

M E M O R A N D U M

TO: Howard Tipton, Town Manager

FROM: Allen Parsons, AICP,
Director – Planning, Zoning & Building Department

REPORT DATE: January 18, 2023

MEETING DATE: February 6, 2023

SUBJECT: Ordinance 2023-03, Amending Bay Isles Planned Unit Development/Outline Development Plan (PUD/ODP), and Site Development Plan Order 2023-01, for Town Center Green, 600 Bay Isles Road

Recommended Action

Forward Ordinance 2023-03 and Site Development Plan Order 2023-01 to the March 6, 2023 Regular Meeting for second reading and public hearing.

Background

The Public Works Department (Applicant) on behalf of the Town of Longboat Key (Owner), is seeking approval of a Planned Unit Development/Outline Development Plan (PUD/ODP) Amendment to define the allowable uses, consistent with the Town Commission's (Commission's) direction, associated with the Town's phased development of the Town Center Green site. The PUD/ODP requires an associated and Site Development Plan Amendment that contains the more-detailed plans consistent the direction and prior adoption of a concept plan for the site, which includes the construction of a pavilion, stage, and accessory structures. These applications will fully entitle the current 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.

This application was presented to the Planning & Zoning Board (P&Z Board) at their January 17, 2023 Regular Meeting, where the P&Z Board considered Ordinance 2023-03 and Site Development Plan Order 2023-01 and recommended approval of both (6-0). As noted in the attached P&Z Board Staff Report (Attachment A), Staff recommended approval of the applications and is supportive of subsequent amendment to Condition #7 that was discussed during the P&Z Board hearing, and is described further below.

The P&Z Board discussed concerns regarding the number of on-site parking spaces and traffic related to the lack of on-site parking during special events. As part of the technical review of the applications, the Town's third-party transportation consultant reviewed the Owner's Traffic Impact Analysis and recommended including a condition of approval that would require a, "Special Event Transportation Management Plan" for special events that would exceed the amount of on-site parking available. The P&Z Board strongly recommended including Condition #7. The P&Z Board also recommended the following revision (underlined) to the condition to provide clarity for implementation:

“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 by the Town of Longboat Key in the plan are:

- a. Site access and circulation*
- b. 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*
- c. Public information*
- d. Police control at intersections*
- e. Signage*
- f. Pedestrian management”*

Usage of the Town Center Green property for Special Events will be handled, similar to other public properties, via the issuance Public Forum Permits or Rental Agreements, which will provide appropriate mechanisms for implementation of this condition. Specific requirements for the Public Forums Permit and definitions of terms, such as special events, are outlined in Town Code Section 92.06.

P&Z Board Recommendation

Planned Unit Development/Outline Development Plan (Ordinance 2023-03)

The P&Z Board voted 6-0 to recommend approval of the PUD and ODP.

Final Site Development Plan (Site Development Plan Order 2023-01)

The P&Z Board voted 6-0 to recommend approval of the Final Site Development Plan, with Ordinance 2023-03.

A full copy of the materials distributed to the P&Z Board, including the detailed Staff analysis and the Applicant’s materials can be found in Attachment A. Ordinance 2023-03 and Site Development Plan Order 2023-01, reflecting the P&Z Board’s recommendations, are provided in Attachments B and C.

Staff Recommendation

Forward Ordinance 2023-03 and Site Development Plan Order 2023-01 to the March 6, 2023 Regular Meeting for second reading and public hearing.

Attachments

- A. Materials Distributed to P&Z Board on January 17, 2023;
- B. Proposed Ordinance 2023-03 (pursuant to P&Z Board recommendation);
- C. Proposed Site Development Plan Order 2023-01 (pursuant to P&Z Board recommendation); and
- D. PowerPoint Presentation.

**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%)

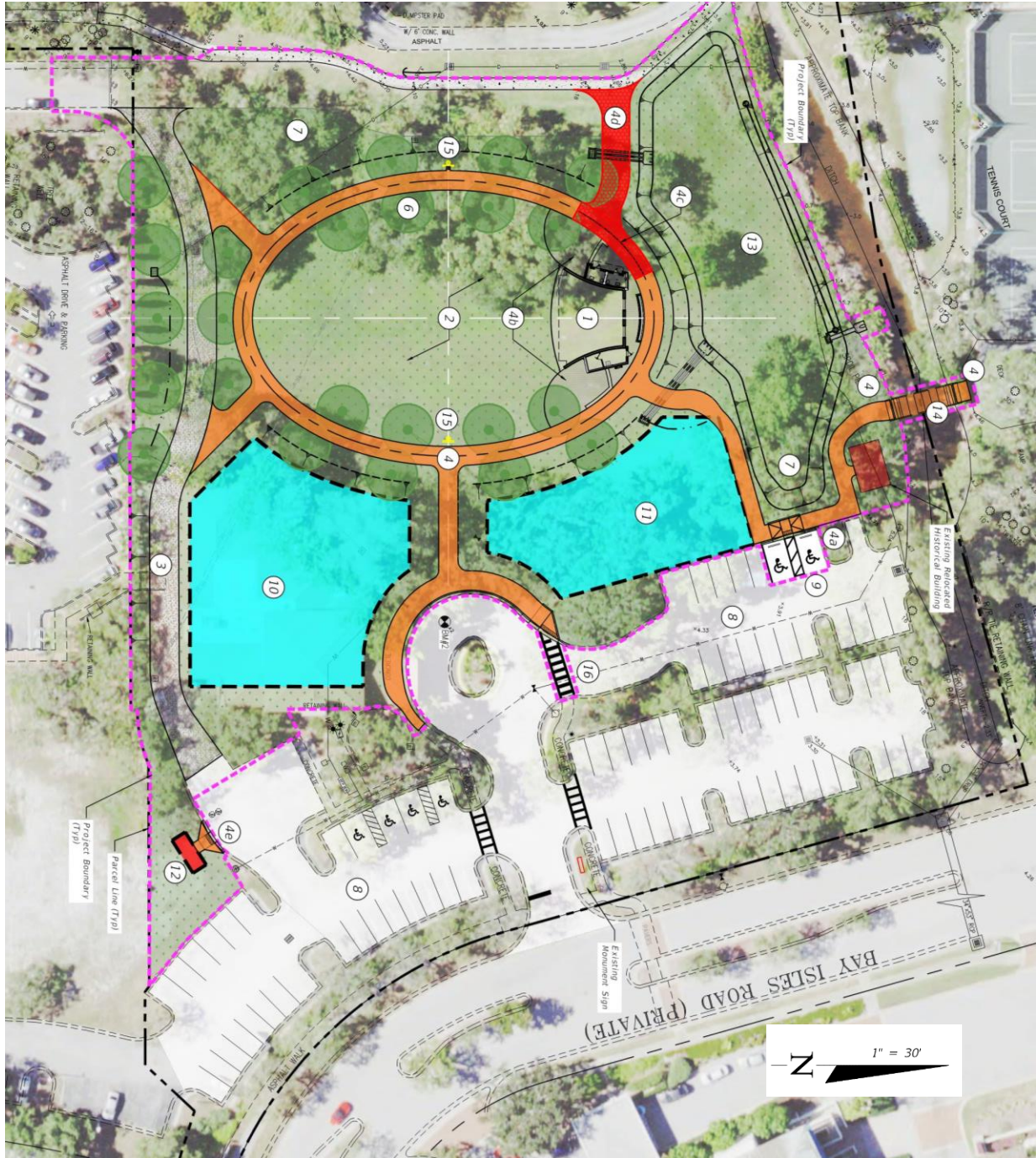
OPEN SPACE: 134,033 square feet (64%)

PARKING REQUIRED 8 parking spaces

PARKING PROVIDED 81 parking spaces

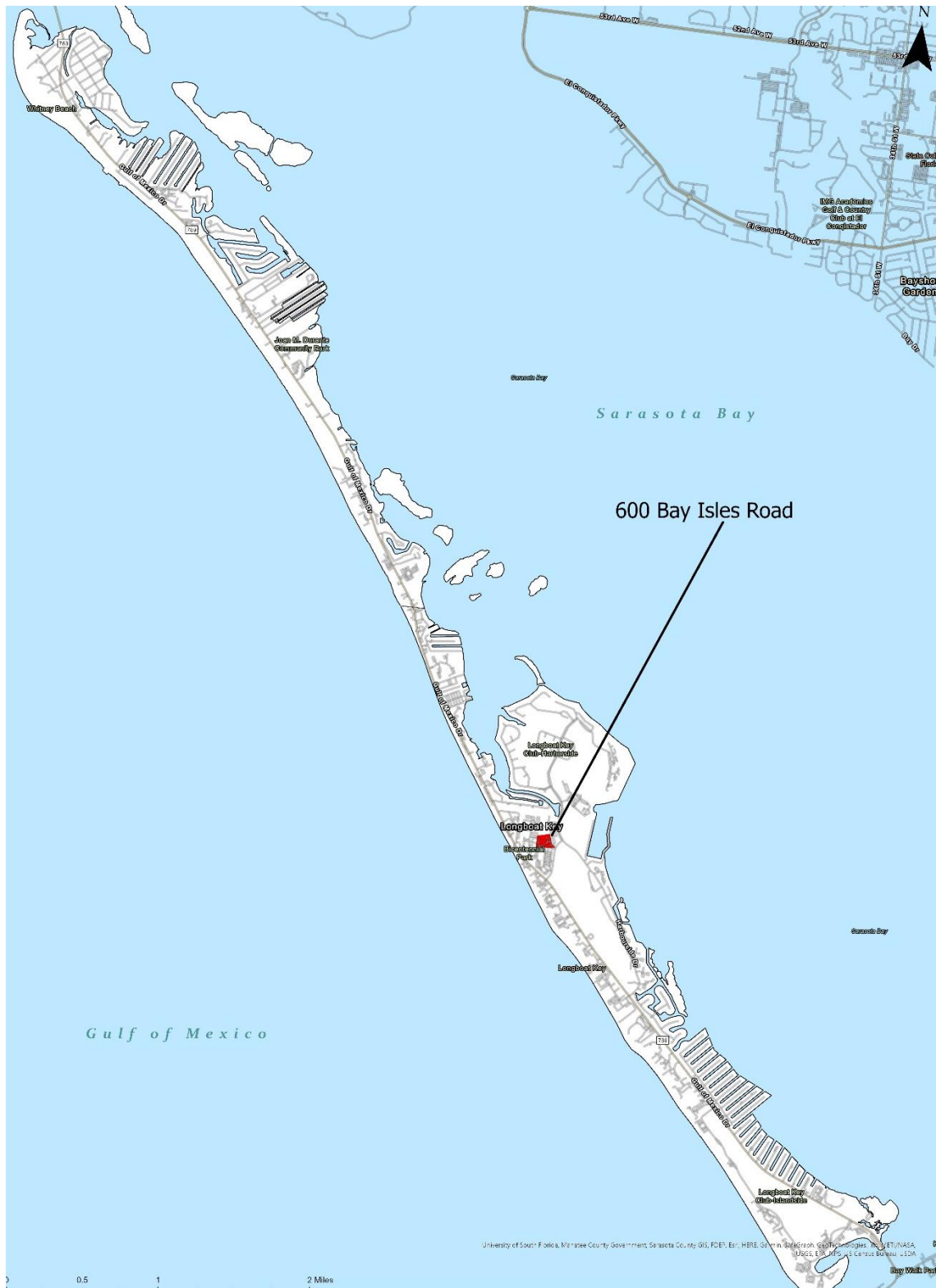
USES..... Government Building, Continuing Education Center, Civic Center, Public Park and Recreation Center, and Cultural Center

Site Development Plan

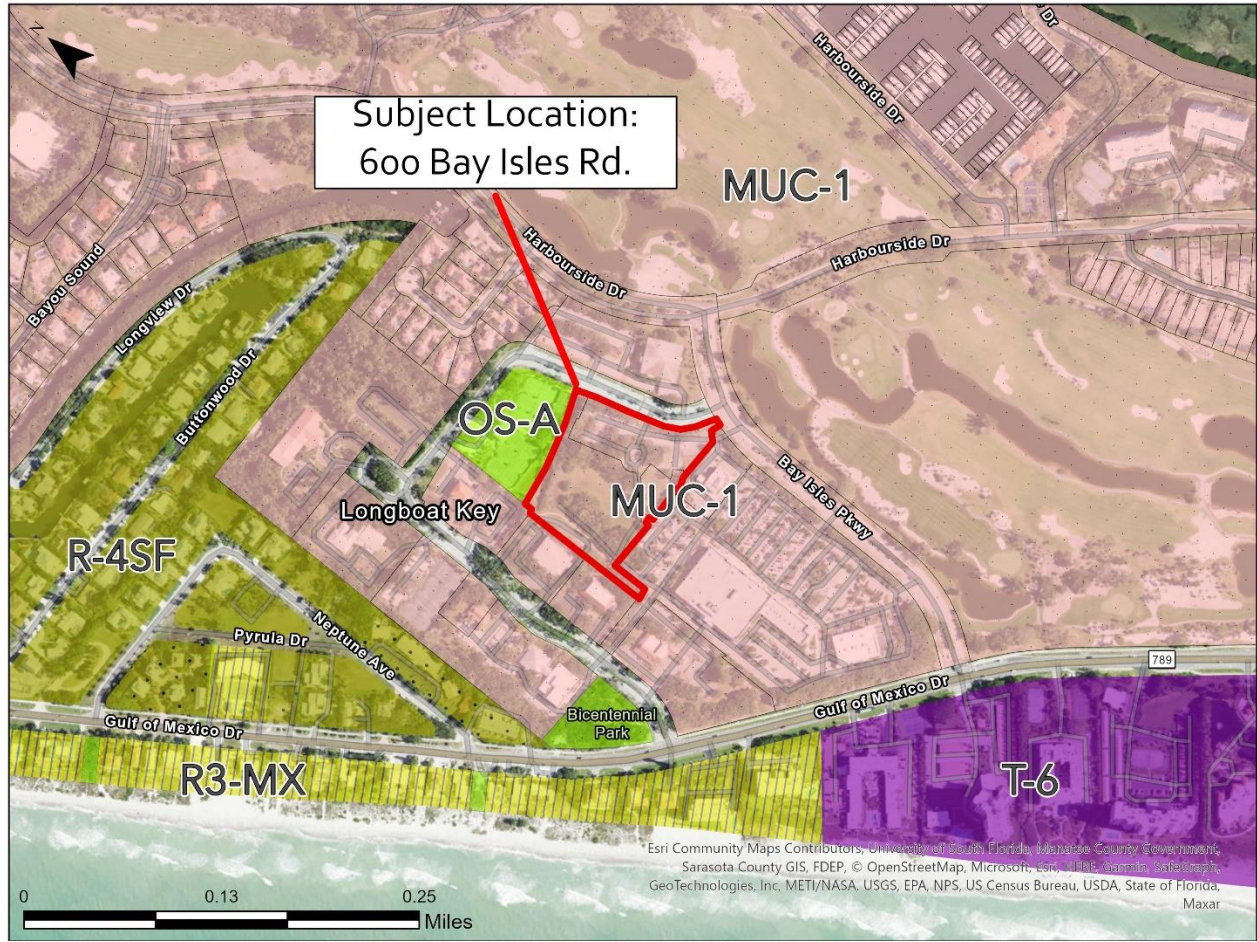


Location and Map Series

The site is located at 600 Bay Isles Road.



Zoning Map

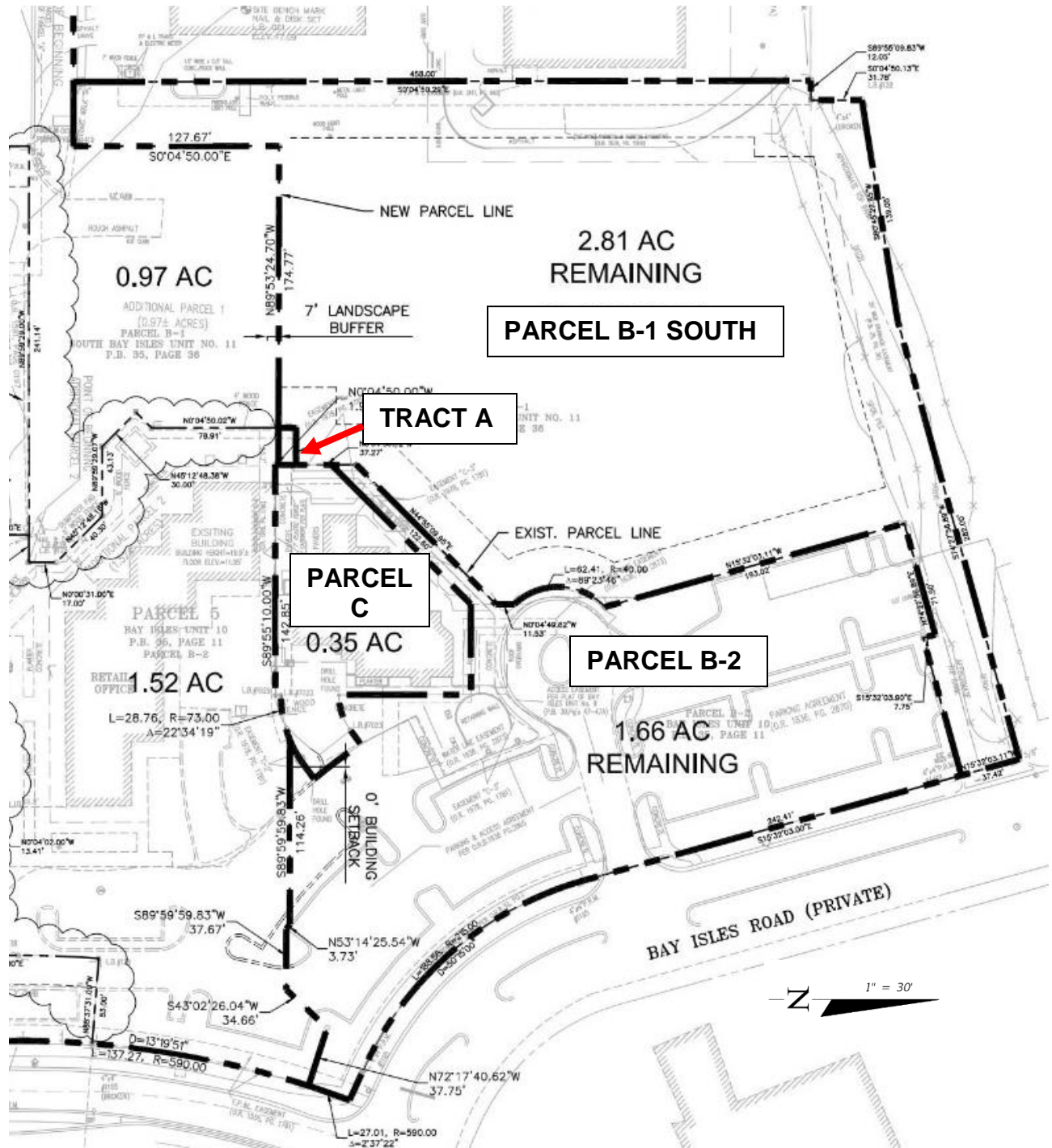


Aerial Map



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.



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

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.

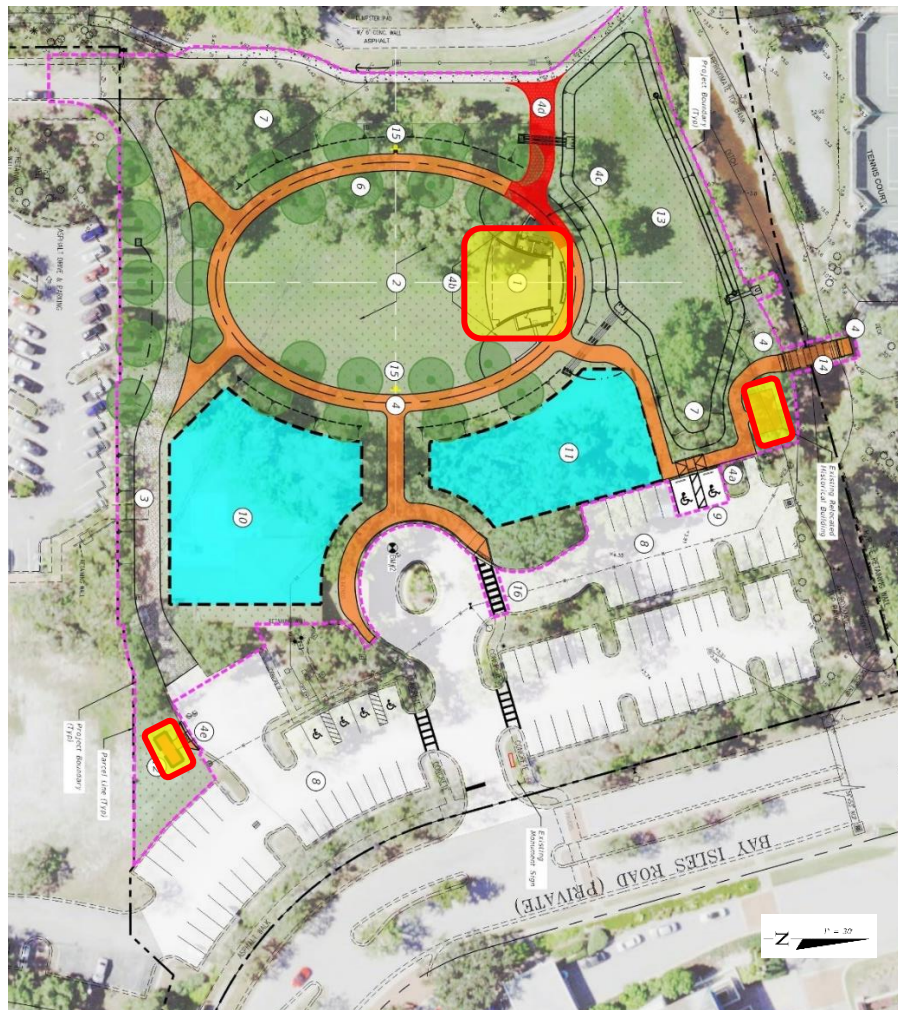
Proposed Development Summary

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.

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	

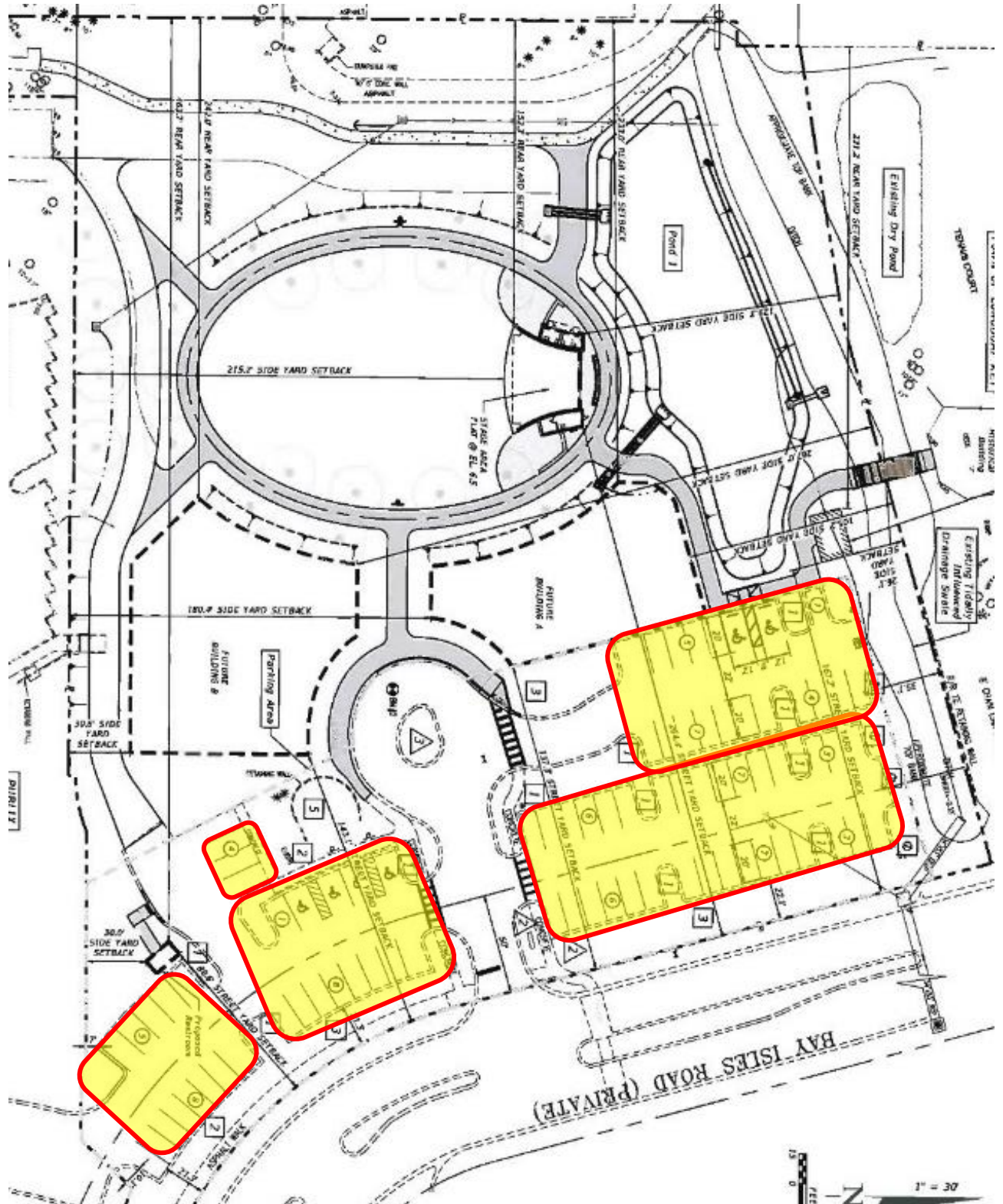
These spaces could be used for special events, provided the Town or event sponsor enters into a shared or borrowed agreement with the surrounding property owners. Table 16 also lists the operating hours of each parcel, which shows that most properties do not operate past 5pm. If a special event occurs 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:

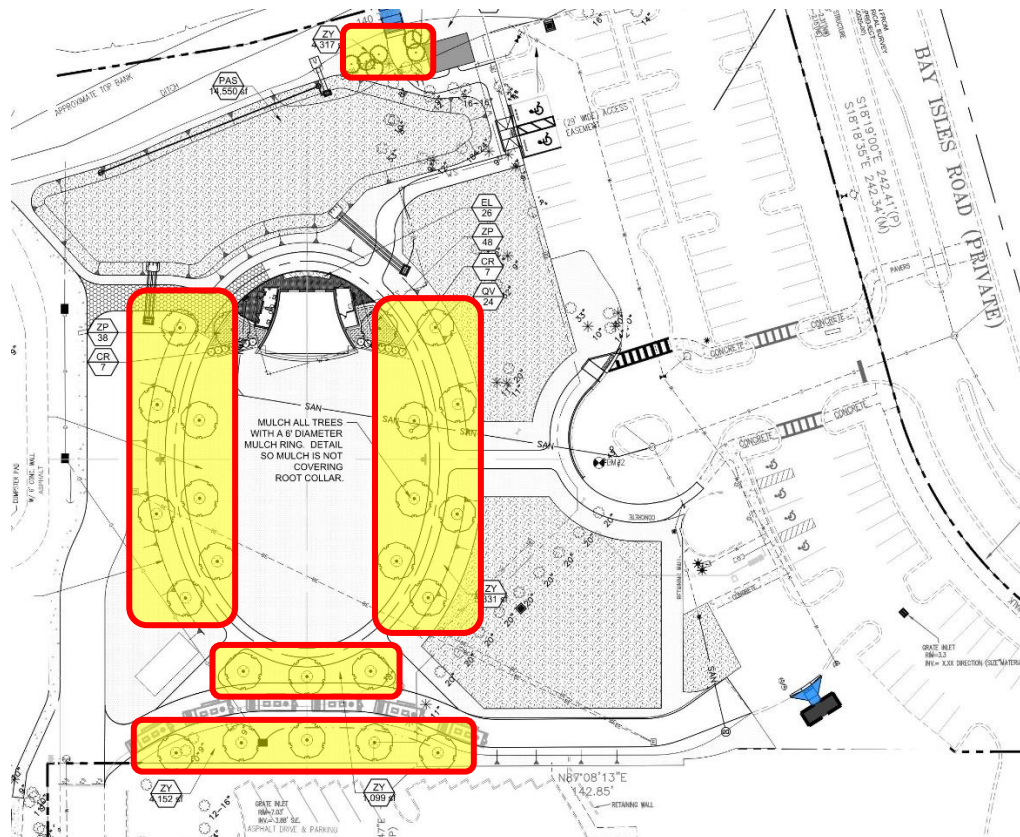
- Total Site Area: 209,490 square feet
- Total Non-Open Space (Building and Impervious Surface): 36% (75,457 square feet)
 - +2,654 (Buildings)
 - +72,803 (Parking Lot and Walkways)
- Total Open Space: 64% (134,033 square feet)

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).

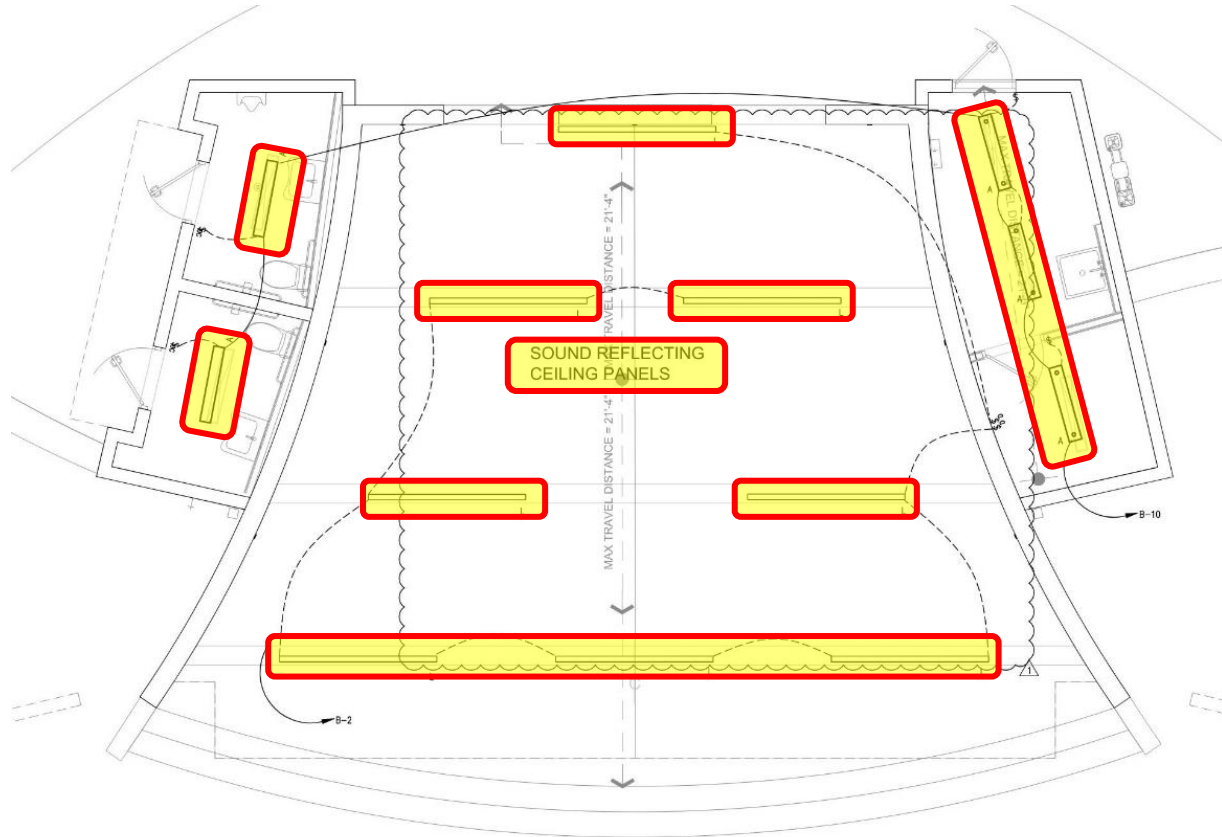
In addition to the 22 existing trees, the proposed landscape plan shows the planting of 31 trees: 24 four-inch caliber trees and seven palms. The site will also be landscaped with Pitch Apples and different ornamental grasses.

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 Recommendation

Based 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:

1. 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.
2. Approval of this Planned Unit Development/Outline Development Plan (PUD/ODP) Amendment is subject to approval of Site Development Plan Order 2023-01.
3. 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 Recommendation

Based 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:

1. 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.
3. 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.
 6. 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	STAFF EVALUATION
<p>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.</p>	<p>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.</p>
<p>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</p>	<p>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.</p>

COMPREHENSIVE PLAN, GOAL, OBJECTIVE AND POLICY	STAFF EVALUATION
<p>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.</p>	
<p>3. FLU Policy 1.4.1: The Town will 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-</p>	<p>The proposed plan is implementing this Future Land Use Policy by the development of the Town Center Green.</p>

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

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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 charrettes 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

Public Works Department
600 General Harris Street
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Incorporated November 14, 1955

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.

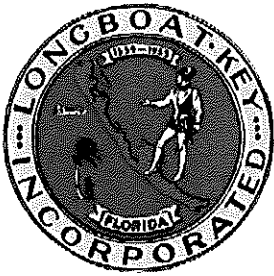
The overall intent of the Town is to develop the site into a Town Center park with an outdoor performance pavilion and a future community building(s).

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 (941) 316-1966
 501 Bay Isles Road
 Longboat Key, Florida 34228
 Fax Number: (941) 373-7938
 Web: <http://www.longboatkey.org>

APPLICATION FOR OUTLINE DEVELOPMENT PLAN

Date: _____ New _____ Revised _____

A. Property Information

Name of Development: Town Center Green

Site Location: 27deg. 22' 08.28"N 82deg. 37 27.49"W

Site Address: 600 Bay Isles Road

Zoning District: MUC-1 Sq. Ft. of Site*: 209,490 % Open Space: 82.41

*minimum 10 acres contiguous land for residential zoning districts, 2 acres for all other zoning districts (See Division 1) (Planned Unit Developments, Section 158.068 Minimum Area).

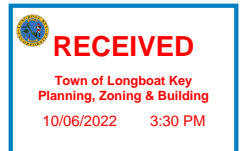
Existing Use(s) of Subject Property (i.e.: vacant, residence, commercial, etc.) _____
Open Space Recreational use.

Surrounding Land Use(s) (i.e.: vacant, residence, commercial, etc.): _____

- a. North: Parks - Community
- b. South: Commercial
- c. East: Road Right of Way
- d. West: Commercial

Description of Proposed Activity or Use & Square Footages (Attach separate sheet if necessary):

Open Space recreational with a Proposed Stage, Passive and Active Recreation, Future Public
Buildings for Education and Recreation



B. Names/Addresses

List all person(s) having ownership in subject property

- 1. Name of Property Owner: Town of Longboat Key
Address: 501 Bay Isles Rd
City, State & Zip: Longboat Key, FL, 34228
Telephone: 941-316-8711 Fax: 941-316-1656
Telephone 2: 941-316-1988 Mobile: _____

- 2. Name of Property Owner: _____
Address: _____
City, State & Zip: _____
Telephone: _____ Fax: _____
Telephone 2: _____ Mobile: _____

- 3. Name of Property Owner: _____
Address: _____
City, State & Zip: _____
Telephone: _____ Fax: _____
Telephone 2: _____ Mobile: _____

- 4. Name of Agent: Charles Mopps
(Agent is person who has been appointed by the property owner to represent in processing of the application)
Name of Company: Town of Longboat Key, Public Works
Address: 600 General Harris St
City, State & Zip: Longboat Key, FL 34228
Telephone: 941-316-1988 Fax: 941-316-1982
Telephone 2: _____ Mobile: _____



5. Name of Engineer: John Pari
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: _____

7. Name of Landscape Architect: Phillip J Smith
Name of Company: David W. Johnston Associates
Address: 630 S. Orange Ave STE 202
City, State & Zip: Sarasota FL 34236
Telephone: 941-366-3159 Fax: _____
Telephone 2: _____ Mobile: _____

NOTE: UNLESS OTHERWISE NOTED, ALL WRITTEN CORRESPONDENCE WILL BE MAILED TO THE AGENT. IF THERE IS NO AGENT, COMMENTS WILL BE SENT TO THE PROPERTY OWNER(S).



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: yes no N/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: yes no N/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: yes no N/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 six-inch 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: yes no N/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: yes no N/A

(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.

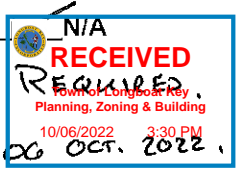
Information included: yes no N/A



- (g) A traffic impact analysis shall be provided to ensure that the adopted level of service standards is not exceeded before capacity-related improvements are implemented. In addition, a circulation facilities plan indicating approximate locations and types of proposed streets and pedestrian walks, emergency vehicle access points, including all curb cuts, driveways, off-street parking and loading areas and off-street vehicular surfaces available for maneuvering.
Information included: yes no N/A
- (h) Total project acreage and proposed densities for each dwelling unit type and total number of dwelling units by type.
Information included: yes no N/A
- (i) Floor area ratios for all land uses and approximate square footage of gross area for all nonresidential buildings by general type (e.g., offices, neighborhood commercial, etc.)
Information included: yes no N/A
- (j) Proposed development schedule indicating approximate starting and completion dates for the entire project and any phases thereof, together with appropriate identification and description of such phases.
Information included: yes no N/A
- (k) Such additional data, maps, plans or statements as may be required for the particular uses or activity involved.
Information included: yes no N/A
- (l) Such additional data, as the applicant may believe is pertinent to the development plan.
Information included: yes no N/A
- (m) Such additional material and information the town may reasonably require.
Information included: yes no N/A
- (n) A written statement by the landowner or any other entity having a cognizable interest in the land, describing fully the character and intended use of the planned unit development and setting forth the reasons why, in their opinion, a planned unit development would be in the public interest and would be consistent with the town's statement of purposes on planned unit development.
Information included: yes no N/A
- (o) A statement specifically indicating departures from the requirements of this code of ordinances which would otherwise be applicable to the project if a planned unit development were not granted by the town and a clear and specific statement of any hardship which might exist making the departure from the code necessary or a clear and specific statement of how the departures are necessary or desirable to accomplish one or more of the stated purposes of the planned unit development as set forth in Section 158.065.
Information included: yes no N/A

NO DEPARTURES

JB



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: Charles Mopps **Date:** 10/6/2022
(if applicant is not the property owner, a property owner affidavit will be required)

Charles Mopps
(Please print or type name)

FOR STAFF USE ONLY	
Application Fee: \$ 3000.00 deposit* (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.





Bill Furst
SARASOTA COUNTY
PROPERTY APPRAISER



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 ESM'T 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

Year	Land	Building	Extra Feature	Just	Assessed	Exemptions	Taxable	Cap.
2022	\$1,787,000	\$0	\$0	\$1,787,000	\$1,787,000	\$1,787,000	\$0	\$0
2021	\$1,787,000	\$0	\$0	\$1,787,000	\$1,669,659	\$1,669,659	\$0	\$117,341
2020	\$1,787,000	\$0	\$0	\$1,787,000	\$1,517,872	\$1,517,872	\$0	\$269,128
2019	\$1,787,000	\$0	\$0	\$1,787,000	\$1,379,884	\$1,379,884	\$0	\$407,116
2018	\$1,560,200	\$0	\$0	\$1,560,200	\$1,254,440	\$1,254,440	\$0	\$305,760
2017	\$1,140,400	\$0	\$0	\$1,140,400	\$1,140,400	\$1,140,400	\$0	\$0
2016	\$1,140,400	\$0	\$0	\$1,140,400	\$1,140,400	\$1,140,400	\$0	\$0



Year	Land	Building	Extra Feature	Just	Assessed	Exemptions	Taxable	Cap
2015	\$1,086,700	\$0	\$0	\$1,086,700	\$1,086,700	\$1,086,700	\$0	\$0
2014	\$1,086,700	\$0	\$0	\$1,086,700	\$652,080	\$436,894	\$215,186	\$434,620
2013	\$592,800	\$0	\$0	\$592,800	\$592,800	\$0	\$592,800	\$0



Current Exemptions

Grant Year	Value
2015	\$1,787,000.00

Sales & Transfers

Transfer Date	Recorded Consideration	Instrument Number	Qualification Code	Grantor/Seller	Instrument Type
5/2/2014	\$1,508,000	2014052214	02	BAY ISLES ENCLAVE ACQUISITION LLC	WD
4/17/2008	\$100	2008058590	11		CT

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 *
0126F	OUT	IN	AE	125126	10	OUT

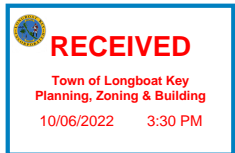
* If your property is in a SFHA or CFHA, use the map to determine if the building footprint is within the flood area.

** 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.



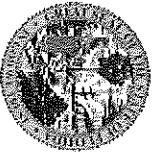




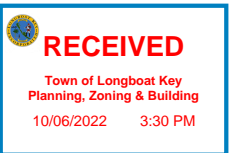
RECEIVED

Town of Longboat Key
Planning, Zoning & Building

10/06/2022 3:30 PM



Bill Furst
SARASOTA COUNTY
PROPERTY APPRAISER



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 #	Building Number	Description	Units	Unit Type	Year
1	0	Concrete paving	33000	SF	1985

Values

Year	Land	Building	Extra Feature	Just	Assessed	Exemptions	Taxable	Cap.
2022	\$1,191,000	\$0	\$57,500	\$1,248,500	\$1,248,500	\$1,248,500	\$0	\$0
2021	\$1,191,000	\$0	\$58,800	\$1,249,800	\$1,249,800	\$1,249,800	\$0	\$0
2020	\$1,191,000	\$0	\$60,100	\$1,251,100	\$1,251,100	\$1,251,100	\$0	\$0
2019	\$1,191,000	\$0	\$61,500	\$1,252,500	\$1,252,500	\$1,252,500	\$0	\$0
2018	\$1,221,900	\$0	\$48,900	\$1,270,800	\$1,270,800	\$1,270,800	\$0	\$0
2017	\$794,200	\$0	\$49,900	\$844,100	\$844,100	\$633,075	\$211,025	\$0
2016	\$794,200	\$0	\$50,900	\$845,100	\$845,100	\$0	\$845,100	\$0
2015	\$756,800	\$0	\$44,600	\$801,400	\$801,400	\$0	\$801,400	\$0



Year	Land	Building	Extra Feature	Just	Assessed	Exemptions	Taxable	Cap.
2014	\$756,800	\$0	\$45,400	\$802,200	\$802,200	\$0	\$802,200	\$0
2013	\$756,800	\$0	\$46,300	\$803,100	\$803,100	\$0	\$803,100	\$0

Current Exemptions

Grant Year	Value
2017	\$1,247,100.00

Sales & Transfers

Transfer Date	Recorded Consideration	Instrument Number	Qualification Code	Grantor/Seller	Instrument Type
3/31/2017	\$200,000	2017039619	18	ROOKS HOWARD	WD
5/14/2004	\$1,400,000	2004093454	01	TOWN PLAZA 2 INVESTMENT LTD,	WD

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 *
0126F	OUT	IN	AE	125126	10	OUT

* 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

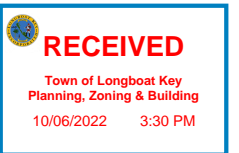
*** Federal law requires flood insurance for all properties in SFHAs with federally backed mortgages.

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





Bill Furst
SARASOTA COUNTY
PROPERTY APPRAISER



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

line #	Building Number	Description	Units	Unit Type	Year
1	0	Concrete block wall	89	SF	1986

Values

Year	Land	Building	Extra Feature	Just	Assessed	Exemptions	Taxable	Cap
2022	\$330,400	\$0	\$500	\$330,900	\$330,900	\$330,900	\$0	\$0
2021	\$330,400	\$0	\$400	\$330,800	\$330,800	\$330,800	\$0	\$0
2020	\$330,400	\$0	\$400	\$330,800	\$330,800	\$330,800	\$0	\$0
2019	\$330,400	\$571,200	\$4,800	\$906,400	\$895,510	\$895,510	\$0	\$10,890
2018	\$259,200	\$551,200	\$3,700	\$814,100	\$814,100	\$814,100	\$0	\$0
017	\$168,500	\$787,200	\$3,900	\$959,600	\$959,600	\$719,700	\$239,900	\$0
016	\$168,500	\$655,600	\$3,900	\$828,000	\$828,000	\$0	\$828,000	\$0
2015	\$160,500	\$656,900	\$3,500	\$820,900	\$820,900	\$0	\$820,900	\$0



Year	Land	Building	Extra Feature	Just	Assessed	Exemptions	Taxable	Cap
2014	\$160,500	\$229,500	\$3,400	\$393,400	\$207,556	\$0	\$207,556	\$185,844
2013	\$160,500	\$229,100	\$3,500	\$393,100	\$393,100	\$0	\$393,100	\$0

Current Exemptions

Grant Year	Value
2017	\$330,800.00

Sales & Transfers

Transfer Date	Recorded Consideration	Instrument Number	Qualification Code	Grantor/Seller	Instrument Type
3/31/2017	\$2,000,000	20170039618	18	CAVALIER INVESTMENTS 1 INC	WD
8/31/2004	\$1,210,000	2004171108	01	TERRACE AUTO SUPERCENTER INC,	WD
1/1/2003	\$913,800	2003117639	01	PLAZA PROPERTIES LTD,	WD
8/31/1999	\$850,000	1999119729	01	GRAHAM J W,	WD
2/1/1986	\$100	1836/2887	11		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 *
0126F	OUT	IN	AE	125126	10	OUT

* 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.







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Town of Longboat Key
Planning, Zoning & Building

10/06/2022 3:30 PM

**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.

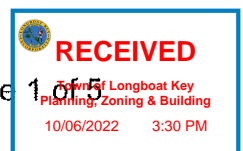
Public to be Heard*

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.

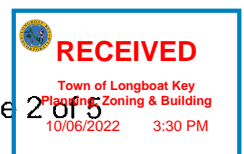
Town Manager Tom Harmer provided an overview of the annual adjustment of collection fees under the Solid Waste Franchise agreement.

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.

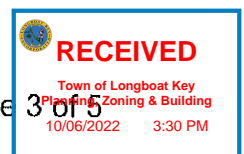
New Business

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.

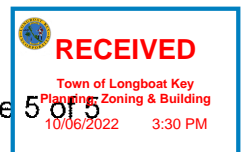


Trish Shinkle, Town Clerk



Kenneth Schneier, Mayor

Minutes Approved: 6-1-2020





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Town of Longboat Key
Planning, Zoning & Building

10/06/2022 3:30 PM

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 Town-owned 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.

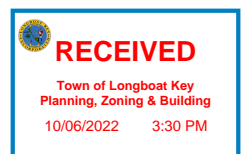
The future facilities would continue to be a long-term goal. Those projects are currently un-funded but the Town would continue to look for opportunities to partner with private and other public sector entities. One example would be the longer term potential for a new County library use on the property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

Staff Recommendation

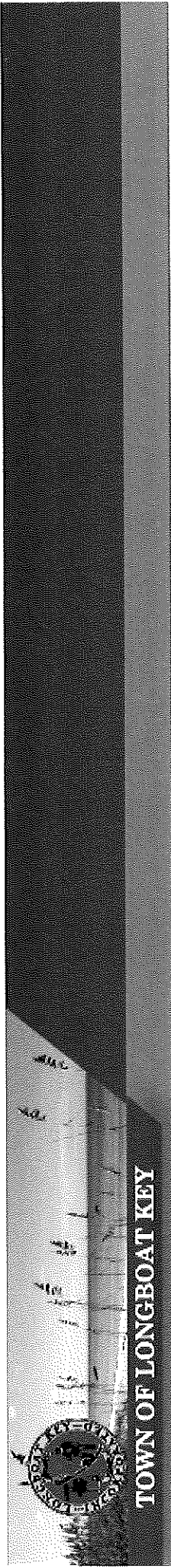
Approve Concept Plan and proceed with planning for Phase 2 of the Outdoor Venue.

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)

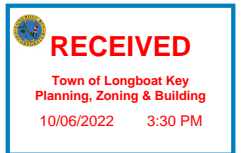






Town Outdoor Venue and Future Town Center

May 4, 2020
Regular Town Commission Meeting

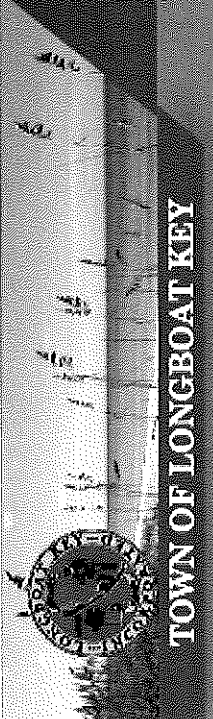


Agenda

TOWN OF LONGBOAT KEY

- Brief History
- Initial Outdoor Venue Construction Progress
- Hoyt Architects
 - Summary of Public Input, Concept Plans, and Integrated Examples
- Recommendations





Town Investment

Town purchased properties:

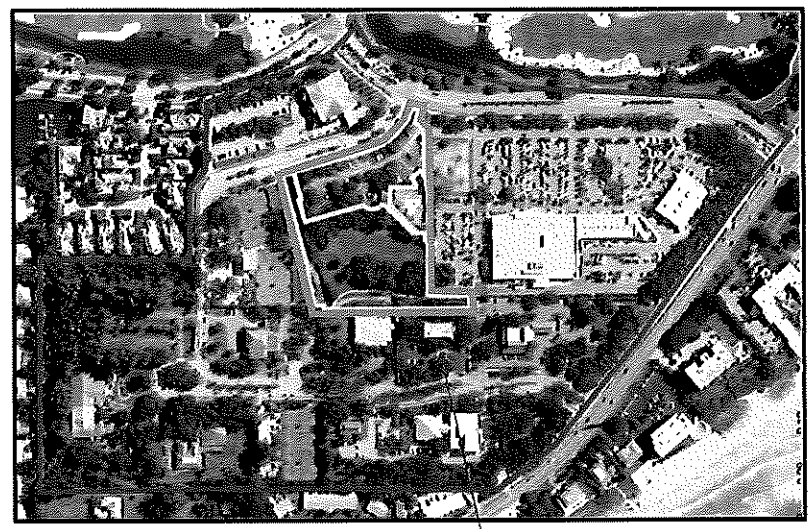
Bay Isles Enclave Acquisition, LLC
May 5, 2014 (2.80-acres)

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**
TOWN OF LONGBOAT KEY



Photo: Demolition by Forristal Enterprises, Inc.



Photos: Current conditions

Guiding Principles

TOWN OF LONGBOAT KEY

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



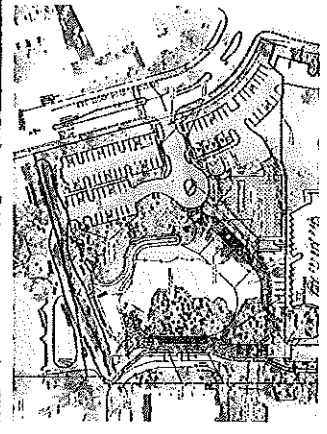


Initial Outdoor Venue - Phase 1

TOWN OF LONGBOAT KEY

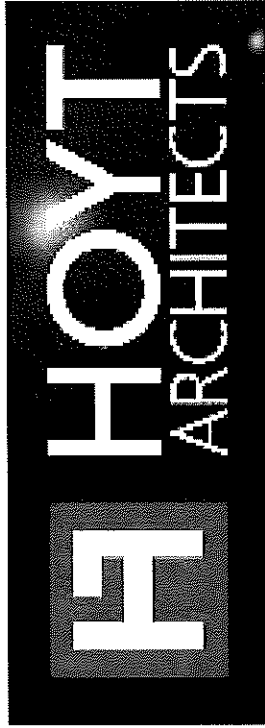
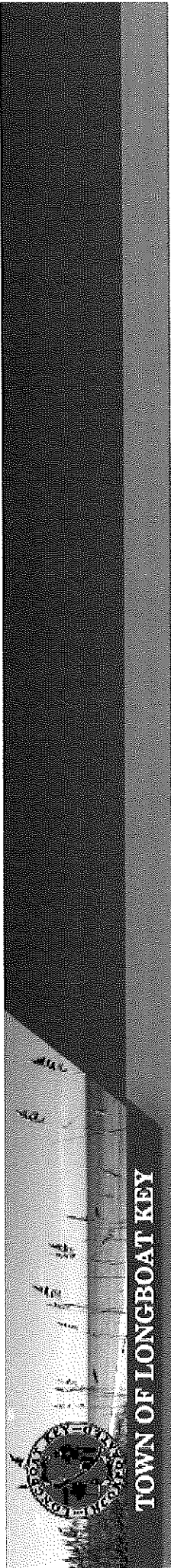
• Gator Grading and Paving Construction Progress:

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



Remove nuisance, invasive and other vegetative species
Raise site out of floodplain and wetland while maintaining sloping character
Add shell pathways and sidewalks, water service and a wastewater connection
Mill, base repair, and resurface entire parking lot

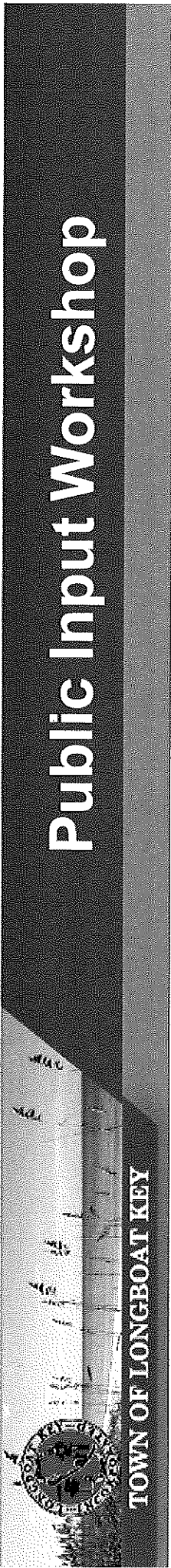
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 Town of Longboat Key
 Planning, Zoning & Building
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Civic spaces play a unique role in the community. The architect must understand and shape the larger civic realm: enabling, assembling, and enriching 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.





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:

1. *The questions of what, if any, further improvements should be made to the Town Center site.*
2. *Whether an Arts/Cultural/Education Center should be created at the Town Center.*
3. *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.



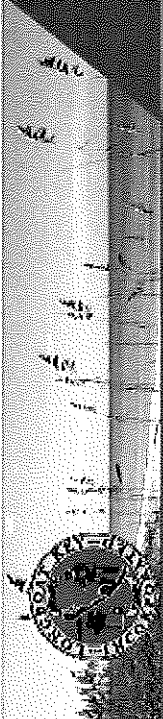


Survey Results: Outdoor Venue

TOWN OF LONGBOAT KEY

Survey Question to full time & seasonal residents	Positive Response	Professional Recommendations
Would you support further improvements at the Town Center?	87%	<p>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.</p>
Walkways and shade structures?	87%	<p>Of the Town Center concepts considered to date, all show a central greenspace for social activities and performances. Hoyt recommends that hard surface walkways 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.</p>
Performance structure/stage?	74%	<p>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.</p>
Public Restrooms?	87%	<p>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.</p>





TOWN OF LONGBOAT KEY

Survey Results: Outdoor Venue Cont.

Survey Question to full time & seasonal residents	Positive Response	Professional Recommendations
More trees and landscaping?	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?	60%	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?	80%	To increase transportation options and encourage multi-modal 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 & seasonal residents	Positive Response	Professional Recommendations
Would you support creating an Arts and Cultural Center at the Town Center?	67%	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?	54%	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?	47%	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?	54%	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?	54%	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?	54%	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

TOWN OF LONGBOAT KEY

Survey Question to full time & seasonal residents	Positive Response	Professional Recommendations
<p>Would you support moving the Town's Recreation Center from Bayfront Park to the Town Center?</p>	<p>60%</p>	<p>Hoyt recommends that further discussion regarding the details of a Recreation Center at the Town Center be postponed until improvements are made to the Town Center. However, a possible pad site for a potential Recreation Center should be part of the Town center planning process.</p>
<p>Pickleball?</p>		<p>As noted above, Hoyt recommends that further discussion regarding the details of a Recreation Center be postponed until improvements are made to the Town Center.</p>
<p>Shuffleboard?</p>		<p>As noted above, Hoyt recommends that further discussion regarding the details of a Recreation Center be postponed until improvements are made to the Town Center.</p>
<p>Low impact: fitness, yoga, tai chi?</p>	<p>54%</p>	<p>As noted above, Hoyt recommends that further discussion regarding the details of a Recreation Center be postponed until improvements are made to the Town Center.</p>
<p>Meeting rooms?</p>	<p>60%</p>	<p>As noted above, Hoyt recommends that further discussion regarding the details of a Recreation Center be postponed until improvements are made to the Town Center.</p>



Other Public Input

TOWN OF LONGBOAT KEY

Other key takeaways from the obtained public input:

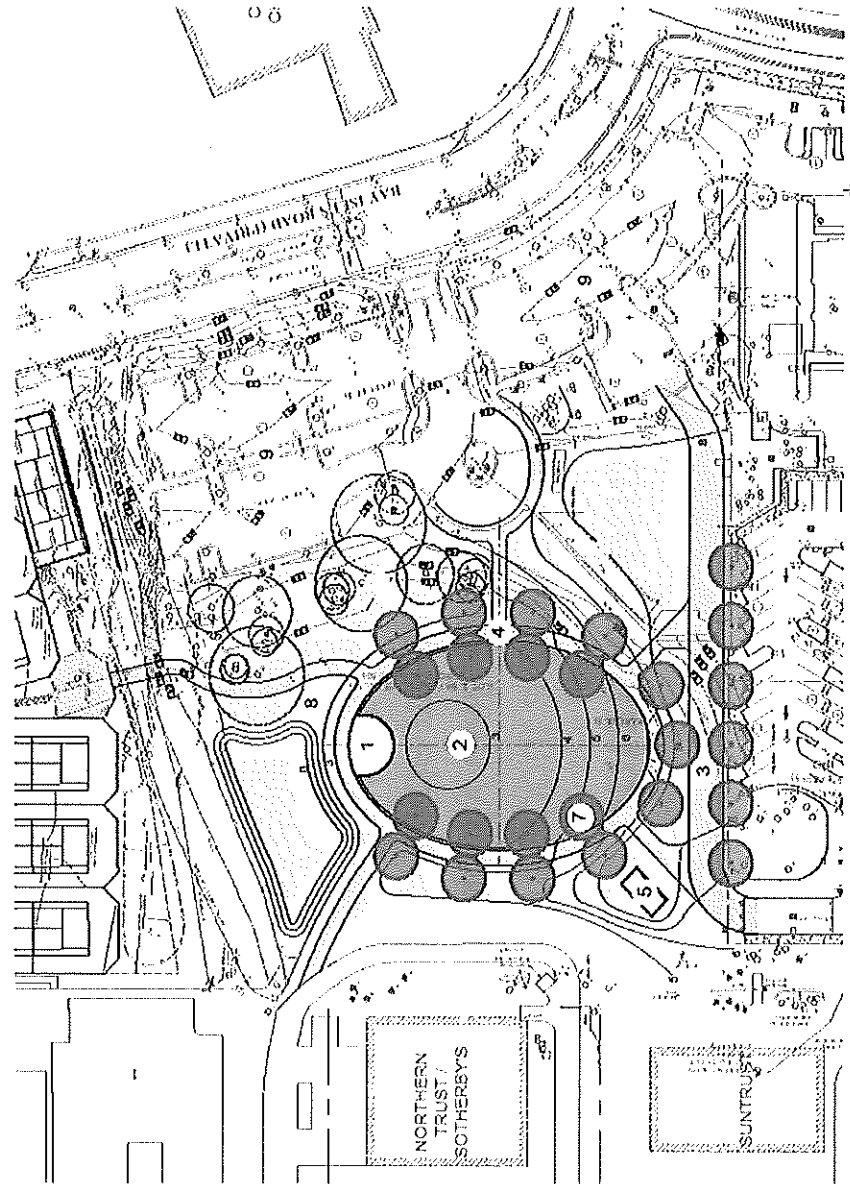
- Several attendees were very positive about a modern library – not just a place to store books – but a multi-purpose facility that would not include not only books and resource materials, but would also provide meeting rooms for a variety of community groups and activities and some kind of small food 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.





TOWN OF LONGBOAT KEY

Site Diagram A



- 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 Allée - 16 trees
 - 8. Sod - 42,000 s.f.
 - 9. ± 94 Ex. On-Site Parking Spaces

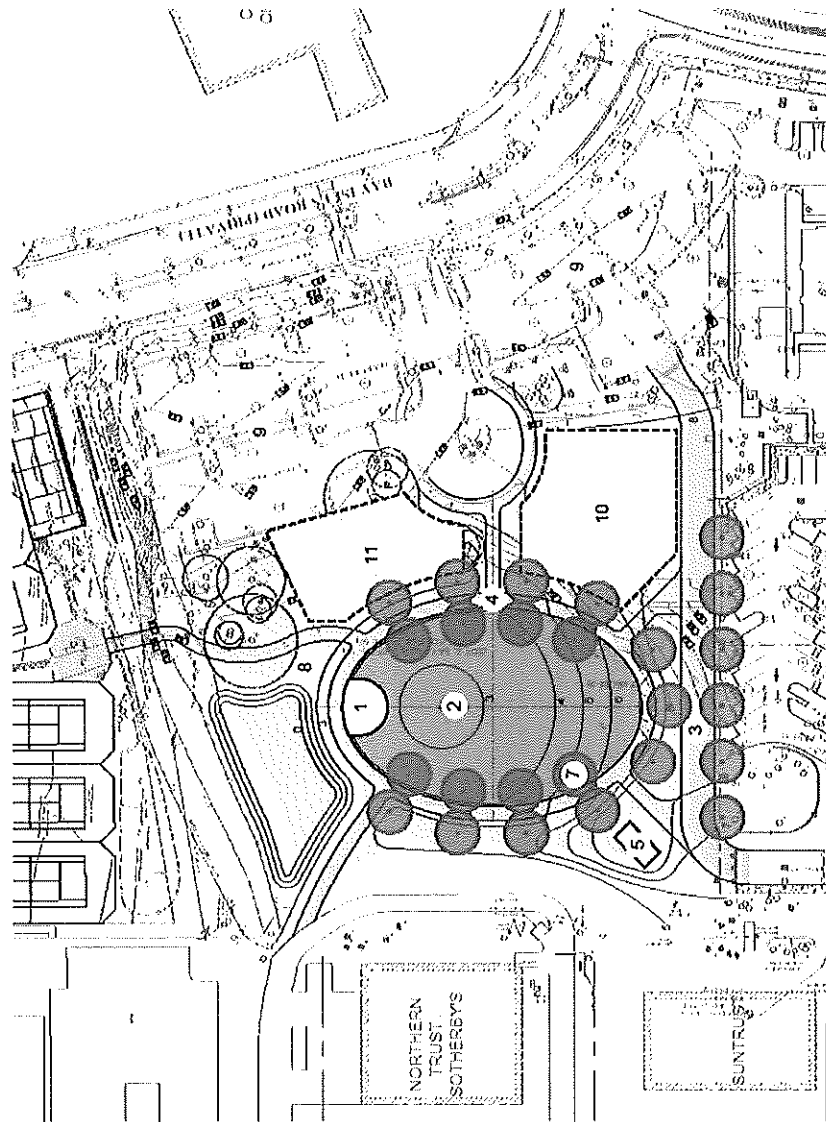


Longboat Key Town Center Park - Preliminary Concept Plan
 Town of Longboat Key, Florida
 Scale: 1"=60'-0"
 Date: 04.22.2020

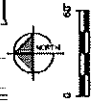


Site Diagram B

TOWN OF LONGBOAT KEY



- 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.

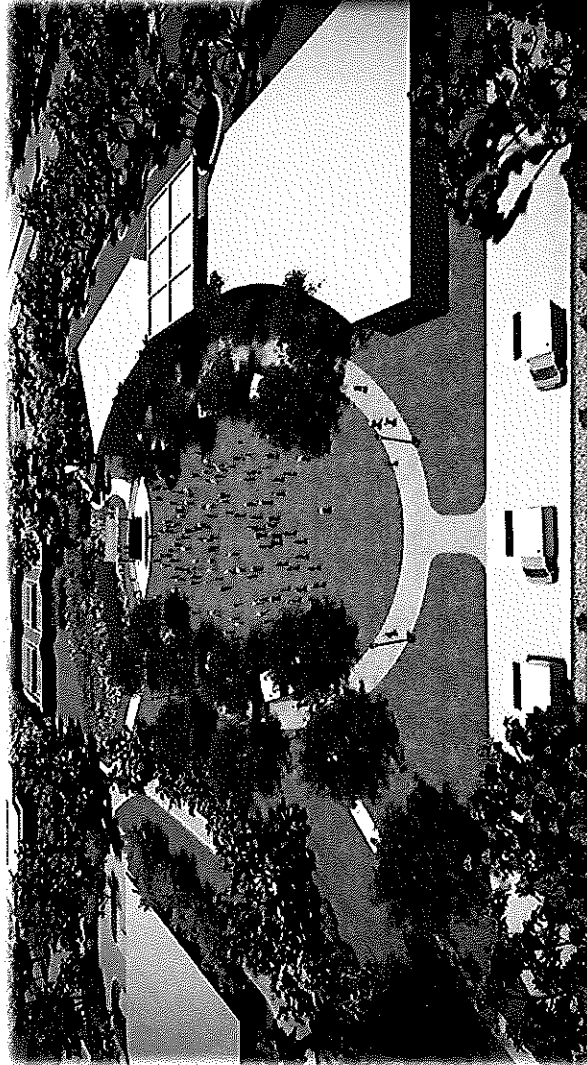
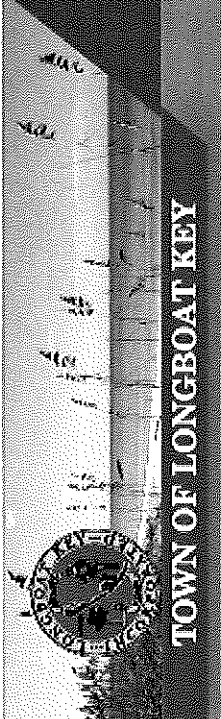


Longboat Key Town Center Park - Preliminary Concept Plan

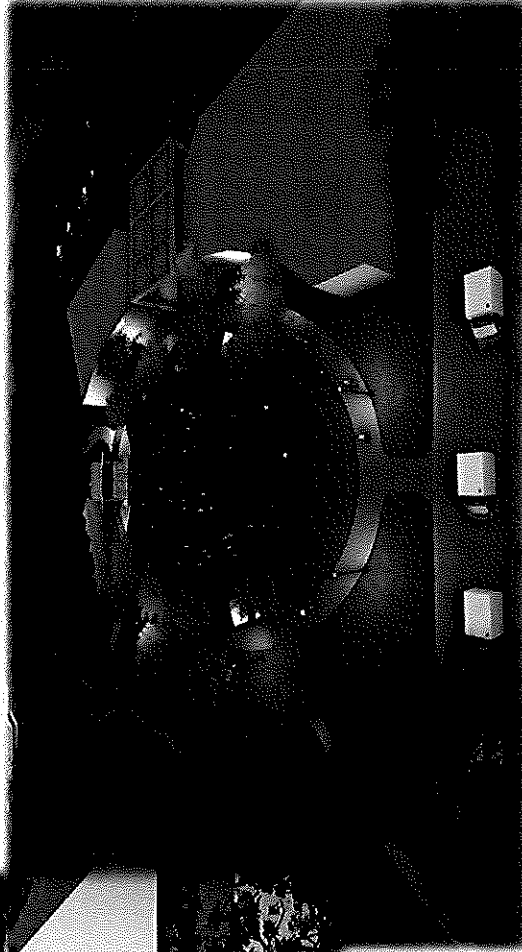
Town of Longboat Key, Florida
Scale: 1"=60'-0"
Date: 04.22.2020



Presentation Concepts



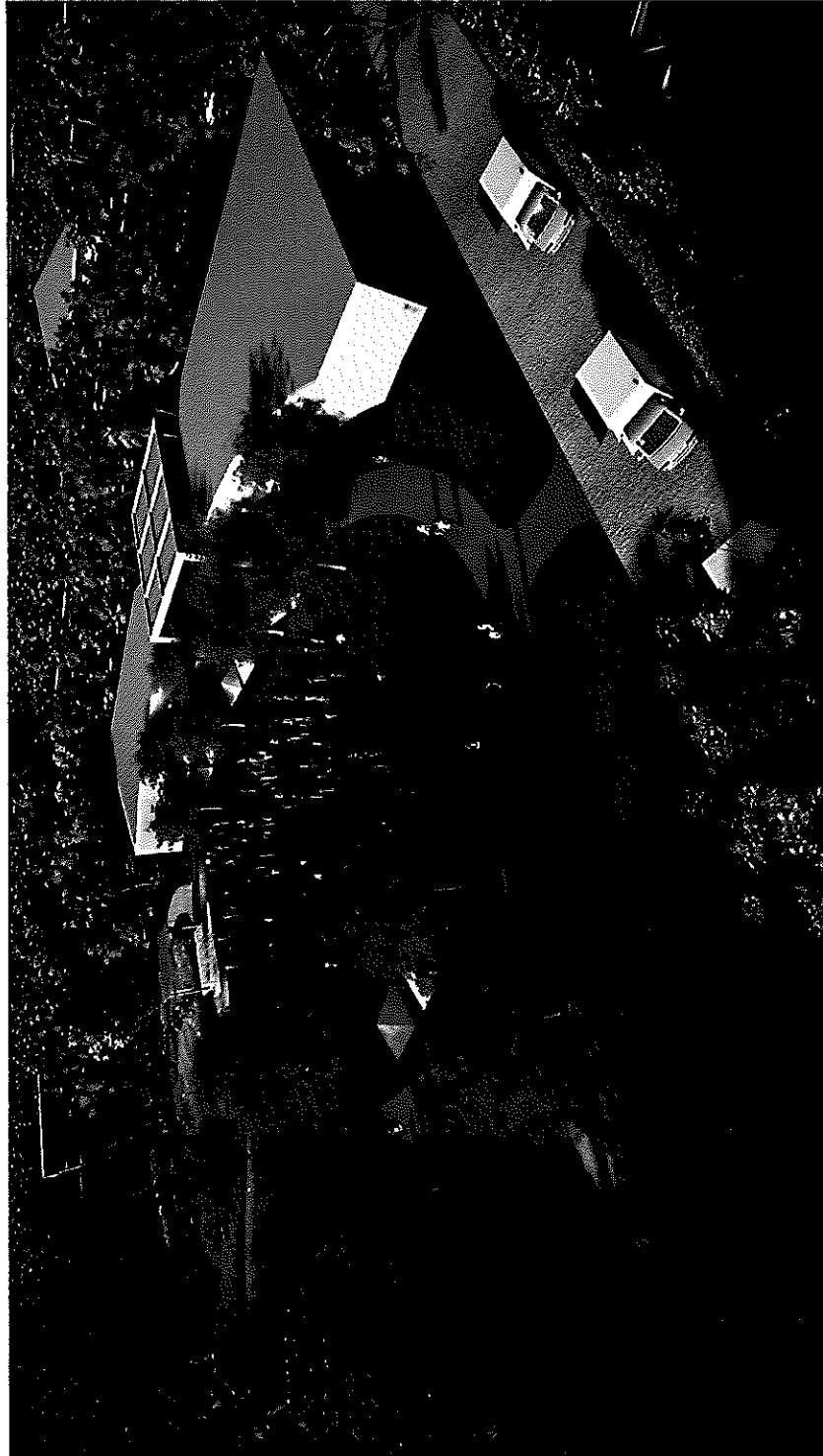
Possible build-out layout: Daytime



Possible build-out layout: Nighttime lit

Presentation Concepts Cont.

TOWN OF LONGBOAT KEY



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Examples



TOWN OF LONGBOAT KEY



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TOWN OF LONGBOAT KEY

Examples Cont.



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Examples Cont.

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Examples Cont.

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Summary Recommendations

TOWN OF LONGBOAT KEY

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 walkways.
- 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.



Summary Recommendations Cont.

TOWN OF LONGBOAT KEY

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 Rec Center should be part of 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.

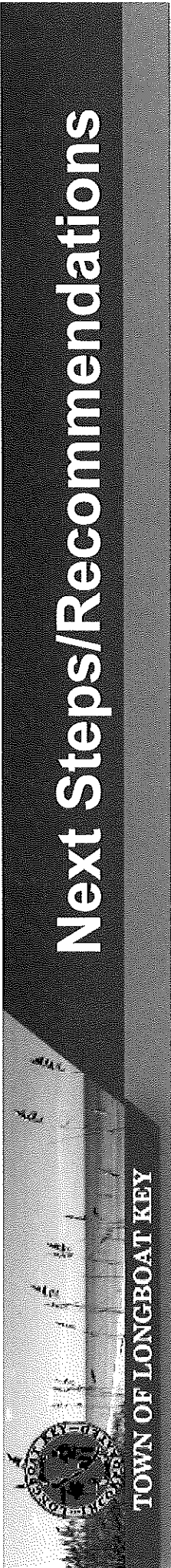
TOWN OF LONGBOAT KEY

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



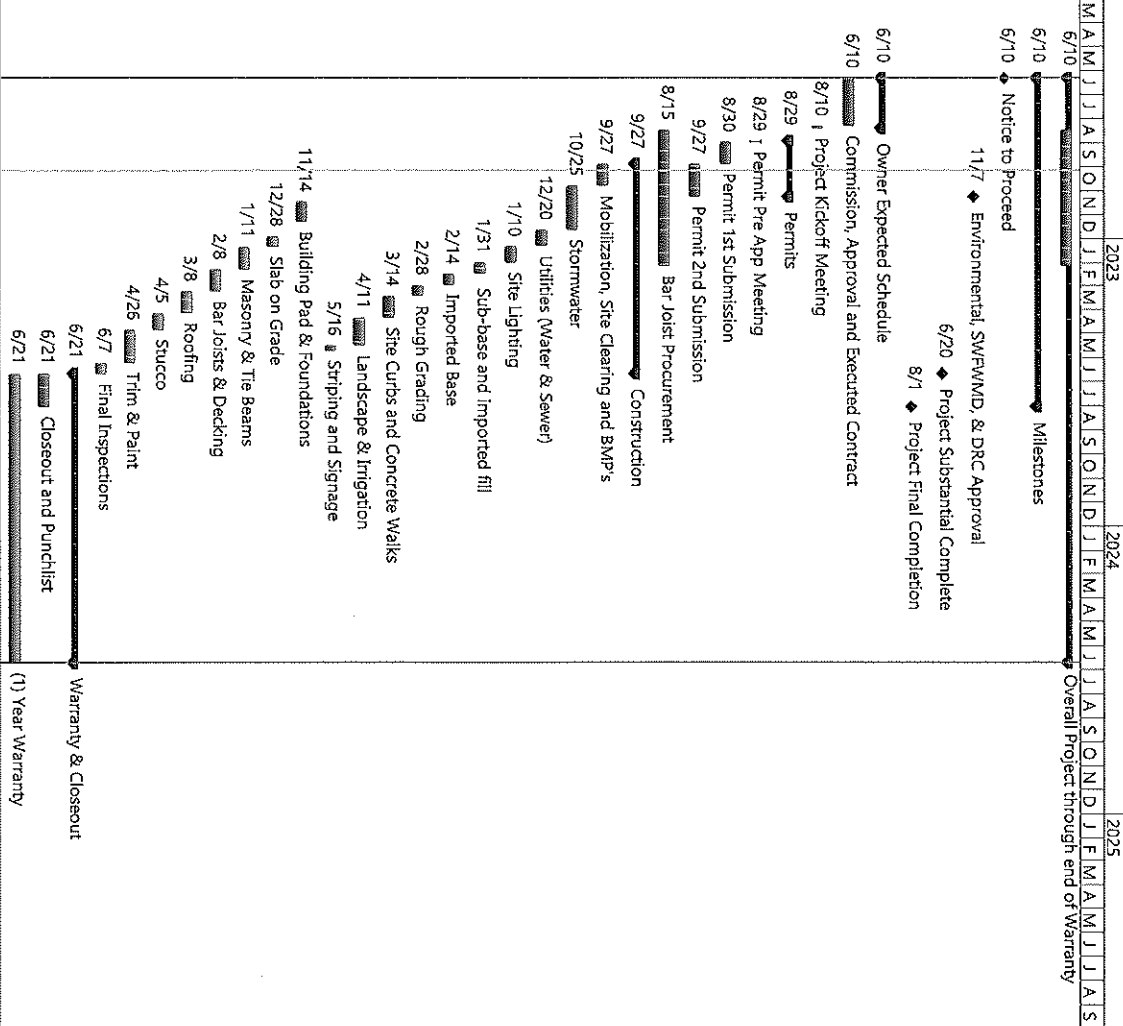


Next Steps/Recommendations

- 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.



ID	Task Name	Duration	% Comp	Start	Finish
1	Overall Project through end of Warranty	531 d	0%	Fri 6/21/22	Fri 6/21/24
2	Milestones	299 d	0%	Fri 6/10/22	Tue 6/1/23
3	Notice to Proceed	0 d	0%	Fri 6/10/22	Fri 6/10/22
4	Environmental, SWP/FMWD, & DRC Approval	0 d	0%	Mon 11/7/22	Mon 11/7/22
5	Project Substantial Complete	0 d	0%	Tue 6/20/23	Tue 6/20/23
6	Project Final Completion	0 d	0%	Tue 8/1/23	Tue 8/1/23
7	Owner Expected Schedule	46 d	0%	Fri 6/10/22	Fri 8/12/22
8	Commission, Approval and Executed Contract	43 d	0%	Fri 6/10/22	Tue 6/8/22
9	Project Kickoff Meeting	3 d	0%	Wed 8/10/22	Fri 8/12/22
10	Permits	51 d	0%	Mon 8/29/22	Mon 11/7/22
11	Permit Pre App Meeting	1 d	0%	Mon 8/29/22	Mon 8/29/22
12	Permit 1st Submission	20 d	0%	Tue 8/30/22	Mon 9/26/22
13	Permit 2nd Submission	30 d	0%	Tue 9/27/22	Mon 11/7/22
14	Bar Joist Procurement	125 d	0%	Mon 8/15/22	Fri 2/3/23
15	Construction	191 d	0%	Tue 9/27/22	Tue 6/20/23
16	Mobilization, Site Clearing and BMP's	20 d	0%	Tue 9/27/22	Mon 10/24/22
17	Stormwater	40 d	0%	Tue 10/25/22	Mon 12/19/22
18	Utilities (Water & Sewer)	15 d	0%	Tue 12/20/22	Mon 1/8/23
19	Site Lighting	15 d	0%	Tue 1/10/23	Mon 1/30/23
20	Sub-base and imported fill	10 d	0%	Tue 1/31/23	Mon 2/13/23
21	Imported Base	10 d	0%	Tue 2/14/23	Mon 2/27/23
22	Rough Grading	10 d	0%	Tue 2/28/23	Mon 3/12/23
23	Site Curbs and Concrete Walks	20 d	0%	Tue 3/14/23	Mon 4/10/23
24	Landscape and Irrigation	25 d	0%	Tue 4/11/23	Mon 5/15/23
25	Shipping and Signage	5 d	0%	Tue 5/16/23	Mon 5/22/23
26	Building Pad & Foundations	20 d	0%	Mon 11/4/22	Fri 12/9/22
27	Slab on Grade	10 d	0%	Wed 12/28/22	Tue 1/10/23
28	Masonry & Tie Beams	20 d	0%	Wed 1/11/23	Tue 2/7/23
29	Bar Joists & Decking	20 d	0%	Wed 2/8/23	Tue 3/17/23
30	Roofing	20 d	0%	Wed 3/8/23	Tue 4/4/23
31	Succo	15 d	0%	Wed 4/26/23	Tue 4/26/23
32	Trim & Paint	30 d	0%	Wed 4/26/23	Tue 5/6/23
33	Final Inspections	10 d	0%	Wed 6/7/23	Tue 6/20/23
34	Warranty & Closeout	263 d	0%	Wed 6/21/23	Fri 6/21/24
35	Closeout and Punchlist	30 d	0%	Wed 6/21/23	Tue 8/1/24
36	(1) Year Warranty	263 d	0%	Wed 6/21/23	Fri 6/21/24



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





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 hub 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 Section 158.034.

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 in 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 requirements.

(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 Revised Site Plan

Name of Development: Town Center Green

Site Address: 600 Bay Isles Road Longboat Key, 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 Road

City: Longboat Key State: Florida Zip: 34228

APPLICANT/AGENT

Name: Charles Mopps

Company/Firm: Town of Longboat Key, Public Works

Phone: 941-316-1988 Fax: 941-316-1984 Email: cmopps@longboatkey.org

Mailing Address: 600 General Harris Street

City: Longboat Key State: Florida Zip: 34228

ENGINEER/SURVEYOR

Name: 1; John Pari 2; Peter Lutz 3; Joel Freedman

Company/Firm: 1; DMK Associates 2; George F. Young, Inc 3; Joel Freedman Consulting



APPLICATION FOR SITE DEVELOPMENT PLAN REVIEW
Page 2

Phone: 941-412-1293 Fax: Email: jpari@dmkassoc.com

Mailing Address: 421 Commercial Ct, Ste C

City: Venice State: Florida Zip: 34292

ARCHITECT

Name: Chris Gallagher

Company/Firm: Hoyt Architects

Phone: 941-366-6066 Fax: Email: chris@hoytarchitects.com

Mailing Address: 1527 Second Street

City: Sarasota State: Florida Zip: 34236

EXISTING SITE INFORMATION:

Zoning District: PD Square Footage of Site: 209,490 Lot Coverage: 53,059

Total Units: 0 Proposed Density: 0

Percentage Non-Open Space: 25.33 Max Density Allowed: N/A

PROPOSED SITE INFORMATION:

Zoning District: MUC-1 Square Footage of Site: 209,490 Lot Coverage: 90,017

Total Units: 0 Proposed Density: 0

Percentage Non-Open Space: 44.88 Max Density Allowed: N/A

Proposed Development for Existing and New Buildings

Building A: Existing New Building Use 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 Use

Square Feet Height Number of Floors First Floor Elevation

Building C: Existing New Building Use

Square Feet Height Number of Floors First Floor Elevation

Building D: Existing New Building Use

Square Feet Height Number of Floors First Floor Elevation

Building E: Existing New Building Use

Square Feet Height Number of Floors First Floor Elevation

Parking Spaces Required: 94 Parking Spaces Indicated: 94

Please check all that apply:

Attached hereto are the necessary approvals of the federal, state, county and regional agencies.

Yes No



APPLICATION FOR SITE DEVELOPMENT PLAN REVIEW
Page 3

Proposed site plan complies with the Comprehensive Plan and Zoning Code. Yes No
(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: 01/17/2023

BONDS REQUIRED: Please contact the Planning, Zoning & Building 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: Charlie Mapps Date: 10/06/2022
(if applicant is not the property owner, a property owner affidavit will be required)

NOTARIZATION OF SIGNATURE

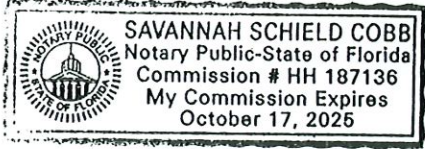
State of Florida
County of Sarasota

The foregoing instrument was acknowledged before me by means of physical presence or online notarization ,
this 6th day of October 20 22 By Charlie Mapps

Signature of Notary Public Savannah Cobb

Printed/Stamped Name of Notary Public Savannah Cobb

Personally known OR produced identification Type of ID _____



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
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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.



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April 22, 2021

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

Subject: **Notice of Agency Action - Approval
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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	

Water Quality/Quantity Comments: 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

Floodplain Comments: 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:

- 1 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 (<http://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.
- l. 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

S08/T36S/R17E

SEC(S)/TWP(S)/RGE(S)

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.
6. A request or petition for administrative hearing must comply with the requirements set forth in Chapter 28-106, F.A.C. A request or petition for a hearing must: (1) explain how the substantial interests of each person requesting the hearing will be affected by the District's intended action or proposed action, (2) state all material facts disputed by the person requesting the hearing or state that there are no material facts in dispute, and (3) otherwise comply with Rules 28-106.201 and 28-106.301, F.A.C. Chapter 28-106, F.A.C. can be viewed at www.flrules.org or at the District's website at www.WaterMatters.org/permits/rules.
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

Kimley»Horn



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.

Table 1: Longboat Key Town Center Park Proposed Land Uses

CONCEPT PLAN INFORMATION				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	1,000	86,500	86,500 SF (1.986 Acres)	--
2	Great Lawn	23,000			
3	Esplanade	9,200			
4	Ped Walkways	10,800			
5	Restroom Facility	500			
8	Sod	42,000			
10	Building Pad A	11,200	37,800	--	37,800 SF
11	Building Pad B	7,700			

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)

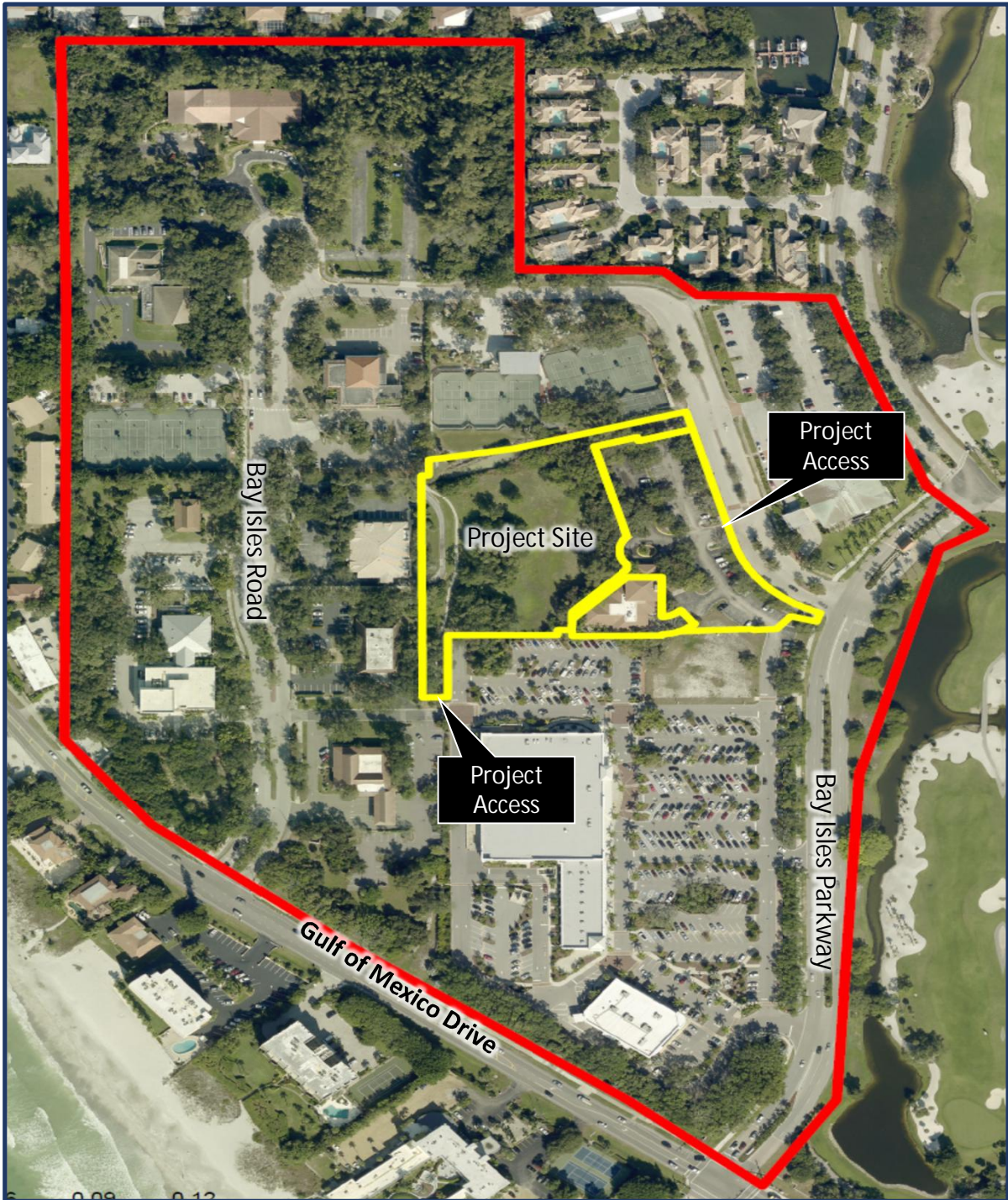
- Weekday p.m. peak-hour
- Saturday p.m. peak-hour

Buildout Special Event

- Small special event
 - Event that may happen on a weekday evening, such as a food truck event on the esplanade
- Medium special event
 - 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.



Legend

- Roadway
- Study Intersection
- XX Weekday Existing Peak Season PM Peak-Hour Traffic

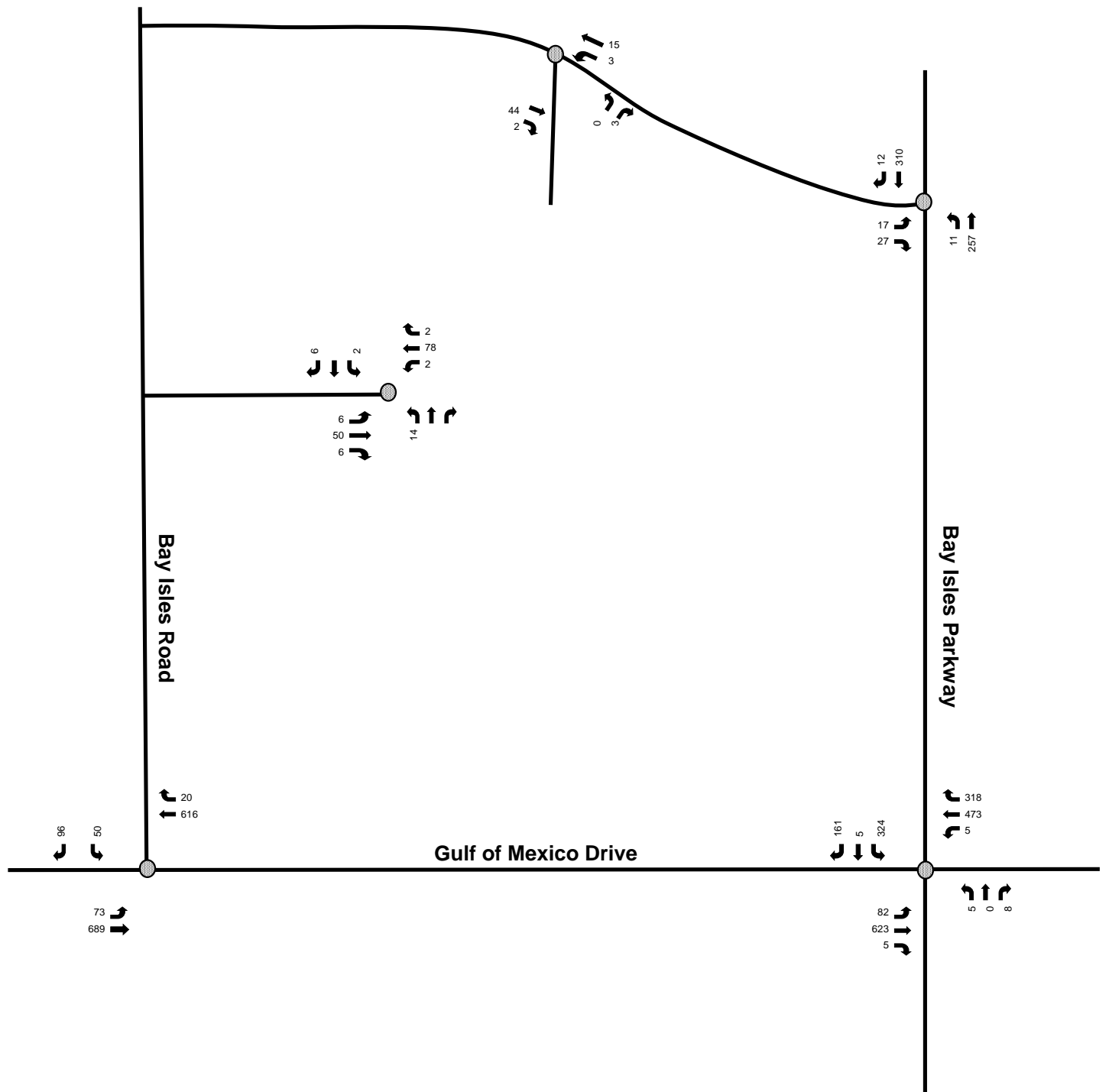





Figure 2
Weekday Existing Peak Season PM Peak-Hour Traffic
Longboat Key Town Center
Longboat Key, Florida



Legend

-  Roadway
-  Study Intersection
-  Weekend Existing Peak Season PM Peak-Hour Traffic

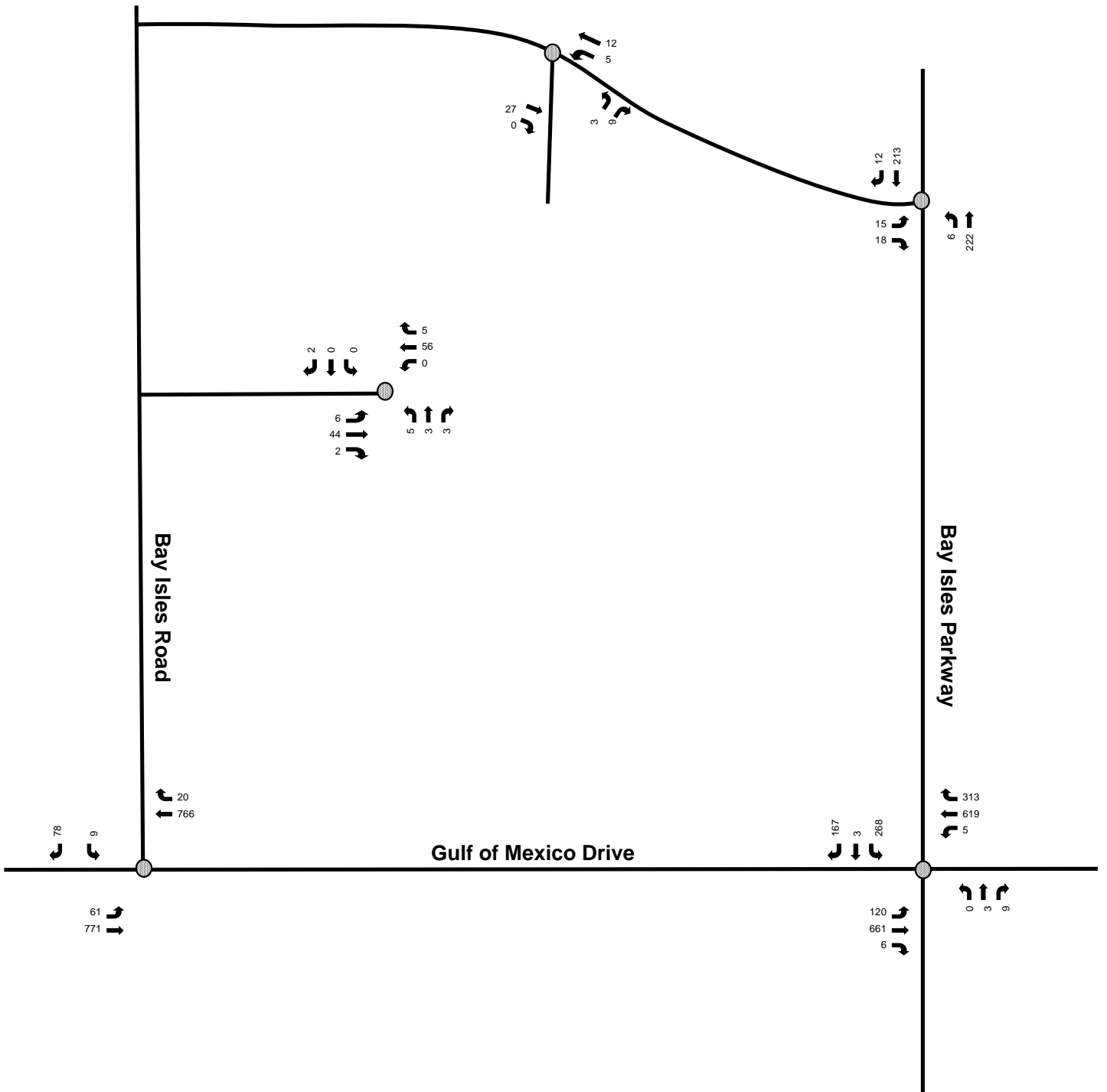


Figure 3
Weekend Existing Peak Season PM Peak-Hour Traffic
Longboat Key Town Center
Longboat Key, Florida

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

Roadway	From	To	Service Volumes			2021 Existing Volumes ²	Exceeds LOS Standard?
			Road Laneage	LOS Standard	LOS Service Volumes ¹		
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	C	2,628	757	No
Bay Isles Road	Bay Isles Parkway	Existing Driveway	2	C	1,197	239	No
Bay Isles Road	Existing Driveway	Bay Isles Road	2	C	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

Roadway	From	To	Service Volumes			2021 Existing Volumes ²	Exceeds LOS Standard?
			Road Laneage	LOS Standard	LOS Service Volumes ¹		
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	C	2,628	679	No
Bay Isles Road	Bay Isles Parkway	Existing Driveway	2	C	1,197	168	No
Bay Isles Road	Existing Driveway	Bay Isles Road	2	C	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
Bay Isles Parkway & Bay Isles Road	n/a	B	--	A	--
		0.06	--	0.01	--
Bay Isles Road & Park Driveway	n/a	--	A	A	--
		--	0.01	0.01	--
Gulf of Mexico Drive & Bay Isles Parkway	C	B	C	B	C
		0.67	0.71	0.03	0.74
Gulf of Mexico Drive & Bay Isles Road	n/a	A	--	--	C
		0.09	--	--	0.46
Bay Isles Road & Internal Intersection	A	A	A	A	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	B	--	A	--
		0.05	--	0.01	--
Bay Isles Road & Park Driveway	n/a	--	A	A	--
		--	0.01	0.01	--
Gulf of Mexico Drive & Bay Isles Parkway	C	B	C	C	C
		0.65	0.8	0.03	0.72
Gulf of Mexico Drive & Bay Isles Road	n/a	B	--	--	C
		0.09	--	--	0.28
Bay Isles Road & Internal Intersection	A	A	A	A	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.

Table 6: Weekday PM Peak-Hour Trip Generation

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

Table 7: Weekend (Saturday) PM Peak-Hour Trip Generation

Land Use	ITE Land Use Code	Scale	Units	Directional Distribution		Gross Trips		
				In	Out	In	Out	Total
Public Park	411	1.986	ACRE	55%	45%	15	12	27
Recreational Community Center	495	37.8	KSF	54%	46%	22	18	40
Total Weekend (Saturday) PM Peak-Hour Trips						37	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.



Legend

- Roadway
- Study Intersection
- XX Weekday Existing Peak Season PM Peak-Hour Traffic

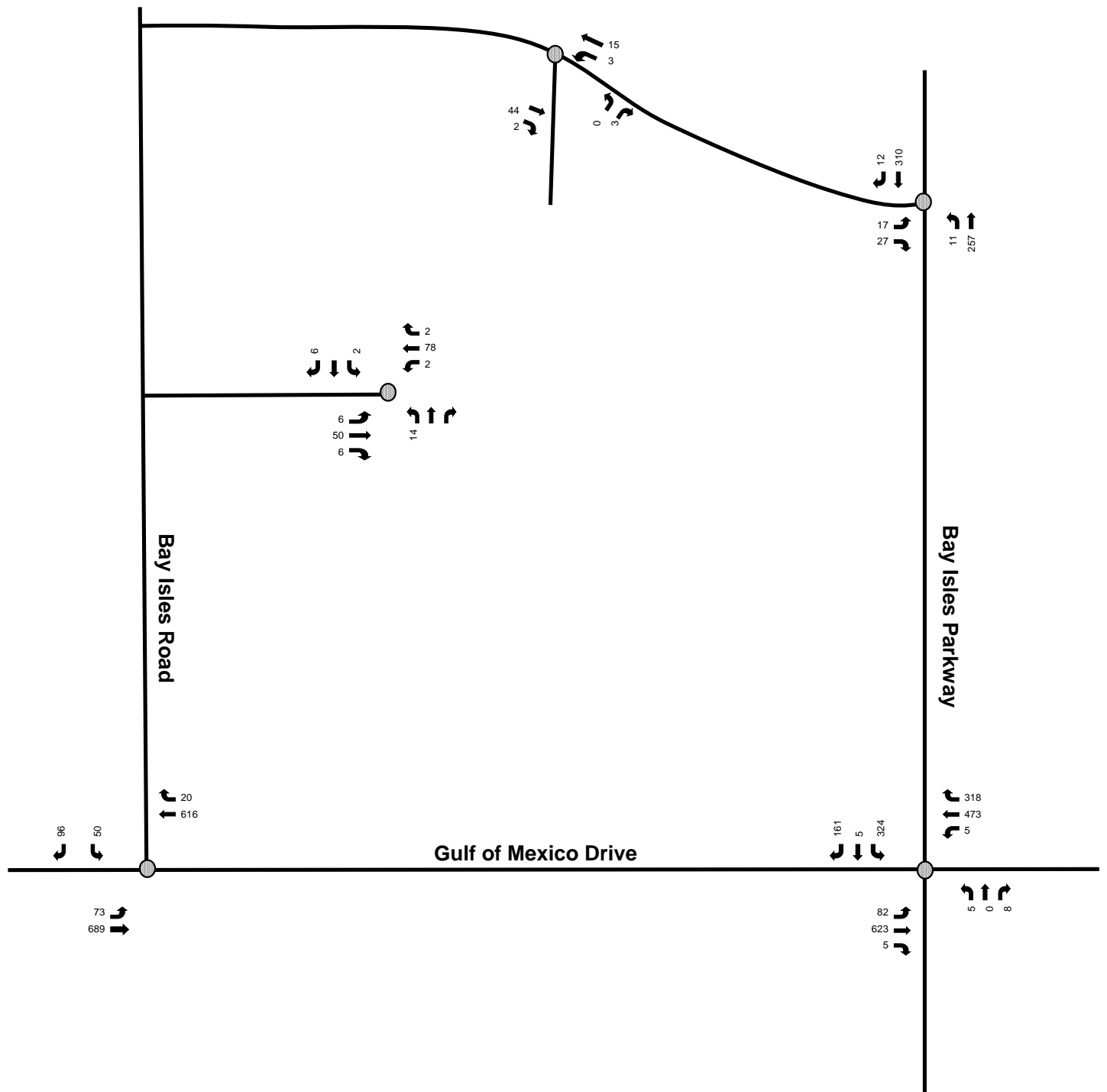


Figure 2
Weekday Existing Peak Season PM Peak-Hour Traffic
Longboat Key Town Center
Longboat Key, Florida



Legend

- Roadway
- Study Intersection
- XX Weekend Existing Peak Season PM Peak-Hour Traffic

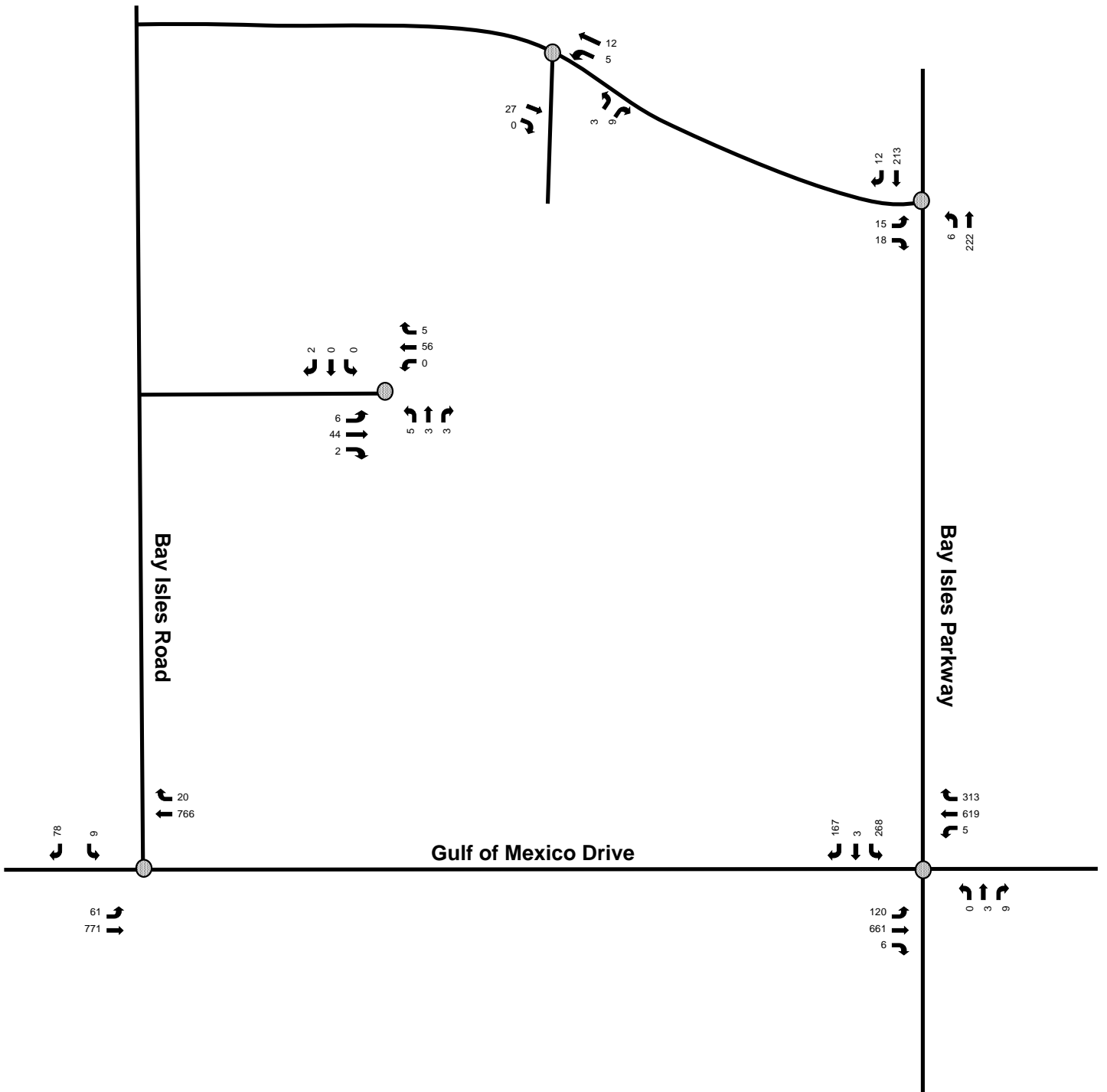
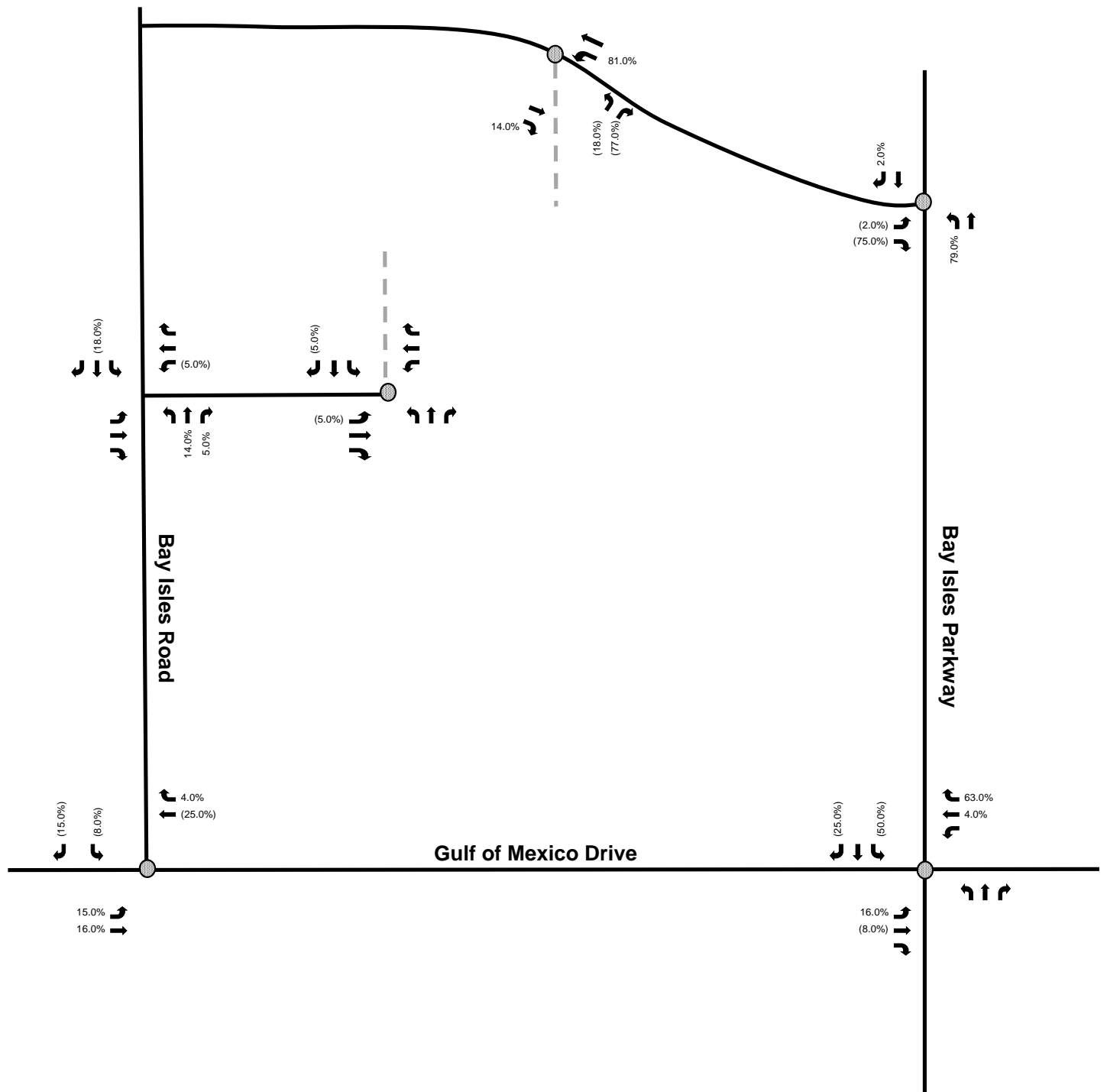


Figure 3
Weekend Existing Peak Season PM Peak-Hour Traffic
Longboat Key Town Center
Longboat Key, Florida



Legend

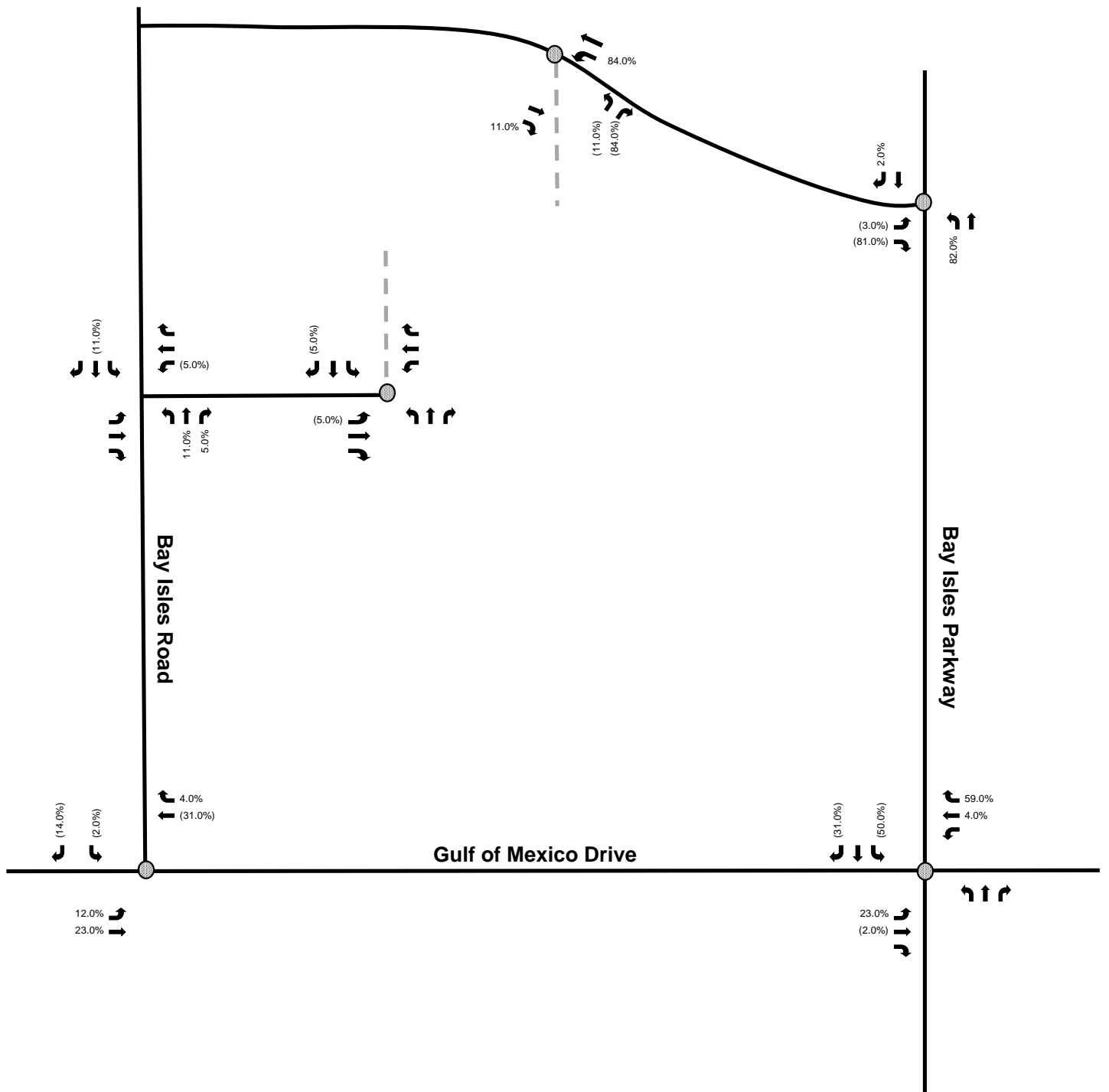
- Roadway
- Project Driveway
- Study Intersection
- XX% Weekday Entering Project Traffic Distribution
- (XX%) Weekday Exiting Project Traffic

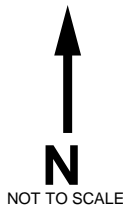




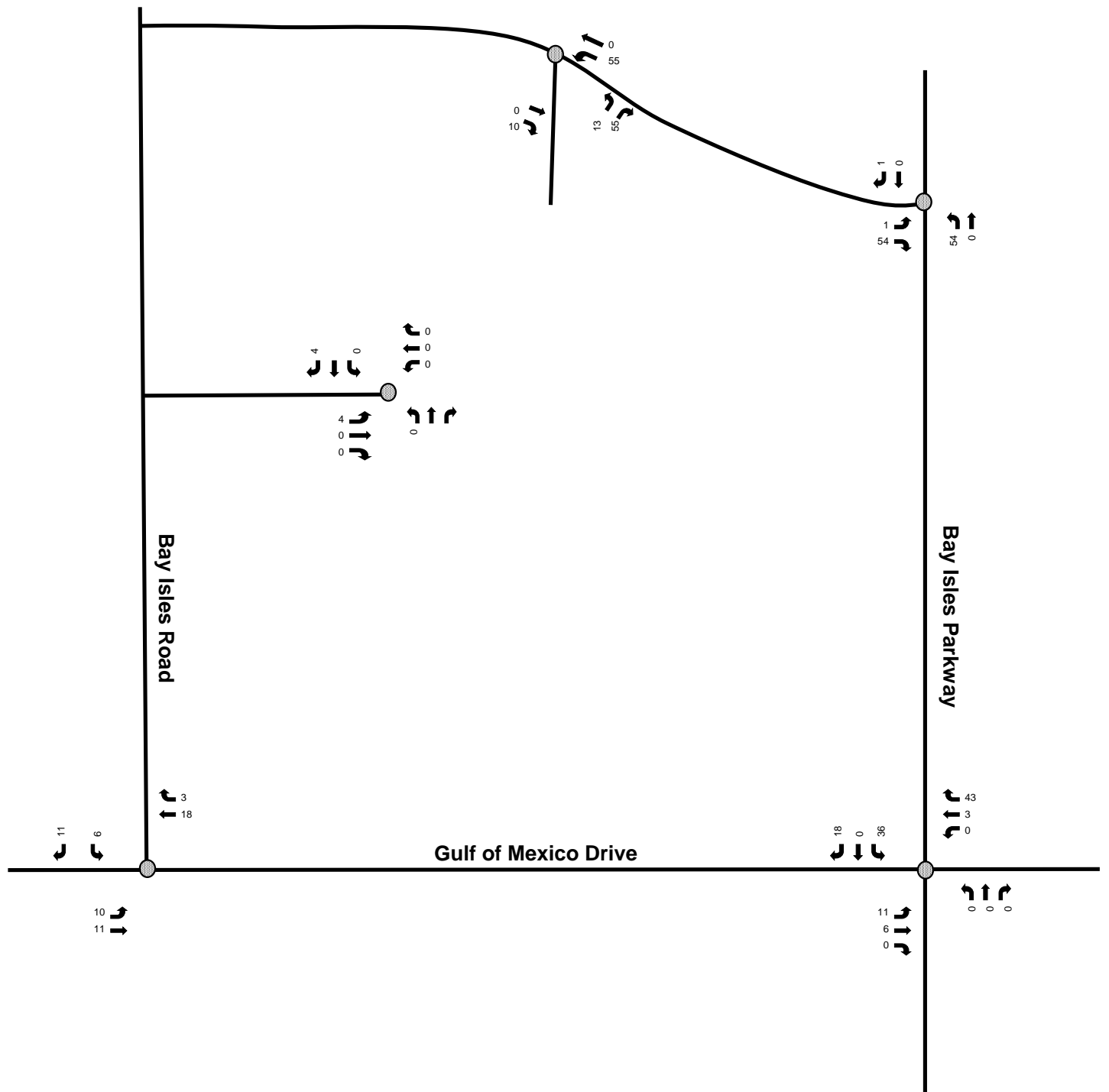
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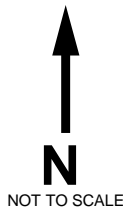
- Roadway
- Project Driveway
- Study Intersection
- XX% Weekend Entering Project Traffic Distribution
- (XX%) Weekend Exiting Project Traffic



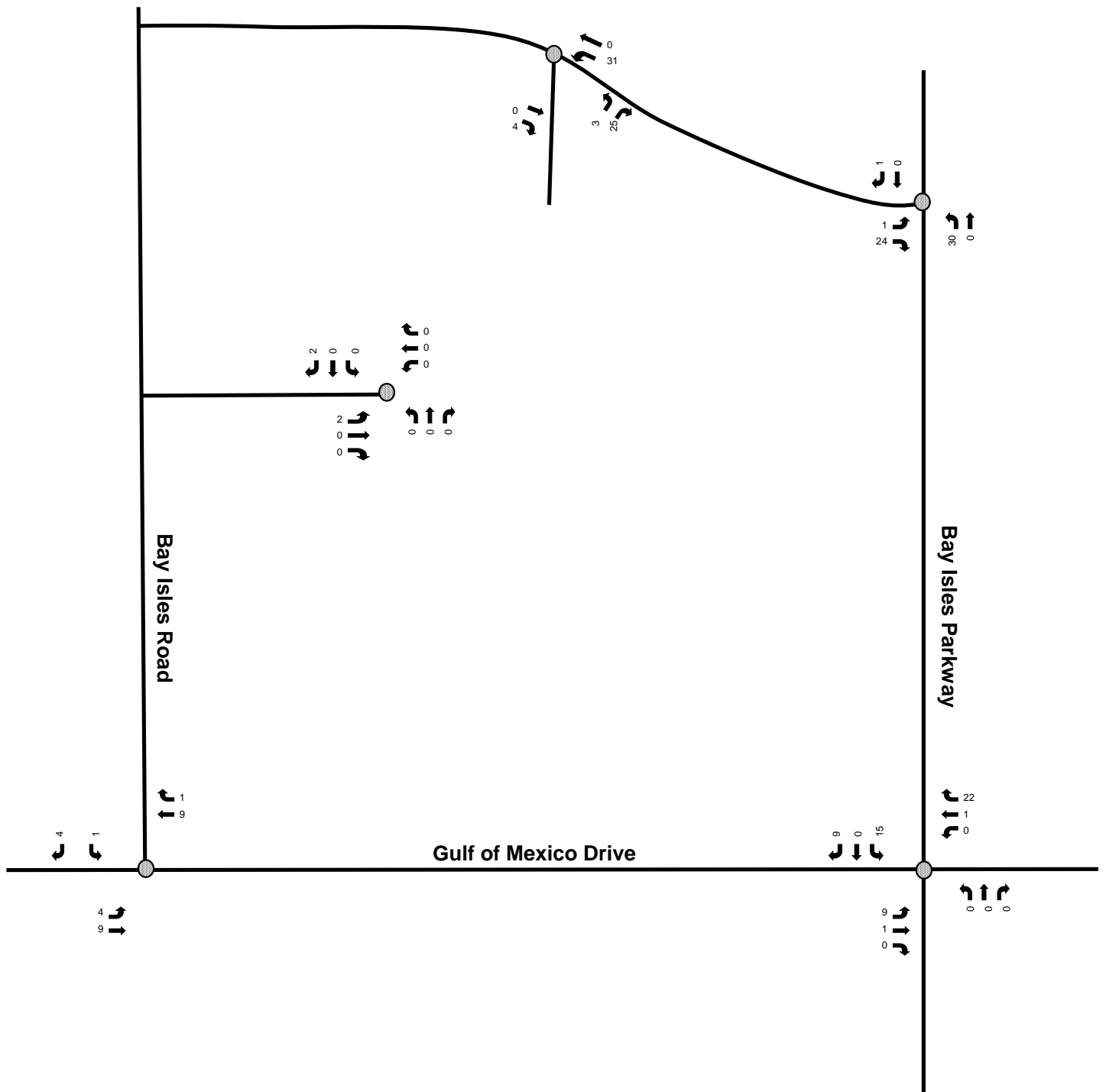


- Legend**
- Roadway
 - - - Project Driveway
 - Study Intersection
 - XX Weekday PM Peak-Hour Project Traffic





- Legend**
- Roadway
 - - - Project Driveway
 - Study Intersection
 - XX Weekend PM Peak-Hour Project Traffic





- Legend**
- Roadway
 - - - Project Driveway
 - Study Intersection
 - XX Weekday Future Total PM Peak-Hour Traffic

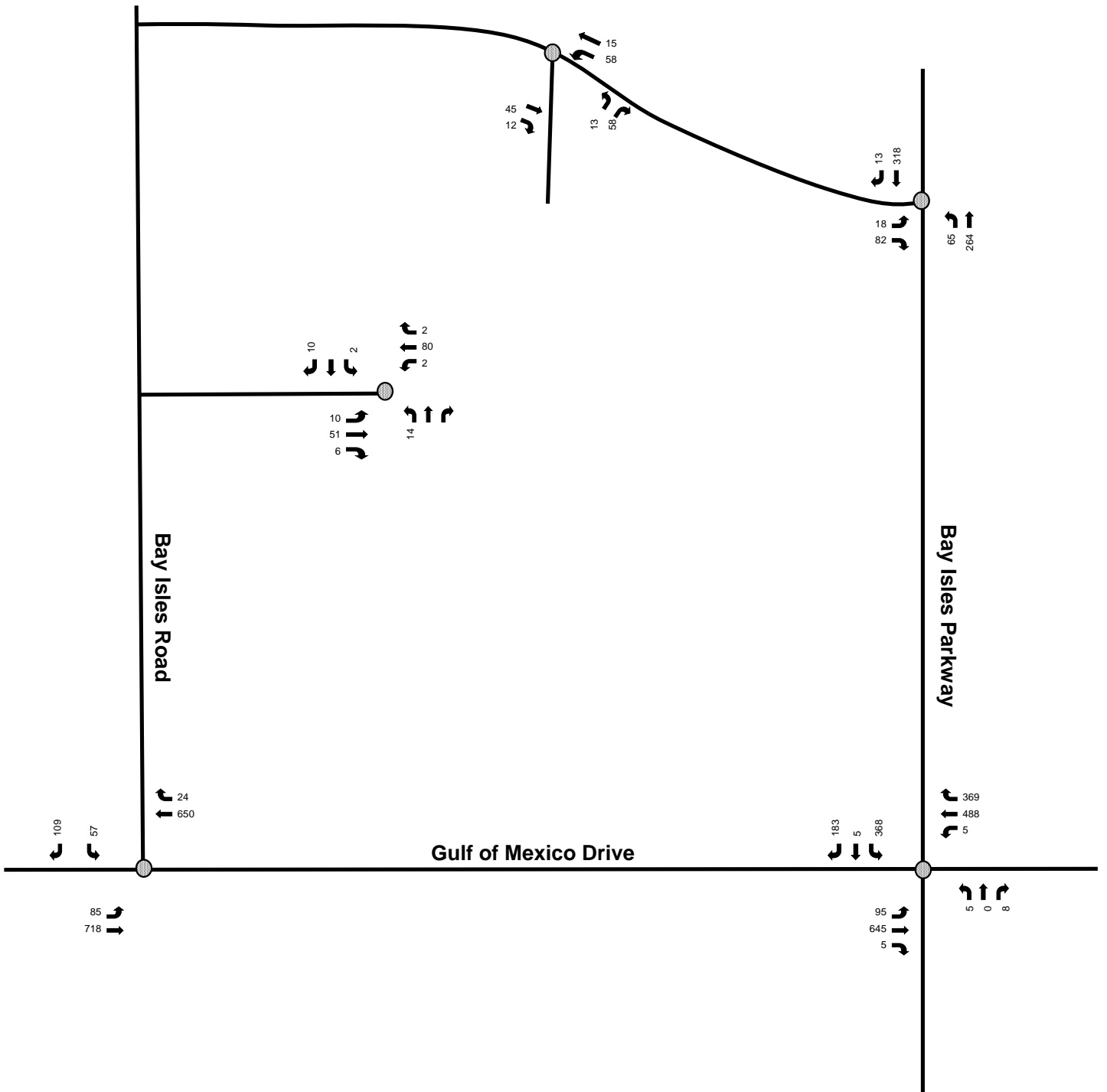
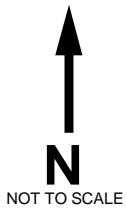


Figure 8
 Weekday PM Peak-Hour Future Total Traffic
 Longboat Key Town Center
 Longboat Key, Florida



- Legend**
- Roadway
 - Project Driveway
 - Study Intersection
 - XX Weekend Future Total PM Peak-Hour Traffic

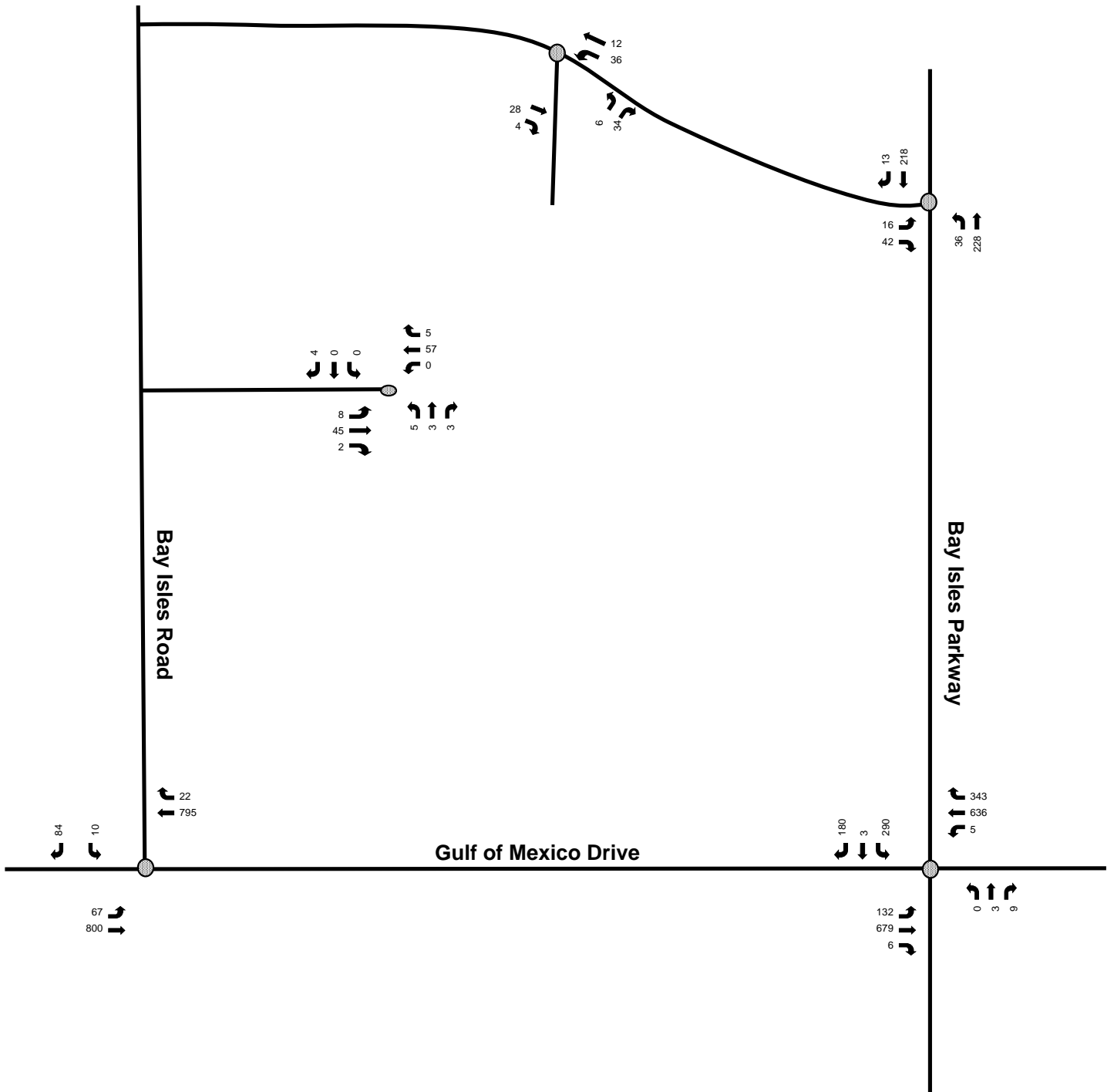


Figure 9
Weekend PM Peak-Hour Future Total Traffic
Longboat Key Town Center
Longboat Key, Florida

Table 8: Future Weekday PM Peak-Hour Roadway Analysis

Roadway	From	To	Service Volumes			2021 Existing Volumes ²	2022 Background Volumes ³	Project Volumes	2022 Total Volumes	Exceeds LOS Standard?
			Road Laneage	LOS Standard	LOS Service Volumes ¹					
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	C	2,628	757	777	108	885	No
Bay Isles Road	Bay Isles Parkway	Existing Driveway	2	C	1,197	239	245	110	355	No
Bay Isles Road	Existing Driveway	Bay Isles Road	2	C	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

Roadway	From	To	Service Volumes			2021 Existing Volumes ²	2022 Background Volumes ³	Project Volumes	2022 Total Volumes	Exceeds LOS Standard?
			Road Laneage	LOS Standard	LOS Service Volumes ¹					
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	C	2,628	679	697	55	752	No
Bay Isles Road	Bay Isles Parkway	Existing Driveway	2	C	1,197	168	172	56	228	No
Bay Isles Road	Existing Driveway	Bay Isles Road	2	C	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
Bay Isles Parkway & Bay Isles Road	n/a	B	--	A	--
		0.06	--	0.16	--
Bay Isles Road & Park Driveway	n/a	--	A	A	--
		--	0.04	0.08	--
Gulf of Mexico Drive & Bay Isles Parkway	C	B	C	C	D
		0.69	0.72	0.04	0.89
Gulf of Mexico Drive & Bay Isles Road	n/a	A	--	--	D
		0.11	--	--	0.56
Bay Isles Road & Internal Intersection	A	A	A	A	A
		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	B	--	A	--
		0.08	--	0.03	--
Bay Isles Road & Park Driveway	n/a	--	A	A	--
		--	0.03	0.04	--
Gulf of Mexico Drive & Bay Isles Parkway	C	B	C	C	D
		0.66	0.81	0.03	0.79
Gulf of Mexico Drive & Bay Isles Road	n/a	B	--	--	C
		0.1	--	--	0.32
Bay Isles Road & Internal Intersection	A	A	A	A	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.

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

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

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 in 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.

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

Shared Parking Demand Summary														
Peak Month: APRIL -- Peak Period: 12 PM, WEEKDAY														
Land Use	Project Data		Weekday			Weekend			Weekday			Weekend		
			Base Ratio	Project Ratio	Unit For Ratio	Base Ratio	Project Ratio	Unit For Ratio	Peak Hr Adj	Peak Mo Adj	Estimated Parking Demand	Peak Hr Adj	Peak Mo Adj	Estimated Parking Demand
	Quantity	Unit												
Public Park/Destination Open Space Employee	2	acre	4.00	4.00	acre	5.00	5.00		85%	100%	7	30%	100%	3
			0.40	0.40		0.50	0.50		100%	100%	1	75%	100%	1
Public Library Employee	37,800	sf GLA	2.00	2.00	ksf GLA	1.90	1.90	ksf GLA	98%	95%	71	100%	95%	68
			0.25	0.25		0.20	0.20		100%	100%	10	100%	100%	8
										Customer/Visitor	78	Customer/Visitor	71	
										Employee/Resident	11	Employee/Resident	9	
										Reserved	-	Reserved	-	
										Total	89	Total	80	

*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		Month	Weekend	
	Overall Pk			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

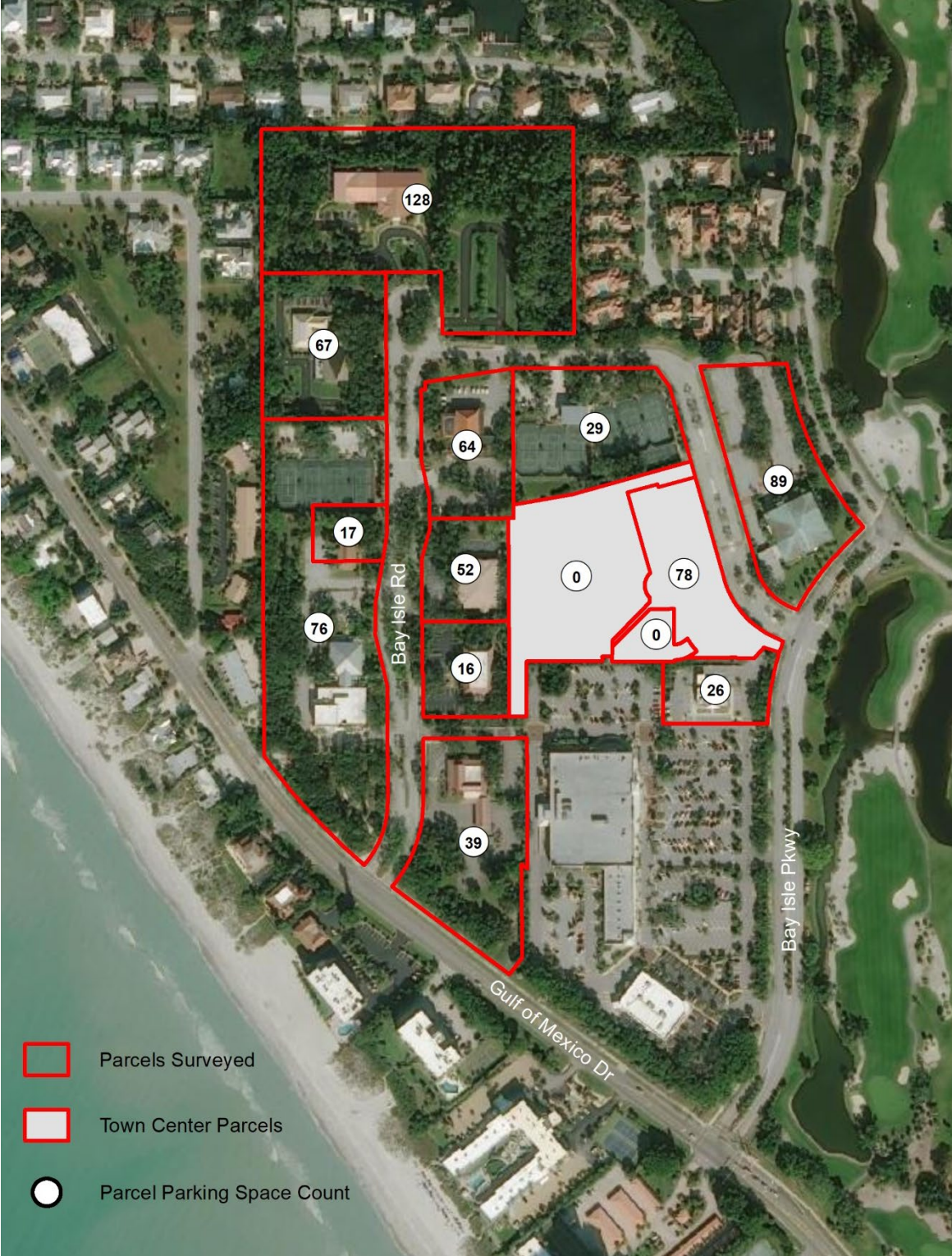
For the special event parking assessment, properties along Bay Isle Drive were surveyed to document the number of parking spaces available on each property. The Publix property is not included in the parking space survey because it would typically be open during special event hours.

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 mail 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 <IBrownman@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

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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](#)

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***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 <IBrownman@longboatkey.org>; 'Chris Gallagher' <chris@hoztarchitects.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 <AParsons@longboatkey.org>; Alexandra Lowe-Mains <amains@longboatkey.org>

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@hoztarchitects.com>

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

To: Isaac Brownman <IBrownman@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

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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 INFORMATION				ITE <i>TRIP GENERATION MANUAL</i> LAND USE CODE (LUC) CLASSIFICATION	
Concept Plan ID	Use	Area (SF)		LUC 411 (Public Park)	LUC 495 (Recreational Community Center)
1	Stage Pad	1,000		86,500 SF (1.986 Acres)	--
2	Great Lawn	23,000			
3	Esplanade	9,200			
4	Ped Walkways	10,800			
5	Restroom Facility	500			
8	Sod	42,000			
10	Building Pad A	11,200	x2	37,800	--
11	Building Pad B	7,700	x2		

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
 - 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
- Buildout (estimated 2022) Conditions
 - 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.

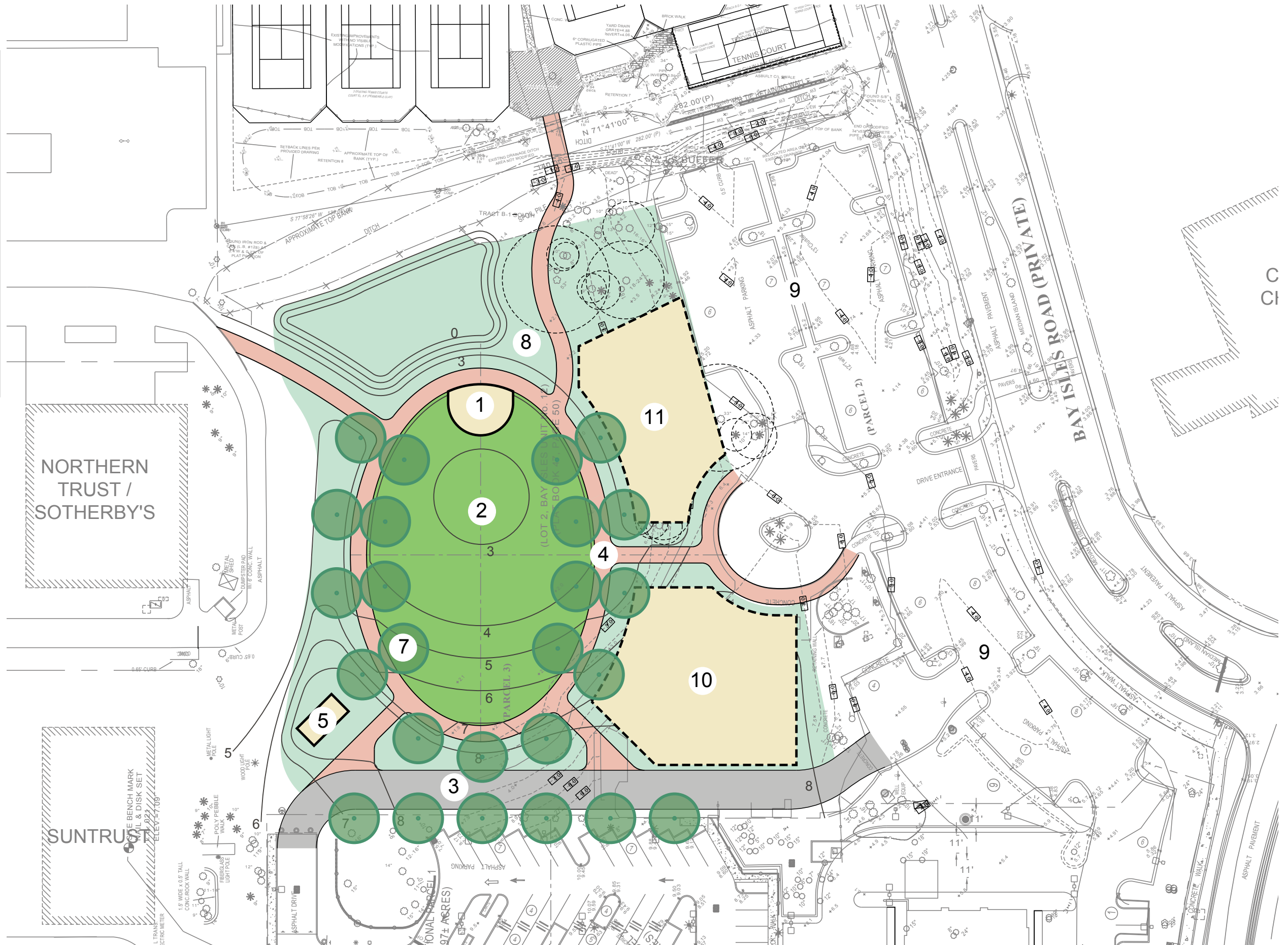
The results of the weekday p.m. peak-hour analysis will identify potential traffic issues at the study intersections that may need to be addressed as part of the transportation concurrency process

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 Longboat Key, Florida

Scale: 1"=60'-0"

Date: 04.22.2020

DATA COLLECTION LOCATIONS



Appendix B:
Turning Movement Counts



National Data & Surveying Services

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

Date: **04/24/2021**

Weather: **Sunny**

City: **Longboat Key**

County: **Sarasota**

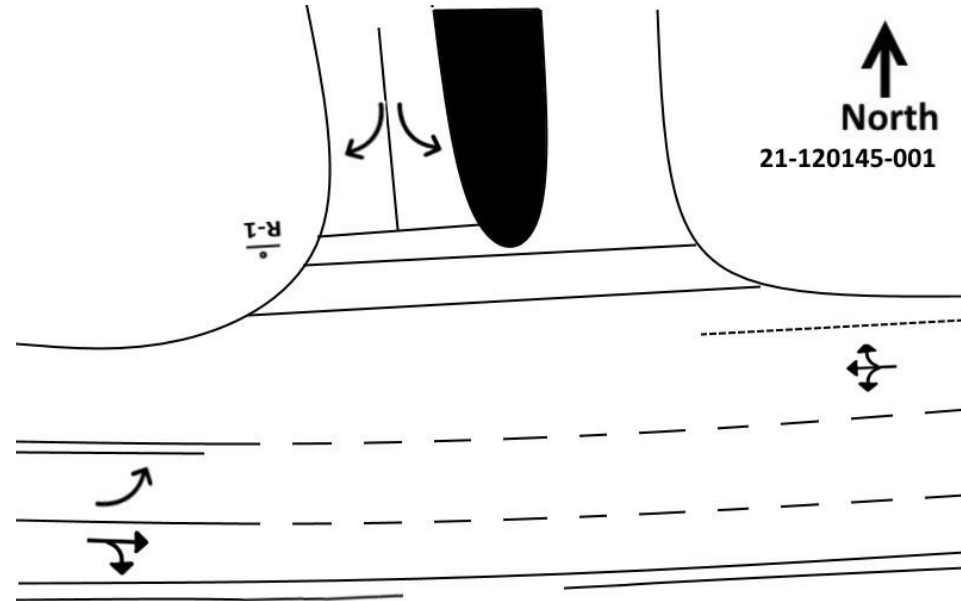
Count Times: **16:00 - 18:00**

Control: **1-Way Stop (SB)**



N/S Street: **Bay Isles Rd**

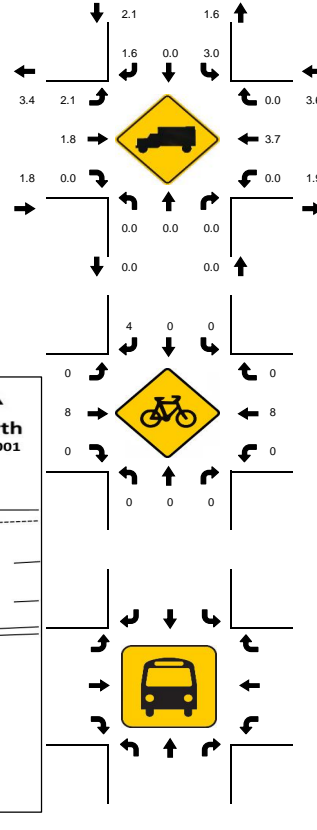
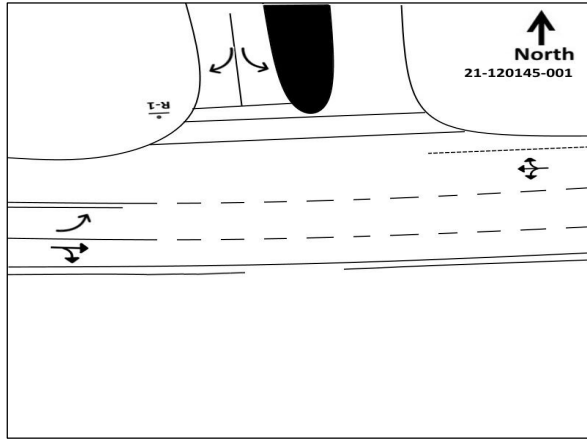
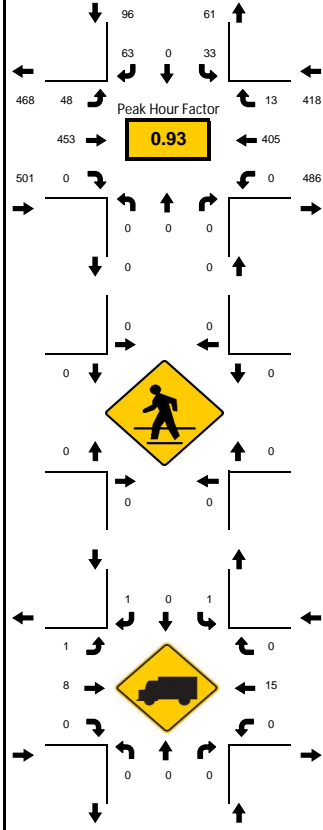
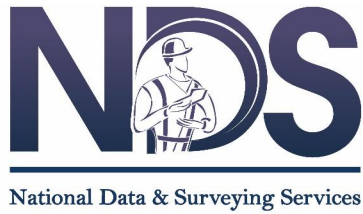
Speed: **N/A**



E/W Street: **Gulf of Mexico Dr**

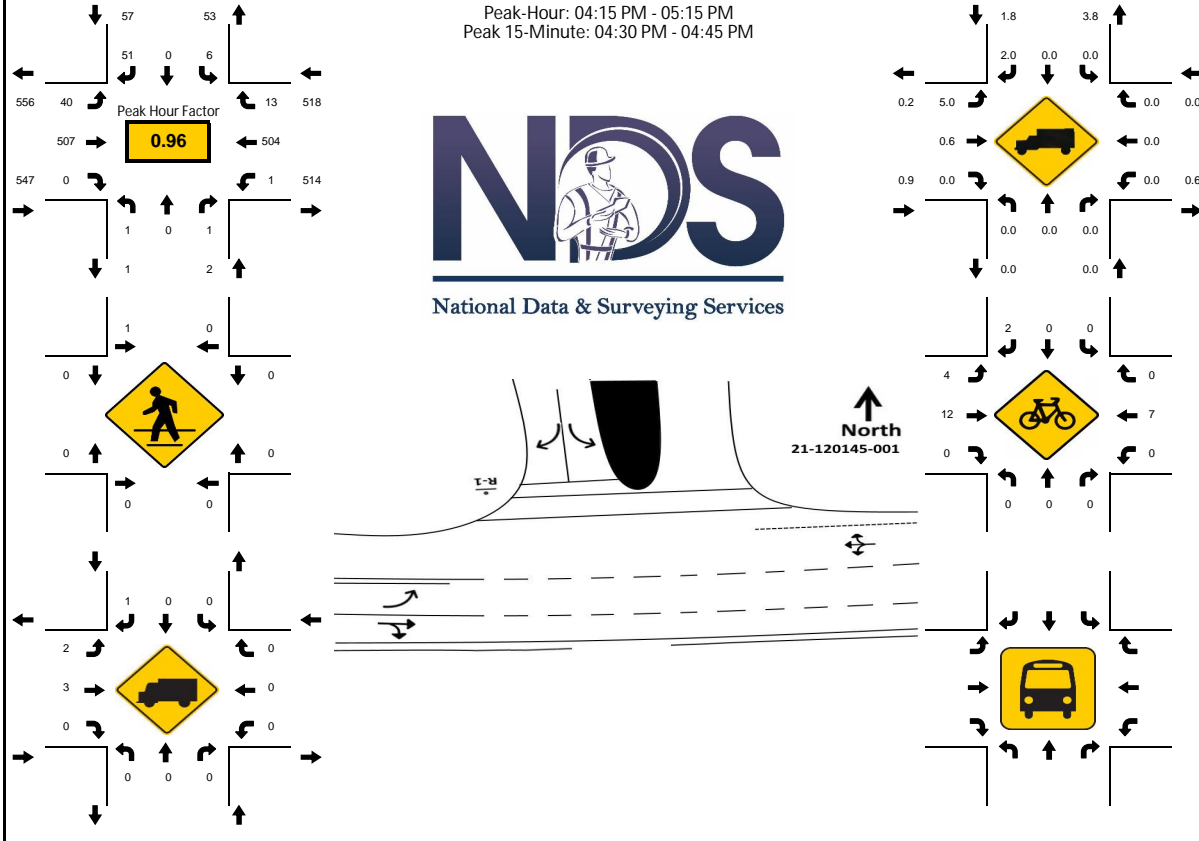
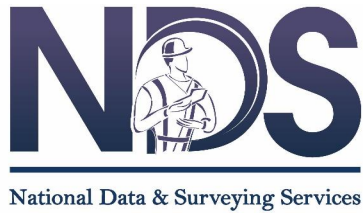
Speed: **45 MPH**

Peak-Hour: 04:15 PM - 05:15 PM
 Peak 15-Minute: 05:00 PM - 05:15 PM



15-Min Count Period Beginning At	Bay Isles Rd Northbound					Bay Isles Rd Southbound					Gulf of Mexico Dr Eastbound					Gulf of Mexico Dr Westbound					Total	Hourly Total
	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*		
04:00 PM	0	0	0	0	0	4	0	11	0	11	118	0	0	0	107	1	0	252	993			
04:15 PM	0	0	0	0	0	10	0	10	0	17	125	0	0	0	88	2	0	252	1015			
04:30 PM	0	0	0	0	0	3	0	16	0	12	105	0	0	0	131	5	0	272	990			
04:45 PM	0	0	0	0	0	7	0	19	0	8	90	0	0	0	90	3	0	217	947			
05:00 PM	0	0	0	0	0	13	0	18	0	11	133	0	0	0	96	3	0	274	954			
05:15 PM	0	0	0	0	0	5	0	16	0	8	116	0	0	0	80	2	0	227	680			
05:30 PM	0	0	0	0	0	4	0	9	0	9	115	0	0	0	88	4	0	229	453			
05:45 PM	0	0	0	0	0	4	0	12	0	6	99	0	0	0	102	1	0	224	224			
Peak 15-Min Flowrates	Northbound					Southbound					Eastbound					Westbound					Total	
All Vehicles	0	0	0	0	0	52	0	76	0	68	532	0	0	0	524	20	0	1272				
Heavy Trucks	0	0	0	0	0	4	0	4	0	4	12	0	0	0	32	0	0	56				
Pedestrians	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Bicycles	0	0	0	0	0	0	0	4	0	0	16	0	0	0	12	0	0	32				
Buses																						
Stopped Buses																						

Peak-Hour: 04:15 PM - 05:15 PM
 Peak 15-Minute: 04:30 PM - 04:45 PM



15-Min Count Period Beginning At	Bay Isles Rd Northbound					Bay Isles Rd Southbound					Gulf of Mexico Dr Eastbound					Gulf of Mexico Dr Westbound					Total	Hourly Total
	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*		
04:00 PM	0	0	0	0	0	1	0	13	0	0	10	113	0	0	0	0	122	1	0	0	260	1118
04:15 PM	0	0	1	0	0	2	0	14	0	0	3	137	0	0	0	1	122	5	0	0	285	1124
04:30 PM	0	0	0	0	0	1	0	13	0	0	15	135	0	0	0	0	124	5	0	0	293	1111
04:45 PM	1	0	0	0	0	1	0	16	0	0	12	108	0	0	0	0	141	1	0	0	280	1069
05:00 PM	0	0	0	0	0	2	0	8	0	0	10	127	0	0	0	0	117	2	0	0	266	1058
05:15 PM	0	0	0	0	0	2	0	9	0	0	12	144	0	0	0	0	102	3	0	0	272	792
05:30 PM	0	0	0	0	0	1	0	11	0	0	11	131	0	0	0	0	96	1	0	0	251	520
05:45 PM	0	0	0	0	0	1	0	10	0	0	9	147	0	0	0	0	100	2	0	0	269	269
Peak 15-Min Flowrates	Northbound					Southbound					Eastbound					Westbound					Total	
All Vehicles	4	0	4	0	0	8	0	64	0	0	60	548	0	0	0	4	564	20	0	0	1276	
Heavy Trucks	0	0	0	0	0	0	0	4	0	0	8	8	0	0	0	0	0	0	0	0	20	
Pedestrians	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4	
Bicycles	0	0	0	0	0	0	0	4	0	0	8	20	0	0	0	0	8	0	0	0	40	
Buses																						
Stopped Buses																						



National Data & Surveying Services

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

Date: **04/24/2021**

Weather: **Sunny**

City: **Longboat Key**

County: **Sarasota**

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

Control: **Signalized**

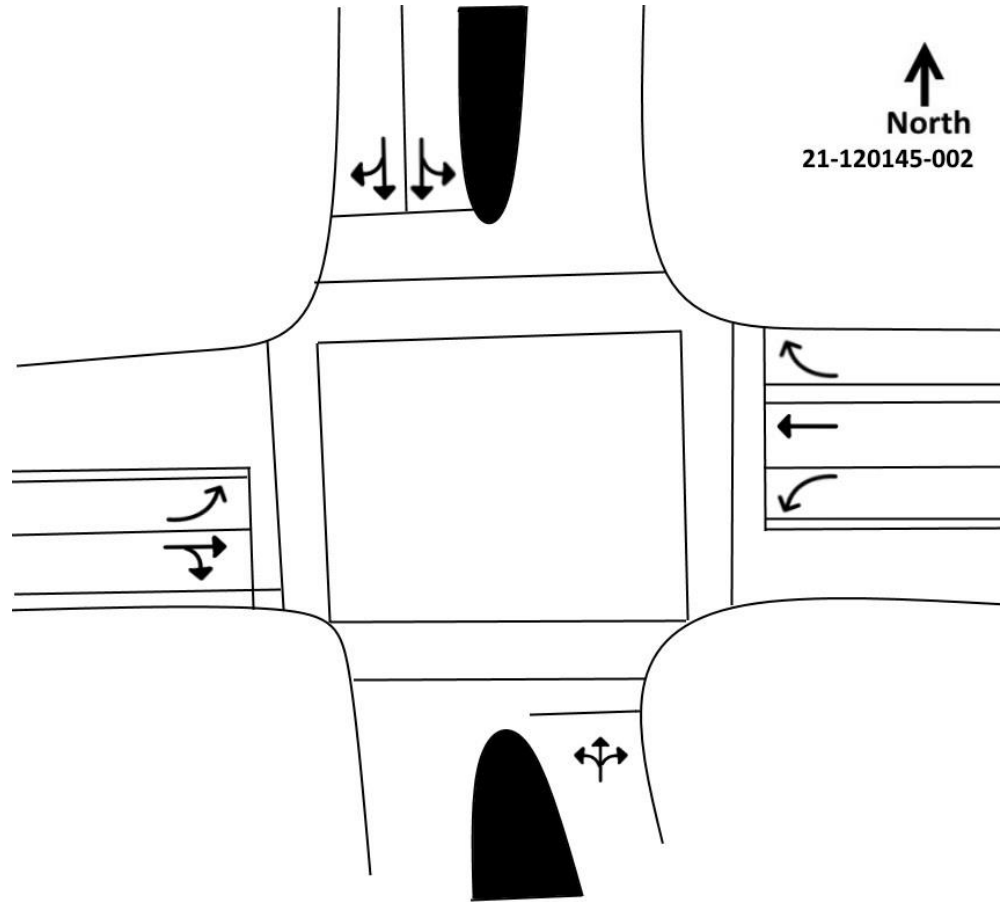
SIGNAL TIMING

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**

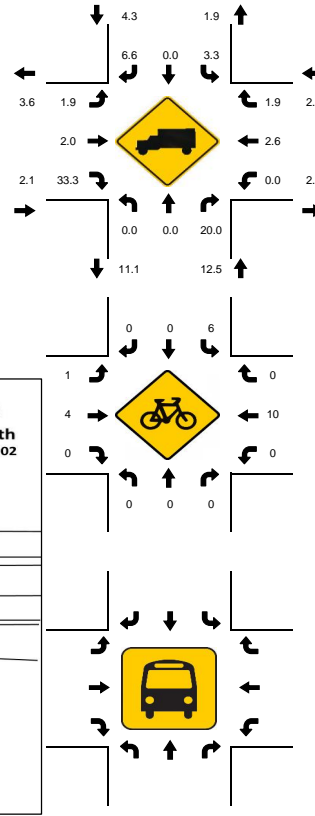
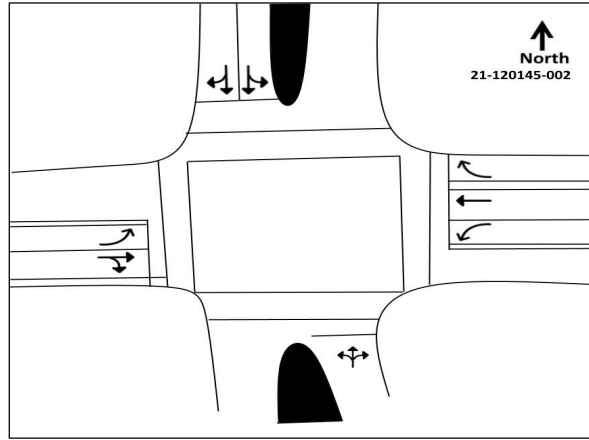
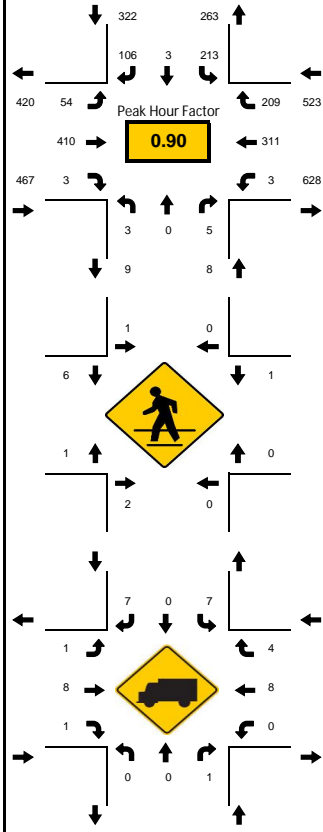
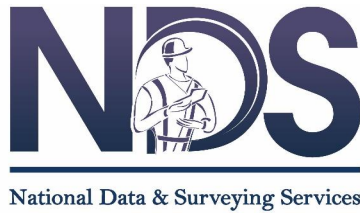


North
21-120145-002

E/W Street: **Gulf of Mexico Dr**

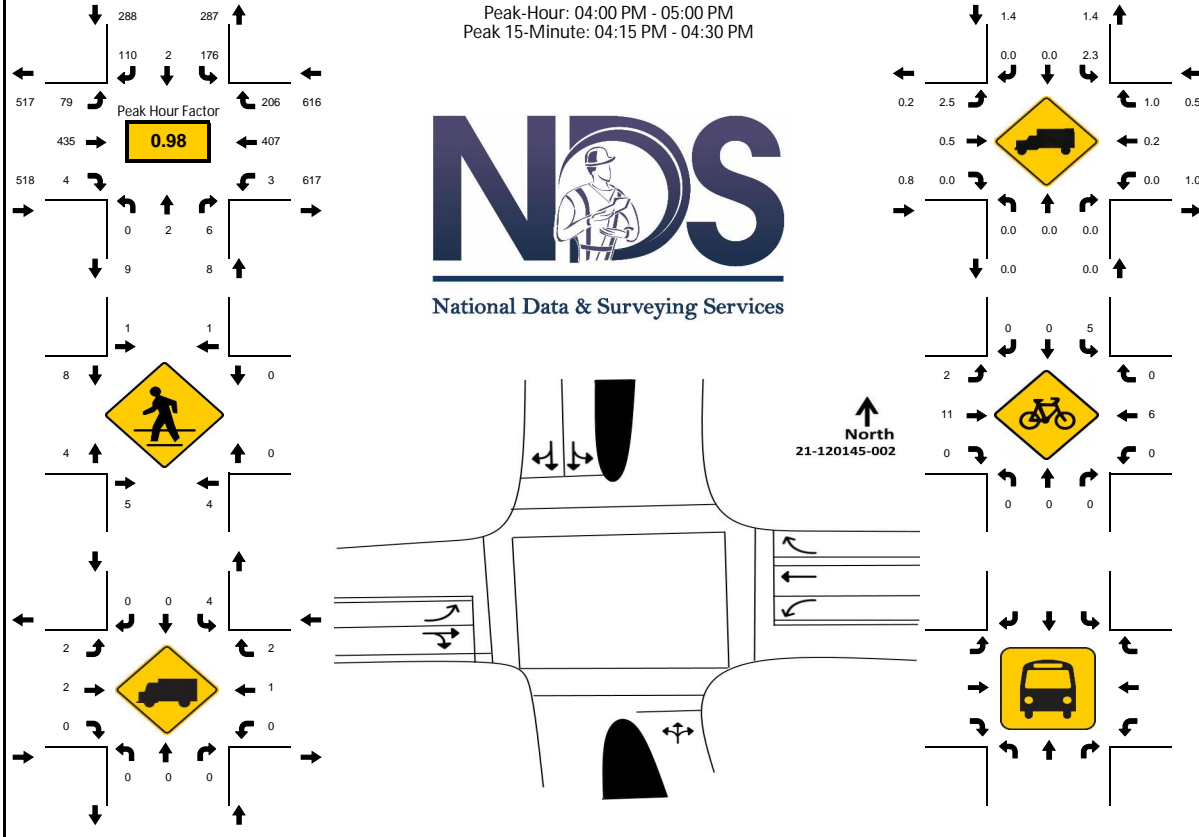
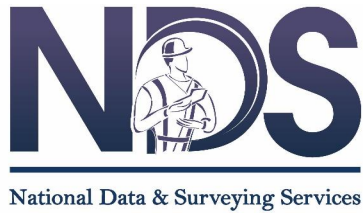
Speed: **45 MPH**

Peak-Hour: 04:00 PM - 05:00 PM
 Peak 15-Minute: 04:00 PM - 04:15 PM



15-Min Count Period Beginning At	Bay Isles Pkwy Northbound					Bay Isles Pkwy Southbound					Gulf of Mexico Dr Eastbound					Gulf of Mexico Dr Westbound					Total	Hourly Total
	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*		
04:00 PM	1	0	1	0		74	1	31	0		14	112	2	0		0	76	56	0		368	1320
04:15 PM	0	0	2	0		49	0	16	0		13	113	0	0		1	72	47	0		313	1309
04:30 PM	1	0	0	0		51	1	36	0		9	103	0	0		2	100	55	0		358	1291
04:45 PM	1	0	2	0		39	1	23	0		18	82	1	0		0	63	51	0		281	1248
05:00 PM	0	0	0	0		58	0	26	0		18	129	1	0		1	80	44	0		357	1271
05:15 PM	0	1	2	0		51	2	15	0		21	98	1	0		4	61	39	0		295	914
05:30 PM	1	0	1	0		49	1	24	0		20	105	1	0		2	78	33	0		315	619
05:45 PM	0	1	2	0		62	0	25	0		8	93	0	0		0	75	38	0		304	304
Peak 15-Min Flowrates	Northbound					Southbound					Eastbound					Westbound					Total	
All Vehicles	4	0	8	0		296	4	144	0		72	452	8	0		8	400	224	0		1620	
Heavy Trucks	0	0	4	0		12	0	16	0		4	12	4	0		0	20	8	0		80	
Pedestrians		4					4					12					4				24	
Bicycles	0	0	0	0		16	0	0	0		4	12	0	0		0	16	0	0		48	
Buses																						
Stopped Buses																						

Peak-Hour: 04:00 PM - 05:00 PM
 Peak 15-Minute: 04:15 PM - 04:30 PM



15-Min Count Period Beginning At	Bay Isles Pkwy Northbound					Bay Isles Pkwy Southbound					Gulf of Mexico Dr Eastbound					Gulf of Mexico Dr Westbound					Total	Hourly Total
	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*		
04:00 PM	0	0	1	0		51	1	24	0		22	102	0	0		1	99	52	0		353	1430
04:15 PM	0	0	0	0		33	1	22	0		23	124	0	0		0	103	57	0		363	1415
04:30 PM	0	0	2	0		46	0	35	0		19	105	4	0		1	101	48	0		361	1387
04:45 PM	0	2	3	0		46	0	29	0		15	104	0	0		1	104	49	0		353	1360
05:00 PM	0	2	1	0		50	0	19	1		21	101	0	0		0	95	48	0		338	1329
05:15 PM	0	1	0	0		48	0	31	0		21	120	0	0		0	79	35	0		335	991
05:30 PM	0	0	3	0		44	2	30	0		22	118	0	0		2	71	42	0		334	656
05:45 PM	2	1	0	0		36	1	22	0		22	120	0	0		0	73	45	0		322	322
Peak 15-Min Flowrates	Northbound					Southbound					Eastbound					Westbound					Total	
All Vehicles	0	8	12	0		204	4	140	0		92	496	16	0		4	416	228	0		1620	
Heavy Trucks	0	0	0	0		12	0	0	0		4	4	0	0		0	4	4	0		28	
Pedestrians		16					4					20					0				40	
Bicycles	0	0	0	0		8	0	0	0		8	20	0	0		0	12	0	0		48	
Buses																						
Stopped Buses																						



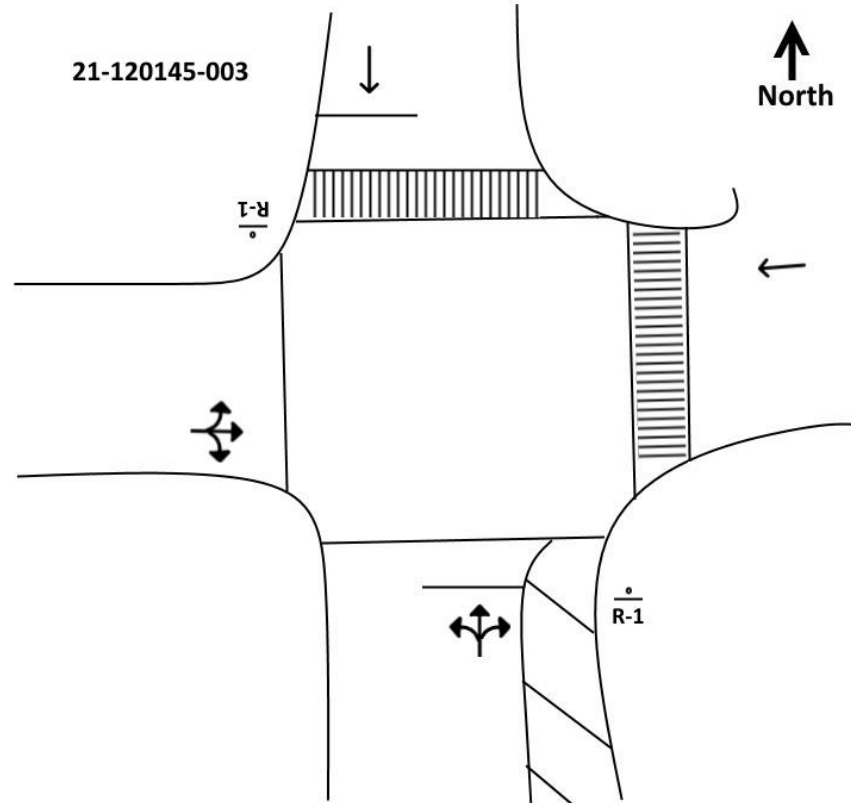
National Data & Surveying Services

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**

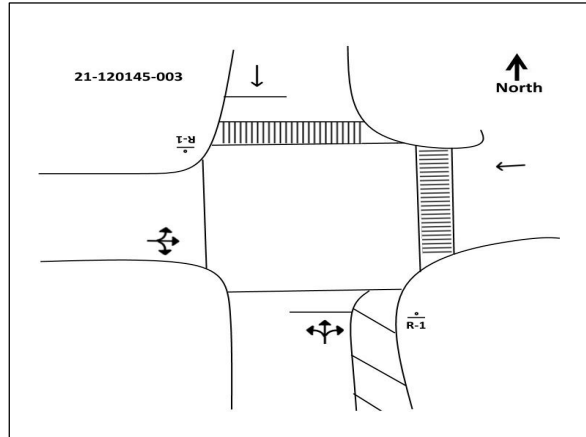
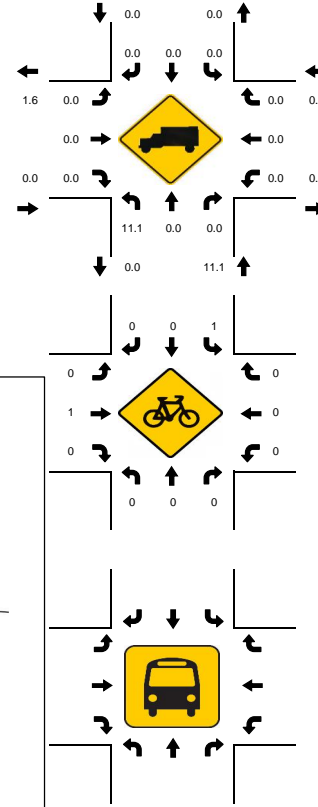
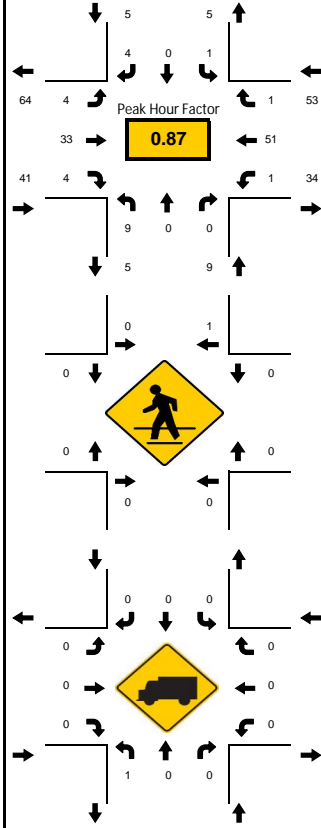
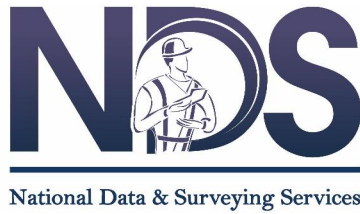
Speed: **N/A**



E/W Street: **E/O Bay Isles Rd**

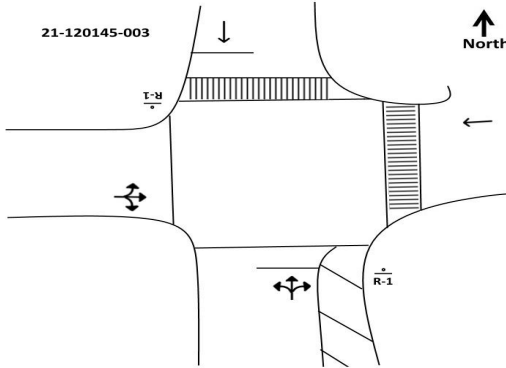
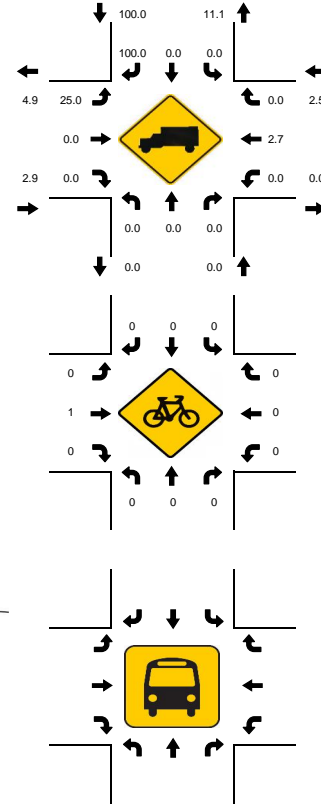
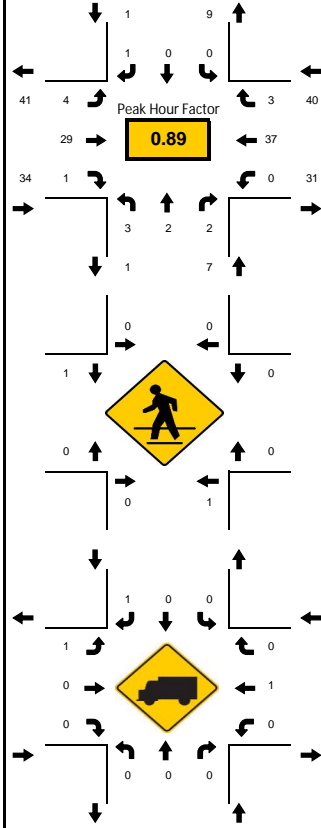
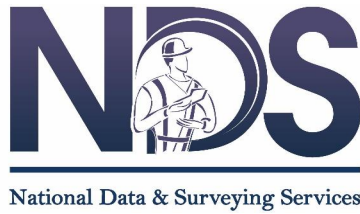
Speed: **N/A**

Peak-Hour: 04:30 PM - 05:30 PM
 Peak 15-Minute: 04:30 PM - 04:45 PM



15-Min Count Period Beginning At	of the Flowers Town Plaza Inter Northbound					of the Flowers Town Plaza Inter Southbound					E/O Bay Isles Rd Eastbound					E/O Bay Isles Rd Westbound					Total	Hourly Total
	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*		
04:00 PM	1	0	1	0	0	0	0	1	0	0	0	8	1	0	0	0	12	0	0	0	24	97
04:15 PM	2	0	0	0	0	0	0	1	0	0	1	8	1	0	0	0	5	0	0	0	18	101
04:30 PM	3	0	0	0	0	0	0	0	0	0	1	12	1	0	0	0	14	0	0	0	31	108
04:45 PM	2	0	0	0	0	0	0	0	0	0	2	6	0	0	0	1	13	0	0	0	24	94
05:00 PM	1	0	0	0	0	1	0	2	0	0	0	6	2	0	0	0	16	0	0	0	28	87
05:15 PM	3	0	0	0	0	0	0	2	0	0	1	9	1	0	0	0	8	1	0	0	25	59
05:30 PM	0	0	0	0	0	0	1	0	0	0	0	6	0	0	0	1	9	0	0	0	17	34
05:45 PM	1	0	0	0	0	0	0	0	0	0	1	3	2	0	0	0	10	0	0	0	17	17
Peak 15-Min Flowrates	Northbound					Southbound					Eastbound					Westbound					Total	
All Vehicles	12	0	0	0	0	4	0	8	0	0	8	48	8	0	0	4	64	4	0	0	160	
Heavy Trucks	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
Pedestrians	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4	
Bicycles	0	0	0	0	0	4	0	0	0	0	0	4	0	0	0	0	0	0	0	0	8	
Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Stopped Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Peak-Hour: 04:15 PM - 05:15 PM
 Peak 15-Minute: 04:45 PM - 05:00 PM



15-Min Count Period Beginning At	of the Flowers Town Plaza Inter Northbound					of the Flowers Town Plaza Inter Southbound					EVO Bay Isles Rd Eastbound					EVO Bay Isles Rd Westbound					Total	Hourly Total
	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*		
04:00 PM	2	0	0	0	0	0	0	0	0	0	1	5	0	0	0	0	11	1	0	0	20	82
04:15 PM	1	0	0	0	0	0	0	1	0	0	1	6	0	0	0	0	9	0	0	0	18	82
04:30 PM	0	0	1	0	0	0	0	0	0	0	0	8	0	0	0	0	12	0	0	0	21	79
04:45 PM	1	2	1	0	0	0	0	0	0	0	2	7	0	0	0	0	7	3	0	0	23	75
05:00 PM	1	0	0	0	0	0	0	0	0	0	1	8	1	0	0	0	9	0	0	0	20	71
05:15 PM	0	0	0	0	0	0	0	0	0	0	1	7	0	0	0	0	6	1	0	0	15	51
05:30 PM	0	0	0	0	0	1	0	2	0	0	1	7	0	0	0	0	6	0	0	0	17	36
05:45 PM	1	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	8	1	0	0	19	19
Peak 15-Min Flowrates	Northbound					Southbound					Eastbound					Westbound					Total	
All Vehicles	4	8	4	0	0	0	0	4	0	0	8	32	4	0	0	0	48	12	0	0	124	
Heavy Trucks	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	4	0	0	0	12	
Pedestrians	0	4	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	8	
Bicycles	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	4	
Buses																						
Stopped Buses																						



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

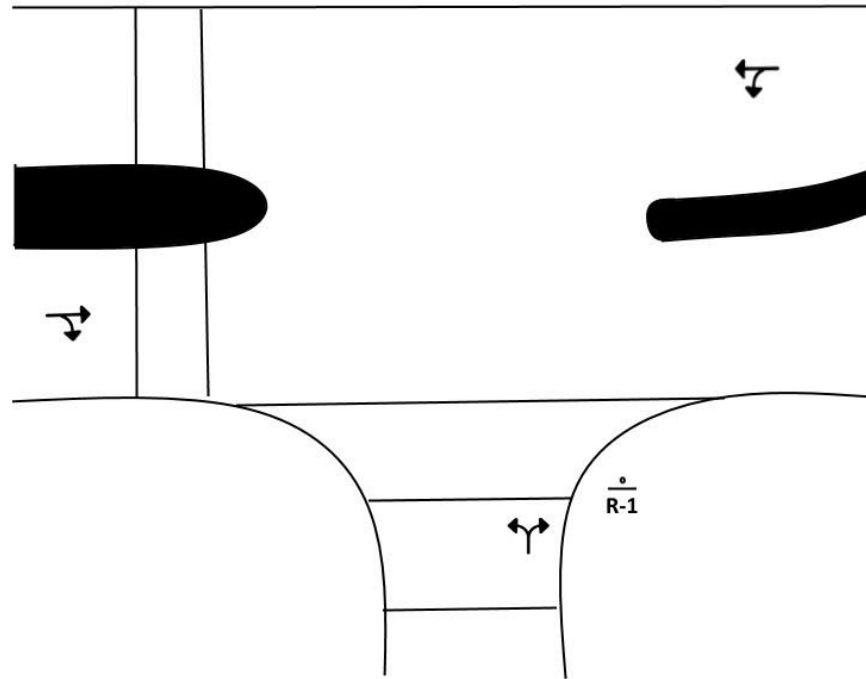
Control: 1-Way Stop(NB)



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

Speed: N/A

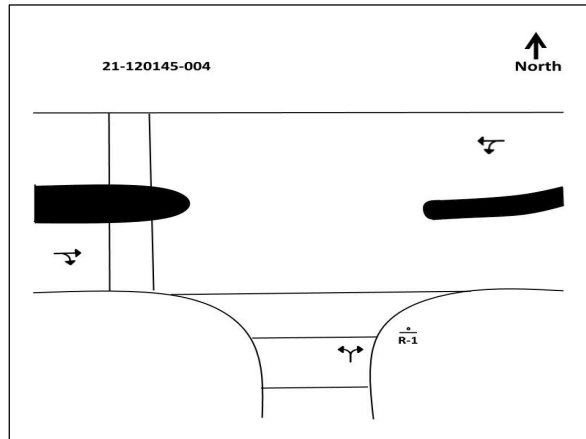
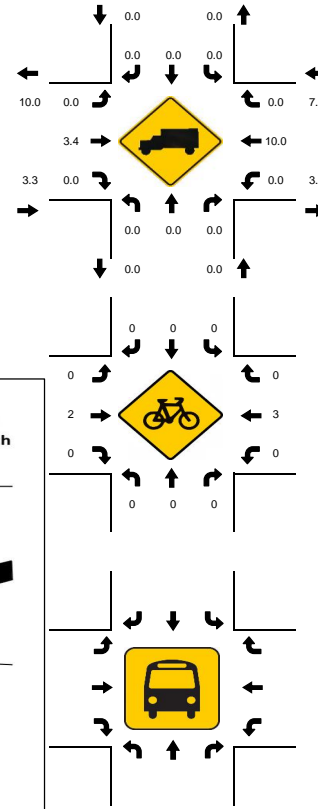
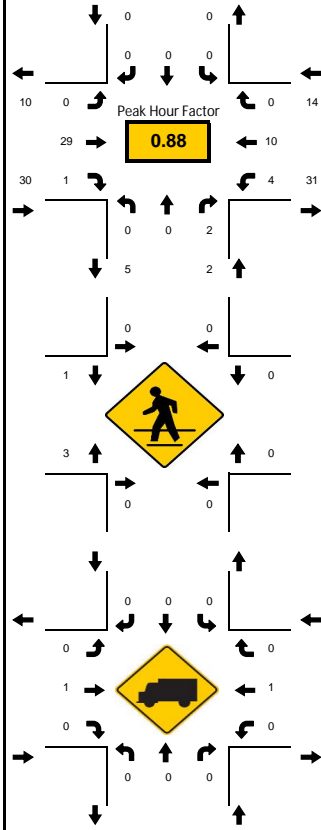
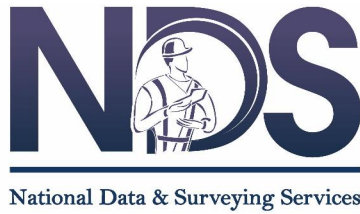
21-120145-004



E/W Street: Bay Isles Rd

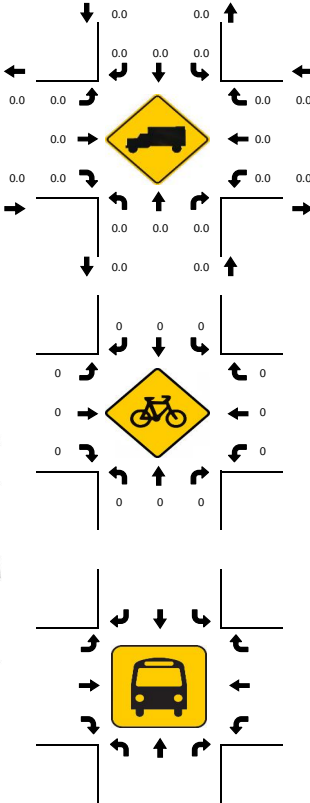
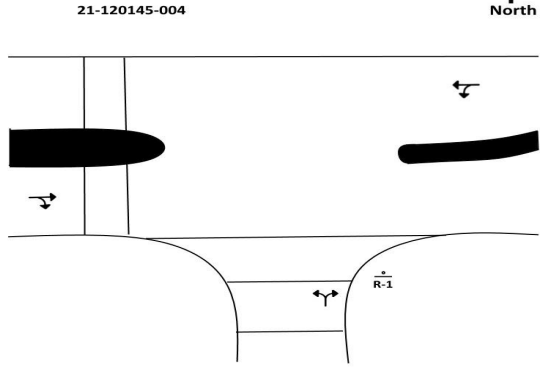
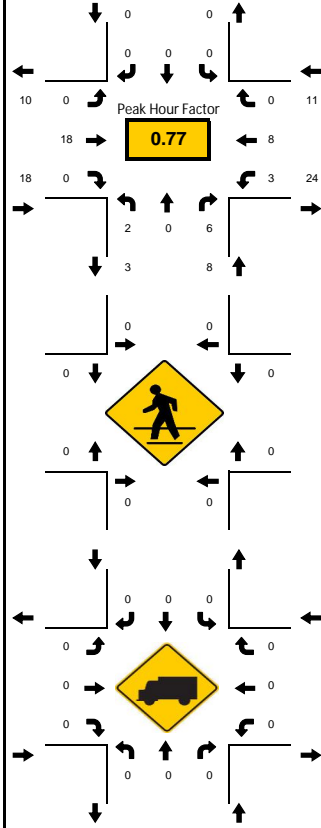
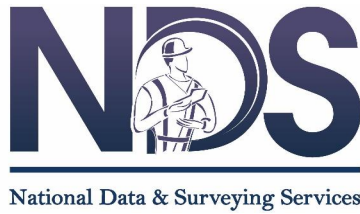
Speed: N/A

Peak-Hour: 04:45 PM - 05:45 PM
 Peak 15-Minute: 04:45 PM - 05:00 PM



15-Min Count Period Beginning At	Blockbuster Express Dwy/W/O Bay Isles Northbound					Blockbuster Express Dwy/W/O Bay Isles Southbound					Bay Isles Rd Eastbound					Bay Isles Rd Westbound					Total	Hourly Total
	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*		
04:00 PM	1	0	3	0		0	0	0	0		0	4	0	0		0	3	0	0		11	44
04:15 PM	0	0	0	0		0	0	0	0		0	5	0	0		2	4	0	0		11	46
04:30 PM	1	0	1	0		0	0	0	0		0	7	0	0		0	0	0	0		9	45
04:45 PM	0	0	0	0		0	0	0	0		0	8	0	0		1	4	0	0		13	46
05:00 PM	0	0	1	0		0	0	0	0		0	9	1	0		1	1	0	0		13	39
05:15 PM	0	0	1	0		0	0	0	0		0	4	0	0		0	3	0	2		10	26
05:30 PM	0	0	0	0		0	0	0	0		0	8	0	0		0	2	0	0		10	16
05:45 PM	0	0	0	0		0	0	0	0		0	3	0	0		2	1	0	0		6	6
Peak 15-Min Flowrates	Northbound					Southbound					Eastbound					Westbound					Total	
All Vehicles	0	0	4	0		0	0	0	0		0	36	4	0		4	16	0	8		72	
Heavy Trucks	0	0	0	0		0	0	0	0		0	4	0	0		0	4	0	0		8	
Pedestrians	0					0	0				12					0					12	
Bicycles	0	0	0	0		0	0	0	0		8	0	0			0	4	0	0		12	
Buses																						
Stopped Buses																						

Peak-Hour: 04:45 PM - 05:45 PM
 Peak 15-Minute: 04:45 PM - 05:00 PM



15-Min Count Period Beginning At	uster Express DwyW/O Bay Isle Northbound					uster Express DwyW/O Bay Isle Southbound					Bay Isles Rd Eastbound					Bay Isles Rd Westbound					Total	Hourly Total
	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*		
04:00 PM	0	0	1	0		0	0	0	0		0	7	0	0		1	2	0	0		11	35
04:15 PM	0	0	1	0		0	0	0	0		0	2	1	0		0	1	0	0		5	32
04:30 PM	0	0	0	0		0	0	0	0		0	4	0	0		0	3	0	0		7	34
04:45 PM	0	0	2	0		0	0	0	0		0	6	0	0		1	3	0	0		12	37
05:00 PM	1	0	2	0		0	0	0	0		0	2	0	0		2	1	0	0		8	33
05:15 PM	1	0	0	0		0	0	0	0		0	5	0	0		0	1	0	0		7	25
05:30 PM	0	0	2	0		0	0	0	0		0	5	0	0		0	3	0	0		10	18
05:45 PM	0	0	1	0		0	0	0	0		0	6	0	0		0	1	0	0		8	8
Peak 15-Min Flowrates	Northbound					Southbound					Eastbound					Westbound					Total	
All Vehicles	4	0	8	0		0	0	0	0		0	24	0	0		8	12	0	0		56	
Heavy Trucks	0	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0		0	
Pedestrians	0	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0		0	
Bicycles	0	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0		0	
Buses	0	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0		0	
Stopped Buses	0	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0		0	



National Data & Surveying Services

Site Code: 21-120145-005

Date: 04/24/2021

Weather: Sunny

City: Longboat Key

County: Sarasota

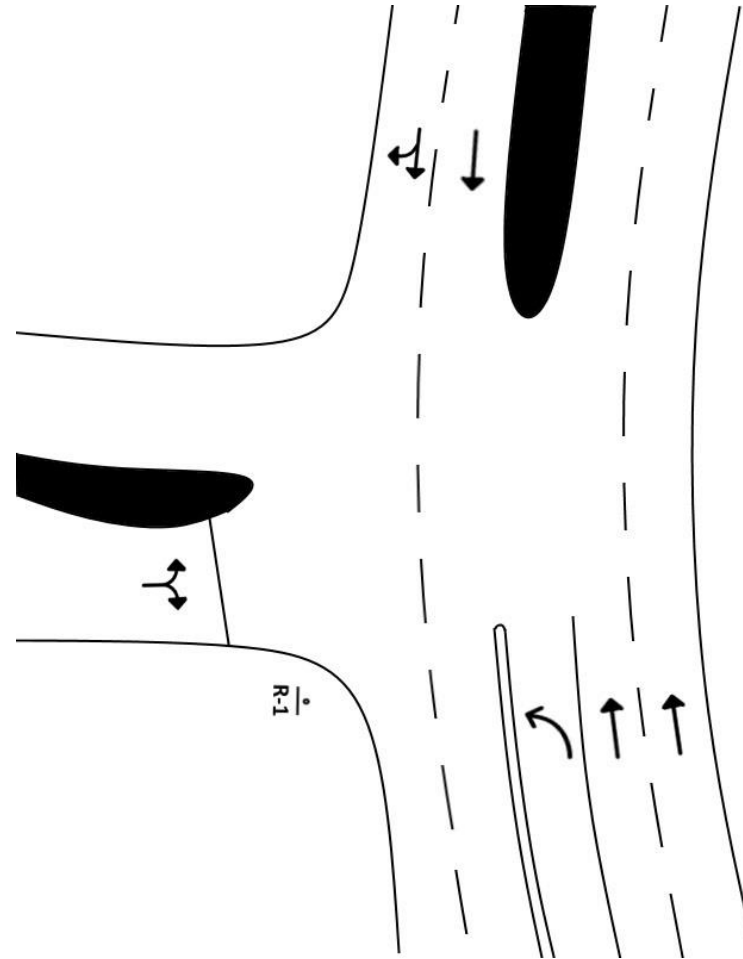
Count Times: 16:00 - 18:00

Control: 1-Way Stop(EB)



N/S Street: Bay Isles Pkwy

Speed: N/A



North
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

WEEK	DATES	SF	MOCF: 0.91 PSCF
* 1	01/01/2020 - 01/04/2020	1.01	1.11
* 2	01/05/2020 - 01/11/2020	0.95	1.04
* 3	01/12/2020 - 01/18/2020	0.89	0.98
* 4	01/19/2020 - 01/25/2020	0.87	0.96
* 5	01/26/2020 - 02/01/2020	0.85	0.93
* 6	02/02/2020 - 02/08/2020	0.83	0.91
* 7	02/09/2020 - 02/15/2020	0.81	0.89
* 8	02/16/2020 - 02/22/2020	0.84	0.92
* 9	02/23/2020 - 02/29/2020	0.87	0.96
*10	03/01/2020 - 03/07/2020	0.90	0.99
*11	03/08/2020 - 03/14/2020	0.93	1.02
*12	03/15/2020 - 03/21/2020	0.97	1.07
*13	03/22/2020 - 03/28/2020	1.10	1.21
14	03/29/2020 - 04/04/2020	1.23	1.35
15	04/05/2020 - 04/11/2020	1.37	1.51
16	04/12/2020 - 04/18/2020	1.50	1.65
17	04/19/2020 - 04/25/2020	1.38	1.52
18	04/26/2020 - 05/02/2020	1.27	1.40
19	05/03/2020 - 05/09/2020	1.15	1.26
20	05/10/2020 - 05/16/2020	1.04	1.14
21	05/17/2020 - 05/23/2020	1.02	1.12
22	05/24/2020 - 05/30/2020	1.01	1.11
23	05/31/2020 - 06/06/2020	1.00	1.10
24	06/07/2020 - 06/13/2020	0.98	1.08
25	06/14/2020 - 06/20/2020	0.97	1.07
26	06/21/2020 - 06/27/2020	0.98	1.08
27	06/28/2020 - 07/04/2020	0.99	1.09
28	07/05/2020 - 07/11/2020	1.00	1.10
29	07/12/2020 - 07/18/2020	1.01	1.11
30	07/19/2020 - 07/25/2020	1.02	1.12
31	07/26/2020 - 08/01/2020	1.03	1.13
32	08/02/2020 - 08/08/2020	1.04	1.14
33	08/09/2020 - 08/15/2020	1.05	1.15
34	08/16/2020 - 08/22/2020	1.05	1.15
35	08/23/2020 - 08/29/2020	1.05	1.15
36	08/30/2020 - 09/05/2020	1.05	1.15
37	09/06/2020 - 09/12/2020	1.05	1.15
38	09/13/2020 - 09/19/2020	1.06	1.16
39	09/20/2020 - 09/26/2020	1.04	1.14
40	09/27/2020 - 10/03/2020	1.03	1.13
41	10/04/2020 - 10/10/2020	1.01	1.11
42	10/11/2020 - 10/17/2020	1.00	1.10
43	10/18/2020 - 10/24/2020	1.00	1.10
44	10/25/2020 - 10/31/2020	1.00	1.10
45	11/01/2020 - 11/07/2020	1.00	1.10
46	11/08/2020 - 11/14/2020	1.00	1.10
47	11/15/2020 - 11/21/2020	1.00	1.10
48	11/22/2020 - 11/28/2020	1.00	1.10
49	11/29/2020 - 12/05/2020	1.00	1.10
50	12/06/2020 - 12/12/2020	1.00	1.10
51	12/13/2020 - 12/19/2020	1.01	1.11
52	12/20/2020 - 12/26/2020	0.95	1.04
53	12/27/2020 - 12/31/2020	0.89	0.98

* PEAK SEASON

Appendix D:
Signal Timing Information

FDOT - DISTRICT 1
Signal Timing Report
 (For isolated traffic signal)

Drawn By:	<i>RC</i>
Date:	<i>11/2015</i>
Checked By:	<i>EMC</i>
Date:	<i>11/2015</i>

Approved By:	<i>Rha Churaman</i>
	Rovindra Churaman, P.E. # 73829
Date:	<i>11.10.2015</i>

Revisions	Location Details	
04/2015: Updated the controller timing parameters to June 2014 Guidelines. Added detection delay for minor street right turn movements.	Section: 17030	Mile Post: 6.924
	Major Street: SR 789	Orientation: N-S
	Minor Street: Bay Isle Pkwy	Orientation: E-W
	Sig ID: 927	
<i>Implemented: 06.25.2015</i>		

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.

Controller Timings

Movement # (Controller Phase Ø)	1	2	3	4	5	6	7	8	Notes
Direction		SB		WB	SBL	NB		EB	
Turn Type					<i>Prot/Perm</i>				
Min Green		10		7	5	10		7	
Ext		5.0		3.0	3.0	5.0		3.0	
Yellow		4.9		3.7	4.9	4.9		3.7	
All Red		2.0		2.5	2.0	2.0		2.5	
Max I		45		20	10	45		20	
Max II									
Max Limit		50				50			
Adjust By		5				5			
Walk		7		7		7		7	
Flashing Don't Walk		22		18		26		18	
Detector Memory									
Det. Cross Switch.					YES				
Dual Entry		ON		ON		ON		ON	
Recall		MIN				MIN			

SOP 11

Ring - 1	2	4
Ring - 2	5	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

Appendix E:
Sarasota County Generalized Level of Service Tables

**SARASOTA COUNTY
2019 GENERALIZED LEVEL OF SERVICE ANALYSIS**

6/24/2020
10:41 AM

ID #	Road Segments			Segment Attributes						Existing Traffic Conditions						Minimum Adopted Standards	
	Roadway Name	Limits		Jurisdiction	# of Lanes	Segm Length	Analysis Sgmnt Length	Post Spd	Ref No.	Traffic Counts			Adjusted to 2019 AADT	DHV	LOS		
										Source	Date	Volume AADT				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	C	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	C	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
115	Gulf Mexico Dr.(SR 789)	Co Line	New Pass Bridge	FDOT/LBK	2	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	C	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	C	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
119	Higel Ave/Treasure Boat	Midnight Pass Rd	Ocean	County	2	0.12	0.62	35	130	SC	Sep-19	1,051	1,051	117	C	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
119.5	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
121	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
122.7	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
122.7	Honore Avenue	Colonial Oaks	Webber	County	2	0.25	0.25	30	126	SC	Mar-19	11,689	11,689	1,274	E	D	1,264
122.7	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
122.7	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
122.75	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
122.76	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
122.8	Honore Avenue	Proctor	Ashton	County	2	0.50	0.50	30	122	SC	Jun-19	8,390	8,390	914	D	D	1,197
122.8	Honore Avenue	Ashton	Clark	County	2	0.50	0.50	30	143	SC	Jun-19	8,422	8,422	918	D	D	1,264
122.85	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
122.86	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
122.87	Honore Avenue	Palmer Ranch Pkwy	Central Sarasota Pkwy	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

Longboat Key Town Center
1: Bay Isles Parkway & Bay Isles Road

Existing Weekday
Timing Plan: PM Peak-Hour

Intersection						
Int Delay, s/veh	0.9					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	↔		↔	↑↑	↑↑	
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	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

Major/Minor	Minor2	Major1	Major2			
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	-	-	-	-	-
Stage 2	848	-	-	-	-	-
Platoon blocked, %				-	-	-
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	10.9	0.3	0
HCM LOS	B		

Minor Lane/Major Mvmt	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	-	B	-	-
HCM 95th %tile Q(veh)	0	-	0.2	-	-

Longboat Key Town Center
2: Park Driveway 1 & Bay Isles Road

Existing Weekday
Timing Plan: PM Peak-Hour

Intersection						
Int Delay, s/veh	0.7					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↔		↔		↔	
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
Sign Control	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

Major/Minor	Major1	Major2	Minor1	Minor2
Conflicting Flow All	0	0	50	0
Stage 1	-	-	-	-
Stage 2	-	-	-	-
Critical Hdwy	-	-	4.12	-
Critical Hdwy Stg 1	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-
Follow-up Hdwy	-	-	2.218	-
Pot Cap-1 Maneuver	-	-	1557	-
Stage 1	-	-	-	-
Stage 2	-	-	-	-
Platoon blocked, %	-	-	-	-
Mov Cap-1 Maneuver	-	-	1557	-
Mov Cap-2 Maneuver	-	-	-	-
Stage 1	-	-	-	-
Stage 2	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1.2	8.5
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	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	-

Longboat Key Town Center
3: Bay Isles Parkway & Gulf of Mexico Drive

Existing Weekday
Timing Plan: PM Peak-Hour



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↖	↗		↖	↗	↗		↕			↕	
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		0.01	1.00		1.00	0.50		0.50	1.00		0.96
Lane Grp Cap(c), veh/h	306	0	1011	310	719	614	388	0	0	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	1166	502	1189	1015	412	0	0	473	0	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	0.1	6.7	3.3	0.1	0.0	0.0	6.4	0.0	1.7
Unsig. Movement Delay, s/veh												
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	B	A	B	B	C	B	B	A	A	C	A	C
Approach Vol, veh/h		771			813			10				480
Approach Delay, s/veh		14.0			20.2			19.9				29.6
Approach LOS		B			C			B				C
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 (g_c+I1), 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	C

Notes

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

Longboat Key Town Center
4: Gulf of Mexico Drive & Bay Isles Road

Existing Weekday
Timing Plan: PM Peak-Hour

Intersection						
Int Delay, s/veh	2.7					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
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, #	-	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

Major/Minor	Major1	Major2	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	-	-	-	3.527 3.318
Pot Cap-1 Maneuver	903	-	-	-	118 450
Stage 1	-	-	-	-	501 -
Stage 2	-	-	-	-	392 -
Platoon blocked, %		-	-	-	
Mov Cap-1 Maneuver	903	-	-	-	108 450
Mov Cap-2 Maneuver	-	-	-	-	242 -
Stage 1	-	-	-	-	457 -
Stage 2	-	-	-	-	392 -

Approach	EB	WB	SB
HCM Control Delay, s	0.9	0	23.7
HCM LOS			C

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	903	-	-	-	348
HCM Lane V/C Ratio	0.088	-	-	-	0.456
HCM Control Delay (s)	9.4	-	-	-	23.7
HCM Lane LOS	A	-	-	-	C
HCM 95th %tile Q(veh)	0.3	-	-	-	2.3

Longboat Key Town Center
5: Park Driveway 2

Existing Weekday
Timing Plan: PM Peak-Hour

Intersection												
Int Delay, s/veh	1.6											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
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, #	-	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			Major2			Minor1			Minor2		
Conflicting Flow All	87	0	0	61	0	0	166	163	58	162	165	86
Stage 1	-	-	-	-	-	-	72	72	-	90	90	-
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	-	-	-	-	-	-	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	1509	-	-	1542	-	-	779	729	1008	803	728	973
Stage 1	-	-	-	-	-	-	916	835	-	917	820	-
Stage 2	-	-	-	-	-	-	891	820	-	938	833	-
Platoon blocked, %	-	-	-	-	-	-	-	-	-	-	-	-
Mov Cap-1 Maneuver	1509	-	-	1542	-	-	770	725	1008	799	724	973
Mov Cap-2 Maneuver	-	-	-	-	-	-	770	725	-	799	724	-
Stage 1	-	-	-	-	-	-	911	831	-	912	819	-
Stage 2	-	-	-	-	-	-	884	819	-	933	829	-

Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.7			0.2			9.8			8.9		
HCM LOS							A			A		

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	770	1509	-	-	1542	-	-	923
HCM Lane V/C Ratio	0.02	0.004	-	-	0.001	-	-	0.009
HCM Control Delay (s)	9.8	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

Longboat Key Town Center
 1: Bay Isles Parkway & Bay Isles Road

Future Weekday
 Timing Plan: PM Peak-Hour

Intersection						
Int Delay, s/veh	2.2					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y		Y	↑↑	↑↑	
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	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

Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	639	180	360	0	-	0
Stage 1	353	-	-	-	-	-
Stage 2	286	-	-	-	-	-
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	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	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	11.2	1.6	0
HCM LOS	B		

Minor Lane/Major Mvmt	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	-	B	-	-
HCM 95th %tile Q(veh)	0.2	-	0.6	-	-

Longboat Key Town Center
2: Park Driveway 1 & Bay Isles Road

Future Weekday
Timing Plan: PM Peak-Hour

Intersection						
Int Delay, s/veh	5.4					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↔		↔		↔	
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
Sign Control	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

Major/Minor	Major1	Major2	Minor1	Minor2
Conflicting Flow All	0	0	62	0
Stage 1	-	-	-	-
Stage 2	-	-	-	-
Critical Hdwy	-	-	4.12	-
Critical Hdwy Stg 1	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-
Follow-up Hdwy	-	-	2.218	-
Pot Cap-1 Maneuver	-	-	1541	-
Stage 1	-	-	-	-
Stage 2	-	-	-	-
Platoon blocked, %	-	-	-	-
Mov Cap-1 Maneuver	-	-	1541	-
Mov Cap-2 Maneuver	-	-	-	-
Stage 1	-	-	-	-
Stage 2	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	5.9	9.1
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
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	-

Longboat Key Town Center
3: Bay Isles Parkway & Gulf of Mexico Drive

Future Weekday
Timing Plan: PM Peak-Hour



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↖	↗		↖	↗	↗		↕			↕	
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		0.01	1.00		1.00	0.50		0.50	1.00		0.97
Lane Grp Cap(c), veh/h	304	0	1031	305	741	633	351	0	0	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	1138	473	1160	991	374	0	0	448	0	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	0.0	11.9	19.3	18.7	17.1	20.8	0.0	0.0	28.9	0.0	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	0.1	7.1	4.2	0.1	0.0	0.0	9.5	0.0	2.2
Unsig. Movement Delay, s/veh												
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
LnGrp LOS	B	A	B	B	C	B	C	A	A	D	A	C
Approach Vol, veh/h		809			884			10				552
Approach Delay, s/veh		14.1			20.3			20.8				41.8
Approach LOS		B			C			C				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+I1), 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	C

Notes

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

Longboat Key Town Center
4: Gulf of Mexico Drive & Bay Isles Road

Future Weekday
Timing Plan: PM Peak-Hour

Intersection						
Int Delay, s/veh	3.4					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
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, #	-	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

Major/Minor	Major1	Major2	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 -

Approach	EB	WB	SB
HCM Control Delay, s	1	0	29.1
HCM LOS			D

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	872	-	-	-	325
HCM Lane V/C Ratio	0.106	-	-	-	0.555
HCM Control Delay (s)	9.6	-	-	-	29.1
HCM Lane LOS	A	-	-	-	D
HCM 95th %tile Q(veh)	0.4	-	-	-	3.2

Longboat Key Town Center
5: Park Driveway 2

Future Weekday
Timing Plan: PM Peak-Hour

Intersection												
Int Delay, s/veh	1.9											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane 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	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, #	-	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	11	55	7	2	87	2	15	0	0	2	0	11

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	89	0	0	62	0	0	179	174	59	173	176	88
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		

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

Longboat Key Town Center
1: Bay Isles Parkway & Bay Isles Road

Existing Saturday
Timing Plan: PM Peak-Hour

Intersection						
Int Delay, s/veh	0.8					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y		Y	↑↑	↑↑	
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, #	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	16	20	7	241	232	13

Major/Minor	Minor2	Major1	Major2			
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	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	597	905	1318	-	-	-
Mov Cap-2 Maneuver	597	-	-	-	-	-
Stage 1	774	-	-	-	-	-
Stage 2	877	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	10.2	0.2	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	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	A	-	B	-	-
HCM 95th %tile Q(veh)	0	-	0.2	-	-

Longboat Key Town Center
2: Park Driveway 1 & Bay Isles Road

Existing Saturday
Timing Plan: PM Peak-Hour

Intersection						
Int Delay, s/veh	2.5					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↔		↔		↔	
Traffic Vol, veh/h	27	0	5	12	3	9
Future Vol, veh/h	27	0	5	12	3	9
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	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	29	0	5	13	3	10

Major/Minor	Major1	Major2	Minor1	Minor2
Conflicting Flow All	0	0	29	0
Stage 1	-	-	-	-
Stage 2	-	-	-	-
Critical Hdwy	-	-	4.12	-
Critical Hdwy Stg 1	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-
Follow-up Hdwy	-	-	2.218	-
Pot Cap-1 Maneuver	-	-	1584	-
Stage 1	-	-	-	-
Stage 2	-	-	-	-
Platoon blocked, %	-	-	-	-
Mov Cap-1 Maneuver	-	-	1584	-
Mov Cap-2 Maneuver	-	-	-	-
Stage 1	-	-	-	-
Stage 2	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	2.1	8.6
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	1021	-	-	1584	-
HCM Lane V/C Ratio	0.013	-	-	0.003	-
HCM Control Delay (s)	8.6	-	-	7.3	0
HCM Lane LOS	A	-	-	A	A
HCM 95th %tile Q(veh)	0	-	-	0	-

Longboat Key Town Center
3: Bay Isles Parkway & Gulf of Mexico Drive

Existing Saturday
Timing Plan: PM Peak-Hour



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↖	↗		↖	↗	↖		↕			↖↗	
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		0.01	1.00		1.00	0.00		0.70	1.00		0.98
Lane Grp Cap(c), veh/h	277	0	1109	334	842	714	0	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	1109	418	1059	898	0	0	407	406	0	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/veh												
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	B	A	B	B	C	B	A	A	C	D	A	C
Approach Vol, veh/h		855			963			10				411
Approach Delay, s/veh		13.4			21.7			24.3				34.0
Approach LOS		B			C			C				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	C

Notes

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

Longboat Key Town Center
4: Gulf of Mexico Drive & Bay Isles Road

Existing Saturday
Timing Plan: PM Peak-Hour

Intersection						
Int Delay, s/veh	1.4					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
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, #	-	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

Major/Minor	Major1	Major2	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, %		-	-	-	
Mov Cap-1 Maneuver	772	-	-	-	79 363
Mov Cap-2 Maneuver	-	-	-	-	208 -
Stage 1	-	-	-	-	386 -
Stage 2	-	-	-	-	368 -

Approach	EB	WB	SB
HCM Control Delay, s	0.7	0	19.8
HCM LOS			C

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
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	B	-	-	-	C
HCM 95th %tile Q(veh)	0.3	-	-	-	1.1

Longboat Key Town Center
5: Park Driveway 2

Existing Saturday
Timing Plan: PM Peak-Hour

Intersection												
Int Delay, s/veh	1.3											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
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, #	-	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	Major1		Major2			Minor1			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			A	A

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	856	1401	-	-	1557	-	-	881
HCM Lane V/C Ratio	0.014	0.005	-	-	-	-	-	0.002
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

Longboat Key Town Center
 1: Bay Isles Parkway & Bay Isles Road

Future Saturday
 Timing Plan: PM Peak-Hour

Intersection						
Int Delay, s/veh	1.6					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	W		W	↑↑	↑↑	
Traffic Vol, veh/h	16	42	36	228	218	13
Future Vol, veh/h	16	42	36	228	218	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	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	Minor2	Major1	Major2			
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	-	-	-	-	-
Stage 2	812	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	10.2	1.1	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1311	-	752	-	-
HCM Lane V/C Ratio	0.03	-	0.084	-	-
HCM Control Delay (s)	7.8	-	10.2	-	-
HCM Lane LOS	A	-	B	-	-
HCM 95th %tile Q(veh)	0.1	-	0.3	-	-

Longboat Key Town Center
2: Park Driveway 1 & Bay Isles Road

Future Saturday
Timing Plan: PM Peak-Hour

Intersection						
Int Delay, s/veh	5.1					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↔		↔		↔	
Traffic Vol, veh/h	28	4	36	12	6	34
Future Vol, veh/h	28	4	36	12	6	34
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	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	30	4	39	13	7	37

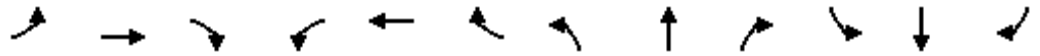
Major/Minor	Major1	Major2	Minor1	Minor2
Conflicting Flow All	0	0	34	0
Stage 1	-	-	-	-
Stage 2	-	-	-	-
Critical Hdwy	-	-	4.12	-
Critical Hdwy Stg 1	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-
Follow-up Hdwy	-	-	2.218	-
Pot Cap-1 Maneuver	-	-	1578	-
Stage 1	-	-	-	-
Stage 2	-	-	-	-
Platoon blocked, %	-	-	-	-
Mov Cap-1 Maneuver	-	-	1578	-
Mov Cap-2 Maneuver	-	-	-	-
Stage 1	-	-	-	-
Stage 2	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	5.5	8.7
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	1008	-	-	1578	-
HCM Lane V/C Ratio	0.043	-	-	0.025	-
HCM Control Delay (s)	8.7	-	-	7.3	0
HCM Lane LOS	A	-	-	A	A
HCM 95th %tile Q(veh)	0.1	-	-	0.1	-

Longboat Key Town Center
3: Bay Isles Parkway & Gulf of Mexico Drive

Future Saturday
Timing Plan: PM Peak-Hour



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↖	↗		↖	↗	↗		↕			↖↗	
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/veh												
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	B	A	B	B	C	B	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		B			C			C				D
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+I1), 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	C

Notes

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

Longboat Key Town Center
4: Gulf of Mexico Drive & Bay Isles Road

Future Saturday
Timing Plan: PM Peak-Hour

Intersection						
Int Delay, s/veh	1.5					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
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, #	-	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

Major/Minor	Major1	Major2	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-2 Maneuver	-	-	-	-	196 -
Stage 1	-	-	-	-	368 -
Stage 2	-	-	-	-	350 -

Approach	EB	WB	SB
HCM Control Delay, s	0.8	0	21.4
HCM LOS			C

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	750	-	-	-	321
HCM Lane V/C Ratio	0.097	-	-	-	0.318
HCM Control Delay (s)	10.3	-	-	-	21.4
HCM Lane LOS	B	-	-	-	C
HCM 95th %tile Q(veh)	0.3	-	-	-	1.3

Longboat Key Town Center
5: Park Driveway 2

Future Saturday
Timing Plan: PM Peak-Hour

Intersection												
Int Delay, s/veh	1.5											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
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
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, #	-	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	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	3.75
Pot Cap-1 Maneuver	1400	-	-	1555	-	-	836	756	1018	835	757	880
Stage 1	-	-	-	-	-	-	942	838	-	946	841	-
Stage 2	-	-	-	-	-	-	943	839	-	939	837	-
Platoon blocked, %	-	-	-	-	-	-	-	-	-	-	-	-
Mov Cap-1 Maneuver	1400	-	-	1555	-	-	828	751	1018	825	752	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		

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:

Line	Month	Year	Volume Source #1	Volume Source #2	Volume Source #3	Volume Source #4	Volume Source #5	Average 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								

INPUT DATA

Line	Month	Year	Aggregate Traffic Volume
1		2014	12750
2		2015	11150
3		2016	10650
4		2017	14350
5		2018	14950
6		2019	11450
7		2020	14150
8			
9			
10			

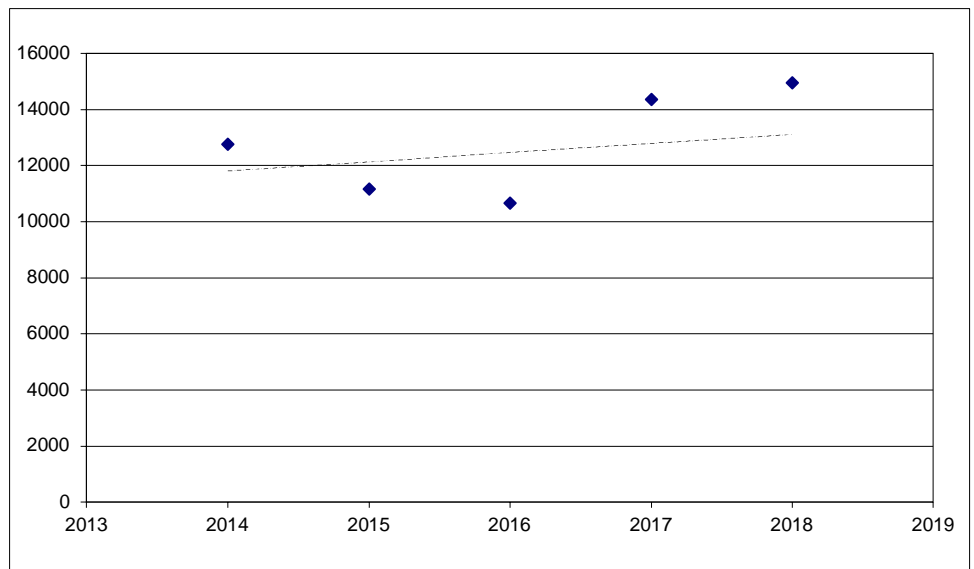
OUTPUT DATA

Line	Month	Year	Best Fit Volume Trend
1		2014	11803.57143
2		2015	12128.57143
3		2016	12453.57143
4		2017	12778.57143
5		2018	13103.57143
6		2019	13428.57143
7		2020	13753.57143
8			
9			
10			

Slope: 325
 Intercept: -642746.4286
 R^2 : 0.164175258
 Standard Error: 1735.326235

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

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





LANDSCAPE ARCHITECTS

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.

2. 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.

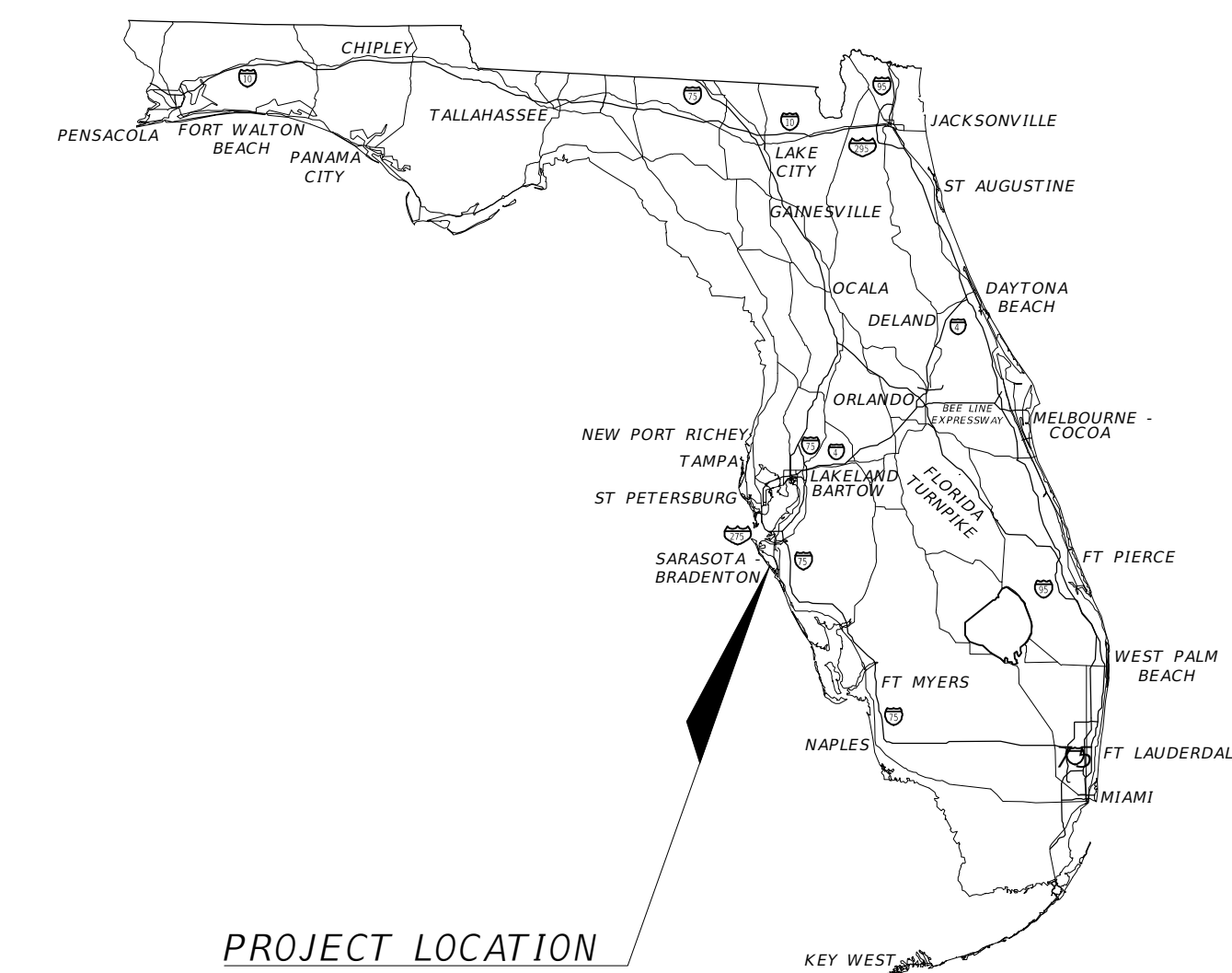
Respectfully submitted, Phillip J. Smith, ASLA

TOWN CENTER IMPROVEMENT CONTRACT PLANS

OUTDOOR VENUE
592 BAY ISLES RD LONGBOAT KEY, FL, 34228

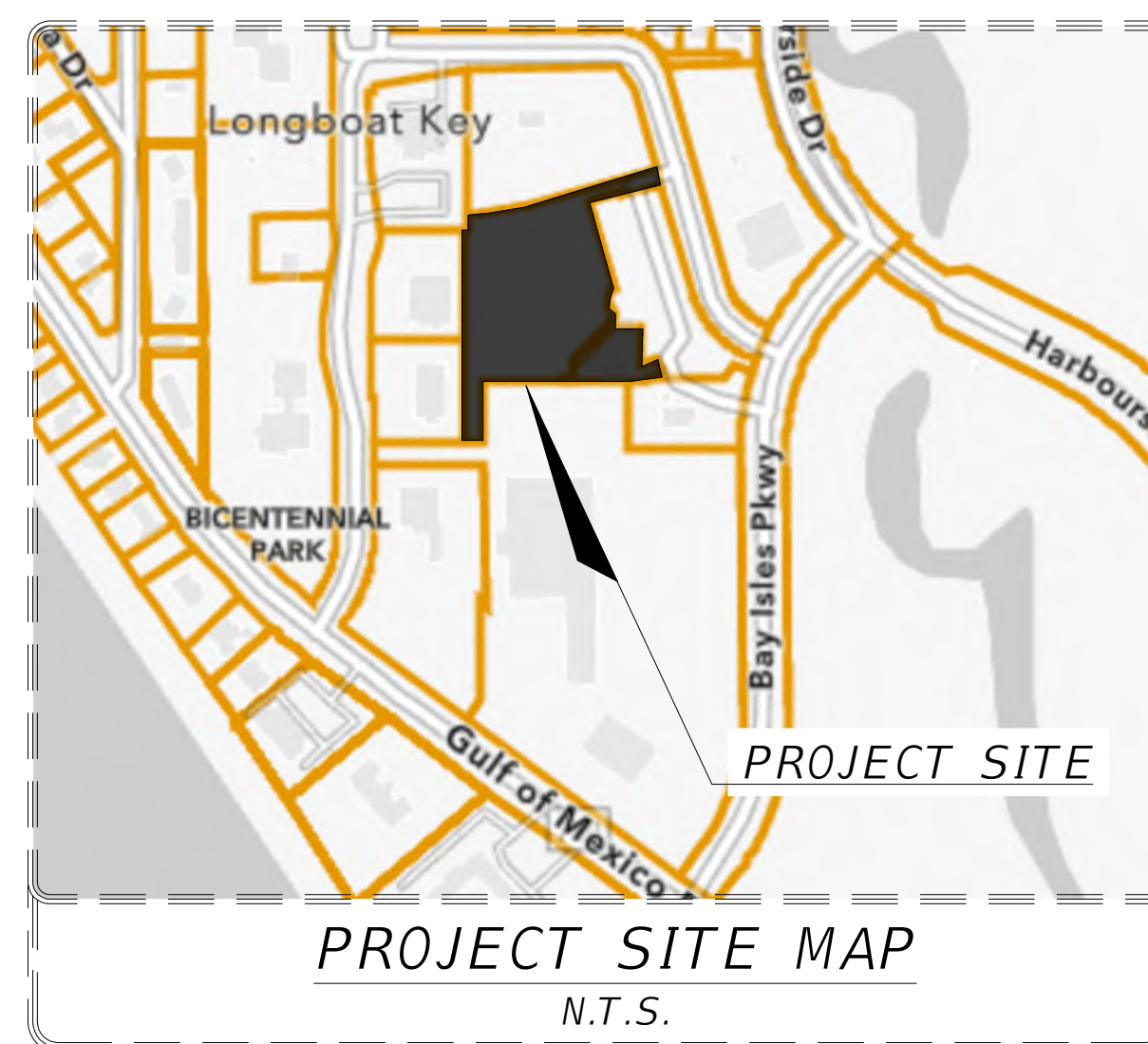
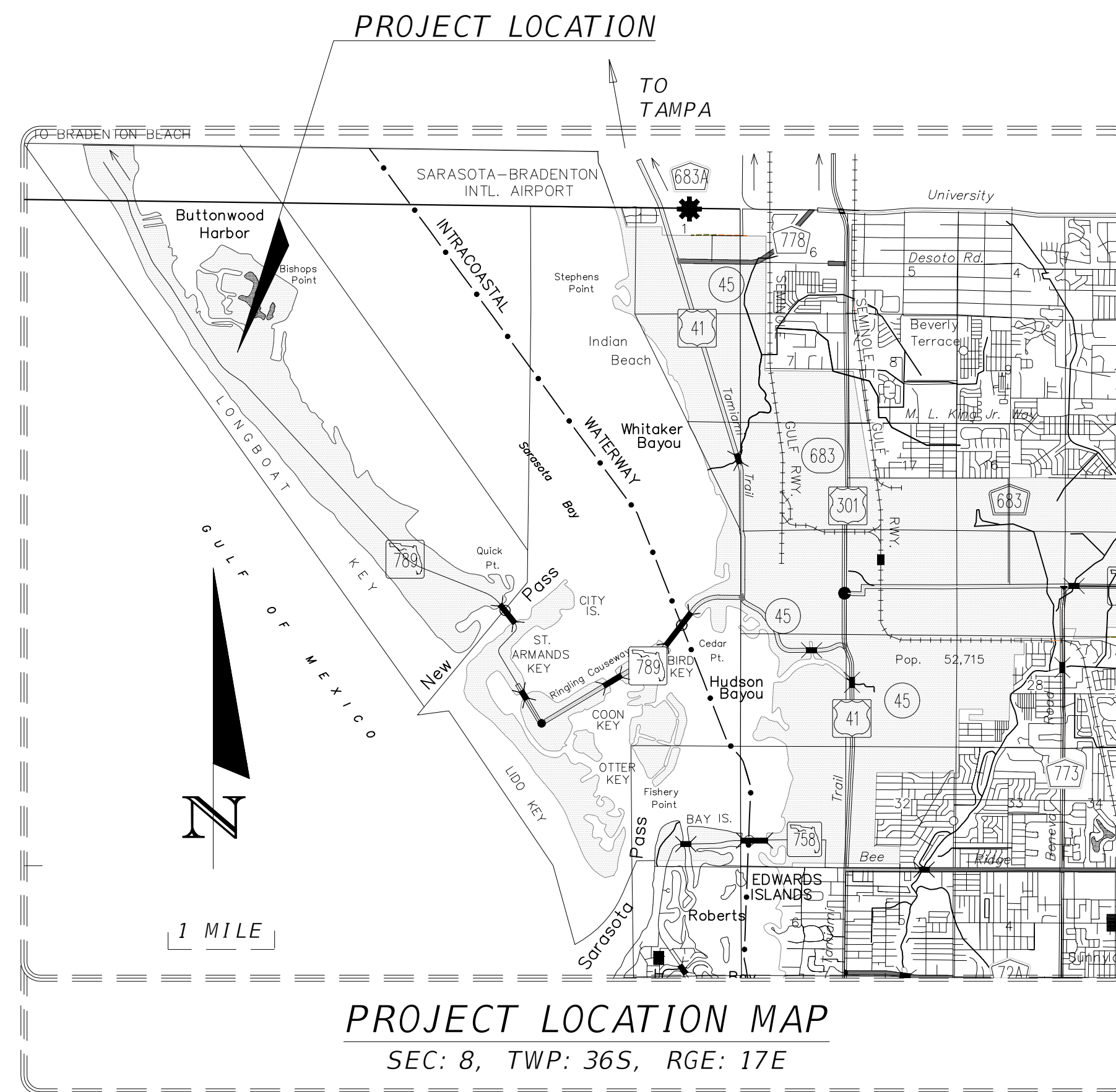
TOWN OF LONGBOAT KEY PUBLIC WORKS

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




INDEX OF DRAWINGS

SHEET 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
12	BEST MANAGEMENT PRACTICES DETAILS



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

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
 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>

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
T-0000	2021	K-1

GENERAL NOTES:

- 1. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY OF ANY AND ALL FIELD CONDITION(S) THAT WILL PREVENT THE CONSTRUCTION OF ANY ELEMENT OF THE PROPOSED PROJECT IN ACCORDANCE WITH THE DESIGN STANDARDS AND APPROVED CONSTRUCTION DOCUMENTS FOR THIS PROJECT. IN ALL INSTANCES THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO ANY INSTALLATION OF WORK. IF CONTRACTOR ELECTS TO INSTALL ANY WORK WHICH DEVIATES FROM THE APPROVED CONSTRUCTION DOCUMENTS WITHOUT PRIOR WRITTEN APPROVAL BY THE ENGINEER, THEN THE COST OF REMOVAL, REPAIR, REDESIGN AND/OR REPLACEMENT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR UNLESS SAID WORK IS ACCEPTED AS AN AS-BUILT DEVIATION BY THE TOWN OF LONGBOAT KEY (LBK) OR THE ENGINEER. IN NO CASE SHALL THE TOWN OF LBK OR ENGINEER BE RESPONSIBLE FOR THE COST OF REMOVAL, REPAIR, REDESIGN AND/OR REPLACEMENT OF ANY WORK THAT DEVIATES FROM THE DESIGN STANDARDS AND APPROVED CONSTRUCTION DOCUMENTS FOR THIS PROJECT.
- 2. 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.
- 3. 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.
- 5. ALL EARTHWORK AND COMPACTION SHALL BE INSPECTED BY THE ENGINEER OR DULY APPOINTED REPRESENTATIVE, PRIOR TO FILLING OR CONSTRUCTION.
- 6. 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.
- 7. THE CONTRACTOR SHALL PROVIDE CERTIFIED RECORD INFORMATION THAT MEET THE TOWN OF LBK PERMIT REQUIREMENTS TO THE ENGINEER.
- 8. 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.
- 9. 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 UNSTABILIZED 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.
- 18. 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 DIG.
- 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.
- 3. 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 SWEEPED AT LEAST 2 TIMES PER YEAR. HIGH PRESSURE JET HOISING TO KEEP THE PORES OPEN, SHOULD BE PERFORMED ONE (1) TIME PER YEAR.
- 5. 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 INFILTRMETER 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:

- 1. 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. [THE 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.

ABBREVIATIONS:

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

@	=	AT	M-EX	=	MATCH EXISTING
ASOP	=	AS SHOWN ON PLANS	MH	=	MANHOLE
ASTM	=	AMERICAN STD TESTING AND MATERIAL	MIN	=	MINIMUM
BFP	=	BACK FLOW PREVENTION DEVICE	N	=	NORTH
BOSI	=	BACK OF SIDEWALK INLET	No	=	NUMBER
CA	=	CERTIFICATION	NWL	=	NORMAL WATER LINE
CL	=	CENTERLINE	NTS	=	NOT TO SCALE
CO	=	CLEANOUT	O/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
DBI	=	DITCH BOTTOM INLET	R	=	RADIUS
DEPT	=	DEPARTMENT	RCP	=	REINFORCED CONCRETE PIPE
DHWL	=	DESIGN HIGH WATER LINE	REQ'D	=	REQUIRED
DIA	=	DIAMETER	R/W	=	RIGHT OF WAY
DR	=	DESIGN RATIO	S	=	SOUTH
E	=	EAST	SCB	=	SIGNAL CONTROL BOX
EA	=	EACH	SDR	=	SIZE DESIGN RATIO
ERIK	=	EMBEDDED RING INFILTRATION KIT	SF	=	SILT FENCE
ESM'T	=	EASEMENT	SHLDR	=	SHOULDER
EL	=	ELEVATION	SHWT	=	SEASONAL HIGH WATER TABLE
FF	=	FINISHED FLOOR	SR	=	STATE ROUTE
FDC	=	FIRE DEPARTMENT CONNECTION	STD	=	STANDARD
FDOT	=	FLORIDA DEPARTMENT OF TRANS	SQ YD	=	SQUARE YARD
FL	=	FLOW LINE	S/W	=	SIDEWALK
FLA	=	FLORIDA	TEMP	=	TEMPORARY
FS	=	FIRE SERVICE	TCB	=	TRAFFIC CONTROL BOX
FT	=	FOOT/FEET	TK	=	THICK
FW	=	FIRE MAIN	TRANS	=	TRANSPORTATION
GA	=	GAUGE	TRNS	=	TRANSITION
GB	=	GRADE BREAK	TRVL	=	TRAVEL
HORIZ	=	HORIZONTAL	TW	=	TAIL WATER
HP	=	HIGH POINT	TYP	=	TYPICAL
IN	=	INCHES	UNK	=	UNKNOWN
INSTAL	=	INSTALLATION	W	=	WEST
INV	=	INVERT	W/	=	WITH
LB	=	LAND SURVEYING BUSINESS	WM	=	WATER MAIN
LIC	=	LICENSE	WWF	=	WELDED WIRE FABRIC
LF	=	LINEAR FOOT	VAR	=	VARIES
M	=	METER	VERT	=	VERTICAL
MAX	=	MAXIMUM			
MES	=	MITERED END SECTION			

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SCALE:
NOTED @ 22"x34"

DESIGNED BY:
J. PARI

DRAWN BY:
R. STEELE

CHECKED BY:
J. PARI

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.
EOR: P.E. No. 56368
CA No: 3943



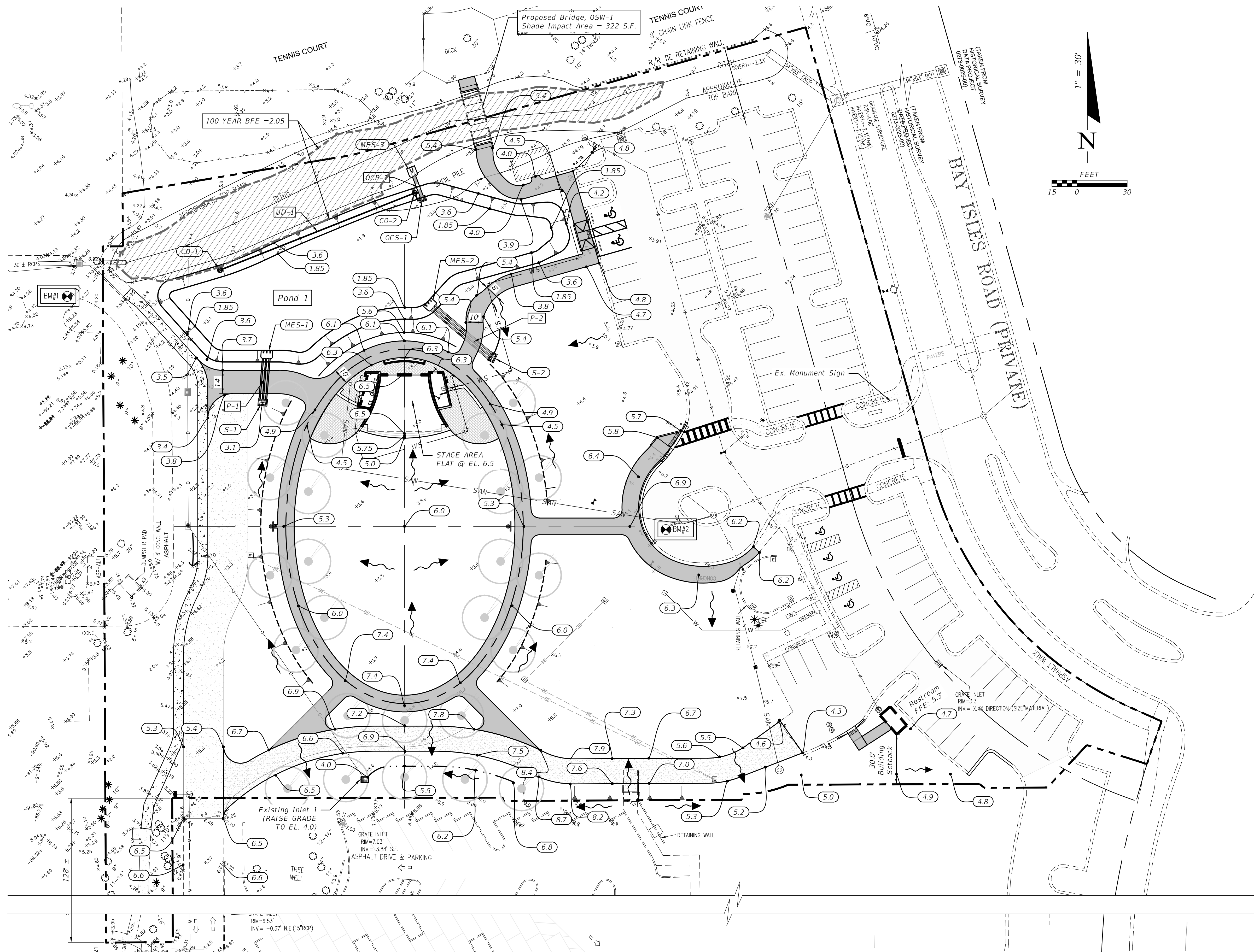
TOWN OF LONGBOAT KEY
PUBLIC WORKS
 600 GENERAL HARRIS STREET
 LONGBOAT KEY, FL 34228
 (941) 316-1988

TOWN CENTER IMPROVEMENTS - OUTDOOR VENUE

**GENERAL NOTES
AND ABBREVIATIONS**

12/12/2022 6:44:31 AM

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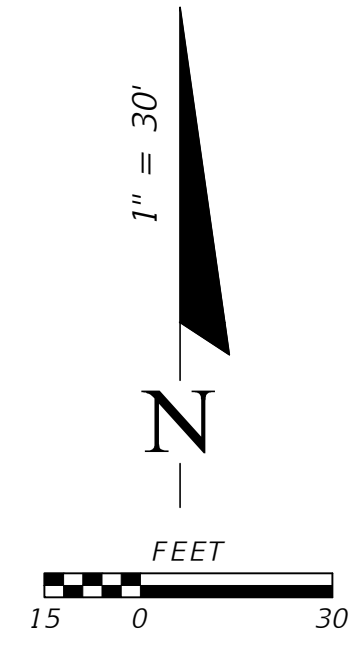


NOTES:

BASE FLOOD ELEVATION (BFE) = 10.00
PER FEMA MAP 12115C0126F
ENTIRE SITE FLOODED (HURRICANE SURGE)

ALL ELECTRICAL & PLUMBING TO BE INSTALLED
AT OR ABOVE 10.00.

- BM#1
SITE BENCH MARK
NAIL & DISK SET
L.B. #021
(ELEV.=4.31' NAVD88)
- BM#2
SITE BENCH MARK
NAIL & DISK FOUND
L.B. #021
(ELEV.=6.43' NAVD88)



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DMK
ASSOCIATES
ENGINEERS & SURVEYORS

TOWN OF LONGBOAT KEY
PUBLIC WORKS
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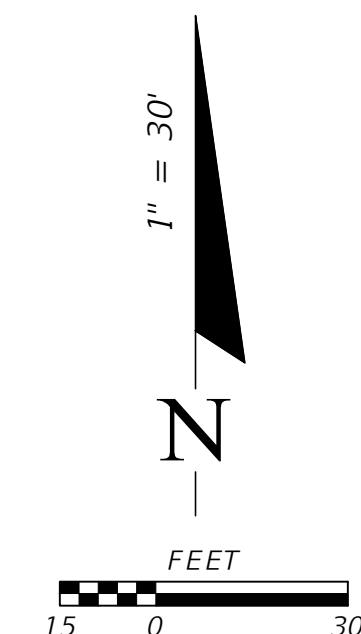
TOWN CENTER IMPROVEMENTS - OUTDOOR VENUE
SITE PLAN EXHIBIT

SHEET
NO.
2

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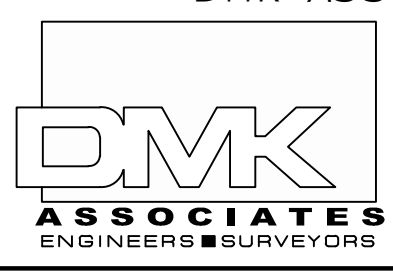


Proposed Improvements			
MARK	Description	Unit	Approx. Quant.
1	Proposed Stage Pad / Enclosure	L.S.	1
2	Proposed Great Lawn - 17,100 S.F.	S.Y.	1,900
3	Proposed Multi-Purpose Shell Esplanade - 15' Wide	S.Y.	616
4	Proposed Pedestrian Walkway - 10' Wide - 8,876 S.F.	S.Y.	987
4a	Proposed Pedestrian Walkway - 8' Wide - 1,519 S.F.	S.Y.	169
4b	Proposed Hardscaping - 1,827 S.F. - See Landscape Plan	S.Y.	203
4c	Proposed Heavy Duty Pedestrian Walkway - 10' Wide - 485 S.F.	S.Y.	54
4d	Proposed Heavy Duty Pedestrian Walkway - 14' Wide - 1,020 S.F.	S.Y.	113
4e	Proposed Concrete Curb Ramp - 6' Wide (Alternate Bid 3)	S.Y.	7
5	Proposed Pedestrian Light Poles (Not Shown)	EA.	24
6	Proposed Canopy Trees Allee	EA.	24
7	Proposed Sod - 47,619 S.F.	S.Y.	5,291
8	Existing on Site Parking	EA.	94±
9	Proposed 12'x18" Disabled Access Parking Spaces	EA.	2
10	Future Building Site A	S.F.	11,200
11	Future Building Site B	S.F.	7,700
12	Proposed Restroom Facilities - 160 S.F. (Alternate Bid 3)	EA.	1
13	Proposed Storm Water Pond	S.F.	14,792
14	Proposed Bridge (Alternate Bid 2)	S.Y.	39
15	Future 1/10 of a Mile Marker Sign	EA.	2
16	Proposed Cross Walk	EA.	1



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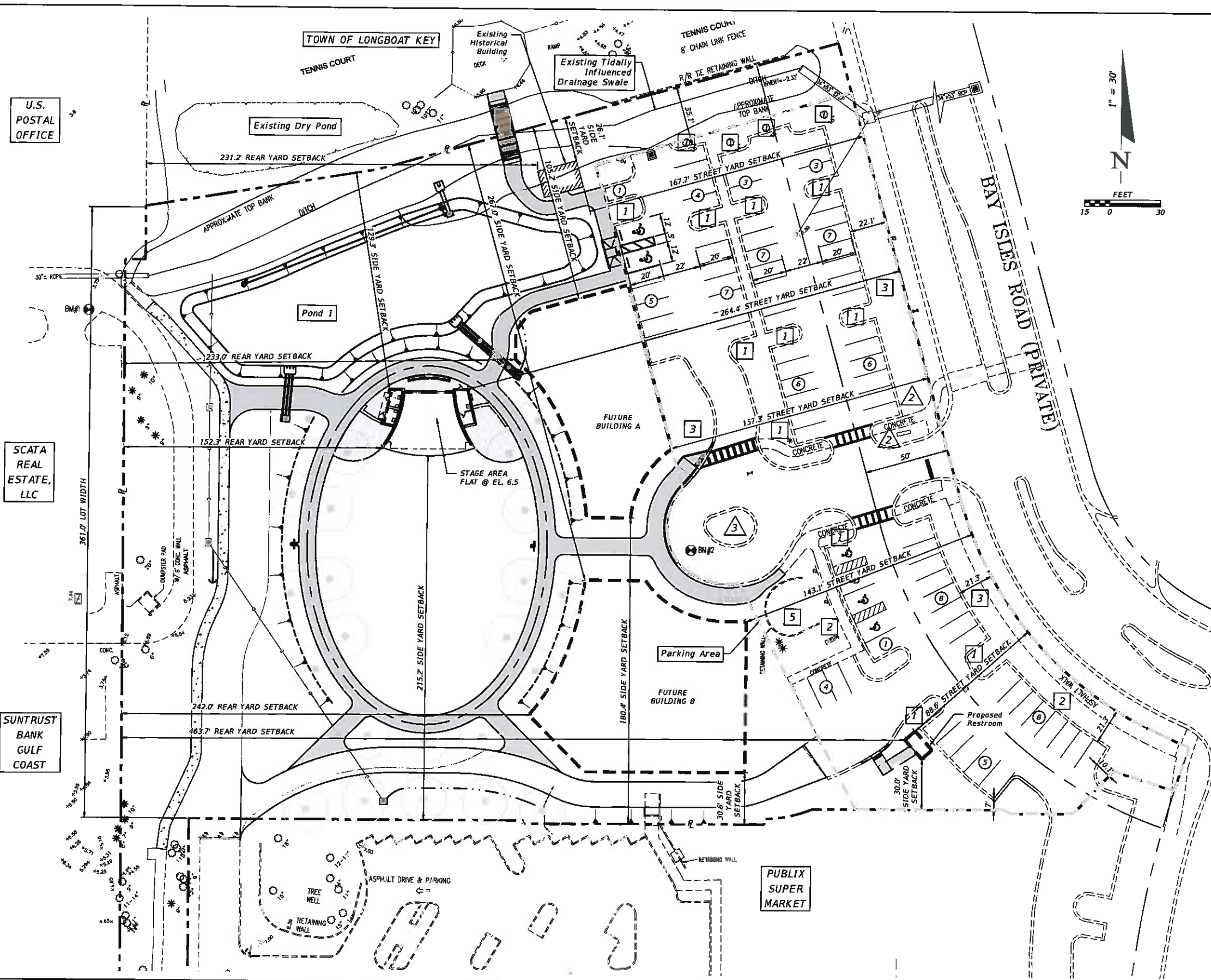
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TOWN CENTER IMPROVEMENTS - OUTDOOR VENUE
AERIAL PHOTO AND MASTER SITE PLAN

SHEET NO.
 2

11/29/2022 10:39:21 AM
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LOT SITE CALCULATION TABLE	
PROVIDED:	
BUILDING COVERAGE	= 1,810 S.F.
LOT AREA	= 209,490 S.F.
LOT WIDTH	= 361 FT
BUILDING HEIGHT	= 21'-1"
MUC-1 ZONING REQUIREMENTS:	
MINIMUM LOT AREA	= 30,000 S.F.
MINIMUM LOT WIDTH	= 150 FT
MINIMUM LOT DEPTH	= 150 FT
MINIMUM STREET SIDE SETBACK	= 50 FT
MINIMUM SIDE YARD SETBACK	= 30 FT (80 FT TOTAL)
MINIMUM REAR YARD SETBACK	= 30 FT
MAXIMUM BUILDING HEIGHT	= 50' (65' w/PUD)
MAXIMUM NON-OPEN SPACE	= 50%

LOT COVERAGE	
PROPOSED STAGE	= 1,850 S.F.
PROPOSED PEDESTRIAN WALKWAY	= 11,900 S.F.
PROPOSED CONCRETE CURB RAMP	= 63 S.F.
PROPOSED HARDSCAPE	= 2,109 S.F.
PROPOSED SHELL ESPLANADE	= 5,544 S.F.
PROPOSED RESTROOM	= 120 S.F.
PROPOSED ADA ACCESS PARKING	= 432 S.F.
EXISTING PEDESTRIAN WALKWAY	= 4,776 S.F.
EXISTING PARKING & DRIVEWAY	= 43,548 S.F.
EXISTING SHELL DRIVEWAY	= 4,351 S.F.
EXISTING HISTORICAL BUILDING	= 384 S.F.
FUTURE BUILDING A	= 11,200 S.F.
FUTURE BUILDING B	= 7,700 S.F.
FUTURE BRIDGE	= 300 S.F.
TOTAL	= 94,357 S.F.
REQUIRED 50% MAX NON-OPEN SPACE	
PROVIDED NON-OPEN SPACE: $94,357 \text{ S.F.} \div 209,490 \text{ S.F.} = 45.04\% < 50\%$	

- ▲ MINUS PROPOSED ADA ACCESS PARKING
 - INCLUDES CURB & GUTTER
- | | |
|----------------------------------|-------------|
| PROPOSED DISABLED ACCESS PARKING | = 2 |
| EXISTING PARKING | = 75 |
| EXISTING DISABLED ACCESS PARKING | = 4 |
| TOTAL SPACES | = 81 |
- BASE FLOOD ELEVATION (BFE)
 BFE - HURRICANE SURGE = 10.0 (NAVD 88)
 BFE - EXISTING TIDALLY INFLUENCED SWALE = 2.05 (NAVD 88)
- TOWN CODE SECTION 158.100 (I)**
 3a. SETBACK AREA: $\pm 45' \times 50' = 22,750 \text{ S.F.}$
 MAX. 70%: $\pm 15,925 \text{ S.F.}$
 PARKING: $\pm 12,500 \text{ S.F.}$
 (445x30)-(ISLANDS)
- TOWN CODE SECTION 158.100 (J)**
 (1) PARKING AREA: $\pm 64,615 \text{ S.F.}$
 15%: $\pm 9,692 \text{ S.F.}$
 EXISTING LANDSCAPE AREA: $\pm 12,650 \text{ S.F.}$
 (2) PARKING SPACES (P.S.) TO MATURE TREES (M.T.)
 81 P.S. / 5 P.S. PER M.T. = 17 REQUIRED
 EXISTING TREES: 33 OAKS & 7 PALMS = 40 PROVIDED
 (3) LANDSCAPE ISLANDS: YES
 (4) MAX. 12-SPACES PER ROW: YES
 (5) PROTECTED FROM VEHICLES: YES, ALL CURBED
- ▲ = MATURE OAK
 □ = PALM

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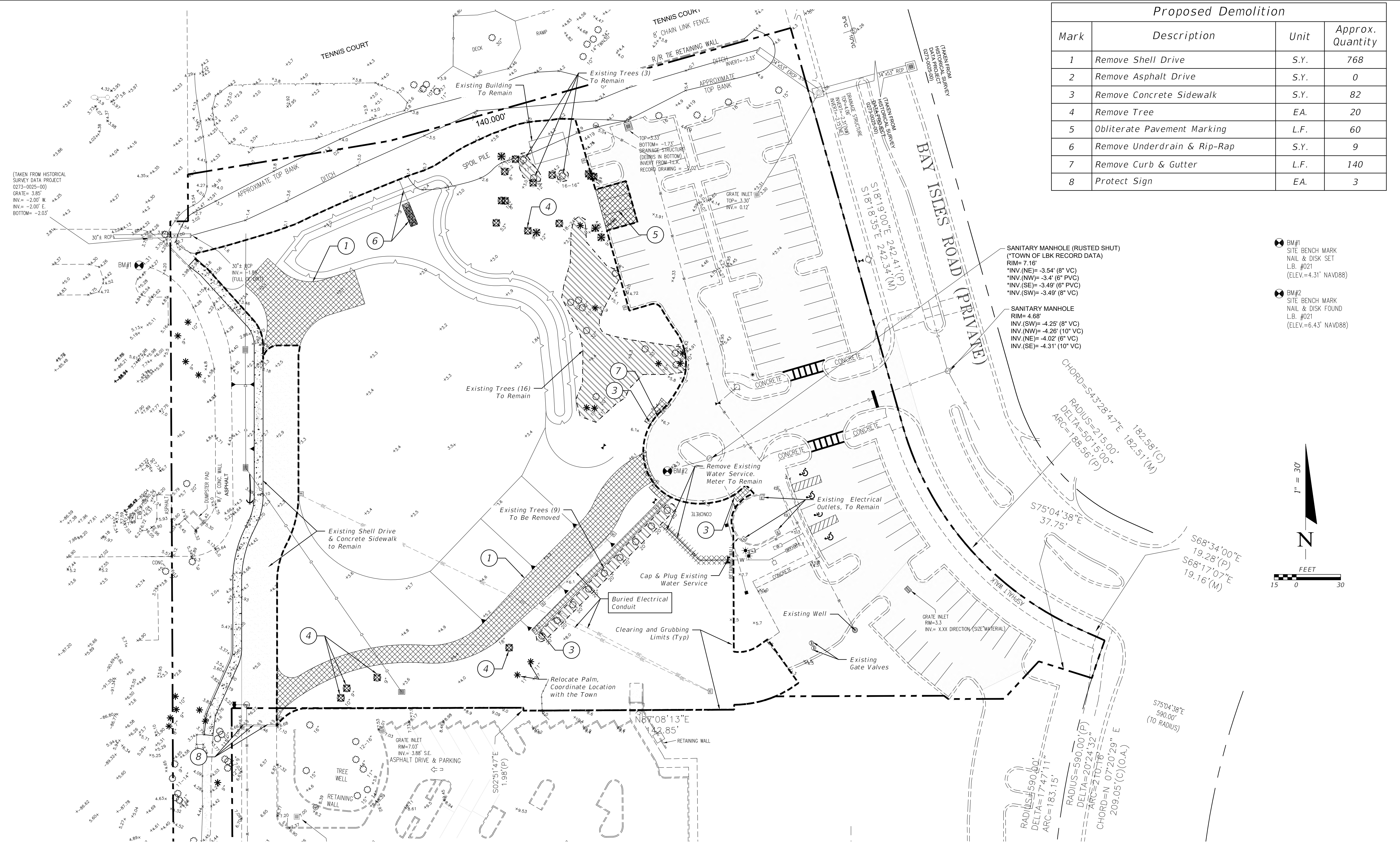
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TOWN CENTER IMPROVEMENTS - OUTDOOR VENUE
TOWN CODE SECTION 158.100 (I,J)
 VERIFICATION - EXHIBIT A

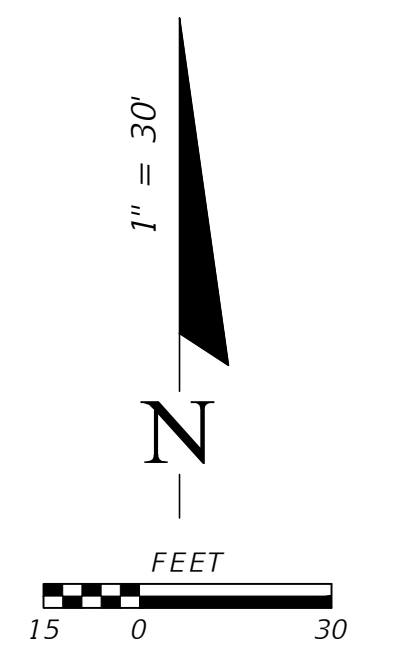
SHEET NO.
 1A

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Proposed Demolition			
Mark	Description	Unit	Approx. Quantity
1	Remove Shell Drive	S.Y.	768
2	Remove Asphalt Drive	S.Y.	0
3	Remove Concrete Sidewalk	S.Y.	82
4	Remove Tree	EA.	20
5	Obliterate Pavement Marking	L.F.	60
6	Remove Underdrain & Rip-Rap	S.Y.	9
7	Remove Curb & Gutter	L.F.	140
8	Protect Sign	EA.	3

- BM#1
SITE BENCH MARK
NAIL & DISK SET
L.B. #021
(ELEV.=4.31' NAVD88)
- BM#2
SITE BENCH MARK
NAIL & DISK FOUND
L.B. #021
(ELEV.=6.43' NAVD88)



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TOWN CENTER IMPROVEMENTS - OUTDOOR VENUE
EXISTING CONDITION AND DEMOLITION PLAN

SHEET NO.
3

Pond 1:
 Dry Pond with Exfiltration
 Top of Bank Elevation: 3.60
 Top of Bank Area: 0.330 Ac
 Pond Bottom Elevation: 1.85
 Pond Bottom Area: 0.241 Ac
 25 Yr DHWL Elevation: 3.10

Proposed 80± S.F. of 10' Wide Pervious Rubberway Path or Pervious Concrete Per Detail on Sheet 7

Proposed 250± S.F. of 10' Wide Pervious Rubberway Path or Pervious Concrete N. & S. OF Future Bridge Per Detail on Sheet 7

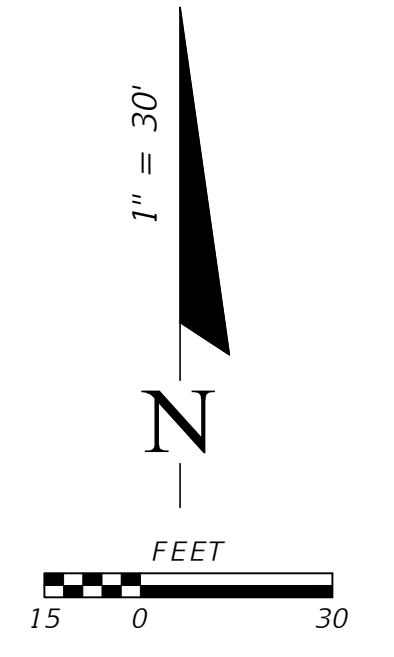
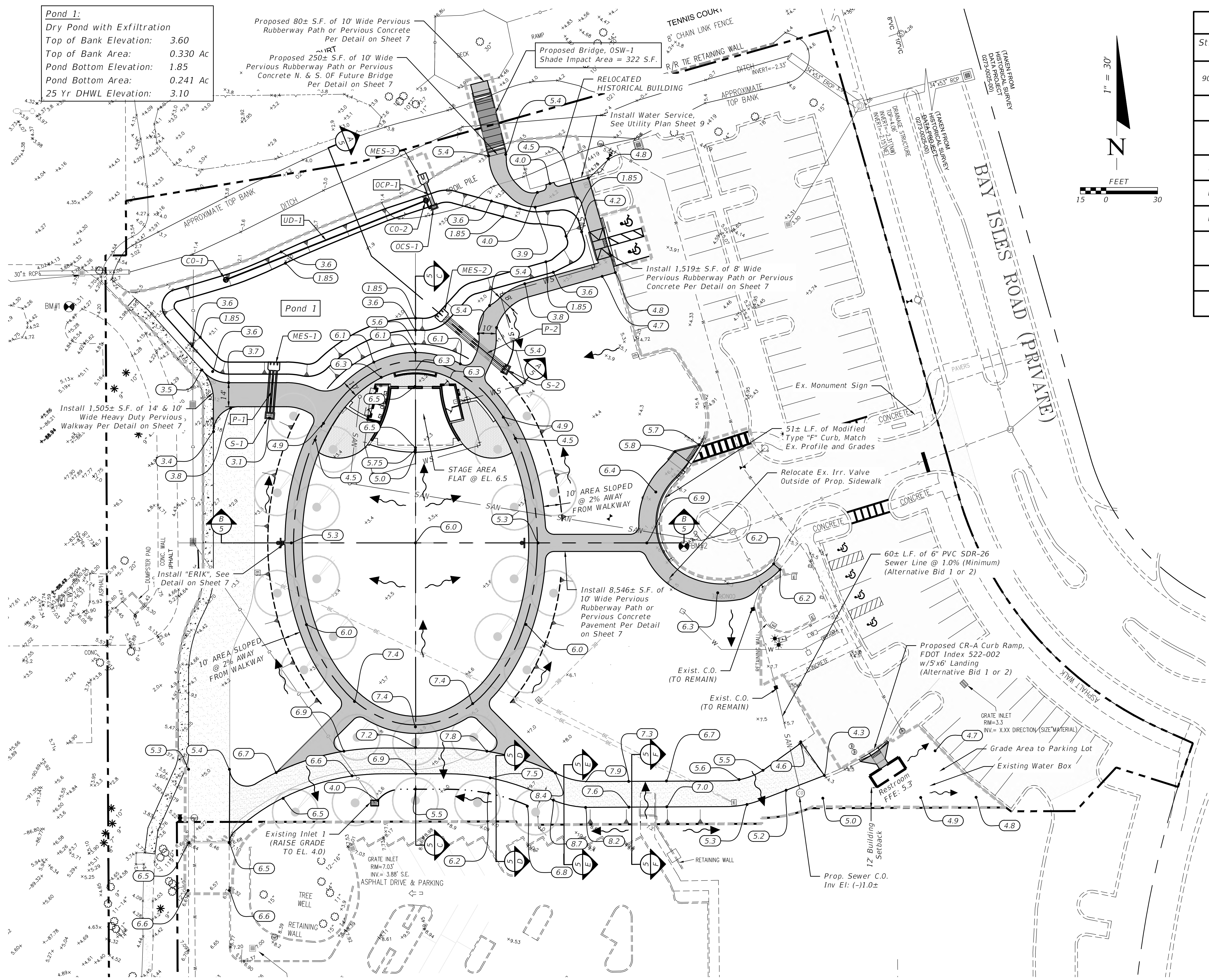
Proposed Bridge, OSW-1
 Shade Impact Area = 322 S.F.

Install 1,519± S.F. of 8' Wide Pervious Rubberway Path or Pervious Concrete Per Detail on Sheet 7

Install 8,546± S.F. of 10' Wide Pervious Rubberway Path or Pervious Concrete Pavement Per Detail on Sheet 7

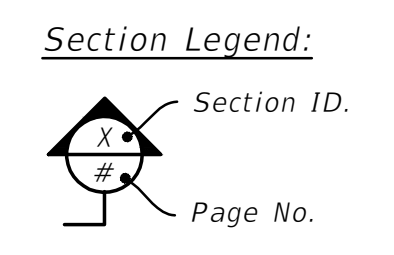
Install 1,505± S.F. of 14' & 10' Wide Heavy Duty Pervious Walkway Per Detail on Sheet 7

Install "ERIK", See Detail on Sheet 7



Structures Schedule				
Structure No.	Description	Rim/Grate & Invert Elevations	Northing	Easting
90° BEND	4"x90° PVC BEND	Rim El: 1.32 (N) INV = 0.95 (E) INV = 0.95	1103966.017	453511.992
CO-1	4" UNDER DRAIN CLEANOUT	Rim El: 2.45 (E) INV = 1.10	1103924.547	453393.589
CO-2	4" UNDER DRAIN CLEANOUT	Rim El: 2.35 (W) INV = 1.00 (S) INV = 1.00	1103970.726	453510.127
MES-1	CONCRETE MITERED END SECTION FOR (3) 8" ADS PIPES	INV = 1.80	1103873.310	453421.446
MES-2	CONCRETE MITERED END SECTION FOR (3) 8" ADS PIPES	INV = 1.80	1103903.260	453519.954
MES-3	12"x18" MITERED END SECTION FDOT INDEX 425-021	INV = 0.80	1103981.403	453509.367
OCS-1	OUTFALL CONTROL STRUCTURE FDOT TYPE "C" D.B.I. SEE DETAIL ON SHEET 6	Rim El: 3.60 (W) INV = 0.90 (N) INV = 0.90	1103967.107	453514.830
S-1	TYPE "E" DITCH BOTTOM INLET FDOT INDEX 425-052	Rim El: 3.09 (N) INV = 1.90	1103845.338	453419.142
S-2	TYPE "E" DITCH BOTTOM INLET FDOT INDEX 425-052	Rim El: 3.50 (NW) INV = 1.90	1103872.384	453556.508

Pipe Schedule						
Pipe Name	Length	Description	From Structure	Inv. EL.	To Structure	Inv. EL.
OCP-1	15	12"x18" ERCP	OCS-1	0.90	MES-3	0.80
P-1	28	(3) 8" ADS PIPES	S-1	1.90	MES-1	1.80
P-2	50	(3) 8" ADS PIPES	S-2	1.90	MES-2	1.80
UD-1	125	4" PERF. PVC UNDERDRAIN SEE DETAIL ON SHEET 6	CO-1	1.10	CO-2	1.00
UD-2	5	4" SOLID PVC	CO-2	1.00	90° BEND	0.95
UD-3	3	4" SOLID PVC	90° BEND	0.95	OCS-1	0.90



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 J. PARI

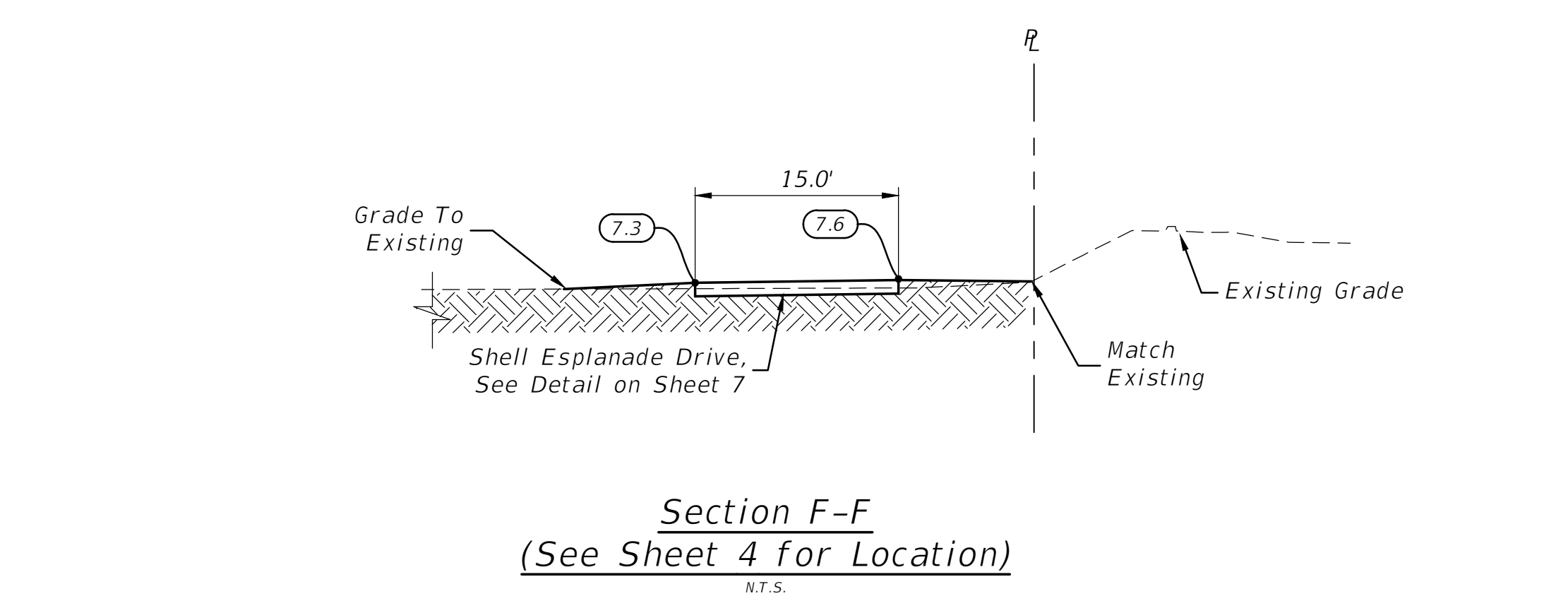
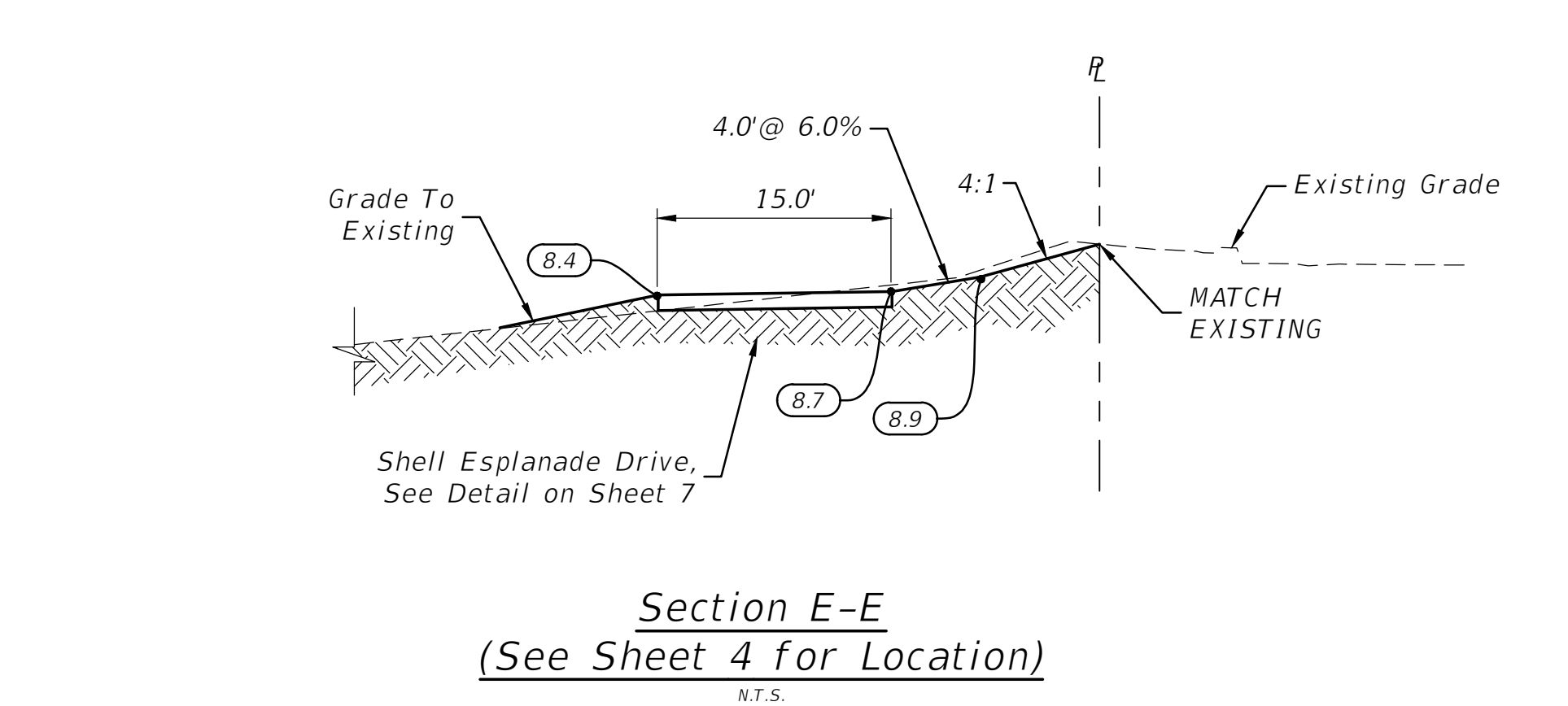
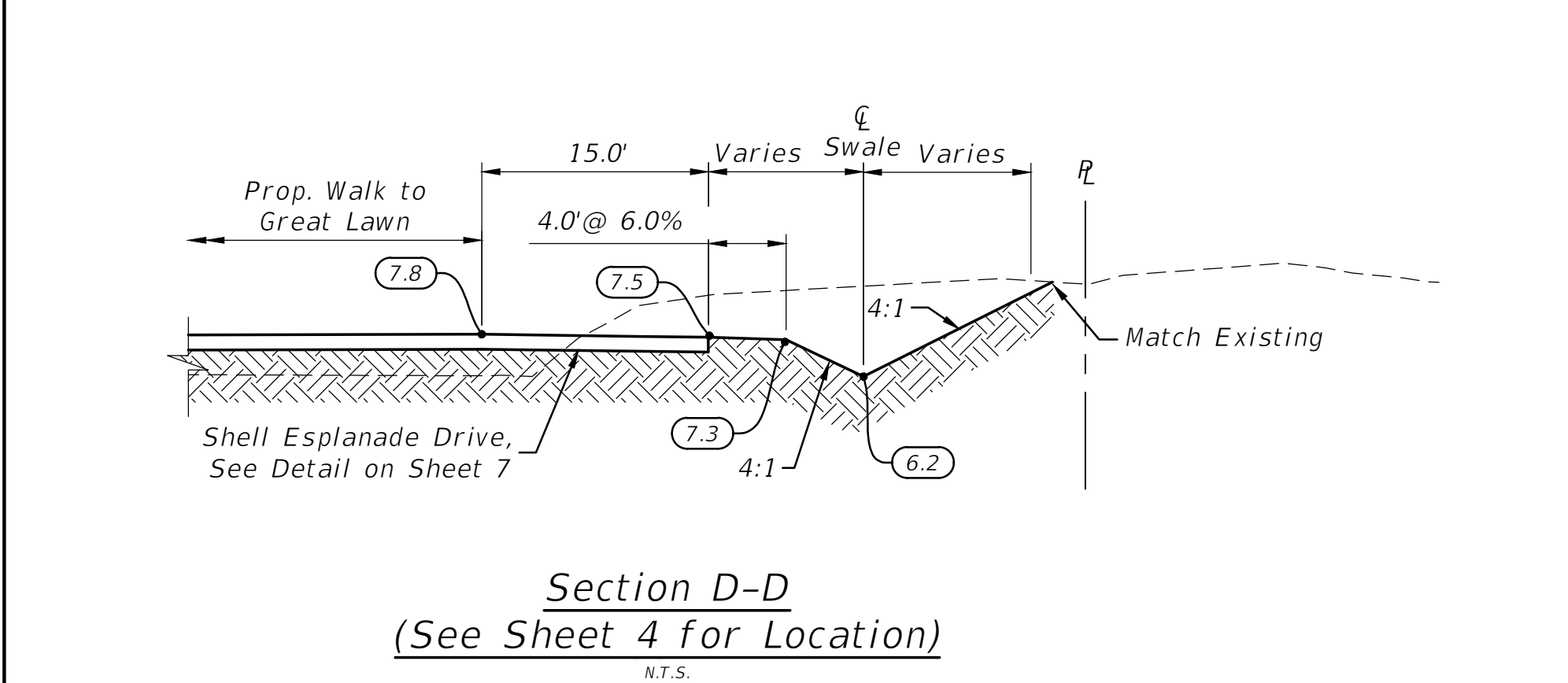
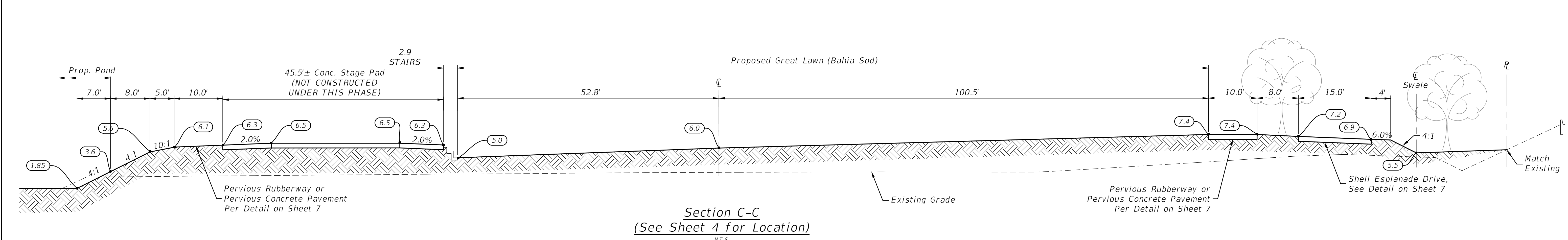
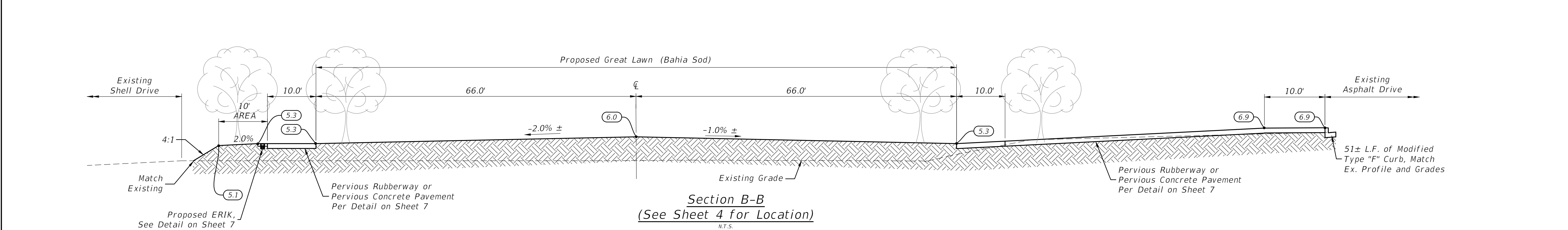
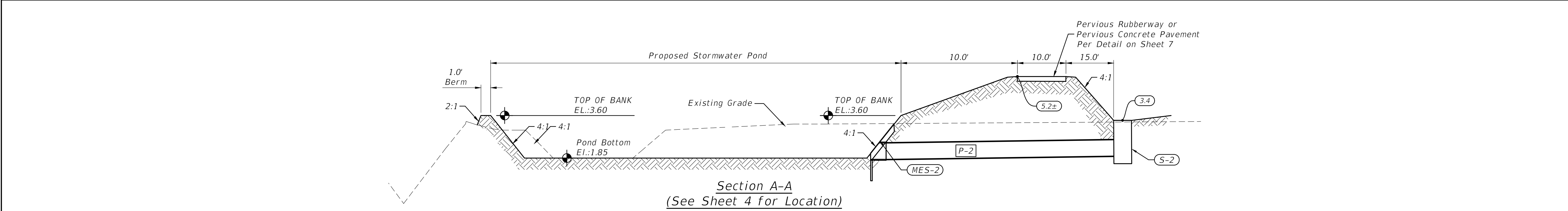
DMK ASSOCIATES, INC.
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 FAX: 941-412-1043
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 EOR: P.E. No. 56368
 CA No: 3943

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TOWN CENTER IMPROVEMENTS - OUTDOOR VENUE
GRADING AND DRAINAGE PLAN

SHEET NO.
 4

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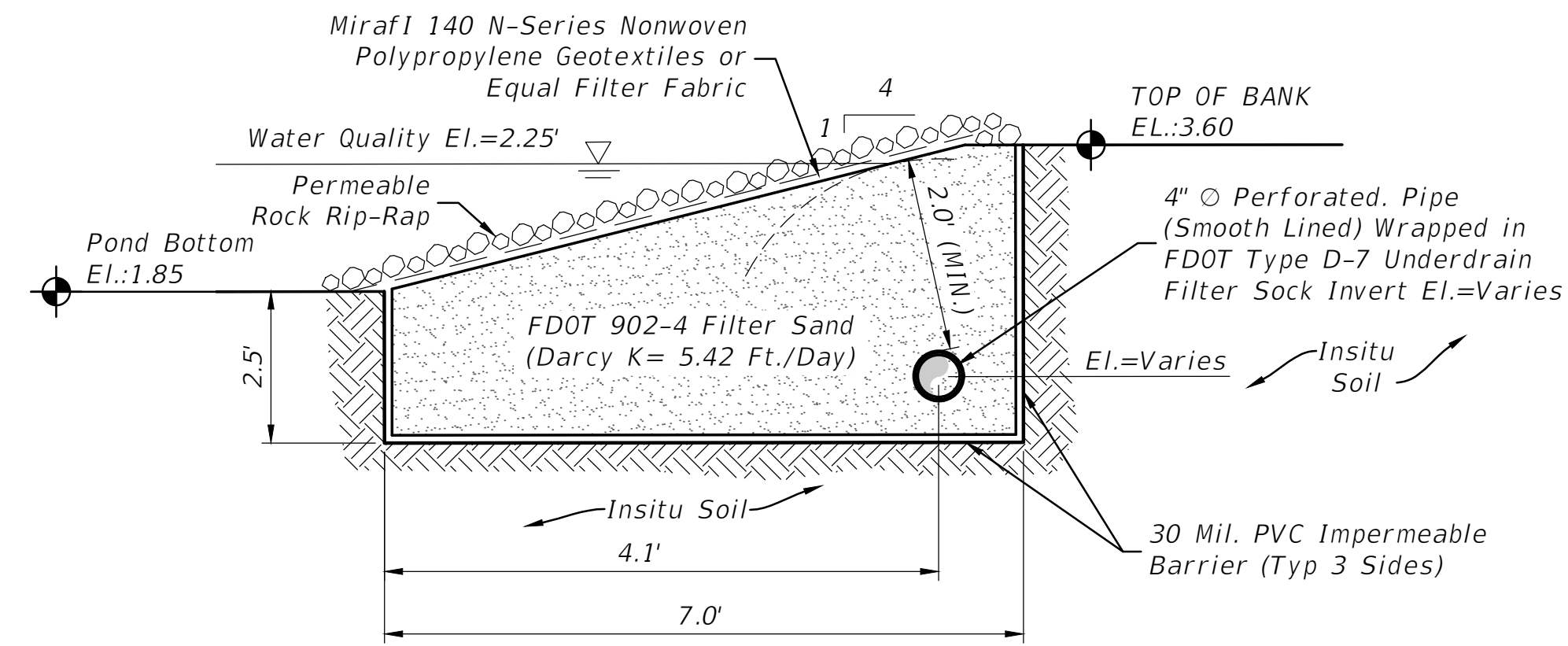
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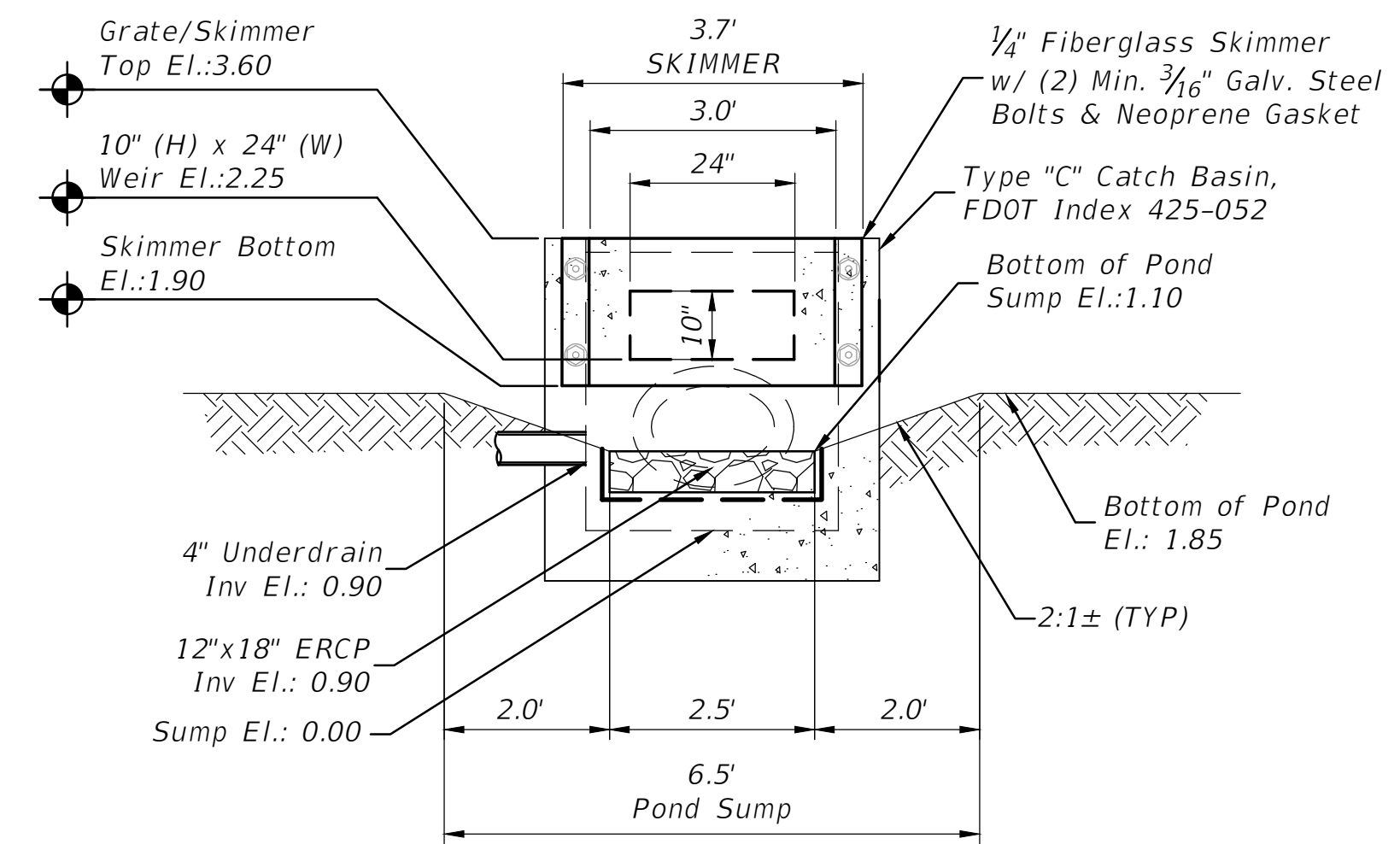
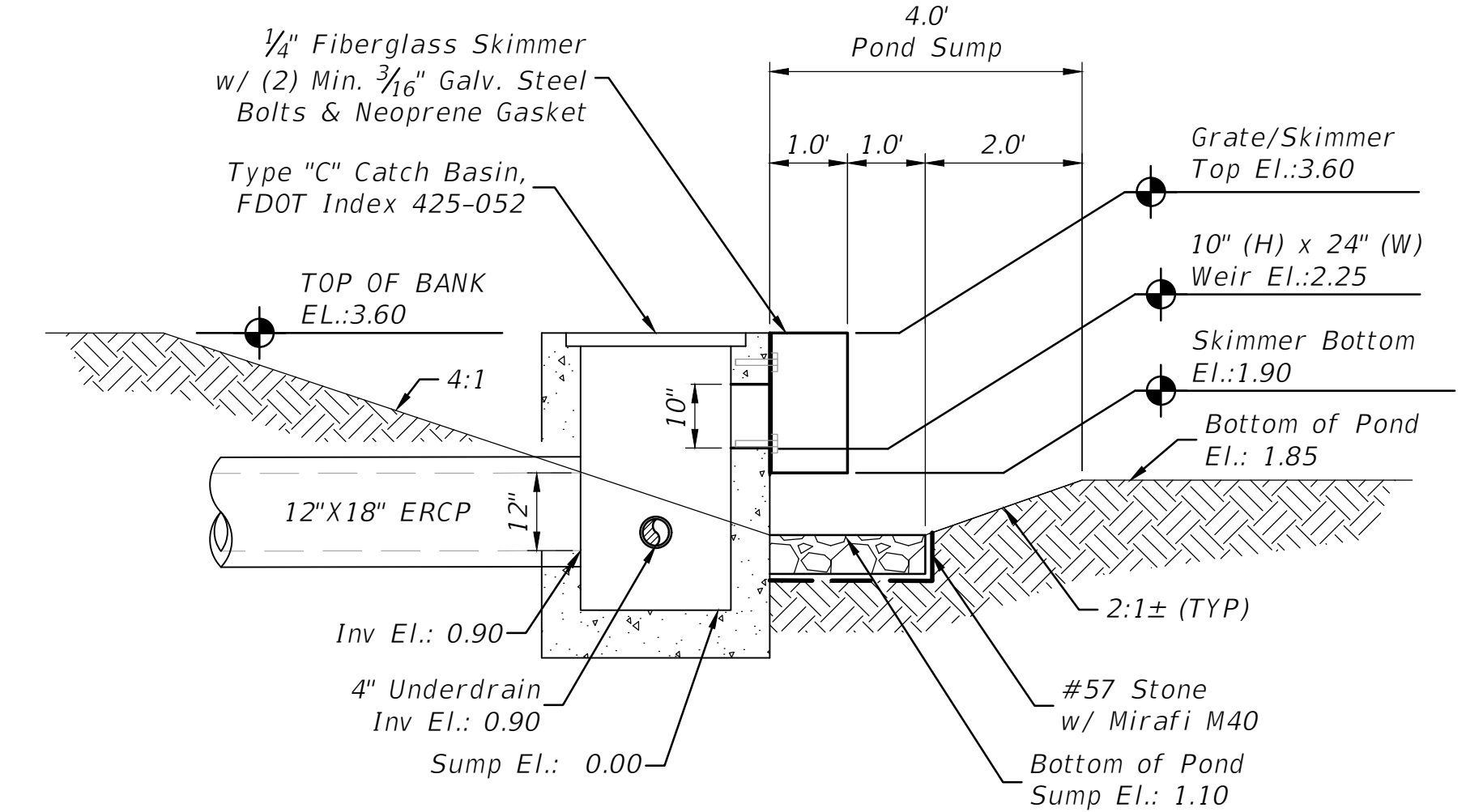
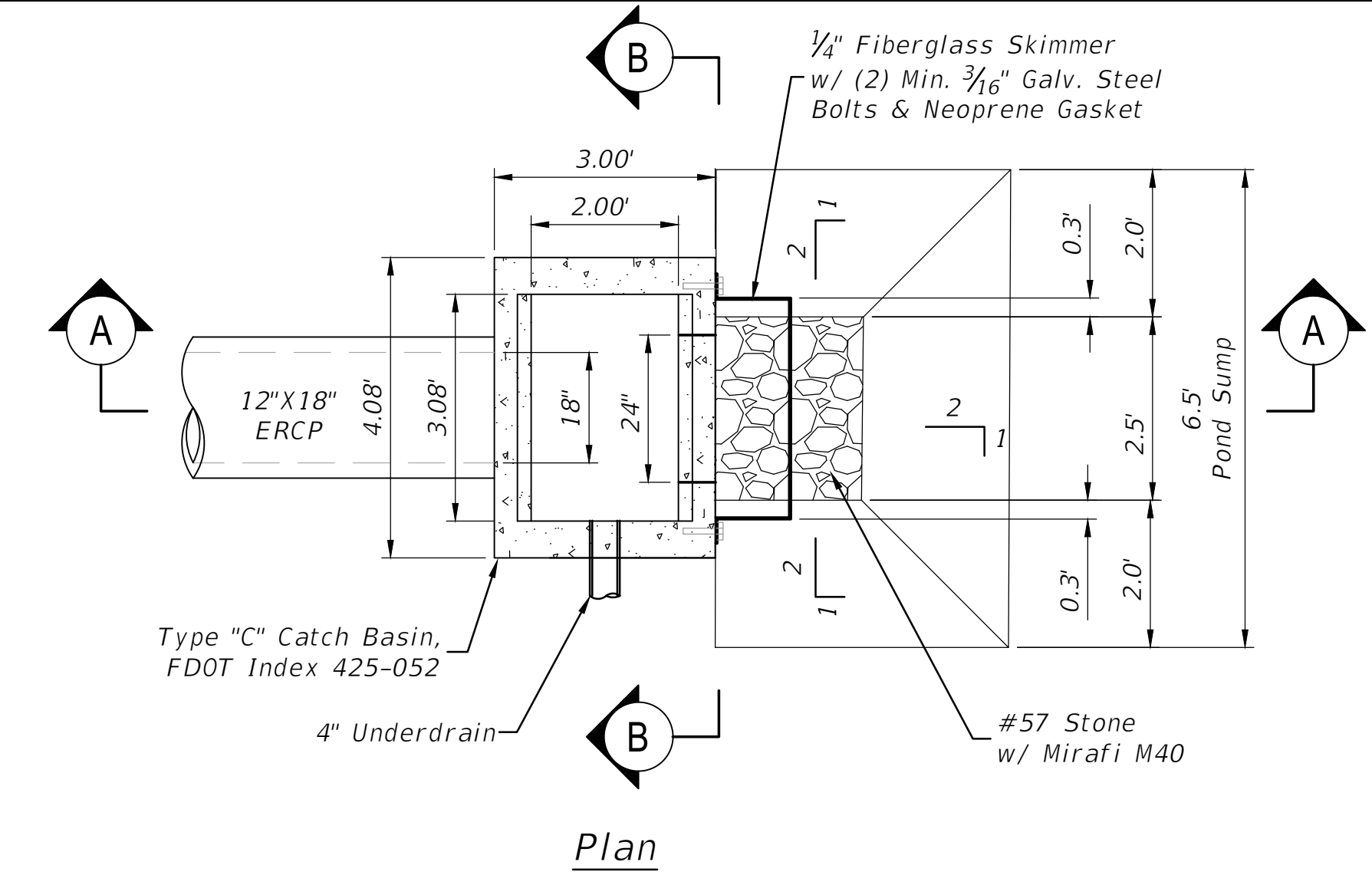
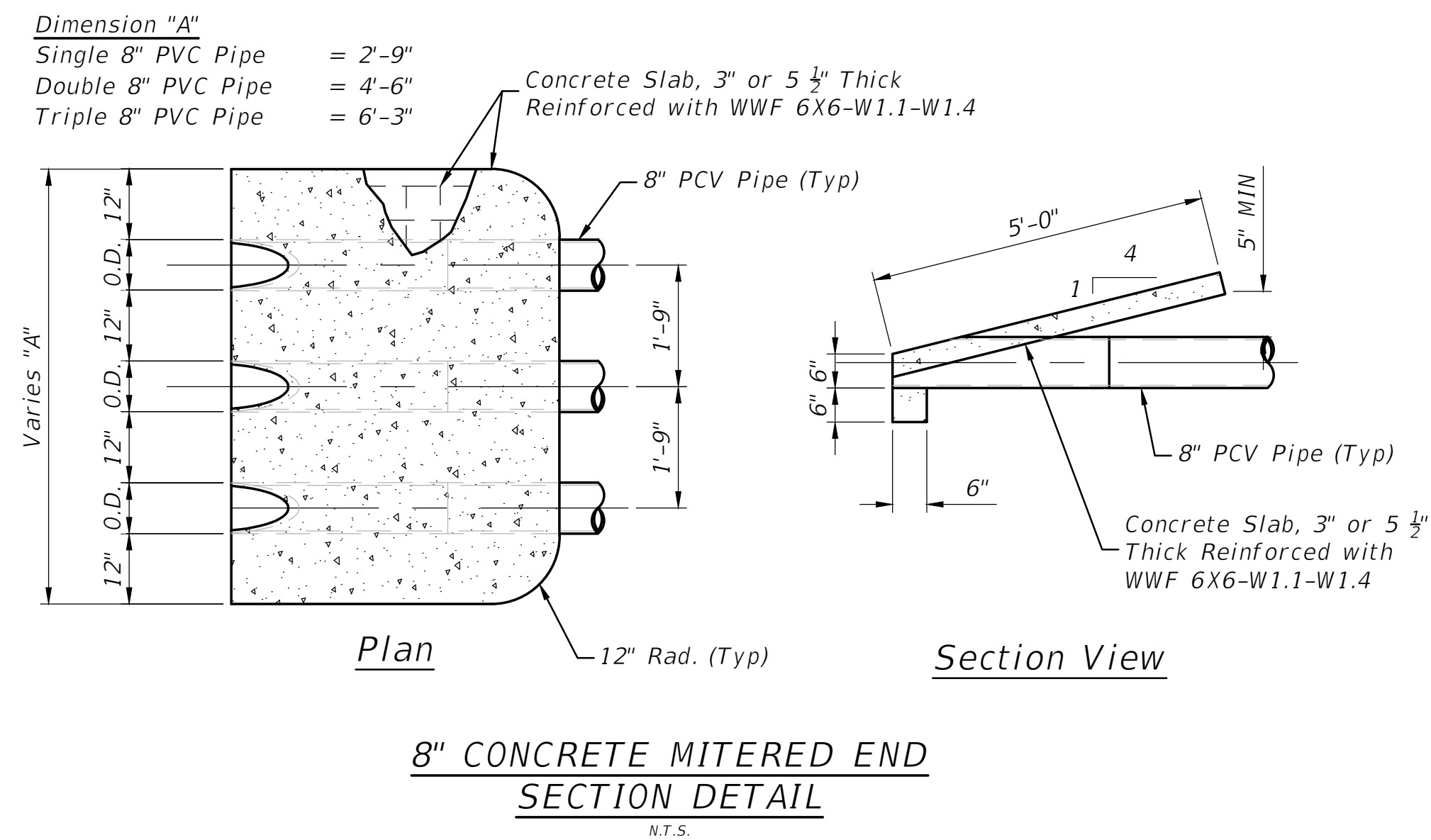
PROJECT CROSS SECTIONS

SHEET NO.
5



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



OCS-1 CONTROL STRUCTURE TYPE "C" DBI
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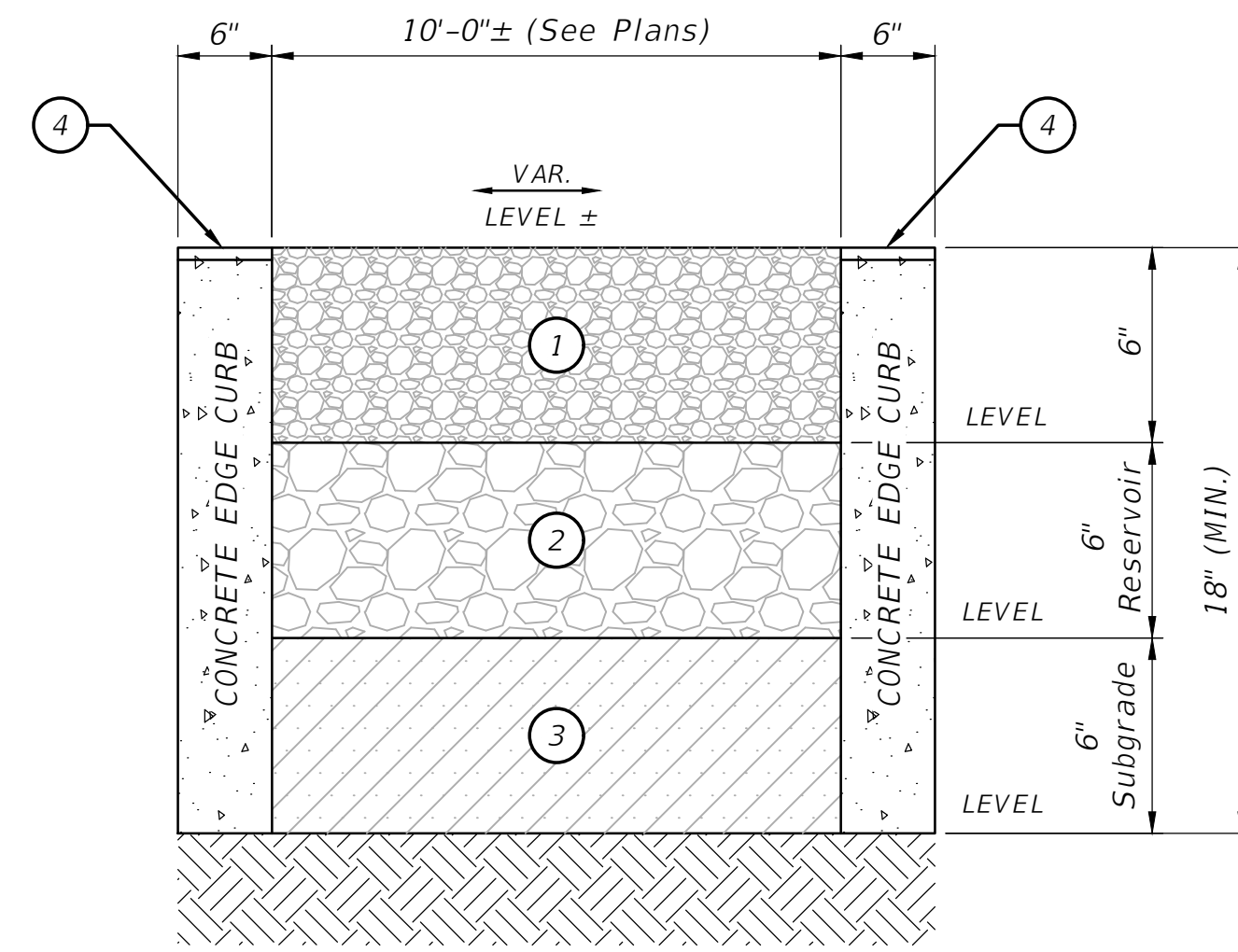
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TOWN CENTER IMPROVEMENTS - OUTDOOR VENUE

DRAINAGE DETAILS

SHEET NO.

6

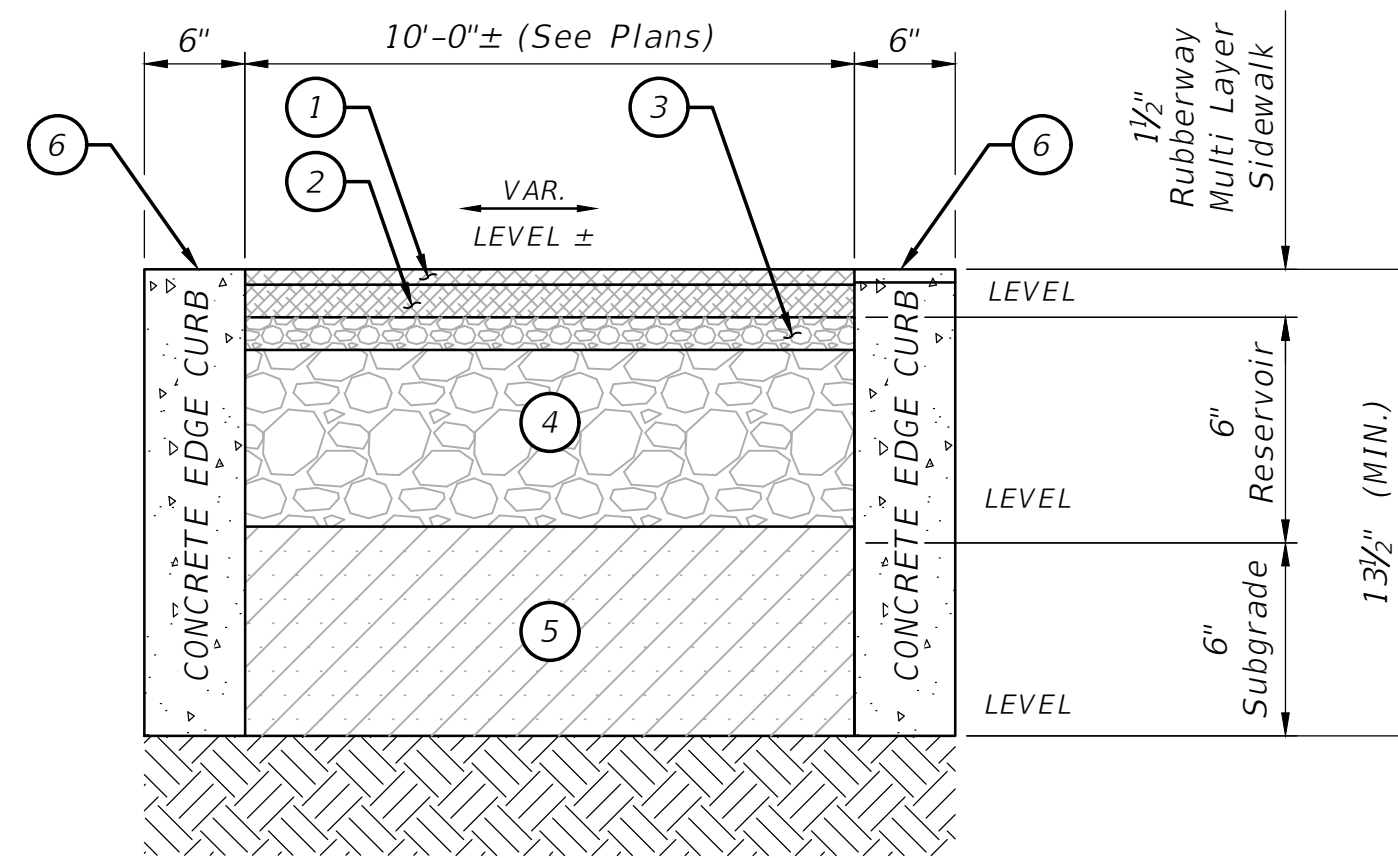


Section

- ① 6" Thick Pervious Concrete Pavement. See Note Below ▲
 - ② 6" #57 Stone
 - ③ 6" Subgrade, 92% Modified Proctor Density (ASTM D-1557)
 - ④ ½" Shell Broadcast & Floated into Surface of Concrete with Aggregate Sealer 888 (See Technical Specifications)
- ▲ = 8" Thick For Heavy Duty Pavement

NOTE:
 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.



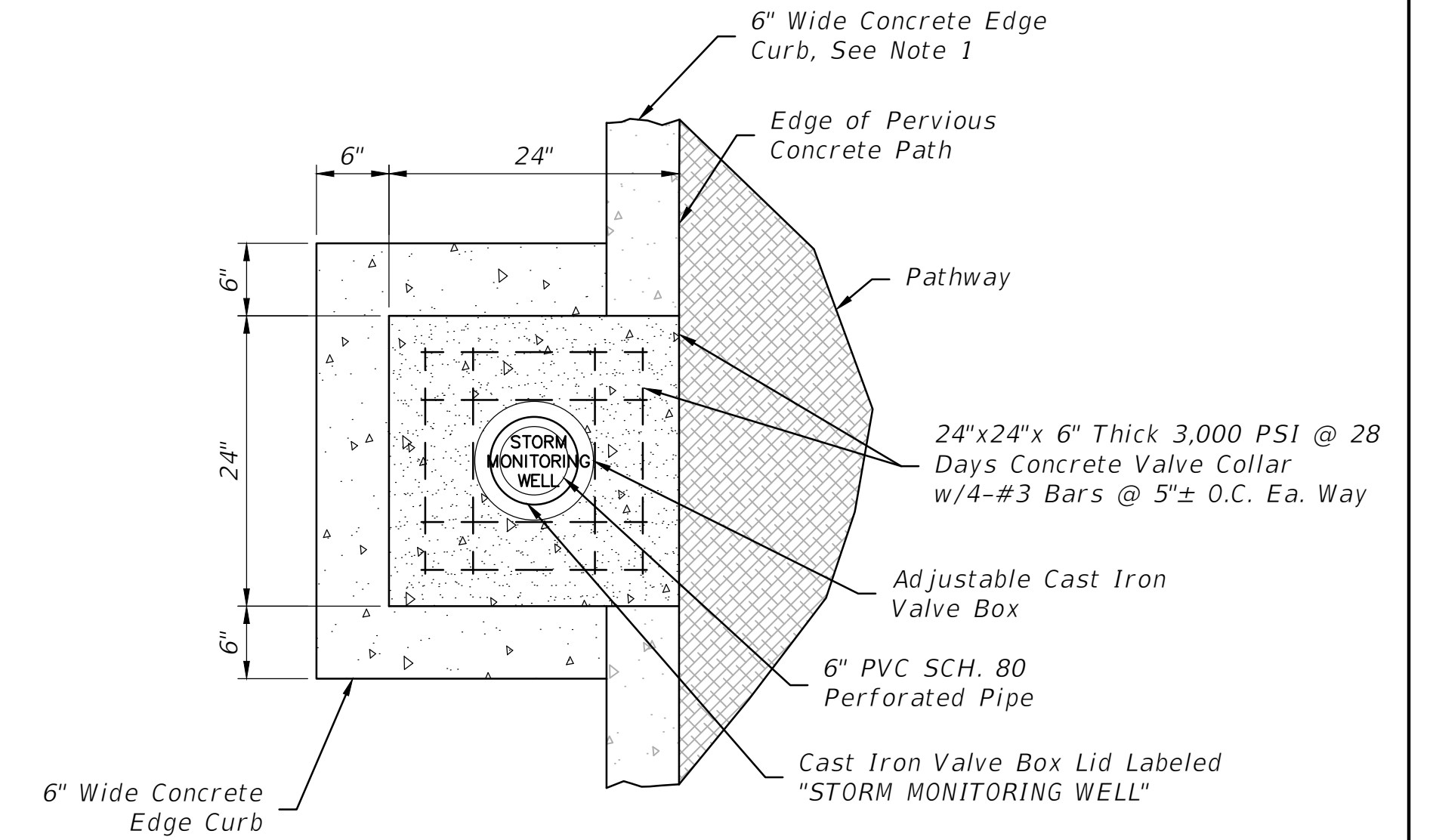
Section

- ① ½" Wear Layer, Synthetic Virgin Rubber ●
 - ② 1" Base Layer, Rubber & Rock ●
 - ③ 1" #8 Stone. See Note Below
 - ④ 5" #57 Stone. See Note Below ▲
 - ⑤ 6" Subgrade, 92% Modified Proctor Density (ASTM D-1557)
 - ⑥ ½" 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

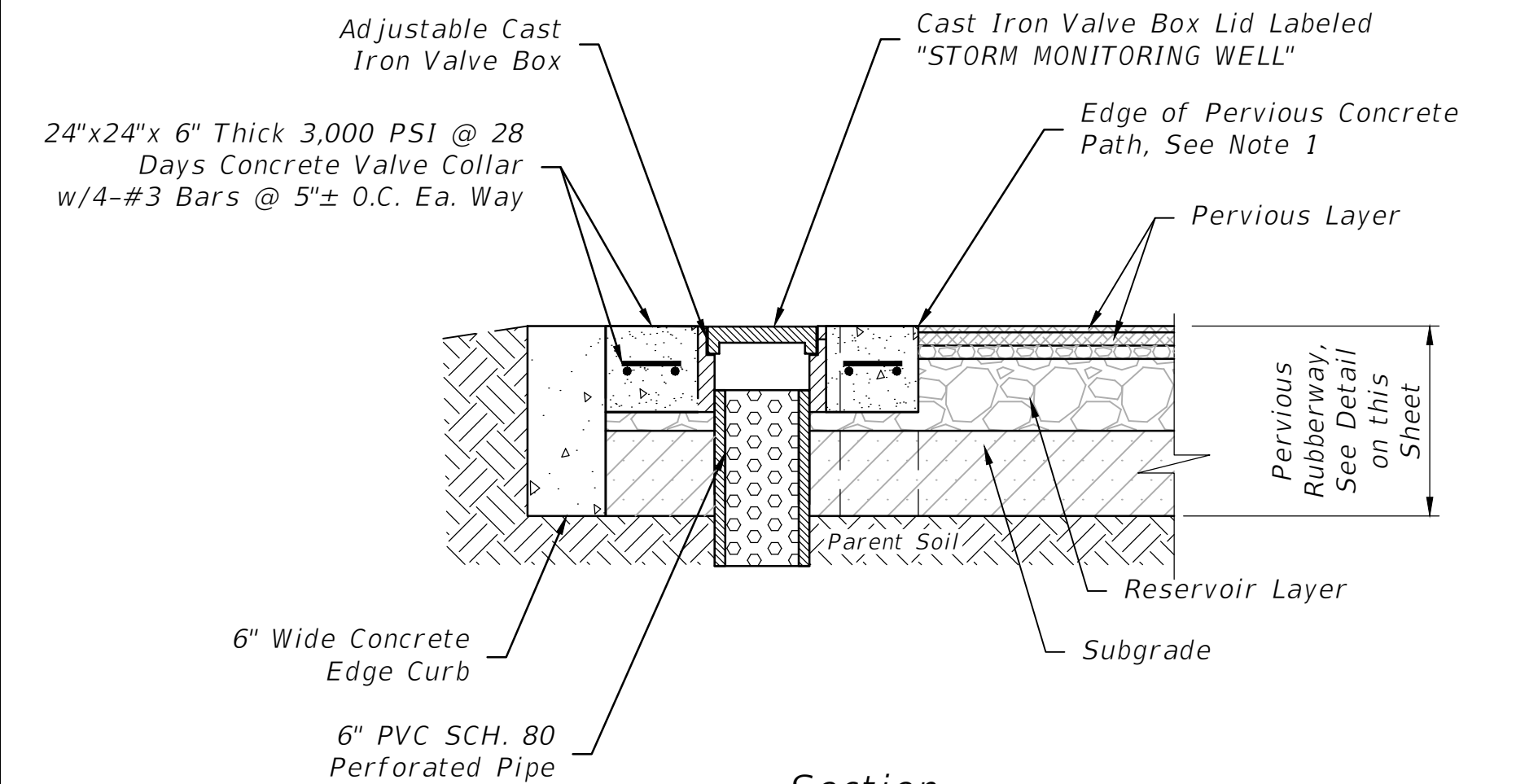
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 ASTM C131, MINIMUM CBR OF 80% PER ASTM D 1883.

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



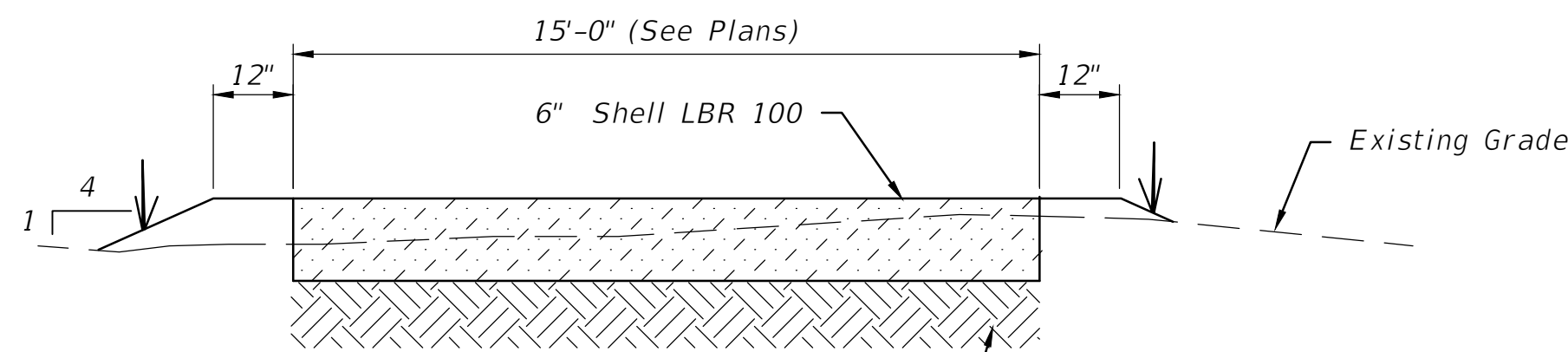
Plan



Section

Note 1
 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.

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



Section

SHELL ESPLANADE DRIVE DETAIL
 N.T.S.

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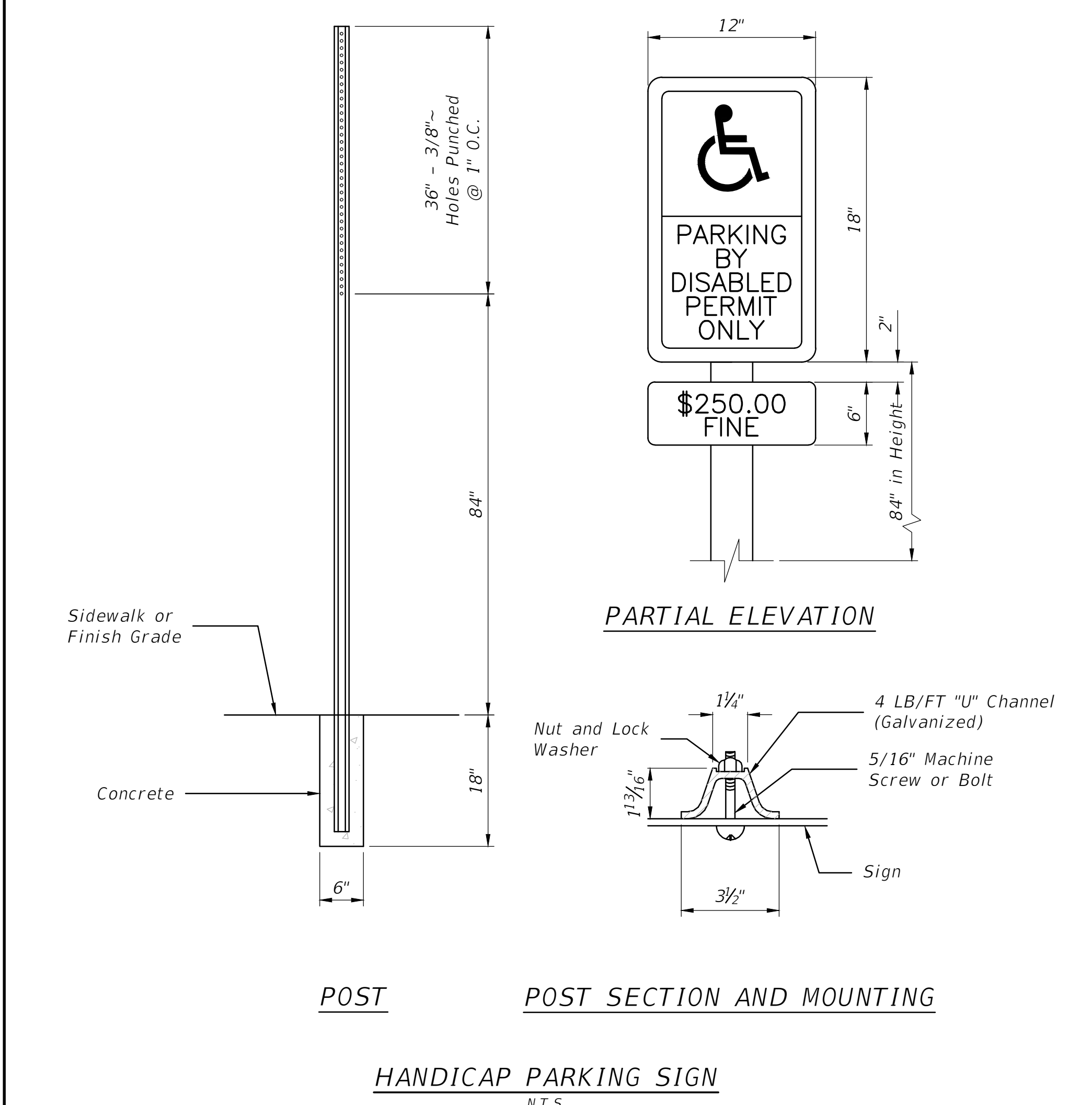
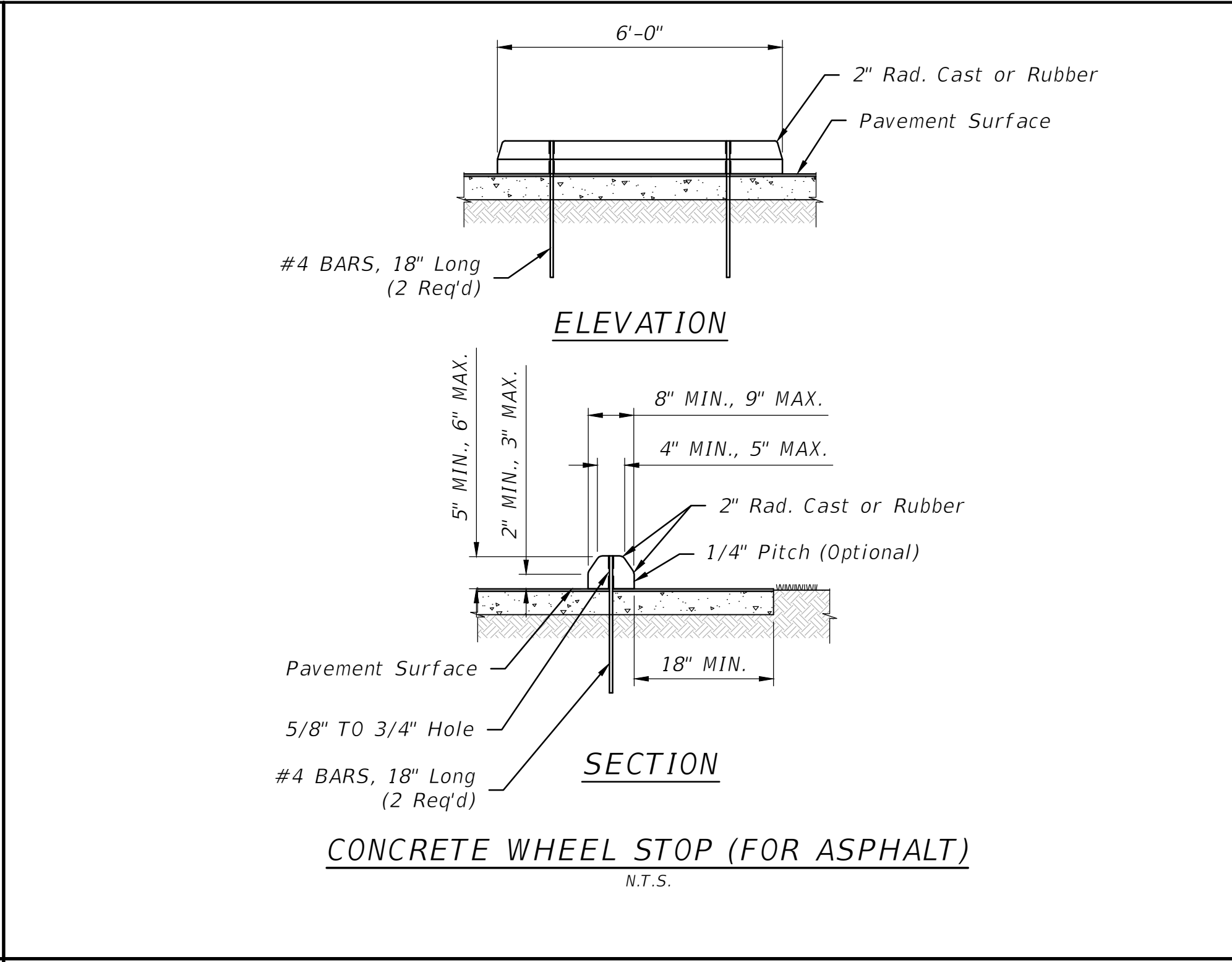
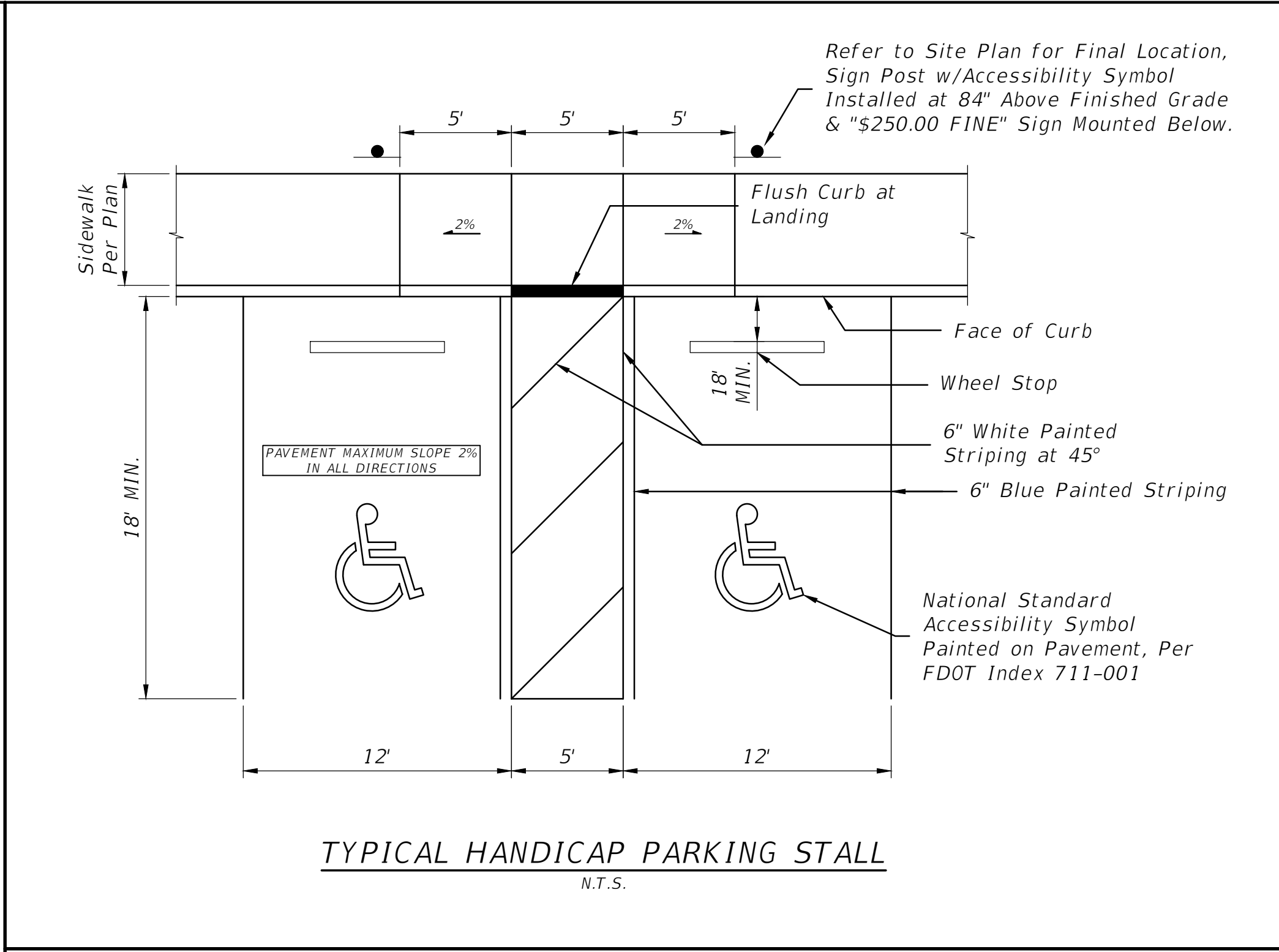
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TOWN CENTER IMPROVEMENTS - OUTDOOR VENUE

SITE DETAILS (1)

SHEET NO.

7



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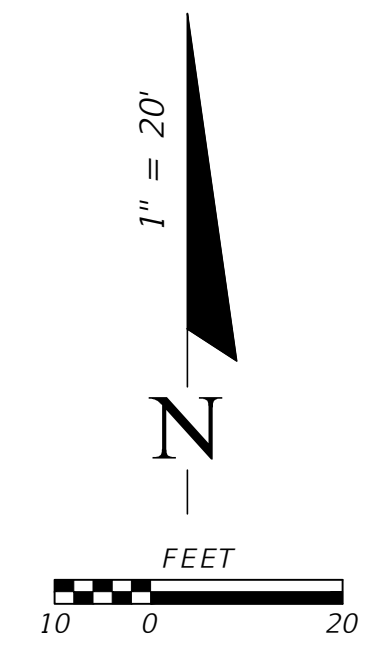
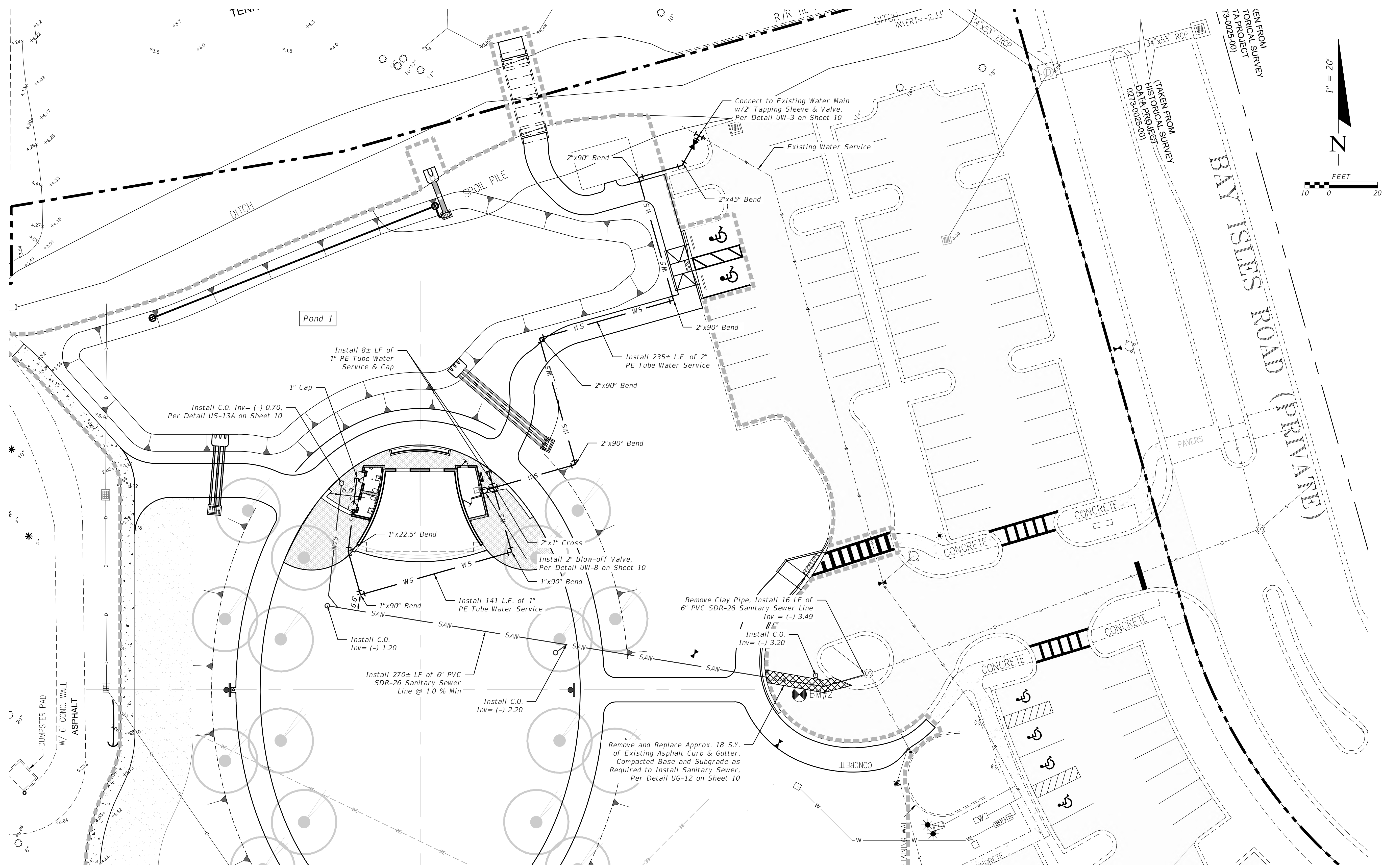
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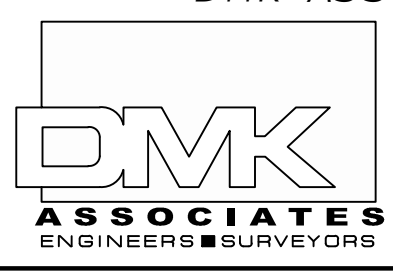
TOWN CENTER IMPROVEMENTS - OUTDOOR VENUE
SITE DETAILS (2)

SHEET NO.
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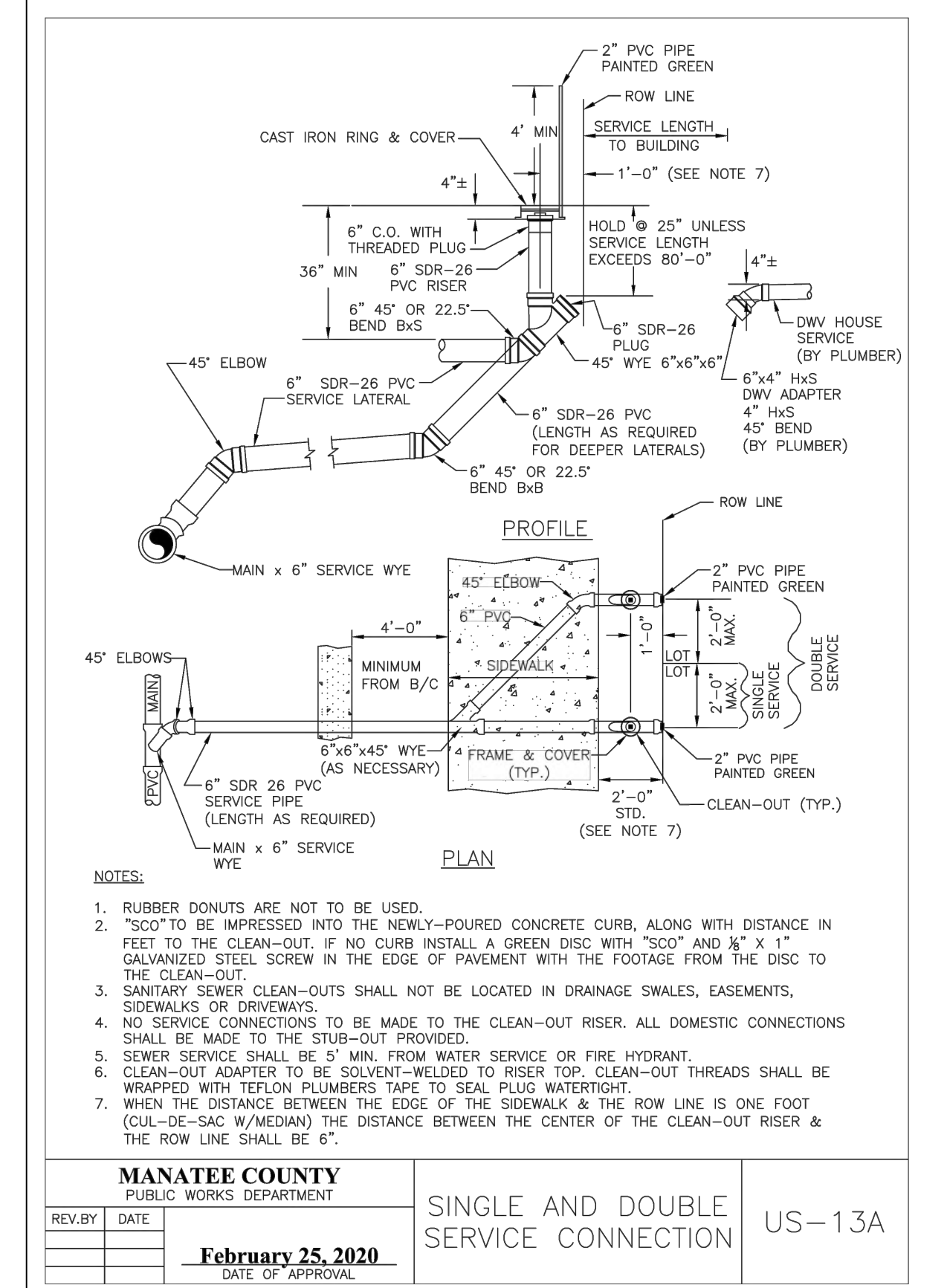
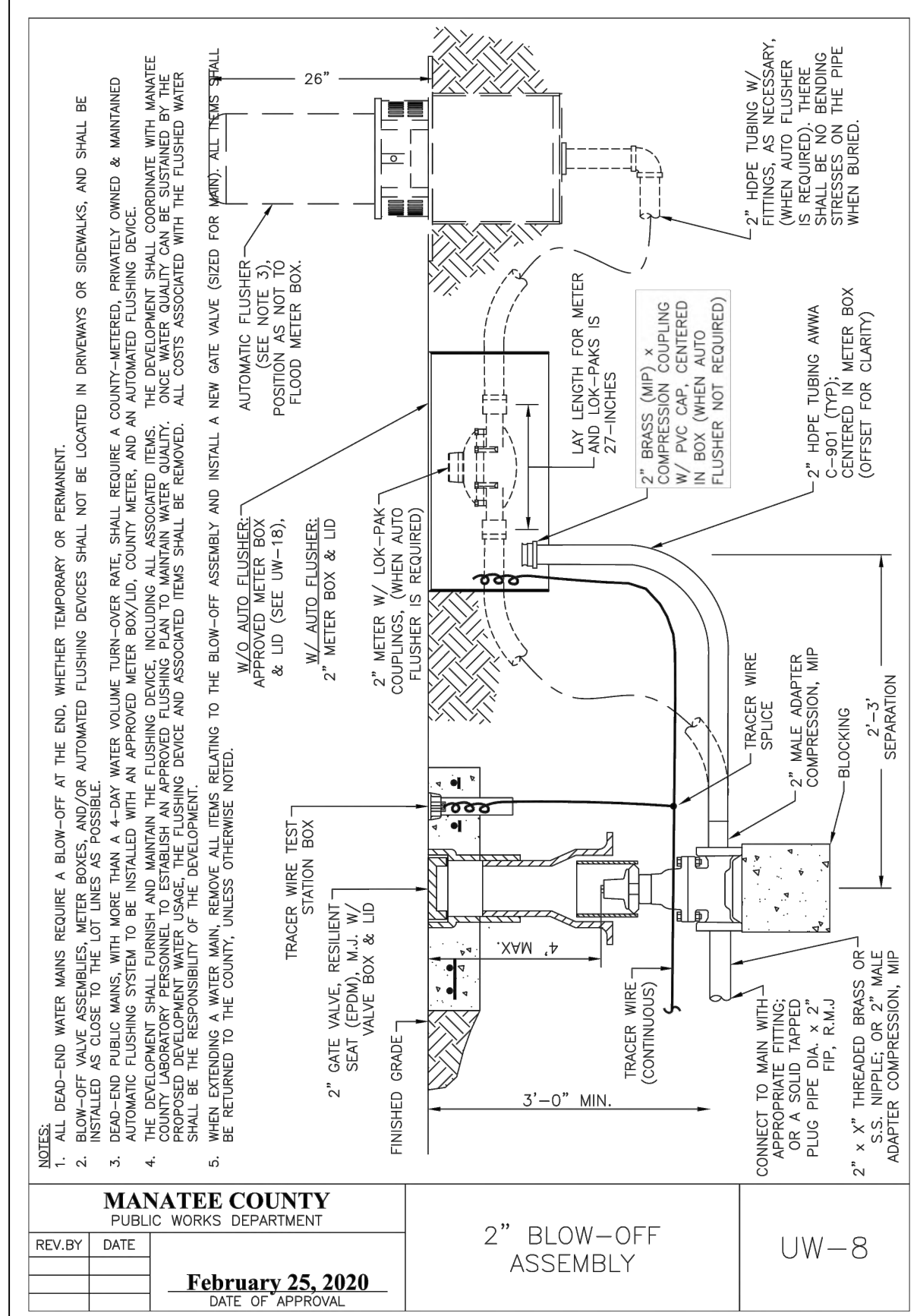
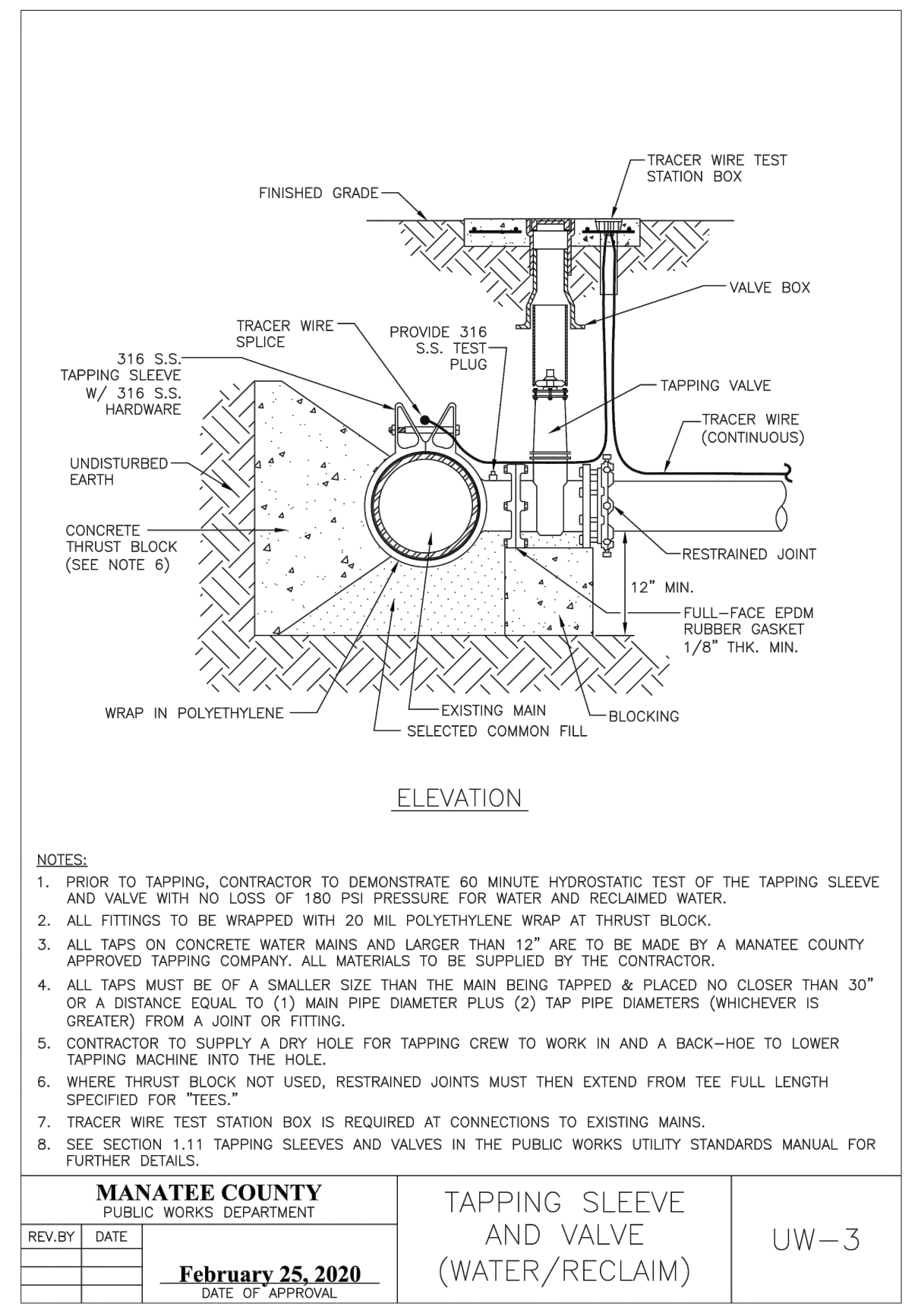
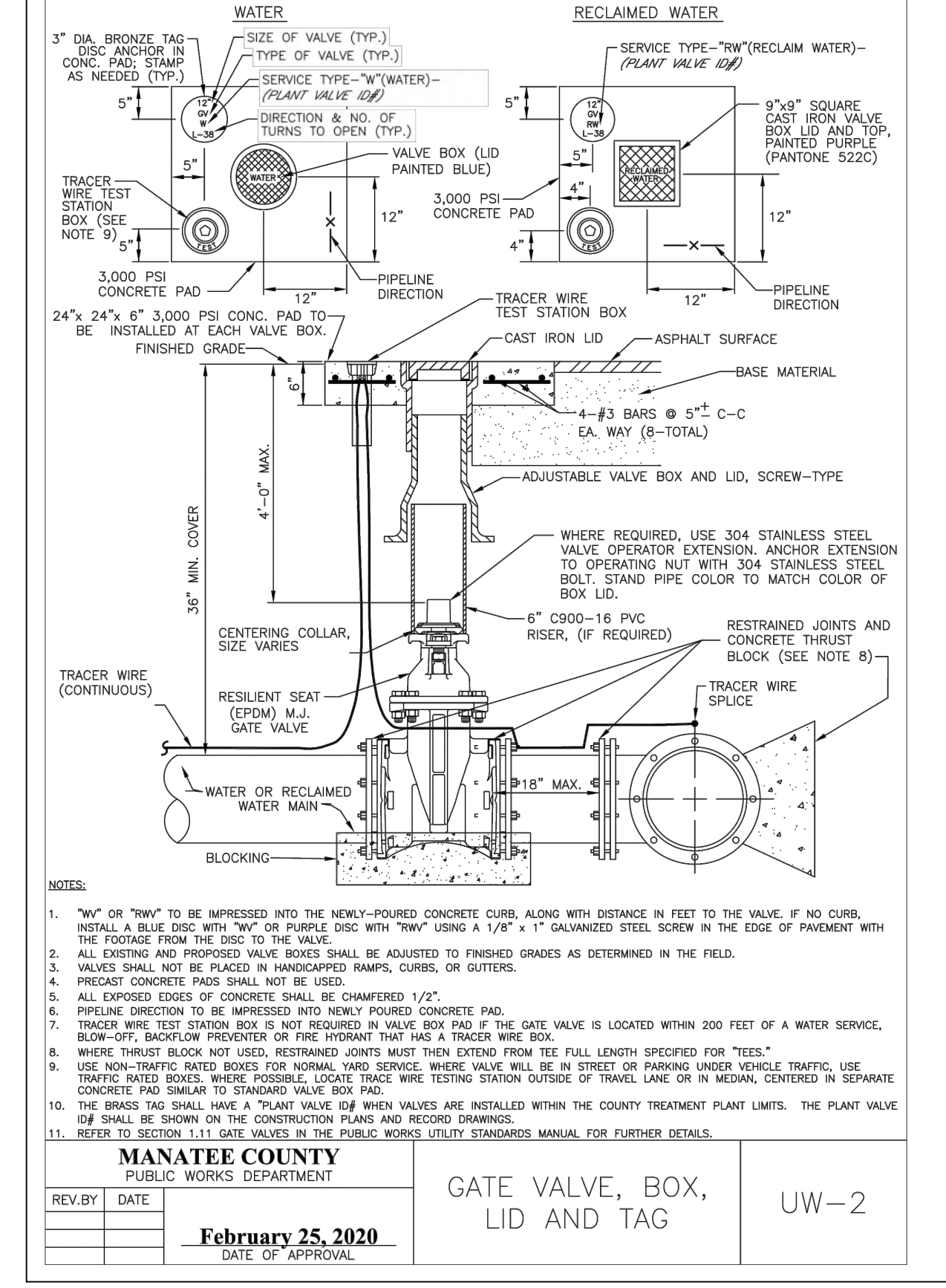
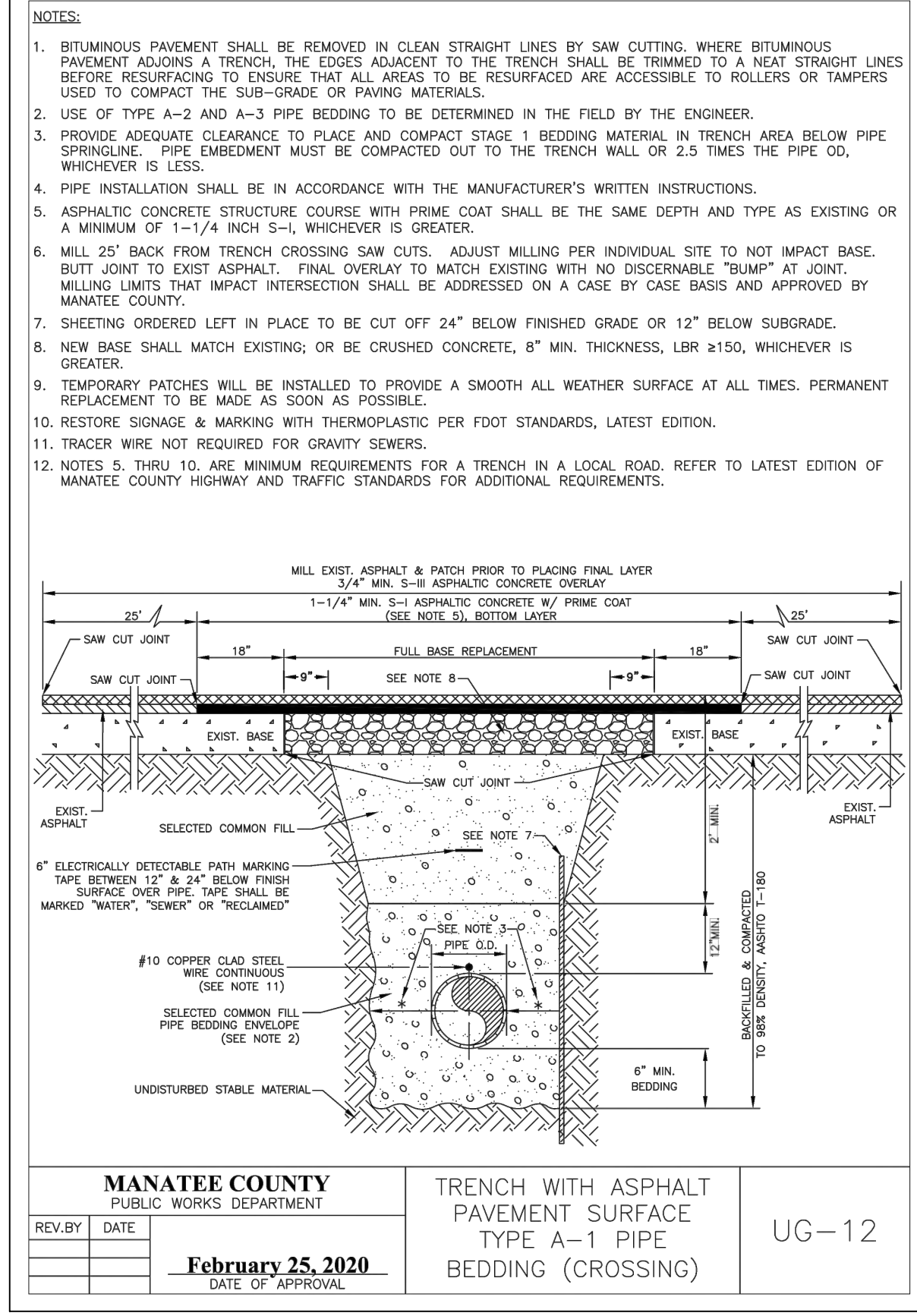
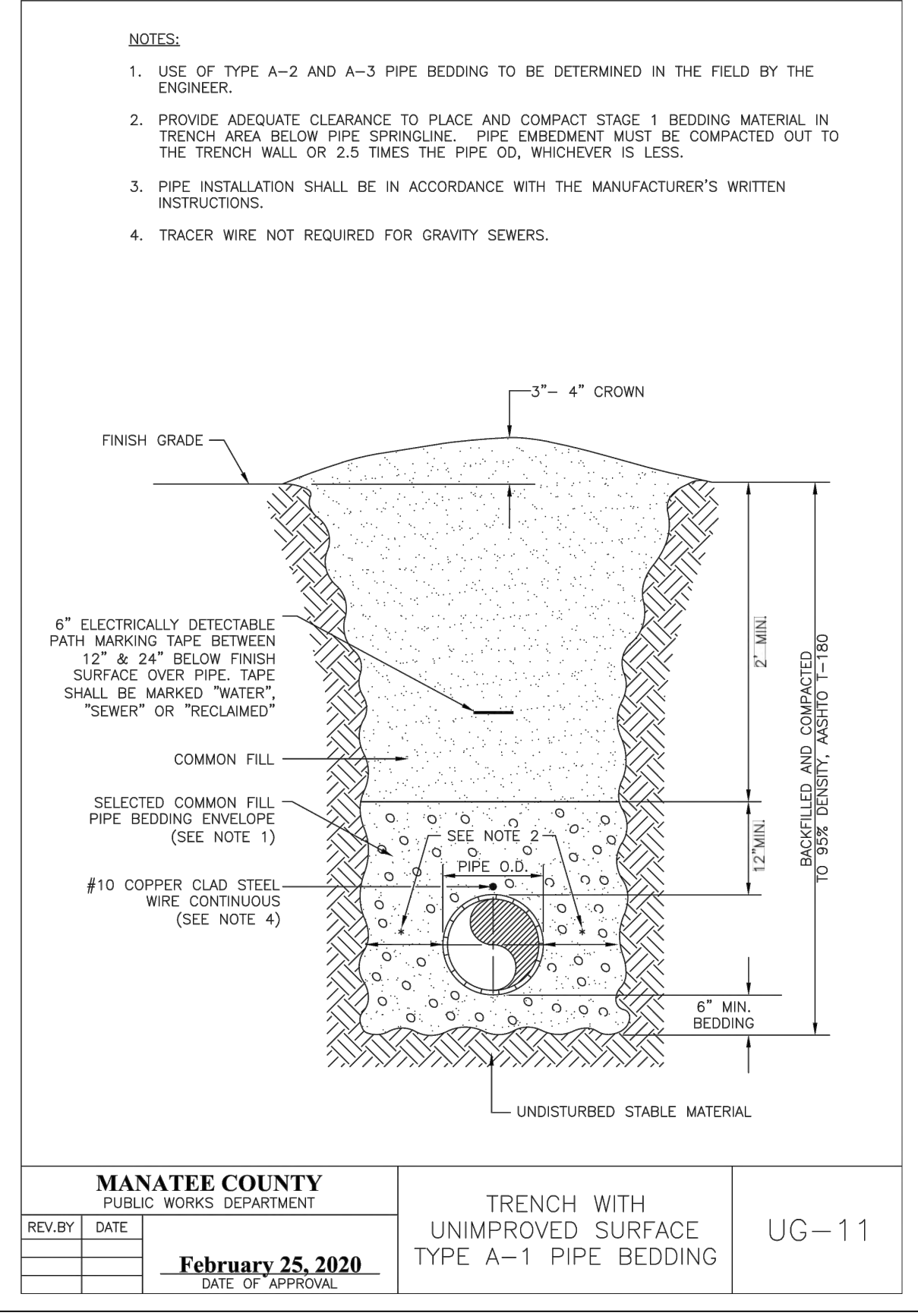


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TOWN CENTER IMPROVEMENTS - OUTDOOR VENUE
UTILITY PLAN

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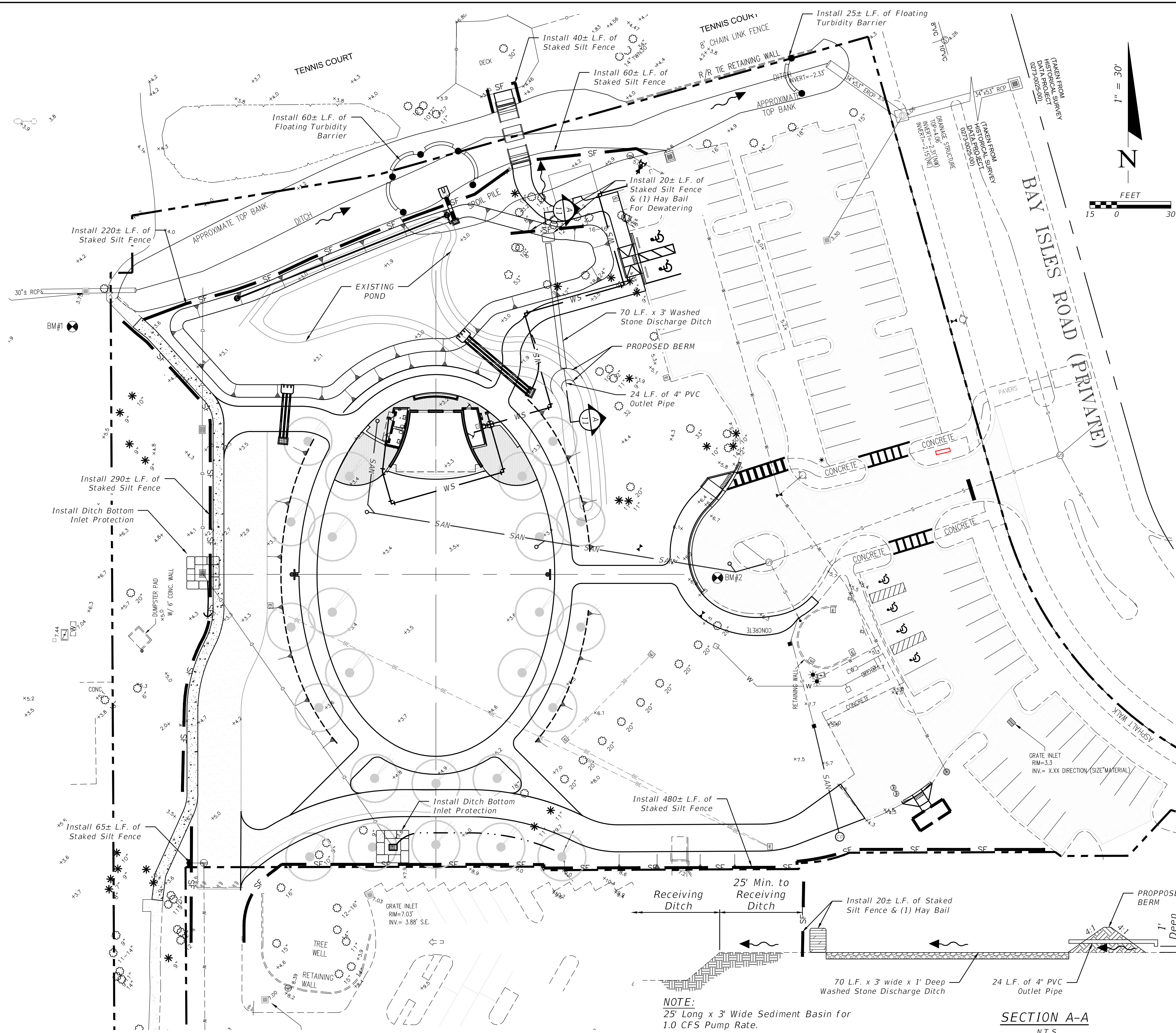
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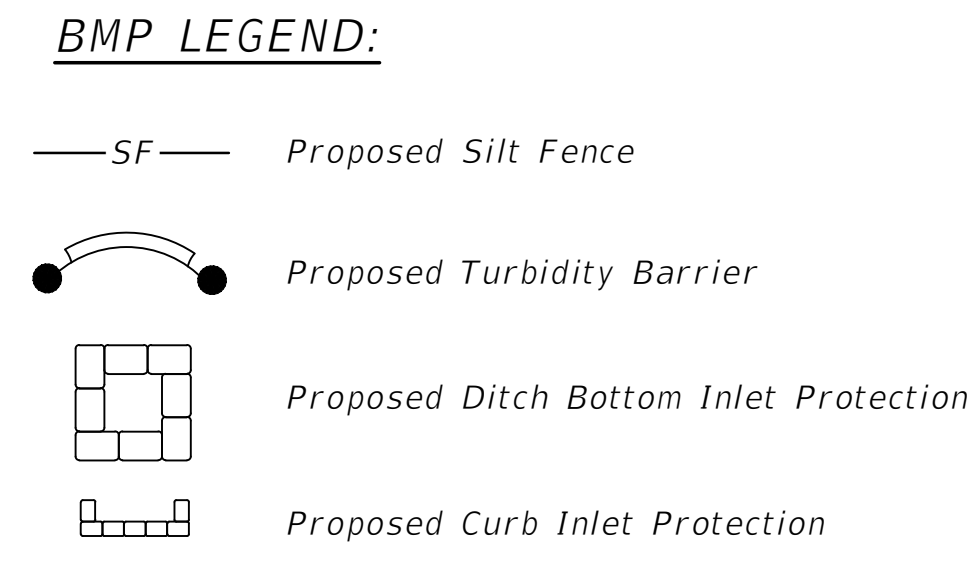
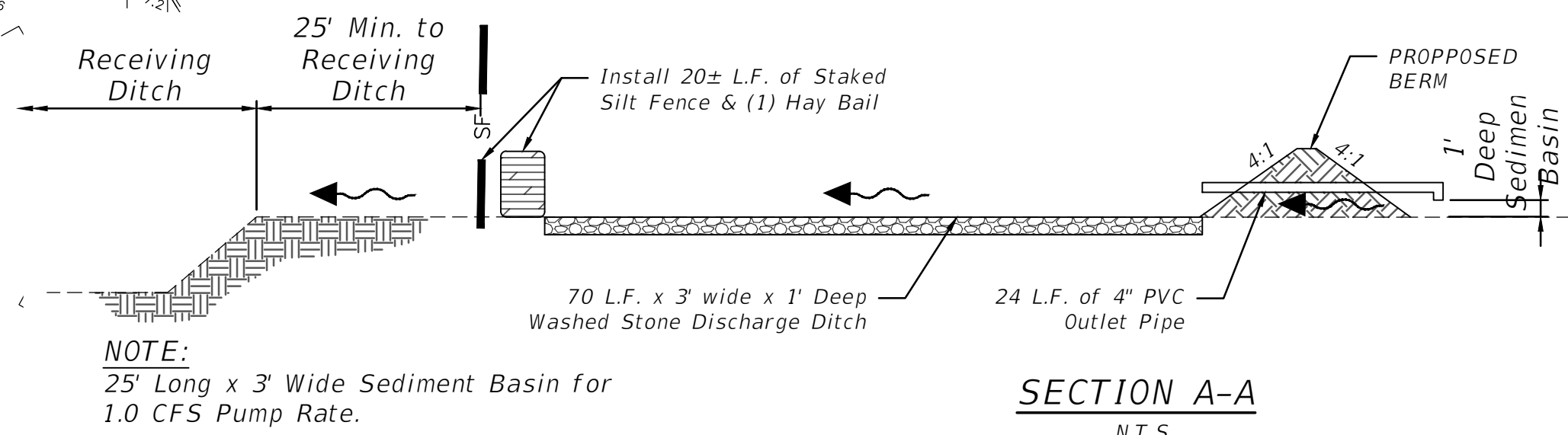
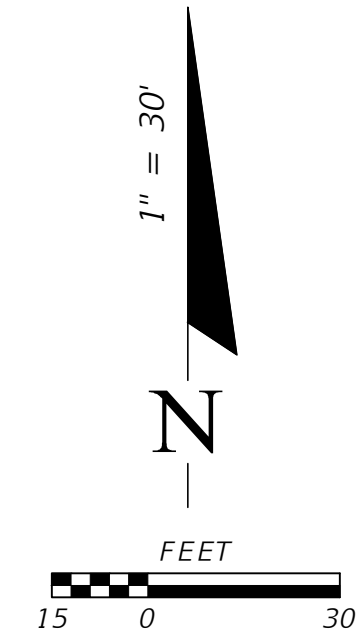
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TOWN CENTER IMPROVEMENTS - OUTDOOR VENUE
UTILITY DETAILS



EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL INSTALL SILT FENCE, STAKED SYNTHETIC BALES, AND FLOATING TURBIDITY SCREENS AS SHOWN ON THE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION. THESE INSTALLATIONS AS SHOWN ON THE DRAWINGS SHALL BE CONSIDERED THE MINIMUM EROSION/SILTATION PROTECTION REQUIRED FOR THE SITE. IN ADDITION THE ENGINEER, OWNER OR OWNERS REPRESENTATIVE MAY DEEM IT NECESSARY TO INSTALL FACILITIES ELSEWHERE ON THE SITE
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE EROSION PROTECTION FACILITIES THROUGH COMPLETION OF CONSTRUCTION. THE CONTRACTOR SHALL PERFORM DAILY INSPECTIONS OF THE FACILITIES TO ENSURE THAT THE EROSION PROTECTION FACILITIES ARE MAINTAINING THEIR PROTECTION FUNCTIONS AND INTEGRITY.
3. IN ADDITION TO THE INSTALLATION OF EROSION PROTECTION FACILITIES, THE ENGINEER, OWNER OR OWNERS REPRESENTATIVE MAY DEEM IT NECESSARY, UPON INSPECTION OF THE SITE, THAT TURBIDITY MONITORING BE PERFORMED BY THE CONTRACTOR. THE MONITORING SHALL BE PERFORMED DAILY IF BACKGROUND TURBIDITY LEVELS REACH 25-29 NTU'S. FOR BACKGROUND TURBIDITY LEVELS LESS THAN 25 NTU'S, TURBIDITY MONITORING SHALL BE PERFORMED WEEKLY. IF THE BACKGROUND TURBIDITY LEVELS ARE GREATER THAN 29 NTU'S, ALL CONSTRUCTION ACTIVITIES SHALL STOP AND THE CONTRACTOR SHALL PROVIDE ADDITIONAL EROSION PROTECTION NECESSARY TO RETURN LEVELS TO 29 NTU'S OR LESS. CONSTRUCTION ACTIVITIES SHALL BEGIN AGAIN ONLY UPON APPROVAL BY THE ENGINEER, OWNER, OR OWNERS REPRESENTATIVE.
4. ALL EROSION PROTECTION FACILITIES SHALL BE REMOVED AFTER CONSTRUCTION COMPLETION, AND WHEN A VEGETATIVE COVER HAS BEEN WELL ESTABLISHED OVER THE CONSTRUCTION AREAS, PER THE PLANS. THE CONTRACTOR SHALL REMOVE PROTECTION FACILITIES ONLY UPON APPROVAL BY THE ENGINEER, OWNER OR OWNERS REPRESENTATIVE.
5. THE CONTRACTOR SHALL PROVIDE, PLACE AND MAINTAIN SYNTHETIC BALE BARRIERS AROUND ALL OPEN STORM INLETS AND JUNCTION BOXES DURING CONSTRUCTION. SYNTHETIC BALES SHALL BE PROPERLY ANCHORED INTO THE GROUND WITH REBARS OR ANY OTHER APPROVED METHODS.
6. AS AN ALTERNATIVE, THE CONTRACTOR MAY USE A RETAINING FABRIC AND SANDBAGS TO PREVENT SEDIMENT FROM ENTERING OPENINGS IN STORM INLETS AND JUNCTION BOXES DURING CONSTRUCTION.
7. SPECIAL EFFORT SHALL BE MADE BY THE CONTRACTOR SO THAT RUNOFF FROM THE SITE DURING CONSTRUCTION IS DIRECTED TOWARDS THE SILT BARRIER(S).
8. SILT BARRIERS SHALL BE USED WHENEVER CONSTRUCTION TAKES PLACE UPSTREAM OF A WETLAND PRESERVE AREA OR IN APPLICABLE DREDGE AND FILL OPERATIONS.
9. PROVIDE SILT FENCE CONTINUOUSLY AROUND PERIMETER OF CONSTRUCTION SITE.
10. THE CONTRACTOR SHALL PROVIDE ADEQUATE STORAGE FACILITIES OR SHELTERS FOR CONSTRUCTION MATERIALS AND CHEMICALS. ALL STORAGE FACILITIES SHALL BE PLANNED AS FAR AWAY FROM NATURAL DRAINAGE FEATURES AS POSSIBLE. INCLUDING CONSERVATION AND PRESERVATION AREAS AS DESIGNATED ON THE PLANS
11. THE CONTRACTOR SHALL DESIGNATE SPECIFIC ROUTES TO HANDLE CONSTRUCTION TRAFFIC AND EQUIPMENT IN ORDER TO MINIMIZE DISTURBED AREAS. A DUST CONTROL PROGRAM INCLUDING USE OF CHLORIDE MAY BE WARRANTED AS DETERMINED BY THE FIELD ENGINEER.
12. REMOVED SOIL SHOULD BE STOCKPILED, PROTECTED AND REDISTRIBUTED OVER DISTURBED AREAS. EXCAVATED MATERIALS SHOULD BE PLACED IN DESIGNATED AREAS PLANNED SUFFICIENT DISTANCE AWAY FROM DRAINAGE FEATURES AND FACILITIES SO AS TO REDUCE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION.
13. THE CONTRACTOR SHALL MINIMIZE THE SIZE OF EXPOSED OR DISTURBED AREAS AND LIMIT THEIR DURATION OF EXPOSURE. IN ORDER TO LIMIT EXPOSED AREAS THE CONTRACTOR SHOULD SCHEDULE OPERATIONS SO THE LAND EXPOSURE IS NOT SUBJECT TO PERIODS OF HIGH EROSION RAINFALL.
14. ALL LITTER AND DEBRIS SHALL BE SELF CONTAINED ON THE SITE AND PLANNED AS FAR AWAY FROM NATURAL DRAINAGE FEATURES AS POSSIBLE.
15. TO PREVENT BIOLOGICAL POLLUTANT, THE CONTRACTOR SHALL PROVIDE PROPER SANITARY FACILITIES AND CONDITIONS ON THE SITE.
16. THE DETAILS DEPICTED HERON ARE INTENDED AS TEMPORARY MEASURES FOR SEDIMENT CONTROL AND ARE TO REMAIN IN PLACE UNTIL THE ENGINEER DIRECTS REMOVAL.
17. ALL OF THE ABOVE SPECIFICATIONS AND NOTES ARE SUBJECT TO THE APPROVAL OF THE FIELD ENGINEER OR ANY OF HIS REPRESENTATIVES, OR REPRESENTATIVES OF REGULATORY AND JURISDICTIONAL AGENCIES.
18. AN EROSION CONTROL PLAN SHALL BE PREPARED BY THE CONTRACTOR. EROSION CONTROL ITEMS ARE ESTIMATED FOR PREVENTION, CONTROL, ABATEMENT OF EROSION, SEDIMENTATION, AND WATER POLLUTION. THESE ITEMS ARE TO BE USED AT THE LOCATIONS DESCRIBED IN THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN OR AS DIRECTED BY THE TOWN ENGINEER TO COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.



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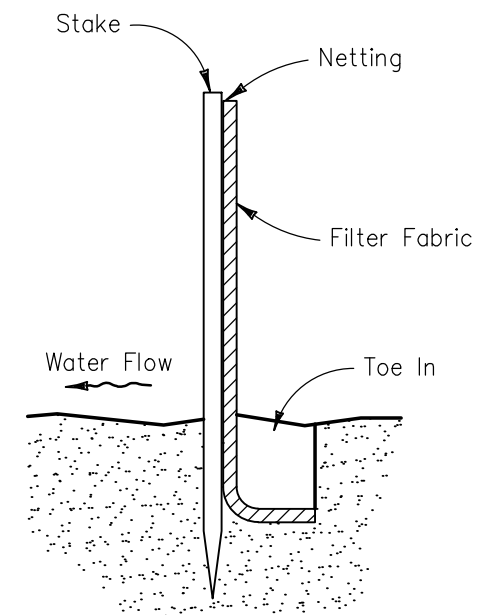
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 (941) 316-1988

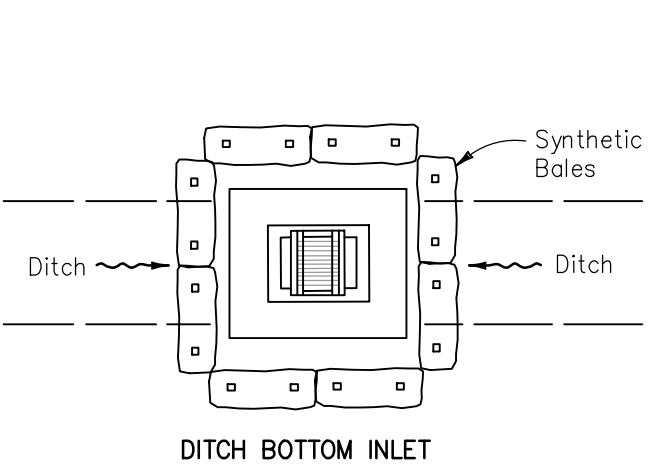
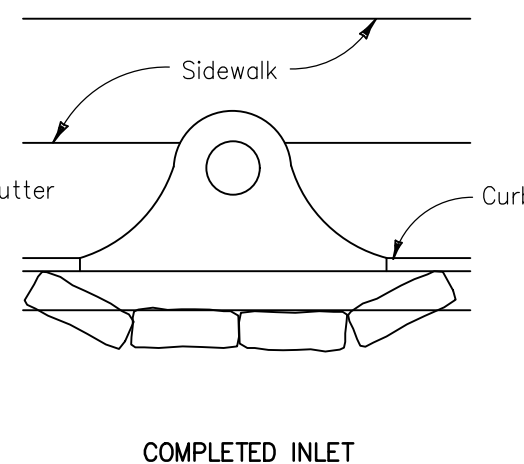
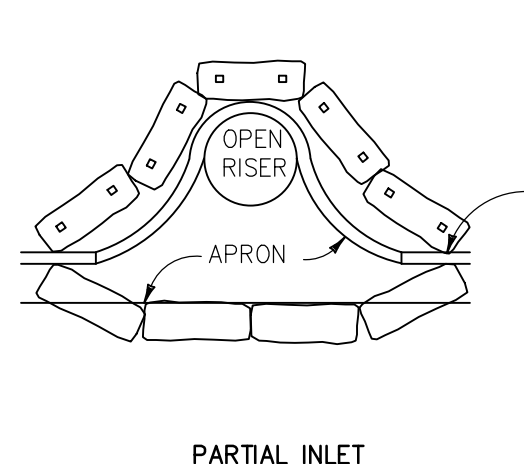
TOWN CENTER IMPROVEMENTS - OUTDOOR VENUE
BEST MANAGEMENT PRACTICES
PLAN & GENERAL NOTES

SHEET NO.
 11

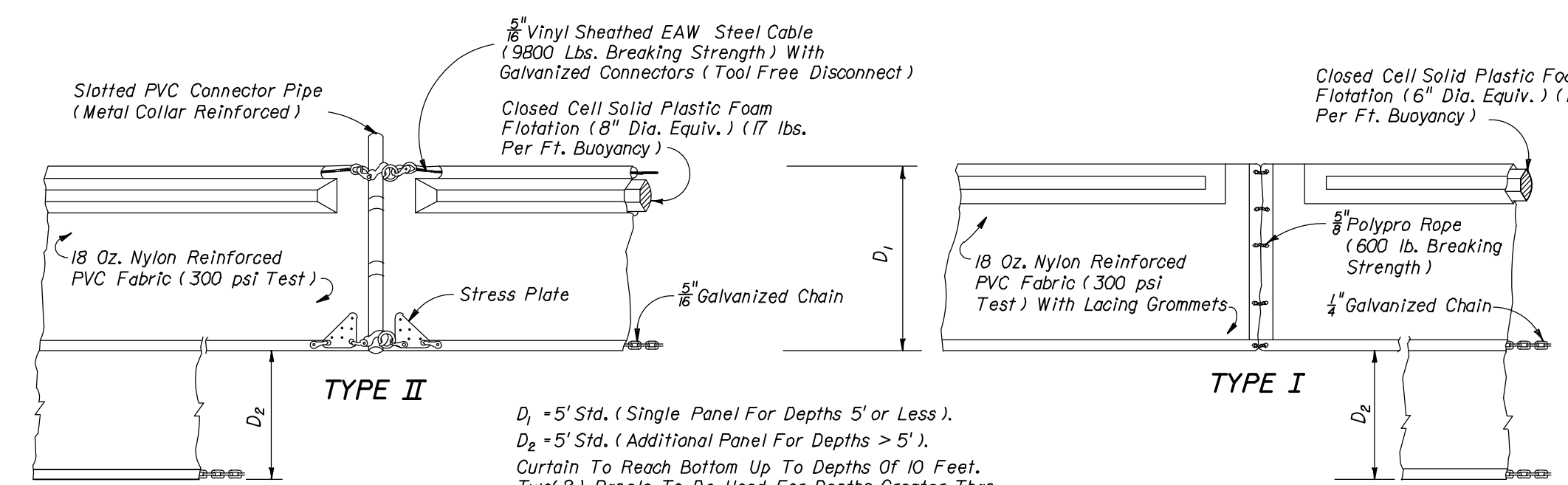


SILT-LOK 36-100 GA: Thirty Six Inches High by One Hundred Feet in Length. Ca. Seventeen Hardwood Stakes (1 1/2" x 1 1/2" x 48") Six Foot Intervals per 100 Ft. Length

SILT BARRIER WETLAND PROTECTION



PROTECTION AROUND INLETS OR SIMILAR STRUCTURES

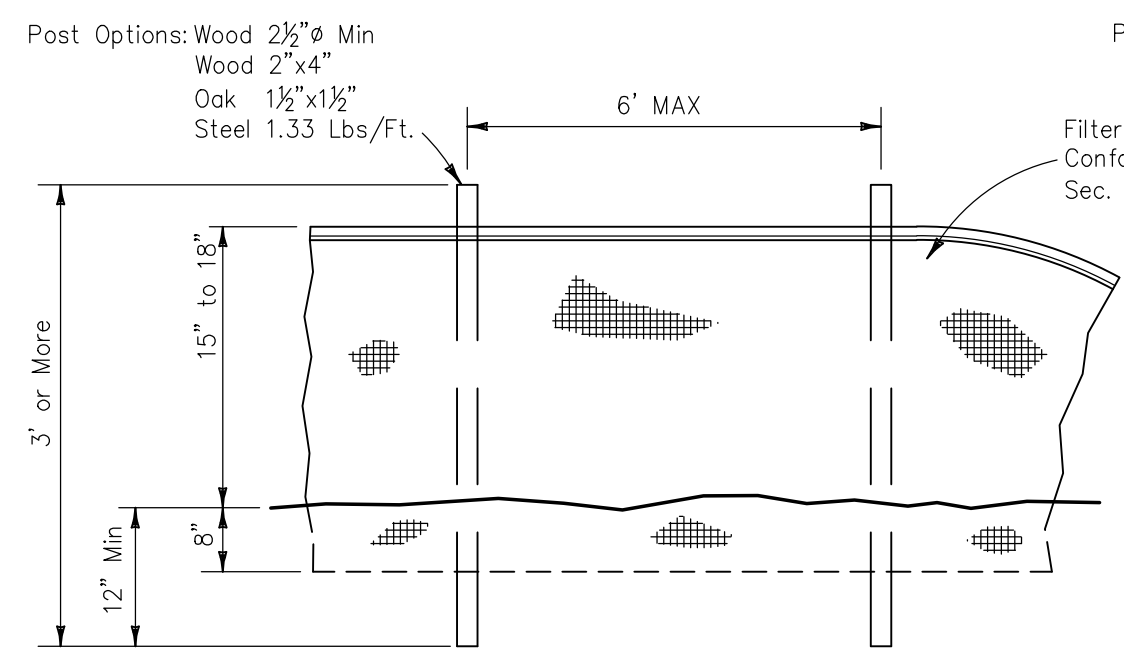


TYPE II D1 = 5' Std. (Single Panel For Depths 5' or Less). D2 = 5' Std. (Additional Panel For Depths > 5').

NOTICE: COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER.

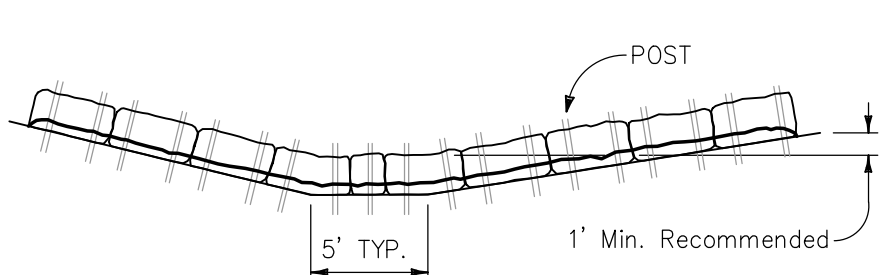
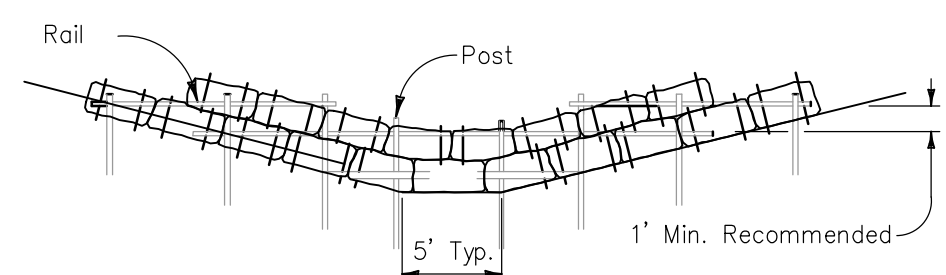
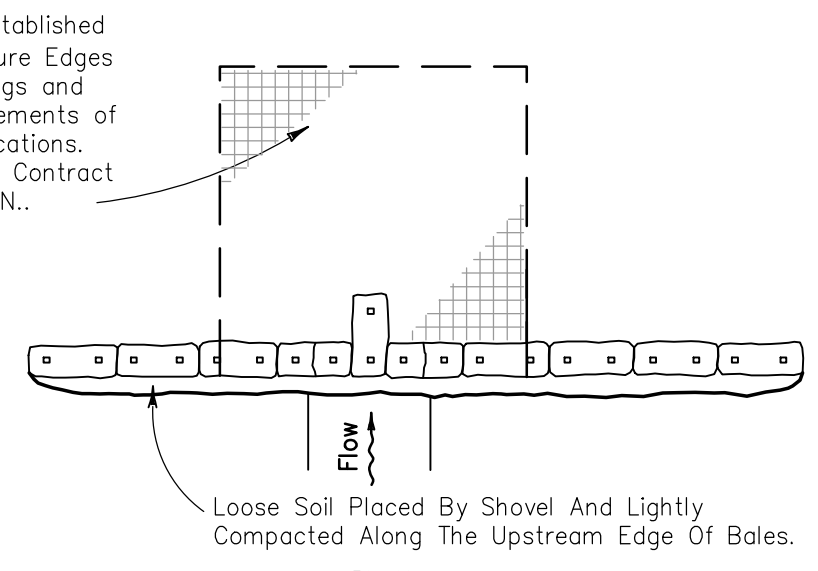
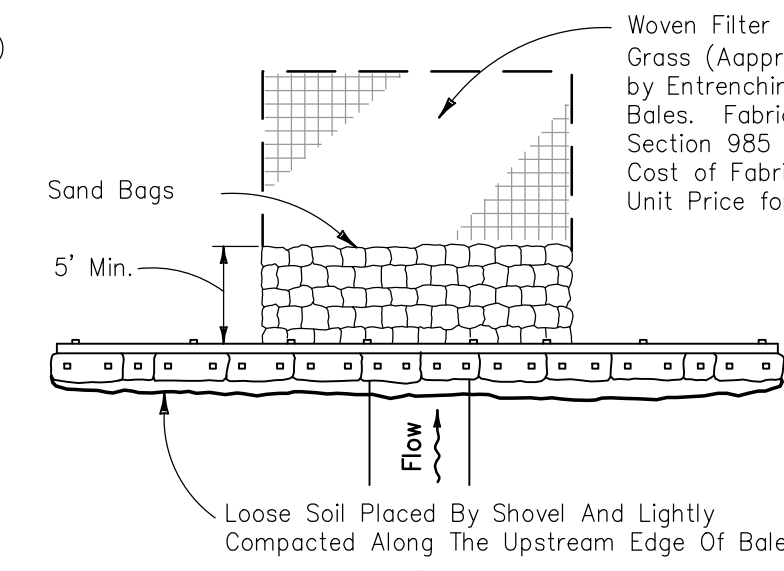
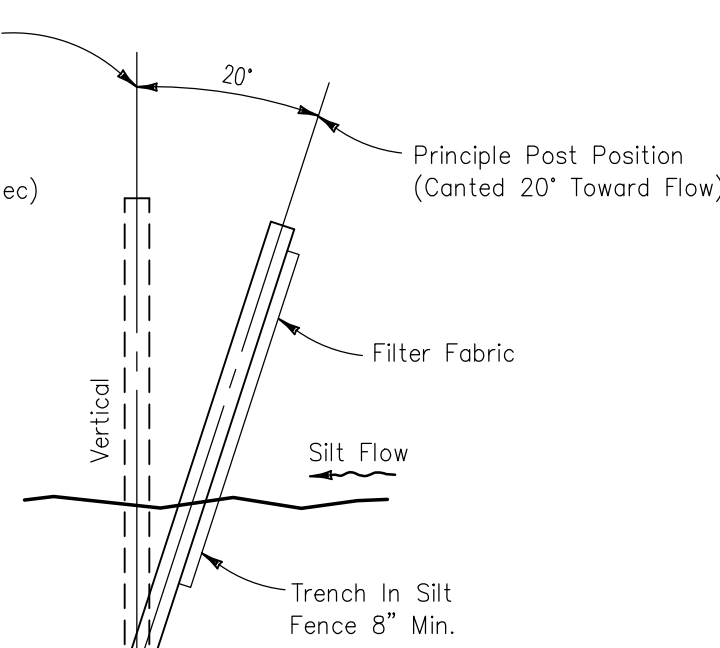
FLOATING TURBIDITY BARRIERS

DAILY INSPECTION OF ALL EROSION AND TURBIDITY CONTROL DEVICES SHALL BE CONDUCTED AND ANY DEFICIENCIES SHALL BE REPAIRED IMMEDIATELY.



Silt Fence to be paid for under the contract unit price for Staked Silt Fence (LF).

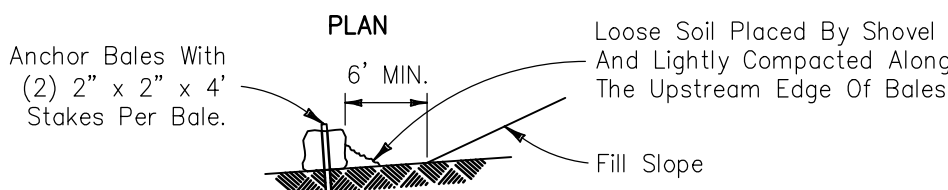
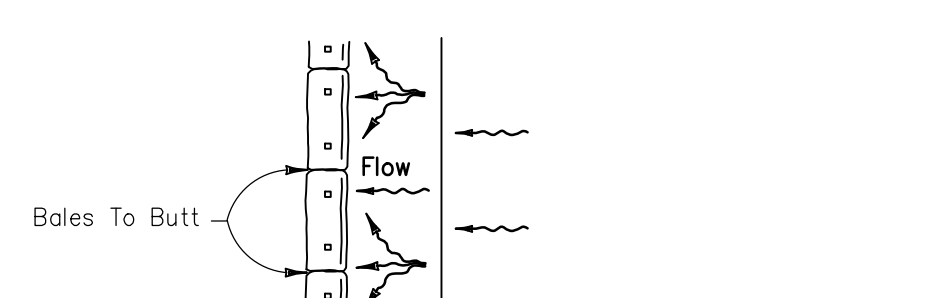
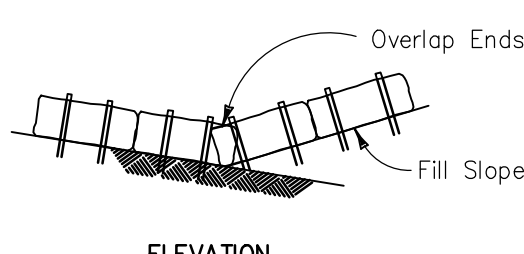
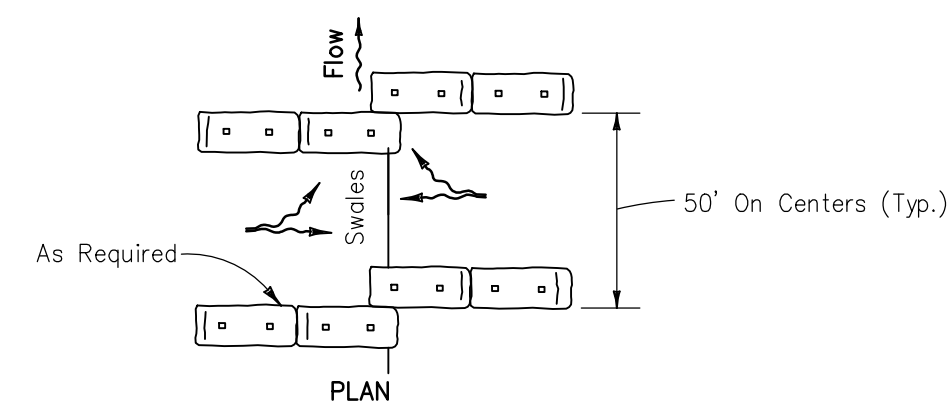
TYPE III SILT FENCE



Anchor Lower Bales With (2) 2" x 2" x 4" Stakes Per Bale. Anchor Top Bales to Lower Bales With (2) 2" x 2" x 4" Stakes Per Bale.

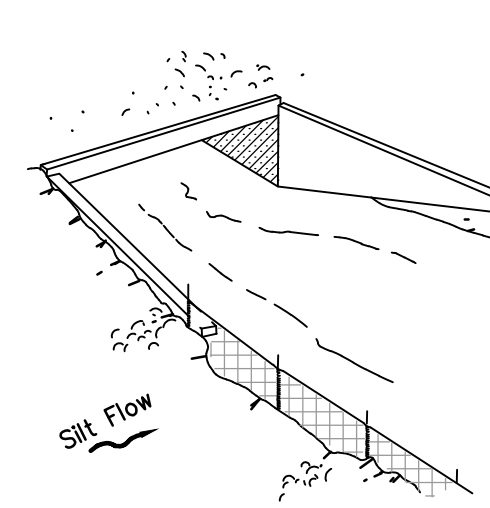
Application and Spacing: The use of Types I & II synthetic bale barriers should be limited to the conditions outlined in chart I, sheet 1 of 3, Index No. 102

SYNTHETIC BALE BARRIER FOR UNPAVED DITCHES

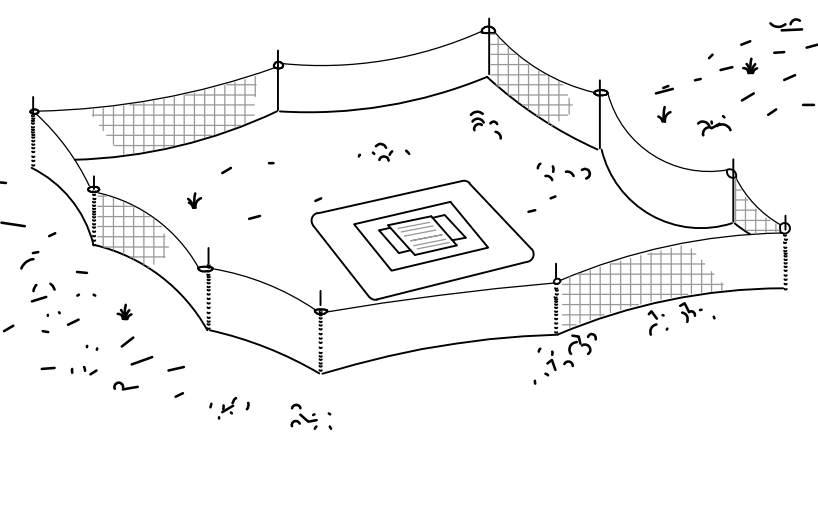


To Be Used At Selected Sites Where The Natural Ground Slopes Away From The Toe Of Slope

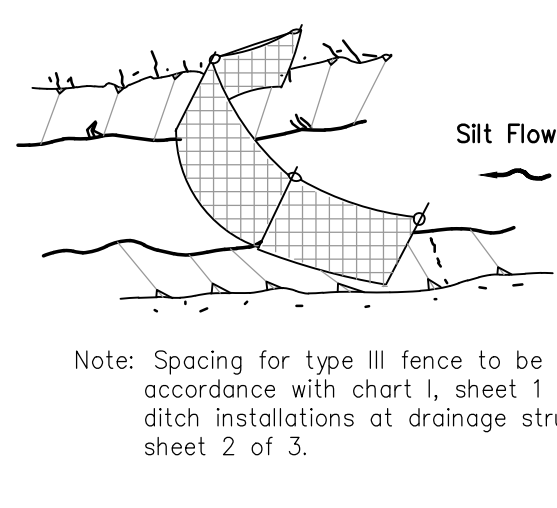
SYNTHETIC BALE BARRIERS FOR FILL SLOPES



Type III or IV Silt Fence



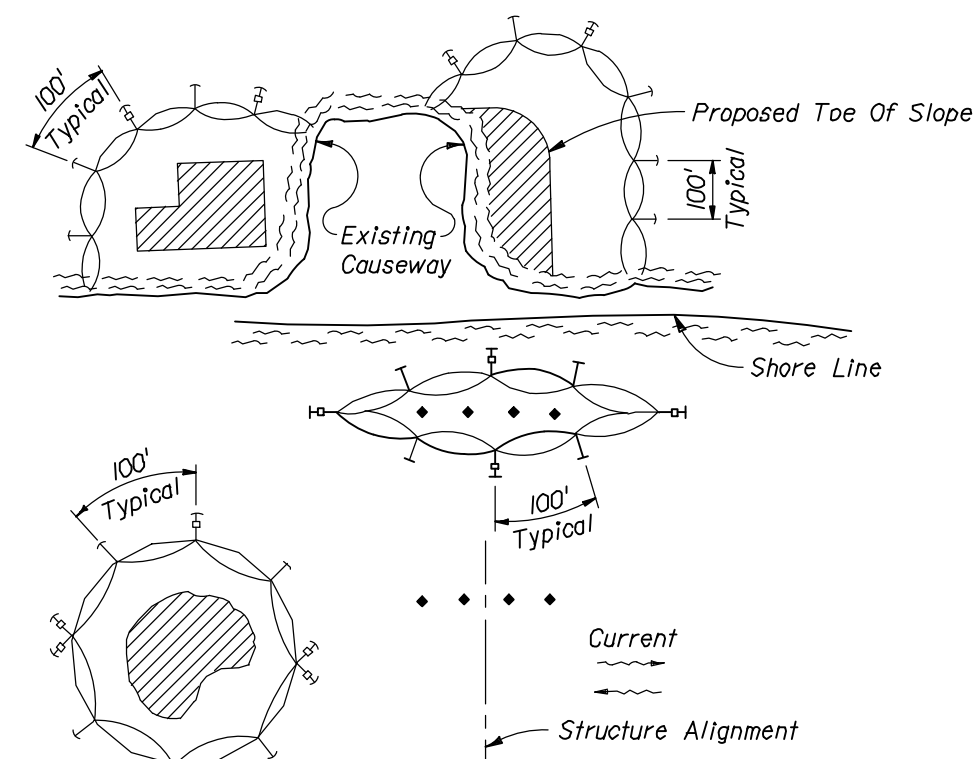
Type III or IV Silt Fence Protection Around Ditch Bottom Inlets



Type III Silt Fence

Do not deploy in a manner that silt fences will act as a dam across permanent flowing watercourses. Silt fences are to be used at upland locations and turbidity barriers used at permanent bodies of water.

SILT FENCE APPLICATIONS



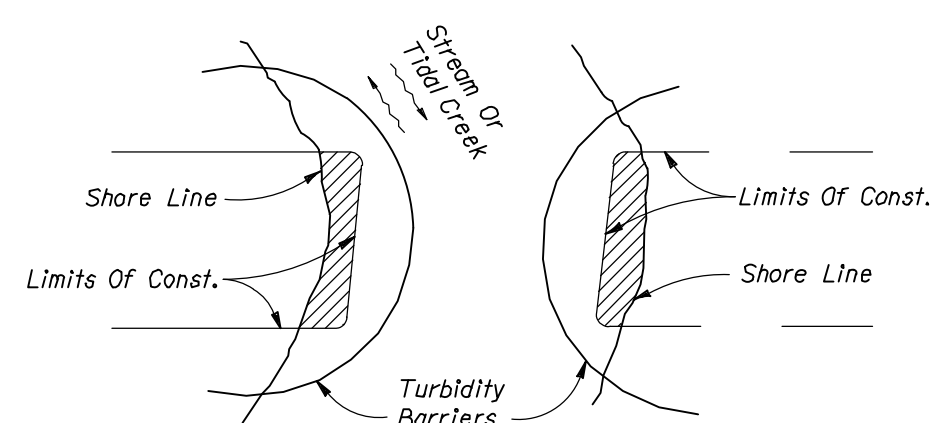
- NOTES: 1. Turbidity barriers are to be used in all permanent bodies of water regardless of water depth. 2. Number and spacing of anchors dependent on current velocities.

GENERAL NOTES

- 1. Floating turbidity barriers are to be paid for under the contract unit price for Floating Turbidity Barrier, LF. 2. Staked turbidity barriers are to be paid for under the contract unit price for Staked Turbidity Barrier, LF.

LEGEND

- Pile Locations
Dredge Or Fill Area
Mooring Buoy w/Anchor
Anchor
Barrier Movement Due To Current Action



Note: Turbidity barriers for flowing streams and tidal creeks may be either floating, or staked types or any combinations of types that will suit site conditions and meet erosion control and water quality requirements.

TURBIDITY BARRIER APPLICATIONS

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.

SCALE: NOTED @ 22"x34"
DESIGNED BY: J. PARI
DRAWN BY: R. STEELE
CHECKED BY: J. PARI

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.
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
BEST MANAGEMENT PRACTICES
DETAILS

SHEET NO. 12



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

Karon Family Pavilion
Longboat Key Town Center Park
 501 Bay Isle Road
 Longboat Key, FL 34228

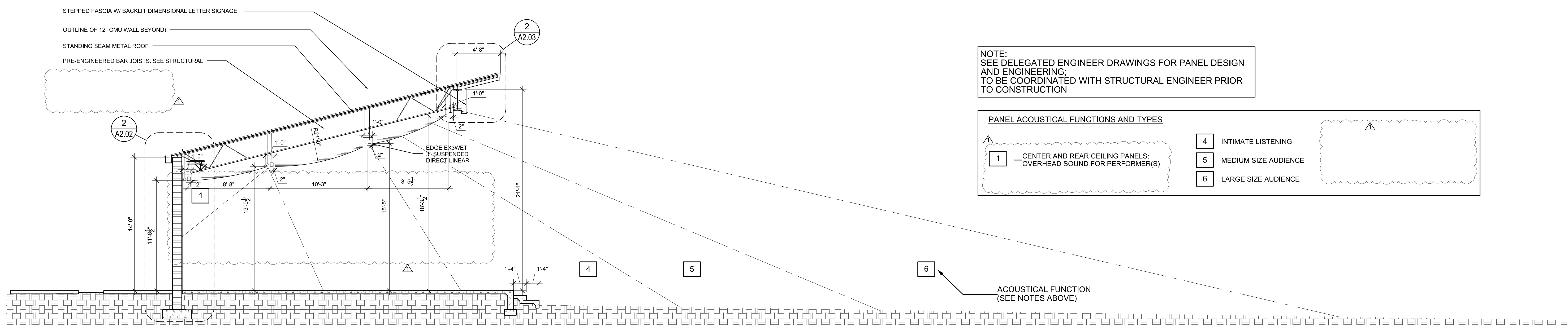
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Rev. No.	Description of Revision	Date
(XXX)	(XXX)	(XXX)

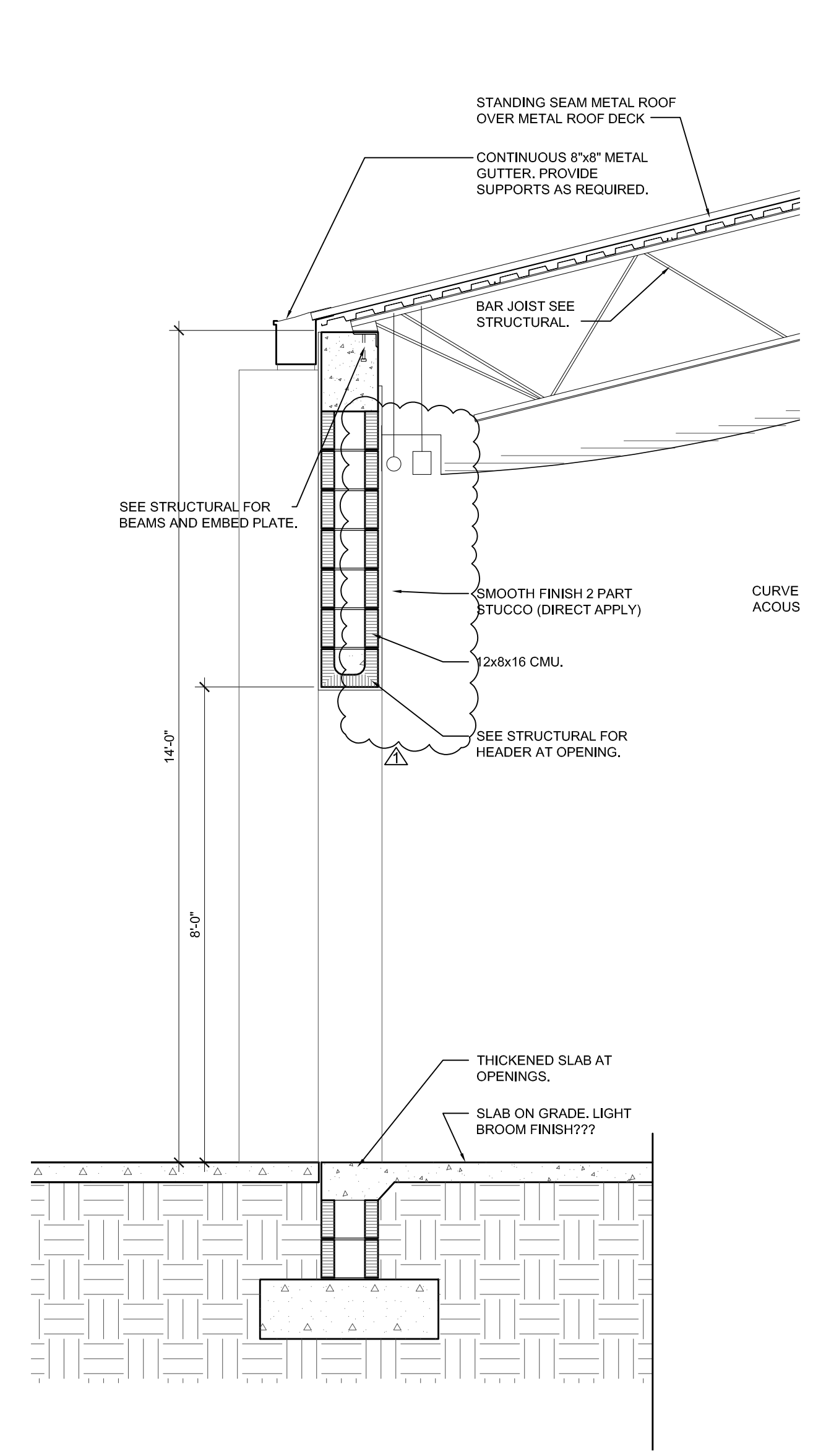
STATE OF FLORIDA
 GARY B. HOYT
 REGISTERED ARCHITECT
 82210381
 Gary B. Hoyt AIA
 AR 0008999
 Date:

SECTIONS

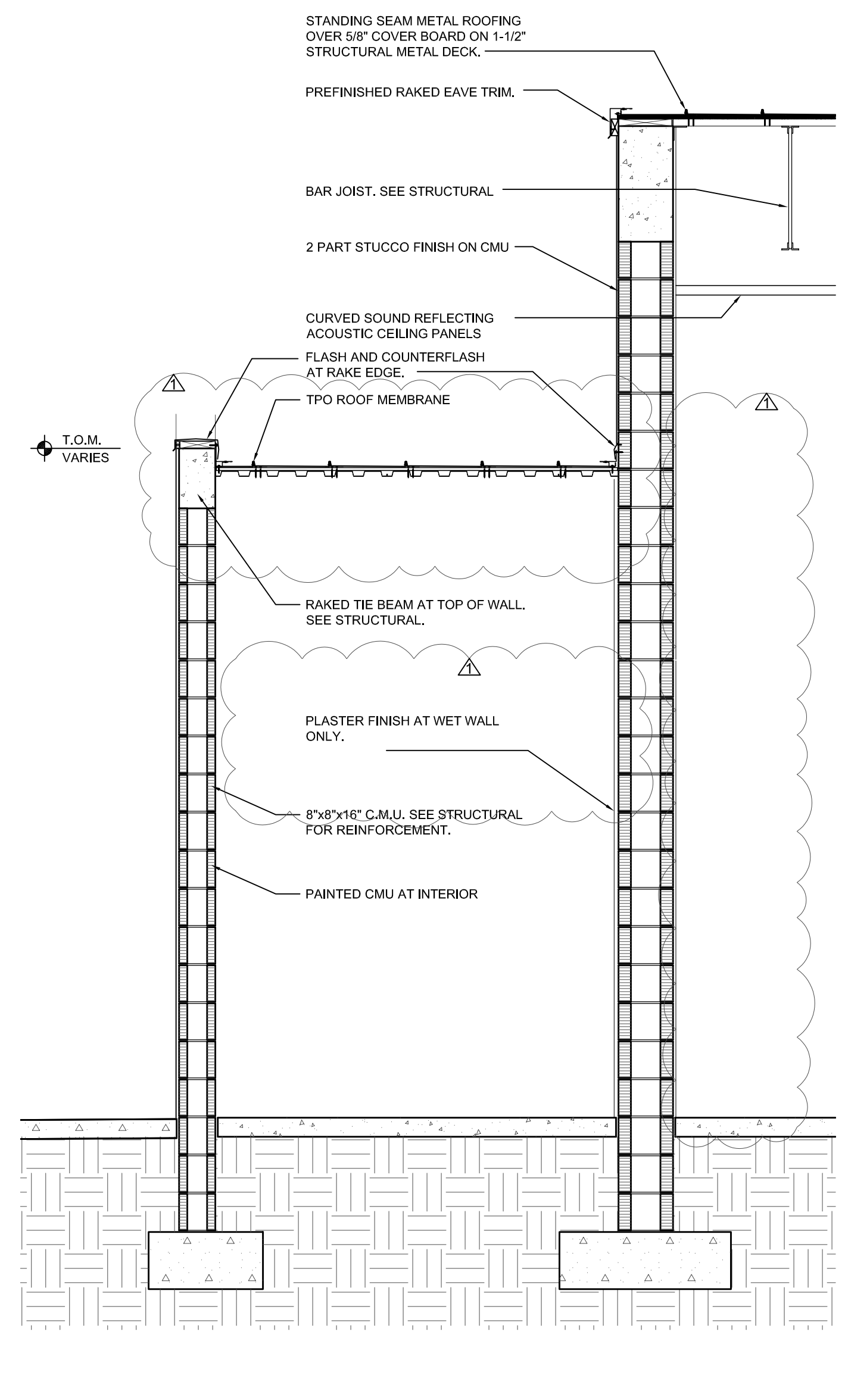
Date	Project No.	Sheet
8-25-2022		A2.02
Office File Location		
S:\PROJECTS\020207		



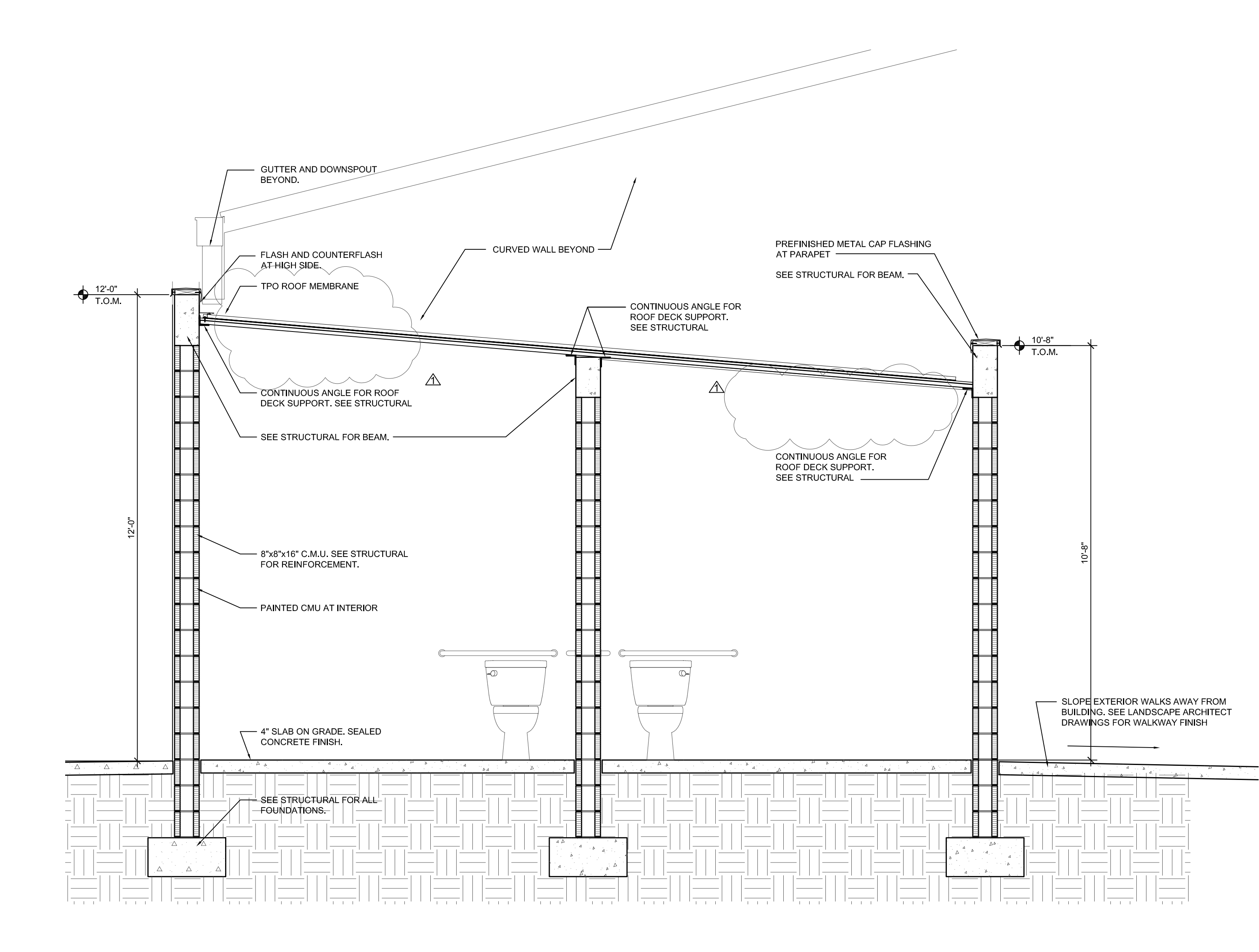
1 BUILDING SECTION
 SCALE: 3/16" = 1'-0"



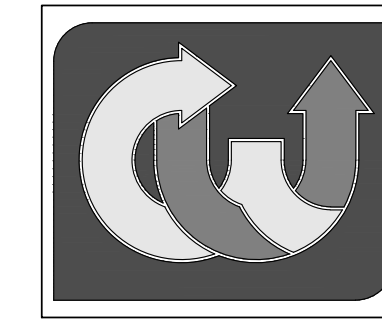
2 WALL SECTION
 SCALE: 1/2" = 1'-0"



3 WALL SECTION
 SCALE: 1/2" = 1'-0"



4 WALL SECTION / PARTIAL BUILDING SECTION
 SCALE: 1/2" = 1'-0"



CRAWFORD, WILLIAMS ENGINEERING, Inc.
 MECHANICAL, ELECTRICAL, PLUMBING & FIRE
 CA 7029
 6989 PROFESSIONAL PARKWAY EAST, SARASOTA, FLORIDA 34240
 tel [941] 907-0103 Fax [941] 907-0152



HOYT ARCHITECTS
 1627 SECOND STREET, SARASOTA, FLORIDA 34236
 T | 941.366.0066 F | 941.366.7454 www.hoytarchitects.com

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

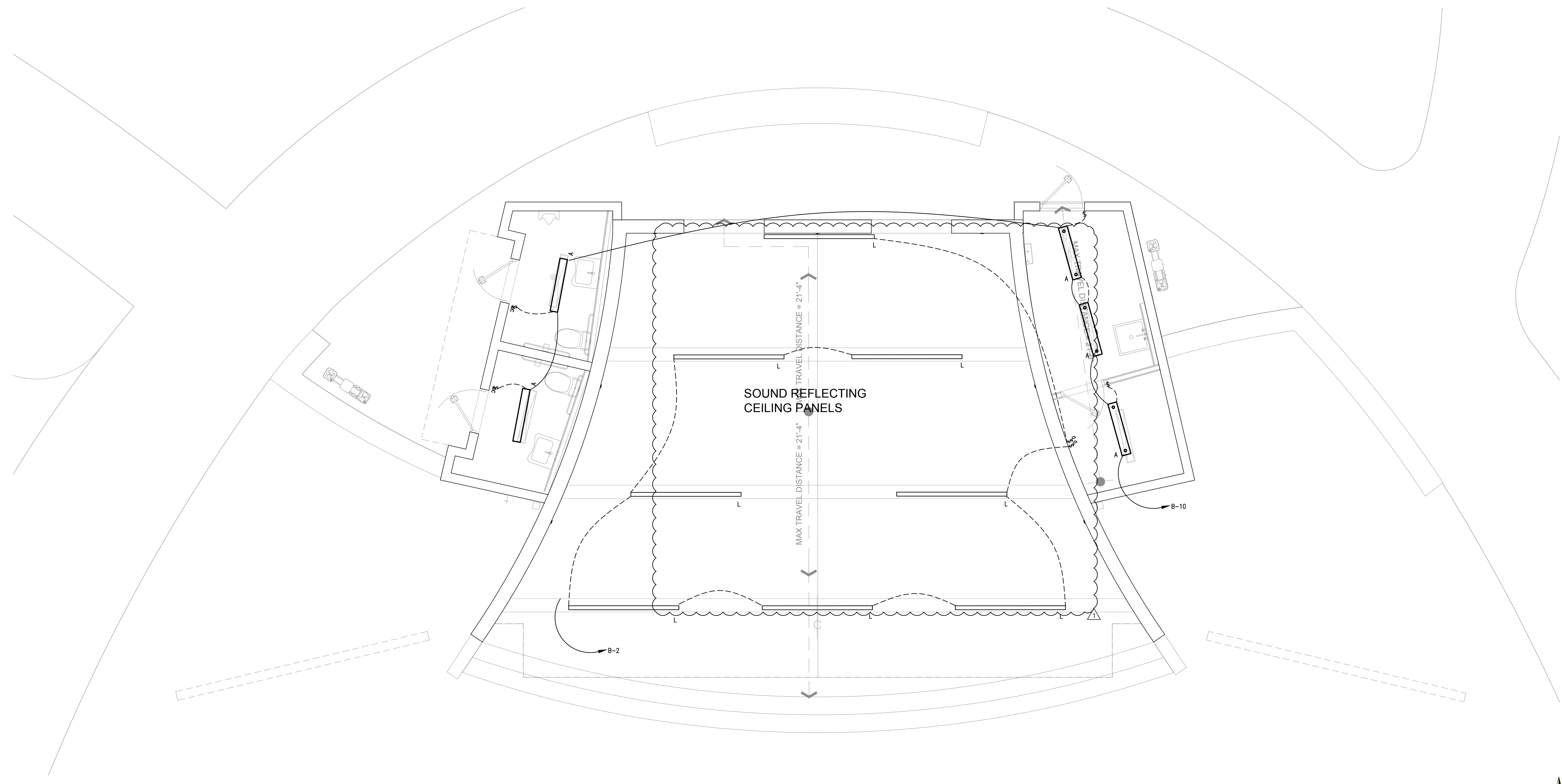
STRUCTURAL ENGINEER:
BNI ENGINEERS
 2202 N. WESTSHORE BLVD, SUITE 200, TAMPA, FL 33607
 PHONE: 813.568.1818

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

Karon Family Pavilion
Longboat Key Town Center Park
501 Bay Isle Road
Longboat Key, FL 34228

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LIGHTING FIXTURE SCHEDULE					
LTR	MANUFACTURER	CATALOG NUMBER	SOURCE	MOUNTING	DESCRIPTION
A	EATON	HVSLB-4-LD4-STD-35-UNV-0-EDD-1	LED	SURFACE	VANDAL RESISTANT LINEAR
L	PINNACLE	PINNACLE EX3 NET N 850HQ-8	LED	SURFACE	LINEAR STAGE LIGHTING



ELECTRICAL LIGHTING FLOOR PLAN 1/4" = 1'-0"
 0 5' 10'

Rev. No.	Description of Revision	Date
1	Building Comments & General Revision	11-02-2022

WILLIAM SCOTT CRAWFORD
 No. 39436
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 W.M. SCOTT CRAWFORD
 P.E. No. 39436
 Date: 08/23/2022

ELECTRICAL LIGHTING PLAN

Date	Project No.	Sheet
		E1.10

TO THE BEST OF THE ENGINEER'S KNOWLEDGE, SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS AS DETERMINED IN ACCORDANCE WITH CHAPTERS 553 AND 633, FLORIDA STATUTES © 2022, CRAWFORD WILLIAMS ENGINEERING, INC.

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 MECHANICAL, ELECTRICAL, PLUMBING & FIRE
 CA 7029
 6989 PROFESSIONAL PARKWAY EAST, SARASOTA, FLORIDA 34240
 tel [941] 907-0103 Fax [941] 907-0152

HOYT ARCHITECTS
 1527 SECOND STREET, SARASOTA, FLORIDA 34236
 T | 941.366.0066 F | 941.366.7454
 www.hoytarchitects.com

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:
DWA 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

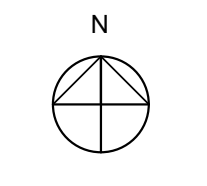
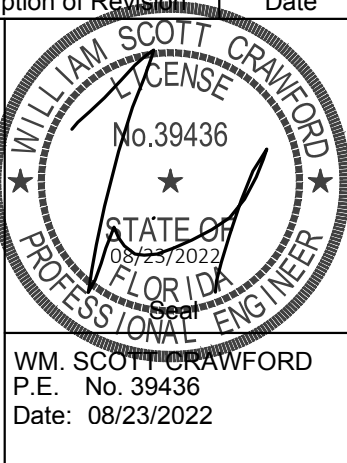
MEPF ENGINEER:
CRAWFORD WILLIAMS ENGINEERING, INC.
 6989 PROFESSIONAL PARKWAY EAST
 SARASOTA FL 34240
 PHONE: 941.907.0103

Karon Family Pavilion
Longboat Key Town Center Park
501 Bay Isle Road
Longboat Key, FL 34228

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▲	Building Comments & General Revision	11-02-2022
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Rev. No.	Description of Revision	Date

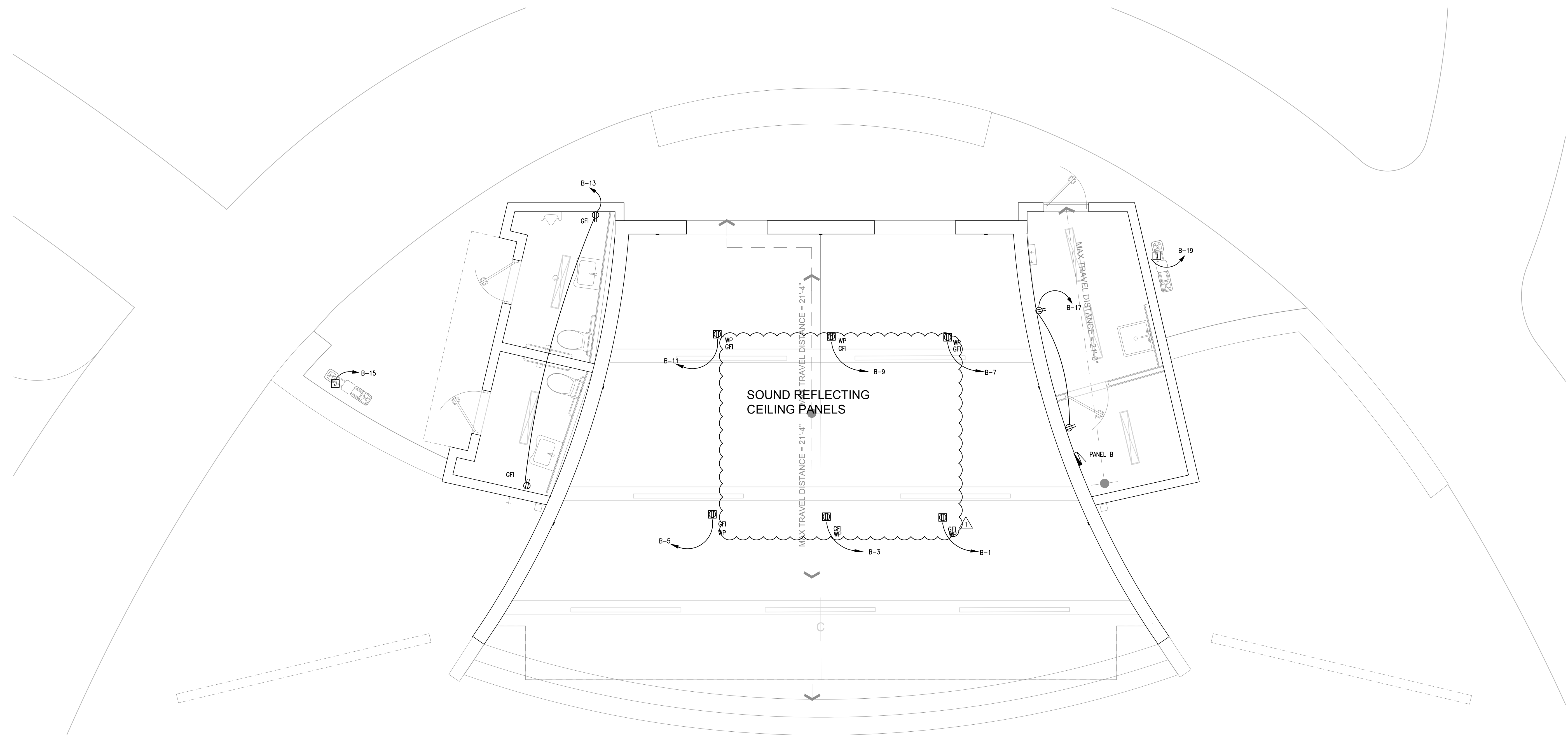


WM. SCOTT CRAWFORD
 P.E. No. 39436
 Date: 08/23/2022

ELECTRICAL POWER PLAN

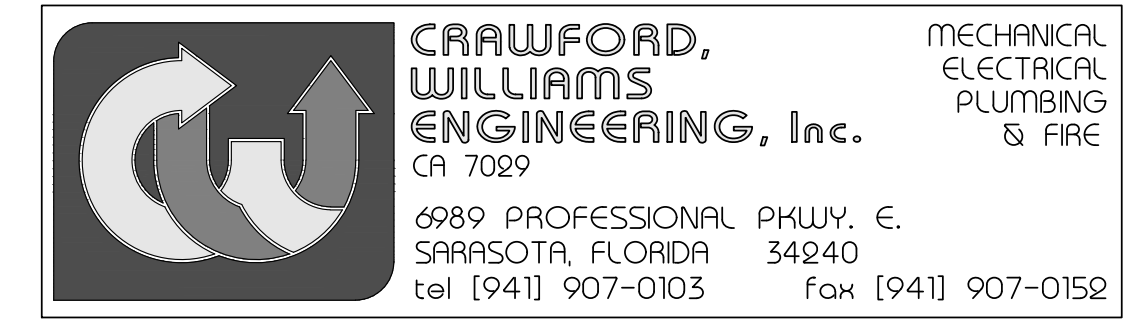
Date	Project No.	Sheet

Office File Location
 S:\PROJECTS\2022\ **E1.11**



ELECTRICAL POWER FLOOR PLAN 1/4" = 1'-0"
 0 5' 10'

TO THE BEST OF THE ENGINEER'S KNOWLEDGE, SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS AS DETERMINED IN ACCORDANCE WITH CHAPTERS 553 AND 633, FLORIDA STATUTES © 2022, CRAWFORD WILLIAMS ENGINEERING, INC.



LIGHTING + SWITCH SYMBOL LEGEND table with columns for SYMBOL, DESCRIPTION, and COMMENT

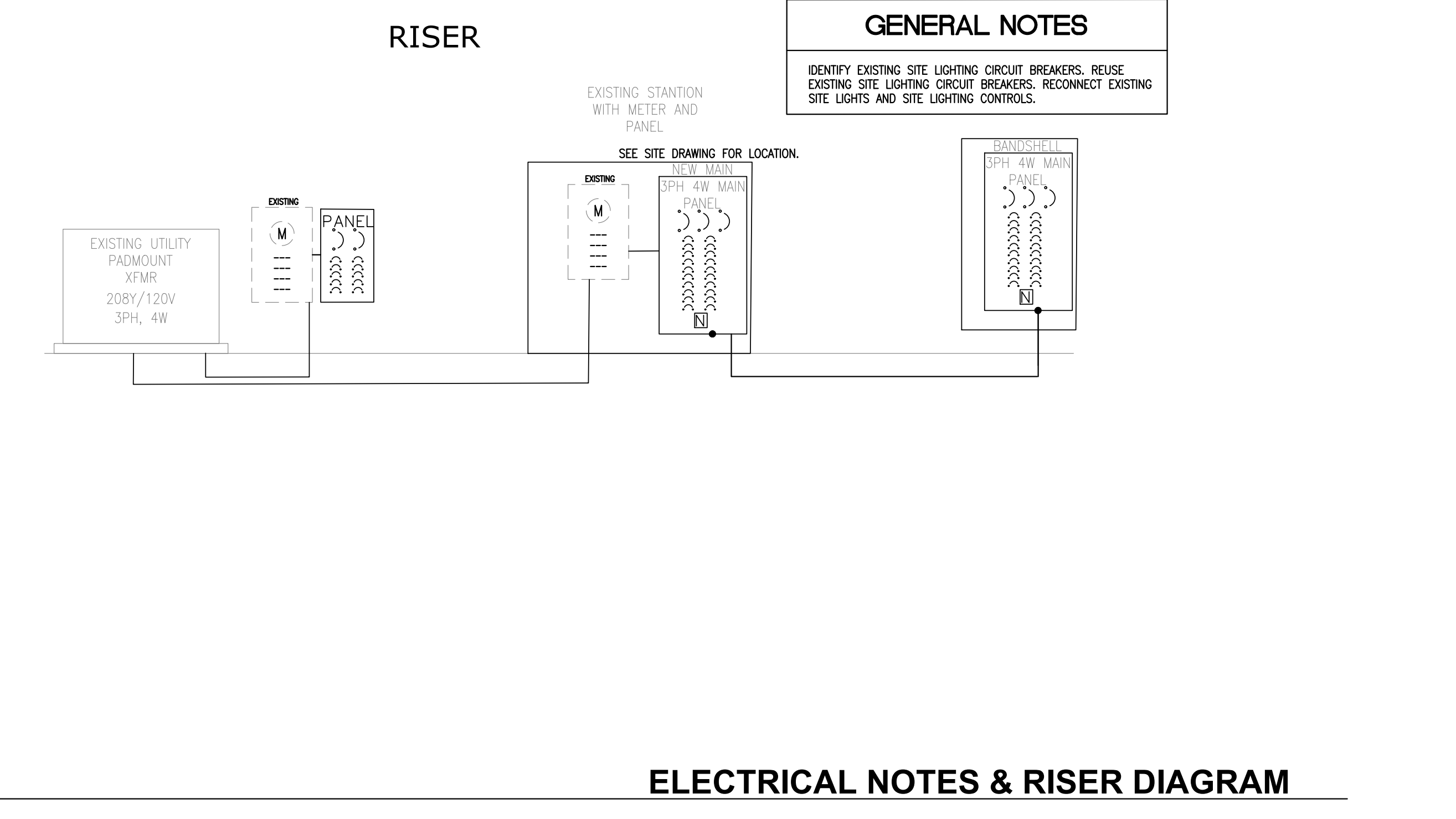
- ELECTRICAL GENERAL NOTES 1-21 detailing drawing standards, equipment coordination, and safety requirements

PANELBOARD SCHEDULE table with columns for CKT NO., LOAD DESCRIPTION, LOAD CODE, CONN. KVA, BREAKER AMPS, POLE, CONN. LOAD A/B, BREAKER AMPS, POLE, CONN. KVA, LOAD CODE, LOAD DESCRIPTION, and CKT NO.

- ELECTRICAL RISER KEY NOTES 1-7 detailing bonding, grounding, and conductor requirements

RECEPTACLE, DATA + TELEVISION SYMBOL LEGEND table with columns for SYMBOL, DESCRIPTION, and COMMENT

ELECTRICAL FEEDER/WIRE LEGEND table with columns for O.C.P.D. AMPERE RATING, SYMBOL, and DESCRIPTION



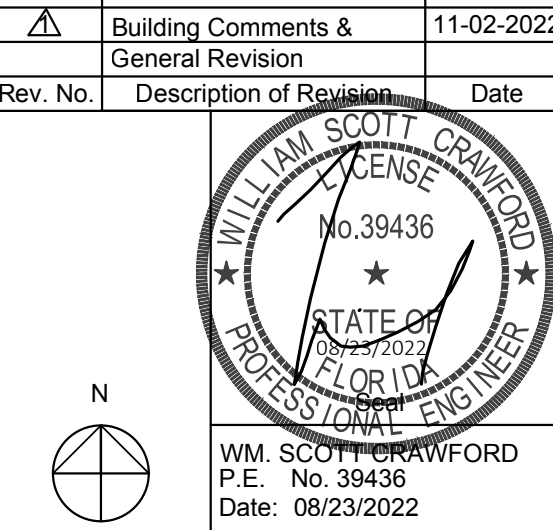
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CLIENT: TOWN OF LONGBOAT KEY
GENERAL CONTRACTOR: TBD
CIVIL ENGINEER: DMK ASSOCIATES
LANDSCAPE ARCHITECT: DWJA LANDSCAPE ARCHITECT
STRUCTURAL ENGINEER: BNI ENGINEERS
MEPF ENGINEER: CRAWFORD WILLIAMS ENGINEERING, INC.

Karon Family Pavilion
Longboat Key Town Center Park
501 Bay Isle Road
Longboat Key, FL 34228

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Building Comments & General Revision table with columns for Rev. No., Description of Revision, and Date



ELECTRICAL NOTES & RISER

Summary table with columns for Date, Project No., Sheet, Office File Location, and S:\PROJECTS\2022\ E2.00

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- 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 AGRICULTURE.
- 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.
- CONTRACTORS ARE ADVISED TO REFER TO THE SPECIFICATIONS, CONTRACT DOCUMENTS, AND PLAN SHEETS FOR A MORE DETAILED DISCLOSURE OF PERFORMANCE STANDARDS AND REQUIREMENTS.
- 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.
- 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.
- 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.
- 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.
- MULCH ALL NEW PLANTING WITH MIN. 3" (OR AS NOTED OTHERWISE ON PLAN) OF COCOA BROWN MULCH OR SIMILAR SUSTAINABLY HARVESTED MULCH.
- 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.
- 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.
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL EXISTING SOD, DEBRIS, WEEDS, AND HANDWORK UNDER EXISTING TREES IN PREPARATION FOR ANY PLANTING.
- CONTRACTOR SHALL REPAIR ANY AREAS DISTURBED DURING THE COMPLETION OF WORK INCLUDING RESODDING OF IRRIGATION TRENCHES AND PLANTING PITS RESULTING FROM MATERIAL RELOCATIONS.
- 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
- CONTRACTOR SHALL STAKE ALL TREES AS PER DETAILS.
- ALL PLANT MATERIAL SHALL BE FERTILIZED ACCORDING TO THE FERTILIZATION CHART.
- 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.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS PRIOR TO COMMENCING ANY WORK.
- THE 90-DAY MAINTENANCE PERIOD SHALL BEGIN ONCE SUBSTANTIAL COMPLETION HAS BEEN MADE AND AGREED TO BY THE OWNER.
- FINAL ACCEPTANCE WILL OCCUR AFTER THE OWNER HAS ACCEPTED THE JOB AFTER THE 90-DAY MAINTENANCE PERIOD.
- AN AUTOMATIC IRRIGATION SYSTEM WILL BE INSTALLED TO PROVIDE 100% COVERAGE ON ALL NEW PLANT MATERIAL.
- 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:**
- 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.
- PLANTING:**
- 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.
 - RESTORE PLANTING SAUCERS, TIGHTEN AND REPAIR STAKES, RESET TREES OR PALMS TO PROPER GRADE OR VERTICAL POSITION AS REQUIRED.
 - SPRAY MATERIAL AS REQUIRED TO KEEP FREE FROM INSECTS AND DISEASE.
- IRRIGATION:**
- MAINTAIN THE INSTALLED IRRIGATION SYSTEM IN AN OPERABLE CONDITION AT ALL TIMES.
 - CHECK FOR LINE BREAKS AND CLEAN BUBBLERS OF DEBRIS SO THAT THEY PROVIDE UNIFORM WATER DISTRIBUTION AT ALL TIMES.
- REPORTS:**
- 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 1001 YOSEMITE DRIVE MILPITAS, CA 95035

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

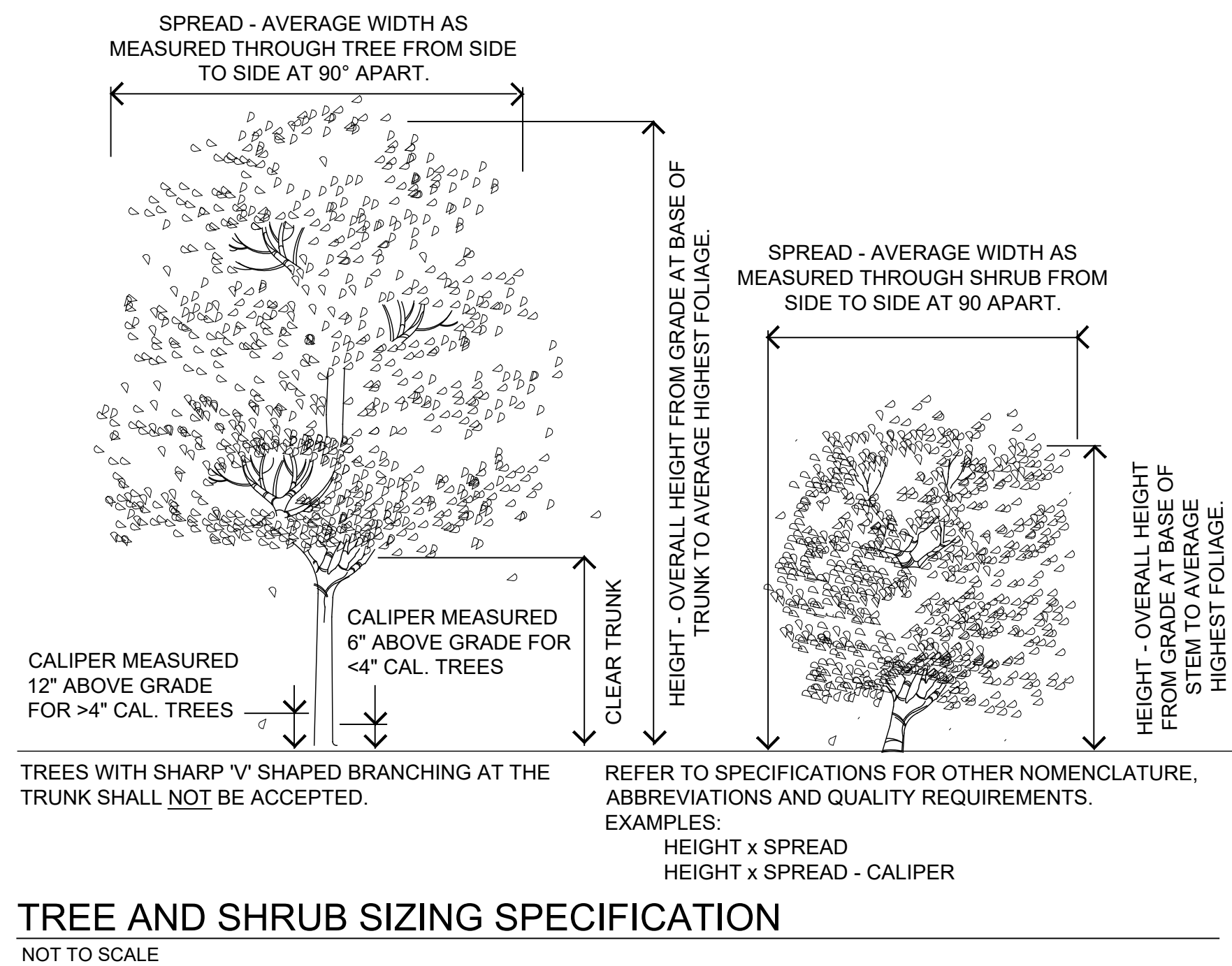
IMPORTANT NOTE:

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

- DIG HOLE.
- SPRINKLE SPECIAL AMENDMENTS EVENLY OVER BACKFILL SOIL NEXT TO HOLE SO THAT THEY WILL THOROUGHLY MIX WITH SOIL DURING BACKFILLING OPERATIONS.
- BACKFILL WITH 4" OF SOIL AND PREPARE SHELF FOR ROOTBALL TO SET ONTO.
- PLACE ROOTBALL IN HOLE AND STRAIGHTEN TREE.
- BACKFILL 25% OF DEPTH. WATER AND TAMP IN WHILE MAINTAINING THE STRAIGHTENED TREE.
- BACKFILL TO 50% DEPTH. WATER AND TAMP IN WHILE MAINTAINING THE STRAIGHTENED TREE.
- BACKFILL TO 75% DEPTH. WATER AND TAMP IN WHILE MAINTAINING THE STRAIGHTENED TREE.
- 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.



CALL 48 HOURS BEFORE YOU DIG

811

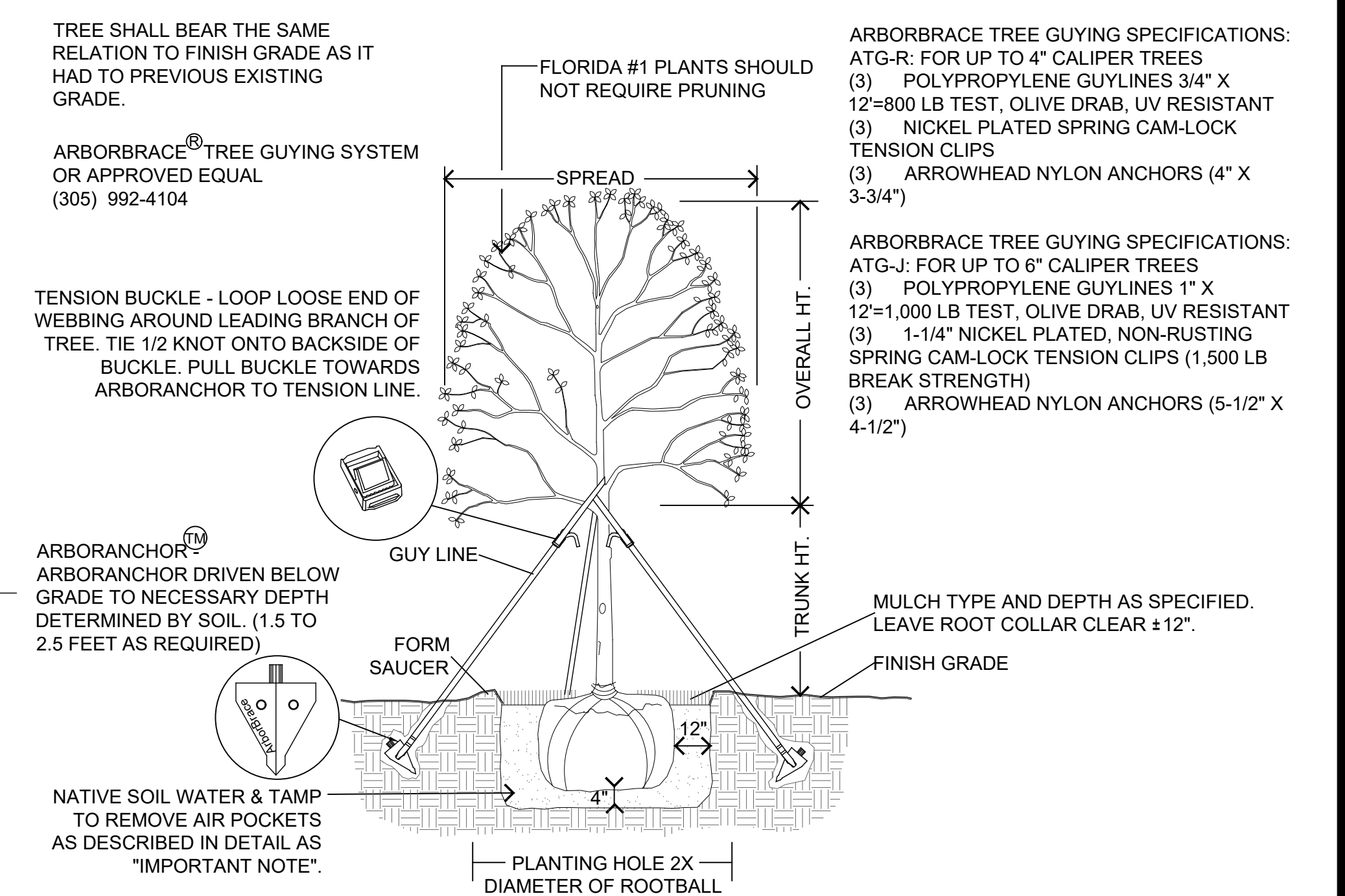
IT'S THE LAW! DIAL 811

Know what's below. Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

- NOTE:**
- 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.
 - 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.
 - 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
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. #1896

dwja LANDSCAPE ARCHITECTS

DAVID W. JOHNSTON ASSOCIATES

630 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 366-3159

SHEET NO.

L - 02

DIVISION 2 - SITE WORK SECTION 0221 FINISH GRADING

I. GENERAL

1. SCOPE

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

A. 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.

B. 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.

C. 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.

D. 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.

E. 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.

F. 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.

G. 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.

H. IF PLANTING AND MULCHING IS NOT COMMENCED IMMEDIATELY, PROTECT STOCKPILED OR SPREAD TOPSOIL FROM EROSION BY FORCE OF WIND, WATER, OR OTHER FORCE, RE-ESTABLISH ERODED, RUTTED, OR SETTLED GRADES TO PROPER FINISHED GRADE.

I. 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.

J. ALL 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. INSPECTION

A. 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.

2. APPROVAL

A. 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 ESTABLISHED.

END SECTION 2-0221

DIVISION 2 - SITE WORK SECTION 0270 LANDSCAPE - GENERAL

I. SCOPE

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 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.

II. INVESTIGATION OF SITE

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 UNDERTAKEN AND 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 SATISFACTORY 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 CONTRACTORS 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 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

I. GENERAL

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 REDEVELOPED 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 IN ITS PLACE.

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. 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. DAMAGE TO OTHER WORK: 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 BY RAKING.

10. THE CONTRACTOR SHALL 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
c.l. CLEAR TRUNK
c.l. (S) CLEAR TRUNK (S)
D.O. DOUBLE
O.A. OVER ALL HEIGHT & WIDTH THE SAME
O.A.H. OVER ALL HEIGHT
sp. SPREAD
stms. STEMS
STG. HTS. STAGGERED HEIGHTS
HD. (S) HEAD (S)
std. STANDARD
f.o.w. FAN ON WALL *
f.o.f. FAN ON FENCE *
tks. TRUNKS
esp. ESPALIER
r.c. ROOTED CUTTINGS
u.r.c. UN-ROOTED CUTTINGS
o.c. 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.

11. COMPLETION AND ACCEPTANCE

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: 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 MATERIAL, WORKMANSHIP, LABOR AND COMPLIANCE WITH THE SPECIFICATIONS, STANDARDS AND REGULATIONS OF THE LANDSCAPE ARCHITECT, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE 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, DEDICATED 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 CONTRACTORS 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 CONTRACT 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 QUANTITY 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 MYRTICA 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 CONTRACTORS 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 SECTION 0281 TOPSOIL AND FERTILIZERS

I. 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 RESIDUES, TARBALLS, STAKES, CLIPS, STAKES 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, BEDGE ROWS AND ALL TREE LOCATIONS LESS THAN 6" PER HOUR THE DRAINAGE CONTAINER SHALL INSTALLED WITH DRAINAGE AT 6" PER HOUR). THERE SHALL BE A MINIMUM OF 6" DIAMETER, SHALL BE 36" DEEP OR DEEP 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 SHREDED AND FREEM 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 COMMERCIALY NATURAL ORGANIC FERTILIZER 6-3-0 (ACTIVE SLUDGE), SUCH AS MILORGANTIC, 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 EACH LOAD:

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 MILORGANTIC 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 PASS THROUGH A MESH SIEVE.

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 FINISHED 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

I. GENERAL

1. 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. SOD:

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 LAKEH 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 SOD IS CUT.

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.

2. THICKNESS OF CUT: SOD SHALL BE MACHINE CUT TO 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.

5. MOISTURE CONTENT: SOD SHALL NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY OR WET) MAY ADVERSELY AFFECT ITS SURVIVAL.

6. TIME LIMITATIONS: SOD SHALL BE HARVESTED, DELIVERED AND INSTALLED WITHIN A PERIOD OF FORTY EIGHT (48) HOURS. SOD NOT TRANSPORTED WITHIN THIS PERIOD SHALL BE INSPECTED PRIOR TO ITS INSTALLATION.

2. SEED:

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.

III. EXECUTION

1. CLEAN UP: PRIOR TO SEEDING OR SODDING, THE SURFACE SHALL BE CLEARED OF ALL TRASH, DEBRIS AND STONES LARGER THAN ONE INCH (1") OF ALL ROOTS, BRUSH, WIRE, GRADE STAKES AND OTHER OBJECTS THAT WOULD INTERFERE WITH PLANTING OR MAINTENANCE OPERATIONS.

1. THE CONTRACTOR SHALL VERIFY GRADES ESTABLISHED DURING FINAL SOIL PREPARATION AS BEING TRUE TO FINISH CONTOURS SHOWN, AND SHALL MAINTAIN SUCH AREAS AS SUCH THROUGHOUT 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.

2. 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 DRYING OF THE ROOTS.

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") TO 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

DIVISION 2 - SITE WORK SECTION 0282 LAWNS - CONTINUED

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REVISIONS

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

PROJECT NO. 2021-27

SCALE AS NOTED

DATE 05-03-2021

DRAWN BY JA

ISSUED 05-04-2021

PLANTING SPECIFICATIONS

PHILLIP J. SMITH, R.L.A. #1896

dwja LANDSCAPE ARCHITECTS

DAVID W. JOHNSTON ASSOCIATES

630 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 366-3159

SHEET NO. L - 03

ASAD 01/20

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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 SATISFACTORY 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 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 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.

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 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.

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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 AREAS.

END SECTION 2-0282

DIVISION 2 - SITE WORK
SECTION 0283
PLANTING

I. GENERAL

1. 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.
2. 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 FULLFILL 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.

III. EXECUTION

1. DIGGING AND MOVING:
 1. 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.
 2. 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.
 3. 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:
 1. 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.
3. 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:
 1. 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:
 1. 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 INFERRABLE 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 PRESENTATION 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. ELEMENTAL SULPHUR PER 1000 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. ROTOTILL 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

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
1	REV. PER TLBK	08-16-2021	bjk	** REVISION 1 - BLDG. COMMENTS & GENERAL REVISIONS 11-02-2022
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
PHILLIP J. SMITH, R.L.A. #1896

dwja
LANDSCAPE ARCHITECTS
DAVID W. JOHNSTON ASSOCIATES
630 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 366-3159

SHEET NO.
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IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter MP Corner PROS-06-PRS40-CV-F Turf Rotator, 6" pop-up with factory installed check valve, foguard, pressure regulated to 40 psi, MP Rotator nozzle on PRS40 body. T=Turquoise adj arc 45-105.
	Hunter MP Strip PROS-06-PRS40-CV-F Turf Rotator, 6" pop-up with factory installed check valve, foguard, pressure regulated to 40 psi, MP Rotator nozzle on PRS40 body. LST=Ivory left strip, SST=Brown side strip, RST=Copper right strip.
	Hunter MP1000 PROS-06-PRS40-CV-F Turf Rotator, 6" pop-up with check valve, foguard, pressure regulated to 40 psi, MP Rotator nozzle on PRS40 body. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.
	Hunter MP2000 PROS-06-PRS40-CV-F Turf Rotator, 6" pop-up with factory installed check valve, foguard, pressure regulated to 40 psi, MP Rotator nozzle on PRS40 body. K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc.
	Hunter MP3000 PROS-06-PRS40-CV-F Turf Rotator, 6" pop-up with factory installed check valve, foguard, pressure regulated to 40 psi, MP Rotator nozzle on PRS40 body. B=Blue adj arc 90-210, Y=Yellow adj arc 210-270, A=Gray 360 arc.
	Hunter MP900SR PROS-06-PRS40-CV-F Turf Rotator, 6.0" pop-up with check valve, foguard, pressure regulated to 40 psi, MP Rotator nozzle on PRS40 body. ADJ=Orange and Gray (arc 90-210), 360=Lime Green and Gray (arc 360)

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter I-20-06 Turf Rotor, 6.0" Pop-Up, Adjustable and Full Circle. Plastic Riser. Drain Check Valve. Standard Nozzle.
	Hunter I-20-06 Turf Rotor, 6.0" Pop-Up, Adjustable and Full Circle. Plastic Riser. Drain Check Valve. Standard Nozzle.
	Hunter I-20-06 Turf Rotor, 6.0" Pop-Up, Adjustable and Full Circle. Plastic Riser. Drain Check Valve. Standard Nozzle.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter PGV-101A 1" Plastic Electric Remote Control Valve, for Residential/Light Commercial Use. Female NPT Inlet/Outlet. Angle Configuration, With Flow Control.
	Hunter PGV-151-AS, 201-AS 1-1/2" Electric Remote Control Valve, plastic globe/angle valve, flow control, Accu-Set pressure regulator.
	Matco-Norca 200MD 3" Mechanical Joint, Epoxy Coated, & Resilient Wedge Isolation Shut Off Valve. Same size as mainline pipe.
	Hunter HCC-1600-PL 16 Station Outdoor Wi-Fi enabled, full-functioning controller with touchscreen & one ICM-800 Module. Commercial Use. Plastic Cabinet.
	Hunter WR-CLIK Rain Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 100 mA power from timer transformer. Mount as noted.
	Existing Well

	Irrigation Lateral Line: PVC Class 160 SDR 26
	Irrigation Lateral Line: PVC Class 200
	Irrigation Mainline: PVC Class 200 SDR 21
	Pipe Sleeve: PVC Schedule 40
	Valve Cutout
	Valve Number
	Valve Flow
	Valve Size

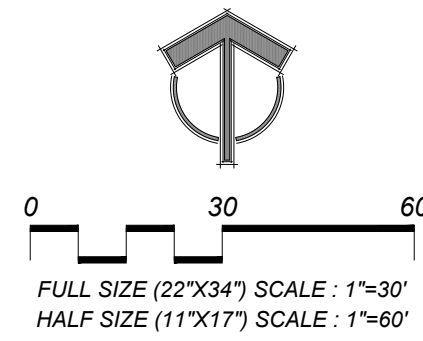
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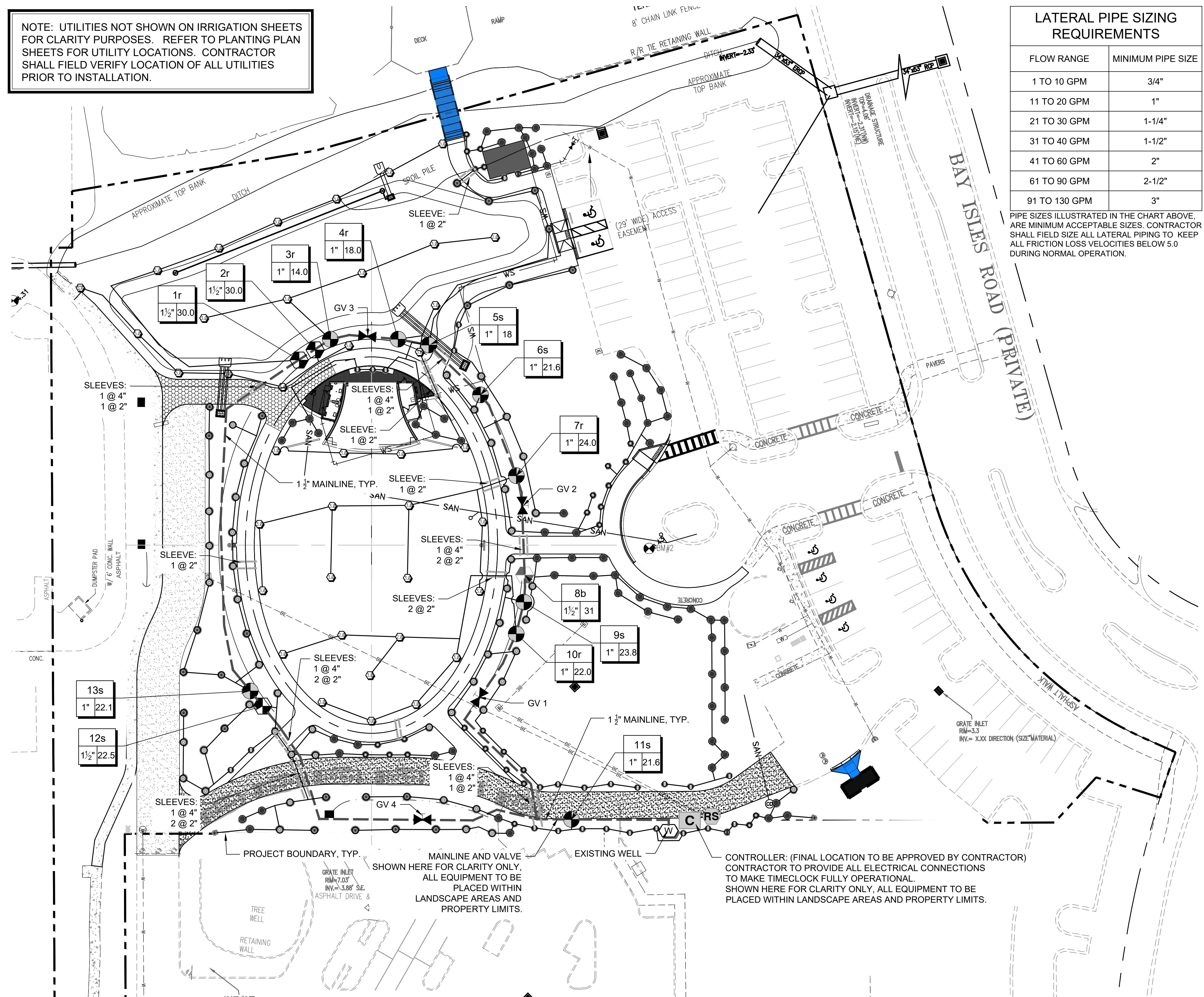
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SUNSHINE STATE ONE CALL OF FLORIDA, INC.



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.

PROJECT BOUNDARY, TYP. SHOWN HERE FOR CLARITY ONLY, ALL EQUIPMENT TO BE PLACED WITHIN LANDSCAPE AREAS AND PROPERTY LIMITS.

CONTROLLER: (FINAL LOCATION TO BE APPROVED BY CONTRACTOR) CONTRACTOR TO PROVIDE ALL ELECTRICAL CONNECTIONS TO MAKE TIMECLOCK FULLY OPERATIONAL. SHOWN HERE FOR CLARITY ONLY, ALL EQUIPMENT TO BE PLACED WITHIN LANDSCAPE AREAS AND PROPERTY LIMITS.

SITE DEVELOPMENT PLANS FOR

TOWN CENTER IMPROVEMENTS - OUTDOOR VENUE

TOWN OF LONGBOAT KEY, FL

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3	REV. PER CIVIL	11-08-2021	KJ		
4	REV. PER CIVIL	03-31-2022	KJ		

IRRIGATION PLAN - SPRAY

PHILLIP J. SMITH, R.L.A. #1896

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630 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 366-3159

SHEET NO.

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IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter PCB 10 Flood Bubbler, 1/2" FIPT.
	Hunter PGV-101A 1" Plastic Electric Remote Control Valve, for Residential/Light Commercial Use. Female NPT Inlet/Outlet. Angle Configuration, With Flow Control.
	Hunter PGV-151-AS, 201-AS 1-1/2" Electric Remote Control Valve, plastic globe/angle valve, flow control, Accu-Set pressure regulator.
	Matco-Norca 200MD 3" Mechanical Joint, Epoxy Coated, & Resilient Wedge Isolation Shut Off Valve. Same size as mainline pipe.
	Hunter HCC-1600-PL 16 Station Outdoor Wi-Fi enabled, full-functioning controller with touchscreen & one ICM-800 Module. Commercial Use. Plastic Cabinet.
	Hunter WR-CLIK Rain Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 100 mA power from timer transformer. Mount as noted.
	Existing Well
	Irrigation Lateral Line: PVC Class 160 SDR 26
	Irrigation Mainline: PVC Class 200 SDR 21
	Pipe Sleeve: PVC Schedule 40
	Valve Callout
	Valve Number
	Valve Flow
	Valve Size

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"
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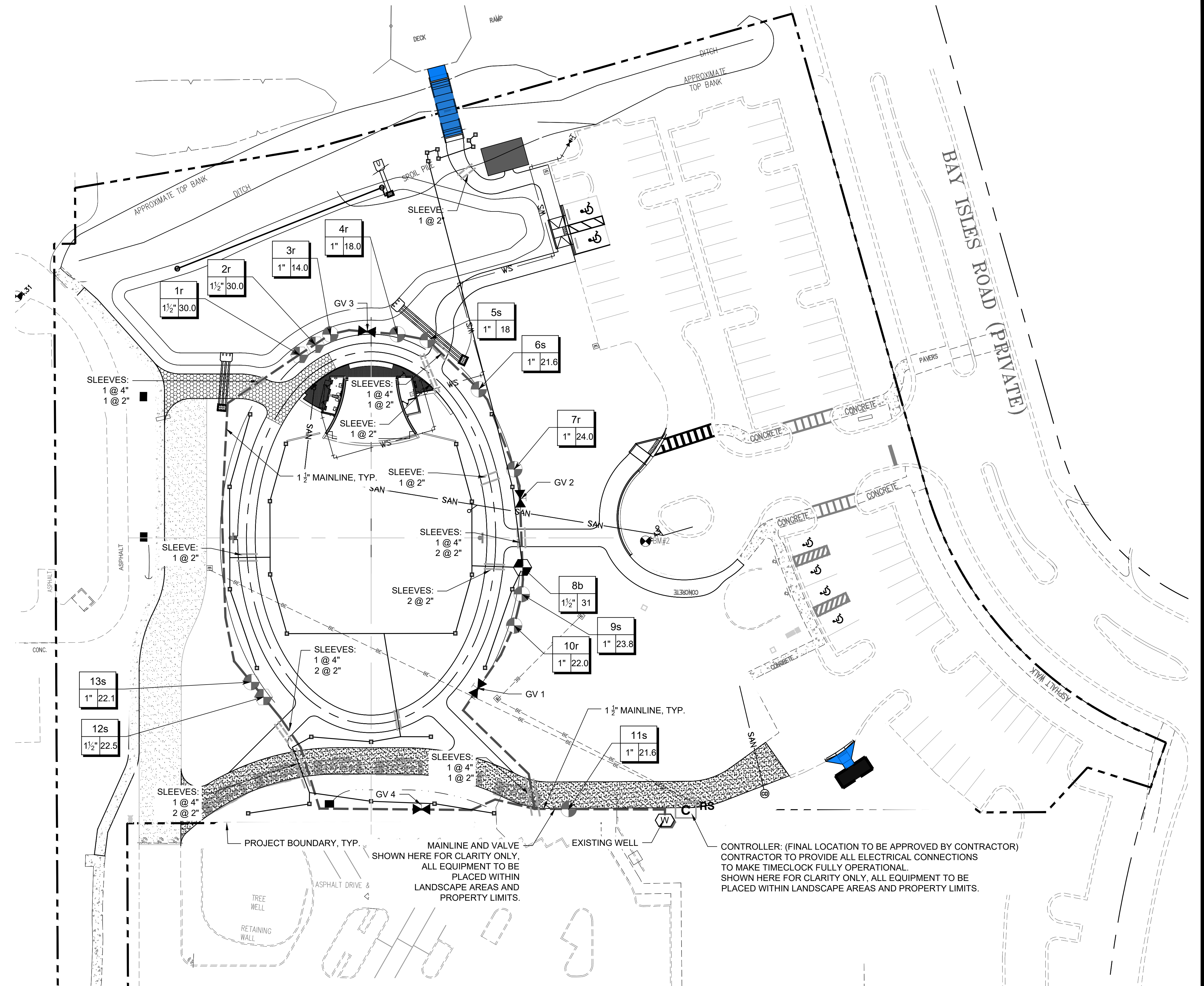
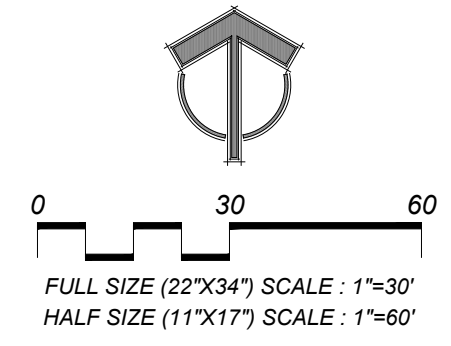
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SITE DEVELOPMENT PLANS FOR

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IRRIGATION PLAN - BUBBLER

PHILLIP J. SMITH, R.L.A. #1896

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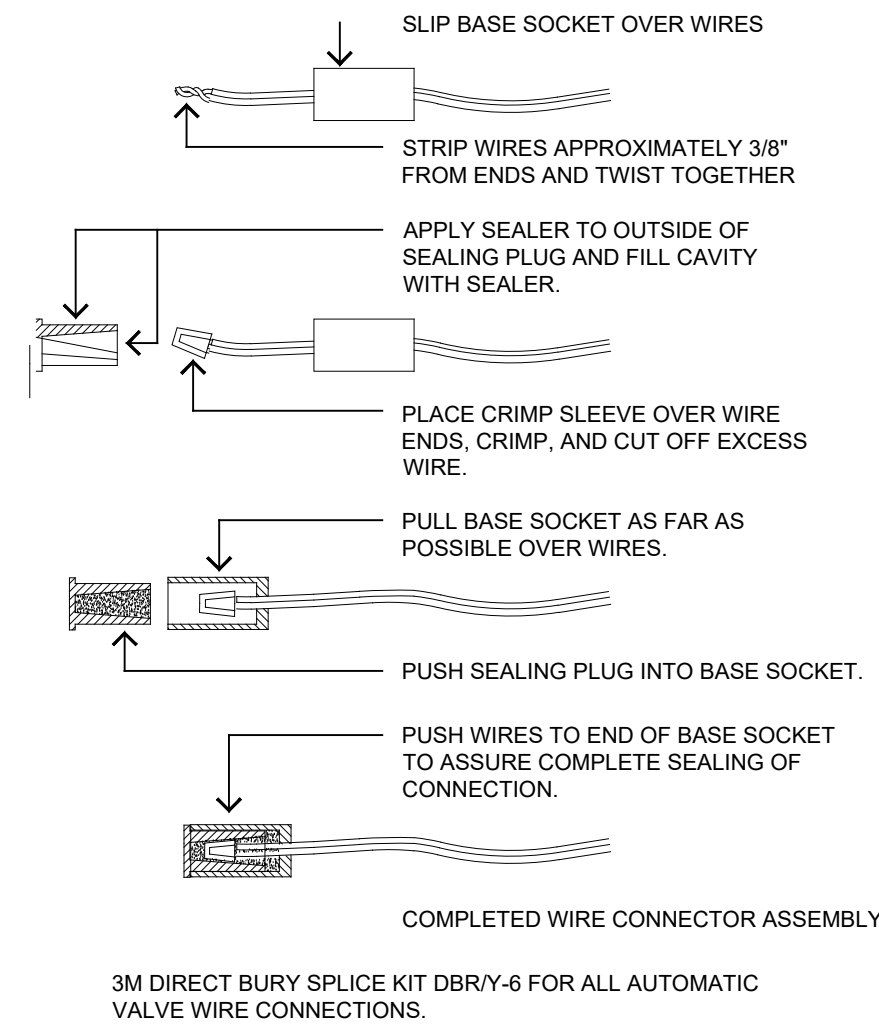
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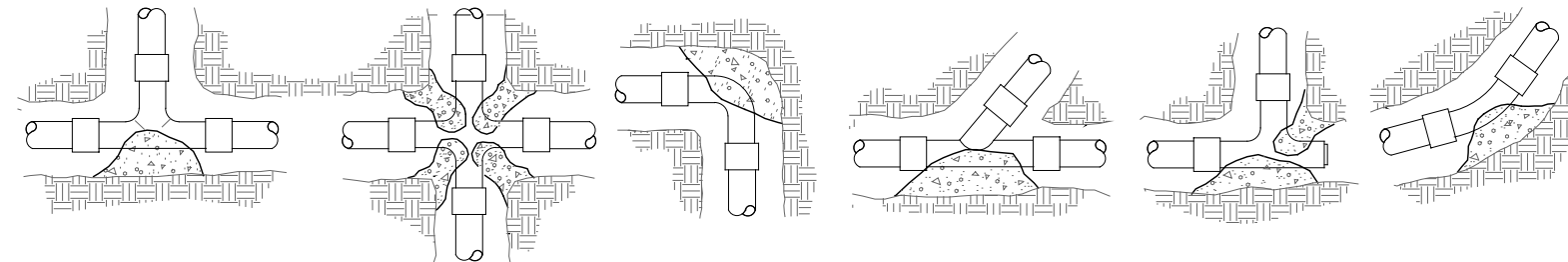
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IRRIGATION NOTES:

- 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 #115BC.
- 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.
- 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.
- THE IRRIGATION CONTRACTOR SHALL BE DIRECTLY RESPONSIBLE FOR ALL SLEEVING AND DIRECTIONAL BORES.
- ALL IRRIGATION HEADS SHALL BE LOCATED 2 FEET FROM BACK OF PAVEMENT EDGE (SIDEWALK, EDGE OF PAVEMENT OR CURB).
- 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.
- ALL UNSIZED PIPE SHALL BE 3/4" UNLESS OTHERWISE NOTED.
- 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.
- 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.
- ALL 24 VAC WIRING SHALL BE UF DIRECT BURIAL COPPER WIRE AS FOLLOWS:
PULSE WIRES - #14
COMMON WIRES - #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.
- VALVES SHALL BE WIRED TO CONTROLLER STATION NUMBERS AS PER THE IRRIGATION PLAN DURING INSTALLATION AND UPON COMPLETION OF THE IRRIGATION SYSTEM PROGRAM.
- NOT USED**
- CONTRACTORS ARE ADVISED TO REFER TO THE SPECIFICATIONS, CONTRACT DOCUMENTS, AND PLAN SHEETS FOR A MORE DETAILED DISCLOSURE OF PERFORMANCE STANDARDS AND REQUIREMENTS.
- 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.
- 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:
 $L = (S \times D \times X \times P) / 133200$
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 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.
- 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.



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.

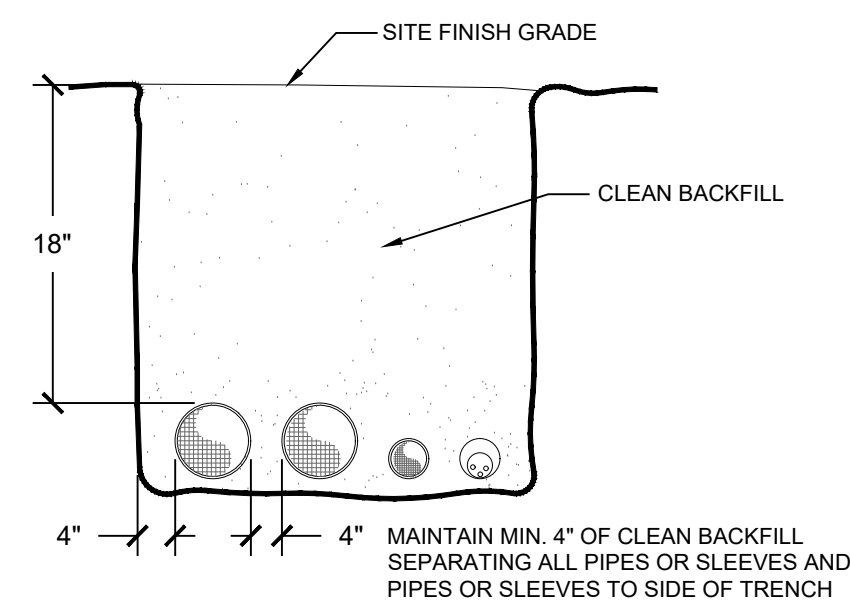
THRUST BLOCK SHALL BEAR AGAINST UNDISTURBED EARTH AND IN CASE THIS IS NOT POSSIBLE, THEY SHALL BE MADE CORRESPONDINGLY LARGER.

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 EASILY. 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.

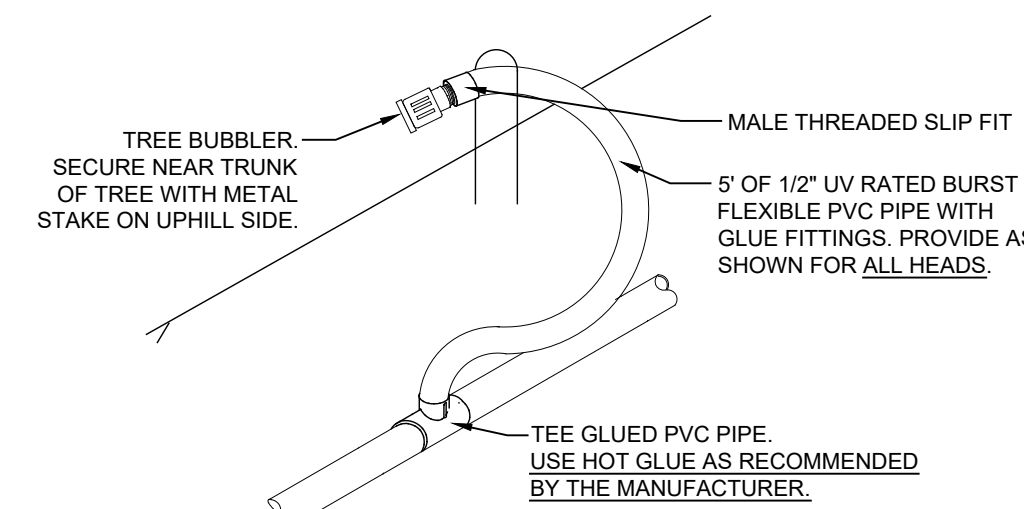
THRUST BLOCKS SHALL BE INSPECTED PRIOR TO BACKFILLING.

THRUST BLOCKING
NOT TO SCALE

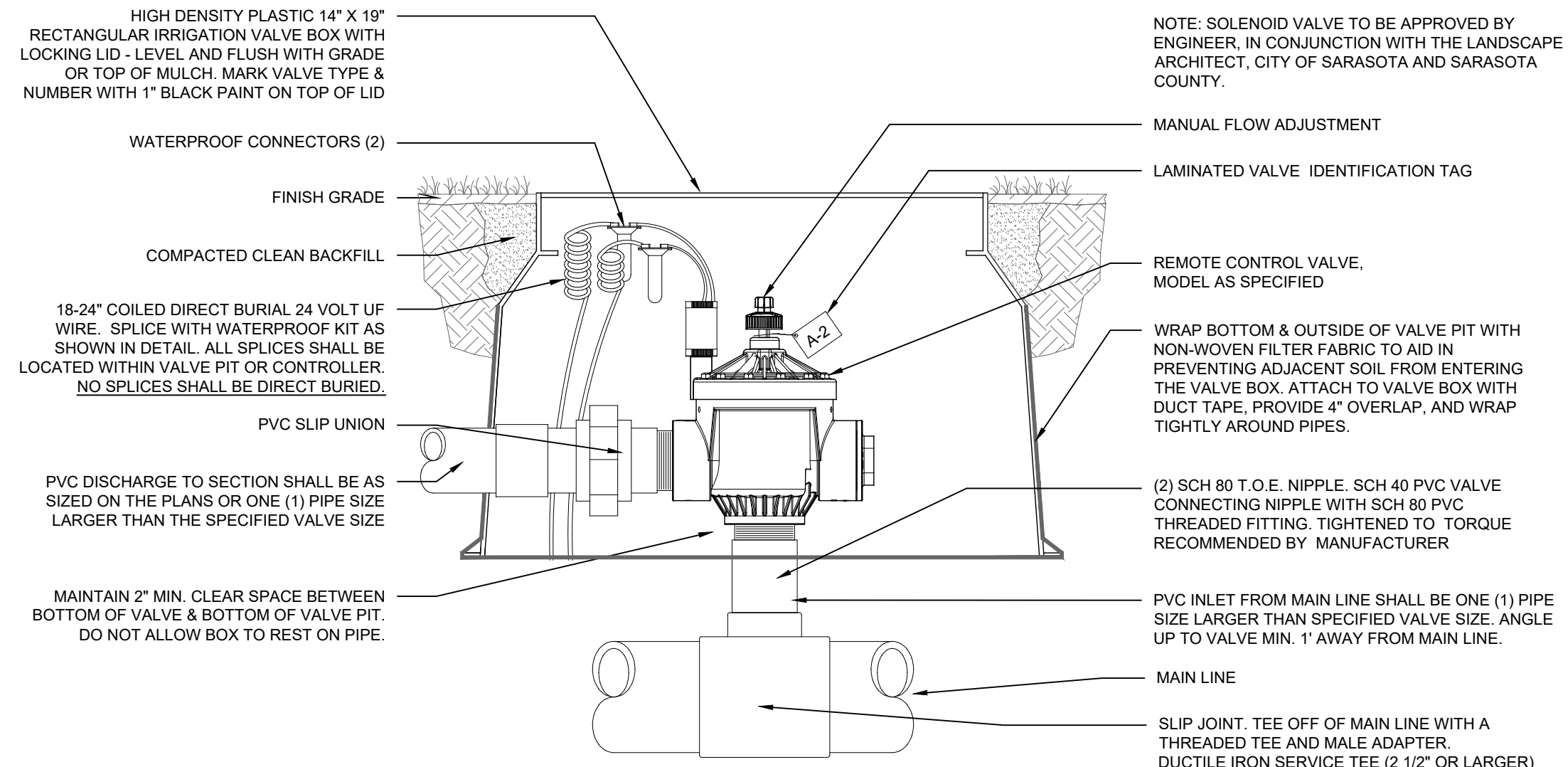


SET TOP OF PIPES OR SLEEVES 36" BELOW SITE FINISH GRADE. BACKFILL TRENCH WITH CLEAN FILL MATERIAL FREE OF ORGANIC MATERIAL AND ROCK.

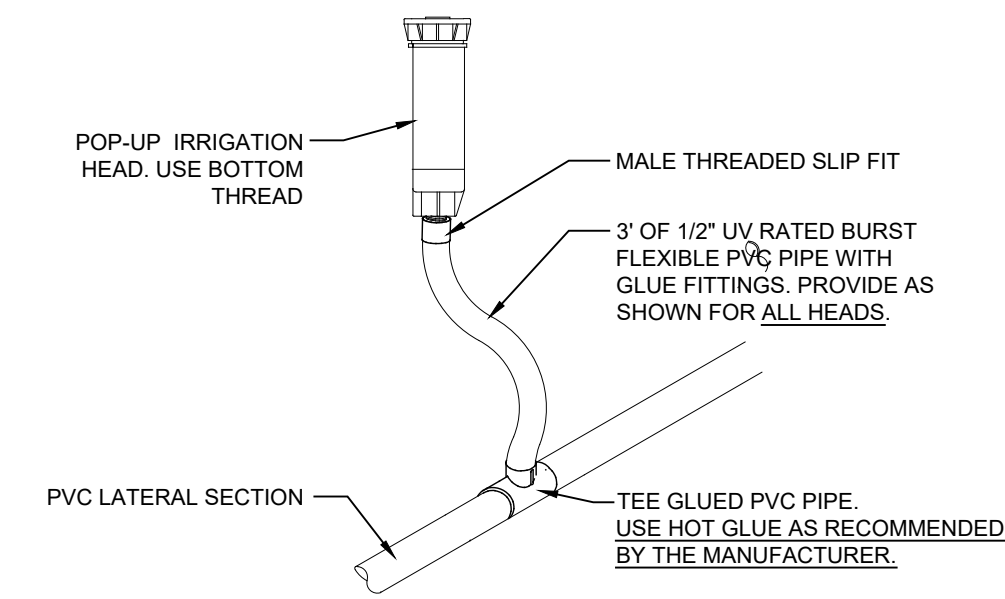
TRENCH DETAIL
NOT TO SCALE



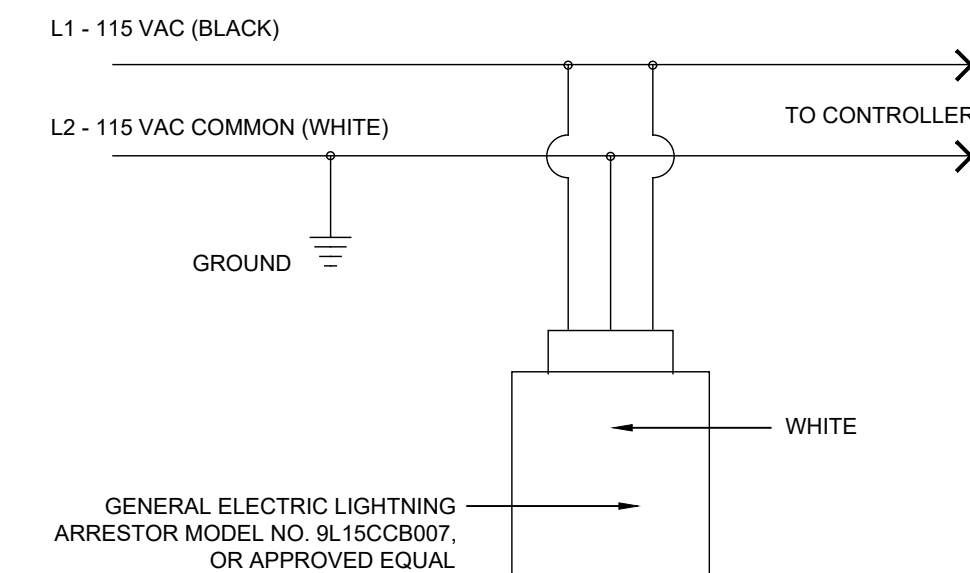
TREE BUBBLER
NOT TO SCALE



TYPICAL ANGLE AUTOMATIC VALVE
NOT TO SCALE



TYP. POP-UP INSTALLATION
NOT TO SCALE



PROVIDE & INSTALL ONE (1) LIGHTNING ARRESTOR WITHIN EACH 115 VAC POWER SUPPLY CIRCUIT FOR CONTROLLERS.

LIGHTNING ARRESTOR DETAIL
NOT TO SCALE

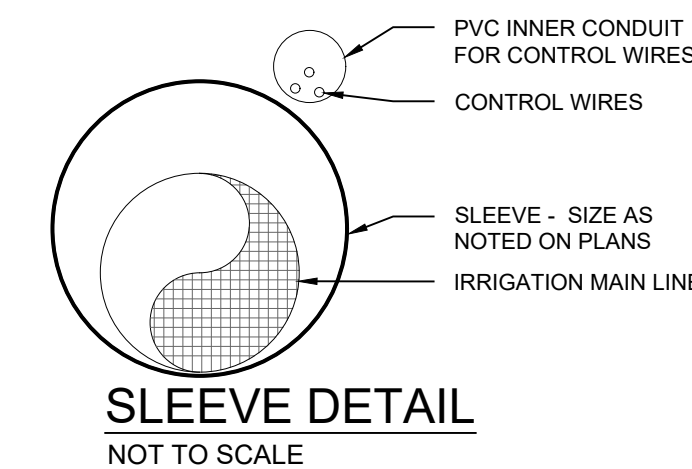
CALL 48 HOURS BEFORE YOU DIG

811

IT'S THE LAW! DIAL 811

Know what's below. Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.



- NOTES:
- ALL SLEEVES SHALL BE SCH. 40 PVC WITH ALL JOINTS SOLVENT WELDED.
 - EXTEND SLEEVES 36" BEYOND THE OUTSIDE EDGE OF PAVEMENT OR BACK OF CURB. STAKE EACH END OF SLEEVES WITH SURVEYORS LATH MARKED "IRRIIG SLEEVES".
 - PVC WIRE CONDUIT SHALL BE ONE CONTINUOUS RUN LENGTH FOR RUNS LESS THAN 20' RUNS OF GREATER THAN 20' SHALL HAVE SOLVENT WELD JOINTS.

SLEEVE DETAIL
NOT TO SCALE

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	bjk	** 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 DETAILS

PHILLIP J. SMITH, R.L.A. #1896

dwja LANDSCAPE ARCHITECTS

DAVID W. JOHNSTON ASSOCIATES

630 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 366-3159

SHEET NO.

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IRRIGATION SYSTEM

I. GENERAL

- 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.
- 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.
- 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.
- 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 IMPED 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.
- STAKING AND LAYOUT:
 - IT IS TO BE RECOGNIZED, DUE TO THE ARTISTIC NATURE OF LANDSCAPE PLANTING DESIGN AND CONSTRUCTION, THAT THE LANDSCAPE PLANTINGS 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.

- 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.
- 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.
- 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:

- 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 TIMES.
- 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.
- 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 MANUFACTURERS MAINTENANCE AND OPERATING INSTRUCTIONS FOR ALL VALVES, SPRINKLERS AND OTHER EQUIPMENT INSTALLED.

- 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.
 QCV: 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

- 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.
- PVC PIPE AND FITTINGS:
 - 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"
 - 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.
 - 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 SDR 26.
- 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, ASSEMBLED 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.
- 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.
- VALVE CONTROL LINES:
 - 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 WITH IT.
 - SPRINKLER HEADS, CONTROLLERS, AUTOMATIC VALVES: SHALL BE AS CALLED FOR ON THE IRRIGATION PLAN OR APPROVED EQUAL.
 - 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.
 - GATE VALVES:
 - 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.
 - PROVIDE TWO (2) GATE VALVE KEYS.
 - GATE VALVES AT LINE SIZE SHALL BE LOCATED AS SHOWN ON THE CONTRACT DRAWINGS.
 - 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.
 - MISCELLANEOUS SYSTEM COMPONENTS: ALL MISCELLANEOUS SYSTEM COMPONENTS SHALL BE OF THE TYPE AND SIZE AS INDICATED ON THE IRRIGATION DESIGN PLAN AND DETAIL DRAWINGS.
 - 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 #1148C FOR GREEN.

- THURST BLOCKS:
 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.
 - 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.
 - 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 FLOURED IN 3,000 PSI CONCRETE. THE FINAL PATCH SHALL BE MADE TO MATCH THE GRADE AND MATERIAL OF THE ADJACENT FINISH ROAD OR DRIVE.
- 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.
- 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.
- 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 AREAS SHALL BE PAINTED FLAT BLACK WITH A PAINT WHICH ADHERES WELL TO PVC.
- 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.
- 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.

- 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.
- 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

- 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.
- TRENCH EXCAVATION:
 - 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.
 - 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.
 - PIPE SHALL BE PLACED SO THAT BARREL OF PIPE AND COUPLING ARE A MINIMUM OF 2" ABOVE HIGH POINTS OF THE TRENCH BOTTOM.
 - 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 UNACCEPTABLE FOR BEDDING OF PIPE.

- THRUST BLOCKS:
 - 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.
 - 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 FIVE PARTS GRAVEL, MIXED AND PLACED FAIRLY DRY SO THEY MAY BE SHAPED EASILY. NO PRECAST UNITS SHALL BE USED.
- GATE VALVES:
 - 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.
 - 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.
- BACKFILL:
 - 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.
 - 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.
 - 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 FLOURED IN 3,000 PSI CONCRETE. THE FINAL PATCH SHALL BE MADE TO MATCH THE GRADE AND MATERIAL OF THE ADJACENT FINISH ROAD OR DRIVE.
- 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.
- 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.
- 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 AREAS SHALL BE PAINTED FLAT BLACK WITH A PAINT WHICH ADHERES WELL TO PVC.
- 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.
- 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.

- 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))/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 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

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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	bjk	** 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

PHILLIP J. SMITH, R.L.A. #1896

dwja
LANDSCAPE ARCHITECTS
DAVID W. JOHNSTON ASSOCIATES
630 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 366-3159

CALL 48 HOURS
BEFORE YOU DIG

811

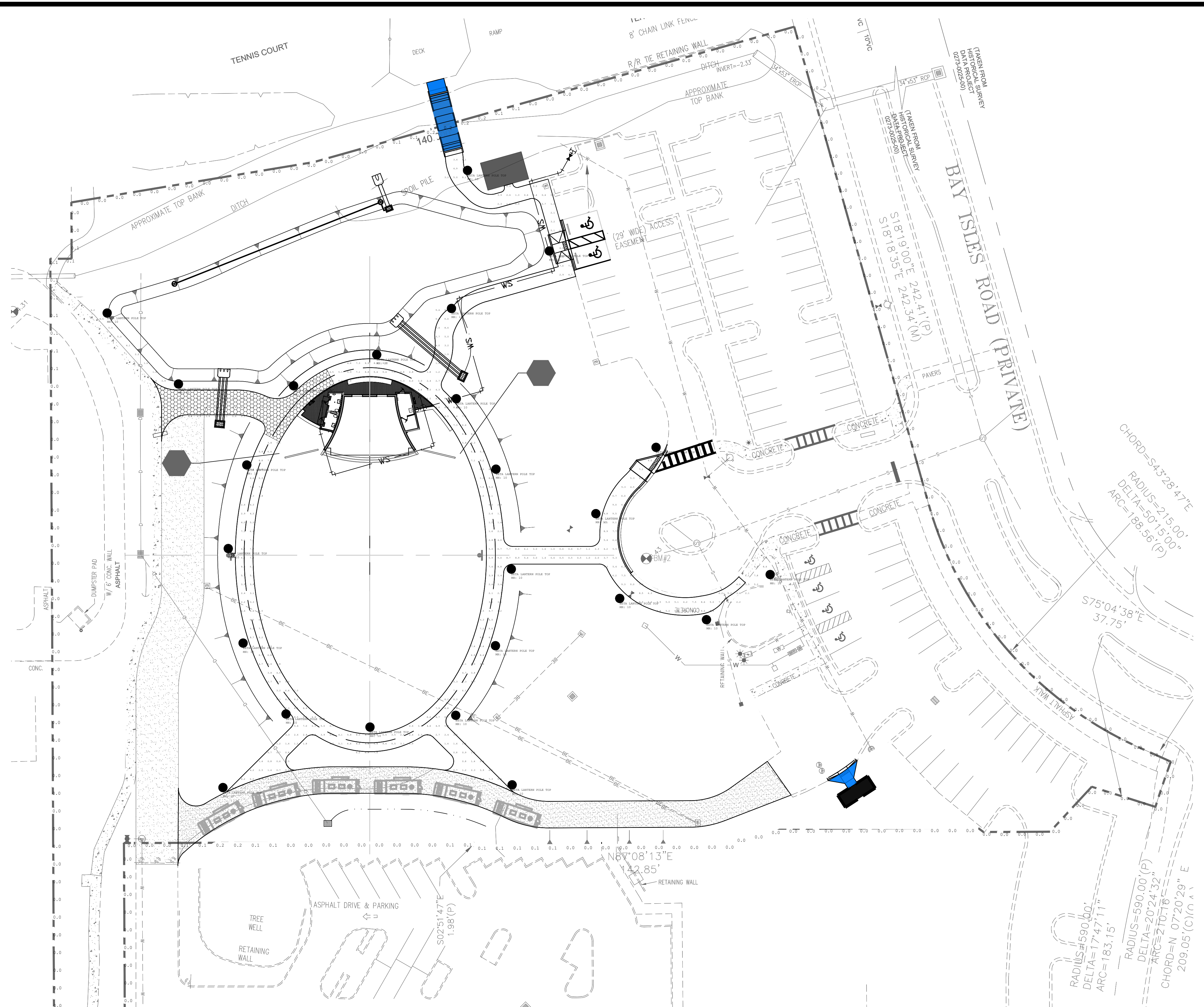
IT'S THE LAW!
DIAL 811

Know what's below.
Call before you dig.

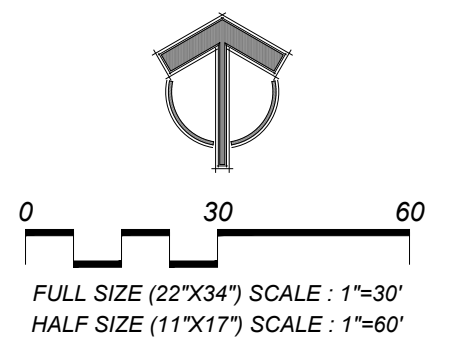
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

SHEET NO.
L - 08

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NOTE: REFER TO SHEET L-10 FOR SCHEDULE



CALL 48 HOURS BEFORE YOU DIG

811

IT'S THE LAW! Know what's below. Dial 811. Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

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 DRAWN BY JA
 ISSUED 05-04-2021

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LIGHTING PHOTOMETRIC PLAN

PHILLIP J. SMITH, R.L.A. #1896

dwja LANDSCAPE ARCHITECTS
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Luminaire Schedule									
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) 643-9845.

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LIGHTING
 SCHEDULE
 PHILLIP J. SMITH, R.L.A. #1896

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 L - 10

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Date: _____ Customer: _____
 Project: _____
 Type: _____ Qty: _____

selux

Beta Lantern LED



Order Code:	BLL	Pole Order Code:					Series	Height	Finish	Options
Series	BLL	Beta Lantern LED								
Optics	R1	R2	R3	R4	R5R	R5S				
	Type I Distribution	Type II Distribution	Type III Distribution	Type IV Distribution	Type V (Round) Distribution	Type V (Square) Distribution				
Mounting	1	2	W							
	Single	Double	Wall Mount							
Light Engine	5G350	5G530	5G700	5G105	5G140					
	33W nominal	49W nominal	64W nominal	99W nominal	129W nominal					
CCT	30	40								
	3000K	4000K								
Power Cord Length	12	15	18	20	25	XX				
	12'	15'	18'	20'	25'	XX'				
Finish	WH	BK	BL	BZ	SV	SP				
	White	Black	Semi-Matte Black	Bronze	Silver	Specify Premium Color				
Voltage	120	240	277	UNV^{1,2}	347^{1,4}	480^{1,3}				
	120V	240V	277V	120V-277V	347V	480V				
Options	HS⁴	DM⁴	PC7⁴	HL30^{4,4}	HL50^{4,4}					
	House Side Shield (80%)	Dimming (0-10V)	PhotoCell Triac See p. 9 for details	HL30 ^{4,4} Full-Load Switching Low-Output 50%	HL50 ^{4,4} Full-Load Switching Low-Output 50%					

Product Modifications
 Please list modification requirements for review by factory:

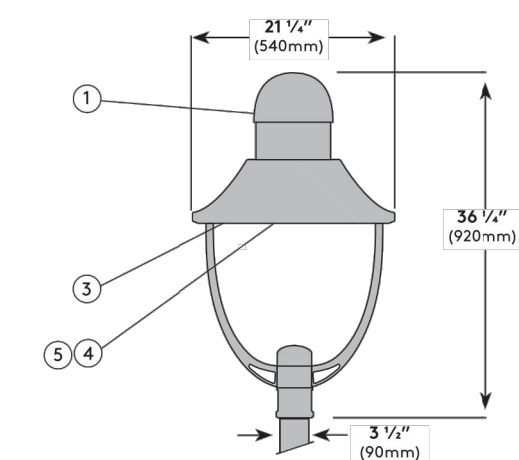
Approvals

Date: _____

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 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 supersede all other printed or electronic versions.

Beta Lantern LED

BLL



Specifications

- Fixture Cap** - Decorative low-copper aluminum fixture cap.
- Gasketing** - (Not shown) Continuous molded gaskets provide weatherproofing, dust, and insect control.
- Fixture Hood** - Decorative low-copper aluminum shade with hinged door for access to LED light engine.
- LED Array** - High Flux LEDs mounted to metal core PCB and attached to external heat sink for maximum LED performance and life. CCT tolerance within a 3 step bin and provided with a minimum CRI of 80. LED light engine has a reported lumen maintenance of 98% at 50,000 hours, L70 calculated greater than 100,000 hours. Exposed face rated to IP65.
- LED Optics** - (not shown) Technical Optics (R1, R2, R3, R4, R5S and R5R) use Selux signature light pattern acrylic lens holder to secure proprietary silicone optics. Internal micro house side shield available for distributions types I, II, III & IV.
- 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 hinged door.
- Surge Protection** - (not shown) Designed to protect luminaire from electrical surge (20KA).
- Pole Fitter** - Cast aluminum fitter secures to pole with two stainless steel Allen head set screws. For 3 1/2" (90mm) O.D. pole.

Exterior Luminaire Finish - Selux utilizes a high quality Polyester Powder Coating. All Selux luminaires and poles are finished in our Tiger Drylok certified facility and undergo a five stage intensive pretreatment process where product is thoroughly cleaned, phosphated and sealed. Selux powder coated products provide excellent salt and humidity resistance as well as ultra violet resistance for color retention. All products are tested in accordance with test specifications for coatings from ASTM and PCI.

Standard exterior colors are White (WH), Black (BK), Semi-Matte Black (BL), Bronze (BZ), and Silver (SV). Selux premium colors (SP) are available, please specify from your Selux color selection guide.

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selux

RTA Round Tapered Aluminum Pole No Arm — 4-Bolt Base

Finish
 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

WARNING:
 Do not install light pole without luminaires.

A	B	C	D	E	F	G	H	I
Min. Wall Thickness	Wall Thickness	Butt Diameter	Top Dia.	Butt Dia.	Butt Dia.	Butt Dia.	Butt Dia.	Butt Dia.
10	0.125"	5	100	16.6	13.0	12.2	10.0	8.2
			Butt Dia.		Butt Dia.		Butt Dia.	
			7.5-8		7.5		2	
			7.5 x 17 x 3					

CUSTOMER NAME: _____
PROJECT: _____ **LOCATION:** _____
NOTES: _____ **QUANTITY:** _____

RTA10B5A4

Pole
 The pole shaft will be constructed of seamless extruded tube of 6063 Aluminum Alloy per the requirements of ASTM B221. The shaft assembly shall be full-length heat treated after base weld to produce a T6 temper.

Base Style
 4-Bolt Cast Aluminum Base Flange of Alloy 356-T6 with Aluminum Bolt Covers (Alloy 356-F) and Stainless Steel Hex Head Attaching Screws.

Handhole
 2" x 4" Handhole with curved Lap Style Aluminum Door and two (2) SS Self-Tapping Attaching Screws. A Grounding Provision incorporating a tapped 1/4"-20NC hole is provided.

Anchorage
 Anchorage Kit will include four (4) L-shaped Steel Anchor Bolts conforming to AASHTO M318-90 Grade 55, ten (10) 1/2" x 4" threaded rods and will be galvanized per ASTM A153. Kits will contain four (4) Hex Nuts, four (4) Lock Washers, and four (4) Flat Washers (all components Galvanized Steel). A bolt circle template will be provided.

Vibration Damper
 When determined necessary by Hapco, a Vibration Damper will be factory-installed inside the pole shaft. Customer specification of the damper is available.

Mounting Designation
 Side Drill Mount - For Side Drill Mount applications specify luminaire type, quantity and orientation. A luminaire drilling template must be supplied at time of order.

Tension Mount - Welded or Spun
 For Tension Mount applications specify both tension diameter (2.375", 2.875", 3.375", etc.) and length (2", 4", etc.). Tension style is factory option. Welded Tension can be specified.

EPA NOTES: Effective Projected Area (EPA) in square feet (EPA) is calculated using wind velocity (mph) indicated in accordance with 2009-2010 ASHRAE Handbook - HVAC Applications. 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.

hapco 20252 Hillman Highway
 Abingdon, VA 24210
 800-368-7171
 www.hapco.com

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LIGHTING
 CUT-SHEETS

PHILLIP J. SMITH, R.L.A. #1896

dwja
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DAVID W. JOHNSTON ASSOCIATES
 630 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 366-3159

SHEET NO.
 L - 11

#	SPECIES	DIAM/CI/R	SIZE (IN.)	ACTION
1				
2				
3				
4	FICUS	DIAM	18	REMOVE
5	FOXTAIL	DIAM	11	REMOVE
6	FOXTAIL	DIAM	11	REMOVE
7	FICUS	DIAM	20	REMOVE
8	FICUS	DIAM	20	REMOVE
9	FICUS	DIAM	20	REMOVE
10	FICUS	DIAM	20	REMOVE
11	FICUS	DIAM	20	REMOVE
12	FICUS	DIAM	20	REMOVE
13	FICUS	DIAM	20	REMOVE
14	FICUS	DIAM	20	REMOVE
15	FICUS	DIAM	20	REMOVE
16	CABBAGE PALM	DIAM	11	REMAIN
17	CABBAGE PALM	DIAM	11	REMAIN
18	OAK	DIAM	20	REMAIN
19	OAK	DIAM	14	REMAIN
20	CABBAGE PALM	DIAM	11	REMAIN
21	CABBAGE PALM	DIAM	11	REMAIN
22	OAK	DIAM	10	REMAIN
23	OAK	DIAM	33	REMAIN
24	OAK	DIAM	32	REMAIN
25	CABBAGE PALM	DIAM	9	REMAIN
26	OAK	DIAM	1	REMAIN
27	OAK	DIAM	12	REMAIN
28	OAK	DIAM	10	REMAIN
29	CABBAGE PALM	DIAM	9	REMAIN
30	CABBAGE PALM	DIAM	9	REMAIN
31	CABBAGE PALM	DIAM	9	REMAIN
32	OAK	DIAM	24	REMOVE
33	OAK	DIAM	12	REMOVE
34	OAK	DIAM	53	REMOVE
35	OAK	DIAM	8	REMOVE
36	OAK	DIAM	10	REMOVE
37	OAK	DIAM	15	REMOVE
38	OAK	DIAM	12	REMOVE
39	OAK	DIAM	13	REMOVE
40	OAK	DIAM	16	REMOVE
41	OAK	DIAM	12	REMOVE
42	OAK	DIAM	9	REMOVE
43	OAK	DIAM	11	REMAIN
44	OAK	DIAM	14	REMAIN
45	OAK	DIAM	8	REMAIN
46				
47	OAK	DIAM	11	REMAIN
48	OAK	DIAM	14	REMAIN
49	OAK	DIAM	10	REMAIN
50	CABBAGE PALM	DIAM	12	REMAIN

TREE PROTECTION - REMOVAL LEGEND

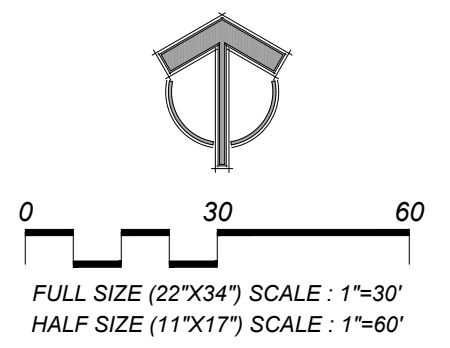
	EXISTING TREE OR PALM TO BE REMOVED
	EXISTING TREE OR PALM TO REMAIN WITH TREE BARRIER TYPICAL

TREE REMOVAL LEGEND

	TOTAL REMOVED (SIZE NOTED ON PLANS)
CANOPY TREES	12
PALMS	2
*INVASIVE - REPLACEMENT NOT REQUIRED 10	

REPLACEMENT PROVIDED

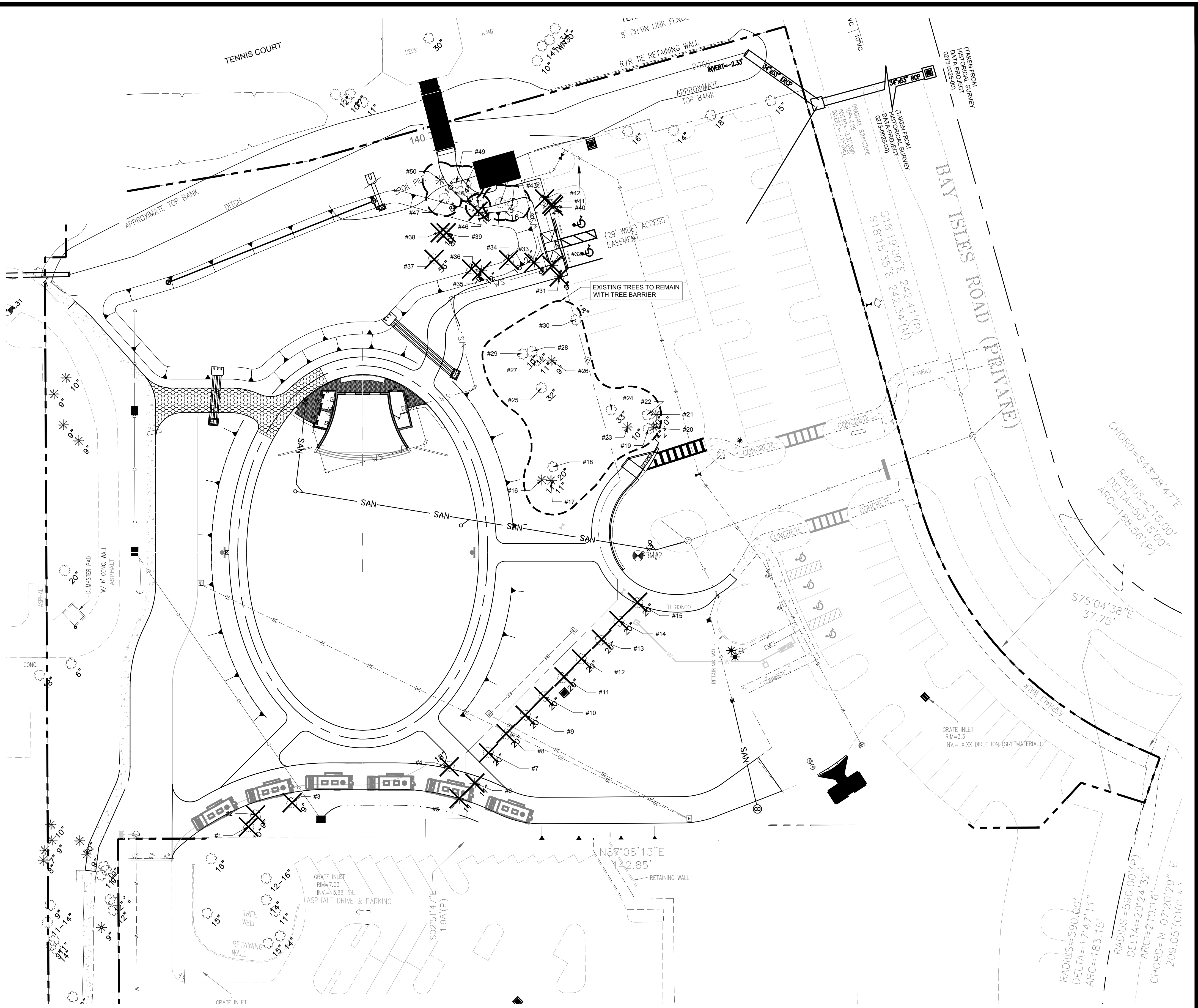
	TOTAL
4" CALIPER TREES	24
PALMS	7



CALL 48 HOURS BEFORE YOU DIG

IT'S THE LAW! Know what's below. Dial 811. Call before you dig.

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	bjk	REVISION 1 - BLDG. COMMENTS & GENERAL REVISIONS 11-18-2022	KJ		
2	REV. PER CIVIL	11-02-2021	KJ	5	REV. PER LBK	12-15-2022	JL
3	REV. PER CIVIL	11-08-2021	KJ				
4	REV. PER CIVIL	03-31-2022	KJ				

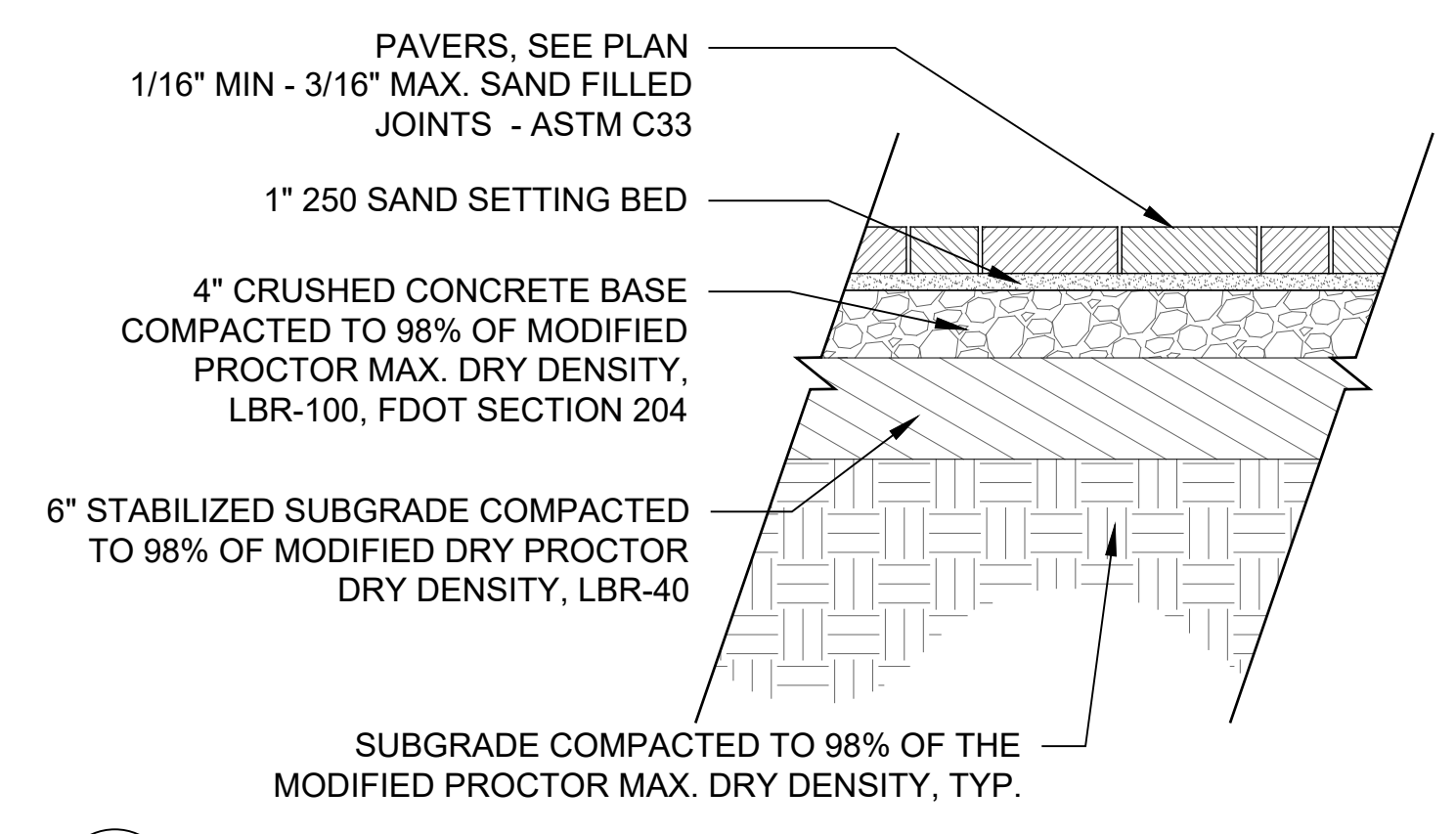
TREE REMOVAL AND PROTECTION PLAN
PHILLIP J. SMITH, R.L.A. #1896

dwja LANDSCAPE ARCHITECTS
DAVID W. JOHNSTON ASSOCIATES
630 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 366-3159

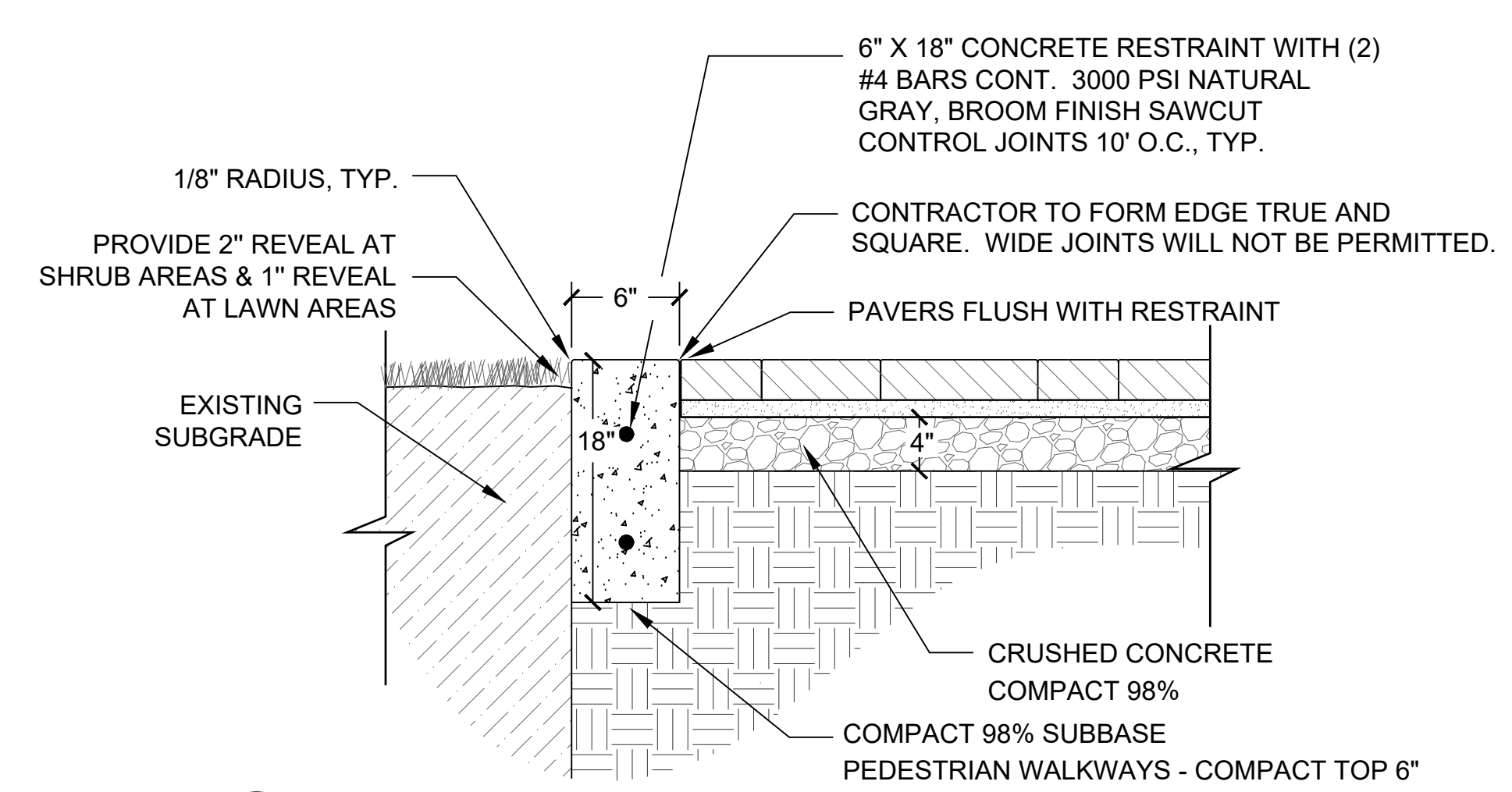
SHEET NO.
L - 12

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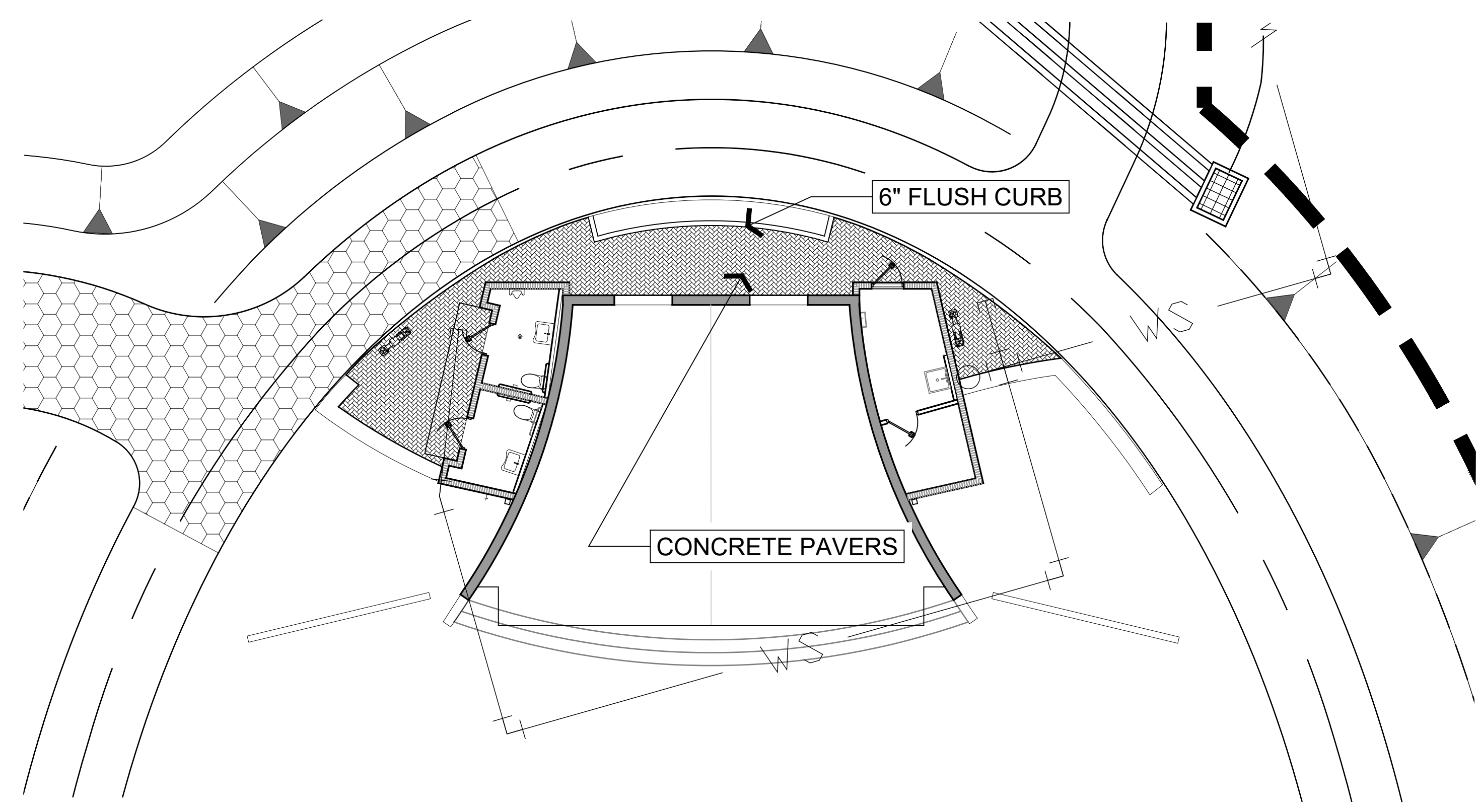
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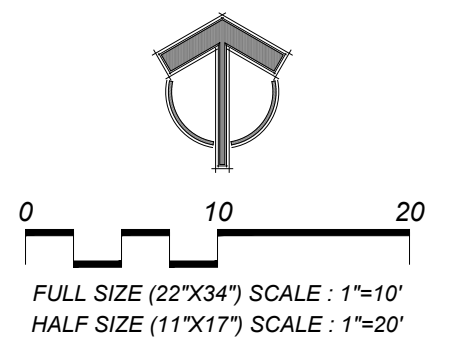
1 CONCRETE PAVER SECTION DETAIL - PEDESTRIAN
SCALE: N.T.S.



2 6" FLUSH CURB DETAIL
SCALE: N.T.S.



Concrete Pavers Size & Type: 4" x 8" x 2 3/8" Brick Paver
 Pattern: Herringbone on a 45
 Manufacturer: Tremron
 Color: TBD, White Cement base



CALL 48 HOURS BEFORE YOU DIG

811

IT'S THE LAW! DIAL 811

Know what's below. Call before you dig.

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	bjk	** 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		

HARDSCAPE PLAN

PHILLIP J. SMITH, R.L.A. #1896

dwja LANDSCAPE ARCHITECTS

DAVID W. JOHNSTON ASSOCIATES

630 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 366-3159

SHEET NO.
 L - 13

ORDINANCE 2023-03

AN ORDINANCE OF THE TOWN OF LONGBOAT KEY, FLORIDA, APPROVING AN AMENDED PLANNED UNIT DEVELOPMENT (PUD)/OUTLINE DEVELOPMENT PLAN AMENDMENT (ODP) FOR PARCELS FORMERLY KNOWN AS “B-1 SOUTH,” “B-2,” “TRACT A” AND “C” OF THE BAY ISLES PLANNED UNIT DEVELOPMENT, AND REASSIGNING A NEW PARCEL NAME OF “TOWN CENTER GREEN” TO THE CONSOLIDATED SITE, LOCATED AT 600 BAY ISLES ROAD; ASSIGNING PERMITTED USES TO THE SITE; AUTHORIZING THE DEVELOPMENT OF THE TOWN CENTER GREEN; PROVIDING FOR SEVERABILITY; REPEALING AND SUPERCEDING ALL PORTIONS OF ORDINANCES, RESOLUTIONS AND SITE DEVELOPMENT ORDERS IN CONFLICT; PROVIDING FOR CODIFICATION; PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, the Town of Longboat Key (hereinafter the “Owner”) owns certain real property located at 600 Bay Isles Road (hereinafter “Property”); and

WHEREAS, the Property is zoned MUC-1 (Mixed Use Community - Bay Isles District); and

WHEREAS, on August, 6, 1975, the Town of Longboat Key adopted Resolution 75-27, approving an Outline Development Plan for Bay Isles in the PD zoning district; and

WHEREAS, on December 5, 1983, the Town of Longboat Key adopted Resolution 83-48, approving a Site Plan for Town Plaza, Phase II in the PD zoning district; and

WHEREAS, Town Plaza, Phase II, was originally constructed in 1984; and

WHEREAS, on February 6, 2012, the Town of Longboat Key adopted Ordinance 2012-03, approving an Outline Development Plan Amendment to delete all previously approved allowable uses for Parcel B-1 South; and

WHEREAS, on February 6, 2012, the Town of Longboat Key adopted Ordinance 2012-04, approving an Outline Development Plan Amendment to establish site area and setbacks for Parcels B-2 and C; and

WHEREAS, since the adoption of Resolution 83-48, the Owner has subsequently sought to develop a Town Center that would serve as a community meeting and gathering location for cultural, art, and park activities; and

WHEREAS, several surveys and public meetings were conducted in 2020 and 2021, which have provided positive feedback regarding the development of a Town Center Green; and

WHEREAS, the Town of Longboat Key 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; and

WHEREAS, from 2014 to 2017, the Owner purchased parcels B-1 South, B-2 and C to utilize for the Town Center Green development; and

WHEREAS, on January 3, 2023, the Town of Longboat Key approved a Lot Consolidation application for the Property, and consolidated parcels B-1 South, B-2, Tract A, and parcel C into one parcel, totaling 4.8 acres; and

WHEREAS, the Owner has filed an application to amend the Outline Development Plan/Planned Unit Development (ODP/PUD) to assign allowable uses to the Property that are consistent with the Town Center Green development; and

WHEREAS, the Owner has proposed the following allowable uses for the Property: government building, continuing education center, civic center, public park and recreation center, and cultural center; and

WHEREAS, the Planning and Zoning Official has accepted the Applicant's application in a timely fashion, and referred the same to the Planning and Zoning Board along with supporting documentation and staff recommendations; and

WHEREAS, the Planning and Zoning Board is authorized by the Land Development Code to recommend approval of the application as submitted, recommend approval of the application with changes or special conditions, or recommend disapproval of the application to the Town Commission, if the application meets or does not meet the applicable provisions of the Land Development Code; and

WHEREAS, the Planning and Zoning Board held a properly noticed public hearing on January 17, 2023, and heard evidence and testimony associated with the Owner's application; and

WHEREAS, the Planning and Zoning Board reviewed the application and after considering all of the competent substantial evidence in the record, recommended to the Town Commission that the proposed PUD/ODP application be approved with certain agreed upon conditions; and

WHEREAS, on February 6, 2023, the Town Commission conducted a duly noticed first public hearing on Ordinance 2023-03; and

WHEREAS, on March 6, 2023, the Town Commission conducted a duly noticed second public hearing on Ordinance 2023-03 and the Town Commission approved the Ordinance; and

WHEREAS, after considering all of the competent substantial evidence in the record, including the testimony and documents submitted into the record at the hearing, including but not limited to the findings and professional analysis of Town Staff in the staff report and presentation, the Town Commission makes these conclusions of law and findings of fact:

- A. Pursuant to Section 158.036 (C)(1) of the Zoning Code, with the recommended conditions of approval, the Owner's amended ODP is consistent with the intent of a planned unit development as provided in Section 158.034.
- B. Pursuant to Section 158.036 (C)(2) of the Zoning Code, with the recommended conditions of approval, the Owner's amended ODP is consistent with Future Land Use Policy 1.4.1 of the Town's Comprehensive Plan.
- C. Pursuant to Section 158.036 (C)(3) of the Zoning Code, with the recommended conditions of approval, the Owner's amended ODP meets the zoning regulations applicable to the subject Property.

D. Pursuant to Section 158.036 (C)(4) of the Zoning Code, with the recommended conditions of approval, the Owner's amended ODP provides an adequate amount of common open space for maintenance and conservation and adequately meets the purposes of the common open space as related to the proposed location, density, and type of development.

E. Pursuant to Section 158.036 (C)(5) of the Zoning Code, with the recommended conditions of approval, the Owner's amended ODP provides adequate control over vehicular traffic and parking, and enhances the amenities of light and air, recreation, and visual enjoyment.

F. Pursuant to Section 158.036 (C)(6) of the Zoning Code, with the recommended conditions of approval, the Owner's amended ODP does not adversely impact the immediate neighborhood, as the Property is surrounded by commercial and recreational uses.

G. Pursuant to Section 158.036 (C)(8) of the Zoning Code, with the recommended conditions of approval, the Owner's amended ODP 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.

H. Pursuant to Section 158.036 (C)(9) of the Zoning Code, with the recommended conditions of approval, the Owner's amended ODP is considered generally to be compatible uses in the MUC district based on the intent to encourage a mixture of uses including significant recreation and open space areas and clustering at varying scales and intensity.

I. Pursuant to Section 158.036 (F) of the Zoning Code, the Town Clerk, within seven days after the adoption of the ordinance, shall file a certified copy in the Clerk's office and shall mail a certified copy to the Owner. Upon approval of the ordinance, the Town Clerk shall file with the Clerk of the Circuit Court, to record in the official records of the county in which the property is located, the amended Outline Development Plan at Owner's expense.

NOW, THEREFORE, BE IT ORDAINED BY THE TOWN OF LONGBOAT KEY, FLORIDA, THAT:

SECTION 1. The Whereas clauses above are ratified and confirmed as true and correct, and are hereby incorporated fully by reference.

SECTION 2. The PUD/ODP application dated October 6, 2022, and amended on November 21, 2022, for the Town Center Green as described herein, is hereby approved subject to the conditions contained in Exhibit "B" attached hereto as Conditions Requisite for Approval, located at 600 Bay Isles Road, Longboat Key, Florida, 34228. Exhibit "B" is incorporated fully herein.

SECTION 3. If any section, subsection, sentence, clause or provision of this Ordinance is held to be invalid or ineffective, the validity of the remaining portions of this Ordinance shall not be affected.

SECTION 4. All ordinances, resolutions, and site development orders relating to this Property and parts of such ordinances, resolutions and site development orders in conflict herewith shall be superseded and the same are hereby repealed.

SECTION 5. This Ordinance shall take effect upon adoption by the Town Commission and approval within 30 days by the Owner. If the Town of Longboat Key has not received notification of approval and acceptance of this Ordinance within 30 days after the Owner's receipt, this Ordinance shall be deemed to have been denied. Notwithstanding the foregoing, the PUD/ODP approval provided for herein is contingent upon the Owner having also obtained approval of the Site Development Plan Amendment from the Town Commission through Site Development Plan Order 2023-01. For purposes of the required notice herein, the Town Manager is hereby delegated authority to provide notification required in this paragraph.

SECTION 6. Codification. This Ordinance shall be codified and made a part of the official Code of Ordinances of the Town of Longboat Key upon adoption and acceptance by the Owner as provided in Section 5.

Passed on the first reading and public hearing the ____ day of _____ 2023.

Adopted on the second reading and public hearing this ____ day of _____ 2023.

Kenneth Schneier, Mayor

ATTEST:

Trish Shinkle, Town Clerk

Attachment: Exhibit "A" - Consent of Developer
Exhibit "B" - Conditions of Requisite for Approval
Exhibit "C" - Outline Development Plan
Exhibit "D" - Land Intensity Schedule

EXHIBIT "A"

ORDINANCE 2023-03

CONSENT OF DEVELOPER

TOWN CENTER GREEN

600 BAY ISLES ROAD

The undersigned, Town Manager for the Town of Longboat Key, Property Owner, does hereby approve and assent to the terms, conditions, and provisions of the foregoing Ordinance and does further acknowledge that the same is binding upon them and their successors and assigns in the manner hereinabove set forth.

Town of Longboat Key, Property Owner

By: _____
Signature

Please print or type name

Title: ___Town Manager_____

Dated: _____

ATTEST:

Signature

Please print or type name

Title: _____

EXHIBIT "B"
ORDINANCE 2023-03
CONDITIONS REQUISITE FOR APPROVAL
PLANNED UNIT DEVELOPMENT/OUTLINE DEVELOPMENT PLAN
TOWN CENTER GREEN
600 BAY ISLES ROAD

1. 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, modified, or amended pursuant to Town Code.
2. Approval of this Planned Unit Development/Outline Development Plan (PUD/ODP) Amendment is subject to approval of Site Development Plan Order 2023-01.
3. 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:
 - (A) The Owner shall abandon the plan or the Section thereof that has been finally approved, and shall so notify the Town; or
 - (B) 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
 - (C) 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 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 by the Town of Longboat Key in the plan are:
 - (A) Site access and circulation
 - (B) 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
- (C) Public information
- (D) Police control at intersections
- (E) Signage
- (F) Pedestrian management

EXHIBIT "C"

ORDINANCE 2023-03

PLANNED UNIT DEVELOPMENT/OUTLINE DEVELOPMENT PLAN

TOWN CENTER GREEN
600 BAY ISLES ROAD



LOT SITE CALCULATION TABLE

PROVIDED:
 LOT COVERAGE = 1,810 S.F.
 LOT AREA = 3,975 S.F.
 LOT WIDTH = 361 FT
 BUILDING HEIGHT = 21'-1"

MUL. 1 ZONING REQUIREMENTS:
 MINIMUM LOT AREA = 10,000 S.F.
 MINIMUM LOT WIDTH = 150 FT
 MINIMUM LOT DEPTH = 150 FT
 MINIMUM STREET SIDE SETBACK = 50 FT
 MINIMUM SIDE YARD SETBACK = 30 FT (80 FT TOTAL)
 MINIMUM REAR YARD SETBACK = 30 FT (40 FT)
 MAXIMUM BUILDING HEIGHT = 50' (65' W/POD)
 MAXIMUM NON-OPEN SPACE = 50%

LOT COVERAGE

PROPOSED STAGE
 PROPOSED PEDESTRIAN WALKWAY = 1,850 S.F.
 PROPOSED CURB RAMP = 71,900 S.F.
 PROPOSED HARDSCAPE = 2,169 S.F.
 PROPOSED SHELL EXPLAQUE = 5,544 S.F.
 PROPOSED RESTROOM = 120 S.F.
 PROPOSED ADA ACCESS PARKING = 432 S.F.
 EXISTING PARKING & DRIVEWAY = 43,548 S.F.
 EXISTING SHELL DRIVEWAY = 4,351 S.F.
 EXISTING HISTORICAL BUILDING = 384 S.F.
 EXISTING HISTORICAL BUILDING A = 1,200 S.F.
 EXISTING HISTORICAL BUILDING B = 1,700 S.F.
 FUTURE BRIDGE = 300 S.F.
 TOTAL = 94,357 S.F.

REQUIRED 50% MIN. NON-OPEN SPACE = 47,179 S.F.
 PROVIDED NON-OPEN SPACE = 34,255 S.F. = 209,490 S.F. = 65.04% < 50%

- ▲ WINDS PROPOSED ADA ACCESS PARKING
- INCLUDES CURB & UTTER
- PROPOSED DISABLED ACCESS PARKING = 2
- EXISTING PARKING = 75
- EXISTING DISABLED ACCESS PARKING = 4
- TOTAL SPACES = 81
- BASE FLOOD ELEVATION (BFE) = 10.0 (NAND BB)
- BFE - HURRICANE SURGE = 10.0 (NAND BB)
- BFE - EXISTING TIDALLY INFLUENCED SWALE = 2.05 (NAND BB)
- TOWN CODE SECTION 158.100 (L)
 3A. SETBACK AREA = 455' X 50' = 22,750 S.F.
 MAX. 70% = 15,925 S.F.
 1465.30(4) ISLANDS = 884 S.F.
- TOWN CODE SECTION 158.100 (L)
 (1) PARKING AREA = 64,415 S.F.
 15% = 9,662 S.F.
- (2) PARKING SPACES (P.S.) TO MATURE TREES (M.T.) = 81 P.S. / 5 P.S. PER M.T. = 17 REQUIRED
- (3) LANDSCAPE ISLANDS: 33 OAKS & 7 PALMS = 40 PROVIDED
- (4) PROTECTED FROM VEHICLES: YES
- (5) PROTECTED FROM VEHICLES: YES, ALL CURBED
- ▲ = MATURE OAK
- = PALM

TOWN CENTER IMPROVEMENTS - OUTDOOR VENUE
 TOWN CODE SECTION 158.100 (J, J)
 VERIFICATION - EXHIBIT A

OF LONGBOAT KEY
 PUBLIC WORKS
 GENERAL HARRIS STREET
 LONGBOAT KEY, FL 33488
 787-527-1100

**SUBJECT TO APPROVAL BY
TOWN COMMISSION**

DMK ASSOCIATES
 431 CORNWELL
 VENICE, FL 33596
 TEL: 813-944-9999
 FAX: 813-944-9999
 WWW.DMK-FL.COM
 JOHN K. PARI, P.E.
 ENGINEER
 LICENSE NO. 56268

SCALE: 1" = 20'-0"
 DATE: 06/23/23
 DESIGNED BY: J. PARI
 DRAWN BY: J. STEELE
 CHECKED BY: J. ZASU
 PROJECT NO.: 2301

JOHN K. PARI, P.E. STATE OF FLORIDA PROFESSIONAL ENGINEER LICENSE NO. 56268
 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 UNACCEPTABLE. THE ORIGINAL DOCUMENT AND THE SHA AUTHENTICATION CODE MUST BE VERIFIED UNDER RULE 61G15-23.004, F.A.C. SECTION 62-330.301(4), F.A.C.; SECTION 2.2, ERP APPLICANT'S HANDBOOK VOL. II (4/19/11).

EXHIBIT "D"
ORDINANCE 2023-03
BAY ISLES PLANNED DEVELOPMENT
LAND INTENSITY SCHEDULE

Tract	Area in Acres	D.U./Acre	Maximum D.U.	Type of Development/Building	Building Details
RESIDENTIAL					
Harbor	30.60	2.60	80	Single Family	1 to 2 stories
MF "A" Fairway Bay	25.88	11.10	288	Multifamily Low Rise	2 to 5 stories
MF "B-1A" Harbour Court	5.00	3.60	18	Two-Family	1 to 2 stories
MF "B-1B" Marina Bay	7.39	8.12	60	Multifamily Mid Rise	Three Buildings 5 stories above parking
MF "B-2A" Harbour Oaks	11.19	5.00	56	Multifamily Low Rise	1 to 2 stories
MF "B-2B" Harbour Oaks II	8.92	4.70	42	Multifamily Low Rise	1 to 2 stories
MF "C-D" Harbour Links	10.16	4.13	42	Two Family and Multifamily Low Rise	1 to 2 stories
MF "H", MF "K", & HR "B" Manchester Bay	34.22	2.98	102	Single Family	1 to 2 stories
MF "I" Corey's Landing	22.10	3.30	72	One or Two Family	1 to 2 stories
MF "J" Winding Oaks	13.81	4.10	56	One or Two Family	1 to 2 stories
Bayou	41.21	2.60	109	Single Family	1 to 2 stories
Tract "A"	5.79	2.90	17		
HR "A" Grand Bay	23.89	11.38	272	Multifamily High Rise	Four buildings (10 stories over two levels of parking) Two buildings (four stories over two levels of parking)
HR "C" Sabal Cove	19.05	1.99	38	Single Family	1 to 2 stories
Tract "C" Weston Pointe	5.46	2.75	15	Single Family	1 to 2 stories
Subtotal Residential	264.67	4.79	1267		
CIVIC AREA					
Church Sites	8.70				

Tract	Area in Acres	D.U./Acre	Maximum D.U.	Type of Development/Building	Building Details
Public Safety Building	1.00				
<u>Town Center Green</u>	<u>4.81</u>				
Subtotal Civic Area	<u>9.70</u> <u>14.51</u>				
COMMERCIAL AREA					
Offices	2.14				
Parcel B-1 North	2.38				
Parcel B-1 South	2.81				
Parcel B-2	4.65				
Parcel C	0.35				
Parcel A Shoppes of Bay Isles	12.20				
Post Office	1.57				
Northern Trust The Paradise Center	0.90				
Sun Trust	1.00				
Bank of America	2.70				
Marina Commercial Complex	2.80				
Subtotal Commercial	30.50 <u>25.69</u>				
ROAD RIGHTS-OF-WAY					
Subtotal Road Rights-of-Way	45.00				
RECREATION/OPEN SPACE					
Golf Course	269.56				
Boat Basin – Parcel O (Harbourside Moorings Marina)	32.68			291 Slips Harbour Master Building and Pool	
Small Craft Basin (West Boat Basin)	5.60				
Perimeter Channel	21.90				
Other Navigable Channels Inside Town Bulkhead Line	22.60				
Buffer	1.60				

Tract	Area in Acres	D.U./Acre	Maximum D.U.	Type of Development/Building	Building Details
Park	3.10				
Park	0.90				
Park – Buffer	5.80				
Sanctuary (Hidden Lake)	11.41				
Subtotal Recreation/Open Space	375.15				
SUBTOTAL NON-RESIDENTIAL	460.35				
GRAND TOTAL	725.02	4.79	1267		

SITE DEVELOPMENT PLAN ORDER 2023-01

A SITE DEVELOPMENT PLAN ORDER OF THE TOWN OF LONGBOAT KEY, FLORIDA, APPROVING AN AMENDED FINAL SITE DEVELOPMENT PLAN FOR TOWN PLAZA, PHASE II, LOCATED AT 600 BAY ISLES ROAD, ALLOWING FOR THE CONSTRUCTION OF A PAVILLION, STAGE, AND ACCESSORY STRUCTURES; REPEALING AND SUPERCEDING PORTIONS OF PRIOR SITE PLAN DEVELOPMENT ORDERS IN CONFLICT; PROVIDING FOR SEVERABILITY; PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, the Town of Longboat Key (hereinafter the “Owner”) owns certain real property located at 600 Bay Isles Road (hereinafter “Property”); and

WHEREAS, the Property is zoned MUC-1 (Mixed Use Community - Bay Isles District); and

WHEREAS, on August, 6, 1975, the Town of Longboat Key adopted Resolution 75-27, approving an Outline Development Plan for Bay Isles in the PD zoning district; and

WHEREAS, on December 5, 1983, the Town of Longboat Key adopted Resolution 83-48, approving a Site Plan for Town Plaza, Phase II in the PD zoning district; and

WHEREAS, Town Plaza, Phase II, was originally constructed in 1984; and

WHEREAS, since the adoption of Resolution 83-48, the Owner has subsequently sought to develop a Town Center that would serve as a community meeting and gathering location for cultural, art, and park activities; and

WHEREAS, several surveys and public meetings were conducted in 2020 and 2021, which have provided positive feedback regarding the development of a Town Center; and

WHEREAS, the Town of Longboat Key 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; and

WHEREAS, from 2014 to 2017, the Owner purchased parcels B-1 South, B-2 and C to utilize for the Town Center Green development; and

WHEREAS, on January 3, 2023, the Town of Longboat Key approved a Lot Consolidation application for the Property, and consolidated parcels B-1 South, B-2, Tract A, and parcel C into one parcel, totaling 4.8 acres; and

WHEREAS, the Owner has submitted a Site Development Plan application requesting Town approval to amend the previously approved site plan to allow for the construction of a pavilion, stage, and accessory structures; and

WHEREAS, the Owner has also filed a concurrent application to amend the Outline Development Plan/Planned Unit Development (ODP/PUD) to assign allowable uses to the Property that are consistent with the Town Center Green development; and

WHEREAS, the Planning and Zoning Official has, in a timely fashion, accepted a Site Development Plan application for the Property and referred the same to the Planning and Zoning Board along with the support documentation and staff recommendations; and

WHEREAS, the Planning and Zoning Board held a properly noticed quasi-judicial public hearing on January 17, 2023, and heard evidence and testimony associated with the Owner's application; and

WHEREAS, the Planning and Zoning Board reviewed the application and after considering all of the competent substantial evidence, including but not limited to the findings and professional analysis of Town Staff in the staff report and presentation, recommended to the Town Commission that the proposed PUD/ODP/Final Site Plan application be approved with certain agreed upon conditions; and

WHEREAS, on _____, 2023, the Town Commission conducted a duly noticed public hearing on Site Development Plan Order 2023-01; and

WHEREAS, after considering all of the competent substantial evidence in the record, including the testimony and documents submitted into the record at the hearing, including the Staff Report submitted on January 10, 2023, and its supplements, and the recommendation of the Planning and Zoning Board, the Town Commission makes these conclusions of law and findings of fact:

- (a) With the recommended conditions of approval, the Site Development Plan is consistent with the Comprehensive Plan, and the purpose and intent of the MUC-1 zoning district.
- (b) With the recommended conditions of approval, the Site Development Plan is in conformance with all applicable regulations of the MUC-1 zoning district.
- (c) With the recommended conditions of approval, the Site Development Plan is in conformance with the Town of Longboat Key's subdivision regulations, Chapter 157, and all other applicable Town of Longboat Key requirements, including the design, adequacy, utility facilities, and other essential services.
- (d) With the recommended conditions of approval, the Site Development Plan is 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.
- (e) With the recommended conditions of approval, the Site Development Plan is in conformance with Town of Longboat Key policy in respect to sufficiency of ownership, guarantees for completion of all required improvements, and, if private, the guarantees for continued maintenance.

NOW, THEREFORE, BE IT ORDAINED BY THE TOWN OF LONGBOAT KEY, FLORIDA, THAT:

Section 1. The above recitals are true and correct and are fully incorporated herein by reference.

Section 2. The Site Development Plan application dated October 6, 2022, and amended on November 21, 2022, to construct a pavilion, stage, and accessory structures, located at 600 Bay Isles Road, Longboat Key, Florida 34228 is hereby approved subject to the conditions attached hereto marked Exhibit "A", "Conditions Requisite for Approval" and dated concurrently with this Order.

Section 3. If any section, subsection, sentence, clause or provision of this Site Development Plan Order is held to be invalid or ineffective, the validity of the remaining portions of this Site Development Plan Order shall not be affected.

Section 4. Those portions of prior site development orders in conflict herewith shall be superseded and the same are hereby repealed.

Section 5. This Site Development Plan Order shall become effective immediately upon adoption.

Adopted on the second reading and public hearing this ____ day of _____ 2023.

Kenneth Schneier, Mayor

ATTEST:

Trish Shinkle, Town Clerk

Attachment: Exhibit "A", Conditions Requisite for Approval

EXHIBIT "A"

SITE DEVELOPMENT PLAN ORDER 2023-01

CONDITIONS REQUISITE FOR APPROVAL
SITE DEVELOPMENT PLAN

TOWN CENTER GREEN
600 BAY ISLES ROAD

1. 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, modified, or amended pursuant to Town Code.
2. Approval of this Site Development Plan is subject to the approval of Ordinance 2023-03.
3. 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 Owner 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 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 by the Town of Longboat Key in the plan are:

- a. Site access and circulation
- b. 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
- c. Public information
- d. Police control at intersections
- e. Signage
- f. Pedestrian management



TOWN OF LONGBOAT KEY

Site Development Plan Order 2023-01 Ordinance 2023-03

600 Bay Isles Road

Town Commission Public Hearing
February 6, 2023



TOWN OF LONGBOAT KEY

Application Request

- 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
- Site Development Plan to request approval of:
 - Construction of a pavilion, stage, and accessory structures.



TOWN OF LONGBOAT KEY

P&Z Board Hearing

- Plan presented to the P&Z Board January 17, 2023
- P&Z Board discussed concerns regarding parking and traffic.
 - Strongly supported Condition #7 regarding the requirement for a Special Event Transportation Management Plan



TOWN OF LONGBOAT KEY

600 Bay Isles Rd.





TOWN OF LONGBOAT KEY

Background

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)



TOWN OF LONGBOAT KEY

Background

LOT COVERAGE: 2,654 square feet (.012%)

NON-OPEN SPACE: 75,457 square feet (36%)

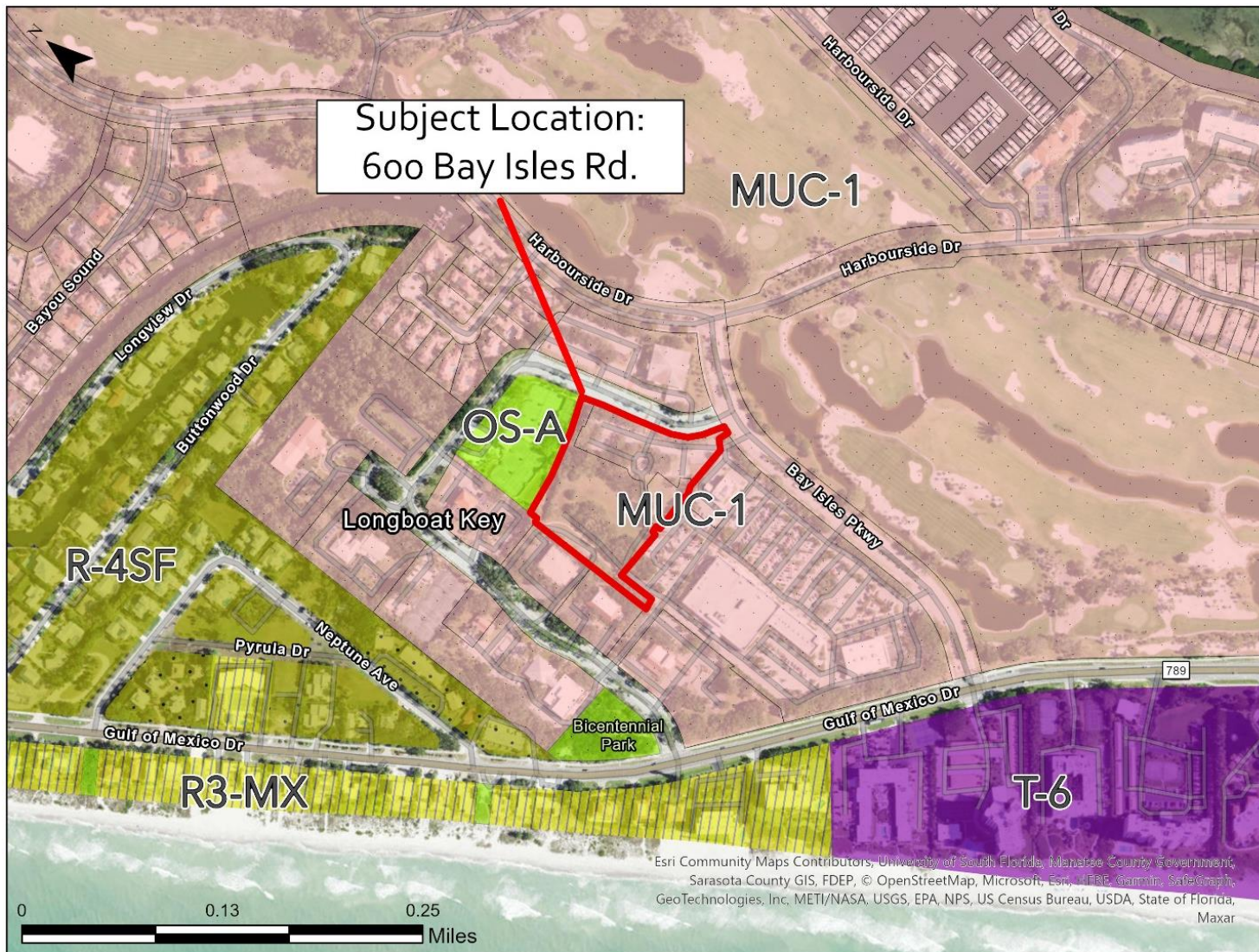
PARKING REQUIRED: 8 parking spaces

PARKING PROVIDED: 81 parking spaces



TOWN OF LONGBOAT KEY

Zoning





TOWN OF LONGBOAT KEY

Site Plan (Proposed)

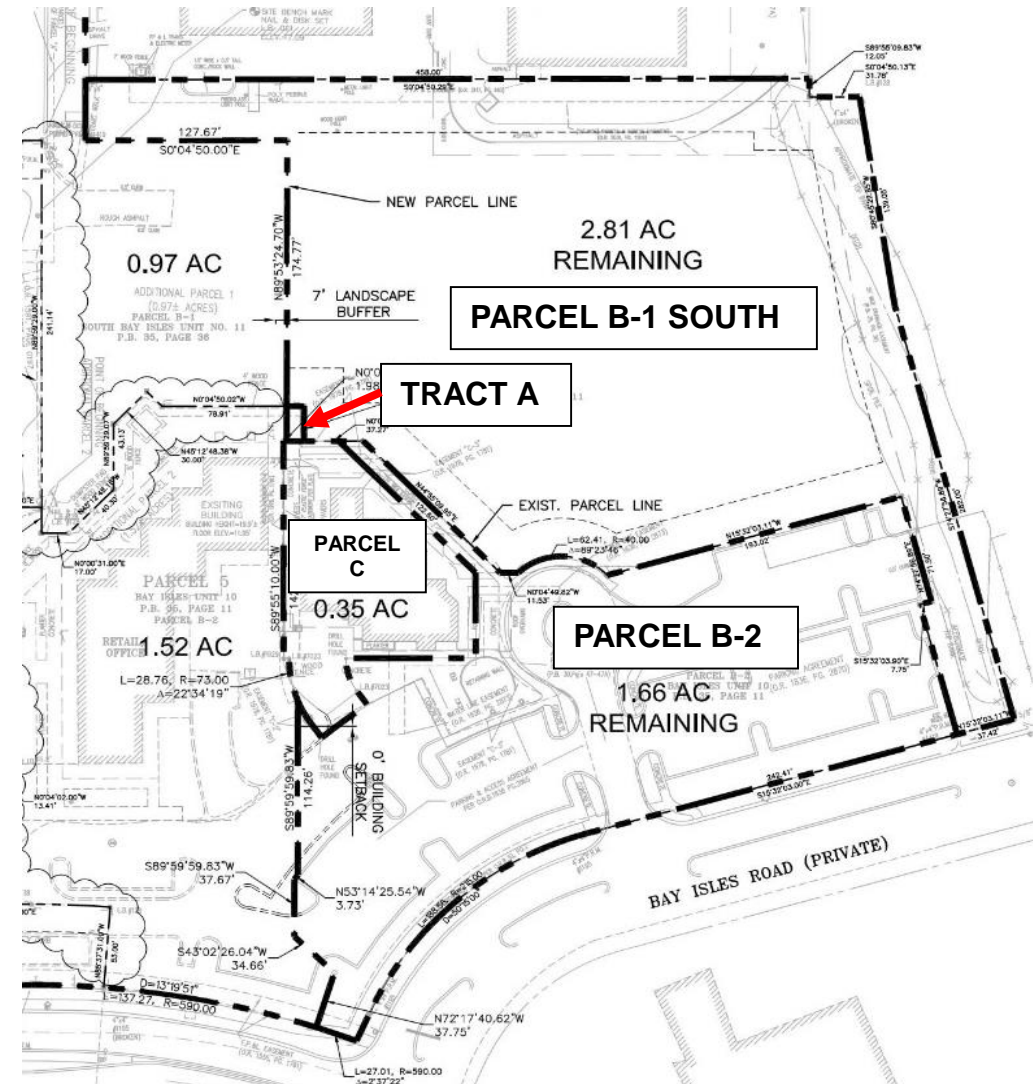




TOWN OF LONGBOAT KEY

Background

- Site: Located within Bay Isles Planned Unit Development.
- Formerly four separate parcels
 - B-1 South,
 - B-2,
 - Tract A, and
 - Parcel C
- Town recently approved Lot Consolidation application to consolidate all lots into one lot.





TOWN OF LONGBOAT KEY

Background

Original entitlements: August 6, 1975

- Resolution 75-27
 - Outline Development Plan for the overall Bay Isles Planned Development zoning district.

Amendment: December 5, 1983:

- Resolution 83-48
 - Site plan for the subject site and surrounding area: “Town Plaza, Phase II.”
 - Subsequently amended by multiple resolutions from 1983 to 2012.



Background

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



Background

- **1975 to present:** *Town Plaza*
 - Civic and commercial center, within Bay Isles Planned Development.
- **2014:** Town began to purchase property in developing civic/recreational portion
 - 2014 to 2017: Purchase of parcels B-1 South, B-2, and C.
 - Tract A not identified with name/not included as its own parcel in the Land Use Intensity Table.
 - Included in parcel B-1 South purchase
- Town also adopted Comprehensive Plan policies to encourage the development of a Town Center.



TOWN OF LONGBOAT KEY

Background

- Town held a number of special meetings and public workshops to discuss the overall site, specific improvements, the purpose of the site, and uses.
- Town conducted surveys in 2021 and 2022 (Citizen Survey), to gauge public support for Town Center Green
- 2022: Town adopted the 2022 Strategic Initiatives,
 - Identifies a specific goal of advancing long-range plans to develop community facilities on the Town Center Green property.



TOWN OF LONGBOAT KEY

Background

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



Site Character

- Primarily consists of the identifying and applying allowable uses for the property,
- Construction of a stage, pavilion, and accessory structures.
 - Accessory structures: Historical Society building, and a building for restroom facilities.
- 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.



TOWN OF LONGBOAT KEY

Site Plan



The top left of the slide features a circular logo for the Town of Longboat Key, which includes a map of the island and a person fishing. To the right of the logo is a photograph of a beach with tall grasses in the foreground and the ocean in the background under a clear blue sky.

Proposed Uses

TOWN OF LONGBOAT KEY

- Purpose of PUD/ODP amendment application: assign allowable uses to the Town Center Green property.
- Town has identified the following uses for the property:
 - Government building
 - Continuing education center
 - Civic center
 - Public park and recreation center
 - Cultural center



Proposed Uses

- Site Development Plan Amendment: required component of PUD/ODP approval
 - Depicts detailed aspects of the site including allowing for the construction of a pavilion, stage and accessory uses.
- Other allowable uses identified for property → future development: **Phase 3** of the project.
- Current phase of the project utilizing the permitted MUC-1 uses of civic center and public park (pending Zoning Text Amendment).



Land Use Intensity Table

Tract	Area in Acres	D.U./Acre	Maximum D.U.	Type of Development/Building	Building Details
Public Safety Building	1.00				
<u>Town Center Green</u>	<u>4.81</u>				
Subtotal Civic Area	9.70 <u>14.51</u>				
COMMERCIAL AREA					
Offices	2.14				
Parcel B-1 North	2.38				
<u>Parcel B-1 South</u>	<u>2.81</u>				
Parcel B-2	1.65				
Parcel C	0.35				



Parking and Access

- Required parking for the Town Center Green is based on the use of “*Parks and Other Open Recreational Spaces*” for the parking calculation.
 - Required parking ratio is: “*1 parking space per 3 patrons plus one parking space per employee on largest shift.*”
 - 1 required bicycle parking space
 - Required accessible parking spaces is based upon the parking required for the use on the property.



Parking and Access

- Traffic Impact Analysis report prepared by Kimley Horn and Associates.
 - Parking calculations for a museum/cultural center (*anticipated Phase 3*) and **park**
 - Parking analysis for peak period demands by month and time of week.
 - Staff analysis of parking requirements based upon the use of stage and pavilion (**park**).
 - Peak period parking demand analysis to determine number of patrons on typical day-to-day basis for required parking calculation
 - Highest parking demand for park during peak hours requires **8 parking spaces**.
 - Final Site Development Plan: **81 parking spaces** provided



Parking and Access

- Anticipated scenarios where the Town Center Green will be used for larger attendance events.

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



Parking and Access

- 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.
- Most properties do not operate past 5pm.
- If special event occurs in evening → potential to utilize surrounding parking.

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	



Parking and Access

TOWN OF LONGBOAT KEY

Proposed Condition #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 by the Town of Longboat Key in the plan are:

- 1) Site access and circulation
- 2) Parking management:
 - i. Event parking pricing
 - ii. Off-site parking



Parking and Access

- 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



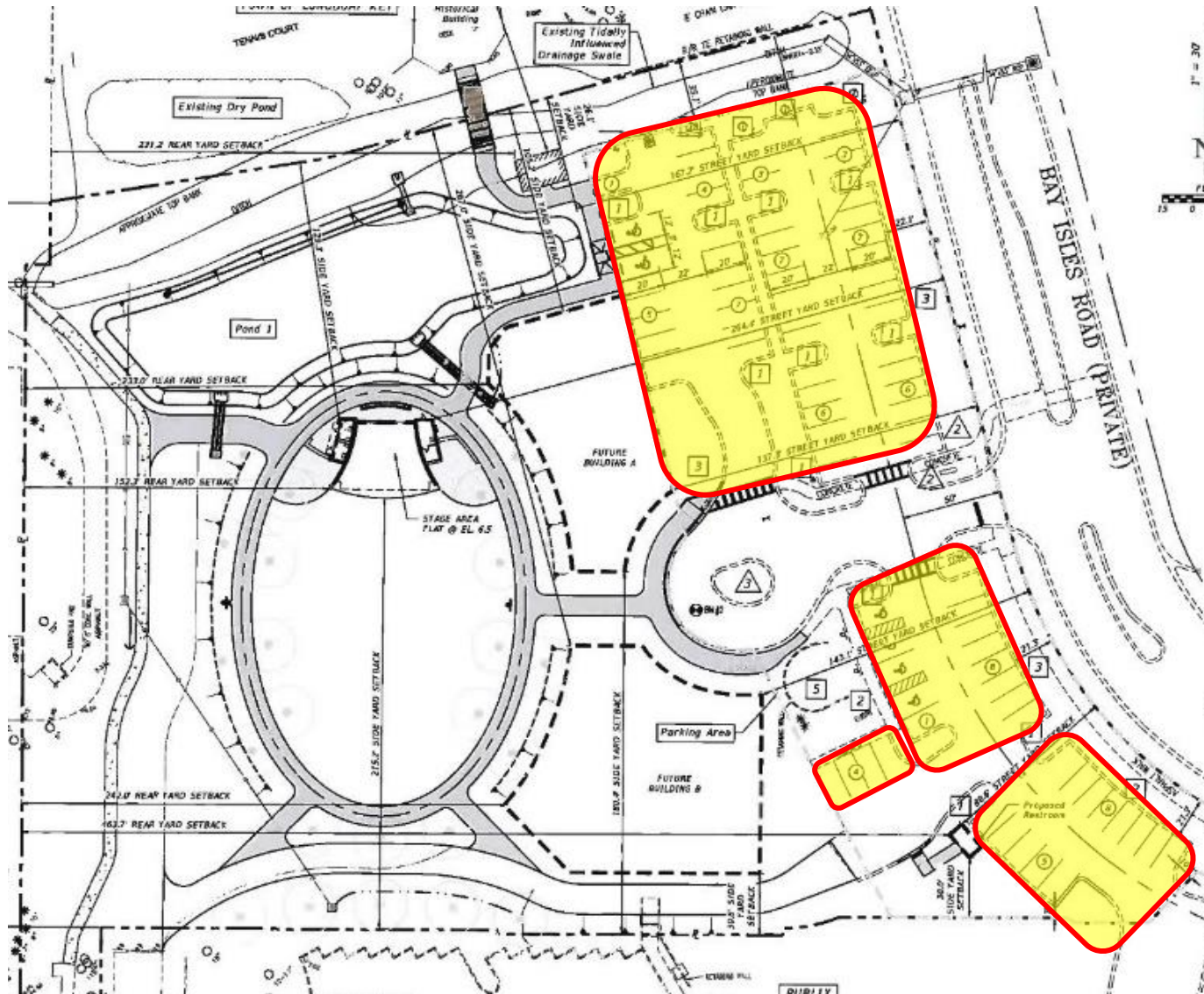
TOWN OF LONGBOAT KEY

Parking and Access

- Town requires a Special Event Permit for any special event that takes place on Town property.
- Proposed condition #7 could be managed and required through the permitting process for special events.

Parking and Access

TOWN OF LONGBOAT KEY





TOWN OF LONGBOAT KEY

Open Space and Lot Coverage

Required Open Space: 50%

Proposed:

- 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)



TOWN OF LONGBOAT KEY

Landscaping

- 14 trees removed.
 - Removal of 14 trees requires the planting of 28 trees
- Planting Plan
 - 22 existing trees
 - 24 four-inch caliber trees
 - 7 palms
- Site will also be landscaped with Pitch Apples and different ornamental grasses.



TOWN OF LONGBOAT KEY

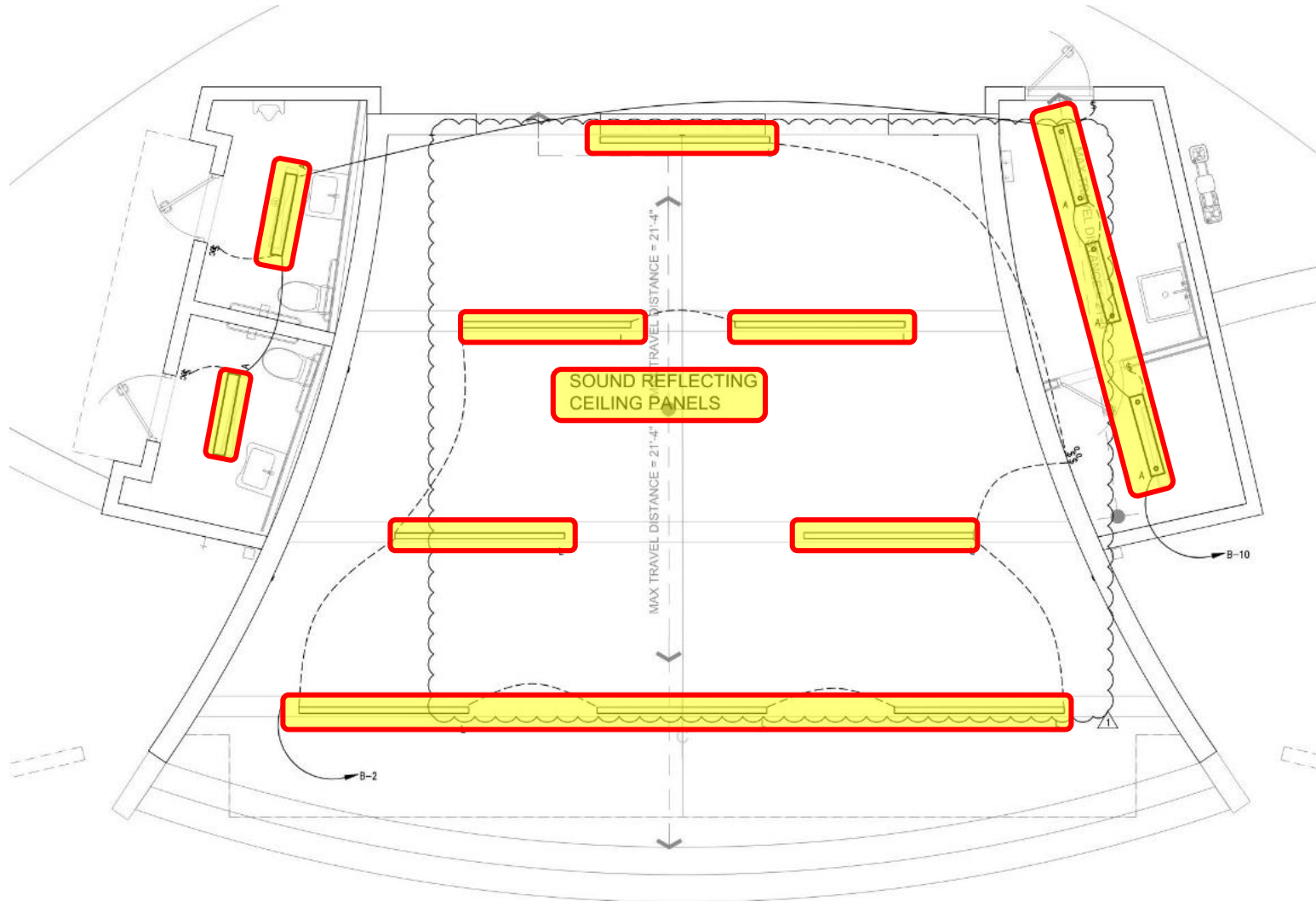
Lighting and Sound

- Proposed lighting plan only includes lighting on the stage.
- Lighting plan does not show lighting on any other part of the site.
- Plan also indicates the installation of sound reflecting panels, which are intended to buffer the sound coming from the stage.



TOWN OF LONGBOAT KEY

Lighting





TOWN OF LONGBOAT KEY

P&Z Board Recommendation

- The P&Z Board voted 6-0 to recommend approval of the PUD and ODP, with 7 conditions.
- The P&Z Board voted 6-0 to recommend approval of the Final Site Plan, with the same 7 conditions that are found in Ordinance 2023-03.



TOWN OF LONGBOAT KEY

Staff Recommendation

PUD/ODP Amendment and Site Development Plan Recommendation:

NOTE: Findings of Fact available in Staff Report

- Staff recommends **APPROVAL** of Ordinance 2023-03 and Site Development Plan Order 2023-01 to define the allowable uses, associated with the Town's phased development of the Town Center Green site and allow for the construction of a pavilion, stage, and accessory structures.
- Seven Conditions of Approval
 - Six conditions are standard (#1-6)
- Forward Ordinance 2023-03 and Site Development Plan Order 2023-01 to the March 6, 2023 Regular Meeting for second reading and public hearing.



TOWN OF LONGBOAT KEY

Site Development Plan Conditions

Condition #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 by the Town of Longboat Key in the plan are:

- 1) Site access and circulation
- 2) Parking management:



TOWN OF LONGBOAT KEY

Site Development Plan Conditions

- 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

End of Agenda Item