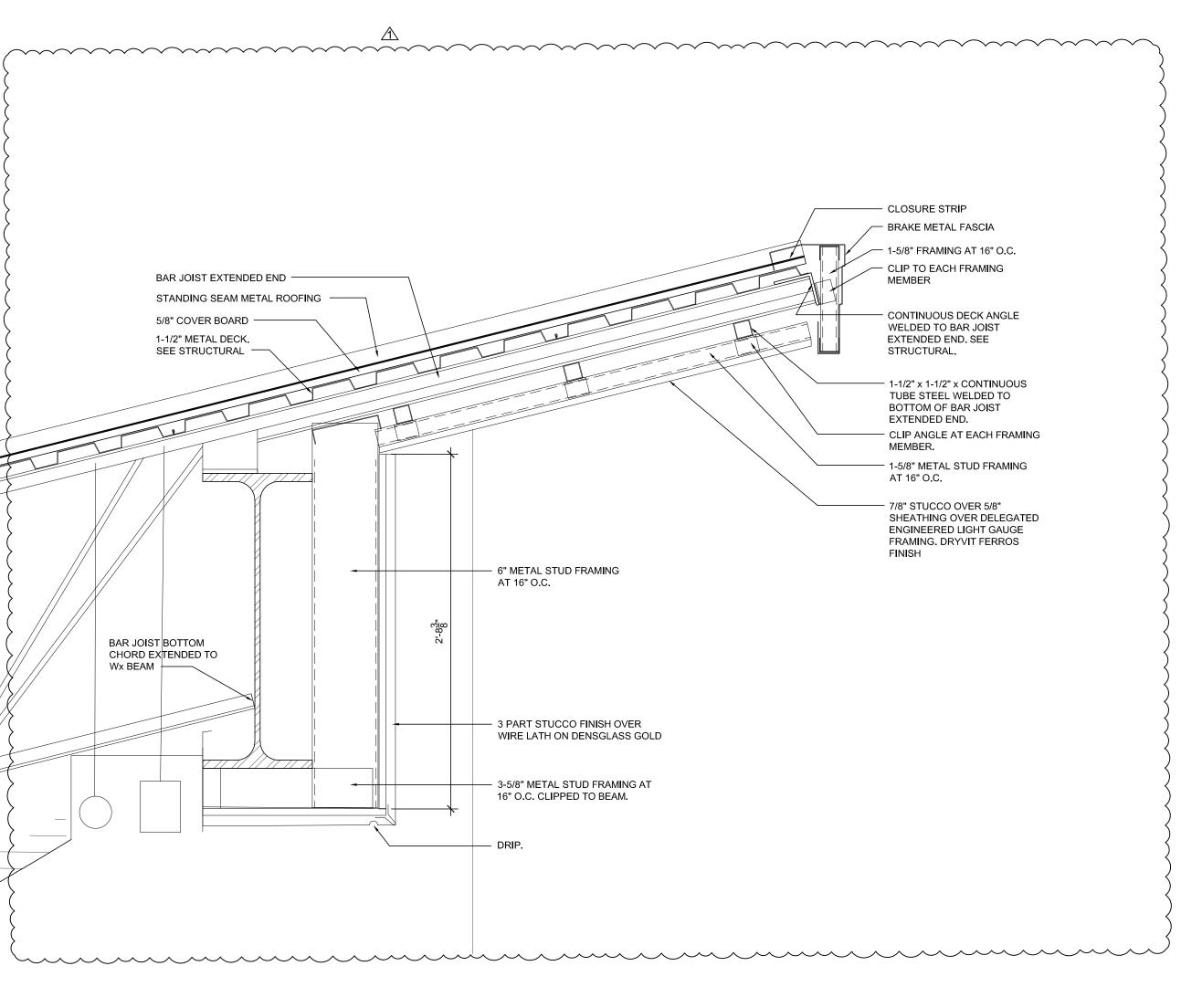
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REFLECTED CEILING PLAN









HOYT

ARCHITECTS

| AA0002484 |

1527 SECOND STREET

SARASOTAFLORIDA 34236

T | 941.366.6066

F | 941.366.7454

www.hoytarchitects.com

CLIENT:

TOWN OF LONGBOAT KEY
501 BAY ISLES ROAD

LONGBOAT KEY, FL 34228

GENERAL CONTRACTOR: JOHN F. SWIFT 2221 8TH STREET SARASOTA, FL 34237

SARASOTA, FL 34237
PHONE: (941) 951-6100

CIVIL ENGINEER:

DMK ASSOCIATES

421 COMMERCIAL COURT, SUITE C-D

VENICE, FL 34292
PHONE: 941.412.1293

LANDSCAPE ARCHITECT:
DWJA LANDSCAPE ARCHITECT
630 S. ORANGE AVE, SUITE 202
SARASOTA, FL 34236

PHONE: 941.366.3159

STRUCTURAL ENGINEER:
BNI ENGINEERS

2202 N. WESTSHORE BLVD, SUITE 200
TAMPA, FL 33607

TAMPA, FL 33607
PHONE: 813.568.1818
MEPF ENGINEER:
CRAWFORD WILLIAMS ENGINEERIN

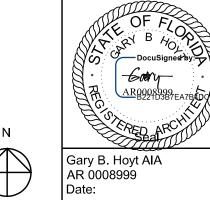
MEPF ENGINEER:

<u>CRAWFORD WILLIAMS ENGINEERING, INC.</u>
6989 PROFESSIONAL PARKWAY EAST
SARASOTA FL 34240
PHONE: 941.907.0103

raron ramily ravillon ongboat Key Town Center Park 501 Bay Isle Road Longboat Key, FL 34228

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DETAILS

Date Project No. Sheet
8-25-2022

Office File Location

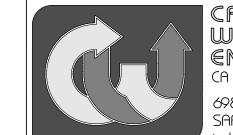
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2 DETAIL

SCALE: 1-1/2" = 1'-0"

31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 1 6 5 1 4 3 2 1 1



CRAWFORD, WILLIAMS ENGINEERING, Inc. CA 7029

6989 PROFESSIONAL PKWY. E. SARASOTA, FLORIDA 34240 tel [941] 907-0103 fax [941] 907-0152

MECHANICAL | ELECTRICAL

PLUMBING

 $ar{\otimes}$ FIRE

ARCHITECTS

| AA0002484 |

1527 SECOND STREET

SARASOTAFLORIDA 34236 T | 941.366.6066 F | 941.366.7454

CLIENT:

TOWN OF LONGBOAT KEY 501 BAY ISLES ROAD LONGBOAT KEY, FL 34228

w w w . hoytarchitects . c o m

GENERAL CONTRACTOR:

CIVIL ENGINEER: DMK ASSOCIATES

421 COMMERCIAL COURT, SUITE C-D VENICE, FL 34292 PHONE: 941.412.1293

LANDSCAPE ARCHITECT: DWJA LANDSCAPE ARCHITECT 630 S. ORANGE AVE, SUITE 202

SARASOTA, FL 34236 PHONE: 941.366.3159 STRUCTURAL ENGINEER: BNI ENGINEERS

PHONE: 941.907.0103

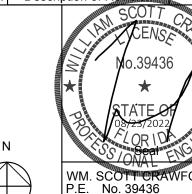
2202 N. WESTSHORE BLVD, SUITE 200 TAMPA, FL 33607 PHONE: 813.568.1818

MEPF ENGINEER: CRAWFORD WILLIAMS ENGINEERING, INC. 6989 PROFESSIONAL PARKWAY EAST SARASOTA FL 34240

Family Pavilion ey Town Center Park Bay Isle Road at Key, FL 34228

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Building Comments & General Revision

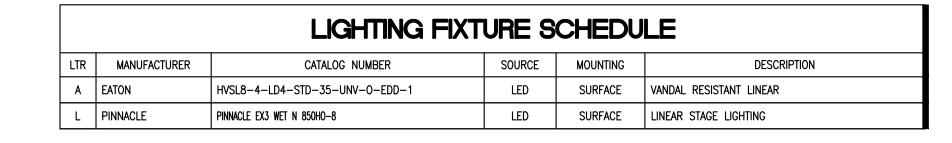


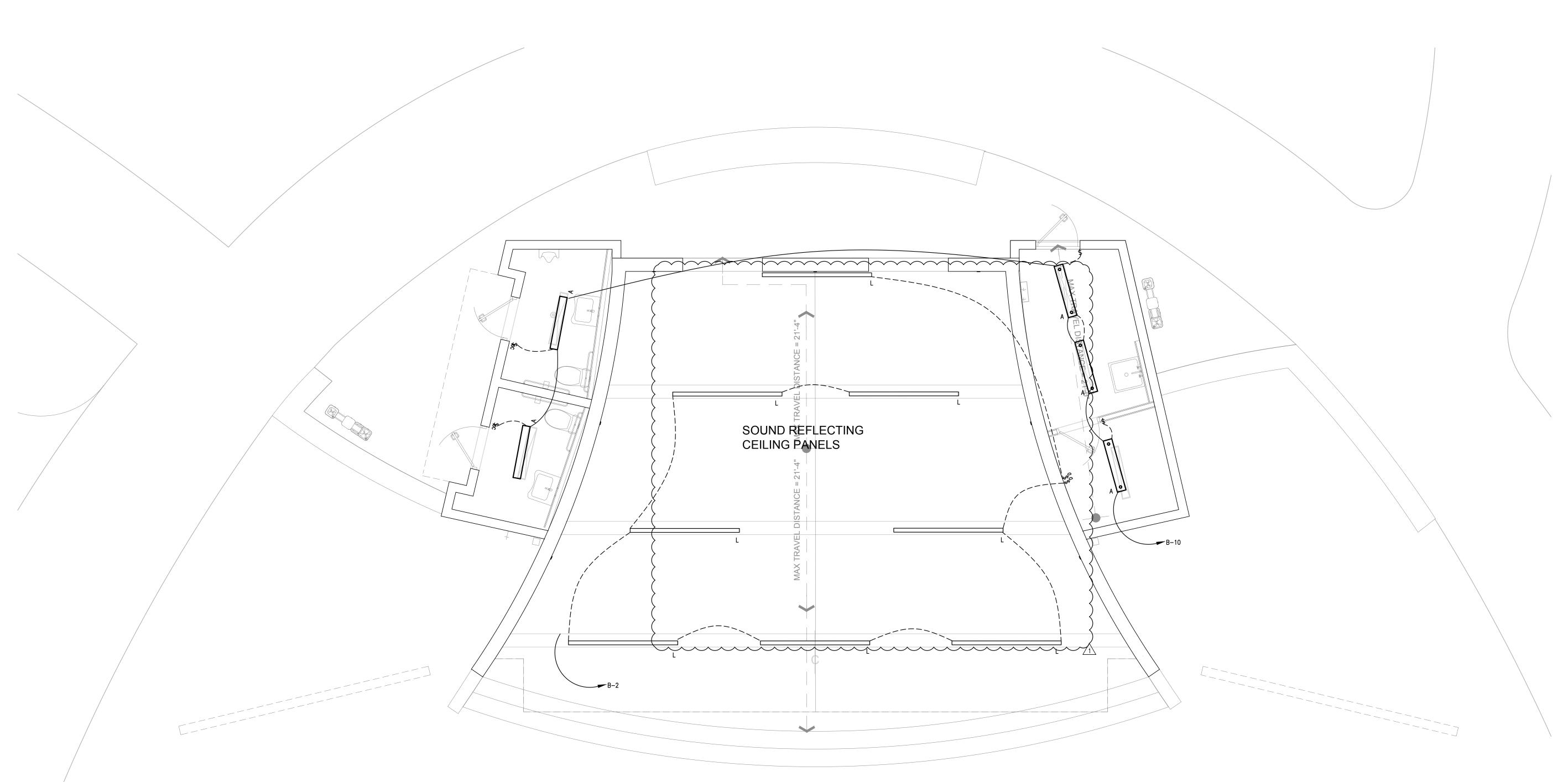
WM. SCOTT-GRAM. P.E. No. 39436

ELECTRICAL LIGHTING PLAN

Date Project No. Sheet

Office File Location S:/PROJECTS/2020/

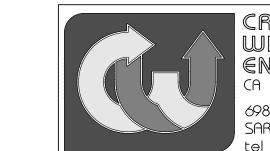




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ELECTRICAL LIGHTING FLOOR PLAN 1/4" = 1'-0"



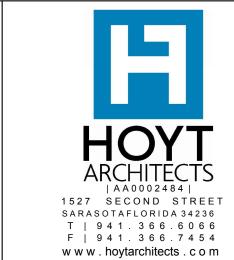
ELECTRICAL POWER FLOOR PLAN

CRAWFORD, WILLIAMS ENGINEERING, Inc. CA 7029

6989 PROFESSIONAL PKWY. E. SARASOTA, FLORIDA 34240 tel [941] 907-0103 fax [941] 907-0152

MECHANICAL | ELECTRICAL

PLUMBING FIRE



CLIENT:

TOWN OF LONGBOAT KEY 501 BAY ISLES ROAD LONGBOAT KEY, FL 34228

GENERAL CONTRACTOR: TBD

CIVIL ENGINEER: DMK ASSOCIATES 421 COMMERCIAL COURT, SUITE C-D VENICE, FL 34292 PHONE: 941.412.1293

LANDSCAPE ARCHITECT:

DWJA LANDSCAPE ARCHITECT 630 S. ORANGE AVE, SUITE 202

SARASOTA, FL 34236 PHONE: 941.366.3159 STRUCTURAL ENGINEER: BNI ENGINEERS

2202 N. WESTSHORE BLVD, SUITE 200 TAMPA, FL 33607 PHONE: 813.568.1818

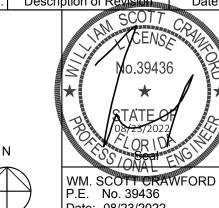
MEPF ENGINEER: CRAWFORD WILLIAMS ENGINEERING, INC. 6989 PROFESSIONAL PARKWAY EAST SARASOTA FL 34240

PHONE: 941.907.0103

Family Pavilion ey Town Center Park Bay Isle Road at Key, FL 34228

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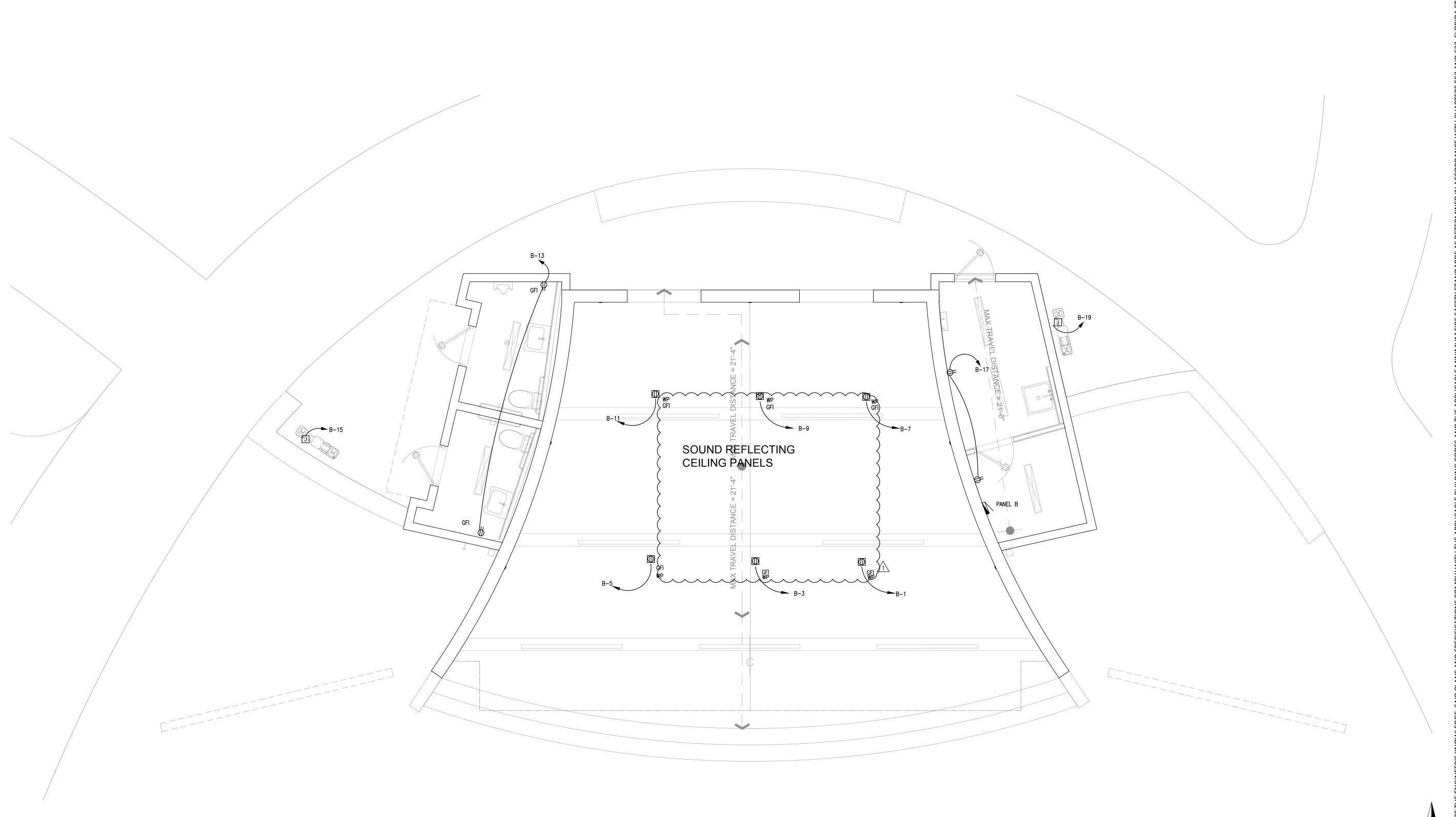
Building Comments & General Revision



ELECTRICAL POWER PLAN

Date Project No. Sheet

Office File Location S:/PROJECTS/2020/



SYMBOL DESCRIPTION COMMENT TYPICAL 2x4 CEUNO—MOUNTED, FLUORESCENT LIGHT FIXTURE SUB LETTER INDICATES FIXTURE TYPE SUB LETTER INDICATES FIXTURE TYPE FLUORESCENT STRIP SUB LETTER INDICATES FIXTURE TYPE TYPICAL SURFACE MOUNTED FIXTURE SUB LETTER INDICATES FIXTURE TYPE SEE FIXTURE SCHEDULE TYPICAL SURFACE MOUNTED FIXTURE SUB LETTER INDICATES FIXTURE TYPE TYPICAL PENDENT MOUNTED LIGHT FIXTURE SUB LETTER INDICATES FIXTURE TYPE SEE FIXTURE SCHEDULE TYPICAL TRACK LIGHTING FIXTURE SUB LETTER INDICATES FIXTURE TYPE SEE FIXTURE SCHEDULE TYPICAL TRACK LIGHTING FIXTURE SUB LETTER INDICATES FIXTURE TYPE SEE FIXTURE SCHEDULE SEE FIXTURE		GHTING + SWITCH SYMBOL	LEGEND
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\$\text{MOTOR RATED SWITCH} \\ \text{MOUNT TO UNIT UNLESS OTHERWISE NOTED} \\ \text{Soc} \\ \text{WALL SWITCH OCCUPANCY SENSOR (DUAL), LEVITON} \\ \text{MOUNT AT 48" AFF UNLESS OTHERWISE NOTED} \\ \text{MOUNT AT 48" AFF UNLESS OTHERWISE NOTED} \\ \text{Soc} \\ \text{LIGHTING CONTROL PANEL LOW VOLTAGE SWITCH WITH} \\ \text{MOUNT AT 48" AFF UNLESS OTHERWISE NOTED} \\ \text{MOUNT AT 48" AFF UNLESS OTHERWISE NOTED} \\ \text{A SWITCHBANK (EXCLUDING LETTERS "J", "T", AND "M")} \\ \text{SEE DETAIL CORRESPONDING TO INDICATED LETTER} \\ \text{MOUNT AT 48" AFF UNLESS OTHERWISE NOTED} \\ \text{OTHERWISE NOTED} \\ O	\$4		MOUNT AT 48" AFF UNLESS OTHERWISE NOTED
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"OSSMT-MD*" (30'W X 40'L) SI 1-01 CIGHTING CONTROL PANEL LOW VOLTAGE SWITCH WITH DESIGNATION A SWITCHBANK (EXCLUDING LETTERS "J", "T", AND "M") SEE DETAIL CORRESPONDING TO INDICATED LETTER OTHERWISE NOTED MOUNT AT 48" AFF UNLES OTHERWISE NOTED	\$м	MOTOR RATED SWITCH	
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(ICP) LICHTING CONTROL PANEL		SWITCHBANK (EXCLUDING LETTERS "J", "T", AND "M") SEE DETAIL CORRESPONDING TO INDICATED LETTER	MOUNT AT 48" AFF UNLESS OTHERWISE NOTED
XX RELAY #	LCP XX	LIGHTING CONTROL PANEL RELAY #	

RECE	PTACLE, DATA + TELEVISION SYN	ABOL LEGEND
SYMBOL	DESCRIPTION	COMMENT

Ф	SIMPLEX RECEPTACLE	MOUNT AT 18" AFF UNLESS OTHERWISE NOTED
Ф	DUPLEX RECEPTACLE	MOUNT AT 18" AFF UNLESS OTHERWISE NOTED
#	QUADRAPLEX RECEPTACLE	MOUNT AT 18" AFF UNLESS OTHERWISE NOTED
Ф	ABOVE COUNTER RECEPTACLE	MOUNT AT 6" ABOVE COUNTI UNLESS OTHERWISE NOTED
Ф	220V RECEPTACLE—AMPS AS INDICATED ON PLANS REFER TO NEMA PLUG & CONNECTOR CONFIGURATION DETAIL	MOUNT AT 18" AFF UNLESS OTHERWISE NOTED
\$	2 OR 3 POLE RECEPTACLE-AMPS AS INDICATED ON PLANS REFER TO NEMA PLUG & CONNECTOR CONFIGURATION DETAIL	MOUNT AT 18" AFF UNLESS OTHERWISE NOTED
Ф	HALF-SWITCHED RECEPTACLE	MOUNT AT 18" AFF UNLESS OTHERWISE NOTED
•	FLOOR MOUNTED RECEPTACLE (HUBBLE SYSTEMONE OR EQUAL)	FLUSH WITH FLOOR
	CEILING MOUNTED RECEPTACLE	FLUSH WITH CEILING
4	BUILDING EXTERIOR/ROOF-MOUNTED DUPLEX RECEPTACLE. DEVICE SHALL INCLUDE WATERPROOF BACK-BOX WITH DIE-CAST, WEATHERPROOF IN-USE LOCKING COVER - PASS & SEYMOUR CAT# WIUC10-CAGV. RECEPTACLE SHALL BE G.F.I. PROTECTED EITHER AT THE RECEPTACLE OR FROM THE CIRCUIT BREAKER IN THE PANELBOARD SERVING CKT. IF TOTAL BRANCH CIRCUIT ONE-WAY LENGTH IS GREATER THAN 200', UTILIZE GFCI RECEPTACLES IN PLACE OF GFCI BREAKER (PER MANUFACTURER RECOMMENDATIONS.	MOUNT AT 18" AFF UNLESS OTHERWISE NOTED
J	JUNCTION BOX	ACCORDING TO NEC REQUIREMENTS
K	TELEPHONE OUTLET	MOUNT AT 18" AFF UNLESS OTHERWISE NOTED
	ABOVE COUNTER TELEPHONE OUTLET	MOUNT AT 6" ABOVE COUNT UNLESS OTHERWISE NOTED
	FLOOR MOUNTED TELEPHONE OUTLET	FLUSH WITH FLOOR
	CEILING MOUNTED TELEPHONE OUTLET	FLUSH WITH CEILING
▼	COMBINATION DATA/TEL/COMM OUTLET	MOUNT AT 18" AFF UNLESS OTHERWISE NOTED
★	ABOVE COUNTER COMBINATION DATA/TEL/COMM OUTLET	MOUNT AT 6" ABOVE COUNT UNLESS OTHERWISE NOTED
	FLOOR MOUNTED COMBINATION DATA/TEL/COMM OUTLET	FLUSH WITH FLOOR
	CEILING MOUNTED DATA/TEL/COMM OUTLET	FLUSH WITH CEILING
√īv ⟩	TELEVISION OUTLET REFER TO TELEVISION OUTLET DETAIL	MOUNT AT 18" AFF UNLESS OTHERWISE NOTED

ELECTRICAL GENERAL NOTES

- DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE DRAWINGS FOR THE EXACT LOCATION OF EQUIPMENT, CONDUITS, LIGHTING FIXTURES RECEPTACLES, ETC.
- COORDINATE ALL DEVICE LOCATIONS WITH OTHER TRADES AND WITH
- ARCHITECTURAL, INTERIOR DESIGN AND FURNISHING PLANS. 3. ALL ELECTRICAL WORK SHALL BE PER THE 2017 NATIONAL ELECTRIC CODE,

THE 2020 FLORIDA BUILDING CODE, 7th EDITION, THE FLORIDA FIRE

- PREVENTION CODE 2020, AND ANY LOCAL CODES OR ORDINANCES. 4. CONTRACTOR SHALL PAY FOR ALL FEES, TAXES AND PERMITS.
- 5. ALL POWER AND LINE VOLTAGE CONTROL WIRING BY THE ELECTRICAL CONTRACTOR. HVAC CONTROL WIRING BY MECHANICAL CONTRACTOR. CONDUIT INSTALLED BY ELECTRICIAN.
- 6. ALL PANELS SHALL HAVE TYPEWRITTEN DIRECTORIES.
- 7. THE CONTRACTOR SHALL KEEP AN UPDATED SET OF AS-BUILT DRAWINGS ON THE JOB-SITE AT ALL TIMES. FINISHED AS-BUILT DRAWINGS SHALL BE TURNED OVER TO THE OWNER AT THE TIME OF PROJECT COMPLETION.
- 8. ALL WIRE AND CABLE SHALL BE COPPER, MINIMUM SIZE #12 AWG (#14 AWG SHALL BE USED FOR CONTROL WORK). SIZE #10 AWG AND SMALLER SHALL BE SOLID TYPE THHN OR THWN, SIZES #8 AWG AND LARGER SHALL BE STRANDED TYPE THW OR THHN. ALL WIRING SHALL BE IN EMT WITH THE EXCEPTION OF EQUIPMENT DROPS IN MC CABLE.
- 9. CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL THE EXISTING CONDITIONS.
- 10. ALL REQUIRED INSURANCE SHALL BE PROVIDED BY THIS CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- 11. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A GUARANTEE AGAINST DEFECTIVE WORKMANSHIP. MATERIALS AND EQUIPMENT FOR A PERIOD OF 1 YEAR FROM THE DATE OF ACCEPTANCE.
- 12. SUBMIT ELECTRONIC (PDF FILE) SHOP DRAWINGS WITH TYPED INDEXES SHOWING TYPE AND CATALOG NUMBERS ON ALL EQUIPMENT AND OBTAIN APPROVAL PRIOR TO ORDER AND INSTALLATION.
- 13. PROVIDE ENGRAVED PHENOLIC NAMEPLATES, 1/4" WHITE LETTERS ON A BLACK BACKGROUND, FOR ALL PANELS, MAIN SWITCHES, ETC., FASTEN WITH A MINIMUM OF 2 SCREWS. SERVICE MAINS TO BE MARKED WITH RED BACKGROUND PLATES.
- 14. AT DATA/COMM/TEL OUTLETS SHOWN, PROVIDE J-BOX AND 3/4" CONDUIT TO 6" ABOVE CEILING. FACE PLATE AND WIRING BY OTHERS.
- 15. COORDINATE ALL CONDUIT REQUIREMENTS WITH HVAC CONTROLS, FIRE ALARM, SECURITY AND OTHER TRADES.
- 16. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED BUT NECESSARY FOR PROPER OPERATION AND CONSISTENT WITH GOOD WORKMANSHIP, ARE TO BE INCLUDED BY THE CONTRACTOR IN HIS ESTIMATE, THE SAME AS IF SHOWN IN THE DRAWINGS OR SPELLED OUT IN THE SPECIFICATIONS.
- 17. THE ELECTRICAL CONTRACTOR SHALL ADDRESS ANY PRE-BID AND/OR FIELD DISCOVERED PROBLEMS AND OR CONFLICTS, ETC. VIA TYPEWRITTEN RFI TO THE ENGINEER FOR RESOLUTION PRIOR TO THE BID DATE.
- 18. MATERIALS OR PRODUCTS SPECIFIED HEREIN AND/OR INDICATED ON DRAWINGS BY TRADE NAME, MANUFACTURER'S NAME OR CATALOG NUMBER SHALL BE PROVIDED AS SPECIFIED.
- 19. ALL PROPOSED SUBSTITUTIONS TO ITEMS SPECIFIED ON THESE PLANS ARE TO BE SUBMITTED NO LATER THAN FIVE (5) WORKING DAYS PRIOR TO THE BID DATE. SUBSTITUTIONS WILL NOT BE ALLOWED WITHOUT PRIOR APPROVAL FROM THE ENGINEER/ARCHITECT.
- 20. APPROVALS OF "OR EQUIVALENT" SUBSTITUTIONS WILL BE MAILED TO ALL BIDDERS AS AN ADDENDUM TO THE CONTRACT DOCUMENTS AS DETERMINED NECESSARY BY ENGINEER/ARCHITECT.
- 21. ANY CONTRACTOR WISHING TO SUBMIT FOR AN "OR EQUIVALENT" SUBSTITUTION WILL SUBMIT WITH HIS REQUEST COMPLETE CATALOG INFORMATION TO PERMIT EVALUATION OF THE PRODUCT, AND IN THE CASE OF LIGHTING FIXTURES, A PHOTOMETRIC POINT-BY-POINT REPORT FOR EACH AREA AFFECTED BY SUBSTITUTION(S).

AMPERE 2 WIRE WITH GROUND

RATING 200A



MAINS:

CRAWFORD, WILLIAMS ENGINEERING, Inc. CA 7029

225 A MLO

6989 PROFESSIONAL PKWY. E.

SARASOTA, FLORIDA 34240

tel [941] 907-0103 fax [941] 907-0152

MECHANICAL

ELECTRICAL

PLUMBING

	SCHEDULE		LE LOCATION: REFER					BUS SIZE:			225 A			
		VOLTAC	VOLTAGE: 208Y/2				/120		PANEL MOUNTING:			SURFACE		
		PHASE	•			ASE, 4 WIRE		ALL BREAKERS:		42,000 AIC				
СКТ	LOAD	LOAD	CONN.	BRE	AKER	CONN	. LOAD	BREA	AKER	CONN.	LOAD	LOAD	СКТ	
NO.	DESCRIPTION	CODE	KVA	AMPS	POLE	Α	В	AMPS	POLE	KVA	CODE	DESCRIPTION	NO.	
1	STAGE OUTLET	R	1.00	20	1	2.50		20	1	1.50	L	STAGE LIGHTS	2	
3	STAGE OUTLET	R	1.00	20	1		2.50	20	1	1.50	L	STAGE LIGHTS	4	
5	STAGE OUTLET	R	1.00	20	1	2.50		20	1	1.50	L	STAGE LIGHTS	6	
7	STAGE OUTLET	R	1.00	20	1		2.50	20	1	1.50	L	STAGE LIGHTS	8	
9	STAGE OUTLET	R	1.00	20	1	1.30		20	1	0.30	L	UTILITY/BATHROOM LIGHTS	10	
11	STAGE OUTLET	R	1.00	20	1		1.00						12	
13	BATHROOMS	R	0.36	20	1	0.36							14	
15	DRINKING FOUNTAIN *GFI*	R	0.60	20	1		0.60						16	
17	UTILITY RECEPTACLES	R	0.36	20	1	0.36							18	
19	DRINKING FOUNTAIN *GFI*	R	0.60	20	1		0.60						20	
21						0.00							22	
23							0.00						24	
25						0.00							26	
27							0.00						28	
29						0.00							30	
						7.02	7.20	KVA					_	

PANEL B

TOTAL CONNECTED AMPS: 60.00 AMPS 58.50 | 60.00 | AMPS TOTAL CONNECTED LOAD: 14.22 KVA **TOTAL DEMAND AMPS:** 66.25 AMPS

15.80 KVA

DESIGNATION:

TOTAL DEMAND LOAD: LOAD CODES:

LIGHTING RECEPTACLES

PANELBOARD

MECHANICAL

COMPUTER

KITCHEN

PANEL

ELECTRICAL RISER KEY NOTES

- 1 PROVIDE MAIN BONDING JUMPER AS REQUIRED BY CODE. SIZE TO CODE IF NOT FACTORY INSTALLED.
- PROVIDE EQUIPMENT BONDING JUMPER AS REQUIRED BY CODE. SIZE TO CODE IF NOT FACTORY INSTALLED.
- (3) PROVIDE COPPER GROUNDING ELECTRODE CONDUCTOR. CONNECT TO (2)-3/4" X 10' SECTIONAL GROUND RODS. SPACE GROUND RODS A MINIMUM OF 10' OR TOTAL GROUND ROD LENGTH APART, WHICHEVER IS GREATER. PROVIDE A TIN PLATED, PRE-DRILLED, 2" WIDE COPPER GROUND BUS WITH INSULATORS AND STAINLESS STEEL MOUNTING FEET. LENGTH AS NEEDED, ERICO EGB SERIES OR APPROVED EQUAL. GROUNDING SYSTEM RESISTANCE SHALL HAVE MAXIMUM READING OF 25 OHMS. PROVIDE ADDITIONAL SECTIONS/ LOCATIONS TO ACHIEVE 25 OHMS OR LESS FOR GROUND ROD SYSTEM. IF THE INCOMING COLD WATER PIPE IS METAL AND ELECTRICALLY CONTINUOUS FOR A MINIMUM OF 10 FEET, THEN THE CONTRACTOR SHALL PROVIDE A GROUNDING ELECTRODE CONDUCTOR FROM THE GROUND BUS TO THE PIPE FULL SIZED. PROVIDE A GROUND BONDING CONDUCTOR FROM THE GROUND BUS TO THE BUILDING STRUCTURAL STEEL. DO NOT CONNECT TO THE FOUNDATION RE-BAR UNLESS THE ELECTRICAL CONTRACTOR HAS VERIFIED THE CONTINUITY OF SAID FOUNDATION REBAR IN TOTAL, AND VERIFIED WITH THE STRUCTURAL ENGINEER THAT THE FOUNDATION IS RATED FOR ELECTRICAL CONNECTION. THE ELECTRICAL CONTRACTOR SHALL ARRANGE TO HAVE A GROUNDING TEST PERFORMED AND SHALL THEN SUBMIT A TYPEWRITTEN REPORT TO THE ENGINEER OF SAID TEST. THE GROUNDING ELECTRODE CONDUCTOR SHALL NOT BE ATTACHED TO BUILDING NEUTRAL DURING TEST, GROUNDING CONDUCTORS BELOW GRADE SHALL BE BARE COPPER. ALL EXTERIOR CONNECTIONS TO GROUND RODS SHALL BE CAD WELDED AT THE GROUND ROD AND BUILDING STEEL. WATER PIPE CONNECTIONS SHALL BE A PURPOSE APPROVED GROUNDING CLAMP. EXTERIOR ELECTRODE CONDUCTORS SHALL BE PROVIDED WITH PHYSICAL PROTECTION.
 - WHEN INDICATED ON THE ONE-LINE RISER DIAGRAM, PROVIDE CONCRETE FLUSH-IN-GRADE INSPECTION ENCLOSURES (BROOKS PRODUCTS #38) AND COVER PLATE WITH THE WORDS "GROUND ROD" ON TOP.
- (4) COORDINATE ALL REQUIREMENTS AND LOCATION WITH LOCAL ELECTRIC UTILITY REPRESENTATIVE. REQUEST AVAILABLE FAULT CURRENT LETTER FOR EQUIPMENT MARKING AS PER NEC 110.24.
- 5 PROVIDE STANCHION MOUNTING FOR METERING EQUIPMENT AS REQUIRED.
- 6 PROVIDE 1-#6 CU CONDUCTOR TO EACH TELEPHONE/COMMUNICATION BACKBOARD.

4 WIRE WITH GROUND

(B200) 4-#3/0, #6G. IN 2"C.

 $\overline{7}$ PROVIDE COPPER GROUND BUS AND APPROVED TERMINATIONS.

ELECTRICAL FEEDER/WIRE LEGEND

SYMBOL 3 WIRE WITH GROUND

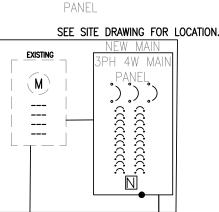
(A200) 3-#3/0, #6G. IN 2"C.

RISER

GENERAL NOTES

IDENTIFY EXISTING SITE LIGHTING CIRCUIT BREAKERS. REUSE EXISTING SITE LIGHTING CIRCUIT BREAKERS. RECONNECT EXISTING EXISTING STANTION SITE LIGHTS AND SITE LIGHTING CONTROLS. WITH METER AND

EXISTING UTILITY PADMOUNT XFMR 208Y/120V 3PH, 4W



ELECTRICAL NOTES & RISER DIAGRAM



CLIENT:

TOWN OF LONGBOAT KEY 501 BAY ISLES ROAD LONGBOAT KEY, FL 34228

w w w . hoytarchitects . c o m

GENERAL CONTRACTOR:

CIVIL ENGINEER: **DMK ASSOCIATES**

421 COMMERCIAL COURT, SUITE C-D VENICE, FL 34292 PHONE: 941.412.1293

LANDSCAPE ARCHITECT: DWJA LANDSCAPE ARCHITECT 630 S. ORANGE AVE, SUITE 202 SARASOTA, FL 34236

PHONE: 941.366.3159 STRUCTURAL ENGINEER: **BNI ENGINEERS**

2202 N. WESTSHORE BLVD, SUITE 200 TAMPA, FL 33607 PHONE: 813.568.1818

MEPF ENGINEER: CRAWFORD WILLIAMS ENGINEERING, INC. 6989 PROFESSIONAL PARKWAY EAST SARASOTA FL 34240 PHONE: 941.907.0103

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THESE DOCUMENTS, INCLUDING ALL SPECIFICATIONS, SKETCHES, AND EXHIBITS, ARE COLLECTIVELY INTENDED TO SHOW THE GENERAL DESCRIPTION, QUANTITIES, ARRANGEMENTS, SIZES, DIMENSIONS, AND RELATIONSHIPS OF THE VARIOUS SYSTEMS AND THE INDIVIDUAL BUILDING MATERIALS AND COMPONENTS AS REQUIRED TO MEET THE DESIGN INTENT, AND THEREFORE THE CONTRACTOR, AND ALL ENTITIES UNDER CONTRACTOR WHO SUBMIT BIDS TO FURNISH EITHER OR BOTH LABOR AND/OR MATERIALS FOR THIS PROJECT, SHALL THEREBY HAVE CERTIFIED THAT THEY HAVE PERFORMED A DETAILED REVIEW OF ALL ASSOCIATED CONTRACT DOCUMENTS FOR THE PROJECT, THE GENERAL CONTRACTOR AND SUB-CONTRACTORS HAVE INCLUDED ALL COSTS AND TIME ASSOCIATED WITH, AND REQUIRED FOR, THE SUCCESSFUL ON-TIME AND WITHIN-COST COMPLETION OF THE PROJECT. SHOULD A COMPONENT STANDARD OR QUANTITY BE IN QUESTION, THE MORE STRINGENT OR HIGHER QUALITY/ QUANTITY SHALL BE PROVIDED. AS PER THE AGREEMENT BETWEEN THE OWNER AND THE GENERAL CONTRACTOR. △۱\ Building Comments &

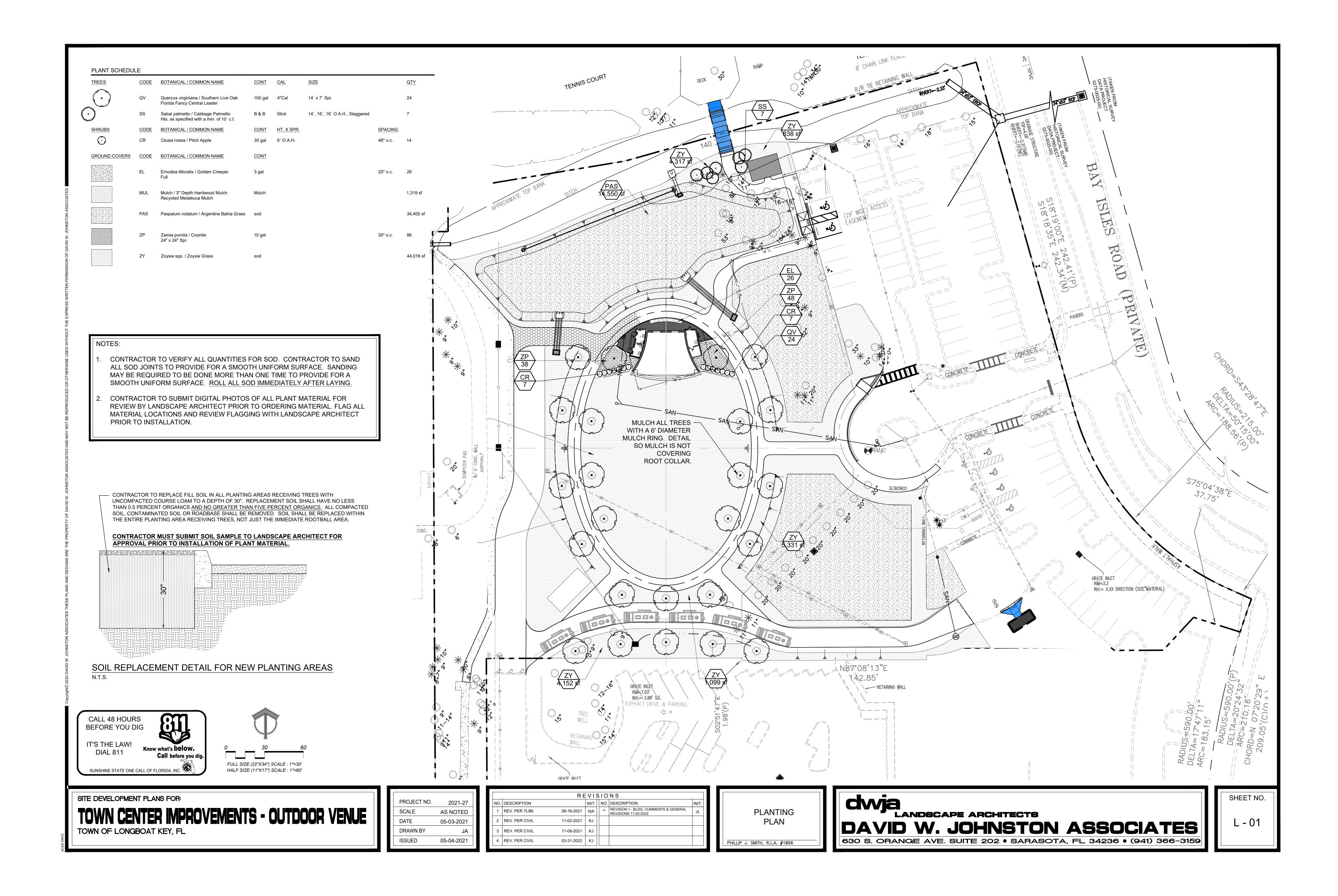
Rev. No. Description of Revision

P.E. No. 39436 Date: 08/23/2022

ELECTRICAL NOTES & RISER

Date | Project No. | Sheet

S:/PROJECTS/2020/



- 1. ALL NEW PLANT MATERIALS USED SHALL CONFORM TO THE STANDARDS FOR FLORIDA NO. 1 OR BETTER AS ESTABLISHED IN "GRADES AND STANDARDS FOR NURSERY PLANTS" PART I AND PART II STATE OF FLORIDA DEPARTMENT OF
- 2. INSTALLATION OF WORK SHALL BE COORDINATED WITH OTHER CONTRACTORS IN SUCH A MANNER AS TO ALLOW FOR A SPEEDY AND ORDERLY COMPLETION OF ALL WORK ON THE SITE.
- 3. CONTRACTORS ARE ADVISED TO REFER TO THE SPECIFICATIONS, CONTRACT DOCUMENTS, AND PLAN SHEETS FOR A MORE DETAILED DISCLOSURE OF PERFORMANCE STANDARDS AND REQUIREMENTS.
- 4. THE CONTRACTOR IS CAUTIONED TO BE AWARE OF UNDERGROUND UTILITIES.
 PRIOR TO EXCAVATION, THE CONTRACTOR SHALL CHECK WITH THE JOB SITE
 SUPERINTENDENT, SUNSHINE ONE, AND THE CITY OF SARASOTA UTILITIES FOR
 LOCATION OF ALL UTILITIES A MINIMUM OF 48 HOURS BEFORE BEGINNING WORK.
- 5. ALL SOD SHALL BE ZOYSIA SOD UNLESS OTHERWISE NOTED ON PLANTING PLAN OR SOD PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINISH GRADING IN SOD AREAS. HAND RAKE PRIOR TO INSTALLING SOD. CONTRACTOR TO CUT AND MATCH IN ALL NEW SOD TO EXISTING SOD. STAGGER AND KICK ALL JOINTS TIGHT. ALL SOD TO BE ROLLED IMMEDIATELY AFTER INSTALLATION.
- 6. CONTRACTOR SHALL APPLY MINIMUM 2 APPLICATIONS OF ROUNDUP HERBICIDE (OR APPROVED EQUAL) ON EXISTING TURF WHERE IT IS REQUIRED TO BE REMOVED FOR PLANTING. ROUNDUP MUST BE SPRAYED PRIOR TO COMMENCING ANY GRADING OPERATIONS. CONTRACTOR SHALL REVIEW TURF KILL WITH LANDSCAPE ARCHITECT OR OWNER REPRESENTATIVE FOR APPROVAL. ALL HERBICIDES MUST BE APPLIED BY LICENSED APPLICATORS PER MANUFACTURERS RECOMMENDED RATES AND INSTRUCTIONS. POST ALL APPLICATIONS. PLANTING IN WEED INFESTED SOIL IS NOT ACCEPTABLE
- 7. ANY EXCESS SOIL OR DEBRIS FROM CONSTRUCTION SHALL BE REMOVED FROM THE SITE AND TAKEN TO THE COUNTY LAND FILL OR OTHER LOCATION AS APPROVED.
- 8. MULCH ALL NEW PLANTING WITH MIN. 3" (OR AS NOTED OTHERWISE ON PLAN) OF
- COCOA BROWN MULCH OR SIMILAR SUSTAINABLY HARVESTED MULCH.

 9. THE LANDSCAPE CONTRACTOR SHALL HAND WATER ALL PLANT MATERIAL AS REQUIRED THE LANDSCAPE CONTRACTOR SHALL BE LIABLE FOR REPLACING TREES AND SHRUBS EXPERIENCING TRANSPLANT SHOCK DUE TO LACK OF
- WATER AT ANY TIME DURING THE COURSE OF LANDSCAPE INSTALLATION.

 10. ALL TREES AND PALMS WITHIN SOD AREAS SHALL BE MULCHED WITH 6' MIN.

 DIAMETER RING 3" DEEP STAKES WHENEVER POSSIBLE SHALL BE WITHIN MULCH RINGS
- 11. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL EXISTING SOD, DEBRIS, WEEDS, AND HANDWORK UNDER EXISTING TREES IN PREPARATION FOR ANY PLANTING.
- 12. CONTRACTOR SHALL REPAIR ANY AREAS DISTURBED DURING THE COMPLETION OF WORK INCLUDING RESODDING OF IRRIGATION TRENCHES AND PLANTING PITS RESULTING FROM MATERIAL RELOCATIONS.
- 13. THE LANDSCAPE CONTRACTOR SHALL INCORPORATE TERRA-SORB INTO ALL PLANTING PITS AS PER MANUFACTURERS RECOMMENDATIONS. TERRA-SORB MANUFACTURED BY INDUSTRIAL SERVICES INTERNATIONAL, INC., BRADENTON, FLORIDA; (800) 227-6727
- 14. CONTRACTOR SHALL STAKE ALL TREES AS PER DETAILS.
- 15. ALL PLANT MATERIAL SHALL BE FERTILIZED ACCORDING TO THE FERTILIZATION CHART.
- 16. CONTRACTOR IS RESPONSIBLE FOR RESTORING ALL DISTURBED AREAS CREATED BY THE CONSTRUCTION. THIS SHALL INCLUDE ALL SOD AND HAND RAKING TO RESTORE A SMOOTH UNIFORM SURFACE. ALSO REMOVAL OF ANY DEBRIS ENCOUNTERED OR CREATED FROM CONSTRUCTION OPERATIONS. ANY MATERIAL REMOVED FROM THE SITE SHALL BE TAKEN TO A SANITARY LANDFILL OR OTHER APPROVED LOCATION.
- 17. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS
- PRIOR TO COMMENCING ANY WORK.
- 18. THE 90-DAY MAINTENANCE PERIOD SHALL BEGIN ONCE SUBSTANTIAL COMPLETION HAS BEEN MADE AND AGREED TO BY THE OWNER.
- 19. FINAL ACCEPTANCE WILL OCCUR AFTER THE OWNER HAS ACCEPTED THE JOB AFTER THE 90-DAY MAINTENANCE PERIOD.
- 20. AN AUTOMATIC IRRIGATION SYSTEM WILL BE INSTALLED TO PROVIDE 100%
 COVERAGE ON ALL NEW PLANT MATERIAL.
 21. MYCOR-TREE AS MANUFACTURED BY PLANT HEALTH CARE, INC. (1-800-421-)
- 21. MYCOR-TREE AS MANUFACTURED BY PLANT HEALTH CARE, INC. (1-800-421-9501) SHALL BE MIXED INTO THE UPPER 10" OF BACKFILL OR SOIL MEDIA AT THE TIME OF PLANTING AND WATERED IN COMPLETELY AFTER USE. INSTALLATION SHALL BE AS FOLLOWS:

INSTALL 1 - 3 OUNCE PAK PER INCH CALIPER FOR TREE OF PALM.
INSTALL 1 - 1 OUNCE APPLICATION FOR ALL 3 GALLON CONTAINER MATERIAL.
INSTALL 1 - 5 GRAM APPLICATION FOR ALL 1 GALLON MATERIAL.

MAINTENANCE PROGRAM:

PLANTING:

UPON SUBSTANTIAL COMPLETION AS DEEMED TRUE BY THE OWNER, A MAINTENANCE PROGRAM FOR ALL PLANT MATERIAL AND IRRIGATION SHALL COMMENCE AND CONTINUE FOR 90-DAYS.

- A. THE CONTRACTOR SHALL MAINTAIN ALL NEWLY PLANTED MATERIALS BY WATERING, PRUNING, CULTIVATING, FERTILIZING, AND WEEDING AS REQUIRED
- FOR HEALTHY GROWTH AND WEED FREE PLANTING BEDS OR SAUCERS.

 B. RESTORE PLANTING SAUCERS, TIGHTEN AND REPAIR STAKES, RESET TREES
- OR PALMS TO PROPER GRADE OR VERTICAL POSITION AS REQUIRED.

 C. SPRAY MATERIAL AS REQUIRED TO KEEP FREE FROM INSECTS AND DISEASE. IRRIGATION:
- A. MAINTAIN THE INSTALLED IRRIGATION SYSTEM IN AN OPERABLE CONDITION AT ALL TIMES.
- B. CHECK FOR LINE BREAKS AND CLEAN BUBBLERS OF DEBRIS SO THAT THEY PROVIDE UNIFORM WATER DISTRIBUTION AT ALL TIMES.
- REPORTS:

 A. PROVIDE BIWEEKLY REPORTS DETAILING MAINTENANCE WORK COMPLETED AND OTHER PERTINENT INFORMATION. REPORT SHALL BE SUBMITTED TO THE OWNER WITH COPIES TO THE LANDSCAPE ARCHITECT.

ALL PLANTINGS SHALL BE FERTILIZED WITH AGRIFORM 20-10-15 PLANTING TABLETS AT THE TIME OF INSTALLATION AND PRIOR TO COMPLETION OF BACKFILLING. AGRIFORM PLANTING TABLETS SHALL BE PLACED UNIFORMLY AROUND THE ROOT MASS AT THE DEPTH THAT IS BETWEEN THE MIDDLE AND THE BOTTOM OF THE ROOT MASS.

21 GRAM TABLET	10 GRAM TABLET	10 GRAM TABLET					
1 GALLON CAN PLANTS	3 GALLON CAN PLANTS	5 GALLON CAN PLANTS	7 GALLON CAN PLANTS	LARGE TREES OR B & B TREES	MATURE PALMS	WELL ROOTED LINERS	SMALL GROUNDCOVERS OR PERENNIALS
1 TABLET	2 TABLETS	3 TABLETS	4 TABLETS	TREES: 5 TABLETS/EA. 1/2" OF CALIPER SHRUBS: 1 TABLET FOR EA. 1' OF HEIGHT	10 TABLETS PER PALM	1 TO 2 TABLETS EACH	1 TABLET EACH

AGRIFORM 20-10-5 PLANTING TABLETS AS MANUFACTURED BY: SIERRA CHEMICAL COMPANY

NOTE: LANDSCAPE ARCHITECT MAY MAKE A RANDOM SAMPLING OF PLANT PITS TO DETERMINE THE UNIFORMITY OF APPLICATION

FERTILIZATION - TREES, SHRUBS AND GROUNDCOVERS

NOT TO SCALE

1001 YOSEMITE DRIVE

MILPITAS. CA 95035

IMPORTANT NOTE:

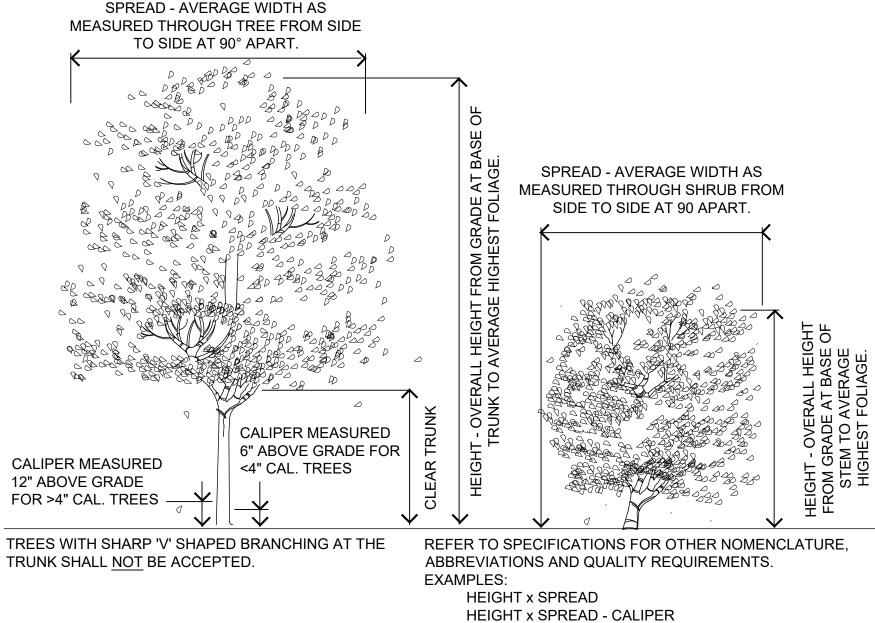
ALL TREES, PALMS AND B&B MATERIAL SHALL BE PLANTED AS FOLLOWS:

- . DIG HOLE.
- 2. SPRINKLE SPECIAL AMENDMENTS
 EVENLY OVER BACKFILL SOIL NEXT
 TO HOLE SO THAT THEY WILL
 THOROUGHLY MIX WITH SOIL
 DURING BACKFILLING OPERATIONS.
- 3. BACKFILL WITH 4" OF SOIL AND PREPARE SHELF FOR ROOTBALL TO SET ONTO.
- 4. PLACE ROOTBALL IN HOLE AND STRAIGHTEN TREE.
- 5. BACKFILL 25% OF DEPTH. WATER AND TAMP IN WHILE MAINTAINING
- THE STRAIGHTENED TREE.

 6. BACKFILL TO 50% DEPTH. WATER
 AND TAMP IN WHILE MAINTAINING
 THE STRAIGHTENED TREE.
- 7. BACKFILL TO 75% DEPTH. <u>WATER</u>
 AND TAMP IN WHILE MAINTAINING
 THE STRAIGHTENED TREE.
- 8. BACKFILL THE REST AND THOROUGHLY WATER IN TREE MAKING SURE THE TRUNK IS DIRECTLY PERPENDICULAR TO THE FINISHED GRADE.

NOTE:

ANY DEVIATION FROM THE ABOVE PROCESS WILL NOT BE CONSIDERED AS PER INDUSTRY STANDARDS AND WILL BE CAUSE FOR REJECTION OF THE WORK.



TREE AND SHRUB SIZING SPECIFICATION

NOT TO SCALE

NOTE:

Know what's **below.**

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

Call before you dig

CALL 48 HOURS

BEFORE YOU DIG

IT'S THE LAW!

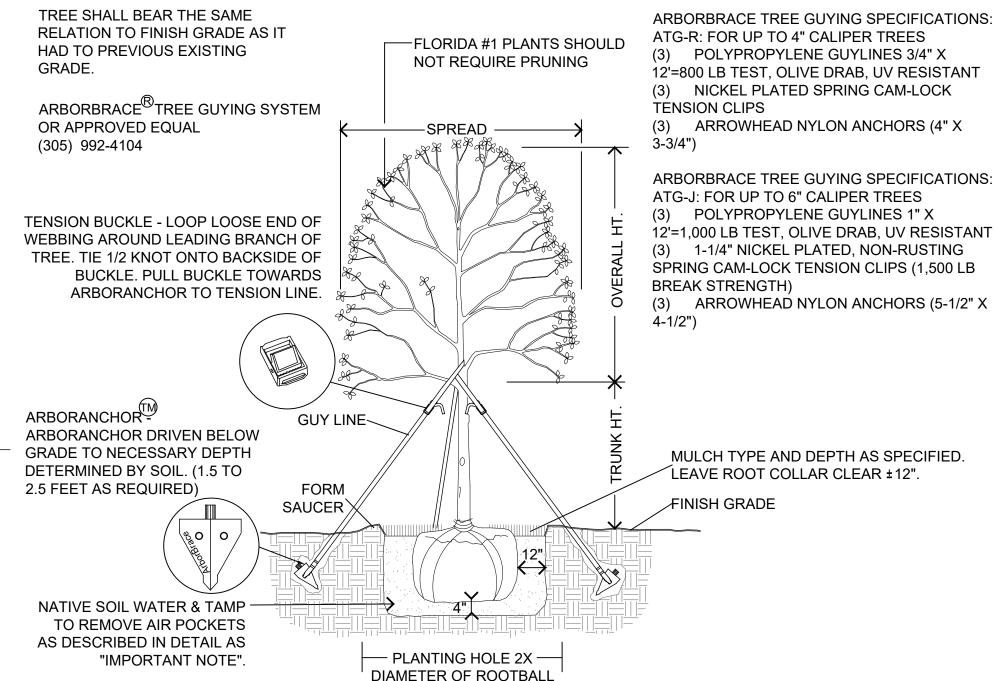
DIAL 811

1. THIS CONTRACT IS SUBJECT TO THE RULES AND REGULATIONS OF GRADES AND STANDARDS FOR NURSERY PLANTS AS PUBLISHED BY THE DIVISION OF PLANT INDUSTRY, FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES.

2. ALL PLANTS NOT LISTED IN GRADES AND STANDARDS FOR NURSERY PLANTS, PUBLISHED BY THE DIVISION OF PLANT INDUSTRY, SHALL CONFORM TO A FLORIDA NO. 1 AS TO: 1. HEALTH AND VITALITY, 2. CONDITION OF FOLIAGE, 3. ROOT SYSTEM, 4. FREEDOM FROM PEST OR MECHANICAL DAMAGE, 5. HEAVILY BRANCHED AND DENSELY FOLIATED ACCORDING TO THE ACCEPTED NORMAL SHAPE OF THE SPECIES OR SPORT.

3. AT THE CONCLUSION OF THIS PLANTING, IF THE LANDSCAPE ARCHITECT OR OWNER HAS REASON TO BELIEVE THAT THE PLANTS ARE NOT OF THE SPECIFIED GRADE, HE WILL REQUEST A REGRADING INSPECTION BY THE DIVISION OF PLANT INDUSTRY, AND SUCH EVIDENCE WILL BE THE BASIS FOR REQUESTING REPLACEMENT OF PLANTS AND FOR LEGAL OR OTHER ACTION TAKEN BY THE DIVISION OF PLANT INDUSTRY ACCORDING TO LAW, SHOULD THIS BECOME NECESSARY.

NOTE: ALL PLANT SIZES INDICATED ARE MINIMUMS. ALL PARTS OF THE SPECIFICATION INCLUDING CALIPER SIZES MUST BE MET AT INSTALLATION.



TREE PLANTING, STAKING AND PRUNING

SITE DEVELOPMENT PLANS FOR:

TOWN CENTER IMPROVEMENTS - OUTDOOR VENUE

TOWN OF LONGBOAT KEY, FL

	PROJECT NO.	2021-27
ı	SCALE	AS NOTED
	DATE	05-03-2021
	DRAWN BY	JA
	ISSUED	05-04-2021

REVISIONS										
NO.	DESCRIPTION		INIT.	NO.	DESCRIPTION	INIT.				
1	REV. PER TLBK	08-16-2021	bpk	**	REVISION 1 - BLDG. COMMENTS & GENERAL REVISIONS 11-02-2022	JL				
2	REV. PER CIVIL	11-02-2021	KJ							
3	REV. PER CIVIL	11-08-2021	KJ							
4	REV. PER CIVIL	03-31-2022	KJ							

PLANTING DETAILS

PHILLIP J. SMITH, R.L.A. #1096



SHEET NO.

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DIVISION 2 - SITE WORK SECTION 0221 FINISH GRADING I. GENERAL 1. SCOPE 1. FURNISH ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO SHAPE, MOLD, AND FINISH GRADE ALL FEATURES OF THE PROJECT. A. INCLUDE ALL KILLING REMOVAL OF VEGETATIVE GROWTH AND HAND WORK NECESSARY TO ESTABLISH FINISH GRADE INCLUDING UNDER ANY EXISTING TREES. B. KILL AND ELIMINATE ANY AND ALL UNWANTED VEGETATIVE GROWTH FROM TOPSOIL AND SUBSOIL BY APPROVED MEANS, AND BEFORE PLANTING. C. CONSTRUCT BERMS TO ELEVATIONS SHOWN, AND PERFORM ALL GRADING, INCLUDING ROUGH GRADING (2" +/-) BEFORE IRRIGATION INSTALLATION, AND FINISHED GRADING PRIOR TO PLANTING. D. LIGHTLY SCARIFY TOPSOIL INTO SURFACE OF SUBGRADE. REMOVE EXTRANEOUS MATTER MEASURING ONE INCH (1") OR LARGER IN ANY DIMENSION. 2. MATERIAL SHALL INCLUDE FILL AND TOPSOIL APPROPRIATELY THROUGHOUT THE PROJECT. II. EXECUTION 1. BERMS AND GRADED AREAS 1. ALL BERMS AND GRADED AREAS SHALL BE BUILT IN ACCORDANCE WITH THE SITE DEVELOPMENT PLANS AND DETAILS. FINISH GRADING OPERATIONS SHALL BRING ALL BERMS AND GRADED AREAS TO A FINAL GRADE POSITION SO AS NOT TO INHIBIT POSITIVE DRAINAGE. 2. THE SITE DEVELOPMENT PLANS SHOW EARTH BERM LOCATIONS. THE CONTRACTOR SHALL SUPPLY SUFFICIENT SECOND CUT CLEAN FILL MATERIAL TO PROVIDE A FINISH GRADE AS REPRESENTED ON THE PLANS. QUANTITIES OF SOIL GIVEN REPRESENT APPROXIMATE FINISH VOLUMES COMPACTED IN PLACE. 3. BERMS SHALL BE SO SHAPED THAT THEIR LINES AND SLOPES WILL BLEND WITH THE SURROUNDING CONTOURS. THE MOUNDS AND VALLEYS OF THE BERMS SHALL BE SCULPTURED INTO SMOOTH UNDULATING SHAPES WITHOUT 'BIRD-BATHS'. 4. IN ORDER TO DEVELOP AESTHETICALLY PLEASING BERMS, THE ARCHITECT RESERVES THE RIGHT TO MAKE MINOR ADJUSTMENTS IN SHAPE AND CONTOURING AT ANY TIME DURING CONSTRUCTION. 5. FINISH GRADING OF BERMS SHALL BE DONE BY A WHEEL TRACTOR AND SHALL INVOLVE THE PUSHING AND BACK-BLADING OF SMALL AMOUNTS OF MATERIAL IN A REPETITIVE OPERATION. 6. UNIFORMLY FINE GRADE AREAS WITHIN GRADING LIMITS INCLUDING TRANSITION AREAS. SMOOTH FINISHED SURFACE WITHIN SPECIFIED TOLERANCE (MINIMUM 3% SLOPE), COMPACT WITH UNIFORM LEVELS OR SLOPES BETWEEN POINTS WHERE ELEVATIONS ARE SHOWN, OR BETWEEN SUCH POINTS AND EXISTING GRADES. OBTAIN APPROVAL OF FINISHED GRADES BEFORE PROCEEDING WITH IRRIGATION, GRASSING AND PLANTING OPERATIONS. ELIMINATE IRREGULARITIES AND PONDING. LEAVE GRADE 1 1/2" BELOW CURB OR WALK. 8. IF PLANTING AND MULCHING IS NOT COMMENCED IMMEDIATELY, PROTECT STOCKPILED OR SPREAD TOPSOIL FROM EROSION BY FORCE OR WIND, WATER, OR OTHER FORCE, RE-ESTABLISH ERODED, RUTTED, OR SETTLED GRADES TO PROPER FINISHED GRADE 9. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR REPAIRING, RE-GRADING, AND RE-SEEDING ANY AREAS COMPLETED BY THE GENERAL CONTRACTOR WHICH ARE DISTURBED BY THE WORK OF THIS CONTRACT 10. THE TILLED AREAS SHALL BE SETTLED, FINE GRADED, AND RAKED TO MEET APPROVED FINISHED GRADE. COARSE SOIL LUMPS, ROCKS, ROOTS, WEEDS AND DEBRIS NOT PASSING THROUGH A HAND RAKE SHALL BE REMOVED FROM THE SURFACE. THE SURFACE SHALL BE SMOOTH, FIRM, AND OF FINE TEXTURE IMMEDIATELY BEFORE SODDING. III. INSPECTION AND APPROVAL 1. ALL FINISH GRADING OPERATIONS SHALL BE SUBJECT TO REGULAR INSPECTIONS BY THE ARCHITECT. BECAUSE THE CONTOURING OF THE PROJECT IS ESSENTIAL TO AN AESTHETICALLY PLEASING DEVELOPMENT THE ARCHITECT MAY MAKE MINOR ALTERATIONS DURING THE FINISH GRADING OPERATIONS. APPROVAL 1. ALL FINISH GRADING OPERATIONS SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT PRIOR TO BEGINNING THE INSTALLATION OF THE IRRIGATION SYSTEM. POSITIVE DRAINAGE IS A FUNCTION OF FINISH GRADING AND WILL BE GUARANTEED BY THE CONTRACTOR. FOLLOWING THE INSTALLATION AND BACKFILLING OF THE IRRIGATION SYSTEM A DRAINAGE CHECK MAY BE CONDUCTED BY NATURAL OR MAN MADE CIRCUMSTANCES. ANY POSITIVE DRAINAGE FAULTS WILL BE CORRECTED AND A NEW FINISH GRADE

DIVISION 2 - SITE WORK SECTION 0270 LANDSCAPE - GENERAL

SATISFACTORY COMPLETION OF THE WORK, SHALL BE FURNISHED AND INSTALLED BY THE CERTIFIED LANDSCAPE CONTRACTOR OR LICENSED IRRIGATION SUBCONTRACTOR. 2. CONTRACTORS SHALL BE RESPONSIBLE FOR SECURING ALL NECESSARY LICENSES AND PERMITS, AND SHALL COMPLY IN ALL WAYS WITH FEDERAL, STATE AND LOCAL CODES.

1. THE WORK EMBRACED UNDER THIS CONTRACT INCLUDES SUPPLYING AND PLACING OF ALL MATERIALS AS LISTED

IN THE SPECIFICATIONS AND ON THE PLANS IN ACCORDANCE WITH SOUND INDUSTRY PRACTICE. ALL LABOR,

EQUIPMENT, TOOLS, PLANT MATERIAL AND MISCELLANEOUS ITEMS CALLED FOR HEREIN OR REQUIRED FOR

II. INVESTIGATION OF SITE:

ESTABLISHED.

END SECTION 2-0221

1. ALL BIDDERS SHALL PERSONALLY EXAMINE THE SITE AND FULLY ACQUAINT THEMSELVES WITH ALL EXISTING CONDITIONS IN ORDER THAT NO MISUNDERSTANDING MAY ARISE AS TO THE CHARACTER OR AS TO THE EXTENT OF THE WORK TO BE DONE; AND LIKEWISE, IN ORDER TO ADVISE AND ACQUAINT THEMSELVES WITH ALL PRECAUTIONS TO BE TAKEN IN ORDER TO AVOID INJURY TO PERSONS AND PROPERTY. 2. THE CONTRACTOR SHALL DETERMINE BY SITE INVESTIGATION ANY NECESSARY WORK NOT SPECIFICALLY CALLED FOR, BUT, NECESSARY TO SATISFACTORILY COMPLETE THE WORK. NO ADDITIONAL COMPENSATION WILL BE GRANTED BECAUSE OF ANY DIFFICULTIES WHICH MAY BE ENCOUNTERED ON THE SITE IN THE EXECUTION OR

MAINTENANCE OF ANY PORTION OF THE WORK IF NOT IDENTIFIED AT THIS TIME. 3. ANY DAMAGES TO UNDERGROUND OR ABOVE GROUND UTILITIES OR TO ANY PROPERTY OF THE OWNER OR OTHER CONTRACTOR SHALL BE REPAIRED OR REPLACED IMMEDIATELY AT THE RESPONSIBLE CONTRACTOR'S EXPENSE. 4. ANY DAMAGE CAUSED TO UNDERGROUND INSTALLATIONS OF ANOTHER CONTRACTOR SHALL BE BACK CHARGED TO

THAT CONTRACTOR IF SUCH INSTALLATIONS ARE NOT LOCATED IN ACCORDANCE WITH PLANS. III. QUALIFICATIONS:

1. ALL LANDSCAPE AND IRRIGATION CONTRACTORS WISHING TO BID THE PROJECT SHALL HAVE A MINIMUM OF FIVE YEARS EXPERIENCE SPECIALIZING IN THIS TYPE OF WORK IN THIS LOCATION AND HAVE ALL APPLICABLE LICENSES. 2. INDIVIDUALS OR CORPORATIONS NOT ABLE TO MEET THIS REQUIREMENT MAY SUBMIT THEIR QUALIFICATIONS TO THE LANDSCAPE ARCHITECT DURING THE BIDDING PERIOD FOR REVIEW AND POSSIBLE QUALIFICATION.

IV PERFORMANCE STANDARDS:

1. ALL WORK SHALL BE PERFORMED BY COMPETENT AND SKILLED CRAFTSMEN. LABOR CREWS SHALL BE UNDER THE DIRECT CONTROL OF A SINGLE FOREMAN DESIGNATED AT THE BEGINNING OF THE WORK AND SKILLED IN READING BLUEPRINTS AND COORDINATION BETWEEN OFFICE AND JOB. WHILE LABOR CREWS MAY CHANGE. THE SAME FOREMAN WILL BE IN CHARGE THROUGHOUT THE JOB. CONTRACTOR SHALL REVIEW PLANS THROUGHOUT THE JOB. CONTRACTOR SHALL REVIEW PLANS AND SPECIFICATIONS WITH THE JOB FOREMAN TO INSURE COMPLETE UNDERSTANDING OF THE PROJECT.

2. TOOLS SHALL NOT BE LEFT ON THE JOB SITE IN AN UNSAFE OR UNPROTECTED CONDITION 3. ALL OPEN EXCAVATIONS SHALL BE PROPERLY BARRICADED AND LIGHTED AT NIGHT.

4. THE CONTRACTOR SHALL AT ALL TIMES KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIAL SOIL, AND/OR RUBBISH CAUSED BY HIS EMPLOYEES OR WORK. THE CONTRACTOR SHALL CLEAN BEHIND HIS WORK IMMEDIATELY AND SHALL TAKE NECESSARY PRECAUTIONS TO KEEP CONCRETE, BRICK AND OTHER PAVING MATERIAL CLEAN OF SOIL. THIS SHALL INCLUDE THE USE OF DROP-CLOTHS, ETC. DAMAGE TO GRADES OR LAWNS

SHALL BE REPAIRED IMMEDIATELY AND ALL DEBRIS AND EXCESS SOIL REMOVED BY RAKING. 5. ALL STAKING AND LAYOUT OF PHYSICAL FEATURES SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT BEFORE CONSTRUCTION OR PLANTING IS STARTED. THE SAME SHALL APPLY TO THE ESTABLISHMENT OF PROPER GRADES AND LEVELS. ALL PLANTING BEDS SHALL BE ACCURATELY STAKED, SPRAYED OR FLAGGED IN ACCORDANCE WITH THE PLANS. CHANGES NECESSITATED BY BUILDING CHANGES, ETC., SHALL BE IN KEEPING WITH THE OVERALL CONCEPTS OF THE DESIGN. ANY BEDS DEVELOPED WITHOUT THE APPROVAL OF THE ARCHITECT SHALL, IF THEY DO NOT ACCURATELY REPRESENT THE PLAN AND/OR THE DESIGN CONCEPT, BE REDEVELOPED WITHOUT

ADDITIONAL EXPENSE TO THE OWNER. 6. MATERIAL SUCH AS GROUND COVERS, MULCH OR GRAVEL SHALL BE SPREAD IN THE SPECIFIED QUANTITY TO COVER THE AREA DESIGNED. NO ADDITIONAL MATERIALS SHALL BE USED IN SUCH AREAS WITHOUT THE

APPROVAL OF THE ARCHITECT AND/OR OWNER. 7. THE CONTRACTOR SHALL IN GOOD WORKMANLIKE MANNER, DO AND PERFORM ALL WORK AND FURNISH ALL SUPPLIES AND MATERIALS, MACHINERY, EQUIPMENT, FACILITIES AND MEANS, EXCEPT AS OTHERWISE EXPRESSLY SPECIFIED HEREIN, NECESSARY OR PROPER TO PERFORM AND COMPLETE ALL THE WORK REQUIRED BY THIS CONTRACT, WITHIN THE TIME SPECIFIED HEREIN, IN ACCORDANCE WITH THE PROVISIONS OF THIS CONTRACT AND SAID SPECIFICATIONS AND IN ACCORDANCE WITH THE PLANS, AND IN ACCORDANCE WITH THE DIRECTIONS OF THE ARCHITECT AS GIVEN FROM TIME TO TIME DURING THE PROGRESS OF THE WORK.

END OF SECTION 2-0270

DIVISION 2 - SITE WORK SECTION 0280 LANDSCAPE DEVELOPMENT

1. STAKING AND LAYOUT: ALL STAKING AND LAYOUT OF PHYSICAL FEATURES SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT BEFORE CONSTRUCTION OF PLANTING IS STARTED. THE SAME SHALL APPLY TO THE ESTABLISHMENT OF PROPER GRADES AND LEVELS. ALL PLANTING BEDS SHALL BE ACCURATELY STAKED, SPRAYED OR FLAGGED IN ACCORDANCE WITH THE PLANS. CHANGES NECESSITATED BY BUILDING CHANGES, ETC., SHALL BE IN KEEPING WITH THE OVERALL CONCEPTS OF THE DESIGN. ANY BEDS DEVELOPED WITHOUT THE APPROVAL OF THE LANDSCAPE ARCHITECT SHALL, IF THEY DO NOT ACCURATELY REPRESENT THE PLAN AND/OR THE DESIGN CONCEPT, BE RE-DEVELOPED WITHOUT ADDITIONAL EXPENSE TO THE OWNER.

2. COMMENCEMENT OF WORK: WORK UNDER THIS CONTRACT SHALL COMMENCE NOT LESS THAN TEN (10) DAYS AFTER NOTICE TO PROCEED AND SHALL BE COMPLETE IN AN ORDERLY BUSINESS LIKE FASHION. ONCE WORK IS BEGUN IT SHALL CONTINUE ON CONSECUTIVE WORKING DAYS UNTIL WORK IS COMPLETED. SUNDAYS, SATURDAYS, HOLIDAYS AND STOPPAGES DUE TO FOUL WEATHER OR DELAYS CAUSED BY THE OWNER OR BUILDING CONTRACTOR SHALL BE EXCLUDED. UNNECESSARY DELAYS IN WORK MAY RESULT IN FORFEITURE OF PERFORMANCE BOND WHEN REQUIRED. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT IN WRITING, OF ANY STOPPAGES IN WORK DUE TO CIRCUMSTANCES BEYOND HIS

CONTROL AND TO STATE THE TIME DURATION OF SUCH STOPPAGE. 3. MAINTENANCE: THE CONTRACTOR IS ENTIRELY RESPONSIBLE FOR THE WORK UNTIL FINAL ACCEPTANCE. ONCE MATERIAL IS PLANTED, IT SHALL RECEIVE WATER EACH DAY FROM TIME OF PLANTING UNTIL FINAL INSPECTION -NOT TO INCLUDE SUNDAYS. WATERING SHALL BE DONE IN ACCORDANCE WITH SOUND NURSERY PRACTICE WATER SHALL BE SUPPLIED BY THE OWNER, HOSES, ETC. BY THE CONTRACTOR, UNLESS OTHERWISE SPECIFIED FOR SPECIFIC JOB CONDITIONS. MAINTENANCE OF TURF AREAS SHALL ALSO INCLUDE MOWING TO MAINTAIN A HEALTHY CONDITION AND FOR AESTHETIC PURPOSES

4. COORDINATION OF WORK: THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE COORDINATION OF PLANTING OPERATIONS WITH THE OTHER CONTRACTORS ON THE JOB. REPAIR OF DAMAGE TO PLANTS, GRADES, LAWNS, ETC., DURING INSTALLATION SHALL NOT BE CONSIDERED AS AN EXTRA, AND SHALL NOT BE CHARGEABLE TO THE OWNER. DAMAGE CAUSED BY OTHER CONTRACTORS WILL BE THE RESPONSIBILITY OF SAID CONTRACTORS.

5. RIGHT TO REJECT: THE OWNER SHALL HAVE THE RIGHT, AT ANY STAGE OF THE WORK, TO REJECT ANY AND ALL WORK AND MATERIALS WHICH, IN HIS OPINION, MAY NOT MEET THE REQUIREMENTS OF THESE SPECIFICATIONS. REJECTED MATERIAL SHALL BE IMMEDIATELY REMOVED FROM THE SITE AND ACCEPTABLE MATERIAL SUBSTITUTED

6. UNDERGROUND DEBRIS: SHOULD ANY OBJECTIONABLE MATERIAL SUCH AS CONCRETE, BRICKS, ROOTS OR OTHER DEBRIS BE ENCOUNTERED DURING LANDSCAPE INSTALLATION, THEY SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR. ALL OPEN EXCAVATIONS SHALL BE PROPERLY BARRICADED. AND LIGHTED AT NIGHT. 7. ALL PLANT MATERIAL FURNISHED BY THE CONTRACTOR, UNLESS OTHERWISE SPECIFIED, SHALL BE FLORIDA #1 OR

BETTER IN ACCORDANCE WITH GRADES AND STANDARDS FOR NURSERY PLANTS. STATE PLANT BOARD OF FLORIDA. THE LANDSCAPE ARCHITECT RESERVES ALL RIGHTS TO DETERMINE ACCEPTABILITY OF PLANT MATERIAL SUBMITTED FOR PLANTING. 8. SUBSTITUTIONS: SUBSTITUTIONS WILL BE PERMITTED ONLY UPON SUBMISSION OF SUFFICIENT PROOF THAT ANY PLANT IS NOT OBTAINABLE AND UPON AUTHORIZATION OF THE LANDSCAPE ARCHITECT. UNDER NO

CIRCUMSTANCES SHALL UNAUTHORIZED SUBSTITUTIONS BE INCLUDED IN THE BID PROPOSAL AND BREAKDOWN. 9. CLEAN-UP: THE CONTRACTOR SHALL AT ALL TIMES KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIAL, SOIL, AND/OR RUBBISH CAUSED BY HIS EMPLOYEES OR WORK. CONTRACTOR SHALL CLEAN BEHIND HIS WORK IMMEDIATELY AND SHALL TAKE NECESSARY PRECAUTIONS TO KEEP CONCRETE, BRICK AND OTHER PAVING MATERIAL CLEAN OF SOIL. THIS SHALL INCLUDE THE USE OF DROP-CLOTHS, ETC. DAMAGE TO GRADES OR LAWNS SHALL BE REPAIRED IMMEDIATELY AND ALL DEBRIS AND EXCESS SOIL REMOVED. SHOULD THE CONTRACTOR FAIL TO KEEP THE PREMISES IN A CLEAN SATISFACTORY CONDITION, THE OWNER RESERVES THE RIGHT TO HIRE APPROPRIATE PERSONNEL TO PERFORM CLEAN-UP WORK AND BACK CHARGE THE CONTRACTOR FOR ALL COSTS

INCURRED. 10. ABBREVIATIONS:

C.W. CLEAR WOOD CLEAR TRUNK CLUMP (S) DOUBLE OVER ALL (HEIGHT & WIDTH THE SAME) O.A. O.A.H OVER ALL HEIGHT SPREAD STEMS STAGGERED HEIGHTS STG. HTS. HD. (S) HEAD (S) STANDARD FAN ON WALL FAN ON FENCE TRUNKS ESPALIER ROOTED CUTTINGS UN-ROOTED CUTTINGS ON CENTER

* NOTE:(F.O.W. & F.O.F) FAN ON WALL AND FAN ON FENCE SHALL MEAN PROVIDING ALL NECESSARY HOOKS, MASONRY PLUGS, ETC., AND TYING AS REQUIRED TO BEGIN ESPALIER OF PLANTS SPECIFIED.

1. COMPLETION OF THE WORK SHALL MEAN THE FULL AND EXACT COMPLIANCE AND CONFORMITY WITH THE PROVISIONS EXPRESSED OR IMPLIED IN THE DRAWINGS AND SPECIFICATIONS, AND ASSOCIATED CHANGE ORDER AS APPROVED BY THE LANDSCAPE ARCHITECT. 2. FINAL INSPECTION SHALL BE MADE BY THE LANDSCAPE ARCHITECT AT THE REQUEST OF THE CONTRACTOR, AND

SHALL BE PRIOR TO FINAL REQUEST FOR PAYMENT. ALL REQUIREMENTS OF THE SPECIFICATIONS SHALL APPLY UNTIL FINAL ACCEPTANCE OF THE WORK BY THE OWNER OR HIS REPRESENTATIVE. 3. THE ACCEPTABILITY OF ALL 3. THE ACCEPTABILITY OF ALL MATERIAL, WORKMANSHIP, LABOR AND COMPLIANCE WITH THE SPECIFICATIONS, GRADES AND STANDARDS SHALL BE SOLELY DETERMINED BY THE LANDSCAPE ARCHITECT. LANDSCAPE ARCHITECT WILL PROVIDE WRITTEN NOTIFICATION TO THE CONTRACTOR AND OWNER OF ANY MATERIAL AND / OR WORKMANSHIP THAT IS BELIEVED TO BE AT A LEVEL OF QUALITY AND / OR PERFORMANCE BELOW THAT WHICH WAS SPECIFIED WITHIN THE CONTRACT DOCUMENTS.

12. GENERAL GUARANTY: NEITHER THE FINAL CERTIFICATE OF PAYMENT NOR ANY PROVISION OF THE CONTRACT DOCUMENTS NOR PARTIAL OR ENTIRE OCCUPANCY OF THE PREMISES BY THE OWNER SHALL CONSTITUTE AN ACCEPTANCE OF WORK NOT DONE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR RELIEVE THE CONTRACTOR OF LIABILITY IN RESPECT TO ANY EXPRESS WARRANTIES OR RESPONSIBILITY FOR FAULTY MATERIAL AND/OR WORKMANSHIP. THE CONTRACTOR SHALL REMEDY ANY DEFECTS IN THE WORK AND PAY FOR ANY DAMAGE TO OTHER WORK RESULTING THEREFROM WHICH SHALL APPEAR WITHIN A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK UNLESS A LONGER PERIOD IS SPECIFIED. THE GUARANTY PERIOD SHALL COMMENCE AT SUCH TIME AS THE LANDSCAPE ARCHITECT CERTIFIES THAT THE PROJECT HAS BEEN COMPLETED IN SUBSTANTIAL COMPLIANCE WITH THE CONTRACT DOCUMENTS. IN CERTAIN INSTANCES LIMITED, DEFINED AREAS OF THE PROJECT MAY BE RELEASED BY THE LANDSCAPE ARCHITECT FOR MAINTENANCE PURPOSES ONLY AND/OR FOR COMMENCEMENT OF THE GUARANTY PERIOD. SUCH PARTIAL RELEASES SHALL BE AT THE SOLE DISCRETION OF THE LANDSCAPE ARCHITECT.

RESPONSIBILITIES OF THE OWNER THROUGHOUT THE GUARANTY PERIOD SHALL BE AS FOLLOWS: 1. MAINTAIN A REGULAR INSPECTION SCHEDULE OF ALL MATERIALS AND WORKMANSHIP INCLUDED WITHIN THE

SCOPE OF THE CONTRACTED WORK. 2. ESTABLISH NORMAL, REGULARLY SCHEDULED MAINTENANCE PROCEDURES FOR ALL AREAS OF WORK

UNDERTAKEN BY THE CONTRACTOR. SUCH MAINTENANCE PROCEDURES AND FREQUENCY SHALL BE IN KEEPING

WITH NORMAL INDUSTRY STANDARDS FOR THE SCOPE AND NATURE OF THE WORK INVOLVED. 3. MAINTAIN A WRITTEN RECORD OF THE MAINTENANCE PROCEDURES UNDERTAKEN INCLUDING THE FREQUENCY OF

ALL MAINTENANCE PERFORMED, RECORD OF PROBLEMS ENCOUNTERED AND SOLUTIONS. 4. MONITOR ALL PLANT MATERIALS FOR PROPER SOIL MOISTURE CONTENT AND THE UNIFORMITY OF WATER APPLICATION OVER TIME. AS COMPENSATED FOR SEASONAL VARIATION AND LOCAL CLIMATE. APPLY LOCALIZED HAND WATERING AS NECESSARY TO ENSURE PROPER MOISTURE LEVELS FOR THE ESTABLISHMENT OF LARGER PLANT MATERIALS AND PLANTS IN UNIQUE MICRO-ENVIRONMENTS.

5. PROVIDE WRITTEN NOTIFICATION TO THE CONTRACTOR AND THE LANDSCAPE ARCHITECT OF ANY MATERIAL AND/OR WORKMANSHIP THAT IS BELIEVED TO BE AT A LEVEL OF QUALITY AND/OR PERFORMANCE BELOW THAT WHICH WAS SPECIFIED WITHIN THE CONTRACT DOCUMENTS AND SUBJECT TO THE CONTRACTOR'S GUARANTY. SUCH NOTICE SHALL BE DELIVERED TO THE CONTRACTOR AND THE LANDSCAPE ARCHITECT VIA MAIL TO THEIR LAST KNOWN ADDRESS.

RESPONSIBILITIES OF THE CONTRACTOR THROUGHOUT THE GUARANTY PERIOD SHALL INCLUDE THE FOLLOWING: 1. PRIOR TO FINAL ACCEPTANCE, THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A WRITTEN MAINTENANCE SCHEDULE WHICH ADDRESSES ALL ASPECTS OF THE WORK SCOPE AS COMPLETED UNDER THIS CONTRACT.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE OF ALL ITEMS WITHIN THE WORK SCOPE FOR THE ENTIRE COURSE OF THE CONTRACT UNLESS SPECIFICALLY NOTED OTHERWISE WITHIN THE CONTRACTOR

DOCUMENTS 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTING THE PROJECT SITE AT REGULAR INTERVALS DURING THE GUARANTY PERIOD. THE FREQUENCY OF SUCH INSPECTIONS SHALL BE AT THE DISCRETION OF THE CONTRACTOR; HOWEVER, THE FREQUENCY SHALL BE SUCH THAT THE CONTRACTOR IS SATISFIED THAT HE CAN PERCEIVE POTENTIAL MAINTENANCE CONCERNS, NOTIFY THE OWNER AND PROTECT HIS INTERESTS IN THE GUARANTY OF MATERIALS AND WORKMANSHIP.

4. FAILURE OF THE CONTRACTOR TO COMPLY WITH ANY OF THE ABOVE CONTRACTOR RESPONSIBILITIES SHALL BE CONSIDERED AS HIS ACCEPTANCE OF ALL MAINTENANCE SCHEDULES AND PROCEDURES AS BEING PERFORMED BY THE OWNER AND THE CONTRACTOR SHALL THEREBY FORFEIT HIS RIGHT TO DISPUTE ANY QUESTION ARISING AS TO GUARANTY OF SPECIFIC MATERIALS AND/OR WORKMANSHIP

5. ALL PLANT MATERIALS SHALL BE GUARANTEED TO BE ALIVE AND IN SATISFACTORY GROWTH, FLORIDA #1 GRADE OR BETTER, AS TO THEIR SPECIES, AT THE END OF THE GUARANTY PERIOD.

6. GUARANTY PERIODS FOR PLANT MATERIALS SHALL BE AS FOLLOWS: GROUND COVERS & VINES - 12 MONTHS

SHRUBS -12 MONTHS PALMS - 12 MONTHS

TREES (INCLUDING MYRICA SPP.) - 12 MONTHS

7. AT ANY TIME DURING THE GUARANTY PERIOD THE CONTRACTOR SHALL BE NOTIFIED IN WRITING AND REQUIRED TO REPLACE ALL PLANTS THAT ARE DEAD OR IN AN UNSATISFACTORY CONDITION OF GROWTH. ALL REPLACEMENTS AND RELATED REPLACEMENT COSTS SHALL BE AT THE CONTRACTOR'S EXPENSE, SHALL BE OF A LIKE SIZE AND KIND OF THE PLANTS AS ORIGINALLY SPECIFIED AND/OR REMOVED, AND, SHALL BE GUARANTEED FOR AN ADDITIONAL PERIOD OF TIME IN COMPLIANCE WITH THE ABOVE STATED GUARANTY PERIODS.

13. ACTS OF GOD: ANY PLANT MATERIALS PROVIDED AND INSTALLED OR MATERIALS WHICH HAVE BEEN: PLANTED AND DAMAGED OR DESTROYED BY ANY PHENOMENA CONSIDERED AS AN ACT OF GOD, IE., HURRICANE WINDS, FIRE, FLOOD, FREEZE, RAIN, HAIL, ETC. SHALL, ACCORDING TO THE FLORIDA LAW, BELONG TO THE OWNER AND SHALL BE HIS RESPONSIBILITY. ANY MATERIALS WHICH HAVE BEEN PROVIDED AND INSTALLED OR PLANT MATERIALS WHICH HAVE BEEN PLANTED AND DAMAGED OR DESTROYED BY ACTS OF THEFT, VANDALISM OR TERRORISM SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER. MATERIALS STORED ON-SITE AS YET NOT PLANTED ARE NOT COVERED BY THIS CLAUSE AND ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

DIVISION 2 - SITE WORK TOPSOIL AND FERTILIZERS

GENERAL

1. TOPSOIL TOPSOIL IS DEFINED AS 95% SAND WITH NOT MORE THAN 2% CLAY AND THE BALANCE LOAM MATERIAL. SAND IS DEFINED AS MATERIAL WHICH PASSES THROUGH NUMBER 270 AND NUMBER 10 SIEVE. TOPSOIL SHALL BE FREE FROM HARD CLODS, STIFF CLAY, HARDPAN, SODS, LARGE STONES, LIME, CEMENT, BRICKS, COAL ASHES, CINDERS, SLAG, CONCRETE, TAR OR ITS RESIDUE, TARRED PAPER, BOARDS, CLIPS, STICKS OR OTHER OBJECTIONABLE MATERIAL. TOPSOIL SHALL CONTAIN NO MORE THAN 5% LOAM OR SILT AND SHALL BE WEED FREE. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING PERCOLATION TO DETERMINE PERCOLATION RATES FOR AREAS OF THE SITE TO RECEIVE LANDSCAPING, IE., BEDS, HEDGE ROWS AND ALL TREE LOCATIONS LESS THAN 6" PER HOUR THE DRAINAGE CONTAINER SHALL INSTALL SUMPS TO PROVIDE DRAINAGE AT 6" PER HOUR SUMPS SHALL BE A MINIMUM OF 8" IN DIAMETER, SHALL BE 36" DEEP OR BREAK THROUGH CONFORMING LAYER WHICH EVER IS GREATER AND BACKFILLED WITH CLEAN BUILDERS SAND.

2. ROUGH GRADES TO BE FURNISHED BY OTHERS SHALL BE ASCERTAINED BY SITE INSPECTION PRIOR TO BIDDING.

II. MATERIALS

1. PEAT MOSS - PEAT MOSS SHALL CONSIST OF COARSE, PARTIALLY DECOMPOSED VEGETABLE MATTER OF NATURAL OCCURRENCE. IT SHALL BE MEDIUM BROWN IN COLOR, CLEAN, LOW IN CONTENT OF MINERAL AND WOODY MATERIAL, AND MILDLY ACID, AND SHALL BE SHREDDED AND FREE FROM ALL STONES AND TWIGS.

2. SAND - CLEAN, COARSE, UNGRADED, MEETING ASTM C33-55 REQUIREMENT FOR CONCRETE SAND.

3. BONEMEAL - COMMERCIAL BONEMEAL SHALL BE FINELY GROUND AND HAVE A MINIMUM ANALYSIS OF 4% NITROGEN AND 20% PHOSPHORIC ACID.

4. NATURAL ORGANIC FERTILIZER - SHALL BE A COMMERCIALLY NATURAL ORGANIC FERTILIZER 6-3-0 (ACTIVE SLUDGE), SUCH AS MILORGANITE, PRODUCED BY THE SEWERAGE COMMISSION, MILWAUKEE, WISCONSIN. 5. FERTILIZER AND LIME MATERIALS 1. FERTILIZERS: ALL FERTILIZERS SHALL BE UNIFORM IN COMPOSITION FREE FLOWING AND SUITABLE FOR APPLICATION

BY MECHANICAL SPREADER EQUIPMENT. FERTILIZERS SHALL BE DELIVERED TO THE SITE FULLY LABELED ACCORDING TO APPLICABLE STATE FERTILIZER LAWS. THE FOLLOWING INFORMATION SHALL BE SHOWN ON THE FERTILIZER BAG OR PACKAGE OR ON A TAG:

1. NAME AND ADDRESS OF MANUFACTURER.

2. NAME, BRAND OR TRADE MARK 3. NUMBER OF NET POUNDS OF READY MIXED MATERIAL IN THE PACKAGE.

4. CHEMICAL COMPOSITION OR ANALYSIS. 5. GUARANTEE OF ANALYSIS.

IF A BRAND OR GRADE OF FERTILIZER IS DELIVERED IN THE BULK, A WRITTEN STATEMENT HAVING THE ABOVE LISTED INFORMATION MUST ACCOMPANY EACH LOAD.

2. CUSTOM MIXED FERTILIZERS SHALL HAVE A WRITTEN STATEMENT CONTAINING THE FOLLOWING INFORMATION WITH

1. WEIGHT OF EACH COMMERCIAL FERTILIZER USED IN THE CUSTOM MIXING. 2. THE GUARANTEED ANALYSIS OF EACH COMMERCIAL FERTILIZER USED IN THE CUSTOM MIXING.

3. TOTAL WEIGHT OF FERTILIZER DELIVERED IN EACH LOAD 4. THE MANUFACTURER OF EACH OF THE COMMERCIAL FERTILIZERS.

5. GUARANTEED ANALYSIS OF EACH LOAD TO BE STATED AS FOLLOWS: 1. % OF TOTAL NITROGEN.

2. % OF TOTAL AVAILABLE PHOSPHORIC ACID. 3. % OF TOTAL SOLUBLE POTASH.

6. NAME AND ADDRESS OF THE PERSON SELLING THE FERTILIZER. 3. FERTILIZER APPLICATION RATES SHALL BE DETERMINED BY SOIL TEST (UNDER UNUSUAL CIRCUMSTANCES WHERE THERE IS INSUFFICIENT TIME FOR A COMPLETE SOIL TEST, 30 POUNDS MILORGANITE FERTILIZER PER 1000 SQ. FT. CAN

BE APPLIED.) SHALL BE DISTRIBUTED EVENLY OVER THE AREA TO BE SODDED. 4. LIME: LIME MATERIAL SHALL BE GROUND LIMESTONE (HYDRATED OR BURNT LIME MAY BE SUBSTITUTED) WHICH CONTAINS AT LEAST 50% TOTAL OXIDES (CALCIUM OXIDE PLUS MAGNESIUM OXIDE). GROUND LIMESTONE SHALL BE GROUND TO SUCH FINENESS THAT AT LEAST 50% WILL PASS THROUGH A 100-MESH SIEVE AND 98% TO 100% WILL

1. APPLICATION RATES FOR LIMING MATERIALS SHALL BE DETERMINED BY SOIL TESTS. (UNDER UNUSUAL CIRCUMSTANCES WHERE THERE IS INSUFFICIENT TIME FOR A COMPLETE SOIL TEST, LIME SHALL BE APPLIED AT A MINIMUM RATE OF 50 POUNDS OF GROUND LIMESTONE OF ITS EQUIVALENT PER 1000 SQ. FT.). LIME SHALL BE DISTRIBUTED UNIFORMLY OVER THE ENTIRE AREA TO BE SODDED.

5. PH OF ALL TOPSOIL SHALL BE BETWEEN 5.0 AND 6.5. A SOIL ANALYSIS SHALL BE SUPPLIED BY THE CONTRACTOR INDICATING PH AND NECESSARY TO AMEND SOIL TO PROPER PH.

III. EXECUTION

1. TOPSOIL SHALL BE PLACED IN ALL PLANTING PITS SIX INCHES (6") BELOW AND TO THE SIDE OF PLANT ROOT SYSTEM. 2. ALL FERTILIZERS AND SOIL AMENDMENTS SHALL BE SPREAD PRIOR TO BEGINNING WORK UNDER PARAGRAPH 3 BELOW. 3. LAWN AREAS - IN THOSE INSTANCES THAT TOPSOIL IS CALLED ON THE DRAWINGS IN LAWN AREAS IT SHALL BE PLACED FOUR INCHES (4") DEEP AND DICED OR ROTO-TILLED AN ADDITIONAL FOUR INCHES (4") INTO THE EXISTING GRADE . A SMOOTH TRACTOR BLADE FINISH PLUS ONE INCH (1") BELOW SOD FINISH GRADE SHALL THEN BE ESTABLISHED.

END SECTION 2-0281

DIVISION 2 - SITE WORK SECTION 0282 LAWNS

 SCOPE: PERFORM ALL WORK NECESSARY FOR INSTALLING SOD AND/OR SEED AS SHOWN ON THE DRAWINGS OR INFERRIBLE THEREFROM AND/OR AS SPECIFIED, IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. 2. QUALIFICATIONS: LAWN SODDING AND RELATED WORK SHALL BE PERFORMED BY A FIRM WITH A MINIMUM OF THREE

YEARS (3) EXPERIENCE SPECIALIZING IN THIS TYPE OF WORK. 3. COMPLIANCE WITH REGULATIONS: COMPLY WITH ALL FEDERAL AND/OR STATE REGULATIONS CONCERNING CLASSIFICATION OR TRANSPORTATION OF SOD AND FERTILIZER MATERIALS.

4. SOIL STERILANTS: NO SOD OR SEED SHALL BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS UNTIL SUFFICIENT TIME HAS ELAPSED TO PERMIT DISSIPATION OF TOXIC MATERIALS. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY LOSS OR DAMAGE TO SOD OR SEED ARISING FROM IMPROPER USE OF STERILANTS OR DUE TO HIS FAILURE TO ALLOW SUFFICIENT TIME TO PERMIT DISSIPATION OF TOXIC MATERIALS, WHETHER OR NOT SUCH STERILANTS ARE SPECIFIED HEREIN.

II. MATERIALS

1 CLASS OF SOD AND COMPOSITION: THE SOD USED SHALL BE 97% WEED FREE. IT SHALL BE NURSERY GROWN AND WELL ROOTED. SOD SHALL BE SUBJECT TO REVIEW BY THE ARCHITECT PRIOR TO BEING CUT AND AGAIN BEFORE IT IS LAID. THE CONSISTENCY OF ADHERENT SOIL SHALL BE SUCH THAT IT WILL NOT BREAK, CRUMBLE, OR TEAR DURING HANDLING AND PLACING OF THE SOD.

1. EACH PIECE OF SOD SHALL BE WELL COVERED WITH TURF GRASS, SHALL BE FREE FROM NOXIOUS WEEDS AND OTHER OBJECTIONABLE PLANTS AND SHALL NOT CONTAIN SUBSTANCES INJURIOUS TO GROWTH. THE GRASS SHALL BE MOWN TO A LENGTH OF NO LESS THAN ONE AND ONE-HALF INCHES (1 1/2") NOR MORE THAN FOUR INCHES (4") BEFORE THE

2. ALL SOD USED SHALL COMPLY WITH STATE AND FEDERAL LAWS WITH RESPECT TO INSPECTION FOR PLANT DISEASES AND INSECT INFESTATION. AN INSPECTION CERTIFICATE, REQUIRED BY LAW TO THIS EFFECT, SHALL ACCOMPANY EACH SHIPMENT, AND ON ARRIVAL SHALL BE FILED WITH THE ARCHITECT. 3. SOIL OF THE SOD TO BE USED SHALL BE LOAMY SAND AND COMPATIBLE WITH THE SOILS OF THE PROJECT. NO MUCK OR HEAVY PEAT SOIL GROWN SOD WILL BE ACCEPTED.

THICKNESS OF CUT: SOD SHALL BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF THREE-FOURTHS INCH (3/4"), PLUS OR MINUS ONE-FOURTH INCH (1/4"), AT THE TIME OF CUTTING. MEASUREMENT FOR THICKNESS SHALL EXCLUDE TOP GROWTH AND THATCH.

3. PAD-SIZE: INDIVIDUAL PIECES OF SOD SHALL BE CUT TO THE SUPPLIER'S STANDARD WIDTH AND LENGTH. MAXIMUM ALLOWABLE DEVIATION FROM STANDARD WIDTHS AND LENGTHS SHALL BE FIVE PERCENT (5%). BROKEN PADS AND TORN OR UNEVEN ENDS WILL NOT BE ACCEPTABLE.

4. STRENGTH OF SOD SECTIONS: STANDARD SIZE SECTIONS OF SOD SHALL BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED VERTICALLY FROM A FIRM GRASP ON THE UPPER TEN PERCENT (10%) OF THE SECTION.

MOISTURE CONTENT: SOD SHALL NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY OR WET) MAY ADVERSELY AFFECT ITS SURVIVAL.

S. TIME LIMITATIONS: SOD SHALL BE HARVESTED. DELIVERED AND INSTALLED WITHIN A PERIOD OF FORTY EIGHT (48) HOURS. SOD NOT TRANSPLANTED WITHIN THIS PERIOD SHALL BE INSPECTED PRIOR TO ITS INSTALLATION.

1. SEED SHALL BE SCARIFIED ARGENTINE BAHIA GRASS. IT SHALL BE DOMESTICALLY GROWN AND COMPLY WITH CURRENT STATE AND FEDERAL REGULATIONS PURITY.

2. ALL SEED SHALL BE DELIVERED TO THE JOB SITE IN SACKS PLAINLY MARKED AND CERTIFIED AS TO CONTENT. 3. GERMINATION RATE OF ALL SEED SHALL BE NOT LESS THAN SIXTY-FIVE PERCENT (65%) AND NO SEED WITH AN EXCESS OF FIVE PERCENT (5%) WEED SEED SHALL BE USED.

1. CLEAN UP: PRIOR TO SEEDING OR SODDING, THE SURFACE SHALL BE CLEARED OF ALL TRASH, DEBRIS AND STONES LARGER THAN ONE INCH (1") IN DIAMETER, AND OF ALL ROOTS, BRUSH, WIRE, GRADE STAKES AND OTHER OBJECTS THAT WOULD INTERFERE WITH PLANTING OR MAINTENANCE OPERATIONS.

THE CONTRACTOR SHALL VERIFY GRADES ESTABLISHED DURING FINAL SOIL PREPARATION AS BEING TRUE TO FINISH CONTOURS SHOWN, AND SHALL MAINTAIN SUCH AREAS UNTIL THE EFFECTIVE DATE TO BEGIN SODDING AND/OR SEEDING OPERATIONS. IN SUCH INSTANCES WHERE A SPLIT RESPONSIBILITY EXISTS BETWEEN GRADING AND GRASSING CONTRACTORS, IT SHALL BE THE RESPONSIBILITY OF THE GRASSING CONTRACTOR TO MAINTAIN A SUITABLE GRADE FOR GRASSING ONCE HE HAS ACCEPTED THE GRADE PROVIDED TO HIM.

IN ALL CASES THE GROUND SHALL BE HAND RAKED IMMEDIATELY PRIOR TO BEING SODDED TO REMOVE ANY IRREGULARITIES IN THE GRADE.

SODDING OPERATIONS:

1. SODDING TIME: SOD SHALL BE PLACED WHEN THE GROUND IS IN A WORKABLE CONDITION AND TEMPERATURES ARE LESS THAN NINETY DEGREES (90) FAHRENHEIT. SOD SHALL NOT BE PLACED DURING EXTENDED DROUGHT, UNLESS IRRIGATION IS AVAILABLE

2. TRANSPORTATION: SOD SHALL BE IN A MOIST CONDITION AT THE TIME OF CUTTING AND SHALL BE KEPT IN A MOIST CONDITION UNTIL IT IS PLACED. ANY SOD THAT HAS DRIED OUT WILL BE REJECTED AND SHALL BE IMMEDIATELY REMOVED FROM THE JOB SITE BY THE CONTRACTOR. ALL SOD SHALL BE TRANSPORTED IN EITHER A CLOSED VAN OR IN OPEN TRUCK PROPERLY COVERED. SOD CUT FOR MORE THAN FORTY-EIGHT (48) HOURS SHALL NOT BE USED WITHOUT THE CONCURRENCE OF THE ARCHITECT. ALL SOD SHALL BE KEPT MOIST AND PROTECTED FROM EXPOSURE TO SUN, WIND AND FREEZING PRIOR TO PLACING

3. MISTING THE SOIL: DURING PERIODS OF HIGH TEMPERATURE AND AFTER ALL UNEVENNESS IN THE SOIL SURFACE HAS BEEN CORRECTED, THE SOIL SHALL BE LIGHTLY IRRIGATED IMMEDIATELY PRIOR TO LAYING THE SOD.

4. STARTER STRIP: THE FIRST ROW OF SOD SHALL BE LAID IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO AND TIGHTLY AGAINST EACH OTHER. LATERAL JOINTS SHALL BE STAGGERED TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. CARE SHALL BE EXERCISED TO INSURE THAT THE SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE AIR

5. SLOPING SURFACES: IN DITCHES, THE SOD SHALL BE PLACED WITH THE LONGER DIMENSION PERPENDICULAR TO THE FLOW OF THE WATER IN THE DITCH. ON SLOPES, STARTING AT THE BOTTOM OF THE SLOPE, THE SOD SHALL BE PLACED WITH THE LONGER DIMENSION PARALLEL TO THE CONTOURS OF THE GROUND. THE EXPOSED EDGE OF THE SOD SHALL BE BURIED FLUSH WITH THE ADJACENT SOD. ON SLOPES WHERE THE SOD MAY BE DISPLACED DURING SODDING OPERATIONS, THE WORKMAN SHALL WORK FROM LADDERS OR TREADED PLANKS.

6. STAKING SOD: THE SOD SHALL BE STAKED ON ALL SLOPES OF 2:1 OR STEEPER. SOD SHALL BE STAKED WITH NOT LESS THAN FOUR (4) STAKES PER YARD WITH AT LEAST ONE STAKE FOR EACH PIECE OF SOD. STAKES SHALL BE LATH OR SIMILAR MATERIAL, POINTED, AND DRIVEN WITH THE FLAT SIDE AGAINST THE SLOPE, SIX INCHES (6") INTO THE GROUND, LEAVE APPROXIMATELY ONE-HALF INCH (1/2") OF THE TOP ABOVE THE GROUND.

7. WATER AND ROLLING: THE CONTRACTOR SHALL WATER SOD IMMEDIATELY AFTER INSTALLATION TO PREVENT EXCESSIVE DRYING DURING PROGRESS OF THE WORK. AS SODDING IS COMPLETED IN ANY ONE SECTION, THE ENTIRE AREA SHALL BE ROLLED. IT SHALL THEN BE THOROUGHLY IRRIGATED TO A DEPTH SUFFICIENT THAT THE UNDERSIDE OF THE NEW SOD PAD AND SOIL IMMEDIATELY BELOW THE SOD ARE THOROUGHLY WET.

8. SUPPLEMENTAL WATERING: DURING PERIODS OF INTENSE HEAT OR ABNORMAL RAINFALL, SUPPLEMENTAL WATERING MAY BE REQUIRED PRIOR TO ACCEPTANCE OF THE WORK. WHEN SUPPLEMENTAL WATERING IS DIRECTED BY THE ARCHITECT, WATER SHALL BE APPLIED AT THE RATE SPECIFIED BY THE ARCHITECT.

9. DISPOSAL OF SURPLUS MATERIAL: SURPLUS AND WASTE MATERIALS RESULTING FROM SODDING OPERATIONS SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS EXPENSE.

DIVISION 2 - SITE WORK SECTION 0282 LAWNS - CONTINUED

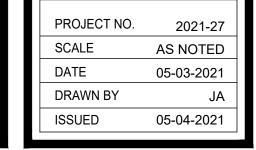
> **BEFORE YOU DIG** IT'S THE LAW!

Know what's **below.** SUNSHINE STATE ONE CALL OF FLORIDA, INC. 1

SITE DEVELOPMENT PLANS FOR:

TOWN CENTER IMPROVEMENTS - OUTDOOR VENUE

TOWN OF LONGBOAT KEY, FL



	REVISIONS												
N	Ο.	DESCRIPTION		INIT.	NO.	DESCRIPTION	INIT.						
	1	REV. PER TLBK	08-16-2021	bpk	**	REVISION 1 - BLDG. COMMENTS & GENERAL REVISIONS 11-02-2022	JL						
	2	REV. PER CIVIL	11-02-2021	KJ									
	3	REV. PER CIVIL	11-08-2021	KJ									
	4	REV. PER CIVIL	03-31-2022	KJ									

SPECIFICATIONS HILLIP J. SMITH, R.L.A. #1096

PLANTING



SHEET NO.

DIVISION 2 - SITE WORK SECTION 0282 LAWNS - CONTINUED

3. SEEDING OPERATIONS:

1. IMMEDIATELY PRIOR TO SEEDING THE GROUND SHALL BE SCARIFIED AND RAKED TO PROVIDE A FRIABLE FINE TEXTURE.

2. SEED AREAS SHALL BE SEEDED WITH A MECHANICAL SPREADER AT THE RATE OF APPLICATION OF FIVE POUNDS PER ONE THOUSAND SQUARE FEET (10 LBS/1000 SQ. FT.) FOR BAHIA GRASSES. APPLICATION RATES FOR OTHER GRASSES SHALL BE SPECIFIED IN SUPPLEMENTAL SPECIFICATIONS.

3. AFTER SEEDING, ALL AREAS SHALL BE RAKED AND ROLLED TO SATISFAC¬TORILY COVER SEED, AND THEN THOROUGHLY WATERED.

4. ALL SEED SHALL BE TILLED INTO SOIL TO A DEPTH OF 1/2" TO 1". THE PLANTED SEED BED SHALL BE ROLLED AND MULCHED WITH WEED FREE HAY OR STRAW AT A RATE OF 1 BALE/1000 SQ. FT. MIN.

5. MAINTAIN ALL SEEDED AREAS TO ESTABLISH A STAND OF BAHIA GRASS UNTIL FINAL ACCEPTANCE BY THE OWNER.

IV. GENERAL GUARANTY: NEITHER THE FINAL CERTIFICATE OF PAYMENT NOR ANY PROVISION OF THE CONTRACT DOCUMENTS NOR PARTIAL OR ENTIRE OCCUPANCY OF THE PREMISES BY THE OWNER SHALL CONSTITUTE AN ACCEPTANCE OF WORK NOT DONE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR RELIEVE THE CONTRACTOR OF LIABILITY IN RESPECT TO ANY EXPRESS WARRANTIES OR RESPONSIBILITY FOR FAULTY MATERIAL AND/OR WORKMANSHIP. THE CONTRACTOR SHALL REMEDY ANY DEFECTS IN THE WORK AND PAY FOR ANY DAMAGE TO OTHER WORK RESULTING THEREFROM WHICH SHALL APPEAR WITHIN A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK UNLESS A LONGER PERIOD IS SPECIFIED.

THE GUARANTY PERIOD SHALL COMMENCE AT SUCH TIME AS THE AR-CHITECT CERTIFIES THAT THE PROJECT HAS BEEN COMPLETED IN SUBSTANTIAL COMPLIANCE WITH THE CONTRACT DOCUMENTS. IN CERTAIN INSTANCES LIMITED, DEFINED AREAS OF THE PROJECT MAY BE RELEASED BY THE ARCHITECT FOR MAINTENANCE PURPOSES ONLY AND/OR FOR COMMENCEMENT OF THE GUARANTY PERIOD. SUCH PARTIAL RELEASES SHALL BE AT THE SOLE DISCRETION OF THE ARCHITECT.

 ${\tt RESPONSIBILITIES\ OF\ THE\ OWNER\ THROUGHOUT\ THE\ GUARANTY\ PERIOD\ SHALL\ BE\ AS\ FOLLOWS:}$

SCOPE OF THE CONTRACTED WORK.

MAINTAIN A REGULAR INSPECTION SCHEDULE OF ALL MATERIALS AND WORKMANSHIP INCLUDED WITHIN THE

2. ESTABLISH NORMAL, REGULARLY SCHEDULED MAINTENANCE PROCEDURES FOR ALL AREAS OF WORK UNDERTAKEN BY THE CONTRACTOR. SUCH MAINTENANCE PROCEDURES AND FREQUENCY SHALL BE IN KEEPING WITH NORMAL INDUSTRY STANDARDS FOR THE SCOPE AND NATURE OF THE WORK INVOLVED.

3. MAINTAIN A WRITTEN RECORD OF THE MAINTENANCE PROCEDURES UNDERTAKEN INCLUDING THE FREQUENCY OF ALL MAINTENANCE PERFORMED, RECORD OF PROBLEMS ENCOUNTERED AND SOLUTIONS.

4. MONITOR ALL LAWN AREAS FOR PROPER SOIL MOISTURE CONTENT AND THE UNIFORMITY OF WATER APPLICATION OVER TIME, AS COMPENSATED FOR SEASONAL VARIATION AND LOCAL CLIMATE. APPLY LOCALIZED HAND WATERING AS NECESSARY TO ENSURE PROPER MOISTURE LEVELS FOR THE ESTABLISHMENT OF TURF IN UNIQUE MICRO-ENVIRONMENTS.

5. PROVIDE WRITTEN NOTIFICATION TO THE CONTRACTOR AND THE ARCHITECT OF ANY MATERIAL AND/OR WORKMANSHIP THAT IS BELIEVED TO BE AT A LEVEL OF QUALITY AND/OR PERFORMANCE BELOW THAT WHICH WAS SPECIFIED WITHIN THE CONTRACT DOCUMENTS AND SUBJECT TO THE CONTRACTOR'S GUARANTY. SUCH NOTICE SHALL BE DELIVERED TO THE CONTRACTOR AND THE ARCHITECT VIA MAIL TO THEIR LAST KNOWN ADDRESS.

RESPONSIBILITIES OF THE CONTRACTOR THROUGHOUT THE GUARANTY PERIOD SHALL INCLUDE THE FOLLOWING:

1. PRIOR TO FINAL ACCEPTANCE, THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A WRITTEN MAINTENANCE SCHEDULE WHICH ADDRESSES ALL ASPECTS OF THE WORK SCOPE AS COMPLETED UNDER THIS CONTRACT.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE OF ALL ITEMS WITHIN THE WORK SCOPE FOR THE ENTIRE COURSE OF THE CONTRACT UNLESS SPECIFICALLY NOTED OTHERWISE WITHIN THE CONTRACTOR DOCUMENTS.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTING THE PROJECT SITE AT REGULAR INTERVALS DURING THE GUARANTY PERIOD. THE FREQUENCY OF SUCH INSPECTIONS SHALL BE AT THE DISCRETION OF THE CONTRACTOR; HOWEVER, THE FREQUENCY SHALL BE SUCH THAT THE CONTRACTOR IS SATISFIED THAT HE CAN PERCEIVE POTENTIAL MAINTENANCE CONCERNS, NOTIFY THE OWNER AND PROTECT HIS INTERESTS IN THE GUARANTY OF MATERIALS AND WORKMANSHIP.

4. FAILURE OF THE CONTRACTOR TO COMPLY WITH ANY OF THE ABOVE CONTRACTOR RESPONSIBILITIES SHALL BE CONSIDERED AS HIS ACCEPTANCE OF ALL MAINTENANCE SCHEDULES AND PROCEDURES AS BEING PERFORMED BY THE OWNER AND THE CONTRACTOR SHALL THEREBY FORFEIT HIS RIGHT TO DISPUTE ANY QUESTION ARISING AS TO GUARANTY OF SPECIFIC MATERIALS AND/OR WORKMANSHIP.

5. THE CONTRACTOR GUARANTEES ALL SOD AND/OR SEEDING TO BE ALIVE AND IN SATISFACTORY GROWTH AT THE END OF NINETY (90) DAYS, PROVIDING APPROPRIATE MAINTENANCE HAS BEEN PROVIDED BY THE OWNER. IF IMPROPER MAINTENANCE IS BEING PROVIDED THE CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING, WITH A COPY TO THE ARCHITECT, AS TO WHAT STEPS ARE NECESSARY TO BE TAKEN.

6. ACCEPTANCE BY THE OWNER SHALL BE MADE AT SUCH TIME AS GRASSING OPERATIONS HAVE BEEN INSPECTED AND ACCEPTED BY THE ARCHITECT AND OWNER; SUBJECT TO IV. 1 ABOVE. ANY SEED AREAS OVER ONE FOOT SQUARE NOT COVERED BY TURF SHALL BE RE-SEEDED BY THE CONTRACTOR. ANY SODDED AREAS OVER ONE FOOT SQUARE THAT ARE DEAD OR DYING SHALL BE RE-SODDED BY THE CONTRACTOR. AT THE END OF THE NINETY (90) DAY GUARANTEE PERIOD A FINAL INSPECTION SHALL BE MADE BY THE ARCHITECT AS TO ACCEPTABILITY OF ALL LAWN

END SECTION 2-0282

DIVISION 2 - SITE WORK SECTION 0283 PLANTING

I. GENERAL

NOMENCLATURE: THE NAMES USED CONFORM TO THE NAMES GIVEN IN 'STANDARDIZED PLANT NAMES' EXCEPT IN CASES NOT COVERED BY THAT BOOK, IN WHICH CASE, THE NAMES CONFORM TO THE CUSTOMS OF THE TRADE.
 SUMMARY OF MATERIALS LISTS: AN ITEMIZED LIST OF PLANTS IS SHOWN IN THE SPECIFICATIONS AND COMPLETE

REQUIREMENTS FOR THESE PLANTS ARE A PART OF THIS SPECIFICATION.

3. ALL PLANT MATERIAL FURNISHED BY THE CONTRACTOR, UNLESS OTHERWISE SPECIFIED, SHALL BE FLORIDA NO. 1 OR BETTER, IN ACCORDANCE WITH GRADES AND STANDARDS FOR NURSERY PLANTS, STATE PLANT BOARD OF FLORIDA. THE LANDSCAPE ARCHITECT RESERVES ALL RIGHTS TO DETERMINE ACCEPTABILITY OF PLANT MATERIAL SUBMITTED FOR PLANTING. PALMS MUST MEET SPECIFICATIONS CONTAINED HEREIN, BUT NEED NOT NECESSARILY BE NURSERY GROWN STOCK.

4. ALL PLANT SIZES LISTED AND NOTED ON THE PLANS ARE 'MINIMUMS'. ALL PARTS OF THE PLANT SPECIFICATION INCLUDING CALIPER SIZES MUST BE MET AT THE TIME OF INSTALLATION.

II. MATERIALS

1. TREES AND PALMS: ALL TREES MUST HAVE A FULLY DEVELOPED FIBROUS ROOT SYSTEM, BE HEAVILY BRANCHED, OR IN THE CASE OF PALMS, HEAVILY FROND, FREE FROM ALL INSECTS, FUNGUS, AND OTHER DISEASES. ALL TREES AND PALMS SHALL BE BALLED AND BURLAPPED OR IN A CONTAINER, GROW BAG MATERIAL IS NOT ACCEPTABLE. ALL TREES AND PALMS SHALL HAVE A HABIT OF GROWTH THAT IS NORMAL FOR THE SPECIES. IN THE CASE OF TREES NAMED AS SPECIMEN ITEMS, THE LANDSCAPE ARCHITECT SHALL RETAIN THE RIGHT TO REJECT THEM WHEN THEY LACK PROPER LANDSCAPE ARCHITECTURAL CHARACTER, CALIPER, HEIGHT AND SPREAD AS CALLED FOR BY ITS USE ON THE PLAN. (THIS SHALL BE DETERMINED PRIOR TO PLANTING AT THE REQUEST OF THE LANDSCAPE CONTRACTOR.)

2. SHRUBS AND VINES: ALL SHRUBS AND VINES SHALL HAVE A FULLY DEVELOPED ROOT SYSTEM, AND SHALL FULFILL DIMENSIONAL REQUIREMENTS AND BE CONSIDERED NORMAL FOR THE SPECIES UNLESS STATED. SHRUBS AND VINES SHALL BE HEAVILY CANNED AND LEAFED FOLIAGE TO BASE AND SHALL BE FREE FROM INSECTS, DISEASES AND MUTILATIONS OF ANY NATURE. SELF-HEADING SHALL BE PLANTED IN WELL ROTTED MANURE IN PITS TWELVE INCHES (12") GREATER AT ALL DIMENSIONS THAN THE BALL OF THE PLANT. ALL ROOTED PLANTS SHALL BE PLANTED IN PITS TWELVE INCHES (12") GREATER THAN THE BALL OF THE PLANTS. DOMESTIC PEAT SHALL BE USED TO FILL THE CAVITY BETWEEN BALL AND PIT. SOIL AMENDMENTS SHALL BE ADDED TO INSURE PROPER ACIDIC REACTION OF SOIL. WHEN AZALEAS ARE PLANTED IN MASONRY PLANTERS OR PLANTING AREAS THE SIDES OF AREA SHALL BE LINED WITH .005 POLYETHYLENE TO PROTECT FROM ALKALINE NATURE OF MASONRY.

3. GROUNDCOVERS: ALL GROUNDCOVERS SHALL HAVE A STURDY FIBROUS ROOT SYSTEM, UNLESS UNROOTED CUTTINGS ARE CALLED FOR ON THE PLANS AND/OR SUMMARY OF MATERIALS, SHALL BE HEAVILY LEAFED AND MUST BE FREE OF ALL INSECTS, DISEASES AND INJURIES.

SITE DEVELOPMENT PLANS FOR:

TOWN CENTER IMPROVEMENTS - OUTDOOR VENUE

TOWN OF LONGBOAT KEY, FL

III. EXECUTION

1. DIGGING AND MOVING:

B & B PLANTS: NO PLANT SHALL BE ACCEPTED WHEN THE BALL OF EARTH SURROUNDING ITS ROOTS HAS BEEN CRACKED OR BROKEN. THE DIAMETER OF THE BALL MUST BE SUFFICIENT TO ENCOMPASS THE FIBROUS AND FEEDING ROOT SYSTEM NECESSARY FOR THE MAXIMUM DEVELOPMENT OF THE PLANT.

 ONLY A MINIMUM OF FRONDS SHALL BE REMOVED FROM THE CROWN OF PALM TREES TO FACILITATE MOVING AND HANDLING. CLEAR TRUNK SHALL BE AS SPECIFIED AFTER THE MINIMUM OF FRONDS HAS BEEN REMOVED.
 PROTECTION AFTER DELIVERY: THE BALLS OF B & B PLANTS WHICH CANNOT BE PLANTED IMMEDIATELY ON

DELIVERY SHALL BE COVERED WITH MOIST SOIL OR MULCH, OR EQUAL PROTECTION FROM DRYING WINDS OR SUN, AND KEPT MOIST.

4. PROTECTION: TREES MOVED BY WINCH OR CRANE SHALL BE THOROUGHLY PROTECTED FROM CHAIN MARKS, GIRDLING OR BARK SLIPPAGE BY MEANS OF BURLAP, WOOD BATTENS OR OTHER APPROVED METHOD

2. PREPARATION OF GROUND PLANTING:

 NO PLANT PIT SHALL BE DUG OR PREPARED UNTIL THEIR LOCATIONS HAVE BEEN STAKED, SPRAYED OR FLAGGED ON THE GROUND AND APPROVED. ALL PLANT MATERIALS SHALL BE SUBJECT TO INSPECTION AT ANY TIME BY THE OWNER TO DETERMINE ADHERENCE TO QUALITY AND SIZE.

2. CIRCULAR PITS WITH VERTICAL SIDES SHALL BE EXCAVATED FOR ALL PLANTS. DIAMETER OF PITS FOR TREES SHALL BE AT LEAST TWO FEET (2') GREATER THAN THE DIAMETER OF THE BALL. THE DEPTH OF PITS FOR TREES SHALL BE ENOUGH TO ACCOMMODATE THE BALL WHEN THE PLANT IS SET TO FINISH GRADE ALLOWING FOR SIX INCHES (6") COMPACTED PLANTING SOIL IN THE BOTTOM OF THE PIT.

PLANTING OPERATIONS:

1. SETTING PLANTS: ALL PLANTS SHALL BE PLANTED IN PITS, CENTERED AND SET ON SIX INCHES (6") OF COMPACTED TOPSOIL TO SUCH A DEPTH THAT THE FINISH GRADE LEVEL AT THE PLANT AFTER SETTLEMENT WILL BE THE SAME AS THAT AT WHICH THE PLANT WAS GROWN. ALL PLANTING AREAS SHALL RECEIVE ADEQUATE FERTILIZATION WITH AGRIFORM TABLETS AS PER SCHEDULE IN PLANS. WATERING SHALL COMMENCE WITH BACKFILLING TO ELIMINATE ALL AIR POCKETS. NO BURLAP SHALL BE PULLED OUT FROM UNDER BALLS. ROOTS SHALL BE SPREAD IN THEIR NORMAL POSITION. ALL BROKEN OR FRAYED ROOTS SHALL BE CUT OFF CLEANLY. PLANTING SHALL BE SET SO THAT THE FINAL GRADE OF GROUND AROUND THE PLANTS SHALL CONFORM TO SURROUNDING GRADES.

2. COORDINATION: THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE COORDINATION OF PLANTING OPERATIONS WITH THE BUILDING CONTRACTOR AND ANY OTHER CONTRACTOR ON THE JOB. REPAIR OF DAMAGE TO PLANTS, GRADES, LAWNS, ETC., DURING INSTALLATION SHALL NOT BE CONSIDERED AS AN EXTRA, AND NOT CHARGEABLE TO THE OWNER. DAMAGE CAUSED BY OTHER CONTRACTORS WILL BE THE RESPONSIBILITY OF SAID CONTRACTOR.

4. PRUNING:

PRONING:
 THE AMOUNT OF PRUNING, UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE ARCHITECT, SHALL BE LIMITED TO THE
MINIMUM NECESSARY TO REMOVE DEAD OR INJURED TWIGS AND BRANCHES AND TO COMPENSATE FOR THE LOSS OF
ROOTS AS A RESULT OF TRANSPLANTING OPERATIONS. PRUNING SHALL BE DONE IN SUCH A MANNER AS TO NOT
CHANGE THE NATURAL HABIT OR SHAPE OF THE PLANT. ALL CUTS OVER ONE-HALF INCH (1/2") IN DIAMETER SHALL BE
TREATED WITH AN APPROVED TREE PAINT.

2. ALL TREES SHALL BE TRIMMED UP FOR CLEAR TRUNK, AS DIRECTED BY THE LANDSCAPE ARCHITECT. SUCH PRUNING IS FOR AESTHETIC CHARACTER AND SHALL BE DONE ONLY UNDER HIS DIRECTION.

5. WATERING:

ALL PLANT MATERIAL SHALL BE WATERED IN AT THE TIME OF PLANTING, AND NOT LEFT TO DRY OUT UNTIL THE END
OF THE DAY. THE AUTOMATIC IRRIGATION SYSTEM, IF SPECIFIED, DOES NOT REPLACE THE NEED FOR
HANDWATERING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WATERING TO AVOID TRANSPLANT SHOCK.

6. CONTRACTORS RESPONSIBILITY FOR CONDITIONS OF PLANTINGS:

1. THE CONTRACTOR'S SHALL ASSURE THAT THE PLANTS ARE KEPT ADEQUATELY WATERED, THAT THE GUY WIRES ARE KEPT TIGHT AND THE BRACES ADJUSTED AS NECESSARY, THAT ALL PLANTING AREAS AND BEDS ARE KEPT FREE OF WEEDS AND UNDESIRABLE PLANT GROWTH AND THAT THE PLANTS ARE FERTILIZED AS NECESSARY SO THAT THEY ARE HEALTHY, VIGOROUS AND UNDAMAGED AT THE TIME OF ACCEPTANCE. HIS RESPONSIBILITY FOR PROTECTION AGAINST MECHANICAL DAMAGE SHALL INCLUDE THE PROVIDING OF PROTECTION FROM VEHICLES, INCLUDING THE POSTING OF APPROVED WARNING SIGNS AND BARRICADES, AS MIGHT BE NECESSARY. HE SHALL REPAIR, RESTORE OR REPLACE ANY PLANTS OR PLANTING AREAS WHICH MIGHT BECOME DAMAGED AS A RESULT OF ANY NEGLIGENCE BY HIM IN COMPLYING WITH THESE REQUIREMENTS. AS A SPECIFIC REQUIREMENT OF THESE CONDITIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ASSURING THAT ALL PLANTS AT THE TIME OF FINAL INSPECTION, EXHIBIT THE CHARACTERISTICS AND QUALIFICATIONS REQUIRED FOR THE GRADE OF PLANT AS ORIGINALLY SPECIFIED.

END SECTION 2-0283

DIVISION 2 - SITE WORK

SECTION 0287
BEDDING PLANT SOIL PREPARATION

I. SCOPE: UNDER THIS ITEM, PERFORM ALL WORK NECESSARY FOR INSTALLING ANNUALS AS SHOWN ON THE DRAWINGS OR INFERABLE THEREFROM AND/OR AS SPECIFIED, IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

II. MATERIALS: GENERAL - ADD OR SUBTRACT THE FOLLOWING MATERIALS FROM THE SOIL MIX PREPARATION AS SPECIAL SITE CONDITIONS MAY REQUIRE AND AS DETERMINED BY SOIL TESTS. SOIL SHALL HAVE A PH OF BETWEEN 5.0 AND 6.5.

10 LBS. DOLOMITE PER 100 SQ. FT. OF BEDDING AREA

5 LBS. MICROMAX PER 100 SQ. FT. OF BEDDING AREA 22 LBS. OSMOCOTE 14 14 14 PER 100 SQ. FT. OF BEDDING AREA

8 LBS. GSMOOTE 14 14 FER 100 SQ. FT. OF BEDDING AREA

3" CANADIAN PEAT MOSS

MYCOR FLOWER BED INOCULANT BY PHC PRODUCTS, (ENDOMYCORRHIZAL).

III. EXECUTION: PRIOR TO PLANTING, THE SURFACE SHALL BE CLEARED OF ALL TRASH, DEBRIS, AND STONES LARGER THAN ONE INCH (1") IN DIAMETER, AND OF ALL ROOTS, BRUSH, WIRE, GRADE STAKES, AND OTHER OBJECTS, THAT WOULD INTERFERE WITH PLANTING OR MAINTENANCE OPERATIONS. APPLY CHEMICALS AND PEAT TO AREA. ROTOTIL CHEMICALS AND PEAT SIX INCHES (6") INTO SOIL. MULCH WITH CYPRESS MULCH AT TWO TO THREE INCHES (2" 3") DEEP.

PLANT ANNUALS; WATER TWO INCHES (2") PER DAY FOR THE FIRST TWO (2) WEEKS. SPRAY TWO (2) DAYS AFTER PLANTING AND TEN (10) DAYS AFTER WITH ORTHENE AND VIDATE. DO NOT APPLY ORTHENE OR VIDATE ON MUMS.

END SECTION 2-0287

 PROJECT NO.
 2021-27

 SCALE
 AS NOTED

 DATE
 05-03-2021

 DRAWN BY
 JA

 ISSUED
 05-04-2021

	REVISIONS											
NO.	DESCRIPTION		INIT.	NO.	DESCRIPTION	INIT.						
1	REV. PER TLBK	08-16-2021	bpk	**	REVISION 1 - BLDG. COMMENTS & GENERAL REVISIONS 11-02-2022	JL						
2	REV. PER CIVIL	11-02-2021	KJ									
3	REV. PER CIVIL	11-08-2021	KJ									
4	REV. PER CIVIL	03-31-2022	KJ									

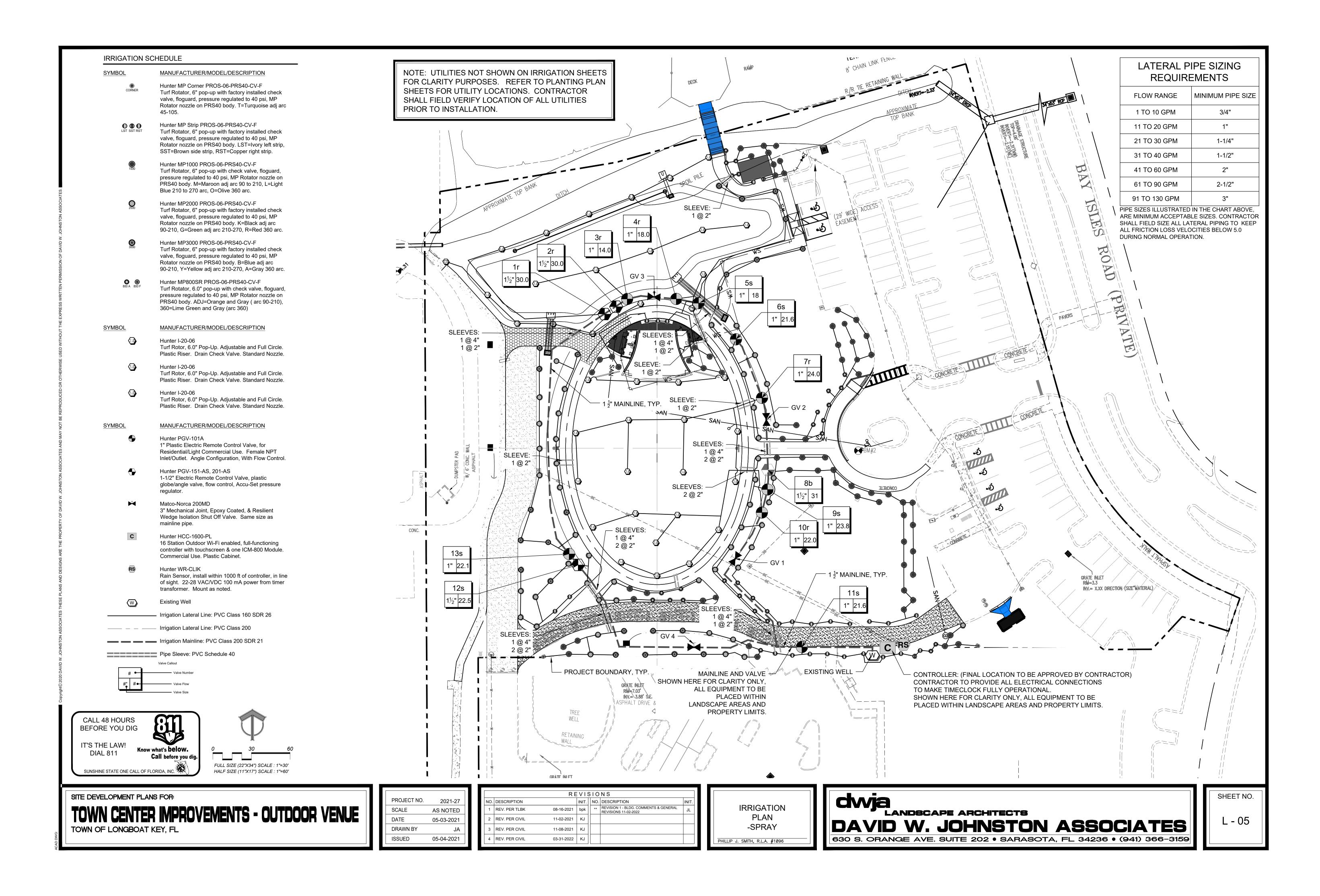
PLANTING SPECIFICATIONS COMPANDE CAPE ARCHITECTS

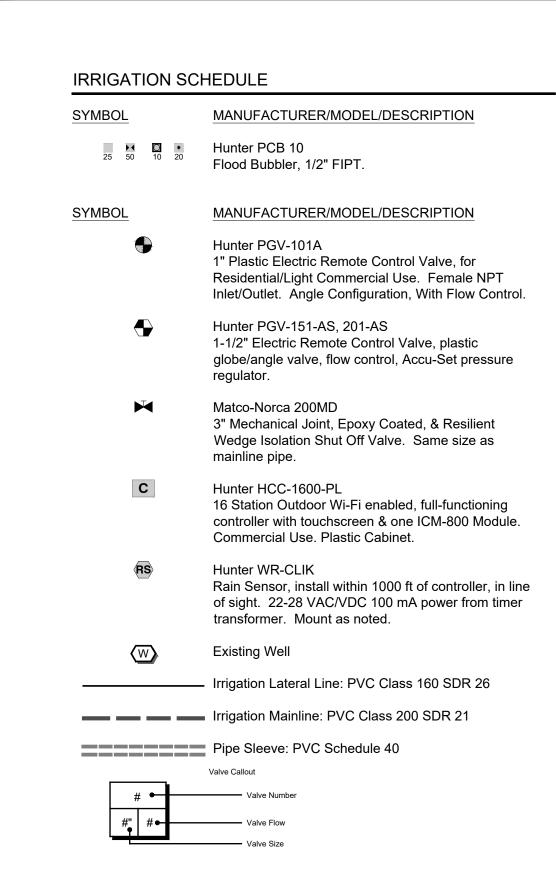
DAVID W. JOHNSTON ASSOCIATES

630 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 366-3159

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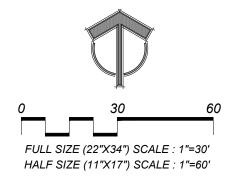
NOTE: UTILITIES NOT SHOWN ON IRRIGATION SHEETS FOR CLARITY PURPOSES. REFER TO PLANTING PLAN SHEETS FOR UTILITY LOCATIONS. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UTILITIES PRIOR TO INSTALLATION.

LATERAL PIPE SIZING REQUIREMENTS								
FLOW RANGE	MINIMUM PIPE SIZE							
1 TO 10 GPM	3/4"							
11 TO 20 GPM	1"							
21 TO 30 GPM	1-1/4"							
31 TO 40 GPM	1-1/2"							
41 TO 60 GPM	2"							
61 TO 90 GPM	2-1/2"							
91 TO 130 GPM	3"							

PIPE SIZES ILLUSTRATED IN THE CHART ABOVE, ARE MINIMUM ACCEPTABLE SIZES. CONTRACTOR SHALL FIELD SIZE ALL LATERAL PIPING TO KEEP ALL FRICTION LOSS VELOCITIES BELOW 5.0 DURING NORMAL OPERATION.



TOWN OF LONGBOAT KEY, FL



TOWN CENTER IMPROVEMENTS - OUTDOOR VENUE

PROJECT NO.	2021-27
SCALE	AS NOTED
DATE	05-03-2021
DRAWN BY	JA
ISSUED	05-04-2021

REVISIONS									
NO	. DESCRIPTION		INIT.	NO.	DESCRIPTION	INIT.			
1	REV. PER TLBK	08-16-2021	bpk	**	REVISION 1 - BLDG. COMMENTS & GENERAL REVISIONS 11-02-2022	JL			
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3	REV. PER CIVIL	11-08-2021	KJ						
4	REV. PER CIVIL	03-31-2022	KJ						

IRRIGATION
PLAN
- BUBBLER

PHILLIP J. SMITH, R.L.A. #1096

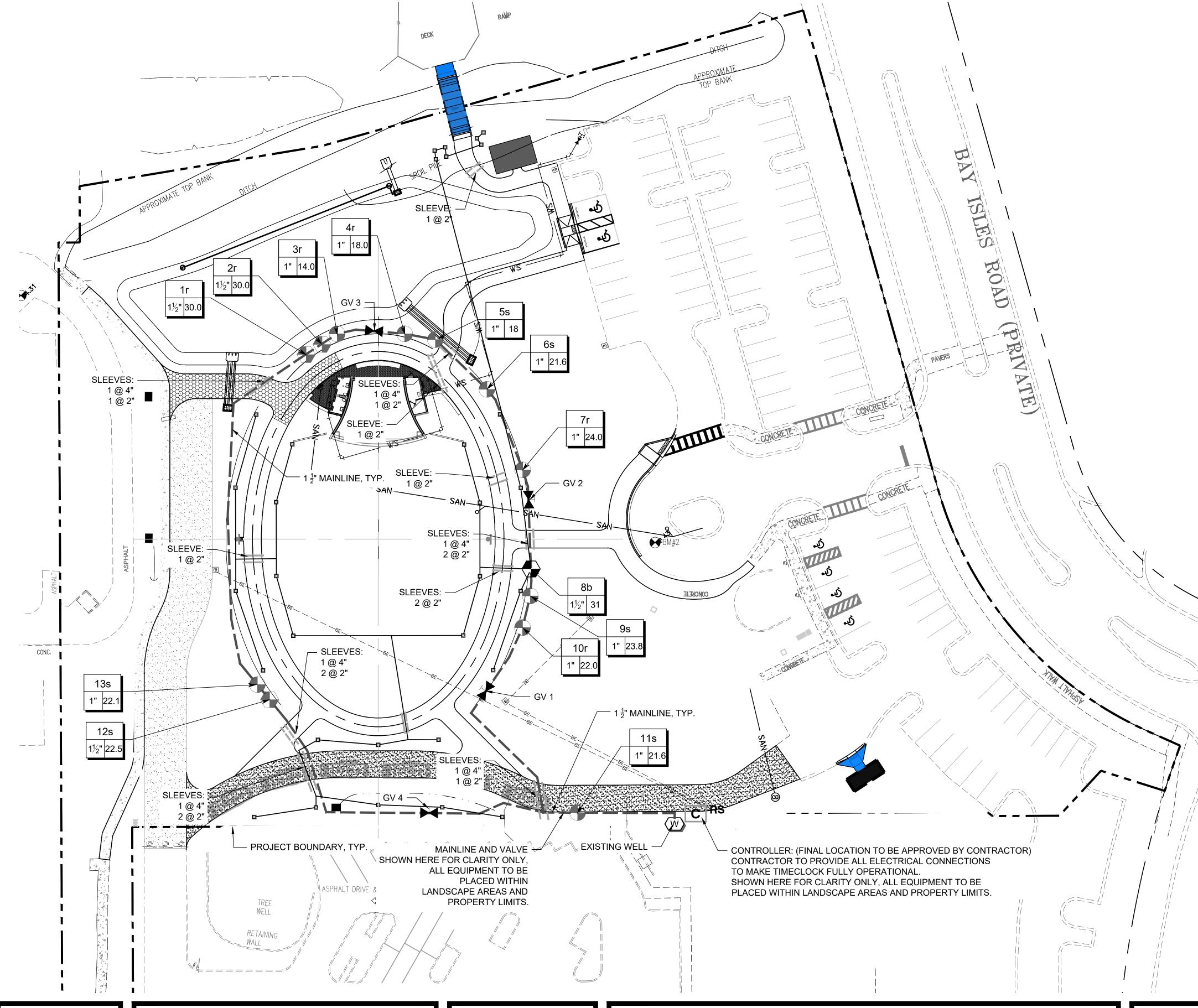
CAVIA
LANDSCAPE ARCHITECTS

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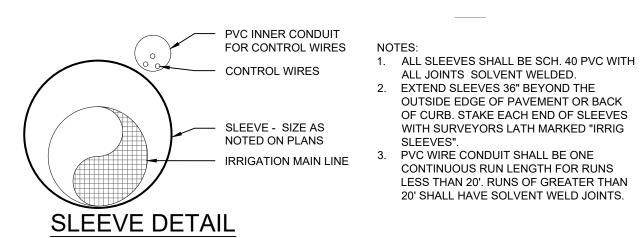


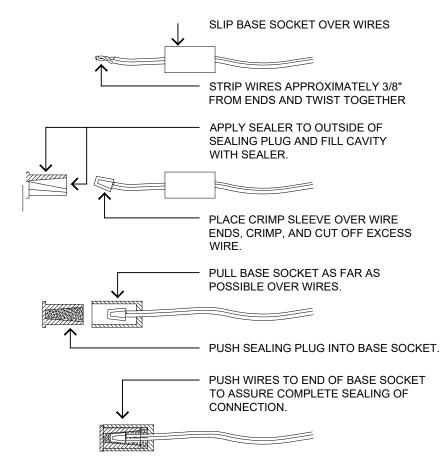
IRRIGATION NOTES:

- 1. ALL IRRIGATION LAYOUT HAS BEEN DESIGNED TO PROVIDE 100% COVERAGE WITH A MINIMUM OF 90% OVERLAP. ANY CHANGES MADE IN HEAD LAYOUT DUE TO FIELD CONDITIONS SHALL BE IN ACCORDANCE WITH THESE STANDARDS.
- ITEMS SHALL BE LOCATED WITHIN 14"X19" RECTANGULAR VALVE BOXES AS FOLLOWS: ALL VALVES, SPLICES WITHIN VALVE CONTROL LINES, AND QUICK COUPLERS NDS MODEL
- 3. VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF IRRIGATION SYSTEM. MAIN LINE SHALL NOT BE LOCATED WITHOUT PRIOR APPROVAL OF THE PROJECT CONSTRUCTION MANAGER AND THE LANDSCAPE ARCHITECT.
- 4. ALL PRESSURIZED MAIN LINES UNDER ASPHALT PAVEMENT SHALL BE WITHIN SLEEVES AS NOTED. WHERE ELECTRIC VALVE CONTROL LINES PASS THROUGH A SLEEVE WITH OTHER MAIN OR LATERAL LINES THEY SHALL BE CONTAINED WITHIN A SEPARATE, SMALLER CONDUIT
- 5. THE IRRIGATION CONTRACTOR SHALL BE DIRECTLY RESPONSIBLE FOR ALL SLEEVING AND DIRECTIONAL BORES.
- 6. ALL IRRIGATION HEADS SHALL BE LOCATED 2 FEET FROM BACK OF PAVEMENT EDGE (SIDEWALK, EDGE OF PAVEMENT OR CURB).
- 7. LOCATE ALL VALVES IN PLANTING BEDS WITH A MINIMUM OF 3'- 0" FROM BACK OF CURB OR EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED. PIPE SIZES ON EITHER SIDE OF SECTION VALVES CONNECTING MAINLINE TO SECTION LATERAL SHALL BE ONE (1) PIPE SIZE LARGER THAN VALVE SIZE.
- B. ALL UNSIZED PIPE SHALL BE 3/4" UNLESS OTHERWISE NOTED.
- 9. EACH TREE AND PALM (AS SHOWN ON THE PLANS) SHALL HAVE FLOOD BUBBLERS AS INDICATED (SEE IRRIGATION HEAD KEY FOR SPECIFICATION). SUCH HEADS SHALL BE ON MINIMUM 5'-0" LENGTH OF FLEXIBLE PIPE TO ALLOW ITS POSITIONING AT THE TREE. LOCATE BUBBLER ON THE UPHILL SIDE OF TREES ON ALL SLOPES. CLIP BUBBLER FLEX TO BASE OF ROOTBALL.
- 10. NUMBER THE TOP OF ALL VALVE BOX LIDS WITH MINIMUM 1" HEIGHT BLACK LETTERS TO CORRESPOND TO AUTOMATIC AND GATE VALVE DESIGNATIONS. ALL HOSE BIBB VALVE BOXES SHALL BE LABELED IN A SIMILAR MANNER WITH THE DESIGNATION "HB". LETTER OUTSIDE OF TIME CLOCK CABINETS TO CORRESPOND WITH IRRIGATION CLOCK PROGRAM DESIGNATION.
- 11. ALL 24 VAC WIRING SHALL BE UF DIRECT BURIAL COPPER WIRE AS FOLLOWS:
 - PULSE WIRES #14 COMMON WIRES - #12
- 12. CONTROL WIRING FOR VALVES SHALL BE LAID IN CONTROLLER TO VALVE. EACH SECTION VALVE SHALL HAVE A SEPARATE PULSE WIRE RUNNING FROM TRENCHES BENEATH MAINLINE. RUN TWO SPARE WIRES FULL LENGTH OF MAIN TO CLOCK.
- 13. VALVES SHALL BE WIRED TO CONTROLLER STATION NUMBERS AS PER THE IRRIGATION PLAN DURING INSTALLATION AND UPON COMPLETION OF THE IRRIGATION SYSTEM PROGRAM.
- 14. NOT USED
- 15. CONTRACTORS ARE ADVISED TO REFER TO THE SPECIFICATIONS, CONTRACT DOCUMENTS, AND PLAN SHEETS FOR A MORE DETAILED DISCLOSURE OF PERFORMANCE STANDARDS AND REQUIREMENTS.
- 16. HYDROSTATIC TESTING: AFTER THE MAIN LINE PIPE HAS BEEN LAID AND BACKFILLED, THE PIPE SHALL BE HYDROSTATICALLY TESTED FOR LEAKAGE. THE CONTRACTOR SHALL FURNISH THE PUMP, PIPE CONNECTION, BLOW OFF VALVES AND ANY OTHER NECESSARY APPARATUS INCLUDING GAUGES AND METERS AND ALL PERSONNEL NECESSARY FOR CONDUCTING THE TEST. BEFORE APPLYING THE TEST PRESSURE, ALL AIR SHALL BE EXPELLED FROM THE PIPE. IF NECESSARY, THREADED TAPS SHALL BE MADE AT THE
- POINTS OF HIGHER ELEVATIONS AND THEN CLOSED WITH PLUGS.

 17. WHEN PRACTICAL, TESTS SHALL BE MADE ON SECTIONS BETWEEN VALVES, OR SECTIONS NOT EXCEEDING 2,000 FEET IN LENGTH. DEAD ENDS, BENDS OR OTHER FITTINGS SHALL HAVE A FIRM FOUNDATION AND BE SECURELY BLOCKED AGAINST THE TRENCH WALLS BEFORE TESTING OR COMPLETING THE BACKFILL AS SPECIFIED.
- 18. THE FULL TEST PRESSURE OF 65 POUNDS PER SQUARE INCH (PSI) SHALL BE HELD FOR NO LESS THAN TWO HOURS OR LONGER AS NECESSARY TO PERMIT THOROUGH EXAMINATION OF ALL EXPOSED JOINTS IN THE SECTION OF MAIN BEING TESTED. TEST PRESSURE SHALL BE MAINTAINED AT 65 PSI BY PUMPING WATER INTO THE PIPE IN ACCORDANCE WITH THE REQUIREMENTS OF AWWA C600.
- 19. LEAKAGE SHALL BE MEASURED BY THE QUANTITY OF WATER PUMPED INTO THE PIPE TO MAINTAIN TEST PRESSURE DURING TEST PERIOD. MAXIMUM PERMISSIBLE LEAKAGE SHALL BE LESS THAN THE NUMBER OF GALLONS PER HOUR DETERMINED BY THE
- FOLLOWING FORMULA: L= (S X D X (P).5)/133200
 - L = ALLOWABLE LEAKAGE IN GPH
 - S = LENGTH OF SECTION TESTED, IN FEET D = NOMINAL DIAMETER OF THE PIPE IN INCHES
- P = AVERAGE PRESSURE MAINTAINED DURING THE LEAKAGE TEST IN PSI.
- THE TEST PRESSURE SHALL BE SIXTY-FIVE (65) PSI.
 WATER FOR TESTING SHALL BE OBTAINED FROM AN AI
- 20. WATER FOR TESTING SHALL BE OBTAINED FROM AN APPROVED WATER SOURCE. THE CONTRACTOR SHALL PROVIDE ALL WATER REQUIRED AT HIS OWN EXPENSE AND SHALL MAKE ALL NECESSARY ARRANGEMENTS WITH THE AUTHORITY WHICH CONTROLS THE SOURCE OF THE WATER SYSTEM AND SHALL BE GOVERNED IN HIS USE OF WATER BY ALL RULES AND REGULATIONS IMPOSED THEREON BY SAID AUTHORITY. THE CONTRACTOR SHALL PROVIDE AND REMOVE TEMPORARY CONNECTIONS BETWEEN THE SOURCE WATER SYSTEM AND THE MAINS CONSTRUCTED UNDER THIS CONTRACT. ALL TEMPORARY CONNECTIONS SHALL MEET THE APPROVAL OF THE LANDSCAPE ARCHITECT, THE AUTHORITY CONTROLLING THE SOURCE WATER SYSTEM AND PUBLIC HEALTH
- AUTHORITIES HAVING JURISDICTION.

 21. ALL LEAKS SHALL BE LOCATED AND REPAIRED UNTIL THE TEST MEETS THE ABOVE REQUIREMENTS. ANY FAULTY FITTINGS, VALVES OR OTHER ACCESSORIES WHICH LEAK DURING TESTING SHALL BE REPAIRED AND TESTING SHALL BE REPEATED AS SPECIFIED ABOVE UNTIL CORRECTED. ANY REPLACEMENT OF FAULTY MATERIAL OR RETESTING SHALL BE AT THE EXPENSE OF THE CONTRACTOR.





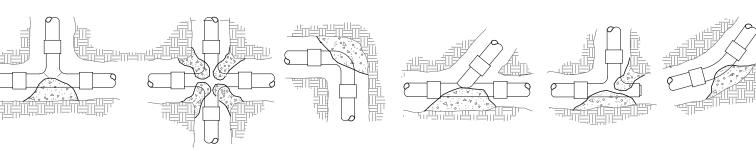
COMPLETED WIRE CONNECTOR ASSEMBLY

VALVE WIRE CONNECTIONS.

3M DIRECT BURY SPLICE KIT DBR/Y-6 FOR ALL AUTOMATIC

TYPICAL WIRE CONNECTION

NOT TO SCALE



THRUST BLOCKS SHALL BE CONSTRUCTED BEHIND ALL MAIN LINE FITTINGS, TEES, BENDS, REDUCERS, LINE VALVES, PLUGS, CAPS, ETC., IN ACCORDANCE WITH PIPE MANUFACTURERS RECOMMENDATIONS.

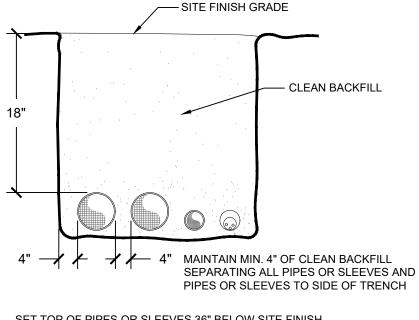
THRUST BLOCK SHALL BEAR AGAINST UNDISTURBED EARTH AND IN CASE THIS IS NOT POSSIBLE, THEY SHALL BE MADE CORRESPONDINGLY LARGER.

THRUST BLOCKS SHALL BE SO PLACED AS NOT TO INTERFERE WITH REPAIR TO JOINTS AND COUPLINGS AND SHALL BE A CONCRETE MIX CONSISTING OF ONE PART CEMENT, TWO PARTS SAND, AND 5 PARTS GRAVEL, MIXED AND PLACED FAIRLY DRY SO THEY MAY BE SHAPED FASILY. NO PRECAST UNITS SHALL BE USED.

PROVIDE & INSTALL 15# ROOFING FELT AS A SEPARATOR BETWEEN PIPE, FITTINGS & THRUST BLOCKS; PLACE CONCRETE DIRECTLY AGAINST FELT BUT NOT AGAINST PVC.

THRUST BLOCKS SHALL BE INSPECTED PRIOR TO BACKFILLING.

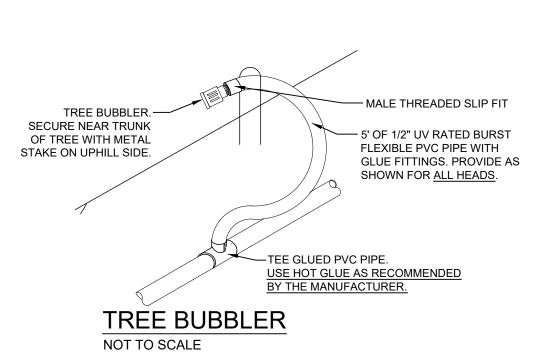
THRUST BLOCKING
NOT TO SCALE



SET TOP OF PIPES OR SLEEVES 36" BELOW SITE FINISH GRADE. BACKFILL TRENCH WITH CLEAN FILL MATERIAL FREE OF ORGANIC MATERIAL AND ROCK.

TRENCH DETAIL

NOT TO SCALE



PROJECT NO. 2021-27

SCALE AS NOTED

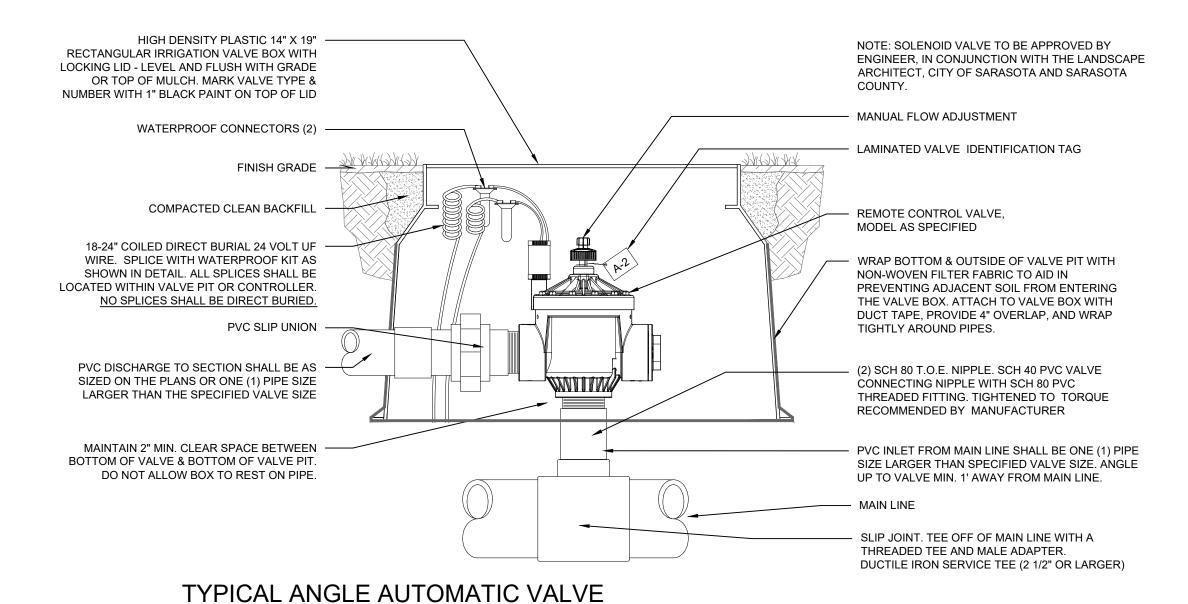
DATE 05-03-2021

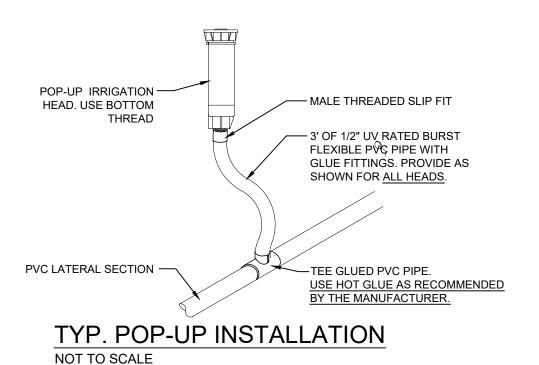
DRAWN BY JA

ISSUED 05-04-2021

IRRIGATION DETAILS

PHILLIP J. SMITH, R.L.A. #1096



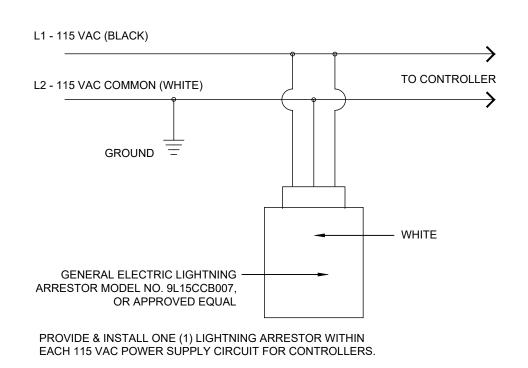


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LIGHTNING ARRESTOR DETAIL

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DAVID W. JOHNSTON ASSOCIATES

630 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 366-3159

SHEET NO.

SITE DEVELOPMENT PLANS FOR:

NOT TO SCALE

TOWN CENTER IMPROVEMENTS - OUTDOOR VENUE TOWN OF LONGBOAT KEY, FL

IRRIGATION SYSTEM

- I. GENERAL
- 1. SCOPE: UNDER THIS ITEM THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND EQUIPMENT FOR AN AUTOMATIC IRRIGATION SYSTEM IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, CONSTRUCTION EQUIPMENT AND TECHNICAL SUPERVISION WHICH MAY BE REQUIRED TO PRODUCE AN OPERATIONAL SYSTEM.
- 2. CODES AND INSPECTIONS: THE ENTIRE INSTALLATION SHALL COMPLY FULLY WITH ALL LOCAL AND STATE LAWS AND ORDINANCES AND WITH ALL ESTABLISHED CODES APPLICABLE THERETO. THE CONTRACTOR SHALL TAKE OUT ALL REQUIRED PERMITS, ARRANGE FOR ALL NECESSARY INSPECTIONS AND SHALL PAY ALL FEES AND EXPENSES IN CONNECTION WITH SAME, AS PART OF THE WORK UNDER THIS CONTRACT. UPON COMPLETION OF THE WORK, HE SHALL FURNISH TO THE OWNER ALL INSPECTION CERTIFICATES CUSTOMARILY ISSUED IN CONNECTION WITH THE CLASS OF WORK INVOLVED.
- 3. DESCRIPTION OF SYSTEM: THE AUTOMATIC IRRIGATION SYSTEM SHALL CONSIST OF UNDER GROUND PIPING AND SPRINKLER EQUIPMENT TO INSURE COMPLETE COVERAGE OF THE AREAS AS SHOWN ON THE IRRIGATION PLAN. GATE VALVES SHALL BE INCORPORATED IN THE SYSTEM AS SHOWN ON THE PLANS TO SHUT OFF CERTAIN PORTIONS OF THE SYSTEM WHILE ALLOWING OPERATION OF THE REMAINING SPRINKLER OUTLETS.
- 4. PROGRESS OF WORK: BEGIN WORK WHEN ORDERED TO DO SO BY THE LANDSCAPE ARCHITECT. THIS WORK MUST PROCEED IN AN ORDERLY MANNER AND IN ACCORDANCE WITH WHATEVER JOB SCHEDULE MAY BE SET UP TO AVOID DELAY OR INTERFERENCE WITH OTHER CONSTRUCTION WORK. THE IRRIGATION WORK SHALL PROCEED IN CONJUNCTION WITH THE GENERAL CONSTRUCTION WORK OF THE PROJECT. THE CONTRACTOR MUST PROVIDE MEANS OF ACCESS TO ALL SITE FEATURES AT ALL TIMES SO AS NOT TO IMPEDE THE GENERAL CONSTRUCTION WORK IN AREAS UNDER CONSTRUCTION, AND LEAVE THE AREA OF IRRIGATION WORK IN A FINELY GRADED CONDITION WITH ALL STONE OR ROCK REMOVED AND SMOOTHLY BLENDED TO ADJACENT AREAS.
- 5. STAKING AND LAYOUT:
- 1. IT IS TO BE RECOGNIZED, DUE TO THE ARTISTIC NATURE OF LANDSCAPE PLANTING DESIGN AND CONSTRUCTION, THAT THE LANDSCAPE PLANTING AS CONSTRUCTED MAY DIFFER SLIGHTLY FROM THE PLANS DRAWN FOR CONSTRUCTION OF THE IRRIGATION SYSTEM.

THE CONTRACTOR SHALL BE PREPARED TO ADJUST INSTALLATION OF THE IRRIGATION SYSTEM SO THAT IT WILL PROPERLY IRRIGATE PLANTED FEATURES CONSTRUCTED IN ACCORDANCE WITH THE EVIDENT INTENT OF THE IRRIGATION PLANS, AS INTERPRETED BY THE LANDSCAPE ARCHITECT.

2. AN AGENT OF THE CONTRACTOR SHALL STAKE THE LOCATION ON THE GROUND OF ALL IRRIGATION EQUIPMENT TO BE INSTALLED. IN STAKING THE LOCATIONS OF THE SPRINKLER OUTLETS, HE SHALL ADJUST THE STAKING AS REQUIRED TO BEST IRRIGATE THE AREA BEING DEVELOPED AND SHALL STRIVE TO MAINTAIN A UNIFORM SPACING BETWEEN THE VARIOUS OUTLETS. THIS SPACING MAY VARY ACCORDING TO MANUFACTURES RECOMMENDATIONS WHERE ADJUSTMENT OF SPACING IS REQUIRED TO FIT THE LANDSCAPE DEVELOPMENT AS CONSTRUCTED. ROUTING OF THE PIPE SHALL BE IN ACCORDANCE WITH THE IRRIGATION PIPING PLAN EXCEPT THAT THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO CHANGE THE ROUTING OF PIPE FROM THAT SHOWN ON THE PLAN AND TO CHANGE THE DEPTH OF TRENCH AND COVER OVER THE TOP OF PIPE IN CASE OF ROCK OR OTHER OBSTACLE. IN NO EVENT SHALL FIELD CHANGES OF THIS NATURE AFFECT THE OVERALL COST OF THE PROJECT EXCEPT WHERE THESE CHANGES MAY ALTER THE QUANTITY OF MATERIALS TO BE PROVIDED ACCORDING TO THE PLAN. THE CONTRACTOR MAY ADJUST THE LOCATION OF ANY PIPELINE TO AVOID LEDGE ROCK, STUMPS OR OTHER OBSTACLES, PROVIDED THAT SUCH ADJUSTMENT DOES NOT INCREASE THE QUANTITY OF PIPE REQUIRED AND IS NOT IN CONFLICT WITH THE EVIDENT INTENT OF THE PLAN.

3. SEE IRRIGATION PLAN FOR CONNECTIONS TO WATER SOURCE, PIPE SIZES AND LOCATION, HEADS AND VALVES. TIME CLOCK(S)/ CONTROLLER(S) SHALL BE LOCATED AT THE DIRECTION OF THE LANDSCAPE ARCHITECT.

- 4. THE IRRIGATION CONTRACTOR SHALL CAREFULLY REVIEW BED AND PAVING CUT-OUT LOCATIONS, WALKS, ROADS, PROPERTY LINES AND OTHER SITE FEATURES AND INSTALL HIS WORK ACCORDING TO THE INTENT OF THE IRRIGATION PLAN. SHOULD HEADS AND/OR LINES OR OTHER SYSTEM COMPONENTS BE IMPROPERLY LOCATED THEY SHALL BE PROPERLY RELOCATED AT THE CONTRACTORS EXPENSE.
- 6. RECORD PLAN:

1. THE CONTRACTOR SHALL MAINTAIN AT ALL TIMES AN UP-TO-DATE RECORD PLAN OF THE IRRIGATION SYSTEM AS BUILT. THE PLAN SHALL INDICATE THE LOCATION AND MEASUREMENTS, TO THE NEAREST FOOT, OF ALL MAINLINE PIPE INSTALLED, INCLUDING ALL AUTOMATIC AND GATE VALVES; SPLICE BOXES; MAIN LINE TEES. ELBOWS AND FITTINGS; PULSE AND COMMON CONTROL WIRE ROUTINGS; EQUIPMENT LOCATIONS; SLEEVE LOCATIONS; AND, THE CONTRACTOR SHALL MAKE SUCH MODIFICATIONS TO ANY NOTES AND/OR DETAILS AS APPROPRIATE TO SHOW THE FINAL INSTALLED CONDITION OF THE OVERALL SYSTEM. THE RECORD PLAN SHALL BE AN ORIGINAL PLAN. DRAWN IN INK ON A GOOD GRADE OF TRACING PAPER AT THE SCALE OF THE ORIGINAL PLAN AS BID; OR, UPON REQUEST, THE LANDSCAPE LANDSCAPE ARCHITECT MAY SUPPLY TO THE CONTRACTOR A PLASTIC SEPIA OF THE PLAN WHICH MAY BE MODIFIED TO PRESENT THE AS-BUILT CONDITION OF THE SYSTEM. ANY SUCH SEPIA SHALL BE USED ONLY FOR RECORD PLAN DRAWINGS AND SHALL BE RETURNED TO THE LANDSCAPE LANDSCAPE ARCHITECT WITH THE FINAL PAY REQUEST. IT SHALL BE KEPT UP TO DATE DURING THE INSTALLATION OF THE SYSTEM AND SHALL ACCURATELY INDICATE THE LOCATION OF ALL EQUIPMENT INSTALLED TO THAT TIME. A COPY SHALL BE AVAILABLE ON THE SITE FOR INSPECTION AT ALL

2. THE CONTRACTOR SHALL SUBMIT ONE (1) PRINT OF THE RECORD PLAN TO THE LANDSCAPE ARCHITECT FOR HIS REVIEW SIMULTANEOUSLY WITH EACH DRAW REQUEST AS THE PROJECT PROGRESSES. SUCH SUBMISSIONS SHALL BE COMPLETE THROUGH THE CURRENT WORK FOR WHICH PAYMENT IS REQUESTED.

3. AT LEAST TEN DAYS PRIOR TO SCHEDULED DATE OF THE FINAL INSPECTION OF THE COMPLETED IRRIGATION SYSTEM THE CONTRACTOR SHALL SUBMIT TO THE LANDSCAPE ARCHITECT, FOR HIS APPROVAL, A COMPLETE AND CORRECT COPY OF THE RECORD PLAN AND THREE (3) COPIES OF MANUFACTURER'S MAINTENANCE AND OPERATING INSTRUCTIONS FOR ALL VALVES, SPRINKLERS AND OTHER EQUIPMENT INSTALLED.

- 7. DEFINITIONS: THE FOLLOWING DEFINITIONS ARE IN ADDITION TO, SUPPLEMENT, AND/OR COMPLEMENT THESE SET FORTH ELSEWHERE IN THESE SPECIFICATIONS, WHEREVER THE FOLLOWING TERMS, OR PRONOUNS IN PLACE OF THEM, ARE USED IN THESE SPECIFICATIONS, THEIR INTENT AND MEANINGS SHALL BE INTERPRETED AS FOLLOWS:
- SW: SOLVENT WELD PVC PIPE AND/OR FITTINGS.
- RG: RUBBER GASKETED OR O-RING PVC PIPE AND/OR FITTINGS.
- ${\tt QCV:}\quad {\tt QUICK\ COUPLER\ VALVE,\ AS\ SPECIFIED}.$
- HB: HOSE BIBB, AS SPECIFIED.
- SLEEVE: A CONDUIT FOR ENCOMPASSING OTHER PIPES, WIRES, CABLES, ETC. WITH THE PURPOSE OF PRESENTING EASE OF ACCESS AND/OR REPLACEMENT OF SUCH PIPES, WIRES, CABLES, ETC. WITHIN

II. MATERIALS

1. GENERAL: ALL MATERIALS AND EQUIPMENT SHALL BE SUPPLIED BY THE CONTRACTOR AND NO SUBSTITUTIONS SHALL BE ALLOWED WITHOUT THE PRIOR WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL INSPECT ALL MATERIALS AND EQUIPMENT PRIOR TO INSTALLATION AND ANY DEFECTIVE MATERIALS AND EQUIPMENT SHALL BE REPLACED WITH THE PROPER MATERIALS AND EQUIPMENT. THOSE ITEMS USED IN THE INSTALLATION THAT ARE FOUND TO BE DEFECTIVE OR IMPROPERLY INSTALLED SHALL BE REMOVED AND THE PROPER MATERIALS AND EQUIPMENT INSTALLED IN THE PROPER MANNER.

2. PVC PIPE AND FITTINGS:

1. ALL PIPE SHALL BE CLASS 160 UNPLASTICIZED POLYVINYL CHLORIDE PIPE, TYPE 1120 OR 1220, OR BETTER. PIPE FROM 2" SIZE UP OPERATING IN EXCESS OF 90 PSI SHALL BE GASKETED PIPE. SOLVENT WELD PIPE MAY BE USED IN ALL OTHER INSTANCES. OUTSIDE DIAMETER TO WALL THICKNESS RATIOS SPECIFIED IN CS 246-63 FOR STANDARD DIMENSION RATION (SDR-PR) PIPE SHALL BE MAINTAINED IN THE BARREL OF THE PIPE. MINIMUM WALL THICKNESS AT THE BELL JOINT SHALL BE AS FOLLOWS:

CLASS 160 (SDR 26)

2 1/2" 3" 4" 6" 8" 10 " .132" .159" .205" .298" .386" .480"

2. PIPE AND FITTINGS SHALL BE MADE FROM CLEAN, VIRGIN, NSF APPROVED TYPE I, GRADE I (PVC 1120) PVC, CONFORMING TO ASTM RESIN SPECIFICATION D 1784-60T.

3. ALL PIPE SHALL BE PRESSURE RATED AT HYDROSTATIC WORKING PRESSURES OF 160 PSI 73.4 DEGREES F. AND SHALL MEET REQUIREMENTS AS SET FORTH IN COMMERCIAL STANDARD CS 256-63 WITH STANDARD DIMENSION RATIO

- 3. RISERS AND SWING JOINT NIPPLES: ALL RISERS IN EXCESS OF 12" ABOVE GRADE AND/OR SWING JOINT NIPPLES SHALL BE UNPLASTICIZED POLYVINYL CHLORIDE, SCHEDULE 80, THREADED PIPE. FITTINGS ON SWING JOINTS SHALL BE MARLEX, SCHEDULE 80, THREADED ELBOWS OR STREET ELBOWS. ASSEMBLE WITH TEFLON TAPE ONLY. FOR SYSTEMS OPERATING AT LESS THAN 90 PSI, SWING JOINTS MAY BE CONSTRUCTED OF FLEXIBLE PVC AND INSERT FITTINGS AS PER PLAN DETAIL.
- 4. 110-120 VOLT ELECTRIC WIRING: ALL 120 VOLT AC WIRING SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL ELECTRIC CODES BY A LICENSED ELECTRICIAN. 110-120 VOLT SERVICE TO CONTROLLER SHALL CONSIST OF ONE BLACK AND ONE WHITE WIRE AND GROUND. ALL WIRING SHALL BE BURIED TO MINIMUM DEPTH OF 20". WIRE SHALL BE FURNISHED IN MINIMUM 2500' REELS AND SPLICED ONLY IN CONTROLLER OR VALVE BOXES. ALL SPLICES IN WIRING SHALL BE MADE WATERTIGHT.
- 5. VALVE CONTROL LINES:

1. 24 VOLT ELECTRIC - ELECTRIC CONTROL LINES FROM CONTROLLER TO AUTOMATIC VALVES SHALL BE DIRECT BURIAL UF WIRE OF A DIFFERENT COLOR THAN THE 110-120 VOLT SERVICE TO CONTROLLERS. THE 24 VOLT COMMON GROUND SHALL BE OF ONE CONTINUAL COLOR AND A DIFFERENT COLOR THAN THE OTHER 24 VOLT LINES AND THE 110-120 VOLT SERVICE. ALL WIRE SHALL BE FURNISHED IN MINIMUM 2,500' REELS AND SPLICING SHALL BE MINIMIZED, WITH SUCH SPLICES MADE WATERPROOF WITH THE USE OF WATERPROOF SCOTCHLOK OR PEN-TITE KITS. ALL 24 VOLT WIRING SHALL BE DONE IN ACCORDANCE WITH EXISTING CODES. SPLICING SHALL BE IN VALVE BOXES OR CONTROLLERS ONLY. EACH TIMECLOCK/CONTROLLER SHALL HAVE ITS OWN COMMON WIRE(S) SERVICING THAT CONTROLLER AND ALL VALVES ASSOCIATED

- 6. SPRINKLER HEADS, CONTROLLERS, AUTOMATIC VALVES: SHALL BE AS CALLED FOR ON THE IRRIGATION PLAN OR APPROVED EQUAL.
- 7. QUICK COUPLING VALVES AND/OR HOSE BIBBS: QUICK COUPLING VALVES AND KEYS OR HOSE BIBBS SHALL BE AS SPECIFIED ON THE PLANS. LOCATE AS SHOWN ON THE IRRIGATION PLAN. IF THE PLAN SPECIFIES HOSE BIBBS RATHER THAN QUICK COUPLING VALVES, PROVIDE AND INSTALL HOSE BIBBS WITHIN VALVE BOXES AS NOTED ON PLANS.
- 8. GATE VALVES:

1. GATE VALVES SHALL BE AS SPECIFIED ON THE PLANS, OR APPROVED EQUAL. EACH VALVE SHALL BE AFFORDED ACCESS THROUGH A PVC OR FIBERGLASS BOX EQUIPPED WITH COVER.

2. PROVIDE TWO (2) GATE VALVE KEYS.

3. GATE VALVES AT LINE SIZE SHALL BE LOCATED AS SHOWN ON THE CONTRACT

- PRESSURE REGULATING VALVES: COMBINATION PRESSURE REDUCING, PRESSURE SUSTAINING AND CHECK VALVES, AS MANUFACTURED BY CLA-VAL, OR APPROVED EQUAL, SHALL BE INSTALLED WHERE SHOWN ON THE IRRIGATION DESIGN PLAN. THE VALVE SHALL BE AS SIZED ON THE PLAN, DIAPHRAGM OPERATED, SINGLE SEAT, GLOBE VALVES. A MODEL XIOSL LIMIT SWITCH SHALL BE INSTALLED.
- 10. MISCELLANEOUS SYSTEM COMPONENTS: ALL MISCELLANEOUS SYSTEM COMPONENTS SHALL BE OF THE TYPE AND SIZE AS INDICATED ON THE IRRIGATION DESIGN PLAN AND DETAIL DRAWINGS.
- 11. VALVE BOXES: ALL VALVES, SPLICES WITHIN VALVE CONTROL LINES, HOSE BIBBS AND/OR QUICK COUPLER VALVES SHALL BE LOCATED WITHIN AN NDS, OR EQUAL, VALVE BOX AS FOLLOWS:

12"X17"
STANDARD RECTANGULAR VALVE BOX AND COVER MODEL NO. NDS #113PBCR FOR REUSE PURPLE AND NDS #114BC FOR GREEN.

ALL BOXES AND PITS SHALL BE FITTED WITH NDS, OR EQUAL, EXTENSIONS AS NECESSARY TO PROVIDE A MINIMUM OF 2" CLEAR SPACE BELOW THE BOTTOM OF THE VALVE, FILTER OR FITTING CONTAINED WITHIN THE BOX.

12. MAXICOM COMPONENTS: THE CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS INCLUDING MANUFACTURERS TECHNICAL DATA FOR COMPONENT PARTS OF THE MAXICOM SYSTEM. COMMENCE NO WORK BEFORE APPROVAL BY THE LANDSCAPE ARCHITECT. SEE LANDSCAPE ARCHITECTS DRAWINGS FOR REQUIRED COMPONENTS.

THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING FOR GROUNDING TESTS AND TO INSTALL ALL GROUNDING PER THE MANUFACTURERS RECOMMENDATIONS.

III. EXECUTION

- 1. GENERAL: THE CONTRACTOR SHALL DILIGENTLY FOLLOW THE MANUFACTURER'S RECOMMENDATIONS FOR INSTALLING PIPE, VALVES, SPRINKLERS AND ALL OTHER ITEMS. THE PIPE SHALL BE LAID IN TRUE, SMOOTH ALIGNMENT WITH SUFFICIENT COVER AND THRUST BLOCKING TO PREVENT EXCESSIVE MOVEMENT.
- 2. TRENCH EXCAVATION:

1. ALL TRENCHES SHALL BE EXCAVATED TO SUFFICIENT DEPTHS TO PROVIDE A MINIMUM OF 10" COVER ON LATERALS AND 18" COVER ON MAINS. (FOR THOSE LINES OPERATING LESS THAN 90 PSI.)

LINES OPERATING IN EXCESS OF 90 PSI SHALL HAVE 24" OF COVER.

2. TRENCH BOTTOM SHALL BE CLEAN AND SMOOTH WITH ALL ROCK, SOIL AND ORGANIC DEBRIS REMOVED. ALL TRENCHES SHALL BE ONLY AS WIDE AS NECESSARY TO PERMIT EASY HANDLING AND INSTALLATION OF PIPE IN THEM.

3. PIPE SHALL BE PLACED SO THAT BARREL OF PIPE AND COUPLING ARE A MINIMUM OF 2" ABOVE HIGH POINTS OF THE TRENCH BOTTOM.

- 3. ROCK EXCAVATION: IN THE EVENT LEDGE ROCK, BOULDERS, STUMPS, OR OTHER OBSTRUCTION IS ENCOUNTERED IN EXCAVATION OF THE TRENCHES, WHICH CAN NOT BE REMOVED BY THE EQUIPMENT IN USE OR TRACTOR MOUNTED BACKHOE, THE CONTRACTOR SHALL ADJUST THE LINE OR THE TRENCH TO CIRCUMVENT IT, AS PART OF HIS WORK. IF THE OBSTRUCTION CAN NOT BE AVOIDED, THE CONTRACTOR SHALL REMOVE IT BY BLASTING.
- BEDDING MATERIAL: EXCAVATED MATERIAL, EXCEPT IN THE CASE OF EXCAVATED ROCK, IS USUALLY SATISFACTORY FOR BEDDING OF PIPE.
- THRUST BLOCKS:

1. THRUST BLOCKS SHALL BE CONSTRUCTED BEHIND ALL MAINLINE FITTINGS, TEES, BENDS, REDUCERS, LINE VALVES, PLUGS, CAPS, ETC., IN ACCORDANCE WITH PIPE MANUFACTURER'S RECOMMENDATIONS AND PLAN DETAILS.

2. THRUST BLOCK SHALL BEAR AGAINST UNDISTURBED EARTH, AND, IN CASE THIS IS NOT POSSIBLE, THEY SHALL BE MADE CORRESPONDINGLY LARGER.

3. THRUST BLOCKS SHALL BE SO PLACED AS NOT TO INTERFERE WITH REPAIR TO JOINTS AND COUPLINGS AND SHALL BE A CONCRETE MIX CONSISTING OF ONE PART CEMENT, TWO PARTS SAND AND FIVE PARTS GRAVEL, MIXED AND PLACED FAIRLY DRY SO THEY MAY BE SHAPED EASILY. NO PRECAST UNITS SHALL BE USED.

6. GATE VALVES:

1. ALL VALVES SHALL BE CLOSED AT TIME OF INSTALLATION AND SHALL BE SET PLUMB. REACH WELLS SHALL BE INSTALLED SO THAT LID IS SET 1/2" BELOW FINISHED GRADE. GATE VALVES SHALL BE LOCATED AS SHOWN ON THE PLANS AND OF A SIZE EQUAL TO THE PIPELINE ON WHICH IT IS INSTALLED.

2. GATE VALVES SHALL BE INSTALLED SO THE LOWER END RESTS FIRMLY ON THE GROUND AND SHALL BE DESIGNED TO WITHSTAND 2,000 LBS. WITHOUT FAILING

7. BACKFILL:

1. AFTER PROPER BEDDING OF PIPE IS ACHIEVED, THE BALANCE OF BACKFILL SHALL BE PLACED AND SUITABLY COMPACTED BY TAMPING MECHANICALLY OR HYDRAULICALLY TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT. BACKFILL WITHIN AREAS TO BE PAVED OVER SHALL BE COMPACTED TO 98% MODIFIED PROCTOR MAXIMUM DENSITY. TESTING, IF REQUIRED, WILL BE AT THE OWNER'S EXPENSE FOR ALL PASSED TESTS; ALL FAILED TESTS WILL BE BACK CHARGED TO THE CONTRACTOR.

2. NO LINES SHALL BE COVERED UNTIL THEY HAVE BEEN PASSED BY INSPECTION HEREINAFTER DESCRIBED, EXCEPT THAT LINES MAY BE COVERED WITH ALL JOINTS LEFT OPEN FOR INSPECTION.

- 3. IN THE CASE OF CUTTING OF PAVED ROADS OR DRIVES, ALL BACK FILL SHALL BE COMPACTED AND THE TOP 6" OF BACK FILL SHALL BE POURED IN 3,000 PSI CONCRETE. THE FINAL PATCH SHALL BE MADE TO MATCH THE GRADE AND MATERIAL OF THE ADJACENT FINISH ROAD OR DRIVE.
- 8. TURF AREA HEADS: HEADS IN LAWN AREAS SHALL BE SET FLUSH WITH SOD. ALL OTHER HEADS SHALL BE ADJUSTED TO SOD HEIGHT AFTER INSTALLATION OF SOD OR SEEDING OPERATIONS.
- 9. PLANTING & GROUNDCOVER AREA HEADS: HEADS IN PLANTING AREAS SHALL HAVE A CONCRETE MUD SUPPORT 8" IN DIAMETER AND 4" DEEP PLACED 2" BELOW GRADE AND ABOVE GRADE FOR ALL RISERS OF 24" OR GREATER IN HEIGHT. HEADS IN PLANTING AND GROUNDCOVER AREAS SHALL BE STUBBED 24" ABOVE GRADE AND HEIGHT ADJUSTED AFTER PLANTING OPERATIONS ARE COMPLETE. ALL RISERS SHALL BE CLEARLY MARKED BY 18" STAKES WITH BLUE ENGINEER'S FLAG ATTACHED. STAKES SHALL BE MAINTAINED THROUGHOUT THE JOB AND REMOVED AT COMPLETION AS DIRECTED.
- 10. PIPING: PIPING SHALL RUN AS STRAIGHT AS POSSIBLE. PIPE SHALL BE CUT SQUARE, PROPERLY REAMED TO REMOVE CONSTRICTIONS OR BURRS BEFORE MAKING UP JOINTS. ALL MAINS AND LATERALS SHALL BE THOROUGHLY FLUSHED BEFORE VALVES OR HEADS ARE INSTALLED.

ALL RISERS WITHIN PLANTING AND GROUNDCOVER ARES SHALL BE PAINTED FLAT BLACK WITH A PAINT WHICH ADHERES WELL TO PVC.

- 11. EXISTING INSTALLATIONS: IN ANY INSTANCE WHERE THE CONTRACTOR IS REQUIRED TO CUT INTO ANY EXISTING IRRIGATION INSTALLATION FOR THE PURPOSE OF REPAIR AND/OR CONNECTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FLUSHING AND TESTING OF ALL LINES AND CLEANING OF ALL HEADS, NOZZLES, AND COMPONENTS WHICH MAY BE AFFECTED BY SUCH CUT. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO IMMEDIATELY REPORT ANY DAMAGE SUBSEQUENT TO SUCH CUTS OR REPAIRS TO THE LANDSCAPE LANDSCAPE ARCHITECT SO THAT PROPER RESOLUTION OF THE DAMAGE MAY BE DETERMINED. WHEN INTERFACING WITH EXISTING IRRIGATION SYSTEMS IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SCHEDULE HIS WORK IN SUCH A MANNER THAT THE EXISTING SYSTEM WILL REMAIN OPERATIONAL FOR THE GREATEST LENGTH OF TIME POSSIBLE. THE CONTRACTOR SHALL KEEP THE OWNER AND LANDSCAPE LANDSCAPE ARCHITECT APPRAISED OF HIS SCHEDULE IN THIS MATTER.
- 12. RESTORATION: ANY AREAS THAT HAVE BEEN DISTURBED MUST BE FULLY RESTORED. CONTRACTOR TO RAKE OUT AND SEED OR SOD AREAS DISTURBED BY TRENCHES AND IRRIGATION INSTALLATION. AREAS UNDER 12" IN WIDTH SHALL BE SEEDED. AREAS OVER 12" IN WIDTH SHALL BE SODDED. SEED OR SOD SHALL MATCH EXISTING TURF.

13. HYDROSTATIC TESTING: AFTER THE PIPE HAS BEEN LAID AND BACKFILLED, THE MAIN LINE PIPE SHALL BE HYDROSTATICALLY TESTED FOR LEAKAGE. THE CONTRACTOR SHALL FURNISH THE PUMP, PIPE CONNECTION, BLOW OFF VALVES AND ANY OTHER NECESSARY APPARATUS INCLUDING GAUGES AND METERS AND ALL PERSONNEL NECESSARY FOR CONDUCTING THE TEST. BEFORE APPLYING THE TEST PRESSURE, ALL AIR SHALL BE EXPELLED FROM THE PIPE. IF NECESSARY, THREADED TAPS SHALL BE MADE AT THE POINTS OF HIGHER ELEVATIONS AND THEN CLOSED WITH PLUGS.

WHEN PRACTICAL, TESTS SHALL BE MADE ON SECTIONS BETWEEN VALVES, OR SECTIONS NOT EXCEEDING 2,000 FEET IN LENGTH. DEAD ENDS, BENDS OR OTHER FITTINGS SHALL HAVE A FIRM FOUNDATION AND BE SECURELY BLOCKED AGAINST THE TRENCH WALLS BEFORE TESTING OR COMPLETING THE BACKFILL AS SPECIFIED.

THE FULL TEST PRESSURE OF 65 POUNDS PER SQUARE INCH (PSI) SHALL BE HELD FOR NO LESS THAN TWO HOURS OR LONGER AS NECESSARY TO PERMIT THOROUGH EXAMINATION OF ALL EXPOSED JOINTS IN THE SECTION OF MAIN BEING TESTED. TEST PRESSURE SHALL BE MAINTAINED AT 65 PSI BY PUMPING WATER INTO THE PIPE IN ACCORDANCE WITH THE REQUIREMENTS OF AWWA C600.

LEAKAGE SHALL BE MEASURED BY THE QUANTITY OF WATER PUMPED INTO THE PIPE TO MAINTAIN TEST PRESSURE DURING TEST PERIOD. MAXIMUM PERMISSIBLE LEAKAGE SHALL BE LESS THAN THE NUMBER OF GALLONS PER HOUR DETERMINED BY THE FOLLOWING FORMULA:

L= (S X D X (P).5)/133200

- L = ALLOWABLE LEAKAGE IN GPH
- S = LENGTH OF SECTION TESTED, IN FEET
- D = NOMINAL DIAMETER OF THE PIPE IN INCHES
 P = AVERAGE PRESSURE MAINTAINED DURING THE LEAKAGE
 TEST IN PSI. THE TEST PRESSURE SHALL BE SIXTY FIVE
 (86) PSI

WATER FOR TESTING SHALL BE OBTAINED FROM AN APPROVED WATER SOURCE. THE CONTRACTOR SHALL PROVIDE ALL WATER REQUIRED AT HIS OWN EXPENSE AND SHALL MAKE ALL NECESSARY ARRANGEMENTS WITH THE AUTHORITY WHICH CONTROLS THE SOURCE OF WATER SYSTEM AND SHALL BE GOVERNED IN HIS USE OF WATER BY ALL RULES AND REGULATIONS IMPOSED THEREON BY SAID AUTHORITY. THE CONTRACTOR SHALL PROVIDE AND REMOVE TEMPORARY CONNECTIONS BETWEEN THE SOURCE WATER SYSTEM AND THE MAINS CONSTRUCTED UNDER THIS CONTRACT. ALL TEMPORARY CONNECTIONS SHALL MEET THE APPROVAL OF THE LANDSCAPE ARCHITECT, THE AUTHORITY CONTROLLING THE SOURCE WATER SYSTEM AND PUBLIC HEALTH AUTHORITIES HAVING JURISDICTION.

ALL LEAKS SHALL BE LOCATED AND REPAIRED UNTIL THE TEST MEETS THE ABOVE REQUIREMENTS. ANY FAULTY FITTINGS, VALVES OR OTHER ACCESSORIES WHICH LEAK DURING TESTING SHALL BE REPEATED AS SPECIFIED ABOVE. ANY REPLACEMENT OF FAULTY MATERIAL OR RETESTING SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

END OF SECTION 2-0274

BEFORE YOU DIG

IT'S THE LAW!
DIAL 811

Know what's below.
Call before you di

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

SITE DEVELOPMENT PLANS FOR:

TOWN CENTER IMPROVEMENTS - OUTDOOR VENUE

TOWN OF LONGBOAT KEY, FL

 PROJECT NO.
 2021-27

 SCALE
 AS NOTED

 DATE
 05-03-2021

 DRAWN BY
 JA

 ISSUED
 05-04-2021

REVISIONS											
NO.	DESCRIPTION		INIT.	NO.	DESCRIPTION	INIT.					
1	REV. PER TLBK	08-16-2021	bpk	**	REVISION 1 - BLDG. COMMENTS & GENERAL REVISIONS 11-02-2022	JL					
2	REV. PER CIVIL	11-02-2021	KJ								
3	REV. PER CIVIL	11-08-2021	KJ								
4	REV. PER CIVIL	03-31-2022	KJ								
•	•										

IRRIGATION
SPECIFICATIONS

ILLIP J. SMITH, R.L.A. #1096

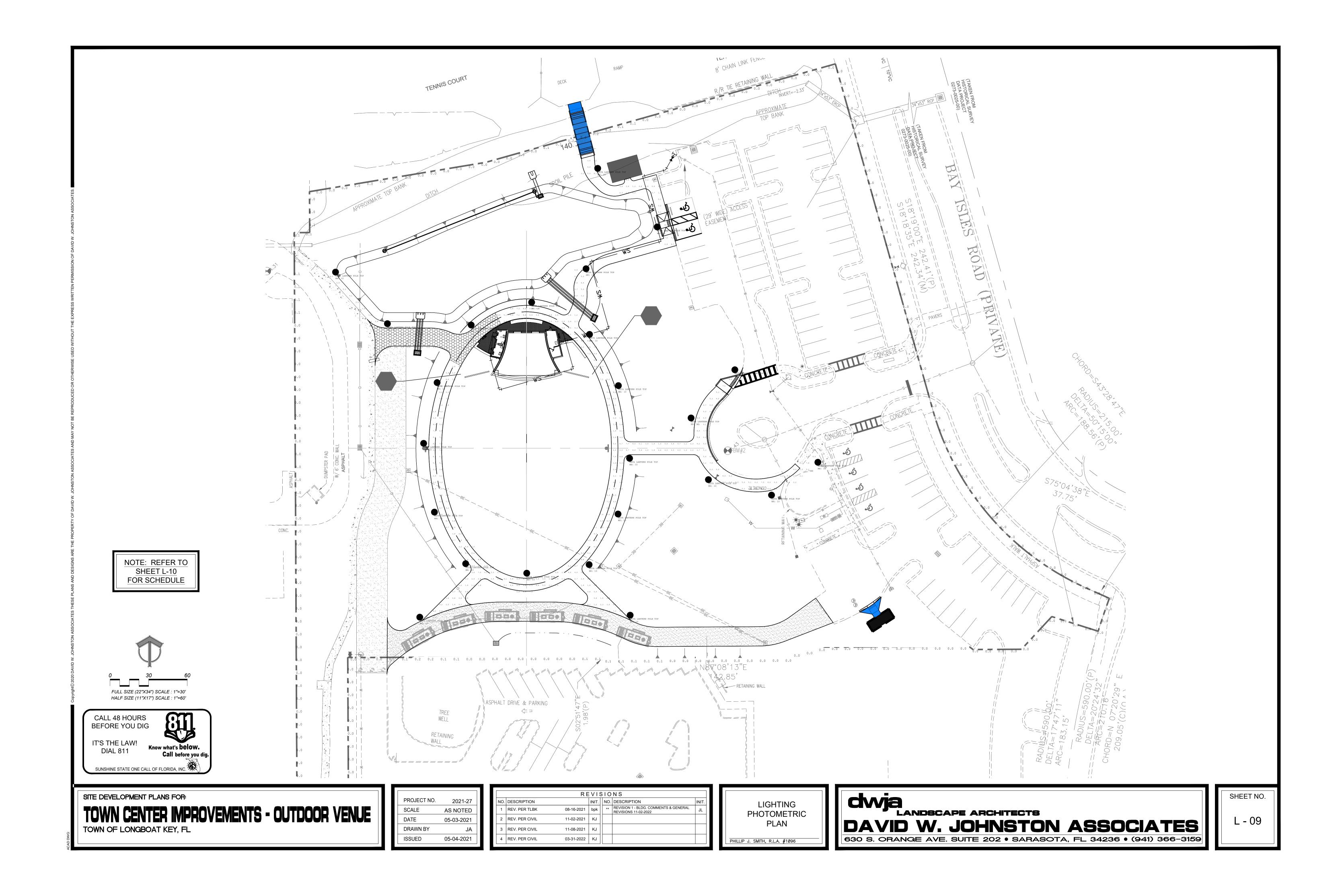
CAVIA
LANDSCAPE ARCHITECTS

DAVID W. JOHNSTON ASSOCIATES

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L - 08

SHEET NO.



Luminaire Sc	hedule								
Symbol	Qty	Label	Arrangement	LLF	Description	Lum. Watts	Total Watts	Lum. Lumens	BUG Rating
	24	BETA LANTERN POLE TOP	Single	1.000	SELUX BLL-X-R3-5G105-30-XX-UNV	94.47	2267.28	8070	B2-U0-G2

Calculation Summary						
Label	CalcType	Units	Avg	Max	Min	Description
BOUNDARY	Illuminance	Fc	0.02	0.2	0.0	HORIZONTAL LINE OF CALCULATION AT ZERO FT AFG
SIDE WALK	Illuminance	FC	5.22	9.6	0.2	HORIZONTAL PLANE OF CALCULATION AT SURFACE OF SIDE WALK

Object Summary						
Label	Type	Description				
BUILDING	Polygon-Flat	BUILDING AT20 FTT AFG REFLECTANCE 20%				
BUILDING_1	Polygon-Flat	BUILDING AT20 FTT AFG REFLECTANCE 20%				

NOTES:

1. SEE SCHEDULE FOR LUMINAIRE SPECIFICATIONS. LUMINAIRE SYMBOLS ARE NOT TO SCALE.
2. LIGHTING PHOTOMETRICS PREPARED BY ENVISION LIGHTING.
3. EXTERIOR LIGHTING INSTALLED SHALL MEET THE REQUIREMENTS OF CITY CODE.
4. ELECTRICAL CONTRACTOR TO VERIFY EXACT VOLTAGE PRIOR TO ORDERING FIXTURES.
5. CONTACT DANNY HACKMAN AT ENVISION LIGHTING (727) 543-9845.

SITE DEVELOPMENT PLANS FOR:

TOWN CENTER IMPROVEMENTS - OUTDOOR VENUE TOWN OF LONGBOAT KEY, FL

PROJECT NO.	2021-27
SCALE	AS NOTED
DATE	05-03-2021
DRAWN BY	JA
ISSUED	05-04-2021

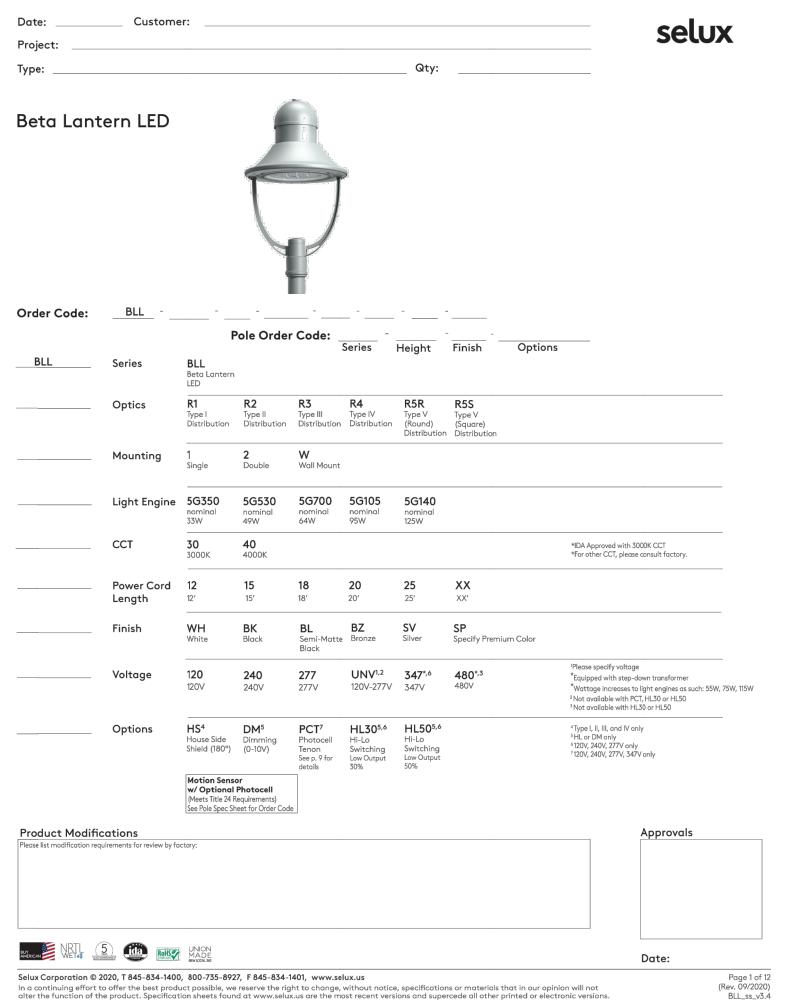
		RE	VIS	SIO	NS	
NO.	DESCRIPTION		INIT.	NO.	DESCRIPTION	INIT.
1	REV. PER TLBK	08-16-2021	bpk	**	REVISION 1 - BLDG. COMMENTS & GENERAL REVISIONS 11-02-2022	JL
2	REV. PER CIVIL	11-02-2021	KJ			
3	REV. PER CIVIL	11-08-2021	KJ			
4	REV. PER CIVIL	03-31-2022	KJ			

LIGHTING SCHEDULE PHILLIP J. SMITH, R.L.A. #1096



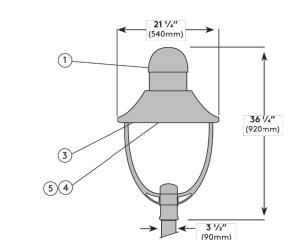
SHEET NO.

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BLL num shade with hinged door for access to LED high quality Polyester Powder Coating. All Selux light engine. hours. L70 calculated greater than 100,000 for coatings from ASTM and PCI. hours. Exposed face rated to IP65.

Beta Lantern LED



screws. For 3 1/2" (90mm) O.D. pole.

Drylac certified facility and undergo a five stage

Specifications

num fixture cap. 2. Gasketing - (Not shown) Continuous molded 8. Pole Fitter - Cast aluminum fitter secures

gaskets provide weatherproofing, dust, and insect control. **3. Fixture Hood -** Decorative low-copper alumi- **Exterior Luminaire Finish -** Selux utilizes a

4. LED Array - High Flux LEDs mounted to metal intensive pretreatment process where product core PCB and attached to external heat sink is thoroughly cleaned, phosphated and sealed. for maximum LED performance and life. CCT tolerance within a 3 step bin and provided with salt and humidity resistance as well as ultra a minimum CRI of 80. LED light engine has a violet resistance for color retention. All products

5. LED Optics - (not shown) Technical Optics (BK), Semi-Matte Black (BL), Bronze (BZ), and **please consult the factory.** (R1, R2, R3, R4, R5S and R5R) use Selux signa-Silver (SV). Selux premium colors (SP) are availture light pattern acrylic lens holder to secure able, please specify from your Selux color selecproprietary silicone optics. Internal micro house tion guide. side shield available for distributions types I, II,

6. LED Driver - (not shown) LEDs are driven by RoHS compliant constant current programmable LED driver. Driver includes 0-10V dimming to 10%, meets the requirements of IP66. Driver assembly located inside the head and accessible through the the hinged door.

1. Fixture Cap - Decorative low-copper alumi7. Surge Protection - (not shown) Designed to
5 Year Limited LED Luminaire Warranty -Selux offers a 5 Year Limited Warranty to the protect luminaire from electrical surge (20kA).

original purchaser that the Beta Lantern LED luminaire shall be free from defects in material and workmanship for up to five (5) years from to pole with two stainless steel Allen head set date of shipment. This limited warranty covers the fixture, LED driver and LED light engine when installed and operated according to Selux instructions. Fixture suitable for ambient temperature of 40° C (104° F). For details and excluluminaires and poles are finished in our Tiger

selux

Listings and Ratings: Tested to IESNA LM-79-08 and LM-80 test standards at 25° C ambient Selux powder coated products provide excellent temperature. Rated for wet location.

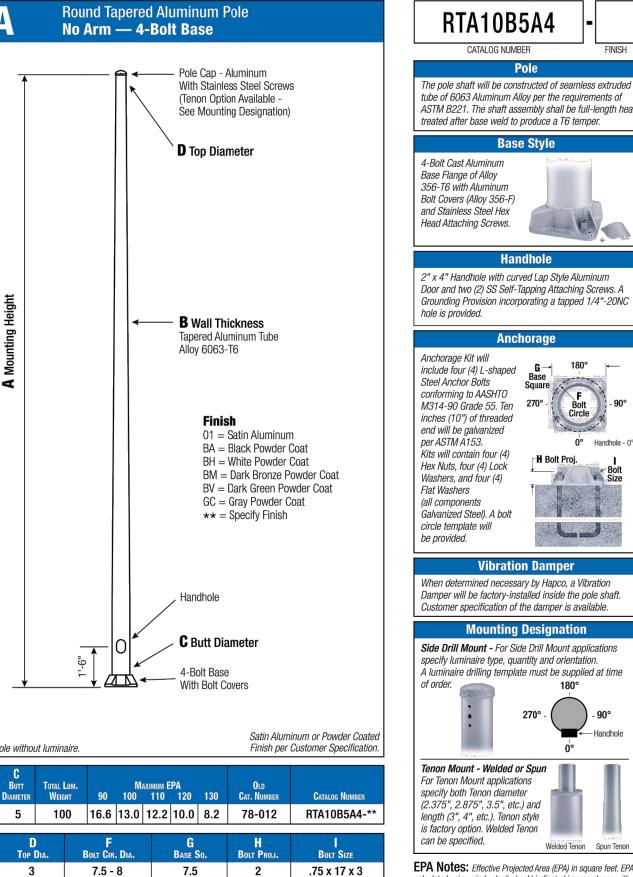
sions, see "Selux Terms and Condition of Sale."

reported lumen maintenance of 98% at 50,000 are tested in accordance with test specifications Visit selux.us for our LED End of Life recycling policy.

Standard exterior colors are White (WH), Black For Buy American compliance on poles,

Round Tapered Aluminum Pole No Arm — 4-Bolt Base Pole Cap - Aluminum With Stainless Steel Screws (Tenon Option Available -See Mounting Designation) **D** Top Diameter B Wall Thickness Tapered Aluminum Tube Alloy 6063-T6 01 = Satin Aluminum BA = Black Powder Coat BH = White Powder Coat BM = Dark Bronze Powder Coat BV = Dark Green Powder Coat GC = Gray Powder Coat ** = Specify Finish C Butt Diameter 4-Bolt Base With Bolt Covers WARNING: Satin Aluminum or Powder Coated Finish per Customer Specification. Do not install light pole without luminaire. 10 0.125" 5 100 16.6 13.0 12.2 10.0 8.2 78-012 RTA10B5A4-**

Location:



When determined necessary by Hapco, a Vibration Customer specification of the damper is available. Side Drill Mount - For Side Drill Mount applications specify luminaire type, quantity and orientation. A luminaire drilling template must be supplied at time 270° - () - 90° Tenon Mount - Welded or Spun For Tenon Mount applications specify both Tenon diameter (2.375" 2.875" 3.5" etc.) and lenath (3", 4", etc.), Tenon style is factory option. Welded Tenon can be specified.

Bolt Size

Base Style

EPA Notes: Effective Projected Area (EPA) in square feet. EPA's

calculated using wind velocity (mph) indicated in accordance with 2009 AASHTO LTS-5 using a 25 year design life. Maximum EPA is based on the luminaire weight shown. Increased luminaire weight may reduce the maximum EPA. If weight is exceeded, or if other design life or code is required, please consult the factory.

Selux Corporation © 2020, T 845-834-1400, 800-735-8927, F 845-834-1401, www.selux.us In a continuing effort to offer the best product possible, we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product. Specification sheets found at www.selux.us are the most recent versions and supercede all other printed or electronic versions. Page 2 of 12 (Rev. 09/2020) BLL_ss_v3.4

Customer Name:

Project:

SITE DEVELOPMENT PLANS FOR:

TOWN OF LONGBOAT KEY, FL

TOWN CENTER IMPROVEMENTS - OUTDOOR VENUE

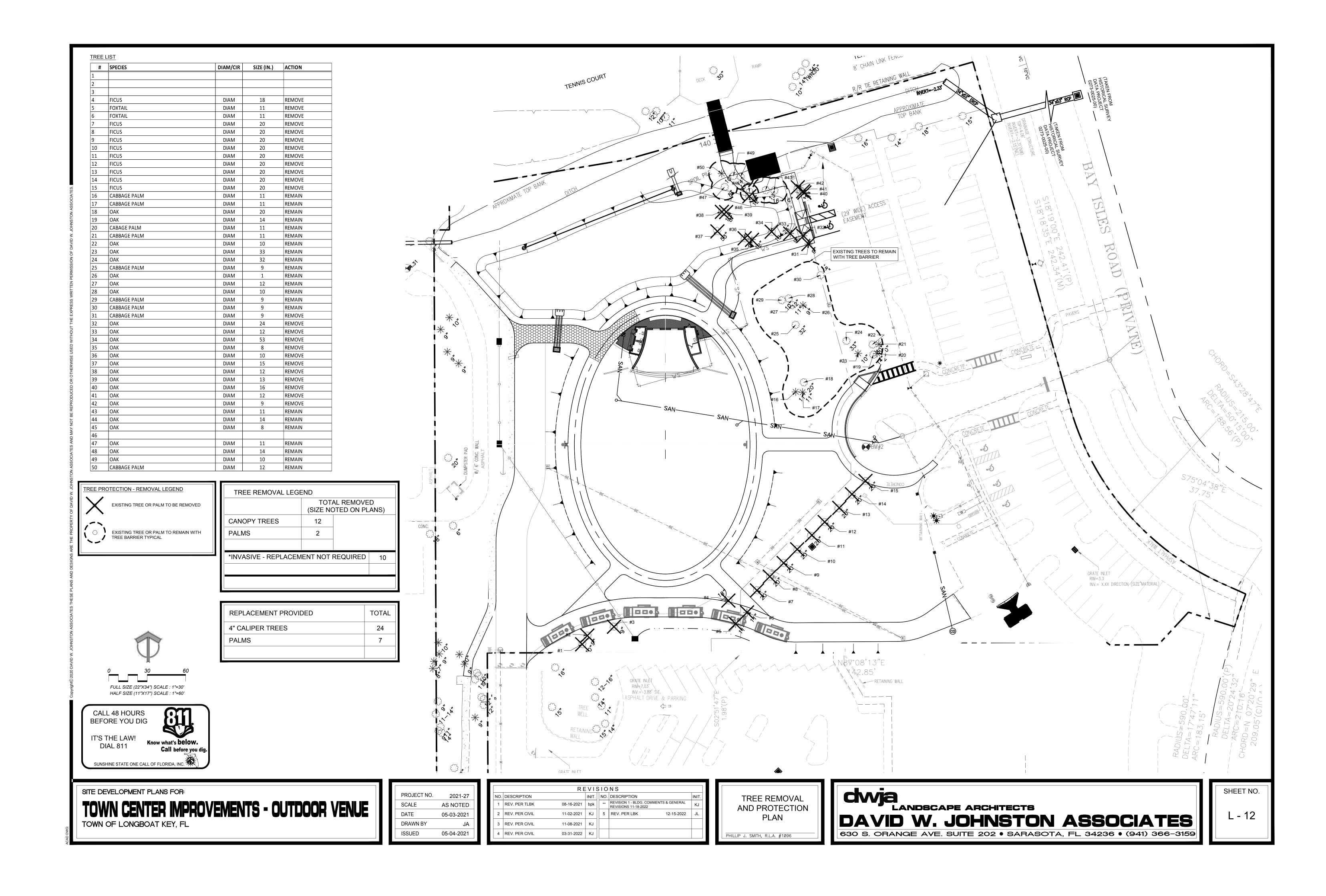
2021-27 SCALE AS NOTED 05-03-2021 DRAWN BY 05-04-2021 ISSUED

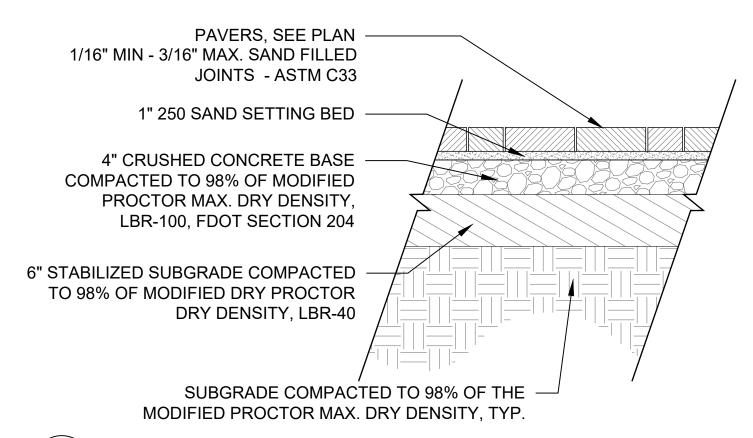
REVISIONS INIT. NO. DESCRIPTION O DESCRIPTION 08-16-2021 bpk ** REVISION 1 - BLDG. COMMENTS & GENERAL REVISIONS 11-02-2022 REV. PER TLBK REV. PER CIVIL 11-02-2021 KJ REV. PER CIVIL 11-08-2021 KJ REV. PER CIVIL 03-31-2022 KJ

LIGHTING **CUT-SHEETS** dvja LANDSCAPE ARCHITECTS DAVID W. JOHNSTON ASSOCIATES 630 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 366-3159

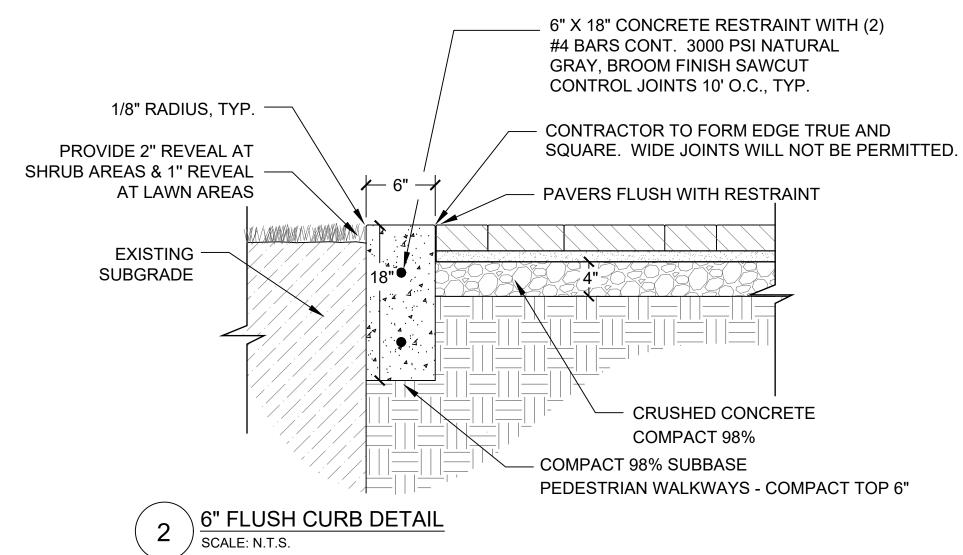
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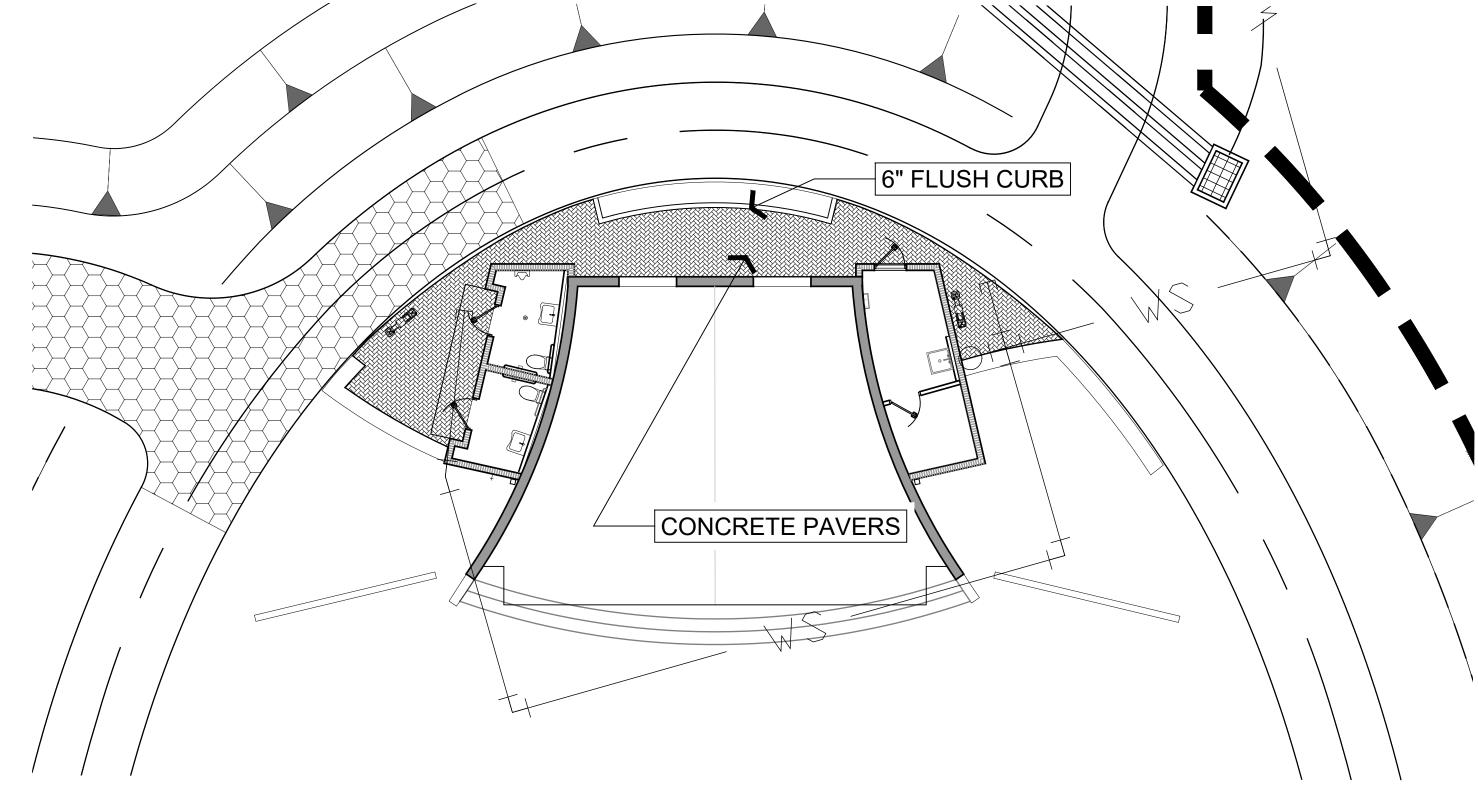
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CONCRETE PAVER SECTION DETAIL - PEDESTRIAN SCALE: N.T.S.

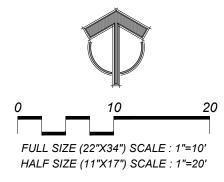


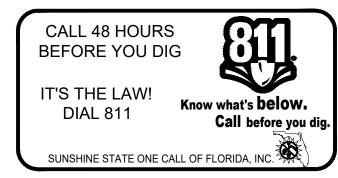


Concrete Pavers Size & Type: 4" x 8" x $2\frac{3}{8}$ " Brick Paver Pattern: Herringbone on a 45

Manufacturer: Tremron

Color: TBD, White Cement base





SITE DEVELOPMENT PLANS FOR:

TOWN CENTER IMPROVEMENTS - OUTDOOR VENUE

TOWN OF LONGBOAT KEY, FL

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HARDSCAPE PLAN
PHILLIP J. SMITH, R.L.A. #1096

CVJA LANDSCAPE ARCHITECTS
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SHEET NO.

L - 13