SP – 22-0014
SITE PLAN

May 8th, 2023

Clarence Sirmons, Director of Development Services
City of Riviera Beach
600 West Blue Heron Blvd
Riviera Beach, FL 33404

Re: Safe Harbor Rybovich Marina Expansion
Site Plan Submittal

Dear Mr. Sirmons,

On behalf of the owner and application, we are excited to be presenting this new and exciting project to the City of Riviera Beach. The applicant, Safe Harbor Marinas, represents a significant business investment in your growing city. The group has acquired what was previously known as the "Rybovich Marine Facility" and several additional parcels to the north for operational expansion. The facility and parcels are located off Broadway Street corridor, five (5) blocks south of Blue Heron Boulevard, with water access to the intracoastal.

Background

The total site is roughly 21.8 acres, nearly 1 million square feet, and is located generally at 255 E 22nd Ct, Riviera Beach, FL 33404. The future land use (FLU) of the area is a mix of Downtown Mixed Use and Working Waterfront. The existing zoning designation is Downtown Core, Downtown Residential and Downtown Marine. The FLU and Zoning work in tandem to create an area that is compatible with the surrounding parcels and the downtown vision of the city while also maintaining its flexibility in marine oriented development

Through the acquisition of the Rybovich Marine Facility, Safe Harbor Marinas has also inherited the significant business and global customer base associated with the prior owner. Safe Harbor Marinas is fully committed to ensuring the superyacht repair industry remains and grows as a significant asset for the City of Riviera Beach, its downtown business district, and the surrounding working waterfront of complimentary marine industries. A large part of that commitment was recently demonstrated by Safe Harbor's announcement to make the Riviera Beach property their international superyacht headquarters.

Safe Harbor Marinas, as the "applicant", is proposing a footprint of the existing facility that will include current operations, as well as the ability to absorb the entire upland operations of the former Rybovich facility in West Palm Beach. As a result, the City of Riviera Beach will become the international focal point as the largest superyacht repair facility in the United States and the beneficiary of the global recognition that will come with that exposure.

The total site is roughly 21.8 acres, nearly 1 million square feet. The future land use of the area is a mix of Downtown Mixed Use and Working Waterfront. The existing zoning designation is Downtown Core, Downtown Residential and Downtown Marine.

Proposal

The applicant's expansion proposal targets the area from E 21st Street north to E 22nd Court, between Broadway Street in the west and Avenue B in the East. These two blocks are folded into the overall Safe Harbor Rybovich campus site plan and are expected to include additional marine service areas, maintenance buildings, a parking garage, and contractor buildings. The proposed construction will be entirely phased, as this will assist the Safe Harbor Marina in transitioning the West Palm Beach property, making sure all the necessary tools, shops and space is available to perform high quality super-yacht repair.

The new, expanded campus boundary is designed to minimize the typically intense nature of marine industry. Along Broadway Street, the buildings reflect its commercial nature, with taller heights and increased setbacks and streetscapes. To the north, along E 22nd Court, care was taken to provide opaque screening and pedestrian oriented sidewalks, as to blend the transition to the residential neighborhood to the north. Great effort was put into reducing the overall height and scale of the proposed campus, as to reduce any potential concerns of over development and increased intensity. Similarly, the Safe Harbor Team recognizes the need to be functional and useable, especially in the large world of super yacht repair, and as such are quite pleased with the balance provided in the campus.

Additional Requests

As this expansion occurs, it is the request of the applicant to rezone portions of the overall site to remain contiguous and conforming with the adjacent districts and uses of the campus. As it exists today the site is primarily split between the Downtown Core (DC) and Downtown Marina (DM) zoning districts. The proposed rezoning would limit the Downtown Core area to the parcels located along Broadway Street, while most of the site is dedicated to Downtown Marine, for flexibility in site layout and yacht-repair oriented uses. A more detailed description and justification can be found under the Rezoning Application.

There is a Roadway Abandonment Request that is going to be submitted as part of this application package. The abandonment is to allow for the development of a complete site and retain access to a select few entry points.

The following portions of public ROW are being requested to be abandoned:

1) Avenue C
2) 21st Street

A more detailed description and justification can be found under the abandonment application. Additionally, the applicant is requesting a variance to the open space requirements as detailed under the variation application submitted alongside the site plan.

Land Use

As it exists today, the land use for a majority of the parcels included within the expansion are marine oriented, including repair, storage and maintenance. The previous iterations of the marina built out much of the vacant and run-down single-family parcels included in proposed the expansion. As such, this expansion focuses on the redevelopment of those said parcels into a complete site plan, transitioning the block-separated facilities into an easily navigable interior layout.

The land uses proposed within this submittal are all allowable by right per Section 31-536(a)(3) and 31-536(e)(2), *Use Regulations.* The following table details the proposed uses and their respective zoning district:

Building	Use	Zoning District	Permitted
01	Office / Marine Related Business Space for Contractors	Downtown Core	Yes
02	Office / Marine Related Business Space for Contractors	Downtown Core	Yes
04	Marina Maintenance	Downtown Marine	Yes
05	Repair & Servicing	Downtown Marine	Yes
Parking Garage	Parking, Retail, Maintenance	Downtown Marine	Yes
Interior Boat Storage and Repair	Marine Ways & Lifts / Exterior Boat Storage	Downtown Marine	Yes

Site Plan

The expansion site consists of roughly 21.8 acres of dedicated marine services and marine service-related industries to meet the expected increase in demand for super yacht repair. The site is primarily located off Broadway to the west and E 22nd Court to the north. To the south is the Jim Barry Light Harbor Park and to the east is Avenue B and the Viking Yacht Service Facility. The proposed site is oriented internally and will have one primary access point from E 22nd Street heading east towards Avenue B. There is no formal public access from E 22nd Court however there will be an emergency access route from Avenue B that will be gated off.

Along Broadway E 20th Street is to become a private truck entrance; E 21st Street will be abandoned and gated; and E 22nd Street is the main entrance to site, equipped with a guard gate and turn around area. A proposed cut through "Avenue D" will exist just west of the guard gate connecting E 22nd Court and E 22nd Street that will allow the neighborhood access to the light at E 22nd Street without having to go into the site.

Buildings

There are a total of five buildings currently proposed, as well as a large boat storage and repair area. The buildings, as described above in the land use section, all are oriented to serve the Safe Harbor Marina, whether through maintenance and repair, office space or onsite parking. The property development regulations for each of the buildings are listed in the code requirements of Section 31-536; Table 31-536(a) and 31-536(f) *Downtown Core Dimensional Requirements and Downtown Marine Requirements.* The buildings meet all the setback and frontage requirements as detailed in the tables below:

	Building	***Front Setback***	***Rear Setback***	***Side Setback***	***Frontage***	***Height***	***FAR***
Allowed	DC	12 to 15'	10'	0'	75%	2 to 4 Stories	.85
Proposed	01	12'	n/a	48.2'	80%	3 Stories	.14
Allowed	DC	12 to 15'	10'	0'	75%	2 to 4 Stories	.85
Proposed	02	12'	n/a	22.5	91%	3 Stories	.14
Allowed	DM	10 to 15'	20'	0'		1 to 5 Stories	1.15
Proposed	04	10'	n/a	n/a		1 Stories	.14
Allowed	DM	10 to 15'	20'	0'		1 to 5 Stories	1.15
Proposed	05	10'	n/a	n/a		1 Stories	.14
Allowed	DM	10 to 15'	20'	0'		1 to 5 Stories	1.15
Proposed	Parking Garage	10'	n/a	n/a		5 Stories	.14

Pedestrian Orientation:

Although the Safe Harbor Marina is an inherently private and secure facility, design steps were taken to blend the accessibility around the site with the surrounding pedestrian amenities. Sidewalks have been expanded along Broadway, to 10 Feet, and E 22nd Court, to 6 feet. The expanded sidewalk, alongside the proposed street trees and landscape, contributes to a safe and complete walking path. Pedestrians are encouraged to use this new portion of sidewalk rather than the side of the road or be near speeding vehicles along Broadway while

the shaded path will make it more accessible during the day. Connecting to this sidewalk to form a site network is a 6' sidewalk along the south side of E 22nd Street. This section of sidewalk traverses the distance from Broadway to the parking garage and over to the marina facilities along Avenue B, providing a walkable alternative to employees and customers. As part of the closed campus facility, fencing will prevent access to the interior of the facility when walking down E 22nd Court.

Ultimately, the design of the sidewalk around and into the site will set the precedent for future development along Broadway, E 22nd Street, and E 22nd Court by creating a new and walkable space for the area.

Phasing

The development of the site plan is detailed and broken out by four (4) separate phases so that construction can occur within the site without compromising the functionality. Phases are broken out as such:

Phase 1:

- Construct asphalt pad for buildings 04 and 05.
- Construction of 8' Masonry Wall Along E 22nd Court
- Construct maintenance building 04 and associated infrastructure.
- Transfer of General Storage from Areas between E 22nd Street and E 21st Street to the Asphalt Pads.
- Construction of (3) Boat Upland Slips and Associated Utility Infrastructure and Perimeter Fence.
- Construction of Improvements to the Temporary Landscape Buffer Zone located along Broadway.

Phase 2:

- Reconstruct E 22nd Street and Utility Infrastructure.
- Construct Access Improvements to E 22nd Street.
- Construct Avenue D.
- Transition Avenue B from E 22nd Court to E 22nd Street to a 20' wide one way lane.
- Avenue C to be demolished in phase 2 for boat slip installation. Drainage connections between E 22nd Court and E 22nd Street to occur in Phase 2 and expand maintenance area pavement. Remove fences along Avenue C Right of Way and complete streetscape improvements along E 22nd Court
- Construct sidewalk and landscape improvements along E 22nd Court, E 22nd Street and Avenue B Street frontage.
- Construct utility infrastructure for parking garage and proposed boat slip use

- Paint new boat slip stripes.
- Construct parking garage.
- Construct ten (10) boat slips and associated utility infrastructure within the main upland area located between E 22nd Street and the existing boatyard.
- Add trash compactors and dumpster for site use.
- Connect Maintenance Building to new utility infrastructure.
- Construct utility infrastructure for future Building (05).
- Construct civic open space improvements.

Phase 3:

- Construct Building 05 and connect to new infrastructure.
- Demolish existing maintenance and office building along Broadway.
- Construct four (4) boat slips and associated utility infrastructure.

Phase 4:

- Construct Building 01 and associated utility infrastructure.
- Construct Building 02 and associated utility infrastructure.
- Finalize perimeter fence.
- Construct the new Private Amenity and Crew Areas.

Access

Access to the site is provided through E 22nd Street for employees and public visitors with business in the facility. E 22nd Street is to remain public to provide an option for the residents and the business owners in the area to access the E 22nd Street light with little impact to their typical movement pattern. As a part of the ongoing efforts to work with the local neighborhood, the applicant recognizes that there is a concern of site traffic exiting the site via Avenue B and going north to the neighborhood. The applicant is proposing to turn the section of Avenue B from E 22nd Court to E 22nd Street into a one-way southbound lane which will limit an egress from the site. All employee and customer traffic will have to go down E 22nd Street to exit the site while still allowing the neighbors in the east part of the neighborhood access to the light without having to go down E 22nd Court.

For large trucks accessing the site, there will be a gated entrance at the end of 20th street, just after buildings 1 and 2. This will be solely for large trucks needing access to the site and there will be signage that directs them to this access. The goal of the signage is to ultimately discourage any facility trucks from coming near E 22nd Street and ultimately 22nd Court by the residents. This will be an unmanned call-box gate. The gate will remain closed otherwise.

Parking

Parking is provided primarily onsite via parking garage. The parking garage will accommodate 496 spaces in five floors, with entrances off E 22nd Street and Avenue B. The parking structure is oriented towards the interior of the site and is fronting Avenue B, where the primary access is located. The garage will primarily serve the customers and employees of Safe Harbor Marinas. Buildings 01 and 02 will have an additional 37 parking spaces to be used only by the employees of those building.

The applicant is thus required to provide 525 parking spaces on site due to the use demands and is providing 530 accordingly. The additional parking on site will serve to accommodate the shifting facility work from the West Palm Beach Facility. Although difficult to specifically calculate, it is expected that the parking garage will be more than sufficient for the demands of both facilities when merged.

Landscape

The landscape design has been primarily concentrated around areas of public engagement, specifically Broadway, E 22nd Street and Avenue B. The existing site, per Tree Disposition Plan, includes several native Cabbage Palms, Christmas Palms, Sabal Palms, Live Oaks, and Royal Palm species. There are also several non-native species that were prescribed to be removed. In total, 146 trees and 289 palms were removed to allow for a cleaned interior boat storage area. 8 Trees and 16 palms were protected and set to remain on site as is. The replacement plant schedule includes Florida Friendly landscape materials, planted and oriented towards the boundary of the site.

Specific landscape design along each front of roadway as per the code regulations of S*ections 29-65(c), 31-539(e),* and *31-608(c).*

Broadway:

This section is characterized primarily by the 12’ setback with the 10’ sidewalk and tree grates. A fence made opaque with a 36” clusia hedge, will connect the office and contractor buildings to the boat area in the rear and provide a screen to the boats from the public right of way. Street trees have been planted at spaced intervals, within tree grates located in the 10’ sidewalk. These are all yellow elder trees, a species of flowering tree that produces great shade opportunities and meets FPL right tree right place offsets from overhead wires. Between the sidewalk and the buildings are 3 tiers of shrubs with Silver Button Woods and Thatch Palms for an aesthetically attractive looking “South Florida” palette. There are some additional plantings on the sides of the two buildings as well as in the rear however the applicant requests that staff be considerate to the lack of tree plantings in the parking islands located behind buildings 01 and 02. The concern is that any tree close to the fence behind the yachts could potentially cause damage to the yachts during in-climate weather. In lieu of the

trees, the parking islands will still contain sod, low groundcovers, or shrubs and remain in a functional role for separating parking.

A new phase of landscape has been provided which is to be placed along Broadway Street during the initial phasing of the plan. This buffer, which is 20' wide from the back of sidewalk, is intended to buffer the open site along Broadway while the internal redevelopment occurs. This is until such time as buildings 01 and 02 are ready to be constructed and become the buffer necessary for Broadway. The planting pallet is like the section that is expected to be there upon finalization and includes a White Iron Rod fence.

E 22nd Court:
The landscape along this section has been oriented towards the residential area to the north, providing transitionary screening and accessible walk paths for residents to use. Where previously there are was no sidewalk along the south side, the Safe Harbor Marina is proposing a 6-foot sidewalk, with an 6-foot buffer for Street trees and plantings adjacent to the road. These plantings include a variety of trees such as Cabbage Palms, Dahoon Holly, Silver Buttonwood and two tiers of shrubs which provide a secondary buffer to the buildings along the boundary of the property. Behind the sidewalk is a 8' Masonry Wall per the screening requirements of section 31-536(e)(4), which is covered by an additional 36" clusia hedge for complete screening requirements.

E 22nd Street:
The landscape along E 22nd Street is limited as most of the road is internal to the side. The applicant is providing a 5' landscape area on each side of the right of way that includes typical shrub and bush patterns with the occasional double palm. This mimics the landscape design of existing 21st street as currently it exists in a similar ownership situation.

Architecture

Buildings 1 + 2 – Offices, Warehouse, and Workshops

The proposed construction includes two buildings (Buildings 1 + 2) fronting Broadway that will be used for offices and workshop space. The buildings are 3 stories in height with a taller ground floor height. The buildings have been designed in a modern style incorporating areas of glass and metal panels set within white stucco or pre-cast finish with reveal lines to provide façade articulation on the west along Broadway. Corner elements of glass and metal will be visible landmarks for both pedestrians and vehicles traveling on Broadway.

Building 1 is proposed to be 13,000 sf in footprint area. The second floor will be partially mezzanine so the total square footage may range up to 47,000 sf. Building 2 is 14,200 sf in footprint and may also be partially mezzanine for the second-floor level. Total building area

may be up to 49,200 sf. The east façade facing into the property will have overhead bay doors opening to an asphalt drive and parking area for access. North and south facades of both buildings will continue the reveal lines of the west facades with minimal glass openings.

Building 4 – Material Storage

Building 4 will be located on the north side of the property and will not be visible from 22nd Court beyond the landscaping and site wall. The building will be a tent-like structure like those existing on the site roughly 5,575 SF in size. The white tent material gives the appearance of a building structure. The structure will house metal Conex boxes (containers) for storage of materials.

Building 5 – Warehouse and Workshops

Building 5 is proposed new construction to the east of Building 4. The building will be 14,400 sf of warehouse and workshop space. It will be a one-story building with increased height to potentially include a mezzanine within the shops. Building 5 will be concrete block or tilt-wall construction with stucco finish.

Parking Structure

A parking garage is proposed at the southwest corner of E 22nd Street and Avenue B. The original plan had placed the parking garage at the property line however the facility staff and ownership felt that, after meeting with the neighborhood, setting back the garage to the internal of the site would make more sense for all parties involved. This streamlines access from the only access point off E 22nd Street and limits the overall impact of the heigh of the parking garage. Appropriate wall and landscape buffers have been provided along E 22nd Court which limit the eye-level visibility of the parking garage. Renderings have been provided which show the limited public impact the structure would having been setback nearly 150' from the surrounding neighborhood.

A projecting eyebrow element above the storefront gives definition and façade articulation to the street front. The garage will accommodate up to 496 cars within a structure that is 4 stories in height. The open rooftop level is also utilized for parking. Parapet and knee walls at each level will shield vehicle headlights from view. The upper levels of the facades on the west, north, and east will include perforated or metal mesh "Sail" elements. While primarily aesthetic, the "Sails" provide additional screening of the garage in keeping with the marine and yacht industry.

The southeast stair tower of the garage will be topped with a yardarm style flagpole with three flags including a large American Flag. The flags will provide a visual landmark from the Intracoastal Waterway.

We appreciate your consideration of this application package and are available for discussion or meetings to discuss aspects of the exhibits if that would be helpful.

Best Regards.

Liam Sargent

Attachments
Cc: Client

AGENT AUTHORIZATION FORM

Owner(s) of Record: SHM NEW PORT COVE LLC & RBY LLC

STATE OF FLORIDA
COUNTY OF PALM BEACH

BEFORE ME, the undersigned authority personally appeared TIM SARGENT

who, being first duly sworn upon oath and personal knowledge say(s) that they are the owner(s) of record of the following described real property:

SEE ATTACHED PARCEL ID'S

the street address of which is: _____

and that we hereby appoint:

Name: Mike Spruce / Liam Sargent

Address: 1615 South Congress Ave, Suite 201

Telephone: 561-484-5257

as our authorized agent, to file applications and papers with the City of Riviera Beach, and to represent me (us) at any Hearing regarding my (our) interest.

_____ (Seal)

_____ (Seal)

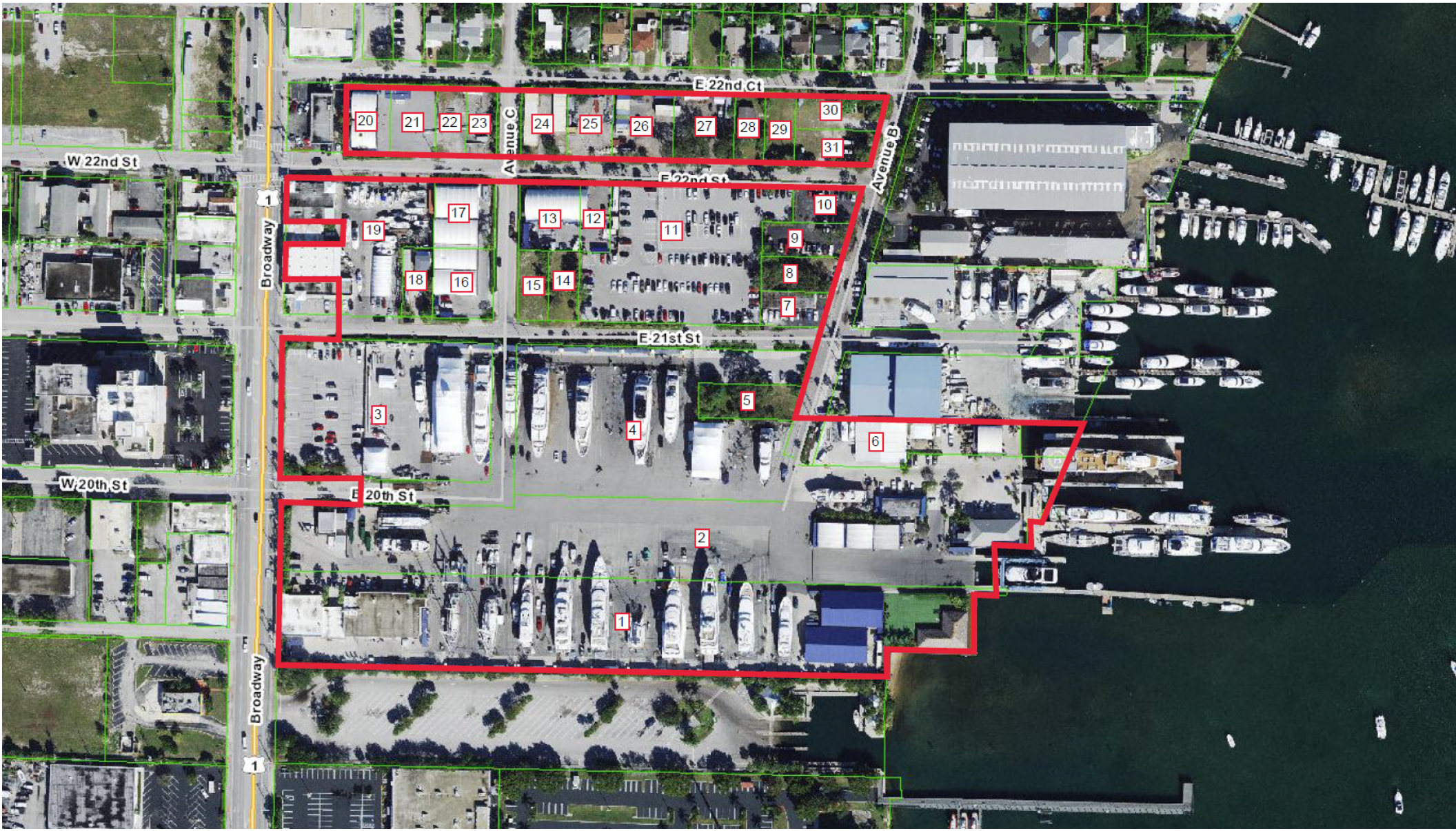
_____ (Seal)

Sworn to and subscribed before me this 29th day of March, 2023.

_____
Notary Public

Notary Public State of Florida
Rafael Andres Botero
My Commission GG 331861
Expires 05/07/2023

Number	Location	PCN	Owner
1	1900 BROADWAY	56434228330000010	RBY LLC
2	1940 AVENUE C	56434228110020041	RBY LLC
3	2035 AVENUE C	56434228110070010	RBY LLC
4	156 E 20TH ST	56434228110050010	RBY LLC
5	2017 AVENUE B	56434228110050030	SHM NEW PORT COVE LLC
6	2100 AVENUE B	56434228110020030	RBY LLC
7	170 E 21ST ST	56434228110040010	SHM NEW PORT COVE LLC
8	AVENUE B	56434228110040020	SHM NEW PORT COVE LLC
9	AVENUE B	56434228110040030	SHM NEW PORT COVE LLC
10	E 22ND ST	56434228110040041	SHM NEW PORT COVE LLC
11	157 E 22ND ST	56434228110040042	RBY LLC
12	117 E 22ND ST	56434228110040150	RBY LLC
13	2160 AVENUE C	56434228110040130	RBY LLC
14	108 E 21ST ST	56434228110040110	RBY LLC
15	100 E 21ST ST	56434228110040120	RBY LLC
16	2101 AVENUE C	56434228110080010	RBY LLC
17	43 E 22ND ST	56434228110080130	RBY LLC
18	34 E 21ST ST	56434228110080030	RBY LLC
19	26 E 21ST ST	56434228110080040	RBY LLC
20	19 E 22ND CT	56434228110030161	RBY LLC
21	30 E 22ND ST	56434228110030150	RBY LLC
22	43 E 22ND CT	56434228110030140	RBY LLC
23	56 E 22ND ST	56434228110030130	RBY LLC
24	103 E 22ND CT	56434228110030101	RBY LLC
25	107 E 22ND CT	56434228110030090	RBY LLC
26	133 E 22ND CT	56434228110030070	RBY LLC
27	148 E 22ND ST	56434228110030050	RBY LLC
28	167 E 22ND CT	56434228110030040	SHM NEW PORT COVE LLC
29	156 E 22ND ST	56434228110030030	SHM NEW PORT COVE LLC
30	E 22ND CT	56434228110030020	SHM NEW PORT COVE LLC
31	E 22ND ST	56434228110030010	SHM NEW PORT COVE LLC


E 22nd Ct
W 22nd St
Avenue C
Avenue B
Broadway
E 22nd St
E 21st St
W 20th St
E 20th St
Broadway
1
20
21
22
23
24
25
26
27
28
29
30
31
17
19
13
12
11
10
9
8
7
18
16
15
14
3
4
5
6
2
1

Community Business Outreach

In response to the Planning and Zoning meeting of March 2023, Eric Hruska with Safe Harbor conducted a personal, one-on-one outreach to the businesses on Broadway who thought they were part of the site plan submittal, which they were not, only an incorrect PCN being listed as one of the site plan attachments.

Mr. Hruska met with each business, except for one (locksmith has not been present or available). Below are the results of the meetings to date.

1. On April 12, 2023, I met with Michael and Nora Mahoney of Dee's Tee's, 2120 Broadway, Rivera Beach at their location. We discussed the PCN concern and basic site plan. They only had a copy of the old Affidavit, which did in fact, have their PCN listed. I assured them that the mistake has been corrected and provided them a copy of the Safe Harbor boundary depiction from the site plan presentation, clearly indicating their property was outside of the Safe Harbor property boundary.

2. On April 7, 2023, I met with Raymond Gilbert of Shell World, 2100 Broadway, Riviera Beach at their location. We discussed the PCN concern and basic site plan. He stated he knew it to be a mix up and understands. I assured him that the mistake has been corrected and provided him a copy of the Safe Harbor boundary depiction from the site plan presentation, clearly indicating his property was outside of the Safe Harbor property boundary.

Kimley»Horn

February 2, 2022
Revised February 1, 2023
Revised May 4, 2023

Terrence N. Bailey, P.E.
City of Riviera Beach
600 W Blue Heron Blvd
Riviera Beach, FL 33404

RE: ***Rybovich Safe Harbor – Traffic Impact Evaluation***
Palm Beach County, Florida
Kimley-Horn #145994004

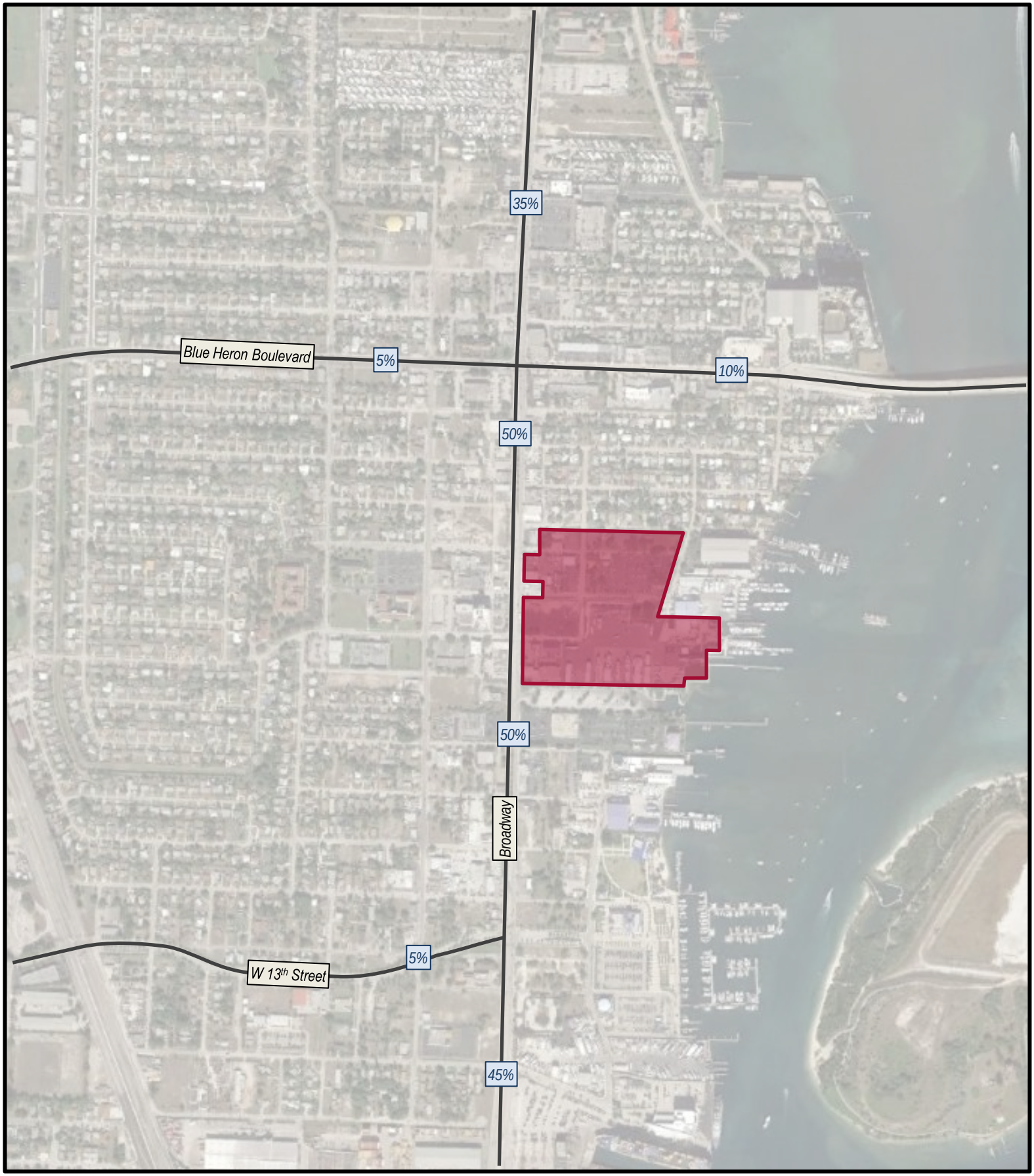
Dear Terrence:

Kimley-Horn and Associates, Inc. has prepared a traffic statement of the above-referenced project. The site is located on the east side of Broadway just north of 19th Street and south of 22nd Court in Riviera Beach, Florida (shown in *Figure 1*). No credit was taken for the existing development, and the site is proposed to be developed into a total of 38 boat berths, 81,798 square feet of light industrial, and 64,090 square feet of general office. The foregoing analysis determines the number of AM and PM peak hour trips that will be generated from the proposed development. *Figure 1* also illustrates the assumed project traffic distribution based on proximity to major roadways and existing roadway geometry.

The parcel control numbers for the site are summarized below:

56-43-42-28-33-000-0010	56-43-42-28-11-004-0150	56-43-42-28-11-003-0130
56-43-42-28-11-002-0041	56-43-42-28-11-004-0130	56-43-42-28-11-003-0101
56-43-42-28-11-007-0010	56-43-42-28-11-004-0110	56-43-42-28-11-003-0090
56-43-42-28-11-005-0010	56-43-42-28-11-004-0120	56-43-42-28-11-003-0070
56-43-42-28-11-005-0030	56-43-42-28-11-008-0010	56-43-42-28-11-003-0050
56-43-42-28-11-002-0030	56-43-42-28-11-008-0130	56-43-42-28-11-003-0040
56-43-42-28-11-004-0010	56-43-42-28-11-008-0030	56-43-42-28-11-003-0030
56-43-42-28-11-004-0020	56-43-42-28-11-008-0040	56-43-42-28-11-003-0020
56-43-42-28-11-004-0030	56-43-42-28-11-003-0161	56-43-42-28-11-003-0010
56-43-42-28-11-004-0041	56-43-42-28-11-003-0150	
56-43-42-28-11-004-0042	56-43-42-28-11-003-0140	

The site is wholly located within the City of Riviera Beach Transportation Concurrency Exception Area (TCEA), which exempts the site from the capacity analysis requirements of the County's Traffic Performance Standards (TPS) as defined in Article 12 of the Palm Beach County Unified Land Development Code (ULDC). Therefore, the following traffic statement has been prepared in accordance with the requirements applicable to properties located in the City of Riviera Beach TCEA.



NORTH

CASE: SP-22-0014

LEGEND

Site Location

FIGURE 1
Safe Harbor Riviera Beach
KH #145994006
Site Location

Kimley»Horn

TRIP GENERATION DETERMINATION

A trip generation determination was prepared to determine the potential impacts of the proposed development. Rates and equations published by the Palm Beach County based on the Institute of Transportation Engineers (ITE) in the *Trip Generation Manual, 11th Edition*, were used to determine the trips generated by the proposed land use. Palm Beach County does not publish trip generation rates for Marina (Land Use 420), therefore rates and equations published from ITE were used for this land use. *Table 1* below summarizes the trip generation calculations for this project.

As shown in *Table 1*, redevelopment of the proposed site results in an increase of 1,075 net new external daily trips, an increase in 145 net new external weekday AM peak hour trip (+126 inbound, +19 outbound), and an increase in 139 new external weekday PM peak hour trips (+25 inbound, +114 outbound).

Table 1: Trip Generation Calculations

Land Use	Intensity	Daily Trips	AM Peak Hour			PM Peak Hour		
			Total	In	Out	Total	In	Out
Proposed Scenario								
Marina	38 Berths	92	3	1	2	8	5	3
Light Industrial	81.798 KSF	398	61	54	7	53	7	46
General Office (10k-250k)	64.090 KSF	695	97	85	12	92	16	76
	Subtotal	*1,185*	*161*	*140*	*21*	*153*	*28*	*125*
Pass-By Capture								
Marina	0.0%	0	0	0	0	0	0	0
Light Industrial	10.0%	40	6	5	1	5	1	4
General Office (10k-250k)	10.0%	70	10	9	1	9	2	7
	Subtotal	*110*	*16*	*14*	*2*	*14*	*3*	*11*
Driveway Volumes		1,185	161	140	21	153	28	125
Net New External Trips		1,075	145	126	19	139	25	114
Proposed Net External Trips-Existing Net New External Trips		1,075	145	126	19	139	25	114
Radius of Development Influence:		2 miles						

Land Use	Daily	AM Peak Hour	PM Peak Hour	Pass By
Marina	2.41 trips/berth	.07 trips/berth (33% in, 67% out)	.21 trips/berth (60% in, 40% out)	0.0%
Light Industrial	4.87 trips/1,000 sf	0.74 trips/1,000 sf (88% in, 12% out)	0.65 trips/1,000 sf (14% in, 86% out)	10.0%
General Office (10k-250k)	10.84 trips/1,000 sf	1.52 trips/1,000 sf (88% in, 12% out)	1.44 trips/1,000 sf (17% in, 83% out)	10.0%

TCEA / CREA STATEMENT

As noted, this site is located both within the City's TCEA; therefore, no Test 1 or Test 2 capacity analyses are required. When the TCEA was created, development intensities were vested for properties within its boundaries and a series of overall transportation mitigation measures and goals were established, which the City continues to oversee and manage.

SIGNIFICANCE ANALYSIS

Based on the traffic generation for this site, it was determined that the radius of developmental influence for this project is 2-miles. The project traffic was added to links within the radius of developmental influence to determine if any links are expected to be significantly impacted. *Table 2* and *Table 3* summarize the AM peak hour and PM peak hour significance analysis, respectively.

Table 2: AM Peak Hour Significance Analysis

ROADWAY	FROM	TO	COMMITTED NUMBER OF LANES	LOS D GENERAL SVC. VOLUME	PROJECT TRIPS							
					PROJECT % ASSIGNMENT	NB/EB IN/OUT?	AM PEAK HOUR					
							TRIPS		% IMPACT			
							NB/EB	SB/WB	NB/EB	Sig?	SB/WB	Sig?
Broadway	Northlake Boulevard	Park Avenue	5L	1,960	30%	o	6	38	0.31%	No	1.94%	Yes
Broadway	Park Avenue	Silver Beach Road	5L	1,770	35%	o	7	44	0.40%	No	2.49%	Yes
Broadway	Silver Beach Road	Blue Heron Boulevard	4LD	1,960	35%	o	7	44	0.36%	No	2.24%	Yes
Broadway	Blue Heron Boulevard	Project Driveway	4LD	1,770	50%	o	10	63	0.56%	No	3.56%	Yes
Broadway	Project Driveway	13th Street	4LD	1,770	50%	i	63	10	3.56%	Yes	0.56%	No
Broadway	13th Street	59th Street	4L	1,860	45%	i	57	9	3.06%	Yes	0.48%	No
Broadway	59th Street	45th Street	4LD	1,960	40%	i	50	8	2.55%	Yes	0.41%	No
Blue Heron Boulevard	Congress Avenue	Australian Avenue	6LD	2,680	5%	i	6	1	0.22%	No	0.04%	No
Blue Heron Boulevard	Australian Avenue	Old Dixie Highway	6LD	2,680	5%	i	6	1	0.22%	No	0.04%	No
Blue Heron Boulevard	Old Dixie Highway	Flagler Highway	4LD	1,770	5%	i	6	1	0.34%	No	0.06%	No
Blue Heron Boulevard	Flagler Highway	Ocean Drive	4LD	1,770	10%	o	2	13	0.11%	No	0.73%	No
13th Street	Australian Avenue	Old Dixie Highway	2L	810	5%	i	6	1	0.74%	No	0.12%	No
13th Street	Old Dixie Highway	Flagler Highway	4LD	1,680	5%	i	6	1	0.36%	No	0.06%	No
President Barack Obama Highway	Silver Beach Road	Blue Heron Boulevard	4L	1,860	5%	o	1	6	0.05%	No	0.32%	No
President Barack Obama Highway	Blue Heron Boulevard	13th Street	4L	1,860	1%	o	0	1	0.00%	No	0.05%	No
President Barack Obama Highway	13th Street	Dr. MLK Jr Boulevard	4L	1,860	1%	i	1	0	0.05%	No	0.00%	No
President Barack Obama Highway	Dr. MLK Jr Boulevard	45th Street	4L	1,860	5%	i	6	1	0.32%	No	0.05%	No
Australian Avenue	Blue Heron Boulevard	13th Street	4LD	1,770	2%	o	0	3	0.00%	No	0.17%	No
Australian Avenue	13th Street	Dr. MLK Jr Boulevard	4LD	1,770	2%	i	3	0	0.17%	No	0.00%	No
Australian Avenue	Dr. MLK Jr Boulevard	45th Street	4LD	1,770	2%	i	3	0	0.17%	No	0.00%	No

Table 3: PM Peak Hour Significance Analysis

ROADWAY	FROM	TO	COMMITTED NUMBER OF LANES	LOS D GENERAL SVC. VOLUME	PROJECT TRIPS							
					PROJECT % ASSIGNMENT	NB/EB IN/OUT?	PM PEAK HOUR					
							TRIPS		% IMPACT			
							NB/EB	SB/WB	NB/EB	Sig?	SB/WB	Sig?
Broadway	Northlake Boulevard	Park Avenue	5L	1,960	30%	o	34	8	1.73%	Yes	0.41%	No
Broadway	Park Avenue	Silver Beach Road	5L	1,770	35%	o	40	9	2.26%	Yes	0.51%	No
Broadway	Silver Beach Road	Blue Heron Boulevard	4LD	1,960	35%	o	40	9	2.04%	Yes	0.46%	No
Broadway	Blue Heron Boulevard	Project Driveway	4LD	1,770	50%	o	57	13	3.22%	Yes	0.73%	No
Broadway	Project Driveway	13th Street	4LD	1,770	50%	i	13	57	0.73%	No	3.22%	Yes
Broadway	13th Street	59th Street	4L	1,860	45%	i	11	51	0.59%	No	2.74%	Yes
Broadway	59th Street	45th Street	4LD	1,960	40%	i	10	46	0.51%	No	2.35%	Yes
Blue Heron Boulevard	Congress Avenue	Australian Avenue	6LD	2,680	5%	i	1	6	0.04%	No	0.22%	No
Blue Heron Boulevard	Australian Avenue	Old Dixie Highway	6LD	2,680	5%	i	1	6	0.04%	No	0.22%	No
Blue Heron Boulevard	Old Dixie Highway	Flagler Highway	4LD	1,770	5%	i	1	6	0.06%	No	0.34%	No
Blue Heron Boulevard	Flagler Highway	Ocean Drive	4LD	1,770	10%	o	11	3	0.62%	No	0.17%	No
13th Street	Australian Avenue	Old Dixie Highway	2L	810	5%	i	1	6	0.12%	No	0.74%	No
13th Street	Old Dixie Highway	Flagler Highway	4LD	1,680	5%	i	1	6	0.06%	No	0.36%	No
President Barack Obama Highway	Silver Beach Road	Blue Heron Boulevard	4L	1,860	5%	o	6	1	0.32%	No	0.05%	No
President Barack Obama Highway	Blue Heron Boulevard	13th Street	4L	1,860	1%	o	1	0	0.05%	No	0.00%	No
President Barack Obama Highway	13th Street	Dr. MLK Jr Boulevard	4L	1,860	1%	i	0	1	0.00%	No	0.05%	No
President Barack Obama Highway	Dr. MLK Jr Boulevard	45th Street	4L	1,860	5%	i	1	6	0.05%	No	0.32%	No
Australian Avenue	Blue Heron Boulevard	13th Street	4LD	1,770	2%	o	2	1	0.11%	No	0.06%	No
Australian Avenue	13th Street	Dr. MLK Jr Boulevard	4LD	1,770	2%	i	1	2	0.06%	No	0.11%	No
Australian Avenue	Dr. MLK Jr Boulevard	45th Street	4LD	1,770	2%	i	1	2	0.06%	No	0.11%	No

DRIVEWAY CLASSIFICATION

Access to the site is proposed to be maintained via Broadway. *Figure 2* illustrates the future total driveway volumes generated by the proposed development during the AM and PM peak hours.

According to Section 300 of the *Palm Beach County Design Standards Manual*, it is necessary to classify project entrances that provide access to the local roadway network as minor, intermediate, or major according to the following criteria:

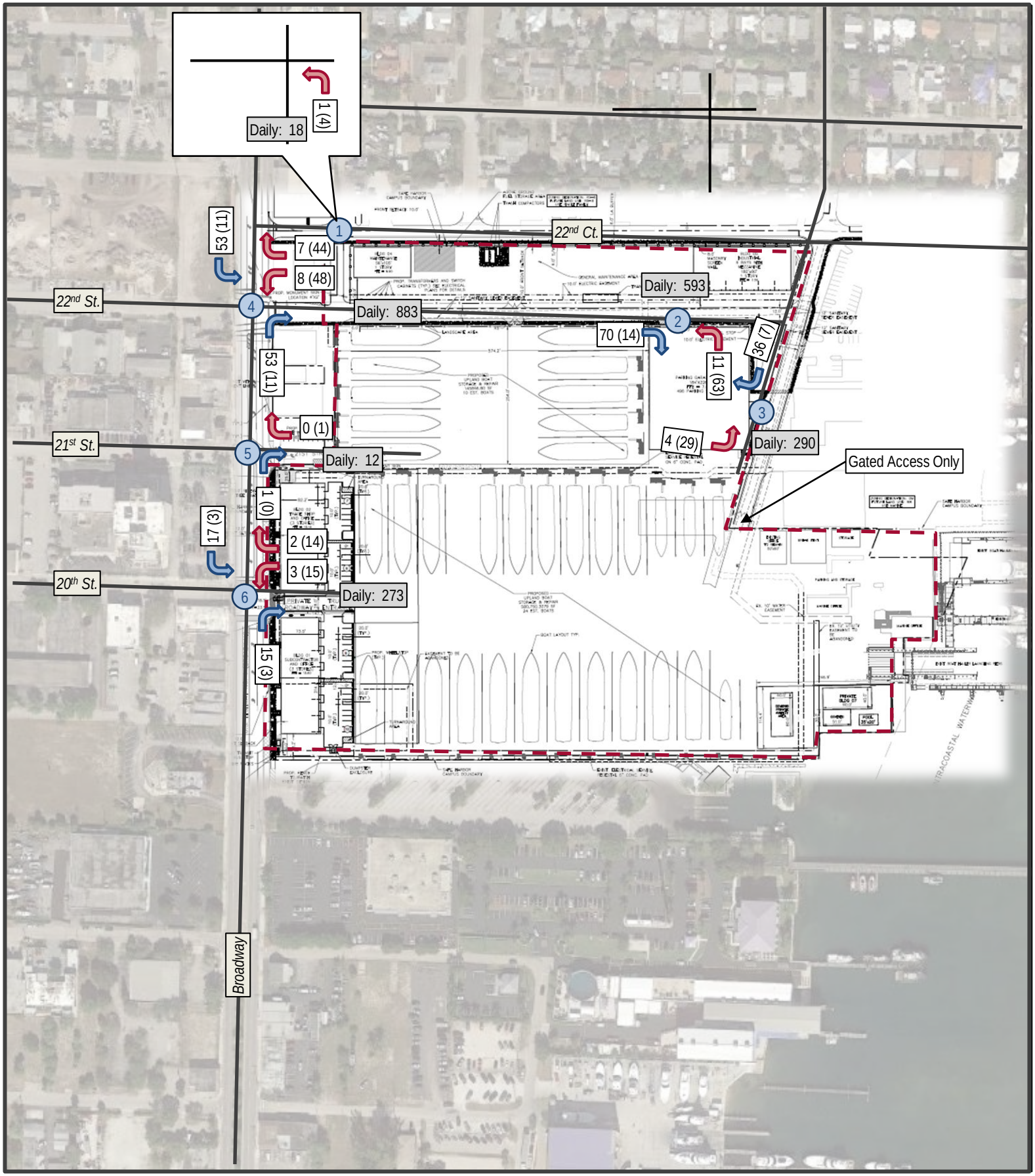
- Minor – Provides services for a maximum average daily traffic of 500 vehicles.
- Intermediate – Provides services for a maximum average daily traffic from 501 to 2,000 vehicles.
- Major – Provides service for a maximum average daily traffic greater than 2,000 vehicles.

Based on these criteria the driveways are classified as follows:

- Driveway 1: Full access (Minor)
- Driveway 2: Full access – Garage Driveway (Intermediate)
- Driveway 3: Full access – Garage Driveway (Minor)

The driveway volumes were compared to the thresholds identified by the Palm Beach County Land Development Division to determine the turn lane requirements of the site's driveways. Section 300 of the *Design Standards Manual* identifies the threshold for installation of a right-turn lane as 75 or more inbound peak hour right-turning vehicles where street average daily traffic volumes exceed 10,000 vehicles per day and the threshold for a left-turn as 30 or more inbound peak hour left-turning vehicles. *Figure 2* illustrates the driveway volumes at each of the project driveways. The right turn threshold for an exclusive turn lane is exceeded at driveway 2, but due to 22nd Street being under the jurisdiction of the City, no exclusive turn lanes are required.

As requested by the City of Riviera Beach the driveway connections on Broadway were further analyzed to determine the 95th percentile queues at each of the driveways. The Future Year AM peak hour analysis results indicated that the queue storage at each of the driveway locations is sufficient to accommodate the future queues. The Future Year PM peak hour analysis results indicated that the queue storage at each of the driveway locations will be sufficient to accommodate the future queues with the exception of the westbound left turn movement at the intersection of 22nd Street & Broadway. The Synchro analysis indicated that the expected 95th percentile queue at this location will be 167 feet and there is approximately 100 feet of storage area between the stop bar and the parking lot. There is additional queue storage located east of the parking lot drive aisle to accommodate additional queue. To mitigate the impact of the queue for residents to the north it is recommended to stripe the effective intersection area of 22nd Street and the parking drive aisle with "Do not block intersection" road striping. Furthermore, Synchro analysis results are included in the Appendix for reference.



NORTH

CASE: SP-22-0014

LEGEND

Site Location

XX (XX) AM (PM) Peak Hour Trips

Inbound / Outbound

FIGURE 2
Safe Harbor Riviera Beach
KH #145994006
Site Location

Kimley»Horn

CONCLUSION

The foregoing statement quantifies the traffic generated by the proposed development. As noted, the project site is located within both the City of West Palm Beach TCEA and the Palm Beach County CREA as defined in Article 12 of the Palm Beach County Unified Land Development Code (ULDC). Therefore, the project is exempt from detailed capacity analysis requirements of the County's Traffic Performance Standards (TPS) as defined in Article 12 of the ULDC.

As is required in Article 12 of the ULDC, traffic assignment has been shown on the roadways within the project's Radius of Development Influence (RDI) of two miles and driveway volumes have been calculated. Volumes at the project's driveways have also been calculated and are shown in this report.

It is recommended to stripe the asphalt at the intersection of 22nd Street and the parking aisle (approximately 100 feet east of Broadway) with "Do not block intersection" striping.

Please contact me via telephone at (561) 840-0874 or via e-mail at adam.kerr@kimley-horn.com should you have any questions regarding this evaluation.

Sincerely,

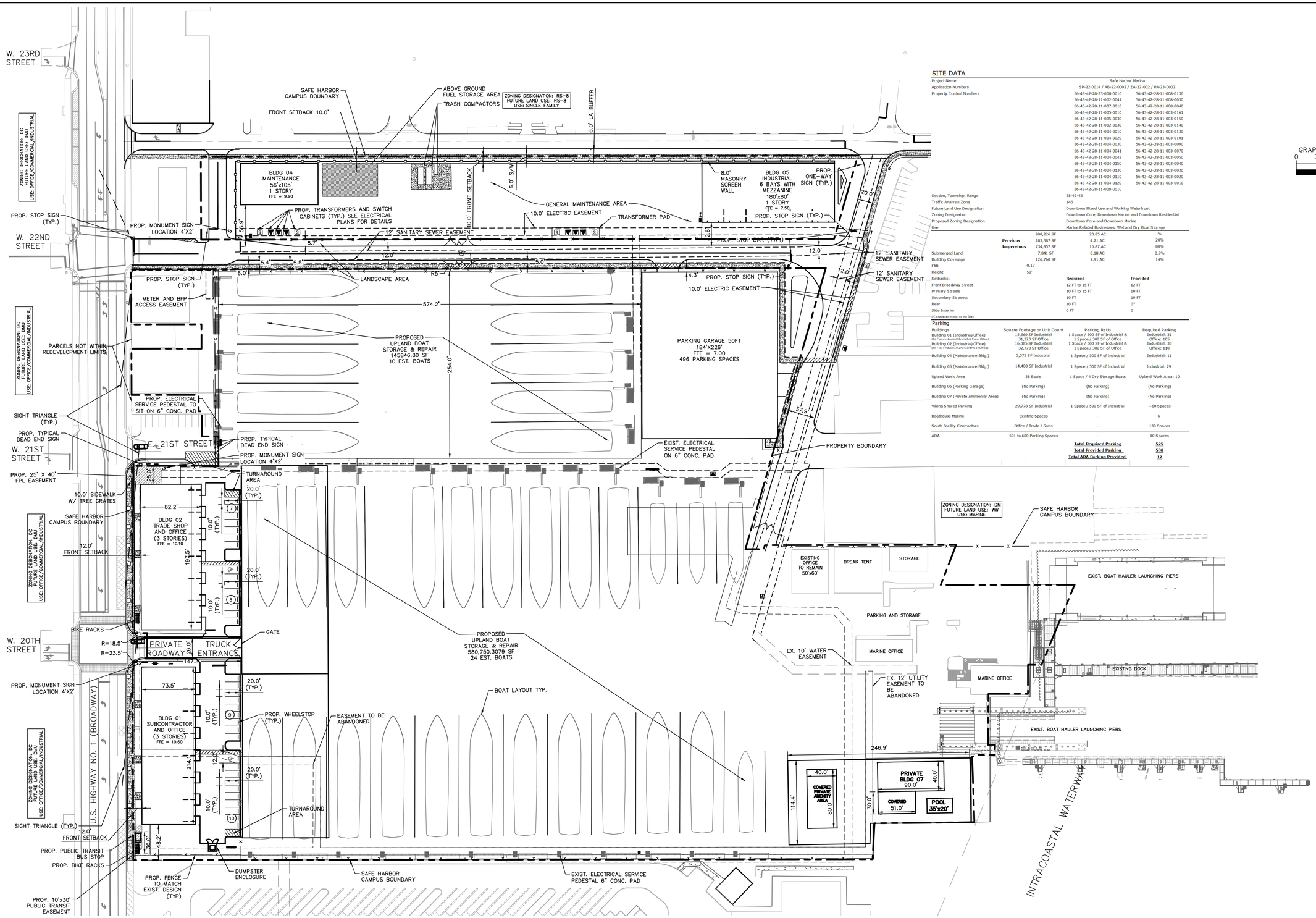
KIMLEY-HORN AND ASSOCIATES, INC.

Digitally signed
by Adam B Kerr
Date: 2023.05.04
15:31:08 -04'00'

Adam B. Kerr, P.E.
Transportation Engineer

Florida Registration
Number 64773
Registry No. 35106

APPENDIX



NOTE: ALL LANDSCAPE ELEMENTS INSTALLED WITHIN THE PUBLIC RIGHT OF WAY SHALL BE THE MAINTENANCE OBLIGATION OF THE PROJECT.

FEMA FLOOD MAP: 12099C0393F
FLOOD ZONE X
100 YEAR FLOOD ELEVATION 6.00 NAVD 1988

SITE DATA

Project Name	Safe Harbor Marina		
Application Numbers	SP-22-0014 / AB-22-0002 / ZA-22-002 / PA-23-0002		
Property Control Numbers	56-43-42-28-33-000-0010	56-43-42-28-11-008-0130	
	56-43-42-28-11-002-0041	56-43-42-28-11-008-0030	
	56-43-42-28-11-007-0010	56-43-42-28-11-008-0040	
	56-43-42-28-11-005-0010	56-43-42-28-11-003-0161	
	56-43-42-28-11-005-0030	56-43-42-28-11-003-0150	
	56-43-42-28-11-002-0030	56-43-42-28-11-003-0140	
	56-43-42-28-11-004-0010	56-43-42-28-11-003-0130	
	56-43-42-28-11-004-0020	56-43-42-28-11-003-0101	
	56-43-42-28-11-004-0030	56-43-42-28-11-003-0090	
	56-43-42-28-11-004-0041	56-43-42-28-11-003-0070	
	56-43-42-28-11-004-0042	56-43-42-28-11-003-0050	
	56-43-42-28-11-004-0150	56-43-42-28-11-003-0040	
	56-43-42-28-11-004-0130	56-43-42-28-11-003-0030	
	56-43-42-28-11-004-0110	56-43-42-28-11-003-0020	
	56-43-42-28-11-004-0120	56-43-42-28-11-003-0010	
	56-43-42-28-11-008-0010		
Section, Township, Range	28-42-43		
Traffic Analysis Zone	146		
Future Land Use Designation	Downtown Mixed Use and Working Waterfront		
Zoning Designation	Downtown Core, Downtown Marine and Downtown Residential		
Proposed Zoning Designation	Downtown Core and Downtown Marine		
Use	Marine Related Businesses, Wet and Dry Boat Storage		

		908,226 SF	20.85 AC	%
	Pervious	183,387 SF	4.21 AC	20%
	Impervious	734,857 SF	16.87 AC	80%
Submerged Land		7,841 SF	0.18 AC	0.9%
Building Coverage		126,760 SF	2.91 AC	14%
FAR		0.17		
Height		50'		

Setbacks:	Required	Provided
Front Broadway Street	12 FT to 15 FT	12 FT
Primary Streets	10 FT to 15 FT	10 FT
Secondary Streeets	10 FT	10 FT
Rear	10 FT	0*
Side Interior	0 FT	0

(*Considered Interior to the Site)

Parking

Buildings	Square Footage or Unit Count	Parking Ratio	Required Parking
Building 01 (Industrial/Office) (1st Floor Industrial/ 2nd& 3rd Floor Office)	15,660 SF Industrial 33,320 SF Office	1 Space / 500 SF of Industrial & 1 Space / 300 SF of Office	Industrial: 31 Office: 105
Building 02 (Industrial/Office) (1st Floor Industrial/ 2nd& 3rd Floor Office)	16,385 SF Industrial 32,770 SF Office	1 Space / 500 SF of Industrial & 1 Space / 300 SF of Office	Industrial: 33 Office: 110
Building 04 (Maintenance Bldg.)	5,575 SF Industrial	1 Space / 500 SF of Industrial	Industrial: 11
Building 05 (Maintenance Bldg.)	14,400 SF Industrial	1 Space / 500 SF of Industrial	Industrial: 29
Upland Work Area	38 Boats	1 Space / 4 Dry Storage Boats	Upland Work Area: 10
Building 06 (Parking Garage)	(No Parking)	(No Parking)	(No Parking)
Building 07 (Private Ammenity Area)	(No Parking)	(No Parking)	(No Parking)
Viking Shared Parking	29,778 SF Industrial	1 Space / 500 SF of Industrial	~60 Spaces
Boathouse Marine	Existing Spaces	-	6
South Facility Contractors	Office / Trade / Subs	-	130 Spaces
ADA	501 to 600 Parking Spaces	-	10 Spaces
		Total Required Parking	**525**
		Total Provided Parking	**530**
		Total ADA Parking Provided	**12**

NORTH

GRAPHIC SCALE IN FEET
0 30 60 120

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
MICHAEL D. SPRUCE, P.E.
FL LICENSE NUMBER
52776
DATE:

KHA PROJECT 145994004	DESIGNED BY JPL
DATE MAY 2023	DRAWN BY AMS
SCALE AS SHOWN	CHECKED BY MDS

SITE PLAN

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS FL
RIVIERA BEACH

SHEET NUMBER
P-100

Plotted By:Ellis, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:P-100 SITE PLAN May 18, 2023 02:33:22pm K:\ved_civil\145994004 — safe harbor riviera beach\CAD\plansheets\C-400 SITE PLAN.dwg
Use of and improper reliance on this document without written authorization and adoption by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and

CONTROLLER TIME SHEET

DATE TIMING INSTALLED: _____

INTERSECTION:	W 22ND ST & US-1	CONTROLLER TYPE:	NAZTEC
SIGNAL #	20497	SYSTEM #	983

PHASE NUMBER	BOUND	TIMING INTERVAL												
		MIN GREEN	GAP EXT	MAX 1	MAX 2	YEL CLR	RED CLR	WALK	PED CLR	MIN RCL	MAX RCL	PED RCL	PHASE ENABLE	LOCKED CALLS	DETECTOR SETTINGS
1	NBLT	4.0	2.0	15.0		4.0	2.0	0.0	0.0	0			1	0	OD1=NORMAL
2	SB	15.0	4.0	45.0		4.0	2.0	7.0	10.0	1			1	1	OD2=NORMAL
3															
4	WB	6.0	2.0	20.0		4.0	2.0	5.0	15.0	0			1	0	OD4=D/N(5)
5	SBLT	4.0	2.0	15.0		4.0	2.0	0.0	0.0	0			1	0	OD5=NORMAL
6	NB	15.0	4.0	45.0		4.0	2.0	7.0	10.0	1			1	1	OD6=NORMAL
7															
8	EB	6.0	2.0	20.0		4.0	2.0	5.0	15.0	0			1	0	OD8=D/N(5)

PRE-EMPTION TIMING								
	DELAY BEFORE	GREEN BEFORE	PRE-EMPT 1 LOCK MEMORY	TRACK CLR Φ	TRACK CLR GREEN	DWELL Φ	MIN DWELL	EXIT Φ
R/R								
BRIDGE								
FIRE STN								
BUS								

SPECIAL FUNCTIONS					
START Φ	DUAL ENTRY	DET SWITCH	OUT OF FLASH	INTO FLASH	
2,6	2,4,6,8	1,5	2,6	4,8	

Notes:

1. *REFER TO SYSTEM TIMING AND ALT TIMING PLANS*
2. *CHANGE ON OFFSETS*
3. *PLEASE MATCH THE CONTROLLER TIME OF BROADWAY/BLUE HERON, BRODAWAY/22nd STREET AND BROADWAY/20TH STREET*
4.

TIMING DESIGNED BY:	SUNIL GYAWALI, P.E	DATE:	5/4/2020	APPROVED BY:	LEE GAO, P.E PTOE	DATE:	5/5/2020

SYSTEM TIMING SHEET

DATE TIMING INSTALLED: _____

INTERSECTION:	W 22ND ST & US-1			CONTROLLER TYPE:	NAZTEC
SYSTEM:	US-1	SIGNAL #	20497	SYSTEM #	983

TOD SCHEDULER

WEEKDAY				WEEKEND							
				SATURDAY				SUNDAY			
TIME	PATTERN	TIME	PATTERN	TIME	PATTERN	TIME	PATTERN	TIME	PATTERN	TIME	PATTERN
0:00	100	7:00	2	0:00	100	8:00	4	0:00	100	8:00	4
9:00	4	11:00	1	9:00	1	19:30	4	9:00	1	19:30	4
15:30	3	18:00	1	21:30	100			21:30	100		
19:00	4	21:30	100								

TIMING PLANS

PATTERN		1		2		3		4		5		6	
CYCLE LENGTH (SEC)		120		130		160		100					
OFFSET (SEC)		29		0		150		60					
COORDINATED PHASE		2		2		2		2					
SEQUENCE		1		1		1		1					
ALT TIMING PLAN		1		2		3		4					
		SPLIT	MODE	SPLIT	MODE	SPLIT	MODE	SPLIT	MODE	SPLIT	MODE	SPLIT	MODE
FORCE-OFF 1 (SEC)	NBLT	20	NON	20	NON	22	NON	18	NON				
FORCE-OFF 2 (SEC)	SB	70	MAX	80	MAX	103	MAX	53	MAX				
FORCE-OFF 3 (SEC)	EBLT		NON		NON		NON		NON				
FORCE-OFF 4 (SEC)	WB	30	NON	30	NON	35	NON	29	NON				
FORCE-OFF 5 (SEC)	SBLT	20	NON	20	NON	22	NON	18	NON				
FORCE-OFF 6 (SEC)	NB	70	MAX	80	MAX	103	MAX	53	MAX				
FORCE-OFF 7 (SEC)	WBLT		NON		NON		NON		NON				
FORCE-OFF 8 (SEC)	EB	30	NON	30	NON	35	NON	29	NON				

Special Features:

1)
2)
3)

TIMING DESIGNED BY:	SUNIL GYAWALI, P.E	DATE:	5/4/2020
APPROVED BY:	LEE GAO, P.E PTOE	DATE:	5/5/2020

[1.1.6.1] ALTERNATE TIMING SHEET

INTERSECTION:	W 22ND ST & US-1										SIGNAL #	20497								SYSTEM #	983
	MIN GREEN	GAP TIME	MAX 1	MAX 2	YELLOW	RED CLEAR	WALK	PED CLEAR	ASSIGNED PHASE	BIKE CLEAR		MIN GREEN	GAP TIME	MAX 1	MAX 2	YELLOW	RED CLEAR	WALK	PED CLEAR	ASSIGNED PHASE	BIKE CLEAR
	ALT TIMING PLAN 1											ALT TIMING PLAN 2									
1	4.0	2.0	15.0	10.0	4.0	2.0	0.0	0.0	1		1	4.0	2.0	15.0	10.0	4.0	2.0	0.0	0.0	1	
2	6.0	4.0	60.0	30.0	4.0	2.0	7.0	10.0	2		2	6.0	4.0	75.0	35.0	4.0	2.0	7.0	10.0	2	
3									3		3									3	
4	6.0	2.0	25.0	15.0	4.0	2.0	5.0	15.0	4		4	6.0	2.0	25.0	15.0	4.0	2.0	5.0	15.0	4	
5	4.0	2.0	15.0	10.0	4.0	2.0	0.0	0.0	5		5	4.0	2.0	15.0	10.0	4.0	2.0	0.0	0.0	5	
6	6.0	4.0	60.0	30.0	4.0	2.0	7.0	10.0	6		6	6.0	4.0	75.0	35.0	4.0	2.0	7.0	10.0	6	
7									7		7									7	
8	6.0	2.0	25.0	15.0	4.0	2.0	5.0	15.0	8		8	6.0	2.0	25.0	15.0	4.0	2.0	5.0	15.0	8	

	MIN GREEN	GAP TIME	MAX 1	MAX 2	YELLOW	RED CLEAR	WALK	PED CLEAR	ASSIGNED PHASE	BIKE CLEAR		MIN GREEN	GAP TIME	MAX 1	MAX 2	YELLOW	RED CLEAR	WALK	PED CLEAR	ASSIGNED PHASE	BIKE CLEAR
	ALT TIMING PLAN 3											ALT TIMING PLAN 4									
1	4.0	2.0	20.0	10.0	4.0	2.0	0.0	0.0	1		1	4.0	2.0	15.0	10.0	4.0	2.0	0.0	0.0	1	
2	6.0	4.0	90.0	40.0	4.0	2.0	7.0	10.0	2		2	6.0	4.0	50.0	30.0	4.0	2.0	7.0	10.0	2	
3									3		3									3	
4	6.0	2.0	30.0	15.0	4.0	2.0	5.0	15.0	4		4	6.0	2.0	25.0	15.0	4.0	2.0	5.0	15.0	4	
5	4.0	2.0	20.0	10.0	4.0	2.0	0.0	0.0	5		5	4.0	2.0	15.0	10.0	4.0	2.0	0.0	0.0	5	
6	6.0	4.0	90.0	40.0	4.0	2.0	7.0	10.0	6		6	6.0	4.0	50.0	30.0	4.0	2.0	7.0	10.0	6	
7									7		7									7	
8	6.0	2.0	30.0	15.0	4.0	2.0	5.0	15.0	8		8	6.0	2.0	25.0	15.0	4.0	2.0	5.0	15.0	8	

	MIN GREEN	GAP TIME	MAX 1	MAX 2	YELLOW	RED CLEAR	WALK	PED CLEAR	ASSIGNED PHASE	BIKE CLEAR
	ALT TIMING PLAN 5									
1										
2										
3										
4										
5										
6										
7										
8										

	ALT TIMING PLAN ASSIGNMENTS
ALT TIMING PLAN 1	PATTERN 1
ALT TIMING PLAN 2	PATTERN 2
ALT TIMING PLAN 3	PATTERN 3
ALT TIMING PLAN 4	PATTERN 4
ALT TIMING PLAN 5	

NOTES;			
TIMING DESIGNED BY:	SUNIL GYAWALI, P.E	DATE	5/4/2020
APPROVED BY:	LEE GAO, P.E PTOE	DATE	5/5/2020

CONTROLLER TIME SHEET

DATE TIMING INSTALLED: _____

INTERSECTION:	20TH STREET AND US-1	CONTROLLER TYPE:	NAZTEC
SIGNAL #	20500	SYSTEM #	980

PHASE NUMBER	BOUND	TIMING INTERVAL													
		MIN GREEN	GAP EXT	MAX 1	MAX 2	YEL CLR	RED CLR	WALK	PED CLR	MIN RCL	MAX RCL	PED RCL	PHASE ENABLE	LOCKED CALLS	DETECTOR SETTINGS
1															
2	SB	15.0	4.0	50.0		4.0	2.0	0.0	0.0	1			1	1	L2:NORMAL
3															
4	WB	6.0	2.0	25.0		4.0	2.0	7.0	16.0	0			1		L4:D/N(5)
5	SBLT	4.0	2.0	15.0		4.0	2.0			0			1		L5: NORMAL
6	NB	15.0	4.0	50.0		4.0	2.0	0.0	0.0	1			1	1	L6:NORMAL
7															
8	EB	6.0	2.0	25.0		4.0	2.0	7.0	15.0	0			1		L8:D/N(5)

PRE-EMPTION TIMING								
	DELAY BEFORE	GREEN BEFORE	PRE-EMPT LOCK	TRACK CLR Φ	TRACK CLR GREEN	DWELL Φ	MIN DWELL	EXIT Φ
R/R								
BRIDGE								
FIRE STN								
BUS								

SPECIAL FUNCTIONS						
	START Φ	DUAL ENTRY	DET SWITCH	OUT OF FLASH	INTO FLASH	
	2,6	2,4,6,8	5	2,6	4,8	

Notes:
1. *UPDATED TIME SHEET*
2. *CHANGE IN MAX 1 TIMES, SCHEDULER*
3. *OFFLINE CONTROLLER: PLEASE SYNC CLOCK TO NEAREST INTERSECTION (US1 AND 22nd STREET)*
4.

TIME SHEET CREATED BY:	SUNIL GYAWALI, P.E.	DATE:	6/11/2020	APPROVED BY:	RASEM AWWAD, P.E., PTOE	DATE:	6/16/20

SYSTEM TIMING SHEET

DATE TIMING INSTALLED: _____

INTERSECTION:	20TH STREET AND US-1			CONTROLLER TYPE:	NAZTEC
SYSTEM:		SIGNAL #	20500	SYSTEM #	980

TOD SCHEDULER											
WEEKDAY				WEEKEND							
				SATURDAY				SUNDAY			
TIME	PATTERN	TIME	PATTERN	TIME	PATTERN	TIME	PATTERN	TIME	PATTERN	TIME	PATTERN
0:00	100	7:00	2	0:00	100	8:00	4	0:00	100	8:00	4
9:00	4	11:00	1	9:00	1	19:30	4	9:00	1	19:30	4
15:30	3	18:00	1	21:30	100			21:30	100		
19:00	4	21:30	100								

TIMING PLANS													
PATTERN		1		2		3		4		5		6	
CYCLE LENGTH (SEC)		120		130		160		100					
OFFSET (SEC)		20		4		146		13					
COORDINATED PHASE		2		2		2		2					
SEQUENCE		1		1		1		1					
ALT TIMING PLAN		1		2		3		4					
		SPLIT	MODE	SPLIT	MODE	SPLIT	MODE	SPLIT	MODE	SPLIT	MODE	SPLIT	MODE
FORCE-OFF 1 (SEC)	NBLT		NON		NON		NON		NON		NON		NON
FORCE-OFF 2 (SEC)	SB	90	MAX	100	MAX	130	MAX	70	MAX		MAX		MAX
FORCE-OFF 3 (SEC)	EBLT		NON		NON		NON		NON		NON		NON
FORCE-OFF 4 (SEC)	WB	30	NON	30	NON	30	NON	30	NON		NON		NON
FORCE-OFF 5 (SEC)	SBLT	20	NON	20	NON	20	NON	20	NON		NON		NON
FORCE-OFF 6 (SEC)	NB	70	MAX	80	MAX	110	MAX	50	MAX		MAX		MAX
FORCE-OFF 7 (SEC)	WBLT		NON		NON		NON		NON		NON		NON
FORCE-OFF 8 (SEC)	EB	30	NON	30	NON	30	NON	30	NON		NON		NON

Special Features:

1)

2)

3)

TIME SHEET CREATED	SUNIL GYAWALI, P.E.	DATE:	6/11/2020
APPROVED BY:	RASEM AWWAD, P.E., PTOE	DATE:	6/16/20

[1.1.6.1] ALTERNATE TIMING SHEET

INTERSECTION:	20TH STREET AND US-1	SIGNAL #	20500	SYSTEM #	980

ALT TIMING PLAN 1

	MIN GREEN	GAP TIME	MAX 1	MAX 2	YELLOW	RED CLEAR	WALK	PED CLEAR	ASSIGNED PHASE	BIKE CLEAR
1										
2	20.0	4.0	50.0	45.0	4.0	2.0	0.0	0.0	2	
3										
4	6.0	2.0	8.0	10.0	4.0	2.0	7.0	16.0	4	
5	4.0	2.0	15.0	8.0	4.0	2.0	0.0	0.0	5	
6	20.0	4.0	50.0	45.0	4.0	2.0	0.0	0.0	6	
7										
8	6.0	2.0	15.0	10.0	4.0	2.0	7.0	15.0	8	

ALT TIMING PLAN 2

	MIN GREEN	GAP TIME	MAX 1	MAX 2	YELLOW	RED CLEAR	WALK	PED CLEAR	ASSIGNED PHASE	BIKE CLEAR
1										
2	20.0	4.0	50.0	45.0	4.0	2.0	0.0	0.0	2	
3										
4	6.0	2.0	8.0	10.0	4.0	2.0	7.0	16.0	4	
5	4.0	2.0	15.0	8.0	4.0	2.0	0.0	0.0	5	
6	20.0	4.0	50.0	45.0	4.0	2.0	0.0	0.0	6	
7										
8	6.0	2.0	15.0	10.0	4.0	2.0	7.0	15.0	8	

ALT TIMING PLAN 3

	MIN GREEN	GAP TIME	MAX 1	MAX 2	YELLOW	RED CLEAR	WALK	PED CLEAR	ASSIGNED PHASE	BIKE CLEAR
1										
2	20.0	4.0	50.0	45.0	4.0	2.0	0.0	0.0	2	
3										
4	6.0	2.0	8.0	10.0	4.0	2.0	7.0	16.0	4	
5	4.0	2.0	15.0	8.0	4.0	2.0	0.0	0.0	5	
6	20.0	4.0	50.0	45.0	4.0	2.0	0.0	0.0	6	
7										
8	6.0	2.0	15.0	10.0	4.0	2.0	7.0	15.0	8	

ALT TIMING PLAN 4

	MIN GREEN	GAP TIME	MAX 1	MAX 2	YELLOW	RED CLEAR	WALK	PED CLEAR	ASSIGNED PHASE	BIKE CLEAR
1										
2	20.0	4.0	50.0	45.0	4.0	2.0	0.0	0.0	2	
3										
4	6.0	2.0	8.0	10.0	4.0	2.0	7.0	16.0	4	
5	4.0	2.0	15.0	8.0	4.0	2.0	0.0	0.0	5	
6	20.0	4.0	50.0	45.0	4.0	2.0	0.0	0.0	6	
7										
8	6.0	2.0	15.0	10.0	4.0	2.0	7.0	15.0	8	

ALT TIMING PLAN 5

	MIN GREEN	GAP TIME	MAX 1	MAX 2	YELLOW	RED CLEAR	WALK	PED CLEAR	ASSIGNED PHASE	BIKE CLEAR
1										
2										
3										
4										
5										
6										
7										
8										

ALT TIMING PLAN ASSIGNMENTS

ALT TIMING PLAN 1	PATTERN 1
ALT TIMING PLAN 2	PATTERN 2
ALT TIMING PLAN 3	PATTERN 3
ALT TIMING PLAN 4	PATTERN 4
ALT TIMING PLAN 5	

NOTES;

TIME SHEET CREATED BY:	SUNIL GYAWALI, P.E.	DATE	6/11/2020
APPROVED BY:	RASEM AWWAD, P.E., PTOE	DATE	6/16/20

VOLUME DEVELOPMENT SHEET
SAFE HARBOR RIVIERA BEACH
Broadway & 22nd Street
EXISTING GEOMETRY

Growth Rate = 1.00%
Peak Season = 1.06
Buildout Year = 2027
Years = 5

AM Peak Hour

	Northbound			Southbound			Eastbound			Westbound			
	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT	
Existing Volume on 1/26/2022	22	800	7	75	1,099	6	9	2	8	37	1	2	2,022
Peak Season Volume	23	848	7	80	1,165	6	10	2	8	39	1	2	
Traffic Volume Growth	1	43	0	4	59	0	1	0	0	2	0	0	
Committed Development													
1.0% Traffic Volume Growth	1	43	0	4	59	0	1	0	0	2	0	0	
Committed + 1.0% Growth	1	43	0	4	59	0	1	0	0	2	0	0	
Max (Committed + 1.0% or Historic Growth)	1	43	0	4	59	0	1	0	0	2	0	0	
Background Traffic Volumes	24	891	7	84	1,224	6	11	2	8	41	1	2	
Project Traffic													
Inbound Traffic Assignment		12.0%	38.0%	38.0%	15.0%								Inbound
Inbound Traffic Volumes		17	53	53	21								140
Outbound Traffic Assignment		12.0%								38.0%		35.0%	Outbound
Outbound Traffic Volumes		3								8		7	21
Project Traffic	0	20	53	53	21	0	0	0	0	8	0	7	
Total Traffic w/o RTOR	24	911	60	137	1,245	6	11	2	8	49	1	9	
RTOR Reduction			(60)			(60)			(60)			(60)	
TOTAL TRAFFIC	24	911	0	137	1,245	0	11	2	0	49	1	0	

PM Peak Hour

	Northbound			Southbound			Eastbound			Westbound			
	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT	
Existing Volume on 1/26/2022	31	1,087	9	26	974	12	9	2	11	45	7	32	2,022
Peak Season Volume	33	1,152	10	28	1,032	13	10	2	12	48	7	34	
Traffic Volume Growth	2	59	1	1	53	1	1	0	1	2	0	2	
Committed Development													
1.0% Traffic Volume Growth	2	59	1	1	53	1	1	0	1	2	0	2	
Committed + 1.0% Growth	2	59	1	1	53	1	1	0	1	2	0	2	
Max (Committed + 1.0% or Historic Growth)	2	59	1	1	53	1	1	0	1	2	0	2	
Background Traffic Volumes	35	1,211	11	29	1,085	14	11	2	13	50	7	36	
Project Traffic													
Inbound Traffic Assignment		12.0%	38.0%	38.0%	15.0%								Inbound
Inbound Traffic Volumes		3	11	11	4								28
Outbound Traffic Assignment		12.0%								38.0%		35.0%	Outbound
Outbound Traffic Volumes		15								48		44	125
Project Traffic	0	18	11	11	4	0	0	0	0	48	0	44	
Total Traffic w/o RTOR	35	1,229	22	40	1,089	14	11	2	13	98	7	80	
RTOR Reduction			(60)			(60)			(60)			(60)	
TOTAL TRAFFIC	35	1,229	0	40	1,089	0	11	2	0	98	7	20	

VOLUME DEVELOPMENT SHEET
SAFE HARBOR RIVIERA BEACH
Broadway & 20th Street
EXISTING GEOMETRY

Growth Rate = 1.00%
Peak Season = 1.06
Buildout Year = 2027
Years = 6

AM Peak Hour

	Northbound			Southbound			Eastbound			Westbound			
	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT	
Existing Volume on 12/14/2021	17	887	1	5	1,175	10	10	0	22	0	0	1	2,021
Peak Season Volume	18	940	1	5	1,246	11	11	0	23	0	0	1	
Traffic Volume Growth	1	58	0	0	77	1	1	0	1	0	0	0	
Committed Development													
1.0% Traffic Volume Growth	1	58	0	0	77	1	1	0	1	0	0	0	
Committed + 1.0% Growth	1	58	0	0	77	1	1	0	1	0	0	0	
Max (Committed + 1.0% or Historic Growth)	1	58	0	0	77	1	1	0	1	0	0	0	
Background Traffic Volumes	19	998	1	5	1,323	12	12	0	24	0	0	1	
Project Traffic													
Inbound Traffic Assignment		39.0%	11.0%	12.0%									Inbound
Inbound Traffic Volumes		55	15	17									140
Outbound Traffic Assignment					38.0%					12.0%		11.0%	Outbound
Outbound Traffic Volumes					8					3		2	21
Project Traffic	0	55	15	17	8	0	0	0	0	3	0	2	
Total Traffic w/o RTOR	19	1,053	16	22	1,331	12	12	0	24	3	0	3	
RTOR Reduction			(60)			(60)			(60)			(60)	
TOTAL TRAFFIC	19	1,053	0	22	1,331	0	12	0	0	3	0	0	

PM Peak Hour

	Northbound			Southbound			Eastbound			Westbound			
	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT	
Existing Volume on 12/14/2021	29	1,151	0	2	1,122	13	16	0	21	5	1	4	2,021
Peak Season Volume	31	1,220	0	2	1,189	14	17	0	22	5	1	4	
Traffic Volume Growth	2	75	0	0	73	1	1	0	1	0	0	0	
Committed Development													
1.0% Traffic Volume Growth	2	75	0	0	73	1	1	0	1	0	0	0	
Committed + 1.0% Growth	2	75	0	0	73	1	1	0	1	0	0	0	
Max (Committed + 1.0% or Historic Growth)	2	75	0	0	73	1	1	0	1	0	0	0	
Background Traffic Volumes	33	1,295	0	2	1,262	15	18	0	23	5	1	4	
Project Traffic													
Inbound Traffic Assignment		39.0%	11.0%	12.0%									Inbound
Inbound Traffic Volumes		11	3	3									28
Outbound Traffic Assignment					38.0%					12.0%		11.0%	Outbound
Outbound Traffic Volumes					48					15		14	125
Project Traffic	0	11	3	3	48	0	0	0	0	15	0	14	
Total Traffic w/o RTOR	33	1,306	3	5	1,310	15	18	0	23	20	1	18	
RTOR Reduction			(60)			(60)			(60)			(60)	
TOTAL TRAFFIC	33	1,306	0	5	1,310	0	18	0	0	20	1	0	

Traffic Survey Specialists, Inc.
85 SE 4th Avenue, Unit 109, Delray Beach, Florida 33483
Phone (561) 272-3255

22ND STREET & BROADWAY/US1
RIVIERA BEACH, FLORIDA
VIDEO COUNT
SIGNALIZED

File Name : 22nd & broadway
Site Code : 220022
Start Date : 1/26/2022
Page No : 1

Groups Printed- LIGHT VEHICLES - HEAVY VEHICLES

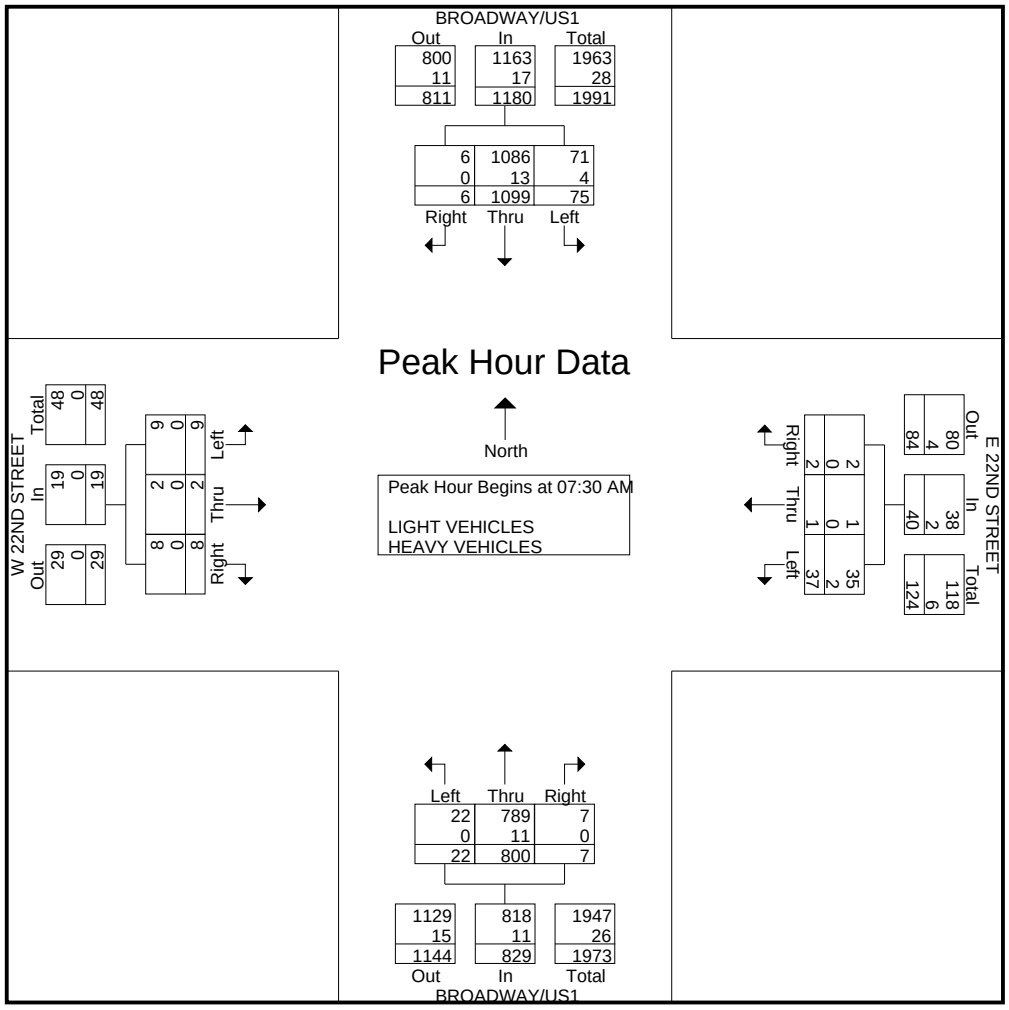
	BROADWAY/US1 From North				E 22ND STREET From East				BROADWAY/US1 From South				W 22ND STREET From West				
Start Time	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	Int. Total
07:00 AM	0	11	175	2	0	6	0	0	6	6	98	0	0	0	0	1	305
07:15 AM	1	9	246	2	0	4	0	2	1	5	132	4	0	1	0	3	410
07:30 AM	4	21	295	2	0	11	0	0	1	5	197	0	0	0	1	2	539
07:45 AM	4	12	259	2	0	13	0	0	0	3	191	2	0	0	0	3	489
Total	9	53	975	8	0	34	0	2	8	19	618	6	0	1	1	9	1743
08:00 AM	4	13	294	1	0	8	0	2	2	6	204	2	0	3	0	1	540
08:15 AM	1	16	251	1	0	5	1	0	0	5	208	3	0	6	1	2	500
08:30 AM	2	17	255	8	0	7	0	3	1	6	191	1	0	0	0	1	492
08:45 AM	3	12	186	3	0	21	1	2	0	5	181	1	0	2	0	1	418
Total	10	58	986	13	0	41	2	7	3	22	784	7	0	11	1	5	1950
04:00 PM	5	11	200	3	0	10	0	5	1	7	197	0	0	4	2	8	453
04:15 PM	2	2	218	3	0	11	2	4	3	10	272	2	0	0	0	3	532
04:30 PM	4	6	218	1	0	21	1	8	3	9	279	0	0	1	0	3	554
04:45 PM	6	6	236	0	0	14	2	2	3	10	267	4	0	4	2	3	559
Total	17	25	872	7	0	56	5	19	10	36	1015	6	0	9	4	17	2098
05:00 PM	1	3	257	5	0	11	4	10	0	5	270	0	0	0	0	3	569
05:15 PM	0	7	246	3	0	8	0	8	2	4	277	0	0	2	0	3	560
05:30 PM	0	3	235	4	0	12	1	12	2	5	273	5	1	2	0	2	557
05:45 PM	2	2	214	3	0	5	0	5	1	8	211	5	0	0	0	1	457
Total	3	15	952	15	0	36	5	35	5	22	1031	10	1	4	0	9	2143
Grand Total	39	151	3785	43	0	167	12	63	26	99	3448	29	1	25	6	40	7934
Apprch %	1	3.8	94.2	1.1	0	69	5	26	0.7	2.7	95.7	0.8	1.4	34.7	8.3	55.6	
Total %	0.5	1.9	47.7	0.5	0	2.1	0.2	0.8	0.3	1.2	43.5	0.4	0	0.3	0.1	0.5	
LIGHT VEHICLES	38	148	3734	42	0	163	11	63	26	94	3407	28	1	24	5	40	7824
% LIGHT VEHICLES	97.4	98	98.7	97.7	0	97.6	91.7	100	100	94.9	98.8	96.6	100	96	83.3	100	98.6
HEAVY VEHICLES	1	3	51	1	0	4	1	0	0	5	41	1	0	1	1	0	110
% HEAVY VEHICLES	2.6	2	1.3	2.3	0	2.4	8.3	0	0	5.1	1.2	3.4	0	4	16.7	0	1.4

Traffic Survey Specialists, Inc.
85 SE 4th Avenue, Unit 109, Delray Beach, Florida 33483
Phone (561) 272-3255

22ND STREET & BROADWAY/US1
RIVIERA BEACH, FLORIDA
VIDEO COUNT
SIGNALIZED

File Name : 22nd & broadway
Site Code : 220022
Start Date : 1/26/2022
Page No : 2

	BROADWAY/US1 From North					E 22ND STREET From East					BROADWAY/US1 From South					W 22ND STREET From West					
Start Time	UTurn	Left	Thru	Right	App. Total	UTurn	Left	Thru	Right	App. Total	UTurn	Left	Thru	Right	App. Total	UTurn	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:30 AM																					
07:30 AM	**4**	**21**	**295**	**2**	**322**	0	11	0	0	11	1	5	197	0	203	0	0	**1**	2	3	539
07:45 AM	4	12	259	2	277	0	**13**	0	0	**13**	0	3	191	2	196	0	0	0	**3**	3	489
08:00 AM	4	13	294	1	312	0	8	0	**2**	10	**2**	**6**	204	2	214	0	3	0	1	4	**540**
08:15 AM	1	16	251	1	269	0	5	**1**	0	6	0	5	**208**	**3**	**216**	0	**6**	1	2	**9**	500
Total Volume	13	62	1099	6	1180	0	37	1	2	40	3	19	800	7	829	0	9	2	8	19	2068
% App. Total	1.1	5.3	93.1	0.5		0	92.5	2.5	5		0.4	2.3	96.5	0.8		0	47.4	10.5	42.1		
PHF	.813	.738	.931	.750	.916	.000	.712	.250	.250	.769	.375	.792	.962	.583	.959	.000	.375	.500	.667	.528	.957
LIGHT VEHICLES			1086																		
% LIGHT VEHICLES	92.3	95.2	98.8	100	98.6	0	94.6	100	100	95.0	100	100	98.6	100	98.7	0	100	100	100	100	98.5
HEAVY VEHICLES																					
% HEAVY VEHICLES	7.7	4.8	1.2	0	1.4	0	5.4	0	0	5.0	0	0	1.4	0	1.3	0	0	0	0	0	1.5

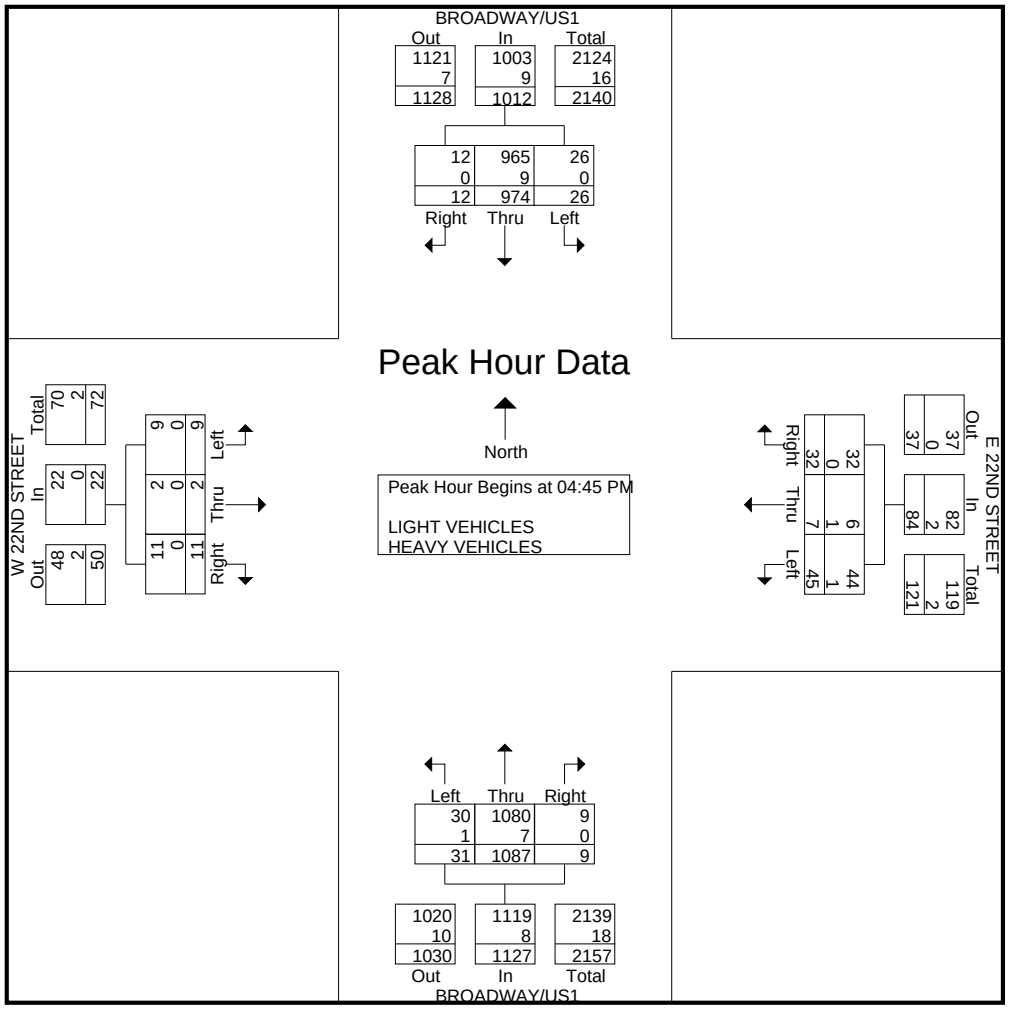


Traffic Survey Specialists, Inc.
85 SE 4th Avenue, Unit 109, Delray Beach, Florida 33483
Phone (561) 272-3255

22ND STREET & BROADWAY/US1
RIVIERA BEACH, FLORIDA
VIDEO COUNT
SIGNALIZED

File Name : 22nd & broadway
Site Code : 220022
Start Date : 1/26/2022
Page No : 3

	BROADWAY/US1 From North					E 22ND STREET From East					BROADWAY/US1 From South					W 22ND STREET From West					
Start Time	UTurn	Left	Thru	Right	App. Total	UTurn	Left	Thru	Right	App. Total	UTurn	Left	Thru	Right	App. Total	UTurn	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:45 PM																					
04:45 PM	**6**	6	236	0	248	0	**14**	2	2	18	**3**	**10**	267	4	284	0	**4**	**2**	**3**	**9**	559
05:00 PM	1	3	**257**	**5**	**266**	0	11	**4**	10	**25**	0	5	270	0	275	0	0	0	3	3	**569**
05:15 PM	0	**7**	246	3	256	0	8	0	8	16	2	4	**277**	0	283	0	2	0	3	5	560
05:30 PM	0	3	235	4	242	0	12	1	**12**	25	2	5	273	**5**	**285**	**1**	2	0	2	5	557
Total Volume	7	19	974	12	1012	0	45	7	32	84	7	24	1087	9	1127	1	8	2	11	22	2245
% App. Total	0.7	1.9	96.2	1.2		0	53.6	8.3	38.1		0.6	2.1	96.5	0.8		4.5	36.4	9.1	50		
PHF	.292	.679	.947	.600	.951	.000	.804	.438	.667	.840	.583	.600	.981	.450	.989	.250	.500	.250	.917	.611	.986
LIGHT VEHICLES													1080								
% LIGHT VEHICLES	100	100	99.1	100	99.1	0	97.8	85.7	100	97.6	100	95.8	99.4	100	99.3	100	100	100	100	100	99.2
HEAVY VEHICLES																					
% HEAVY VEHICLES	0	0	0.9	0	0.9	0	2.2	14.3	0	2.4	0	4.2	0.6	0	0.7	0	0	0	0	0	0.8



Traffic Survey Specialists, Inc.
85 SE 4th Avenue, Unit 109, Delray Beach, Florida 33483
Phone (561) 272-3255

22ND STREET & BROADWAY/US1
RIVIERA BEACH, FLORIDA
VIDEO COUNT
SIGNALIZED

File Name : 22nd & broadway
Site Code : 220022
Start Date : 1/26/2022
Page No : 1

Groups Printed- BICYCLES ON THE ROAD

	BROADWAY/US1 From North				E 22ND STREET From East				BROADWAY/US1 From South				W 22ND STREET From West				
Start Time	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Total	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
08:30 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Total	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
04:15 PM	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
04:45 PM	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	3
05:00 PM	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	3
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Total	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	4
Grand Total	0	0	2	2	0	0	1	0	0	0	2	0	0	0	0	2	9
Apprch %	0	0	50	50	0	0	100	0	0	0	100	0	0	0	0	100	
Total %	0	0	22.2	22.2	0	0	11.1	0	0	0	22.2	0	0	0	0	22.2	

Traffic Survey Specialists, Inc.
85 SE 4th Avenue, Unit 109, Delray Beach, Florida 33483
Phone (561) 272-3255

22ND STREET & BROADWAY/US1
RIVIERA BEACH, FLORIDA
VIDEO COUNT
SIGNALIZED

File Name : 22nd & broadway
Site Code : 220022
Start Date : 1/26/2022
Page No : 1

Groups Printed- PEDESTRIANS & BIKES

	BROADWAY/US1 From North				E 22ND STREET From East				BROADWAY/US1 From South				W 22ND STREET From West				
Start Time	Peds	Left	BIKES	Right	Peds	Left	BIKES	Right	Peds	Left	BIKES	Right	Peds	Left	BIKES	Right	Int. Total
07:00 AM	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
07:15 AM	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
07:30 AM	0	0	0	0	0	0	1	0	0	0	0	0	2	0	1	0	4
07:45 AM	0	0	0	0	4	0	1	0	0	0	1	0	0	0	0	0	6
Total	0	0	0	0	5	0	4	0	0	0	1	0	2	0	1	0	13
08:00 AM	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	3
08:15 AM	0	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	3
08:30 AM	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
08:45 AM	0	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	4
Total	0	0	0	0	3	0	5	0	0	0	0	0	2	0	1	0	11
04:00 PM	1	0	1	0	2	0	0	0	0	0	0	0	0	0	1	0	5
04:30 PM	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	4
04:45 PM	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	3
Total	1	0	1	0	2	0	5	0	0	0	0	0	1	0	2	0	12
05:00 PM	0	0	1	0	0	0	1	0	0	0	0	0	2	0	0	0	4
05:15 PM	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	3
05:30 PM	0	0	1	0	0	0	1	0	0	0	0	0	1	0	1	0	4
05:45 PM	0	0	1	0	0	0	1	0	0	0	0	0	3	0	2	0	7
Total	0	0	3	0	1	0	4	0	0	0	0	0	6	0	4	0	18
Grand Total	1	0	4	0	11	0	18	0	0	0	1	0	11	0	8	0	54
Apprch %	20	0	80	0	37.9	0	62.1	0	0	0	100	0	57.9	0	42.1	0	
Total %	1.9	0	7.4	0	20.4	0	33.3	0	0	0	1.9	0	20.4	0	14.8	0	

Traffic Survey Specialists, Inc.
85 SE 4th Avenue, Unit 109, Delray Beach, Florida 33483
Phone (561) 272-3255

20TH STREET & US1
RIVIERA BEACH, FLORIDA
VIDEO COUNT
SIGNALIZED

File Name : 20th & us1
Site Code : 210163
Start Date : 12/14/2021

Groups Printed- LIGHT VEHICLES - HEAVY VEHICLES

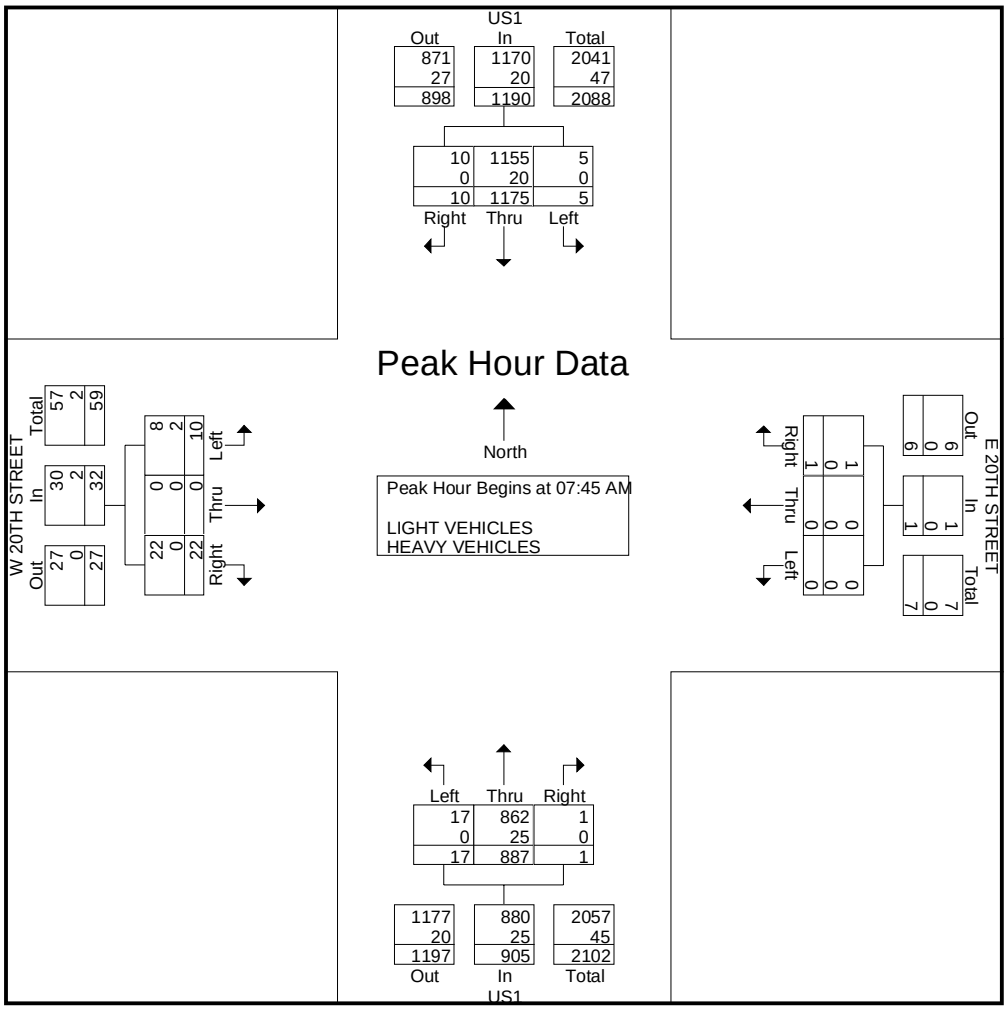
	US1 From North				E 20TH STREET From East				US1 From South				W 20TH STREET From West				
Start Time	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	Int. Total
07:00 AM	0	1	243	0	0	1	0	1	0	1	130	1	0	2	0	4	384
07:15 AM	1	1	251	0	0	0	3	1	0	2	184	0	0	1	0	3	447
07:30 AM	1	1	280	2	0	0	0	1	0	0	212	0	0	2	0	4	503
07:45 AM	0	0	282	1	0	0	0	0	0	1	278	1	0	2	0	5	570
Total	2	3	1056	3	0	1	3	3	0	4	804	2	0	7	0	16	1904
08:00 AM	1	0	302	2	0	0	0	0	0	3	213	0	0	0	0	3	524
08:15 AM	2	0	294	1	0	0	0	0	0	7	209	0	0	3	0	6	522
08:30 AM	0	2	297	6	0	0	0	1	0	6	187	0	0	5	0	8	512
08:45 AM	0	0	247	1	0	1	0	0	0	3	162	0	0	4	0	4	422
Total	3	2	1140	10	0	1	0	1	0	19	771	0	0	12	0	21	1980
04:00 PM	1	0	210	1	0	0	0	0	0	10	219	0	0	4	0	6	451
04:15 PM	1	0	255	1	0	0	0	1	0	12	277	1	0	3	0	5	556
04:30 PM	1	0	248	3	0	0	0	1	0	4	244	0	0	6	0	4	511
04:45 PM	2	0	235	3	0	1	0	1	0	3	305	0	0	5	0	6	561
Total	5	0	948	8	0	1	0	3	0	29	1045	1	0	18	0	21	2079
05:00 PM	0	0	278	4	0	0	0	0	0	6	264	0	0	4	0	8	564
05:15 PM	0	0	300	2	0	0	0	0	0	11	345	0	0	2	0	4	664
05:30 PM	0	0	309	4	0	4	1	3	0	9	237	0	0	5	0	3	575
05:45 PM	0	0	257	2	0	1	0	1	0	7	226	0	0	2	0	4	500
Total	0	0	1144	12	0	5	1	4	0	33	1072	0	0	13	0	19	2303
Grand Total	10	5	4288	33	0	8	4	11	0	85	3692	3	0	50	0	77	8266
Apprch %	0.2	0.1	98.9	0.8	0	34.8	17.4	47.8	0	2.2	97.7	0.1	0	39.4	0	60.6	
Total %	0.1	0.1	51.9	0.4	0	0.1	0	0.1	0	1	44.7	0	0	0.6	0	0.9	
LIGHT VEHICLES	10	5	4219	32	0	8	3	11	0	85	3632	3	0	48	0	77	8133
% LIGHT VEHICLES	100	100	98.4	97	0	100	75	100	0	100	98.4	100	0	96	0	100	98.4
HEAVY VEHICLES	0	0	69	1	0	0	1	0	0	0	60	0	0	2	0	0	133
% HEAVY VEHICLES	0	0	1.6	3	0	0	25	0	0	0	1.6	0	0	4	0	0	1.6

Traffic Survey Specialists, Inc.
85 SE 4th Avenue, Unit 109, Delray Beach, Florida 33483
Phone (561) 272-3255

20TH STREET & US1
RIVIERA BEACH, FLORIDA
VIDEO COUNT
SIGNALIZED

File Name : 20th & us1
Site Code : 210163
Start Date : 12/14/2021

	US1 From North					E 20TH STREET From East					US1 From South					W 20TH STREET From West					
Start Time	UTurn	Left	Thru	Right	App. Total	UTurn	Left	Thru	Right	App. Total	UTurn	Left	Thru	Right	App. Total	UTurn	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:45 AM																					
07:45 AM	0	0	282	1	283	0	0	0	0	0	0	1	**278**	**1**	**280**	0	2	0	5	7	**570**
08:00 AM	1	0	**302**	2	**305**	0	0	0	0	0	0	3	213	0	216	0	0	0	3	3	524
08:15 AM	**2**	0	294	1	297	0	0	0	0	0	0	**7**	209	0	216	0	3	0	6	9	522
08:30 AM	0	**2**	297	**6**	305	0	0	0	**1**	**1**	0	6	187	0	193	0	**5**	0	**8**	**13**	512
Total Volume	3	2	1175	10	1190	0	0	0	1	1	0	17	887	1	905	0	10	0	22	32	2128
% App. Total	0.3	0.2	98.7	0.8		0	0	0	100		0	1.9	98	0.1		0	31.2	0	68.8		
PHF	.375	.250	.973	.417	.975	.000	.000	.000	.250	.250	.000	.607	.798	.250	.808	.000	.500	.000	.688	.615	.933
LIGHT VEHICLES			1155																		
% LIGHT VEHICLES	100	100	98.3	100	98.3	0	0	0	100	100	0	100	97.2	100	97.2	0	80.0	0	100	93.8	97.8
HEAVY VEHICLES																					
% HEAVY VEHICLES	0	0	1.7	0	1.7	0	0	0	0	0	0	0	2.8	0	2.8	0	20.0	0	0	6.3	2.2

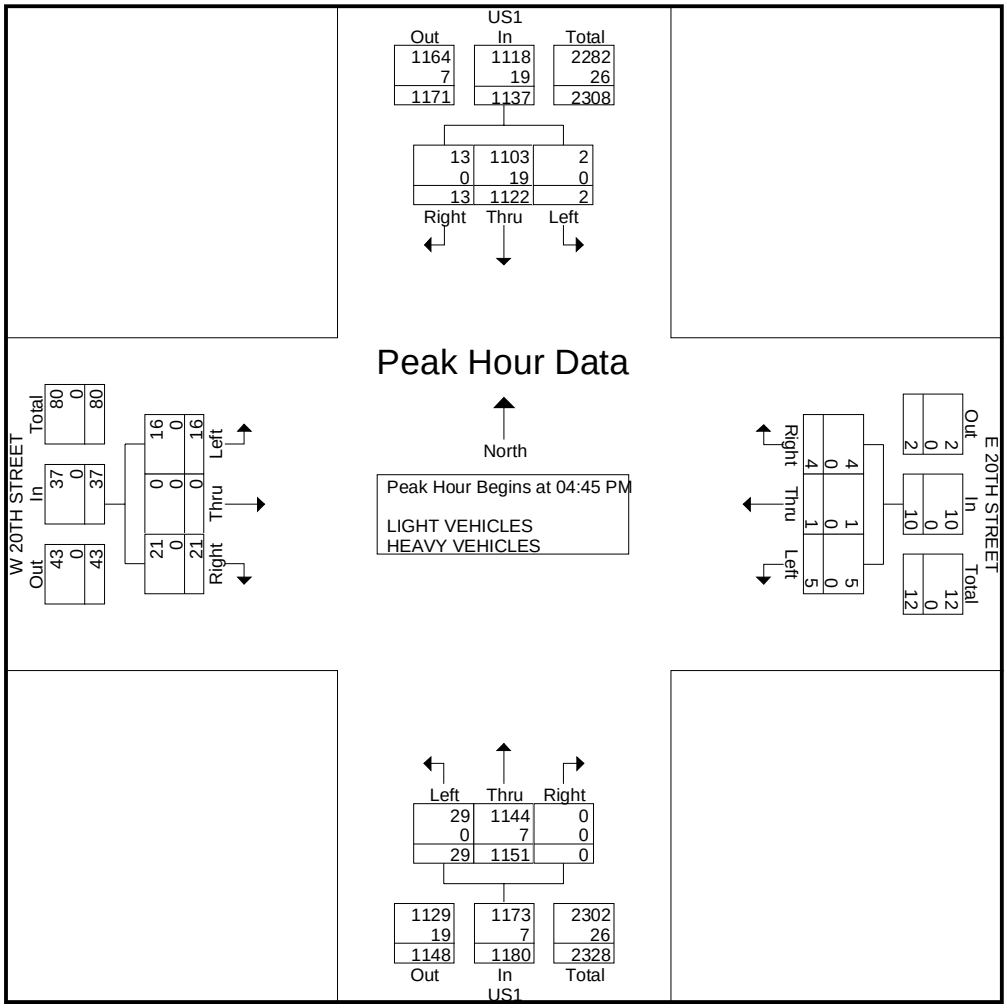


Traffic Survey Specialists, Inc.
85 SE 4th Avenue, Unit 109, Delray Beach, Florida 33483
Phone (561) 272-3255

20TH STREET & US1
RIVIERA BEACH, FLORIDA
VIDEO COUNT
SIGNALIZED

File Name : 20th & us1
Site Code : 210163
Start Date : 12/14/2021
Page No : 3

	US1 From North					E 20TH STREET From East					US1 From South					W 20TH STREET From West					
Start Time	UTurn	Left	Thru	Right	App. Total	UTurn	Left	Thru	Right	App. Total	UTurn	Left	Thru	Right	App. Total	UTurn	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:45 PM																					
04:45 PM	**2**	0	235	3	240	0	1	0	1	2	0	3	305	0	308	0	**5**	0	6	11	561
05:00 PM	0	0	278	**4**	282	0	0	0	0	0	0	6	264	0	270	0	4	0	**8**	**12**	564
05:15 PM	0	0	300	2	302	0	0	0	0	0	0	**11**	**345**	0	**356**	0	2	0	4	6	**664**
05:30 PM	0	0	**309**	4	**313**	0	**4**	**1**	**3**	**8**	0	9	237	0	246	0	5	0	3	8	575
Total Volume	2	0	1122	13	1137	0	5	1	4	10	0	29	1151	0	1180	0	16	0	21	37	2364
% App. Total	0.2	0	98.7	1.1		0	50	10	40		0	2.5	97.5	0		0	43.2	0	56.8		
PHF	.250	.000	.908	.813	.908	.000	.313	.250	.333	.313	.000	.659	.834	.000	.829	.000	.800	.000	.656	.771	.890
LIGHT VEHICLES			1103										1144								
% LIGHT VEHICLES	100	0	98.3	100	98.3	0	100	100	100	100	0	100	99.4	0	99.4	0	100	0	100	100	98.9
HEAVY VEHICLES																					
% HEAVY VEHICLES	0	0	1.7	0	1.7	0	0	0	0	0	0	0	0.6	0	0.6	0	0	0	0	0	1.1



Traffic Survey Specialists, Inc.
85 SE 4th Avenue, Unit 109, Delray Beach, Florida 33483
Phone (561) 272-3255

20TH STREET & US1
RIVIERA BEACH, FLORIDA
VIDEO COUNT
SIGNALIZED

File Name : 20th & us1
Site Code : 210163
Start Date : 12/14/2021

Groups Printed- BICYCLES ON THE ROAD

	US1 From North				E 20TH STREET From East				US1 From South				W 20TH STREET From West				
Start Time	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Total	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
08:15 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
08:30 AM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	2
05:00 PM	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Grand Total	0	0	3	0	0	0	0	0	0	0	2	0	0	0	0	0	5
Apprch %	0	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	
Total %	0	0	60	0	0	0	0	0	0	0	40	0	0	0	0	0	

Traffic Survey Specialists, Inc.
85 SE 4th Avenue, Unit 109, Delray Beach, Florida 33483
Phone (561) 272-3255

20TH STREET & US1
RIVIERA BEACH, FLORIDA
VIDEO COUNT
SIGNALIZED

File Name : 20th & us1
Site Code : 210163
Start Date : 12/14/2021

Groups Printed- PEDESTRIANS & BIKES

	US1 From North				E 20TH STREET From East				US1 From South				W 20TH STREET From West				
Start Time	Peds	Left	BIKES	Right	Peds	Left	BIKES	Right	Peds	Left	BIKES	Right	Peds	Left	BIKES	Right	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2
07:15 AM	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	2
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2
07:45 AM	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	2
Total	0	0	0	0	2	0	2	0	0	0	0	0	1	0	3	0	8
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
08:15 AM	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	2
08:30 AM	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	2
08:45 AM	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2
Total	1	0	0	0	1	0	3	0	0	0	0	0	1	0	1	0	7
04:00 PM	0	0	0	0	3	0	0	0	0	0	0	0	0	0	1	0	4
04:15 PM	1	0	0	0	2	0	5	0	2	0	0	0	0	0	1	0	11
04:30 PM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	2
04:45 PM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	4	0	5
Total	1	0	0	0	5	0	7	0	2	0	0	0	0	0	7	0	22
05:00 PM	0	0	0	0	0	0	3	0	0	0	0	0	0	0	2	0	5
05:15 PM	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	2
05:30 PM	0	0	0	0	1	0	2	0	0	0	0	0	0	0	1	0	4
05:45 PM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Total	0	0	0	0	2	0	6	0	0	0	0	0	0	0	4	0	12
Grand Total	2	0	0	0	10	0	18	0	2	0	0	0	2	0	15	0	49
Apprch %	100	0	0	0	35.7	0	64.3	0	100	0	0	0	11.8	0	88.2	0	
Total %	4.1	0	0	0	20.4	0	36.7	0	4.1	0	0	0	4.1	0	30.6	0	

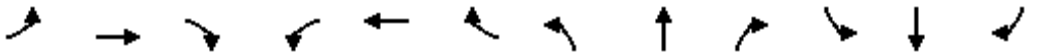
Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	11	2	49	1	24	911	137	1245
Future Volume (vph)	11	2	49	1	24	911	137	1245
Turn Type	Perm	NA	Perm	NA	pm+pt	NA	pm+pt	NA
Protected Phases		4		8	5	2	1	6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	5	2	1	6
Switch Phase								
Minimum Initial (s)	6.0	6.0	6.0	6.0	4.0	15.0	4.0	15.0
Minimum Split (s)	26.0	26.0	26.0	26.0	10.0	24.0	10.0	24.0
Total Split (s)	30.0	30.0	30.0	30.0	20.0	70.0	20.0	70.0
Total Split (%)	25.0%	25.0%	25.0%	25.0%	16.7%	58.3%	16.7%	58.3%
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Lost Time Adjust (s)		0.0		0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)		6.0		6.0	6.0	6.0	6.0	6.0
Lead/Lag					Lead	Lag	Lead	Lag
Lead-Lag Optimize?					Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	Min	None	Min
Act Effct Green (s)		8.9		9.1	40.4	33.9	46.9	47.7
Actuated g/C Ratio		0.14		0.14	0.64	0.54	0.74	0.75
v/c Ratio		0.11		0.31	0.07	0.54	0.32	0.49
Control Delay		25.8		31.9	4.4	12.0	5.5	8.6
Queue Delay		0.0		0.0	0.0	0.0	0.0	0.0
Total Delay		25.8		31.9	4.4	12.0	5.5	8.6
LOS		C		C	A	B	A	A
Approach Delay		25.8		31.9		11.8		8.3
Approach LOS		C		C		B		A

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 63.2	
Natural Cycle: 70	
Control Type: Semi Act-Uncoord	
Maximum v/c Ratio: 0.54	
Intersection Signal Delay: 10.4	Intersection LOS: B
Intersection Capacity Utilization 58.0%	ICU Level of Service B
Analysis Period (min) 15	

Splits and Phases: 1: Broadway & 22nd Street

Lane Group	EBT	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	22	62	25	1022	144	1317
v/c Ratio	0.11	0.31	0.07	0.54	0.32	0.49
Control Delay	25.8	31.9	4.4	12.0	5.5	8.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	25.8	31.9	4.4	12.0	5.5	8.6
Queue Length 50th (ft)	4	16	2	128	14	99
Queue Length 95th (ft)	25	59	9	207	33	281
Internal Link Dist (ft)	249	261		186		386
Turn Bay Length (ft)			200		190	
Base Capacity (vph)	587	565	605	3188	620	3213
Starvation Cap Reductn	0	0	0	75	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.04	0.11	0.04	0.33	0.23	0.41

Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	11	2	8	49	1	9	24	911	60	137	1245	6
Future Volume (veh/h)	11	2	8	49	1	9	24	911	60	137	1245	6
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	12	2	8	52	1	9	25	959	63	144	1311	6
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	160	34	49	230	4	18	301	1677	110	431	1970	9
Arrive On Green	0.08	0.08	0.08	0.08	0.08	0.08	0.02	0.50	0.50	0.07	0.54	0.54
Sat Flow, veh/h	627	412	594	1227	44	216	1781	3385	222	1781	3628	17
Grp Volume(v), veh/h	22	0	0	62	0	0	25	503	519	144	642	675
Grp Sat Flow(s),veh/h/ln	1633	0	0	1486	0	0	1781	1777	1830	1781	1777	1867
Q Serve(g_s), s	0.0	0.0	0.0	1.4	0.0	0.0	0.4	10.2	10.2	2.0	13.2	13.2
Cycle Q Clear(g_c), s	0.6	0.0	0.0	2.0	0.0	0.0	0.4	10.2	10.2	2.0	13.2	13.2
Prop In Lane	0.55		0.36	0.84		0.15	1.00		0.12	1.00		0.01
Lane Grp Cap(c), veh/h	242	0	0	251	0	0	301	880	907	431	965	1014
V/C Ratio(X)	0.09	0.00	0.00	0.25	0.00	0.00	0.08	0.57	0.57	0.33	0.67	0.67
Avail Cap(c_a), veh/h	823	0	0	806	0	0	747	2222	2289	791	2222	2335
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	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	21.9	0.0	0.0	22.4	0.0	0.0	7.2	9.1	9.1	6.6	8.4	8.4
Incr Delay (d2), s/veh	0.2	0.0	0.0	0.5	0.0	0.0	0.1	0.6	0.6	0.5	0.8	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	0.2	0.0	0.0	0.7	0.0	0.0	0.1	3.2	3.3	0.6	3.8	4.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	22.0	0.0	0.0	22.9	0.0	0.0	7.3	9.7	9.7	7.1	9.2	9.1
LnGrp LOS	C	A	A	C	A	A	A	A	A	A	A	A
Approach Vol, veh/h		22			62			1047			1461	
Approach Delay, s/veh		22.0			22.9			9.6			8.9	
Approach LOS		C			C			A			A	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	9.6	31.3		10.2	7.2	33.8		10.2				
Change Period (Y+Rc), s	6.0	6.0		6.0	6.0	6.0		6.0				
Max Green Setting (Gmax), s	14.0	64.0		24.0	14.0	64.0		24.0				
Max Q Clear Time (g_c+I1), s	4.0	12.2		2.6	2.4	15.2		4.0				
Green Ext Time (p_c), s	0.2	8.4		0.1	0.0	12.6		0.2				

Intersection Summary			
HCM 6th Ctrl Delay		9.7	
HCM 6th LOS		A	

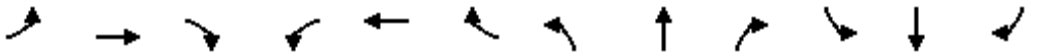
Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	12	0	3	0	19	1053	22	1331
Future Volume (vph)	12	0	3	0	19	1053	22	1331
Turn Type	Perm	NA	Perm	NA	Perm	NA	pm+pt	NA
Protected Phases		4		8		2	1	6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	1	6
Switch Phase								
Minimum Initial (s)	6.0	6.0	6.0	6.0	15.0	15.0	4.0	15.0
Minimum Split (s)	28.0	28.0	29.0	29.0	24.0	24.0	10.0	24.0
Total Split (s)	30.0	30.0	30.0	30.0	70.0	70.0	20.0	90.0
Total Split (%)	25.0%	25.0%	25.0%	25.0%	58.3%	58.3%	16.7%	75.0%
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6.0	6.0		6.0	6.0	6.0	6.0	6.0
Lead/Lag					Lag	Lag	Lead	
Lead-Lag Optimize?					Yes	Yes	Yes	
Recall Mode	None	None	None	None	Min	Min	None	Min
Act Effct Green (s)	6.8	6.8		6.8	40.7	40.7	41.3	44.6
Actuated g/C Ratio	0.13	0.13		0.13	0.75	0.75	0.76	0.82
v/c Ratio	0.06	0.09		0.02	0.08	0.42	0.05	0.48
Control Delay	27.2	0.7		0.2	8.2	7.2	3.1	4.0
Queue Delay	0.0	0.0		0.0	0.0	0.0	0.0	0.0
Total Delay	27.2	0.7		0.2	8.2	7.2	3.1	4.0
LOS	C	A		A	A	A	A	A
Approach Delay		9.7		0.2		7.2		4.0
Approach LOS		A		A		A		A

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 54.1	
Natural Cycle: 65	
Control Type: Semi Act-Uncoord	
Maximum v/c Ratio: 0.48	
Intersection Signal Delay: 5.5	Intersection LOS: A
Intersection Capacity Utilization 52.2%	ICU Level of Service A
Analysis Period (min) 15	

Splits and Phases: 3: 20th Street & Broadway

Lane Group	EBL	EBT	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	13	25	6	20	1125	23	1414
v/c Ratio	0.06	0.09	0.02	0.08	0.42	0.05	0.48
Control Delay	27.2	0.7	0.2	8.2	7.2	3.1	4.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	27.2	0.7	0.2	8.2	7.2	3.1	4.0
Queue Length 50th (ft)	4	0	0	2	64	2	91
Queue Length 95th (ft)	17	0	0	13	186	6	140
Internal Link Dist (ft)		325	300		386		189
Turn Bay Length (ft)						200	
Base Capacity (vph)	882	792	767	347	3478	657	3536
Starvation Cap Reductn	0	0	0	0	0	0	159
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.01	0.03	0.01	0.06	0.32	0.04	0.42

Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	12	0	24	3	0	3	19	1053	16	22	1331	12
Future Volume (veh/h)	12	0	24	3	0	3	19	1053	16	22	1331	12
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	13	0	25	3	0	3	20	1108	17	23	1401	13
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	252	0	90	155	4	35	339	1811	28	348	2404	22
Arrive On Green	0.06	0.00	0.06	0.06	0.00	0.06	0.51	0.51	0.51	0.02	0.67	0.67
Sat Flow, veh/h	1414	0	1585	543	76	619	380	3582	55	1781	3608	33
Grp Volume(v), veh/h	13	0	25	6	0	0	20	550	575	23	690	724
Grp Sat Flow(s),veh/h/ln	1414	0	1585	1238	0	0	380	1777	1860	1781	1777	1864
Q Serve(g_s), s	0.0	0.0	0.7	0.0	0.0	0.0	1.3	9.6	9.6	0.2	9.2	9.2
Cycle Q Clear(g_c), s	0.3	0.0	0.7	0.7	0.0	0.0	3.5	9.6	9.6	0.2	9.2	9.2
Prop In Lane	1.00		1.00	0.50		0.50	1.00		0.03	1.00		0.02
Lane Grp Cap(c), veh/h	252	0	90	195	0	0	339	898	941	348	1184	1242
V/C Ratio(X)	0.05	0.00	0.28	0.03	0.00	0.00	0.06	0.61	0.61	0.07	0.58	0.58
Avail Cap(c_a), veh/h	954	0	877	929	0	0	708	2623	2746	884	3443	3612
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	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	19.4	0.0	19.6	19.3	0.0	0.0	6.8	7.7	7.7	5.6	3.9	3.9
Incr Delay (d2), s/veh	0.1	0.0	1.6	0.1	0.0	0.0	0.1	0.7	0.6	0.1	0.5	0.4
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	0.1	0.0	0.3	0.1	0.0	0.0	0.1	2.6	2.7	0.1	1.4	1.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	19.5	0.0	21.2	19.4	0.0	0.0	6.9	8.4	8.3	5.7	4.4	4.4
LnGrp LOS	B	A	C	B	A	A	A	A	A	A	A	A
Approach Vol, veh/h		38			6			1145			1437	
Approach Delay, s/veh		20.6			19.4			8.3			4.4	
Approach LOS		C			B			A			A	

Timer - Assigned Phs	1	2		4		6		8				
Phs Duration (G+Y+Rc), s	7.0	27.9		8.5		34.9		8.5				
Change Period (Y+Rc), s	6.0	6.0		6.0		6.0		6.0				
Max Green Setting (Gmax), s	14.0	64.0		24.0		84.0		24.0				
Max Q Clear Time (g_c+I1), s	2.2	11.6		2.7		11.2		2.7				
Green Ext Time (p_c), s	0.0	10.3		0.1		15.2		0.0				

Intersection Summary			
HCM 6th Ctrl Delay		6.4	
HCM 6th LOS		A	

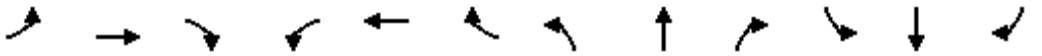
Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	11	2	98	7	35	1229	40	1089
Future Volume (vph)	11	2	98	7	35	1229	40	1089
Turn Type	Perm	NA	Perm	NA	pm+pt	NA	pm+pt	NA
Protected Phases		4		8	5	2	1	6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	5	2	1	6
Switch Phase								
Minimum Initial (s)	6.0	6.0	6.0	6.0	4.0	15.0	4.0	15.0
Minimum Split (s)	26.0	26.0	26.0	26.0	10.0	24.0	10.0	24.0
Total Split (s)	35.0	35.0	35.0	35.0	22.0	103.0	22.0	103.0
Total Split (%)	21.9%	21.9%	21.9%	21.9%	13.8%	64.4%	13.8%	64.4%
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Lost Time Adjust (s)		0.0		0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)		6.0		6.0	6.0	6.0	6.0	6.0
Lead/Lag					Lead	Lag	Lead	Lag
Lead-Lag Optimize?					Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	Min	None	Min
Act Effct Green (s)		17.2		17.2	47.8	44.4	47.7	44.4
Actuated g/C Ratio		0.21		0.21	0.59	0.55	0.59	0.55
v/c Ratio		0.09		0.61	0.12	0.68	0.16	0.60
Control Delay		22.2		38.7	7.0	16.8	7.5	15.3
Queue Delay		0.0		0.0	0.0	0.0	0.0	0.0
Total Delay		22.2		38.7	7.0	16.8	7.5	15.3
LOS		C		D	A	B	A	B
Approach Delay		22.2		38.7		16.5		15.0
Approach LOS		C		D		B		B

Intersection Summary	
Cycle Length: 160	
Actuated Cycle Length: 81.3	
Natural Cycle: 70	
Control Type: Semi Act-Uncoord	
Maximum v/c Ratio: 0.68	
Intersection Signal Delay: 17.5	Intersection LOS: B
Intersection Capacity Utilization 59.7%	ICU Level of Service B
Analysis Period (min) 15	

Splits and Phases: 1: Broadway & 22nd Street

Lane Group	EBT	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	28	194	37	1317	42	1161
v/c Ratio	0.09	0.61	0.12	0.68	0.16	0.60
Control Delay	22.2	38.7	7.0	16.8	7.5	15.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	22.2	38.7	7.0	16.8	7.5	15.3
Queue Length 50th (ft)	5	76	5	236	6	195
Queue Length 95th (ft)	29	167	18	382	20	318
Internal Link Dist (ft)	249	261		186		386
Turn Bay Length (ft)			200		190	
Base Capacity (vph)	603	583	514	3416	481	3419
Starvation Cap Reductn	0	0	0	190	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.05	0.33	0.07	0.41	0.09	0.34

Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	11	2	13	98	7	80	35	1229	22	40	1089	14
Future Volume (veh/h)	11	2	13	98	7	80	35	1229	22	40	1089	14
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	12	2	14	103	7	84	37	1294	23	42	1146	15
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	169	49	136	206	24	109	310	1843	33	273	1863	24
Arrive On Green	0.17	0.17	0.17	0.17	0.17	0.17	0.03	0.52	0.52	0.03	0.52	0.52
Sat Flow, veh/h	524	294	818	713	144	654	1781	3572	63	1781	3592	47
Grp Volume(v), veh/h	28	0	0	194	0	0	37	643	674	42	567	594
Grp Sat Flow(s),veh/h/ln	1636	0	0	1511	0	0	1781	1777	1859	1781	1777	1862
Q Serve(g_s), s	0.0	0.0	0.0	6.7	0.0	0.0	0.6	17.4	17.4	0.7	14.3	14.3
Cycle Q Clear(g_c), s	0.9	0.0	0.0	7.7	0.0	0.0	0.6	17.4	17.4	0.7	14.3	14.3
Prop In Lane	0.43		0.50	0.53		0.43	1.00		0.03	1.00		0.03
Lane Grp Cap(c), veh/h	353	0	0	338	0	0	310	917	959	273	922	966
V/C Ratio(X)	0.08	0.00	0.00	0.57	0.00	0.00	0.12	0.70	0.70	0.15	0.62	0.62
Avail Cap(c_a), veh/h	783	0	0	774	0	0	707	2728	2854	665	2728	2858
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	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	22.3	0.0	0.0	25.1	0.0	0.0	8.3	11.6	11.6	9.2	10.7	10.8
Incr Delay (d2), s/veh	0.1	0.0	0.0	1.5	0.0	0.0	0.2	1.0	1.0	0.3	0.7	0.6
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	0.3	0.0	0.0	2.8	0.0	0.0	0.2	5.9	6.2	0.2	4.8	5.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	22.4	0.0	0.0	26.6	0.0	0.0	8.5	12.6	12.6	9.5	11.4	11.4
LnGrp LOS	C	A	A	C	A	A	A	B	B	A	B	B
Approach Vol, veh/h		28			194			1354			1203	
Approach Delay, s/veh		22.4			26.6			12.5			11.3	
Approach LOS		C			C			B			B	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	8.1	38.6		16.5	7.9	38.8		16.5				
Change Period (Y+Rc), s	6.0	6.0		6.0	6.0	6.0		6.0				
Max Green Setting (Gmax), s	16.0	97.0		29.0	16.0	97.0		29.0				
Max Q Clear Time (g_c+I1), s	2.7	19.4		2.9	2.6	16.3		9.7				
Green Ext Time (p_c), s	0.0	13.2		0.1	0.0	10.5		1.0				

Intersection Summary	
HCM 6th Ctrl Delay	13.1
HCM 6th LOS	B

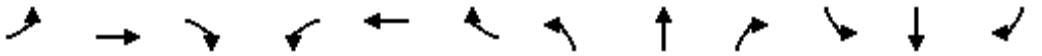
Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	18	0	20	1	33	1306	5	1310
Future Volume (vph)	18	0	20	1	33	1306	5	1310
Turn Type	Perm	NA	Perm	NA	Perm	NA	pm+pt	NA
Protected Phases		4		8		2	1	6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	1	6
Switch Phase								
Minimum Initial (s)	6.0	6.0	6.0	6.0	15.0	15.0	4.0	15.0
Minimum Split (s)	28.0	28.0	29.0	29.0	24.0	24.0	10.0	24.0
Total Split (s)	30.0	30.0	30.0	30.0	110.0	110.0	20.0	130.0
Total Split (%)	18.8%	18.8%	18.8%	18.8%	68.8%	68.8%	12.5%	81.3%
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6.0	6.0		6.0	6.0	6.0	6.0	6.0
Lead/Lag					Lag	Lag	Lead	
Lead-Lag Optimize?					Yes	Yes	Yes	
Recall Mode	None	None	None	None	Min	Min	None	Min
Act Effct Green (s)	7.3	7.3		7.3	43.4	43.4	41.7	44.9
Actuated g/C Ratio	0.13	0.13		0.13	0.78	0.78	0.75	0.81
v/c Ratio	0.08	0.08		0.20	0.12	0.50	0.01	0.49
Control Delay	28.3	0.5		21.6	6.7	6.2	3.2	4.4
Queue Delay	0.0	0.0		0.0	0.0	0.0	0.0	0.0
Total Delay	28.3	0.5		21.6	6.7	6.2	3.2	4.4
LOS	C	A		C	A	A	A	A
Approach Delay		12.8		21.6		6.2		4.4
Approach LOS		B		C		A		A

Intersection Summary	
Cycle Length: 160	
Actuated Cycle Length: 55.5	
Natural Cycle: 75	
Control Type: Semi Act-Uncoord	
Maximum v/c Ratio: 0.50	
Intersection Signal Delay: 5.6	Intersection LOS: A
Intersection Capacity Utilization 55.6%	ICU Level of Service B
Analysis Period (min) 15	

Splits and Phases: 3: 20th Street & Broadway

Lane Group	EBL	EBT	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	19	24	41	35	1378	5	1395
v/c Ratio	0.08	0.08	0.20	0.12	0.50	0.01	0.49
Control Delay	28.3	0.5	21.6	6.7	6.2	3.2	4.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	28.3	0.5	21.6	6.7	6.2	3.2	4.4
Queue Length 50th (ft)	5	0	6	3	90	1	92
Queue Length 95th (ft)	26	0	36	19	255	3	148
Internal Link Dist (ft)		325	300		386		189
Turn Bay Length (ft)						200	
Base Capacity (vph)	848	793	683	360	3539	598	3532
Starvation Cap Reductn	0	0	0	0	0	0	167
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.02	0.03	0.06	0.10	0.39	0.01	0.41

Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	18	0	23	20	1	18	33	1306	3	5	1310	15
Future Volume (veh/h)	18	0	23	20	1	18	33	1306	3	5	1310	15
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	19	0	24	21	1	19	35	1375	3	5	1379	16
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	252	0	126	149	17	56	331	2124	5	272	2518	29
Arrive On Green	0.08	0.00	0.08	0.08	0.08	0.08	0.58	0.58	0.58	0.01	0.70	0.70
Sat Flow, veh/h	1392	0	1585	611	210	709	387	3638	8	1781	3598	42
Grp Volume(v), veh/h	19	0	24	41	0	0	35	672	706	5	681	714
Grp Sat Flow(s),veh/h/ln	1392	0	1585	1530	0	0	387	1777	1869	1781	1777	1863
Q Serve(g_s), s	0.0	0.0	0.8	0.4	0.0	0.0	2.6	13.7	13.7	0.1	10.1	10.1
Cycle Q Clear(g_c), s	0.5	0.0	0.8	1.3	0.0	0.0	6.5	13.7	13.7	0.1	10.1	10.1
Prop In Lane	1.00		1.00	0.51		0.46	1.00		0.00	1.00		0.02
Lane Grp Cap(c), veh/h	252	0	126	222	0	0	331	1037	1091	272	1243	1303
V/C Ratio(X)	0.08	0.00	0.19	0.18	0.00	0.00	0.11	0.65	0.65	0.02	0.55	0.55
Avail Cap(c_a), veh/h	757	0	700	759	0	0	846	3402	3579	722	4057	4253
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	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	23.3	0.0	23.4	23.6	0.0	0.0	7.1	7.6	7.6	6.1	4.0	4.0
Incr Delay (d2), s/veh	0.1	0.0	0.7	0.4	0.0	0.0	0.1	0.7	0.7	0.0	0.4	0.4
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	0.2	0.0	0.3	0.5	0.0	0.0	0.2	3.9	4.1	0.0	2.0	2.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	23.4	0.0	24.1	24.0	0.0	0.0	7.2	8.2	8.2	6.1	4.3	4.3
LnGrp LOS	C	A	C	C	A	A	A	A	A	A	A	A
Approach Vol, veh/h		43			41			1413			1400	
Approach Delay, s/veh		23.8			24.0			8.2			4.3	
Approach LOS		C			C			A			A	

Timer - Assigned Phs	1	2		4		6		8				
Phs Duration (G+Y+Rc), s	6.3	37.7		10.3		44.0		10.3				
Change Period (Y+Rc), s	6.0	6.0		6.0		6.0		6.0				
Max Green Setting (Gmax), s	14.0	104.0		24.0		124.0		24.0				
Max Q Clear Time (g_c+I1), s	2.1	15.7		2.8		12.1		3.3				
Green Ext Time (p_c), s	0.0	16.0		0.1		15.0		0.1				

Intersection Summary												
HCM 6th Ctrl Delay			6.8									
HCM 6th LOS			A									

Florida HEALTH
Palm Beach County
Vision: To be the Healthiest State in the Nation

Air Pollution Source Inspection

[X] Complaint Investigation [ ] License Inspection [ ] Other Investigation or Inspection

EHD No. 50-99-386890-AP-037-23 FDEP/ AirCom ID: 0990718

Authority:
Chapter 77-616, Laws of Florida, as amended, ("The Environmental Control Act")
Chapter 11 of the Palm Beach County Code (Ordinance 78-5, as amended)

Facility: Rybovich Riviera Beach Phone: (561) 599-0764

Type: X Inspection Address: 2010 Avenue B - Riviera Beach FL

___ Re-inspection Contact: Charles Rivera

This inspection conducted by Bryan DeVelasco / Jaime Morales, on April 3rd 2023, resulted in a field determination of:

___ Unsatisfactory compliance demonstrated (see reasons below)

X Satisfactory compliance demonstrated

Concerns/Comments: Facility wide walktrough, observed surface coating, prep operations and bottom painting in full containment. did not observe objectionable odors, paint overspray, particulate emissions or fuel smells.

Receipt acknowledged by: Charles Rivera, Title: Safety Manager

Thank you for your cooperation in this inspection. We look forward to your continual efforts toward maintaining and improving the air quality in Palm Beach County. If you have any questions or comments, or if you have a compliance-assistance need, please call us at (561) 837-5974.

The following only applies to an unsatisfactory compliance demonstration:

Reason(s) for a determination of unsatisfactory:

Please address the above deficiencies no later then _____

Your timely response to the above deficiencies may preclude formal enforcement action.

revised 12-12-18

w/c Box 116 | RJ

CFN 20060006068
OR BK 19754 PG 0509
RECORDED 01/04/2006 15:19:27
Palm Beach County, Florida
AMT 29,455,300.00
Doc Stamp 206,187.10
Sharon R. Bock, CLERK & COMPTROLLER
Pgs 0509 - 517; (9pgs)

Prepared by and return to:
Lawrence W. Smith
Attorney at Law
Gary, Dytrych & Ryan, P.A.
701 U. S. Highway One Suite 402
North Palm Beach, FL 33408
561-844-3700
File Number: **2647.274 RBY**
Will Call No.: **116**

[Space Above This Line For Recording Data]

Special Warranty Deed

This Special Warranty Deed made this 3rd day of **January, 2006** between **Hudgins 2010 Corporation, a Florida corporation, as owner of Exhibit "A" Parcels A, B, C, D, E, F, G, O and Q; Acme 1930 Corp., a Florida corporation, as owner of Exhibit "A" Parcel H; Millennium Development, LLC, a Florida limited liability company, as owner of Exhibit "A" Parcel P** whose post office address is **2010 Avenue "B", Riviera Beach, FL 33404**, grantor, and **RBY, LLC, a Florida limited liability company** whose post office address is **450 E. Las Olas Blvd., Suite 1500, Fort Lauderdale, FL 33301**, grantee:

(Whenever used herein the terms grantor and grantee include all the parties to this instrument and the heirs, legal representatives, and assigns of individuals, and the successors and assigns of corporations, trusts and trustees)

Witnesseth, that said grantor, for and in consideration of the sum TEN AND NO/100 DOLLARS ($10.00) and other good and valuable considerations to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has granted, bargained, and sold to the said grantee, and grantee's heirs and assigns forever, the following described land, situate, lying and being in **Palm Beach County, Florida**, to-wit:

See Parcels A, B, C, D, E, F, G, H, O, P and Q on Exhibit "A" attached hereto and made a part hereof as if fully set forth herein.

Subject to taxes for 2006 and subsequent years; covenants, conditions, restrictions, easements, reservations and limitations of record, if any.

Together with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

To Have and to Hold, the same in fee simple forever.

And the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons claiming by, through or under grantors.

In Witness Whereof, grantor has hereunto set grantor's hand and seal the day and year first above written.

This is not a certified copy

DoubleTimee

Signed, sealed and delivered in our presence:

Witness Name: LAWRENCE W. SMITH

Witness Name: Robin Jarrell

Hudgins 2010 Corporation, a Florida corporation

By: _____
John Staluppi, President

(Corporate Seal)

Witness Name: LAWRENCE W. SMITH

Witness Name: Robin Jarrell

Acme 1930 Corp., a Florida corporation

By: _____
John Staluppi, President

(Corporate Seal)

Witness Name: LAWRENCE W. SMITH

Witness Name: Robin Jarrell

Millennium Development, LLC, a Florida limited liability company

By: _____
John Staluppi, Manager

State of Florida
County of Palm Beach

The foregoing instrument was acknowledged before me this 16 day of December, 2005 by John Staluppi, President of Hudgins 2010 Corporation, a Florida corporation, on behalf of the corporation. He [ ] is personally known to me or [X] has produced a driver's license as identification.

[Notary Seal]

ROBIN A. JARRELL
COMMISSION NUMBER
DD109365
MY COMMISSION EXPIRES

Notary Public

Printed Name: Robin A. Jarrell

My Commission Expires: 4/2/2006

This is not a certified copy

State of Florida
County of Palm Beach

The foregoing instrument was acknowledged before me this 16th day of December, 2005 by John Staluppi, President of Acme 1930 Corp., a Florida corporation, on behalf of the corporation. He [ ] is personally known to me or [X] has produced a driver's license as identification.

[Notary Seal]

Notary Public

Printed Name: Robin A. Jarrell

My Commission Expires: 4/2/2006

State of Florida
County of Palm Beach

The foregoing instrument was acknowledged before me this 16th day of December, 2005 by John Staluppi, Manager of Millennium Development, LLC, a Florida limited liability company, on behalf of said firm. He [ ] is personally known or [X] has produced a driver's license as identification.

[Notary Seal]

Notary Public

Printed Name: Robin A. Jarrell

My Commission Expires: 4/2/2006

This is not a certified copy

EXHIBIT "A"
LEGAL DESCRIPTION

PARCEL A: **HUDGINS 2010 CORPORATION, a Florida corporation**

PCN: 56-43-42-28-11-005-0110

Lot 11, Block 5, REVISED PLAT OF COCOANUT LODGE, according to the Plat recorded in Plat Book 7, Page 52, of the Public Records of Palm Beach County, Florida.

PARCEL B: **HUDGINS 2010 CORPORATION, a Florida corporation**

Parcel 1: **PCN: 56-43-42-28-33-000-0010**

Lot 1, RANDOLPH PARK, according to the Plat thereof, recorded in Plat Book 27, Page 7, in and for the Public Records of Palm Beach County, Florida.

Together With:

Parcel 2: **PCN: 56-43-42-28-11-006-0090**

Lots 9 thru 15, inclusive, of the unnumbered block lying West of Block 6 and South of Block 7, REVISED PLAT OF COCOANUT LODGE, according to the Plat thereof, recorded in Plat Book 7, Page 52, in and for the Public Records of Palm Beach County, Florida.

LESS AND EXCEPTING the lands conveyed to the State of Florida in those certain Deeds recorded in Official Record Book 810, Page 80 and in Official Record Book 810, Page 94, being more particularly described as follows:

The West 5 feet of Lot 15, of the unnumbered block lying West of Block 6 and South of Block 7, REVISED PLAT OF COCOANUT LODGE, according to the Plat thereof, recorded in Plat Book 7, Page 52, in and for the Public Records of Palm Beach County, Florida.

PARCEL C: **HUDGINS 2010 CORPORATION, a Florida corporation**

PCN: 56-43-42-28-11-006-0040

Lot 4, Block 6 of REVISED PLAT OF COCOANUT LODGE, according to the Plat thereof, recorded in Plat Book 7, Page 52, of the Public Records of Palm Beach County, Florida; said lands situate, lying and being in Palm Beach County, Florida.

Exhibit "A" Boundary Survey

PARCEL D: **HUDGINS 2010 CORPORATION, a Florida corporation**

PCN: 56-43-42-28-11-005-0050

Lot 5, Block 5, REVISED PLAT OF COCOANUT LODGE, according to the Plat thereof, recorded in Plat Book 7, Page 52, of the Public Records of Palm Beach County, Florida.

PARCEL E: **HUDGINS 2010 CORPORATION, a Florida corporation**

PCN: 56-43-42-28-11-006-0050 AND 56-43-42-28-11-006-0070

Lots 5, 6 and 7, Block 6, REVISED PLAT OF COCOANUT LODGE, Riviera Beach, Florida, according to the Plat thereof, on file in the office of the Clerk of the Circuit Court, in and for Palm Beach County, Florida in Plat Book 7, Page 52.

PARCEL F: **HUDGINS 2010 CORPORATION, a Florida corporation**

PCN: 56-43-42-28-11-005-0010

Lot 1, Block 5, REVISED PLAT OF COCOANUT LODGE, according to the Plat thereof, as recorded in Plat Book 7, Page 52, of the Public Records of Palm Beach County, Florida.

PARCEL G: **HUDGINS 2010 CORPORATION, a Florida corporation**

Parcel 1: **PCN: 56-43-42-28-11-002-0041**

Lot 4, LESS the North 24 feet of the West 150 feet of said Lot and all of Lot 5, Block 2, of the REVISED PLAT OF COCOANUT LODGE, according to the map or plat thereof as recorded in Plat Book 7, Page 52, Public Records of Palm Beach County, Florida.

TOGETHER WITH:

Parcel 2:

A parcel of submerged land in Lake Worth, in Section 28, Township 42 South, Range 43 East, Palm Beach County, Florida, more particularly described as follows:

Beginning at a point in the South line of Lot 5, Block 2, REVISED PLAT OF COCOANUT LODGE, according to the Plat thereof, as recorded in Plat Book 7, Page 52, at a distance of 332.95 feet, South 88°22'00" East of the Southwest corner of Said Lot 5, said point being in the high water line on the Westerly shore of Lake Worth thence continue Easterly along the same course, a distance of 64.34 feet, more or less, to a point

This is a Digital Copy

in the City of Riviera Beach Bulkhead Line, as established by Ordinance No. 691, and recorded in Plat Book 28, Pages 95 and 96, of the Public Records of Palm Beach County, Florida; thence North 24°12'00" East, along said City of Riviera Beach Bulkhead Line, a distance of 117.57 feet to a point in the Easterly projection of the North line of Lot 4, of said Cocoanut Lodge Revised Plat; thence North 88°22'00" West, along said Easterly projection of the North line of Lot 4, a distance of 138 feet, more or less, to a point in the aforesaid high water line on the Westerly shore of Lake Worth; thence South 17°20'15" East, along said high water line, a distance of 88.37 feet; thence South 1°38'00" West, along said high water line, a distance of 25 feet to the Point of Beginning.

TOGETHER WITH A LEASEHOLD INTEREST IN THE FOLLOWING DESCRIBED PROPERTY (SUBJECT TO TERMS OF SOVEREIGNTY SUBMERGED LANDS LEASE AND APPROVAL OF ASSIGNMENT BY THE STATE OF FLORIDA):

A parcel of submerged land lying in Section 28, Township 42, Range 43, Riviera Beach, Florida

More particularly described as follows:

Commencing at the Northwest corner of Lot 4, Block 2, Revised Plat of Cocoanut Lodge, Riviera Beach, Florida according to the Plat thereof recorded in Plat Book 7, Page 52, Public Records of Palm Beach County, Florida, thence Easterly, along the North line of said Lot 4, a distance of 402.31 feet to a point in the City of Riviera Beach Bulkhead line as recorded in Plat Book 28, Pages 95 and 96, Public Records of Palm Beach County, Florida, and the Point of Beginning; thence continuing Easterly along the Easterly extension of the North line of said Lot 4, a distance of 384.19 feet; thence Southerly at right angles a distance of 108.28 feet to a point in the Easterly extension of the South line of Lot 5 of said Block 2; thence Westerly along said Easterly extension a distance of 429.31 feet to a point in said Bulkhead Line; thence Northeasterly along said Bulkhead Line a distance of 117.57 feet to the Point of Beginning.

PARCEL H: **ACME 1930 CORP., a Florida corporation**

PCN: 56-43-42-28-11-002-0060
PCN: 56-43-42-28-11-006-0011
PCN: 56-43-42-28-11-006-0012
PCN: 56-43-42-28-11-006-0020
PCN: 56-43-42-28-11-006-0030

PARCEL 1: Lots 1, 2 and 3, Block 6, Revised Plat of COCOANUT LODGE according to the map or plat thereof as recorded in Plat Book 7, Page 52 of the Public Records of Palm Beach County, Florida.

PARCEL 2: That portion of Avenue B lying between the Easterly extension of the North and South lines of Lot 1, block 6, all as shown on the Revised Plat of COCOANUT

LODGE according to the map or plat thereof as recorded in Plat Book 7, Page 52 of the Public Records of Palm Beach County, Florida.

PARCEL 3: Lots 6 and 7, Block 2, as shown on the Revised Plat of COCOANUT LODGE according to the map or plat thereof as recorded in Plat Book 7, Page 52 of the Public Records of Palm Beach County, Florida, together with former sovereignty land lying in Lake Worth, now filled and being contiguous with the Easterly line of said Lots 6 and 7, Block 2 and lying North, West and South of Jurisdictional Line certified in Official Records Book 11995, Page 74, together with those parcels lying East of said Jurisdictional Line, as deeded by the State of Florida in Official Records Book 18541, Page 1921 and less that portion lying West of said Jurisdictional Line, deeded to the State of Florida in Official Records Book 18541, Page 1918, all Official Records Books recorded in the Public Records of Palm Beach County, Florida, being more particularly described as follows:

Beginning at the Northwest corner of Lot 6. Block 2, as shown on the Revised Plat of COCOANUT LODGE according to the map or plat thereof as recorded in Plat Book 7, Page 52 of the Public Records of Palm Beach County, Florida, thence on an assumed bearing of S 88°22'00" E along the North line and the Easterly extension of the North line of said Lot 6 a distance of 379.18 feet to a point on the Easterly face of a concrete bulkhead at the waterward boundary line as of July 1, 1975 and a point lying on the Jurisdictional Line certified in Official Records Book 11995, Page 74, Public Records of Palm Beach County, Florida ; said point also being the Northwest corner of parcel deeded to the State of Florida and shown as parcel 1 in Official Records Book 18541, Page 1918, Public Records of Palm Beach County, Florida ; thence S 01°50'06" W along said concrete bulkhead and said Jurisdictional Line a distance of 39.48 feet to a corner of said concrete bulkhead; thence N 88°22'00" W continuing along said concrete bulkhead a distance of 53.64 feet; thence departing said Jurisdictional Line S 02°17'23" W along the waterward face of a concrete bulkhead and along the East line of parcel deeded from the State of Florida and shown as parcel 2 in Official Records Book 18541, Page 1921, Public Records of Palm Beach County, Florida and along the West line of parcel deeded to the State of Florida and shown as parcel 2 in said Official Records Book 18541, Page 1918, a distance of 69.01 feet to a point of intersection with the Easterly extension of the South line of Lot 7, Block 2, said Revised Plat of COCOANUT LODGE; thence N 88°22'00" W along said Easterly extension and along the South line of said Lot 7, Block 2 a distance of 355.81 feet to the Southwest corner of said Lot 7, Block 2; thence N 17°40'39" E along the West line of said Lots 6 and 7, Block 2 a distance of 112.88 feet to the Point of Beginning.

TOGETHER WITH A LEASEHOLD INTEREST IN THE FOLLOWING DESCRIBED PROPERTY (SUBJECT TO TERMS OF SOVEREIGNTY SUBMERGED LANDS LEASE AND APPROVAL OF ASSIGNMENT BY THE STATE OF FLORIDA):

A parcel of Sovereignty Land lying in Lake Worth, abutting Section 28, Township 42 South, Range 43 East, Palm Beach County, Florida. Being more particularly described as follows:

Commencing at the Northwest corner of Lot 6, Block 2, Revised Plat of Cocoanut Lodge, Riviera Beach, Florida, according to the Plat thereof as recorded in Plat Book 7, Page 52, of the Public Records of Palm Beach County, Florida; thence on an assumed bearing of S 88°22'00" E, along the North line and the Easterly extension of the North line of said Lot 6, a distance of 397.51 feet to a point in the City of Riviera Beach Bulkhead Line as recorded in Plat Book 28, Page 95 and 96, Public Records of Palm Beach County, Florida, and being the POINT OF BEGINNING; thence S 24°12'00" W, along said bulkhead line, a distance of 42.75 feet; thence N 88°22'00" W, a distance of 71.00 feet; thence N 1°38'00" E, a distance of 9.20 feet; thence N 88°22'00" W, a distance of 20.00 feet; thence S 1°38'00" W, a distance of 34.00 feet; thence S 88□22'00" E, a distance of 40.40 feet; thence S 1°38'00" W, a distance of 44.20 feet to a point on the Easterly extension of the South line of Lot 7, Block 2 of said Plat of Cocoanut Lodge; thence S 88□22'00" E, along said Easterly extension of Lot 7, Block 2, a distance of 344.51 feet; thence N 1°38'00" E, a distance of 108.48 feet to a point on the Easterly extension of the North line of said Lot 6, Block 2; thence N 88°22'00" W, along said easterly extension, a distance of 277.50 feet to the POINT OF BEGINNING. LESS AND EXCEPT that portion of the foregoing property lying North, West and South of Jurisdictional Line certified in Official Records Book 11995, Page 74, of the Public Records of Palm Beach County, Florida, together with those parcels lying East of said Jurisdictional Line, as deeded by the State of Florida in Official Records Book 18541, Page 1921, of the Public Records of Palm Beach County, Florida.

PARCEL I: **INTENTIONALLY OMITTED**

PARCEL J: **INTENTIONALLY OMITTED**

PARCEL K: **INTENTIONALLY OMITTED**

PARCEL L: **INTENTIONALLY OMITTED**

PARCEL M: **INTENTIONALLY OMITTED**

PARCEL N: **INTENTIONALLY OMITTED**

PARCEL O: **HUDGINS 2010 CORPORATION, a Florida corporation**

PCN: 56-43-42-28-11-007-0040

Lot 4, Block 7, REVISED PLAT OF COCOANUT LODGE, a subdivision in the City of Riviera Beach, Florida, according to the Plat thereof, recorded in Plat Book 7, Page 52, of the Public Records of Palm Beach County, Florida.

PARCEL P: **MILLENNIUM DEVELOPMENT, LLC**

PCN: 56-43-42-28-65-000-0010

A parcel of land in Section 28, Township 42 South, Range 43 East, Palm Beach County, Florida, being a portion of the Plat of LIGHT HARBOR MARINA, recorded in Plat Book 68, Page 28, of the Public Records of Palm Beach County, Florida, more particularly described as follows:

BEGIN at the Northwest corner of said Plat, thence along the Northerly boundary of said Plat for the following courses:

thence N. 90 degrees 00' 00" E. for 365.00 feet; thence N. 00 degrees 07' 00" W. for 105.92 feet; thence N. 90 degrees 00' 00" E. for 805.14 feet to the Easterly boundary of said Plat; thence along said Easterly boundary for the following courses: thence S. 00 degrees 00' 00" E. for 13.75 feet; thence S. 89 degrees 40' 43" W. for 26.75 feet; thence S. 59 degrees 08' 16" W. for 4.75 feet; thence S. 01 degree 54' 11" E. for 88.78 feet; thence S. 89 degrees 26' 49" W. for 135.71 feet; thence S. 03 degrees 03' 14" W. for 48.85 feet; thence departing said boundary S. 90 degrees 00' 00" W. for 1003.64 feet to the West boundary of said Plat; thence along said West boundary, N. 00 degrees 07' 00" W. for 49.24 feet to the Point of Beginning.

PARCEL Q: **HUDGINS 2010 CORPORATION, a Florida corporation**

PCN: 56-43-42-28-11-007-0020

Lots 2 and 3, Block 7, REVISED PLAT OF COCOANUT LODGE according to the Plat recorded in Plat Book 7, Page 52, as recorded in the Public Records of Palm Beach County, Florida; said land situate, lying and being in Palm Beach County, Florida.

PARCEL R: **INTENTIONALLY OMITTED**

PARCEL S: **INTENTIONALLY OMITTED**

PARCEL T: **INTENTIONALLY OMITTED**

G:\DOCS\Lws\0000LWS2247-2713.3\2647.274 Riviera Properties\Legal Descriptions\RBY LLC Parcels A B C D E F G H O P Q.doc

Unofficial Document Copy

CFN 20180087221
OR BK 29696 PG 0902
RECORDED 03/07/2018 15:28:29
AMT 10.00
Doc Stamp 0.70
Palm Beach County, Florida
Sharon R. Bock,CLERK & COMPTROLLER
Pgs 0902 - 910; (9pgs)

PREPARED BY AND SHOULD BE
RETURNED TO:
H. William Perry, Esquire
Gunster, Yoakley & Stewart, P.A.
777 S. Flagler Drive, Suite 500E
West Palm Beach, FL 33401
Will Call No. 22
Parcel Control Nos.:
56-43-42-28-11-001-0010
56-43-42-28-11-003-0010
56-43-42-28-11-003-0020
56-43-42-28-11-003-0030
56-43-42-28-11-003-0040
56-43-42-28-11-004-0010
56-43-42-28-11-004-0020
56-43-42-28-11-004-0030
56-43-42-28-11-004-0041
56-43-42-28-11-005-0030

Property Appraiser's Office
Certified Copy

CORRECTIVE SPECIAL WARRANTY DEED

THIS CORRECTIVE SPECIAL WARRANTY DEED is made this 7th day of March, 2018, by **OLD PORT COVE HOLDINGS, INC.**, a Florida corporation, whose mailing address is 1216 US Highway No. 1, Suite E, North Palm Beach, Florida 33408 ("**Grantor**"), to **SHM NEW PORT COVE, LLC**, a Delaware limited liability company, whose mailing address is 14785 Preston Road, Suite 975, Dallas, Texas 75254 (the **Grantee**").

WITNESSETH:

GRANTOR, for and in consideration of the sum of TEN DOLLARS ($10.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, grants, bargains and sells to Grantee, its successors and assigns forever, all of that certain real property, situate in Palm Beach County, Florida as more particularly described on the attached Schedule A (the "**Property**").

TOGETHER WITH all improvements thereon and all of Grantor's right, title and interest, if any, in and to all hereditaments and appurtenances thereto (including all utility mains, service laterals, hydrants, valves and appurtenances); and all right, title and interest of Grantor, if any, in and to all oil, gas, minerals, soil, flowers, shrubs, crops, trees, timber, compacted soil, development rights, air rights, drainage rights, beach rights, riparian and littoral rights, filled, submerged and bulkheaded land, accretions, streets, roads, highways or avenues, easements, accesses, rights-of-way, contract rights, covenants, restrictions and agreements appurtenant to and/or benefiting the real property.

This Corrective Special Warranty Deed is being recorded to amend the legal description in the Special Warranty Deed recorded in Official Records Book 29681, Page 1899, of the Public Records of Palm Beach County, Florida.

TO HAVE AND TO HOLD the same in fee simple forever.

SUBJECT TO taxes for the year 2018 and all years subsequent thereto; restrictions, reservations, easements, encumbrances and covenants listed on Schedule B attached (with no intent to reimpose or preserve the specifically identified matters from the operation of the Marketable Record Title Act); parties in possession; zoning, land use and all other regulations imposed by governmental authority; and matters which would be disclosed by an accurate and comprehensive survey and inspection of the Property; and all other matters of record (unless created by Seller).

GRANTOR does hereby covenant with Grantee that, at the time of delivery of this Deed, and except as noted above, the Property was free from all encumbrances made by Grantor, and that Grantor will warrant and defend the title to the same against the lawful claims of all persons, claiming by, through or under Grantor, but against none other.

IN WITNESS WHEREOF, Grantor has executed these presents on the day and the year first above written.

[SIGNATURE PAGE FOLLOWS]

Image is a certified copy

WPB_ACTIVE 8400212.1

This is not a certified copy

Signed, sealed and delivered
in the presence of:

OLD PORT COVE HOLDINGS, INC., a Florida corporation

Sheree L. Norford
Print Name: Sheree L. Norford

By: _____
Name: Richard Morgan
Title: President

Donna Hale
Print Name: DONNA HALE

STATE OF FLORIDA)
) ss.
COUNTY OF PALM BEACH)

The foregoing instrument was acknowledged before me this 7th day of March, 2018, by Richard Morgan, the President of Old Port Cove Holdings, Inc., a Florida corporation, on behalf of the corporation. The above-named individual X is personally known to me or ☐ has produced _____ as identification.

_____
Print Name: Susan Chadderdon
Commission No._____
Commission Expires:_____

(NOTARIAL SEAL)

SUSAN E. CHADDERDON
MY COMMISSION # GG 031363
EXPIRES: January 18, 2021
Bonded Thru Notary Public Underwriters

Seller's Signature Page: Corrective Special Warranty Deed – New Port Cove

Schedule A

Legal Description

New Port Cove Marina

This is not a certified copy

The land referred to herein below is situated in the County of Palm Beach, State of Florida, and is described as follows:

FEE SIMPLE ESTATE:

PARCEL 1:

LOTS 1, 2 AND 3, BLOCK 1, REVISED PLAT OF COCOANUT LODGE, ACCORDING TO THE PLAT THEREOF, RECORDED IN PLAT BOOK 7, PAGE 52, OF THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA.

TOGETHER WITH A TRACT OF SUBMERGED LAND ADJACENT THERETO LYING BETWEEN THE HIGH WATER LINE AND CITY OF RIVIERA BEACH BULKHEAD AS RECORDED IN TIIF DEED NO. 24455 AND TIIF DEED NO. 24452 IN OFFICIAL RECORDS BOOK 1491, PAGE 144 AND 145, PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHWEST CORNER OF LOT 1, BLOCK 1, REVISED PLAT OF COCOANUT LODGE, ACCORDING TO THE PLAT THEREOF, RECORDED IN PLAT BOOK 7, PAGE 52, PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA; THENCE SOUTH 88°22'00" EAST, ALONG THE NORTH LINE OF SAID LOT 1 A DISTANCE OF 412 FEET TO A POINT IN THE HIGH WATER LINE ON THE WESTERLY SHORE OF LAKE WORTH, SAID POINT BEING THE NORTHWEST CORNER AND POINT OF BEGINNING OF THE HEREIN DESCRIBED TRACT OF SUBMERGED LAND; THENCE CONTINUE EASTERLY ALONG THE SAME COURSE A DISTANCE OF 58.19 FEET TO A POINT IN THE CITY OF RIVIERA BEACH BULKHEAD LINE AS ESTABLISHED BY ORDINANCE NO. 691 AND RECORDED IN PLAT BOOK 28, PAGE 96, PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA; THENCE SOUTH 21°18'37" WEST ALONG SAID CITY OF RIVIERA BEACH BULKHEAD LINE A DISTANCE OF 57.62 FEET TO A POINT IN THE EASTERLY EXTENSION OF THE SOUTH LINE OF SAID LOT 1; THENCE NORTH 88°22'00" WEST ALONG THE EASTERLY EXTENSION OF THE SOUTH LINE OF SAID LOT 1, A DISTANCE OF 44.48 FEET TO A POINT IN THE AFOREMENTIONED HIGH WATER LINE ON THE WESTERLY SHORE OF LAKE WORTH; THENCE NORTH 7°38'00" EAST ALONG THE SAID HIGH WATER LINE A DISTANCE OF 54.54 FEET TO THE POINT OF BEGINNING;

AND

COMMENCING AT THE NORTHWEST CORNER OF LOT 2, BLOCK 1, REVISED PLAT OF COCOANUT LODGE, ACCORDING TO THE PLAT THEREOF, RECORDED IN PLAT BOOK 7, PAGE 52, PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA; THENCE SOUTH 88°22'00" EAST ALONG THE NORTH LINE OF SAID LOT 2, A DISTANCE OF 421.88 FEET TO A POINT IN THE HIGH WATER LINE ON THE WESTERLY SHORE OF LAKE WORTH, SAID POINT BEING THE NORTHWEST CORNER AND POINT OF BEGINNING OF THE HEREIN DESCRIBED TRACT OF SUBMERGED LAND; THENCE CONTINUE EASTERLY ALONG THE SAME COURSE, A DISTANCE OF 44.48 FEET TO A POINT IN THE CITY OF RIVIERA BEACH BULKHEAD LINE AS ESTABLISHED BY ORDINANCE NO. 691 AND RECORDED IN PLAT BOOK 28, PAGE 96, PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA; THENCE SOUTH 21°18'37" WEST ALONG THE CITY OF RIVIERA BEACH BULKHEAD LINE, A DISTANCE OF 115.24 FEET TO A POINT IN THE EASTERLY EXTENSION OF THE SOUTH LINE OF LOT 3, BLOCK 1; THENCE NORTH 88°22'00" WEST ALONG THE EASTERLY EXTENSION OF THE SOUTH LINE OF SAID LOT 3, A DISTANCE OF 22.69 FEET TO A POINT IN THE AFOREMENTIONED HIGH WATER LINE ON THE WESTERLY SHORE OF LAKE WORTH; THENCE NORTH 12°37'38" EAST, ALONG SAID HIGH WATER LINE, A DISTANCE OF 64.50 FEET; THENCE CONTINUE NORTH 7°38'00" EAST ALONG SAID HIGH WATER LINE, A DISTANCE OF 45.46 FEET TO THE POINT OF BEGINNING.

PARCEL 2:

LOTS 4 AND 5, BLOCK 1, REVISED PLAT OF COCOANUT LODGE, ACCORDING TO THE PLAT THEREOF, RECORDED IN PLAT BOOK 7, PAGE 52, PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA.

TOGETHER WITH A TRACT OF SUBMERGED LAND LYING BETWEEN THE SHORELINE AND CITY OF RIVIERA BEACH BULKHEAD LINE AS RECORDED IN TIIF DEED NO. 24364 IN OFFICIAL RECORDS BOOK 1523, PAGE 369, PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE CITY OF RIVIERA BEACH BULKHEAD LINE AS SAME APPEARS IN PLAT BOOK 28, PAGE 96, PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA, WITH THE EASTERLY EXTENSION OF THE SOUTHERLY LINE OF LOT 5, BLOCK 1, OF THE REVISED PLAT OF COCOANUT LODGE AS SAME APPEARS IN PLAT BOOK 7, PAGE 52, PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA; THENCE WESTERLY ALONG SAID EXTENSION OF THE SOUTHERLY LINE OF SAID LOT 5, NORTH 88°22'00", WEST, A DISTANCE OF 4.03 FEET, MORE OR LESS, TO THE INTERSECTION WITH THE WESTERLY SHORE LINE OF LAKE WORTH; THENCE

DEPARTING FROM SAID SOUTHERLY LINE OF LOT 5, AND RUNNING ALONG THE WESTERLY SHORE LINE OF LAKE WORTH, NORTH 01 47'10" WEST, A DISTANCE OF 14.44 FEET; THENCE NORTH 12°12'30" EAST, A DISTANCE OF 40.53 FEET TO THE INTERSECTION OF SAID WESTERLY SHORE LINE AND THE EASTERLY EXTENSION OF THE NORTHERLY LINE OF AFORESAID LOT 5; THENCE SOUTH 88°22'00" EAST, ALONG SAID EASTERLY EXTENSION, A DISTANCE OF 16.85 FEET, MORE OR LESS, TO THE INTERSECTION WITH THE AFORESAID BULKHEAD LINE; THENCE SOUTH 21°18'37" WEST, ALONG THE SAID BULKHEAD LINE, A DISTANCE OF 57.62 FEET TO THE POINT OF BEGINNING.

PARCEL 3:

LOTS 1, 2, 3 AND 4, LESS THE WEST 50 FEET OF LOT 4, BLOCK 4, REVISED PLAT OF COCOANUT LODGE, ACCORDING TO THE PLAT THEREOF, RECORDED IN PLAT BOOK 7, PAGE 52, OF THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA.

PARCEL 4:

LOT 4, BLOCK 3, REVISED PLAT OF COCOANUT LODGE, ACCORDING TO THE PLAT THEREOF, RECORDED IN PLAT BOOK 7, PAGE 52, OF THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA,

PARCEL 5:

LOT 3, BLOCK 5, REVISED PLAT OF COCOANUT LODGE, ACCORDING TO THE PLAT THEREOF, RECORDED IN PLAT BOOK 7, PAGE 52, OF THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA.

PARCEL 6:

LOTS 1, 2 AND 3, BLOCK 3, REVISED PLAT OF COCOANUT LODGE, ACCORDING TO THE PLAT THEREOF, RECORDED IN PLAT BOOK 7, PAGE 52, OF THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA.

Document is NOT certified.

Schedule B

Permitted Exceptions

New Port Cove Marina

This is a certified copy

1. Taxes and assessments for the year 2018 and subsequent years, which are not yet due and payable.
2. Matters appearing on the Plat of REVISED PLAT OF COCOANUT LODGE, recorded in Plat Book 7, Page 52, as affected by that certain Ordinance No. 2816 of the City of Riviera Beach vacating a portion of the street as shown on said Plat, recorded in Official Records Book 19754, Page 481.
3. Riparian and/or littoral rights are not insured.
4. Rights of the public to use the waters over the submerged lands lying adjacent to or within the Lake Worth Waterway for boating, fishing, swimming and other public purposes (as to the Leasehold Estate).
5. This commitment and the policy to be issued do not insure, and should not be construed to insure, the right of the insured to fill any portion of the submerged lands described under Schedule A hereof without first having complied with all applicable state and federal requirements.
6. This Policy does not insure title to any part of the land lying below the mean high water line of Lake Worth.
7. Due to all or a part of the land described herein being artificially filled in land in what was formerly navigable waters, this policy is subject to the right of the United States Government, arising by reason of the United States Government's control over navigable waters in the interest of navigation and commerce and/or the inalienable right of the State of Florida in the lands and/or waters of such character.
8. Bulkhead line as recorded in Plat Book 28, Page 95, and Certificate of Approval for Establishment of Bulkhead Line recorded in Official Records Book 1284, Page 285.

   Note: Chapter 253.1221, F.S., re-established existing bulkhead lines at the line of mean high water or ordinary high water, and provides that there shall be no filling waterward of the line of mean high water or ordinary high water except upon compliance with Chapter 253, Florida Statutes.
9. Intentionally deleted.

10. Terms and conditions of those certain Sidewalk Agreements recorded in Official Records Book 1716, Page 1685 (as to Lots 1 through 3, Block 1) and Official Records Book 1876, Page 568 (as to Lot 1, Block 4).

11. Rights of tenants, as tenants only, pursuant to those certain unrecorded leases, which leases contain no options to purchase or rights of first refusal.

12. Reservations set forth in that certain Deed from the Trustees of the Internal Improvement Fund of the State of Florida dated January 20, 1941, filed April 22, 1941, in Deed Book 627, Page 482 (as to Lot 3, Block 5).

13. Reservations set forth in that certain Deed from the Trustees of the Internal Improvement Fund of the State of Florida dated October 4, 1966, filed May 9, 1967, in Official Records Book 1523, Page 369 (as to Lots 4 and 5, Block 1). Note: The right of entry has been released by Chapter 86-205, Laws of the State of Florida, which amended Section 270.11, F.S.

14. Reservations set forth in that certain Deed from the Trustees of the Internal Improvement Fund of the State of Florida dated January 4, 1967, filed February 27, 1967, in Official Records Book 1491, Page 144 and Page 145 (as to Lots 1 through 3, Block 1). Note: The right of entry has been released by Chapter 86-205, Laws of the State of Florida, which amended Section 270.11, F.S.

15. Easement granted to Florida Power & Light Company by instrument recorded in Official Records Book 15967, Page 1360 (as to Lots 1 through 5, Block 1).

16. Survey prepared by Masteller, Moler & Taylor, Inc., under file number 7149, drawing name 7149-NPC-M.dwg, dated 12/08/16, last revised 2/28/18, shows the following on sheet 3 of 4:

    a. Sign encroaching into Parcel 6 along the South property line.

    b. 2 signs located within the E. 22nd Street right-of-way along the North line of parcel 3.

    c. 8 foot chain link fence extending beyond subject property line into adjacent land to the south of Parcel 5.

    d. Signs, concrete drive and walkway, parking area, and planters extending beyond the Northerly property line of parcel 1 and into E. 22nd Court 40 foot right-of-way.

This is not a certified copy

e. Curbs and parking spaces encroaching into the FPL easement recorded in Book 15967, page 1360 along the Westerly line of Parcels 1 and 2.

Note: All of the recording information contained herein refers to the Public Records of Palm Beach County, Florida, unless otherwise indicated. Any reference herein to a Book and Page or Instrument Number is a reference to the Official Record Books of said county, unless indicated to the contrary.

This is not a certified copy

CFN 20130515803
OR BK 26481 PG 1364
RECORDED 12/03/2013 14:11:50
Palm Beach County, Florida
ANT 550,000.00
Doc Stamp 3,850.00
Sharon R. Bock, CLERK & COMPTROLLER
Pgs 1364 - 1366; (3pgs)

Prepared By and Return To:

Daniel J. Shepherd, Esquire
Daniel J. Shepherd, P.A.
3896 Burns Road
Suite 101
Palm Beach Gardens, Florida 33410

Property Control Numbers:
56-43-42-28-11-008-0081
56-43-42-28-11-008-0040

Consideration: $550,000.00

Document is NOT a certified copy

{SPACE ABOVE THIS LINE FOR RECORDING PURPOSES}

QUIT-CLAIM DEED

This Quit-Claim Deed, made effective the 18 day of **October, 2013**, by **Boathouse Real Property, Inc., a Florida corporation,** whose post office address is **2124 Broadway, Riviera Beach, Florida 33404,** party of the first part, to **Riviera Broadway Properties, LLC, a Florida limited liability company,** party of the second part, whose post office address is **1039 Aspri Way, Palm Beach Gardens, Florida 33418.**

Witnesseth, That said first party, for and in consideration of the sum of Ten and 00/100 ($10.00) Dollars, in hand paid by said second party, the receipt whereof is hereby acknowledged, do hereby remise, release and quit-claim unto the said second party forever, all the right, title, interest, claim and demand which the said first party has in and to the following described lot, piece or parcel of land, situate, lying and being in the County of **Palm Beach**, State of Florida, to wit:

Parcel 1:

The North 75 feet of Lots 8 and 9, Block 8, Revised Plat of Cocoanut Lodge, according to the Plat thereof, as recorded in Plat Book 7, Page 52, less the West 5 feet of Lot 8, Palm Beach County, Florida, Public Records.

Parcel 2:

Lot 4, Block 8, Revised Plat of Cocoanut Lodge, according to the plat thereof, as recorded in Plat Book 7, Page 52, of the Public Records of Palm Beach County, Florida.

Subject to restrictions, reservations, easements, and limitations of record, if any, provided that this deed shall not serve to reimpose same, zoning ordinances and taxes for the current and subsequent years.

To Have and to Hold the same together with all and singular the appurtenances thereunto belonging or in anywise appertaining, and all the estate, right, title, interest, lien, equity and claim whatsoever of the said first party, either in law or in equity, to the only proper use, benefit and behoof of the said second party forever.

In Witness Whereof, the said first party has caused these presents to be executed effective the 18 day of **October, 2013.**

IN WITNESS WHEREOF, the party of the first part has signed and sealed these presents the day and year first above written.

Signed, sealed and delivered in our presence:

(1st Witness - Signature)

Daniel J. Shepherd

(1st Witness - Printed Name)

V. Christini Sanchez

(2nd Witness - Signature)

V. Christine Sanchez

(2nd Witness - Printed Name)

Boathouse Real Property, Inc., a Florida corporation

By

Zouheir A. Yassine, President

By

Anthony Cerrito, Secretary/Treasurer

Document is not certified copy

State of Florida
County of Palm Beach

I hereby certify that on this day before me, an officer duly authorized in the State aforesaid and in the County aforesaid to take acknowledgements, personally appeared **Zouheir A. Yassine, as President of Boathouse Real Property, Inc., a Florida corporation**, and **Anthony Cerrito as Secretary/Treasurer of Boathouse Real Property, Inc., a Florida corporation**, to me well known and that they severally acknowledged executing the same in the presence of two subscribing witnesses freely and voluntarily and that they did not take an oath and

____ are personally known to me; or

X have produced Florida drivers' license as identification to me.

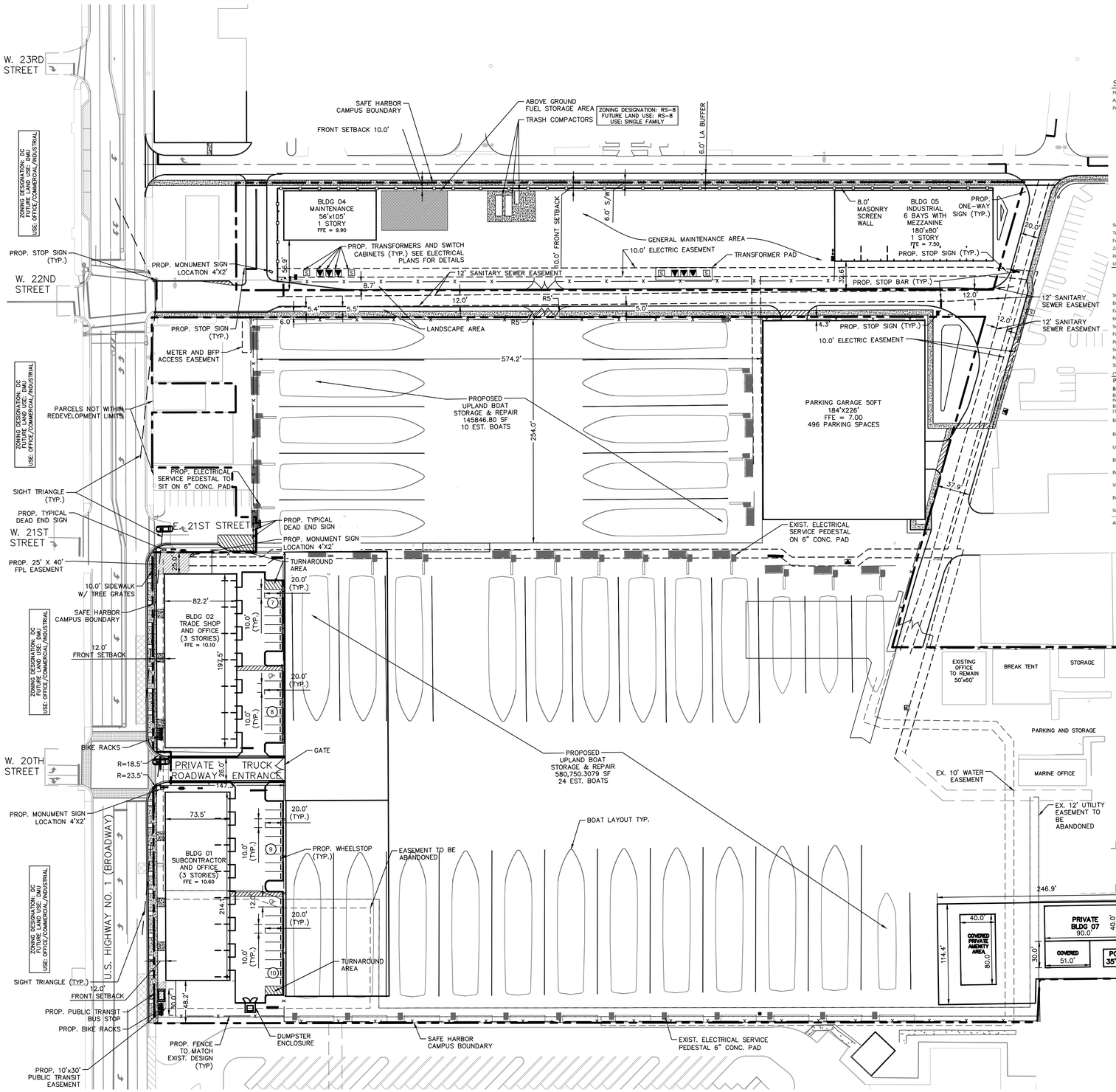
WITNESS my hand and official seal in the County and State last aforesaid this 18 day of **October, 2013**.

My Commission Expires: Notary Public

DANIEL J. SHEPHERD
MY COMMISSION # EE 868459
EXPIRES: March 13, 2017
Bonded Thru Notary Public Underwriters

Internet Copy Certified Copy

{This Quit-Claim Deed was prepared at the request of the first party and the second party without the benefit of title search or opinion of title.}



NOTE: ALL LANDSCAPE ELEMENTS INSTALLED WITHIN THE PUBLIC RIGHT OF WAY SHALL BE THE MAINTENANCE OBLIGATION OF THE PROJECT.

SITE DATA

Project Name		Safe Harbor Marina	
Application Numbers		AB-22-0002 / SP-22-0014 / ZA-22-002	
Property Control Numbers		56-43-42-28-33-000-0010	56-43-42-28-11-004-0020
		56-43-42-28-11-002-0041	56-43-42-28-11-004-0030
		56-43-42-28-11-007-0010	56-43-42-28-11-004-0041
		56-43-42-28-11-005-0010	56-43-42-28-11-003-0010
		56-43-42-28-11-005-0030	56-43-42-28-11-003-0020
		56-43-42-28-11-004-0010	56-43-42-28-11-003-0030
		56-43-42-28-11-008-0040	56-43-42-28-11-003-0040
		56-43-42-28-11-004-0042	56-43-42-28-11-003-0050
		56-43-42-28-11-008-0030	56-43-42-28-11-003-0070
		56-43-42-28-11-008-0130	56-43-42-28-11-003-0090
		56-43-42-28-11-008-0010	56-43-42-28-11-003-0101
		56-43-42-28-11-004-0120	56-43-42-28-11-003-0130
		56-43-42-28-11-004-0130	56-43-42-28-11-003-0140
		56-43-42-28-11-004-0110	56-43-42-28-11-003-0150
		56-43-42-28-11-004-0150	56-43-42-28-11-003-0161
Section, Township, Range		28-42-43	
Traffic Analysis Zone		146	
Future Land Use Designation		Downtown Mixed Use and Working Waterfront	
Zoning Designation		Downtown Core, Downtown Marine and Downtown Residential	
Proposed Zoning Designation		Downtown Core and Downtown Marine	
Use		Marine Related Businesses, Wet and Dry Boat Storage	
		908,226 SF	20.85 AC
	Pervious	183,387 SF	4.21 AC
	Impervious	734,857 SF	16.87 AC
Submerged Land		7,841 SF	0.18 AC
Building Coverage		126,760 SF	2.91 AC
FAR		0.17	
Height		50'	

Setbacks:	Required	Provided
Front Broadway Street	12 FT to 15 FT	12 FT
Primary Streets	10 FT to 15 FT	10 FT
Secondary Streeets	10 FT	10 FT
Rear	10 FT	0*
Side Interior	0 FT	0
(*Considered Interior to the Site)		

Parking

Buildings	Square Footage or Unit Count	Parking Ratio	Required Parking
Building 01 (Industrial/Office) (1st Floor Industrial / 2nd & 3rd Floor Office)	15,660 SF Industrial 31,320 SF Office	1 Space / 500 SF of Industrial & 1 Space / 300 SF of Office	Industrial: 31 Office: 105
Building 02 (Industrial/Office) (1st Floor Industrial / 2nd & 3rd Floor Office)	16,385 SF Industrial 32,770 SF Office	1 Space / 500 SF of Industrial & 1 Space / 300 SF of Office	Industrial: 33 Office: 110
Building 04 (Maintenance Bldg.)	5,575 SF Industrial	1 Space / 500 SF of Industrial	Industrial: 11
Building 05 (Maintenance Bldg.)	14,400 SF Industrial	1 Space / 500 SF of Industrial	Industrial: 29
Upland Work Area	38 Boats	1 Space / 4 Dry Storage Boats	Upland Work Area: 10
Building 06 (Parking Garage)	(No Parking)	(No Parking)	(No Parking)
Building 07 (Private Ammenity Area)	(No Parking)	(No Parking)	(No Parking)
Viking Shared Parking	29,778 SF Industrial	1 Space / 500 SF of Industrial	~60 Spaces
Boathouse Marine	Existing Spaces	-	6
South Facility Contractors	Office / Trade / Subs	-	130 Spaces
ADA	501 to 600 Parking Spaces	-	10 Spaces
		Total Required Parking	**525**
		Total Provided Parking	**530**
		Total ADA Parking Provided	**12**

FEMA FLOOD MAP: 12099C0393F
FLOOD ZONE X
100 YEAR FLOOD ELEVATION 6.00 NAVD 1988

NORTH

GRAPHIC SCALE IN FEET
0 30 60 120

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201,
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
MICHAEL D. SPRUCE, P.E.
FL LICENSE NUMBER
52776
DATE:

KHA PROJECT 145994004
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

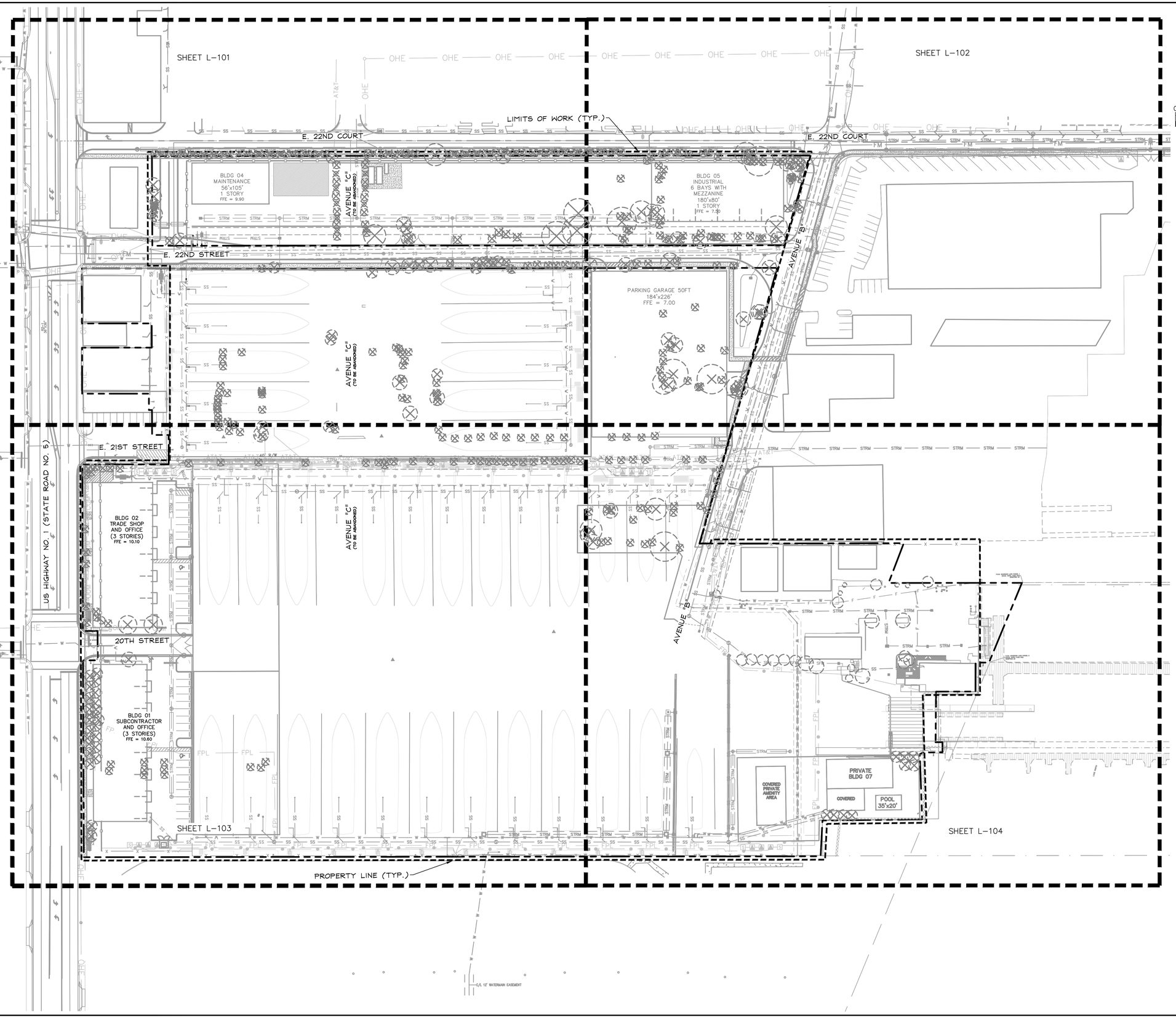
SITE PLAN

SAFE HARBOR RIVIERA BEACH

PREPARED FOR
SAFE HARBOR MARINAS FL
RIVIERA BEACH

SHEET NUMBER
P-100

Plotted By:Erin, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:P-100 SITE PLAN May 08, 2023 04:19:04pm K:\cod_civil\145994004 — safe harbor riviera beach\CADD\plansheets\C-400 SITE PLAN.dwg
Use of and improper reliance on this document without written authorization and adoption by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adoption by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



Plotted By: Alexa, Kristen Sheet Set: SAFE HARBOR RIVIERA BEACH Layout: OVERALL TREE DISPOSITION PLAN May 08, 2023 05:09:04pm K:\BRD_Civil\145994004 - Safe Harbor Riviera Beach\CADD\PlanSheets\L-100 TREE DISPOSITION PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

Kristen E. Alexa, PLA
Kimley-Horn
LA #6667555
2023.05.08 17:58:29-04'00'

KHA PROJECT	145994004
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	JPL
DRAWN BY	AMS
CHECKED BY	MDS

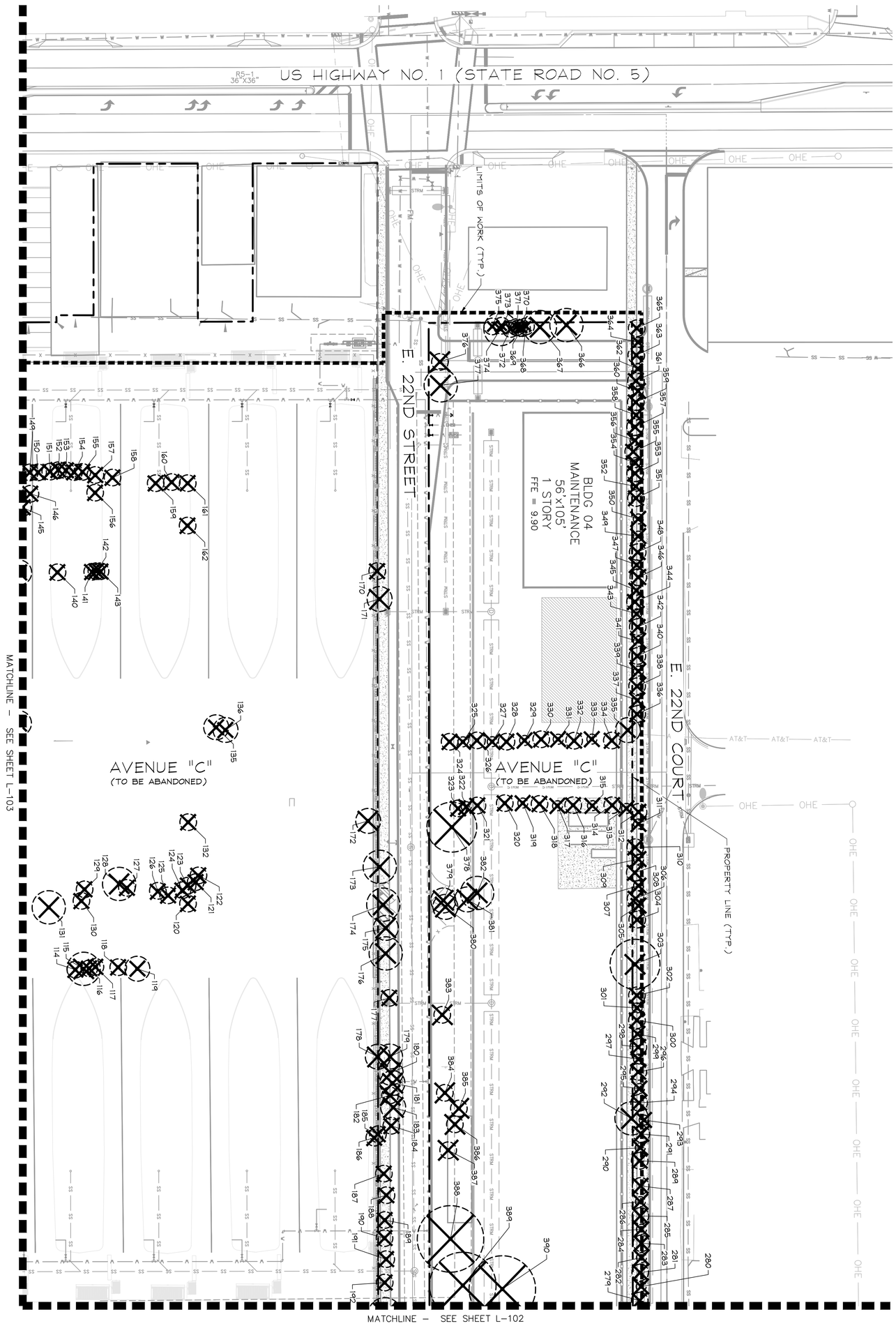
OVERALL TREE DISPOSITION PLAN

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
L-100

CASE: 23-0007
Page 79 of 352

Plotted By:Alexa, Kristen Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:L-101 TREE DISPOSITION PLAN May 08, 2023 05:09:16pm K:\BCD_Civil\145994004 – Safe Harbor Riviera Beach\CADD\PlanSheets\L-100 TREE DISPOSITION PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



KEY:

TREE TO REMAIN	
TREE TO BE REMOVED	
TREE TO BE RELOCATED	
TREE TO BE PROTECTED PER DETAIL ON SHEET L-106	

GRAPHIC SCALE IN FEET
0 15 30 60

NORTH

SHEET NUMBER
L-101

SAFE HARBOR RIVIERA BEACH

PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

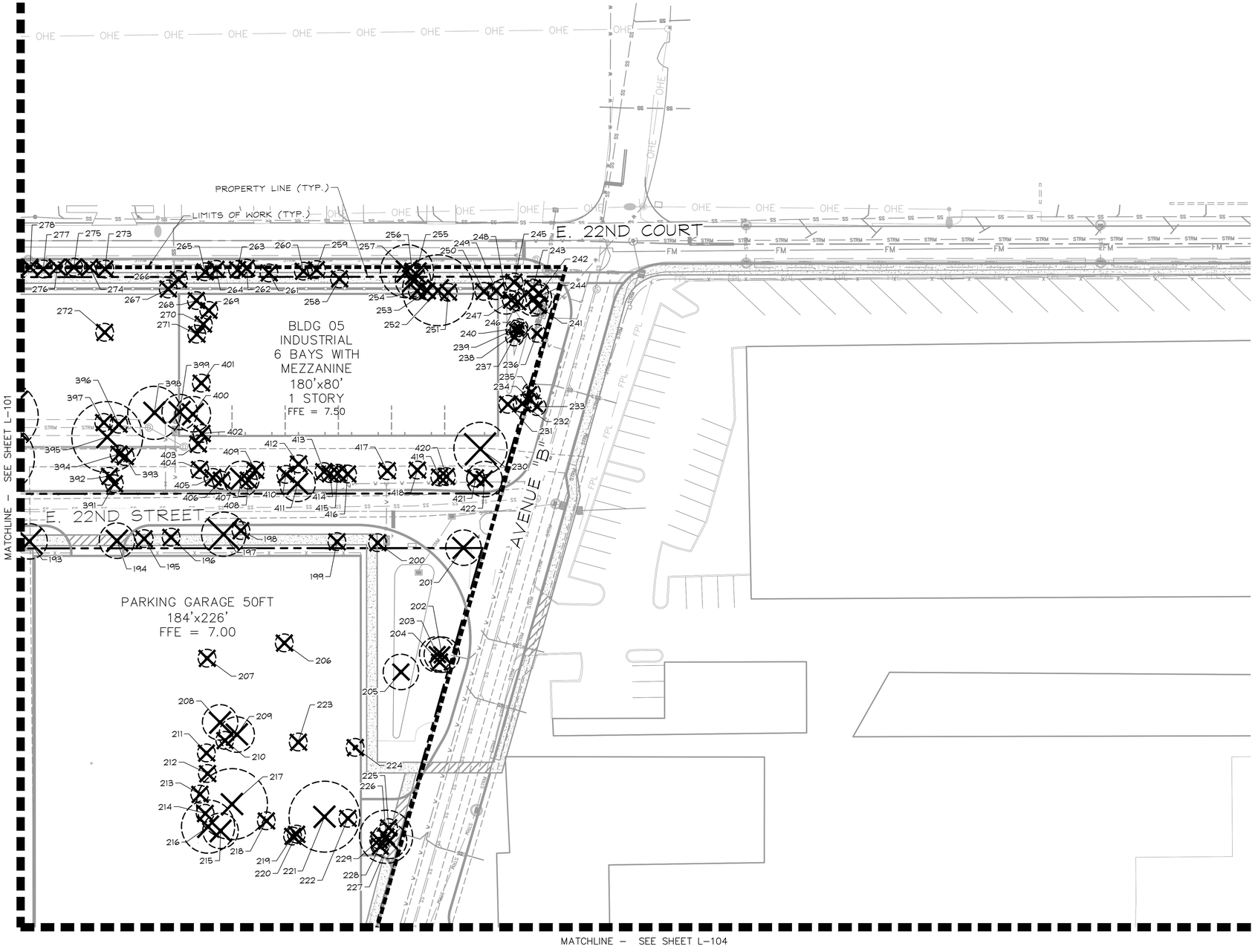
TREE DISPOSITION PLAN

KHA PROJECT	145994004
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	BM
DRAWN BY	BM
CHECKED BY	TR
DATE:	

Kristen E. Alexa, PLA
Kimley-Horn
LA #6667555
2023.05.08
17:59:05-04'00'

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE, SUITE 201,
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

No.	REVISIONS	DATE	BY



Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201,
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

Kristen E. Alexa, PLA
Kimley-Horn
LA #6667555
2023.05.08
17:59:30-04'00'

No.	REVISIONS	DATE	BY

KHA PROJECT 145994004
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY BM
DRAWN BY BM
CHECKED BY TR

TREE DISPOSITION PLAN

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
L-102

Plotted By:Alexa, Kristen Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:L-102 TREE DISPOSITION PLAN May 08, 2023 05:09:23pm K:\BCD Civil\145994004 – Safe Harbor Riviera Beach\CAD\PlanSheets\L-100 TREE DISPOSITION PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

MATCHLINE – SEE SHEET L-101

MATCHLINE – SEE SHEET L-104

E. 21ST STREET

20TH STREET

US HIGHWAY NO. 1 (STATE ROAD NO. 5)

AVENUE "C"
(TO BE ABANDONED)

BLDG 02
TRADE SHOP
AND OFFICE
(3 STORIES)
FFE = 10.10

BLDG 01
SUBCONTRACTOR
AND OFFICE
(3 STORIES)
FFE = 10.60

PROPERTY LINE (TYP.)

LIMITS OF WORK (TYP.)

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

KEY:

- TREE TO REMAIN
- TREE TO BE REMOVED
- TREE TO BE RELOCATED
- TREE TO BE PROTECTED PER DETAIL ON SHEET L-106

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201,
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

Kristen E. Alexa, PLA
Kimley-Horn
LA #6667555
2023.05.08
17:59:49-04'00"

KHA PROJECT	145994004
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	BM
DRAWN BY	BM
CHECKED BY	TR

TREE DISPOSITION PLAN

SAFE HARBOR
RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
L-103

Plotted By: Alexa, Kristen Sheet Set: SAFE HARBOR RIVIERA BEACH Layout: L-103 TREE DISPOSITION PLAN May 08, 2023 05:09:30pm K:\BCD_Civil\145994004 – Safe Harbor Riviera Beach\CAD\PlanSheets\L-100 TREE DISPOSITION PLAN.dwg

Use of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and

MATCHLINE – SEE SHEET L-102

MATCHLINE – SEE SHEET L-103

PROPERTY LINE (TYP.)

TREE PROTECTION (TYP.)

LIMITS OF WORK (TYP.)

AVENUE "B"

PRIVATE BLDG 07

COVERED PRIVATE AMENITY AREA

COVERED

POOL 35'x20'

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

KEY:

- TREE TO REMAIN
- TREE TO BE REMOVED
- TREE TO BE RELOCATED
- TREE TO BE PROTECTED PER DETAIL ON SHEET L-106

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

Kristen E. Alexa, PLA
Kimley-Horn
LA #6667555
2023.05.08 18:00:10-04'00'

KHA PROJECT 145994004
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY BM
DRAWN BY BM
CHECKED BY TR

TREE DISPOSITION PLAN

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
L-104

Plotted By: Alexa, Kristen Sheet Set: SAFE HARBOR RIVIERA BEACH Layout: L-104 TREE DISPOSITION PLAN May 08, 2023 05:09:37pm K:\BCD_Civil\145994004 – Safe Harbor Riviera Beach\CAD\PlanSheets\L-100 TREE DISPOSITION PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

NUMBER	NAME	BOTANICAL NAME	DIAMETER (")	SPREAD (')	HEIGHT (')	CONDITION	DISPOSITION
1	Royal Palm	*Roystonea regia*	20'	15'	30'	GOOD	REMOVE
2	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
3	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
4	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
5	Royal Palm	*Roystonea regia*	20'	15'	30'	GOOD	REMOVE
6	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
7	Oleander Tree	*Nerium oleander*	5"	15'	15'	GOOD	REMOVE
8	Royal Palm	*Roystonea regia*	10'	15'	30'	FAIR	REMOVE
9	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
10	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
11	Oleander Tree	*Nerium oleander*	4"	10'	15'	GOOD	REMOVE
12	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
13	Oleander Tree	*Nerium oleander*	4"	10'	15'	GOOD	REMOVE
14	Oleander Tree	*Nerium oleander*	5"	10'	15'	FAIR	REMOVE
15	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
16	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
17	Royal Palm	*Roystonea regia*	20'	15'	30'	GOOD	REMOVE
18	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
19	Royal Palm	*Roystonea regia*	20'	15'	30'	GOOD	REMOVE
20	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
21	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
22	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
23	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
24	Gumbo Limbo	*Bursera simaruba*	10"	20'	25'	GOOD	REMOVE
25	Mahogany Tree	*Swietenia mahogani*	22"	25'	25'	GOOD	REMOVE
26	Mahogany Tree	*Swietenia mahogani*	22"	25'	25'	GOOD	REMOVE
27	Cabbage Palm	*Sabal palmetto*	15'	10'	25'	GOOD	REMOVE
28	Oleander Tree	*Nerium oleander*		10'	10'	GOOD	REMOVE
29	Oleander Tree	*Nerium oleander*		10'	10'	GOOD	REMOVE
30	Oleander Tree	*Nerium oleander*		10'	10'	GOOD	REMOVE
31	Cabbage Palm	*Sabal palmetto*	15'	10'	25'	GOOD	REMOVE
32	Cabbage Palm	*Sabal palmetto*	15'	10'	25'	GOOD	REMOVE
33	Cabbage Palm	*Sabal palmetto*	15'	10'	25'	GOOD	REMOVE
34	Oleander Tree	*Nerium oleander*	4"	10'	10'	GOOD	REMOVE
35	Cabbage Palm	*Sabal palmetto*	15'	10'	25'	FAIR	REMOVE
36	Hibiscus	*Hibiscus rosa-sinensis*	3"	10'	10'	FAIR	REMOVE
37	Hibiscus	*Hibiscus rosa-sinensis*	3"	10'	10'	FAIR	REMOVE
38	Hibiscus	*Hibiscus rosa-sinensis*	3"	10'	10'	FAIR	REMOVE
39	Cabbage Palm	*Sabal palmetto*	15'	10'	25'	GOOD	REMOVE
40	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	4"	10'	10	GOOD	REMOVE
41	Cabbage Palm	*Sabal palmetto*	15'	10'	25'	GOOD	REMOVE
42	Jatropha	*Jatropha integerirma*	4"	10'	10'	GOOD	REMOVE
43	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	4"	10'	10	FAIR	REMOVE
44	Hibiscus	*Hibiscus rosa-sinensis*	4"	10'	10'	FAIR	REMOVE
45	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	10'	10	FAIR	REMOVE
46	Hibiscus	*Hibiscus rosa-sinensis*	3"	10'	10'	FAIR	REMOVE
47	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	10'	10	FAIR	REMOVE
48	Hibiscus	*Hibiscus rosa-sinensis*	3"	10'	10'	FAIR	REMOVE
49	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	10'	10	FAIR	REMOVE
50	Hibiscus	*Hibiscus rosa-sinensis*	3"	10'	10'	FAIR	REMOVE
51	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
52	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
53	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
54	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
55	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
56	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
57	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
58	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
59	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
60	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
61	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
62	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
63	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
64	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
65	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
66	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
67	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
68	Christmas Palm	*Adonidia merrillii*	10'	10'	15'	GOOD	REMOVE
69	Christmas Palm	*Adonidia merrillii*	10'	10'	15'	GOOD	REMOVE
70	Christmas Palm	*Adonidia merrillii*	10'	10'	15'	GOOD	REMOVE
71	Christmas Palm	*Adonidia merrillii*	10'	10'	15'	GOOD	REMOVE
72	Christmas Palm	*Adonidia merrillii*	10'	10'	15'	GOOD	REMOVE
73	Christmas Palm	*Adonidia merrillii*	10'	10'	15'	GOOD	REMOVE
74	Christmas Palm	*Adonidia merrillii*	10'	10'	15'	GOOD	REMOVE
75	Christmas Palm	*Adonidia merrillii*	10'	10'	15'	GOOD	REMOVE
76	Christmas Palm	*Adonidia merrillii*	10'	10'	15'	GOOD	REMOVE
77	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	POOR	REMOVE
78	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
79	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
80	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
81	Live Oak	*Quercus virginiana*	32"	30'	35'	FAIR	REMOVE
82	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
83	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
84	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
85	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
86	Mango Tree	*Mangifera indica*	10"	20'	25'	GOOD	REMOVE
87	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
88	Mango Tree	*Mangifera indica*	11"	10'	25'	FAIR	REMOVE
89	Mango Tree	*Mangifera indica*	16"	30'	25'	GOOD	REMOVE
90	Mango Tree	*Mangifera indica*	17"	20'	25'	GOOD	REMOVE
91	Mango Tree	*Mangifera indica*	14"	20'	25'	GOOD	REMOVE
92	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
93	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	FAIR	REMOVE
94	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	FAIR	REMOVE
95	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
96	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
97	Live Oak	*Quercus virginiana*	18"	40'	30'	GOOD	REMOVE
98	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
99	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
100	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE

NUMBER	NAME	BOTANICAL NAME	DIAMETER (")	SPREAD (')	HEIGHT (')	CONDITION	DISPOSITION
101	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
102	Frangipani	*Plumeria alba*	6"	10'	20'	FAIR	REMOVE
103	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
104	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
105	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
106	Cabbage Palm	*Sabal palmetto*	16'	10'	20'	GOOD	REMOVE
107	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
108	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
109	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
110	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
111	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
112	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
113	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
114	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
115	Mango Tree	*Mangifera indica*	17"	20'	25'	GOOD	REMOVE
116	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	FAIR	REMOVE
117	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
118	Mango Tree	*Mangifera indica*	8"	10'	20'	GOOD	REMOVE
119	Mango Tree	*Mangifera indica*	15"	15'	20'	GOOD	REMAIN
120	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
121	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
122	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
123	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
124	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
125	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	FAIR	REMOVE
126	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	FAIR	REMOVE
127	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	FAIR	REMOVE
128	Live Oak	*Quercus virginiana*	13"	20'	26'	FAIR	REMOVE
129	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
130	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
131	Banyan Tree	*Ficus benghalensis*	28"	20'	25'	PROHIBITED	REMOVE
132	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
133	Solitaire Palm	*Pttychosperma elegans*	5'	10'	10'	GOOD	REMOVE
134	Gumbo Limbo	*Bursera simaruba*	10"	15'	15'	GOOD	REMOVE
135	Coconut Palm	*Cocos nucifera*	15'	15'	25'	GOOD	REMOVE
136	Coconut Palm	*Cocos nucifera*	15'	15'	25'	GOOD	REMOVE
137	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
138	Mango Tree	*Mangifera indica*	15"	20'	20'	GOOD	REMOVE
139	Coconut Palm	*Cocos nucifera*	20'	15'	30'	GOOD	REMOVE
140	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
141	Mango Tree	*Mangifera indica*	8"	10'	20'	GOOD	REMOVE
142	Mango Tree	*Mangifera indica*	9"	10'	20'	GOOD	REMOVE
143	Mango Tree	*Mangifera indica*	9"	10'	20'	GOOD	REMOVE
144	Mexican Fan Palm	*Washingtonia ribusta*	20'	10'	25'	GOOD	REMOVE
145	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
146	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
147	Mexican Fan Palm	*Washingtonia ribusta*	5'	10'	10'	GOOD	REMOVE
148	Palm	*Unknown*	5'	10'	10'	FAIR	REMOVE
149	Palm	*Unknown*	5'	10'	10'	FAIR	REMOVE
150	Palm	*Unknown*	5'	10'	10'	FAIR	REMOVE
151	Palm	*Unknown*	5'	10'	10'	FAIR	REMOVE
152	Palm	*Unknown*	5'	10'	10'	FAIR	REMOVE
153	Palm	*Unknown*	5'	10'	10'	FAIR	REMOVE
154	Palm	*Unknown*	5'	10'	10'	FAIR	REMOVE
155	Palm	*Unknown*	5'	10'	10'	FAIR	REMOVE
156	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
157	Unknown	*Unknown*				POOR	REMOVE
158	Unknown	*Unknown*				POOR	REMOVE
159	Queen Palm	*Syagrus romanzoffiana*	10'	10'	15'	FAIR	REMOVE
160	Queen Palm	*Syagrus romanzoffiana*	15'	10'	20'	FAIR	REMOVE
161	Queen Palm	*Syagrus romanzoffiana*	15'	10'	20'	FAIR	REMOVE
162	Solitaire Palm	*Pttychosperma elegans*	10'	10'	10'	GOOD	REMOVE
170	Areca Palm	*Dypsis lutescens*		10'	15'	GOOD	REMOVE
171	Live Oak	*Quercus virginiana*	12"	20'	20'	GOOD	REMOVE
172	Royal Poinciana	*Delonix regia*	10"	15'	20'	GOOD	REMOVE
173	Japanese Blueberry	*Eleocarpus deipiens*	17"	20'	20'	GOOD	REMOVE
174	Gumbo Limbo	*Bursera simaruba*	12"	20'	20'	GOOD	REMOVE
175	Gumbo Limbo	*Bursera simaruba*	16"	15'	20'	POOR	REMOVE
176	Gumbo Limbo	*Bursera simaruba*	11"	20'	20'	FAIR	REMOVE
177	Coconut Palm	*Cocos nucifera*	15'	15'	25'	FAIR	REMOVE
178	Coconut Palm	*Cocos nucifera*	15'	15'	25'	GOOD	REMOVE
179	Coconut Palm	*Cocos nucifera*	15'	15'	25'	GOOD	REMOVE
180	Coconut Palm	*Cocos nucifera*	10'	15'	20'	GOOD	REMOVE
181	Coconut Palm	*Cocos nucifera*	10'	15'	20'	GOOD	REMOVE
182	Jatropha	*Jatropha integeririma*	4"	10'	10'	GOOD	REMOVE
183	Coconut Palm	*Cocos nucifera*	10'	15'	20'	GOOD	REMOVE
184	Jatropha	*Jatropha integeririma*	4"	10'	10'	GOOD	REMOVE
185	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
186	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
187	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
188	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
189	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
190	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
191	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
192	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
193	Gumbo Limbo	*Bursera simaruba*	12"	20'	20'	FAIR	REMOVE
194	Gumbo Limbo	*Bursera simaruba*	10"	20'	20'	GOOD	REMOVE
195	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
196	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
197	Live Oak	*Quercus virginiana*	17"	25'	30'	GOOD	REMOVE
198	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
199	Unknown	*Unknown*	6"	10'	10'	FAIR	REMOVE
200	Unknown	*Unknown*	8"	10'	10'	FAIR	REMOVE

Plotted By: Alexa, Kristen Sheet Set: SAFE HARBOR RIVIERA BEACH Layout: L-105 TREE DISPOSITION PLAN May 08, 2023 05:09:38pm K:\WCD_Civil\145994004 - Safe Harbor Riviera Beach\CAD\PlanSheets\L-105 TREE DISPOSITION PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

Kristen E. Alexa, PLA
Kimley-Horn
LA #6667555
2023.05.08 18:00:38-04'00'

KHA PROJECT 145994004
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

TREE DISPOSITION PLAN

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
L-105

NUMBER	NAME	BOTANICAL NAME	DIAMETER (")	SPREAD (')	HEIGHT (')	CONDITION	DISPOSITION
201	Unknown	*Unknown*	14"	20'	20'	FAIR	REMOVE
202	Live Oak	*Quercus virginiana*	11"	20'	20'	FAIR	REMOVE
203	Live Oak	*Quercus virginiana*	14"	20'	20'	FAIR	REMOVE
204	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
205	Live Oak	*Quercus virginiana*	12"	20'	20'	GOOD	REMOVE
206	Unknown	*Unknown*	3"	10'	20'	FAIR	REMOVE
207	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
208	Mango Tree	*Mangifera indica*	12"	20'	25'	GOOD	REMOVE
209	Mango Tree	*Mangifera indica*	15"	20'	25'	GOOD	REMOVE
210	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	POOR	REMOVE
211	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	FAIR	REMOVE
212	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
213	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
214	Cabbage Palm	*Sabal palmetto*	5'	10'	10'	FAIR	REMOVE
215	Cabbage Palm	*Sabal palmetto*	5'	10'	10'	FAIR	REMOVE
216	Live Oak	*Quercus virginiana*	20"	30'	30'	GOOD	REMOVE
217	Live Oak	*Quercus virginiana*	17"	40'	30'	GOOD	REMOVE
218	Cabbage Palm	*Sabal palmetto*	5'	10'	10'	FAIR	REMOVE
219	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
220	Cabbage Palm	*Sabal palmetto*	16'	10'	20'	GOOD	REMOVE
221	Live Oak	*Quercus virginiana*	24"	40'	30'	GOOD	REMOVE
222	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	FAIR	REMOVE
223	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
224	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
225	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
226	Live Oak	*Quercus virginiana*	15"	30'	30'	FAIR	REMOVE
227	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
228	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
229	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
230	Live Oak	*Quercus virginiana*	18"	30'	30'	GOOD	REMOVE
231	Cabbage Palm	*Sabal palmetto*	15'	10'	25'	GOOD	REMOVE
232	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
233	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
234	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
235	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
236	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
237	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
238	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
239	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
240	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
241	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
242	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
243	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
244	Unknown	*Unknown*	10"	20'	20'	POOR	REMOVE
245	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
246	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
247	Umbrella Tree	*Schefflera actinophylla*	16"	10'	15'	INVASIVE	REMOVE
248	Gumbo Limbo	*Bursera simaruba*	11"	20'	20'	GOOD	REMOVE
249	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
250	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
251	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
252	Mango Tree	*Mangifera indica*	21"	40'	30'	GOOD	REMOVE
253	Areca Palm	*Dypsis lutescens*		10'	10'	FAIR	REMOVE
254	Umbrella Tree	*Schefflera actinophylla*		10'	15'	GOOD	REMOVE
255	Mango Tree	*Mangifera indica*	14"	20'	30'	INVASIVE	REMOVE
256	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
257	Live Oak	*Quercus virginiana*	12"	30'	30'	FAIR	REMOVE
258	Banyan Tree	*Ficus benghalensis*	6"	10'	15'	PROHIBITED	REMOVE
259	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
260	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
261	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
262	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
263	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
264	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
265	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
266	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
267	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
268	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
269	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
270	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
271	Unknown	*Unknown*		10'	15'	GOOD	REMOVE
272	Cabbage Palm	*Sabal palmetto*	10'	10'	20'	GOOD	REMOVE
273	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
274	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	2"	6'	10'	GOOD	REMOVE
275	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
276	Unknown	*Unknown*	3"	6'	10'	FAIR	REMOVE
277	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
278	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	2"	5'	10'	GOOD	REMOVE
279	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
280	Unknown	*Unknown*	3"	6'	10'	GOOD	REMOVE
281	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
282	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
283	Cabbage Palm	*Sabal palmetto*	10'	10'	10'	GOOD	REMOVE
284	Unknown	*Unknown*	2"	6'	10'	FAIR	REMOVE
285	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
286	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
287	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
288	Unknown	*Unknown*	3"	6'	10'	GOOD	REMOVE
289	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
290	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	2"	6'	10'	GOOD	REMOVE
291	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
292	Gumbo Limbo	*Bursera simaruba*	10"	20'	20'	GOOD	REMOVE
293	Unknown	*Unknown*	3"	6'	10'	GOOD	REMOVE
294	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
295	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	2"	6'	10'	GOOD	REMOVE
296	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
297	Unknown	*Unknown*	3"	6'	10'	GOOD	REMOVE
298	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
299	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	2"	6'	10'	GOOD	REMOVE
300	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE

NUMBER	NAME	BOTANICAL NAME	DIAMETER (")	SPREAD (')	HEIGHT (')	CONDITION	DISPOSITION
301	Unknown	*Unknown*	3"	6'	10'	GOOD	REMOVE
302	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
303	Live Oak	*Quercus virginiana*	12"	30'	30'	GOOD	REMOVE
304	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
305	Unknown	*Unknown*	3"	6'	10'	FAIR	REMOVE
306	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
307	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
308	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
309	Unknown	*Unknown*	3"	6'	10'	GOOD	REMOVE
310	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
311	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
312	Cabbage Palm	*Sabal palmetto*	10'	10'	10'	DEAD	REMOVE
313	Unknown	*Unknown*	3"	6'	10'	FAIR	REMOVE
314	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
315	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
316	Cabbage Palm	*Sabal palmetto*	10'	10'	10'	GOOD	REMOVE
317	Unknown	*Unknown*	3"	6'	10'	GOOD	REMOVE
318	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
319	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
320	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
321	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
322	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
323	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
324	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
325	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
326	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
327	Unknown	*Unknown*	3"	6'	10'	GOOD	REMOVE
328	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
329	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
330	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
331	Unknown	*Unknown*	4"	6'	10'	GOOD	REMOVE
332	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
333	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
334	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
335	Unknown	*Unknown*	5"	15'	15'	GOOD	REMOVE
336	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
337	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
338	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
339	Unknown	*Unknown*	4"	6'	10'	GOOD	REMOVE
340	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
341	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
342	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
343	Unknown	*Unknown*	4"	6'	10'	GOOD	REMOVE
344	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
345	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
346	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
347	Unknown	*Unknown*	5"	6'	10'	FAIR	REMOVE
348	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
349	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
350	Unknown	*Unknown*	4"	6'	10'	GOOD	REMOVE
351	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
352	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
353	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
354	Unknown	*Unknown*	6"	6'	10'	GOOD	REMOVE
355	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
356	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
357	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
358	Unknown	*Unknown*	5"	6'	10'	GOOD	REMOVE
359	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
360	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
361	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
362	Unknown	*Unknown*	3"	6'	10'	GOOD	REMOVE
363	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
364	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
365	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
366	Mango Tree	*Mangifera indica*		20'	25'		REMOVE
367	Mango Tree	*Mangifera indica*		20'	25'		REMOVE
368	Christmas Palm	*Adonidia merrillii*	15'	10'	20'		REMOVE
369	Christmas Palm	*Adonidia merrillii*	15'	10'	20'		REMOVE
370	Christmas Palm	*Adonidia merrillii*	15'	10'	20'		REMOVE
371	Christmas Palm	*Adonidia merrillii*	15'	10'	20'		REMOVE
372	Christmas Palm	*Adonidia merrillii*	10'	10'	15'		REMOVE
373	Christmas Palm	*Adonidia merrillii*	10'	10'	15'		REMOVE
374	Live Oak	*Quercus virginiana*	9"	20'	25'		REMOVE
375	Christmas Palm	*Adonidia merrillii*	10'	10'	15'		REMOVE
376	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
377	Gumbo Limbo	*Bursera simaruba*	16"	20'	25'	GOOD	REMOVE
378	Live Oak	*Quercus virginiana*	10"	30'	30'	GOOD	REMOVE
379	Live Oak	*Quercus virginiana*	5"	15'	20'	FAIR	REMOVE
380	Live Oak	*Quercus virginiana*	7"	15'	20'	FAIR	REMOVE
381	Live Oak	*Quercus virginiana*	11"	15'	25'	GOOD	REMOVE
382	Live Oak	*Quercus virginiana*	13"	20'	25'	GOOD	REMOVE
383	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
384	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
385	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
386	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
387	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
388	Live Oak	*Quercus virginiana*	22"	40'	30'	GOOD	REMOVE
389	Live Oak	*Quercus virginiana*	24"	40'	30'	GOOD	REMOVE
390	Live Oak	*Quercus virginiana*	22"	40'	30'	GOOD	REMOVE
391	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
392	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
393	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
394	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
395	Live Oak	*Quercus virginiana*	42"	40'	30'	GOOD	REMOVE
396	Live Oak	*Quercus virginiana*	5"	10'	15'	FAIR	REMOVE
397	Live Oak	*Quercus virginiana*	7"	10'	15'	FAIR	REMOVE
398	Mango Tree	*Mangifera indica*	12"	30'	30'	GOOD	REMOVE
399	Umbrella Tree	*Schefflera actinophylla*	21"	20'	20'	INVASIVE	REMOVE
400	Mango Tree	*Mangifera indica*	14"	20'	25'	POOR	REMOVE

Plotted By: Alexa, Kristen Sheet Set: SAFE HARBOR RIVIERA BEACH Layout: L-106 TREE DISPOSITION PLAN May 08, 2023 05:09:43pm K:\WPB_Civil\145994004 - Safe Harbor Riviera Beach\CAD\PlanSheets\L-100 TREE DISPOSITION PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201,
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

Kristen E. Alexa, PLA
Kimley-Horn
LA #6667555
2023.05.08 18:00:59-04'00'

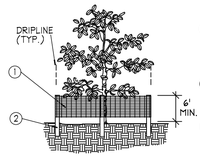
KHA PROJECT 145994004
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

TREE DISPOSITION PLAN

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
L-106

NUMBER	NAME	BOTANICAL NAME	DIAMETER (")	SPREAD (')	HEIGHT (')	CONDITION	DISPOSITION
401	**Cabbage Palm**	***Sabal palmetto***	**10"**	**15'**	**15'**	**GOOD**	**REMOVE**
402	**Cabbage Palm**	***Sabal palmetto***	**5'**	**10'**	**10'**	**GOOD**	**REMOVE**
403	**Cabbage Palm**	***Sabal palmetto***	**15'**	**10'**	**20'**	**GOOD**	**REMOVE**
404	**Cabbage Palm**	***Sabal palmetto***	**15'**	**10'**	**20'**	**GOOD**	**REMOVE**
405	**Cabbage Palm**	***Sabal palmetto***	**10'**	**10'**	**15'**	**GOOD**	**REMOVE**
406	**Cabbage Palm**	***Sabal palmetto***	**10'**	**10'**	**15'**	**GOOD**	**REMOVE**
407	**Gumbo Limbo**	***Bursera simaruba***	**11"**	**20'**	**25'**	**GOOD**	**REMOVE**
408	**Cabbage Palm**	***Sabal palmetto***	**15'**	**10'**	**20'**	**GOOD**	**REMOVE**
409	**Cabbage Palm**	***Sabal palmetto***	**5'**	**10'**	**10'**	**GOOD**	**REMOVE**
410	**Cabbage Palm**	***Sabal palmetto***	**15'**	**10'**	**20'**	**GOOD**	**REMOVE**
411	**Live Oak**	***Quercus virginiana***	**17"**	**20'**	**30'**	**GOOD**	**REMOVE**
412	**Cabbage Palm**	***Sabal palmetto***	**10'**	**10'**	**15'**	**GOOD**	**REMOVE**
413	**Cabbage Palm**	***Sabal palmetto***	**5'**	**10'**	**10'**	**GOOD**	**REMOVE**
414	**Cabbage Palm**	***Sabal palmetto***	**5'**	**10'**	**10'**	**GOOD**	**REMOVE**
415	**Cabbage Palm**	***Sabal palmetto***	**5'**	**10'**	**10'**	**GOOD**	**REMOVE**
416	**Cabbage Palm**	***Sabal palmetto***	**5'**	**10'**	**10'**	**GOOD**	**REMOVE**
417	**Cabbage Palm**	***Sabal palmetto***	**5'**	**10'**	**10'**	**GOOD**	**REMOVE**
418	**Cabbage Palm**	***Sabal palmetto***	**10'**	**10'**	**15'**	**GOOD**	**REMOVE**
419	**Cabbage Palm**	***Sabal palmetto***	**10'**	**10'**	**15'**	**GOOD**	**REMOVE**
420	**Cabbage Palm**	***Sabal palmetto***	**10'**	**10'**	**15'**	**GOOD**	**REMOVE**
421	**Cabbage Palm**	***Sabal palmetto***	**5'**	**10'**	**10'**	**GOOD**	**REMOVE**
422	**Gumbo Limbo**	***Bursera simaruba***	**16"**	**20'**	**25'**	**GOOD**	**REMOVE**
423	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMAIN
424	Coconut Palm	*Cocos nucifera*	15'	15'	25'	GOOD	REMAIN
425	Jatropha	*Jatropha integeririma*	3"	6'	10'	FAIR	REMAIN
426	Jatropha	*Jatropha integeririma*	3"	6'	10'	GOOD	REMAIN
427	Coconut Palm	*Cocos nucifera*	15'	15'	25'	GOOD	REMAIN
428	Jatropha	*Jatropha integeririma*	3"	6'	10'	GOOD	REMAIN
429	Jatropha	*Jatropha integeririma*	3"	6'	10'	GOOD	REMAIN
430	Coconut Palm	*Cocos nucifera*	15'	15'	25'	GOOD	REMAIN
431	Coconut Palm	*Cocos nucifera*	20'	15'	30'	GOOD	REMAIN
432	Coconut Palm	*Cocos nucifera*	20'	15'	30'	GOOD	REMAIN
433	Coconut Palm	*Cocos nucifera*	20'	15'	30'	GOOD	REMAIN
434	Live Oak	*Quercus virginiana*	10"	20'	25'	GOOD	REMAIN
435	Jatropha	*Jatropha integeririma*	3"	10'	10'	GOOD	REMAIN
436	Pygmy Date Palm	*Phoenix roebelenii*	3'	10'	10'	GOOD	REMAIN
437	Live Oak	*Quercus virginiana*	8"	20'	20'	FAIR	REMAIN
438	Live Oak	*Quercus virginiana*	10"	20'	20'	FAIR	REMAIN
439	Coconut Palm	*Cocos nucifera*	10'	15'	20'	GOOD	REMAIN
440	Coconut Palm	*Cocos nucifera*	10'	15'	20'	GOOD	REMAIN
441	Coconut Palm	*Cocos nucifera*	10'	15'	20'	GOOD	REMAIN
442	Coconut Palm	*Cocos nucifera*	10'	15'	20'	GOOD	REMAIN
443	Coconut Palm	*Cocos nucifera*	10'	15'	20'	GOOD	REMAIN
444	Coconut Palm	*Cocos nucifera*	10'	15'	20'	GOOD	REMAIN
445	Coconut Palm	*Cocos nucifera*	10'	15'	20'	GOOD	REMAIN
446	Coconut Palm	*Cocos nucifera*	10'	15'	20'	GOOD	REMAIN
447	**Coconut Palm**	***Cocos nucifera***	**10'**	**15'**	**20'**	**GOOD**	**REMOVE**
448	**Coconut Palm**	***Cocos nucifera***	**10'**	**15'**	**20'**	**GOOD**	**REMOVE**
449	**Coconut Palm**	***Cocos nucifera***	**10'**	**15'**	**20'**	**GOOD**	**REMOVE**
450	**Coconut Palm**	***Cocos nucifera***	**10'**	**15'**	**20'**	**GOOD**	**REMOVE**
451	**Coconut Palm**	***Cocos nucifera***	**10'**	**15'**	**20'**	**GOOD**	**REMOVE**
452	**Coconut Palm**	***Cocos nucifera***	**10'**	**15'**	**20'**	**GOOD**	**REMOVE**
453	**Coconut Palm**	***Cocos nucifera***	**10'**	**15'**	**20'**	**GOOD**	**REMOVE**
454	**Coconut Palm**	***Cocos nucifera***	**10'**	**15'**	**20'**	**GOOD**	**REMOVE**
455	**Coconut Palm**	***Cocos nucifera***	**10'**	**15'**	**20'**	**GOOD**	**REMOVE**
456	**Mexican Fan Palm**	***Washingtonia ribusta***	**15'**	**10'**	**20'**	**GOOD**	**REMOVE**
457	**Mexican Fan Palm**	***Washingtonia ribusta***	**15'**	**10'**	**20'**	**GOOD**	**REMOVE**
458	**Mexican Fan Palm**	***Washingtonia ribusta***	**20'**	**10'**	**25'**	**GOOD**	**REMOVE**
459	**Mexican Fan Palm**	***Washingtonia ribusta***	**20'**	**10'**	**25'**	**GOOD**	**REMOVE**
460	**Mexican Fan Palm**	***Washingtonia ribusta***	**20'**	**10'**	**25'**	**GOOD**	**REMOVE**
461	**Mexican Fan Palm**	***Washingtonia ribusta***	**20'**	**10'**	**25'**	**GOOD**	**REMOVE**
462	**Mexican Fan Palm**	***Washingtonia ribusta***	**20'**	**10'**	**25'**	**GOOD**	**REMOVE**
463	**Mexican Fan Palm**	***Washingtonia ribusta***	**20'**	**10'**	**25'**	**GOOD**	**REMOVE**
464	**Mexican Fan Palm**	***Washingtonia ribusta***	**20'**	**10'**	**25'**	**GOOD**	**REMOVE**
465	**Jatropha**	***Jatropha integeririma***	**3"**	**10'**	**10'**	**FAIR**	**REMOVE**
466	**Jatropha**	***Jatropha integeririma***	**3"**	**10'**	**10'**	**FAIR**	**REMOVE**
467	**Unknown**	***Unknown***	**3"**	**10'**	**10'**	**DEAD**	**REMOVE**



1. 6'H "PERIMETER PLUS" CONSTRUCTION FENCE BY CONWED PLASTICS OR OWNER'S REPRESENTATIVE APPROVED EQUAL. SUBMIT PRODUCT INFORMATION FOR APPROVAL PRIOR TO INSTALLATION.
2. 8' TALL METAL "T" POSTS OR 2" x 2" X 8' PRESSURE TREATED WOOD POSTS WITH 24" BURIAL BELOW GRADE.

INSTALLATION NOTES:

A. POST SELECTION SHOULD BE BASED ON EXPECTED STRENGTH NEEDS AND THE LENGTH OF TIME FENCE WILL BE IN PLACE. FLEXIBLE FIBERGLASS ROD POSTS ARE RECOMMENDED FOR PARKS, ATHLETIC EVENTS AND CROWD CONTROL INSTALLATIONS. METAL "T" POSTS OR TREATED WOOD POSTS ARE TYPICALLY USED FOR CONSTRUCTION AND OTHER APPLICATIONS.

B. POSTS SHOULD BE DRIVEN INTO THE GROUND TO A DEPTH OF 1/4 OF THE HEIGHT OF THE POST. FOR EXAMPLE, A 8' POST SHOULD BE SET AT LEAST 2' INTO THE GROUND.

C. SPACE POSTS EVERY 6' (MIN.) TO 8' (MAX.).

D. SECURE FENCING TO POST WITH NYLON CABLE TIES (AVAILABLE FROM CONWED PLASTICS). WOOD STRIPS MAY BE ALSO BE USED TO PROVIDE ADDITIONAL SUPPORT AND PROTECTION BETWEEN TIES AND POSTS.

NOTE: IF WIRE TIES ARE USED, AVOID DIRECT CONTACT WITH FENCE. WIRE MAY DAMAGE FENCE OVER TIME.

A Tree/Shrub Protector
Barrier Detail

NTS

TREE DISPOSITION SUMMARY:

TOTAL TREES PROTECTED	8
TOTAL TREES REMOVED	146
TOTAL PALMS PROTECTED	16
TOTAL PALMS REMOVED	289

NO.	REVISIONS	DATE	BY

Kimley»Horn

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.

1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

Kristen E. Alexa, PLA
Kimley-Horn
LA #6667555
2023.05.08 18:01:20-04'00'

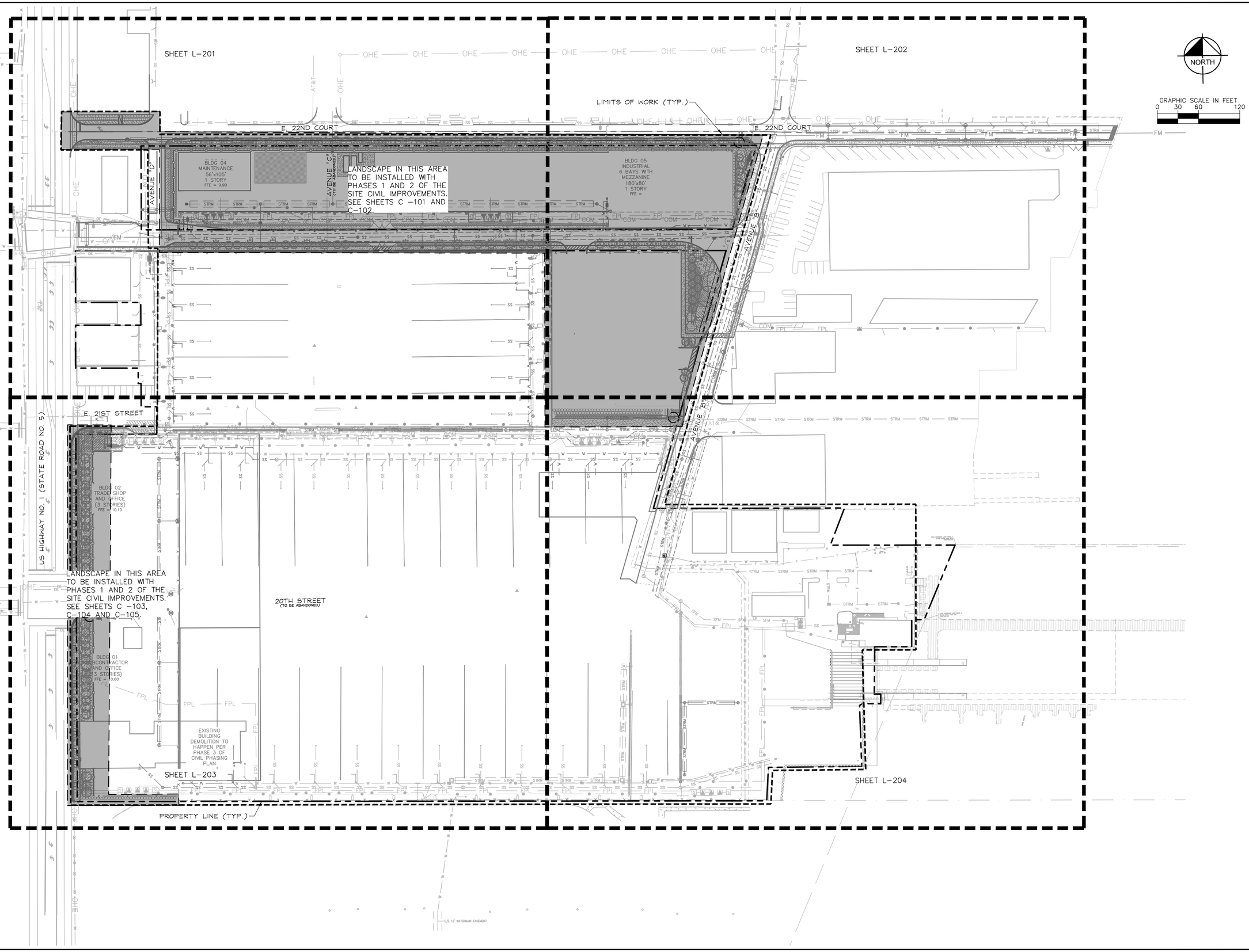
KHA PROJECT	145994004
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	JPL
DRAWN BY	AMS
CHECKED BY	MDS

TREE DISPOSITION PLAN

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
L-107

Plotted By:Alexa, Kristen Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:L-107 TREE DISPOSITION PLAN May 08, 2023 05:09:50pm K:\BRD_Civil\145994004 - Safe Harbor Riviera Beach\CAD\PlanSheets\L-100 TREE DISPOSITION PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

Kristen E. Alexa, PLA
Kimley-Horn
LA #6667555
2023.05.08
18:01:44-04'00'

KHA PROJECT 145994004
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

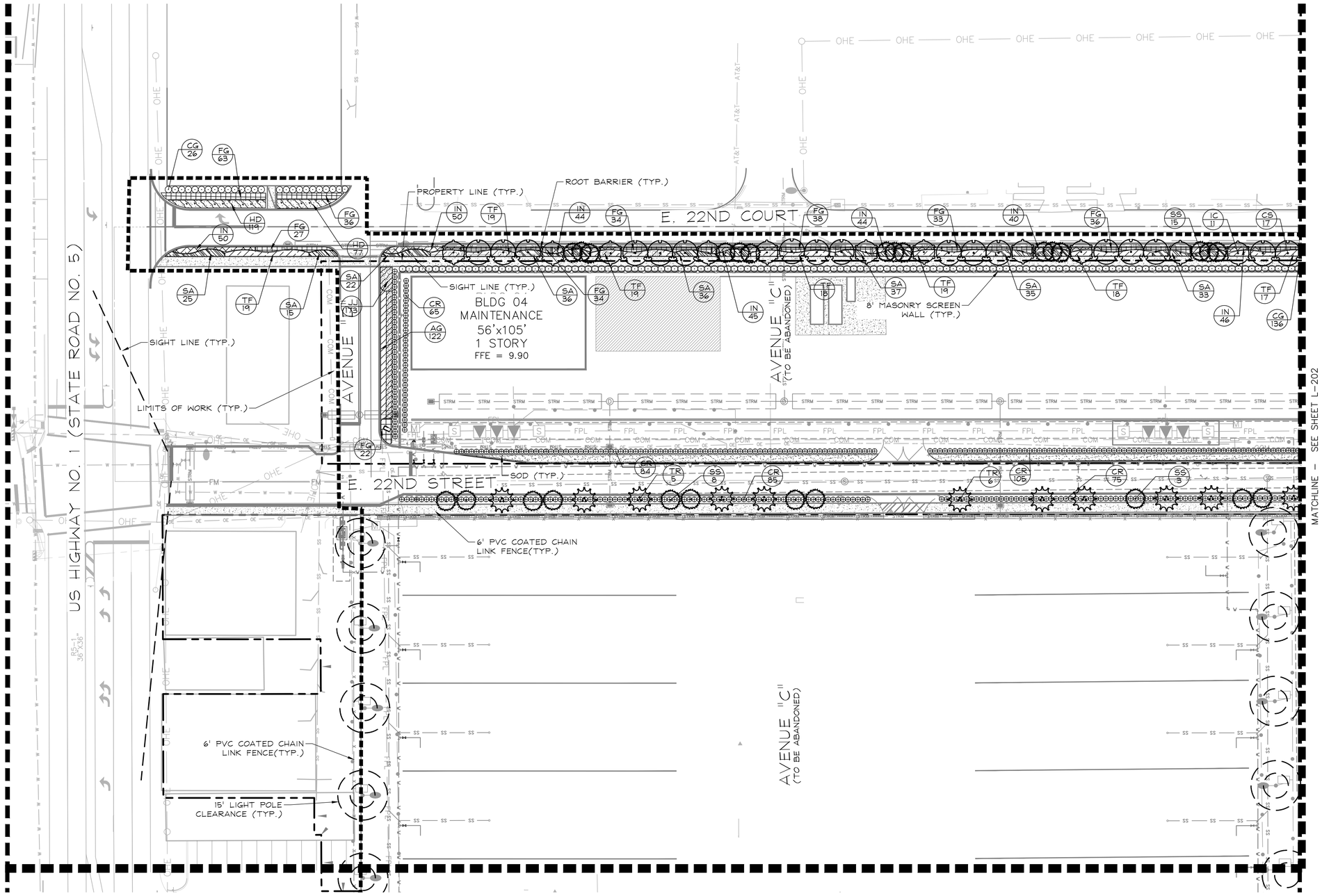
SAFE HARBOR RIVIERA BEACH

PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

PHASE 1 LANDSCAPE KEY MAP

SHEET NUMBER
L-200

Plotted By: Alexa, Kristen Sheet Set: SAFE HARBOR RIVIERA BEACH Layout: L-200 PHASE 1 LANDSCAPE KEY MAP May 08, 2023 05:25:32pm K:\BED_Civil\145994004 - Safe Harbor Riviera Beach\CADD\PlanSheets\L-200 LANDSCAPE PLAN.dwg
Copyright © 2023 Kimley-Horn and Associates, Inc. All rights reserved. This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adoption by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



PLANT SCHEDULE PHASE 1

TREES	**COMMON NAME**
CO	Orange Geiger Tree
CS	Silver Buttonwood 6' Clear Trunk
IC	Dahoon Holly 6' Clear Trunk
QV	Southern Live Oak 6' Clear Trunk
PALM TREES	**COMMON NAME**
SS	Cabbage Palmetto
TR	Florida Thatch Palm Double Trunk
SHRUBS	**COMMON NAME**
CG	Small Leaf Clusia
CR	Red Tip Cocoplum
SHRUB AREAS	**COMMON NAME**
FG	Green Island Ficus
IN	Dwarf Yaupon Holly
JJ	Wax Jasmine
MC	Pink Muhly Grass
SA	Green Schefflera
TF	Fakahatchee Grass
GROUND COVERS	**COMMON NAME**
AG	Perennial Peanut
HD	Beach Sunflower
SOD	Floratam St. Augustine Grass

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

Kristen E. Alexa, PLA
Kimley-Horn
LA #6667555
2023.05.08 18:02:18-04'00'

KHA PROJECT	145994004
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	JPL
DRAWN BY	AMS
CHECKED BY	MDS

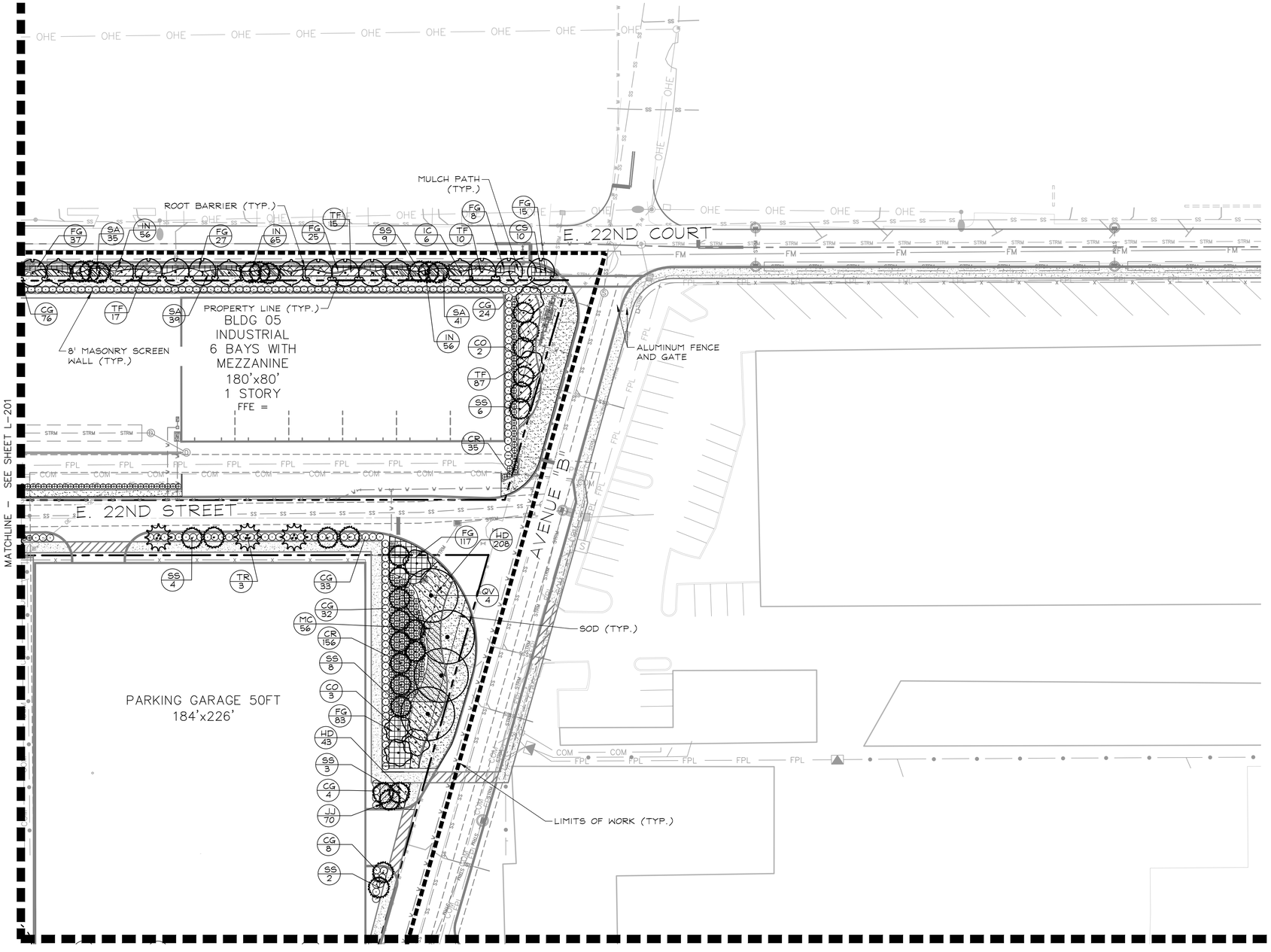
SAFE HARBOR RIVIERA BEACH

PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

PHASE 1 LANDSCAPE PLAN

SHEET NUMBER
L-201

Plotted By: Alexa, Kristen Sheet Set: SAFE HARBOR RIVIERA BEACH Layout: L-201 PHASE 1 LANDSCAPE PLAN May 08, 2023 05:26:56pm K:\WPB Civil\145994004 - Safe Harbor Riviera Beach\CADD\PlanSheets\L-200 LANDSCAPE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



PLANT SCHEDULE PHASE 1

TREES	COMMON NAME
CO	Orange Geiger Tree
CS	Silver Buttonwood 6' Clear Trunk
IC	Dahoon Holly 6' Clear Trunk
QV	Southern Live Oak 6' Clear Trunk
PALM TREES	**COMMON NAME**
SS	Cabbage Palmetto
TR	Florida Thatch Palm Double Trunk
SHRUBS	**COMMON NAME**
CG	Small Leaf Clusia
CR	Red Tip Cocoplum
SHRUB AREAS	**COMMON NAME**
FG	Green Island Ficus
IN	Dwarf Taupon Holly
JJ	Wax Jasmine
MC	Pink Muhly Grass
SA	Green Schefflera
TF	Fakahatchee Grass
GROUND COVERS	**COMMON NAME**
AG	Perennial Peanut
HD	Beach Sunflower
SOD	Floratam St. Augustine Grass

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

Kristen E. Alexa, PLA
Kimley-Horn
LA #6667555
2023.05.08 18:03:23-04'00'

KHA PROJECT	145994004
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	JPL
DRAWN BY	AMS
CHECKED BY	MDS

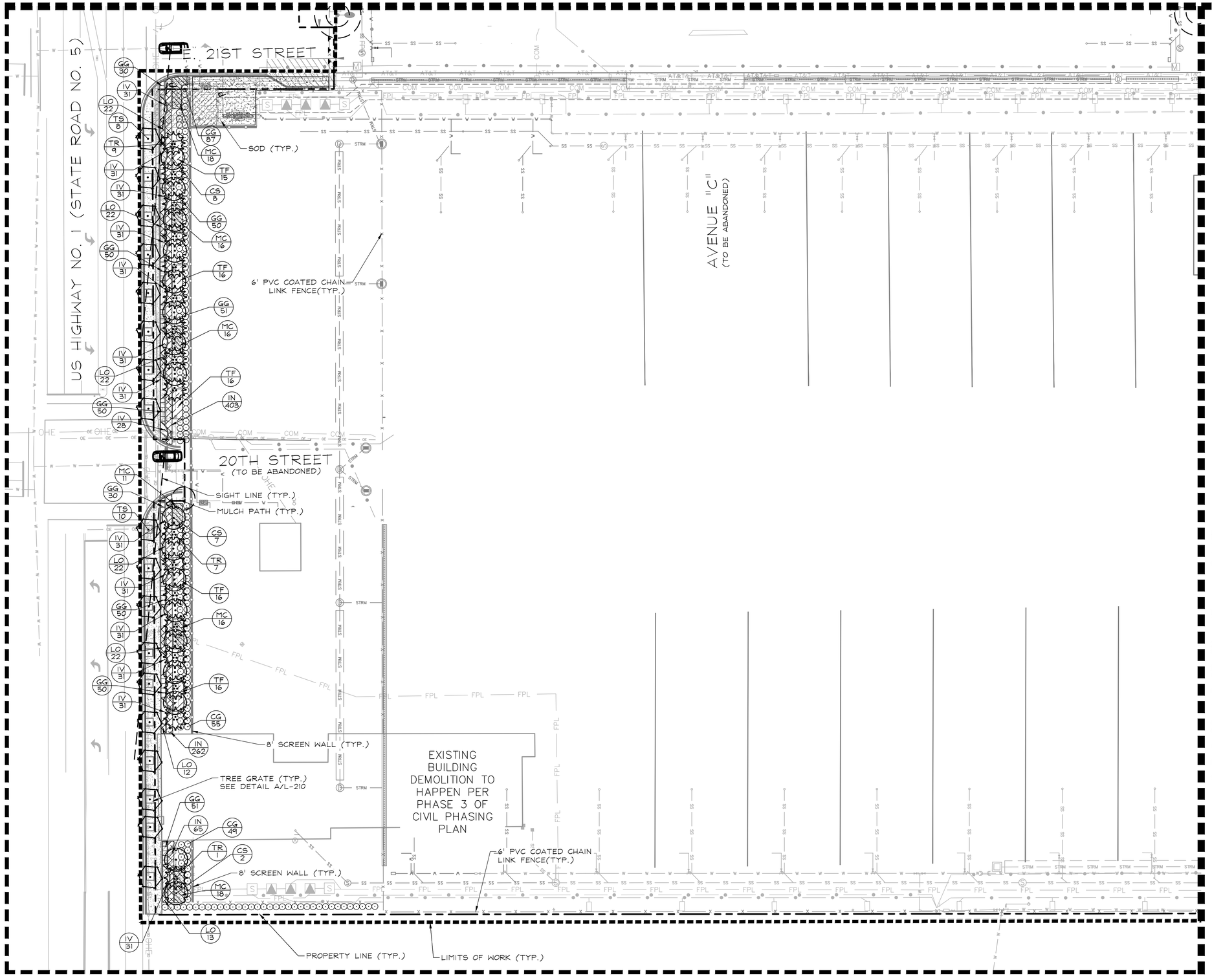
PHASE 1 LANDSCAPE PLAN

SAFE HARBOR
RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
L-202

Plotted By: Alexa, Kristen Sheet Set: SAFE HARBOR RIVIERA BEACH Layout: L-202 PHASE 1 LANDSCAPE PLAN May 08, 2023 05:28:07pm K:\WPB_Civil\145994004 - Safe Harbor Riviera Beach\CADD Files\Sheets\L-200 LANDSCAPE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

MATCHLINE – SEE SHEET L-201



NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

PHASE 1 U.S. HIGHWAY 1 BUFFER

TREES	COMMON NAME
CS	Silver Buttonwood 6' Clear Trunk
TS	Yellow Elder 7' Clear Trunk
PALM TREES	COMMON NAME
TR	Florida Thatch Palm Double Trunk
SHRUBS	COMMON NAME
CG	Small Leaf Clusia
SHRUB AREAS	COMMON NAME
IN	Dwarf Yaupon Holly
MC	Pink Muhly Grass
TF	Fakahatchee Grass
GROUND COVERS	COMMON NAME
GG	Blanketflower
IV	Blue Flag Iris
LO	Emerald Goddess Lilyturf
SOD	Floratam St. Augustine Grass

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

Kristen E. Alexa, PLA
Kimley-Horn
LA #6667555
2023.05.08 18:03:44-04'00'

KHA PROJECT 145994004
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

PHASE 1 LANDSCAPE PLAN

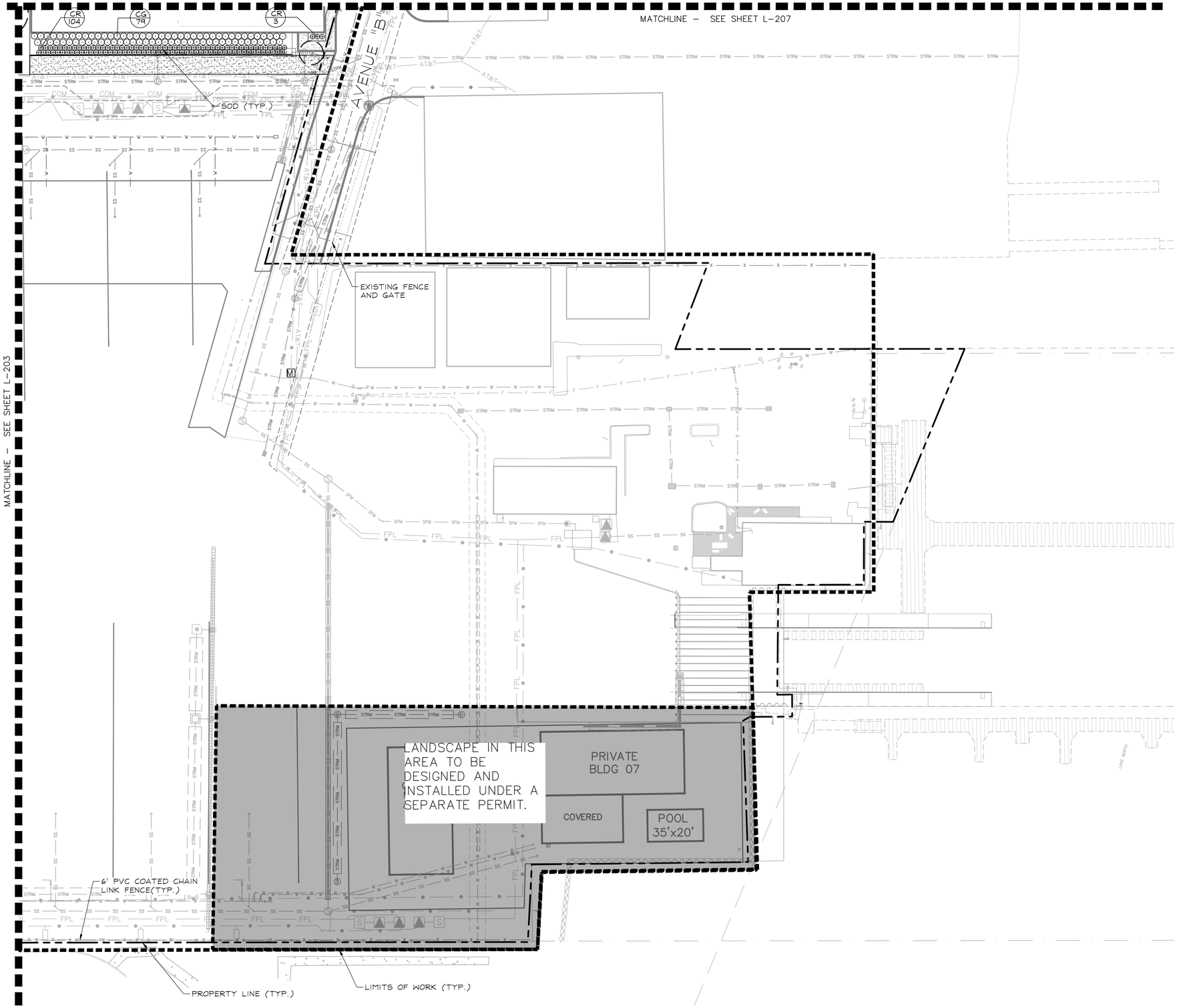
SAFE HARBOR RIVIERA BEACH

PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
L-203

Plotted By: Alexa, Kristen Sheet Set: SAFE HARBOR RIVIERA BEACH Layout: L-203 PHASE 1 LANDSCAPE PLAN May 08, 2023 05:29:03pm K:\BED_Civil\145994004 Safe Harbor Riviera Beach\CADD\PlanSheets\L-200 LANDSCAPE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

Plotted By:Alexa, Kristen Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:L-204 PHASE 1 LANDSCAPE PLAN May 08, 2023 05:30:44pm K:\BCD_Civil\145994004 - Safe Harbor Riviera Beach\CADD\PlanSheets\L-200 LANDSCAPE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adoption by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

PLANT SCHEDULE PHASE 1

TREES	COMMON NAME
CO	Orange Geiger Tree
CS	Silver Buttonwood 6' Clear Trunk
IC	Dahoon Holly 6' Clear Trunk
QV	Southern Live Oak 6' Clear Trunk
PALM TREES	**COMMON NAME**
SS	Cabbage Palmetto
TR	Florida Thatch Palm Double Trunk
SHRUBS	**COMMON NAME**
CG	Small Leaf Clusia
CR	Red Tip Cocoplum
SHRUB AREAS	**COMMON NAME**
FG	Green Island Ficus
IN	Dwarf Yaupon Holly
JJ	Wax Jasmine
MC	Pink Muhly Grass
SA	Green Schefflera
TF	Fakahatchee Grass
GROUND COVERS	**COMMON NAME**
AG	Perennial Peanut
HD	Beach Sunflower
SOD	Floratam St. Augustine Grass

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

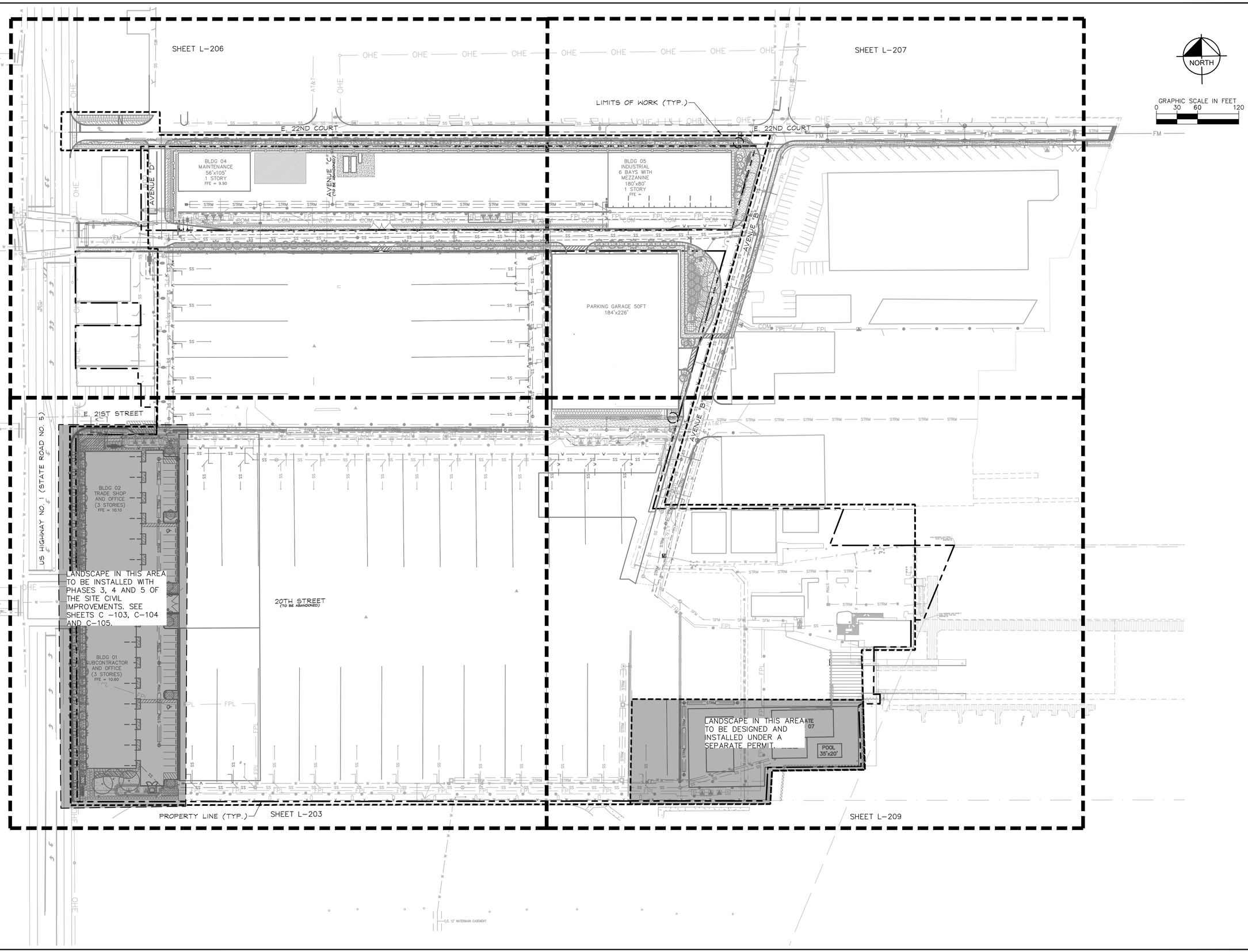
Kristen E. Alexa, PLA
Kimley-Horn
LA #6667555
2023.05.08 18:04:24-04'00'

KHA PROJECT	145994004
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	JPL
DRAWN BY	AMS
CHECKED BY	MDS

PHASE 1 LANDSCAPE PLAN

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
L-204



No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201,
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

Kristen E. Alexa, PLA
Kimley-Horn
LA #6667555
2023.05.08
18:05:25-04'00'

KHA PROJECT	145994004
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	JPL
DRAWN BY	AMS
CHECKED BY	MDS

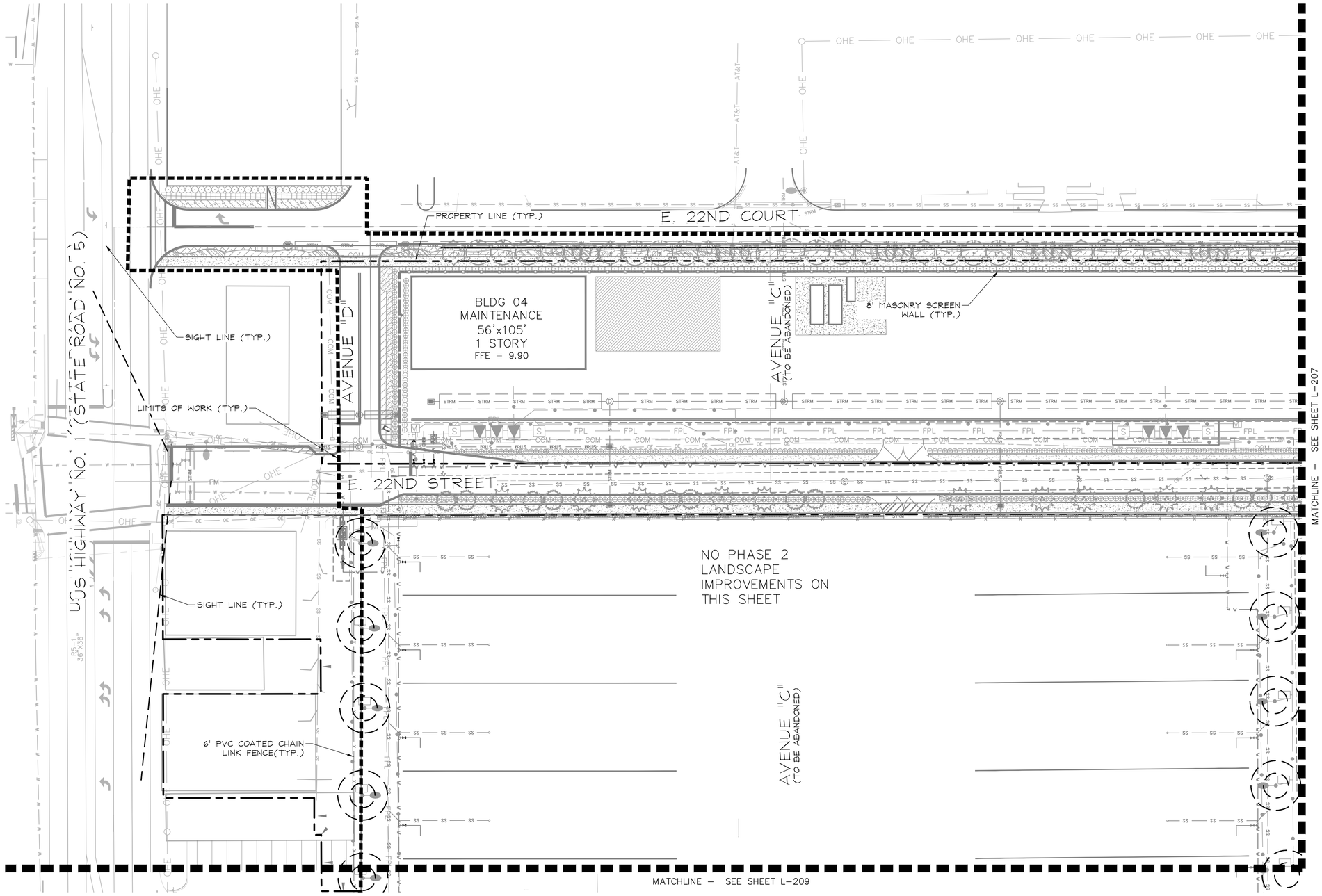
SAFE HARBOR RIVIERA BEACH

PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

PHASE 2 LANDSCAPE KEY MAP

SHEET NUMBER
L-205

Plotted By: Alexa, Kristen Sheet Set: SAFE HARBOR RIVIERA BEACH Layout: L-205 PHASE 2 LANDSCAPE KEY MAP May 08, 2023 05:50:15pm K:\BCD_Civil\145994004 - Safe Harbor Riviera Beach\CADD\PlanSheets\L-200 LANDSCAPE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



Kimley»Horn

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.

1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

No.	REVISIONS	DATE	BY

Kristen E. Alexa, PLA
Kimley-Horn
LA #6667555
2023.05.08 18:05:51-04'00'

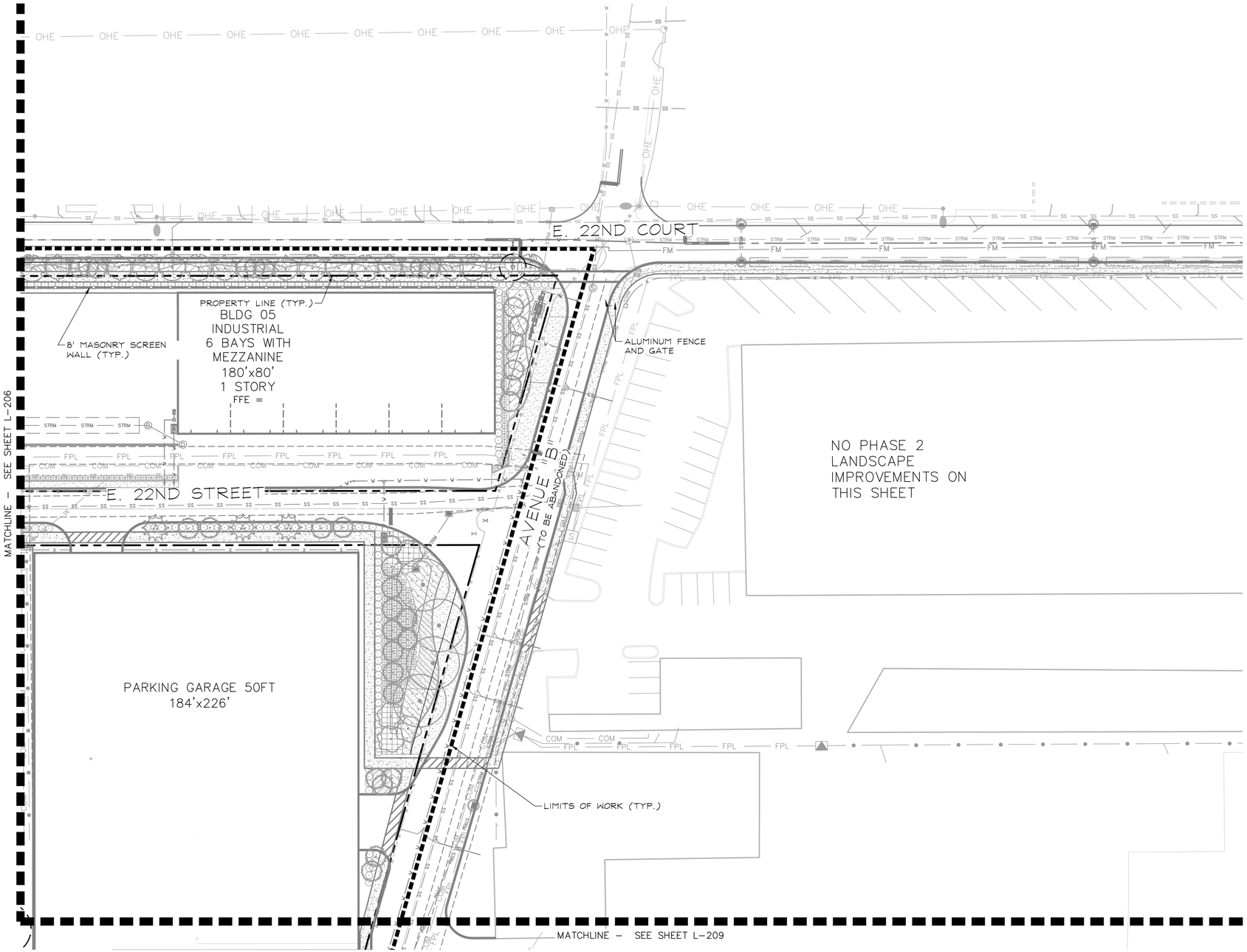
KHA PROJECT 145994004
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

PHASE 2 LANDSCAPE PLAN

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
L-206

Plotted By: Alexa, Kristen Sheet Set: SAFE HARBOR RIVIERA BEACH Layout: L-206 PHASE 2 LANDSCAPE PLAN May 08, 2023 05:51:33pm K:\WPB_Civil\145994004 – Safe Harbor Riviera Beach\CADD\PlanSheets\L-200 LANDSCAPE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

Kristen E. Alexa, PLA
Kimley-Horn
LA #6667555
2023.05.08 18:06:18-04'00'

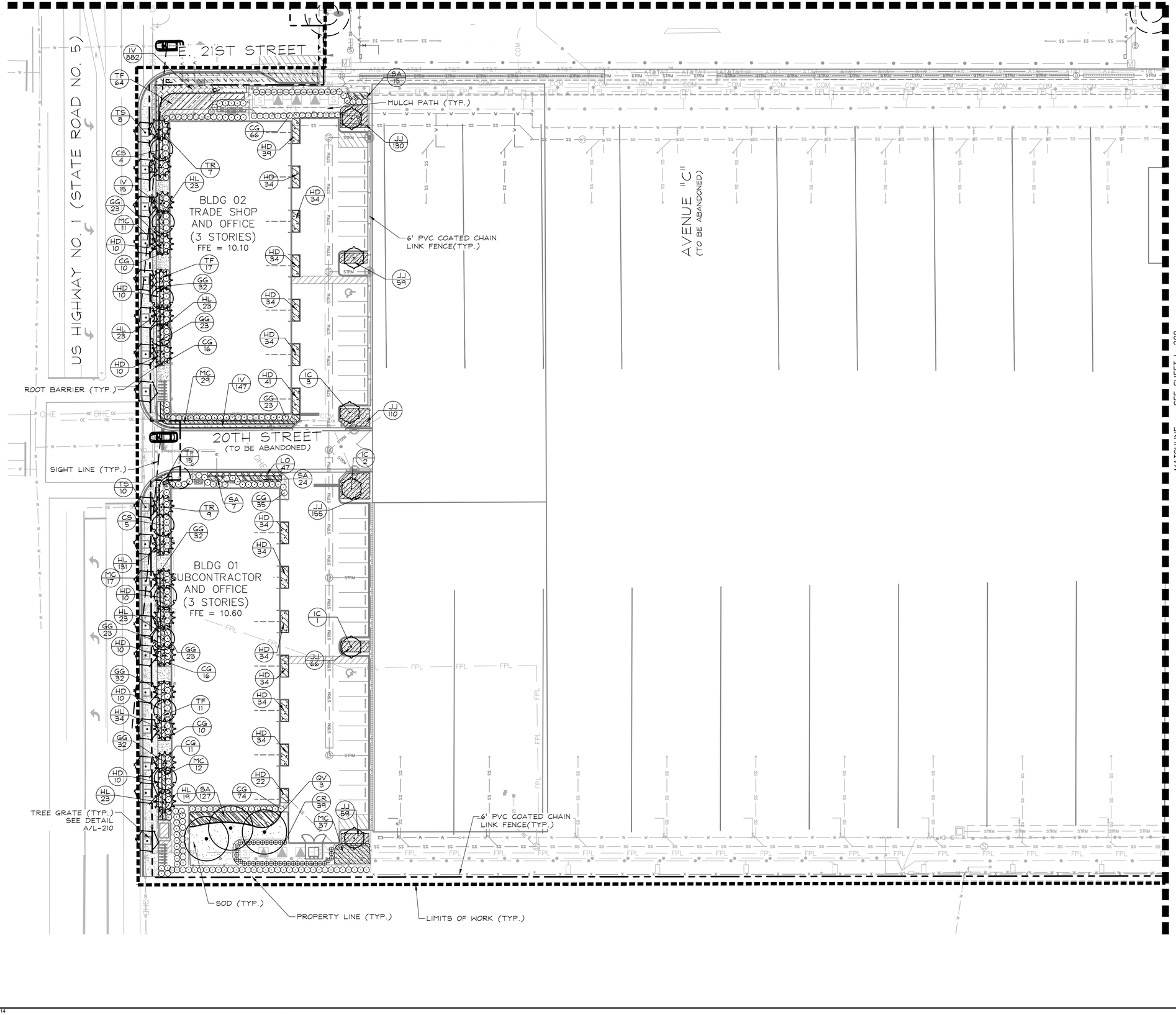
KHA PROJECT	145994004
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	JPL
DRAWN BY	AMS
CHECKED BY	MDS

PHASE 2 LANDSCAPE PLAN

SAFE HARBOR
RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
L-207

Plotted By: Alexa, Kristen Sheet Set: SAFE HARBOR RIVIERA BEACH Layout: L-207 PHASE 2 LANDSCAPE PLAN May 08, 2023 05:52:33pm K:\BED_Civil\145994004 – Safe Harbor Riviera Beach\CADD\PlanSheets\L-200 LANDSCAPE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adoption by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

PLANT SCHEDULE PHASE 2

TREES	COMMON NAME
CS	Silver Buttonwood 6' Clear Trunk
IC	Dahoon Holly 6' Clear Trunk
QV	Southern Live Oak 6' Clear Trunk
TS	Yellow Elder 7' Clear Trunk
PALM TREES	COMMON NAME
TR	Florida Thatch Palm Double Trunk
SHRUBS	COMMON NAME
CG	Small Leaf Clusia
CR	Red Tip Cocoplum
SHRUB AREAS	COMMON NAME
JJ	Wax Jasmine
MC	Pink Muhly Grass
SA	Green Schefflera
TF	Fakahatchee Grass
GROUND COVERS	COMMON NAME
GG	Blanketflower
HD	Beach Sunflower
HL	Spider Lily
IV	Blue Flag Iris
LO	Emerald Goddess Lilyturf
SOD	Floratam St. Augustine Grass

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

Kristen E. Alexa, PLA
Kimley-Horn
LA #6667555
2023.05.08 18:06:35-04'00'

KHA PROJECT 145994004
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

PHASE 2 LANDSCAPE PLAN

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
L-208

Plotted By: Alexa, Kristen Sheet Set: SAFE HARBOR RIVIERA BEACH Layout: L-208 PHASE 2 LANDSCAPE PLAN May 08, 2023 05:53:22pm K:\BRD_Civil\145994004 – Safe Harbor Riviera Beach\CADD\Plan Sheets\L-200 LANDSCAPE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adoption by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

MATCHLINE – SEE SHEET L-207

MATCHLINE – SEE SHEET L-208

AVENUE "B"

EXISTING FENCE AND GATE

NO PHASE 2 LANDSCAPE IMPROVEMENTS ON THIS SHEET

LANDSCAPE IN THIS AREA TO BE DESIGNED AND INSTALLED UNDER A SEPARATE PERMIT.

PRIVATE BLDG 07

COVERED

POOL 35'x20'

6' PVC COATED CHAIN LINK FENCE(TYP.)

PROPERTY LINE (TYP.)

LIMITS OF WORK (TYP.)

LAKE WORTH

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201,
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

Kristen E. Alexa, PLA
Kimley-Horn
LA #6667555
2023.05.08 18:06:53-04'00'

KHA PROJECT 145994004
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

PHASE 2 LANDSCAPE PLAN

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
L-209

Plotted By:Alexa, Kristen Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:L-209 PHASE 2 LANDSCAPE PLAN May 08, 2023 05:54:47pm K:\BED_Civil\145994004 – Safe Harbor Riviera Beach\CADD\PlanSheets\XL-200 LANDSCAPE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adoption by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

Plotted By: Alexa, Kristen Sheet Set: SAFE HARBOR RIVIERA BEACH Layout: L-210 LANDSCAPE PLAN May 08, 2023 05:39:17pm K:\BCD_Civil\145994004 — Safe Harbor Riviera Beach\CADD\PlanSheets\L-200 LANDSCAPE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

PLANT SCHEDULE PHASE 1

TREES	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE	NATIVE	QTY
CO	Cordia sebestena	Orange Geiger Tree	B & B	2" Cal.	12' HT x 5' SPR	Yes	6
CS	Conocarpus erectus sericeus 6' Clear Trunk	Silver Buttonwood	B & B	2" Cal.	12' HT x 5' SPR	Yes	27
IC	Ilex cassine 6' Clear Trunk	Dahoon Holly	B & B	2" Cal.	12' HT x 5' SPR	Yes	17
QV	Quercus virginiana 6' Clear Trunk	Southern Live Oak	B & B	6" Cal.	14' HT X 6' SPR	Yes	4
PALM TREES	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**CAL**	**SIZE**	**NATIVE**	**QTY**
SS	Sabal palmetto	Cabbage Palmetto	F.G.		12-18' CT	Yes	60
TR	Thrinax radiata Double Trunk	Florida Thatch Palm	F.G.		10' - 14' CT	Yes	14
SHRUBS	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**O.C.**	**SIZE**	**NATIVE**	**QTY**
CG	Clusia guttifera	Small Leaf Clusia	Cont.	48" O.C.	48" HT	No	421
CR	Chrysobalanus icaco 'Red Tip'	Red Tip Cocoplum	Cont.	36" O.C.	24"x24"	Yes	724
SHRUB AREAS	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**O.C.**	**SIZE**	**NATIVE**	**QTY**
FG	Ficus microcarpa 'Green Island'	Green Island Ficus	Cont.	24" O.C.	15"x15"	No	635
IN	Ilex vomitoria 'Nana'	Dwarf Yaupon Holly	Cont.	18" O.C.	15"x15"	Yes	496
JJ	Jasminum volubile	Wax Jasmine	Cont.	24" O.C.	24" x 24"	No	243
MC	Muhlenbergia capillaris	Pink Muhly Grass	Cont.	36" O.C.	18" HT	Yes	56
SA	Schefflera arboricola	Green Schefflera	Cont.	24" O.C.	18"x18"	No	354
TF	Tripsacum dactyloides	Fakahatchee Grass	Cont.	36" O.C.	18" HT	Yes	257
GROUND COVERS	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**O.C.**	**SIZE**	**NATIVE**	**QTY**
AG	Arachis glabrata	Perennial Peanut	Cont.	18"O.C.	12"x12"	Yes	122
HD	Helianthus debilis	Beach Sunflower	Cont.	18" O.C.	12"x12"	Yes	628
SOD	Stenotaphrum secundatum 'Floratam'	Floratam St. Augustine Grass	Sod				± 6,471 sf

PLANT SCHEDULE PHASE 1 U.S. HIGHWAY 1

TREES	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE	NATIVE	QTY
CS	Conocarpus erectus sericeus 6' Clear Trunk	Silver Buttonwood	B & B	2" Cal.	12' HT x 5' SPR	Yes	17
TS	Tecoma stans 7' Clear Trunk	Yellow Elder	B & B	2.5" Cal.	14' HT x 5' SPR	Yes	18
PALM TREES	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**CAL**	**SIZE**	**NATIVE**	**QTY**
TR	Thrinax radiata Double Trunk	Florida Thatch Palm	F.G.		10' - 14' CT	Yes	17
SHRUBS	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**O.C.**	**SIZE**	**NATIVE**	**QTY**
CG	Clusia guttifera	Small Leaf Clusia	Cont.	48" O.C.	48" HT	No	191
SHRUB AREAS	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**O.C.**	**SIZE**	**NATIVE**	**QTY**
IN	Ilex vomitoria 'Nana'	Dwarf Yaupon Holly	Cont.	18" O.C.	15"x15"	Yes	730
MC	Muhlenbergia capillaris	Pink Muhly Grass	Cont.	36" O.C.	18" HT	Yes	95
TF	Tripsacum dactyloides	Fakahatchee Grass	Cont.	36" O.C.	18" HT	Yes	79
GROUND COVERS	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**O.C.**	**SIZE**	**NATIVE**	**QTY**
GG	Gaillardia x grandiflora	Blanketflower	Cont.	12" O.C.	10"x10"	Yes	412
IV	Iris virginica	Blue Flag Iris	Cont.	15" O.C.	10"x10"	Yes	431
LO	Liriope muscari 'Emerald Goddess'	Emerald Goddess Lilyturf	Cont.	18" O.C.	15"x15"	No	135
SOD	Stenotaphrum secundatum 'Floratam'	Floratam St. Augustine Grass	Sod				± 1,689 sf

PLANTING NOTES:

1. CONTRACTOR SHALL REFER TO THE LANDSCAPE PLANTING DETAILS, PLANT LIST, GENERAL NOTES AND ALL CONTRACT DOCUMENTS FOR FURTHER AND COMPLETE INSTRUCTIONS.
2. PLANT LIST QUANTITIES ARE PROVIDED FOR CONVENIENCE. IN THE EVENT OF QUANTITY DISCREPANCIES THE DRAWING SHALL TAKE PRECEDENCE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO BIDDING.
3. PLANT SIZES LISTED ARE THE MINIMUM SIZE THAT WILL BE ACCEPTED FOR THAT PLANT.
4. ANY SUBSTITUTION IN SIZE AND/OR PLANT MATERIAL MUST BE APPROVED BY THE LANDSCAPE ARCHITECT IN WRITING. ALL PLANTS WILL BE SUBJECT TO APPROVAL BY LANDSCAPE ARCHITECT AND/OR OWNERS REPRESENTATIVE BEFORE PLANTING CAN BEGIN.
5. CONTRACTOR SHALL FIELD ADJUST LOCATION OF PLANT MATERIAL AS NECESSARY TO AVOID DAMAGE TO EXISTING UNDERGROUND UTILITIES AND/OR INTERFERE WITH EXISTING ABOVE GROUND ELEMENTS. ALL CHANGES REQUIRED SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE AND SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE AND THE LANDSCAPE ARCHITECT.
6. THE CONTRACTOR SHALL BEAR ALL COSTS OF TESTING OF SOILS, AMENDMENTS, ETC. ASSOCIATED WITH THE WORK AND INCLUDED IN THE SPECIFICATIONS.
7. CONTRACTOR SHALL FAMILIARIZE HIM/HERSELF WITH THE LIMITS OF WORK AND EXISTING CONDITIONS AND VERIFY ALL INFORMATION. IF DISCREPANCIES EXIST, CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE IN WRITING WITHIN SEVEN CALENDAR DAYS OF NOTICE TO PROCEED.
8. ALL NEW AND TRANSPLANTED PLANT MATERIAL SHALL BE IRRIGATED BY AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM.

A TREE GRATE

NTS

1. MANUFACTURER: IRON AGE DESIGNS ironagegrates.com
2. MODEL: RAIN 5'X5' HEEL PROOF
3. COLOR/FINISH: TO BE SELECTED BY OWNER/ ARCHITECT FROM MANUFACTURER FULL RANGE
4. INSTALL PER MANUFACTURER'S SPEC.
5. ESTIMATED QUANTITY: 18

PLANT SCHEDULE PHASE 2

TREES	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE	NATIVE	QTY
CS	Conocarpus erectus sericeus 6' Clear Trunk	Silver Buttonwood	B & B	2" Cal.	12' HT x 5' SPR	Yes	9
IC	Ilex cassine 6' Clear Trunk	Dahoon Holly	B & B	2" Cal.	12' HT x 5' SPR	Yes	6
QV	Quercus virginiana 6' Clear Trunk	Southern Live Oak	B & B	6" Cal.	14' HT X 6' SPR	Yes	3
TS	Tecoma stans 7' Clear Trunk	Yellow Elder	B & B	2.5" Cal.	14' HT x 5' SPR	Yes	18
PALM TREES	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**CAL**	**SIZE**	**NATIVE**	**QTY**
TR	Thrinax radiata Double Trunk	Florida Thatch Palm	F.G.		10' - 14' CT	Yes	16
SHRUBS	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**O.C.**	**SIZE**	**NATIVE**	**QTY**
CG	Clusia guttifera	Small Leaf Clusia	Cont.	48" O.C.	48" HT	No	261
CR	Chrysobalanus icaco 'Red Tip'	Red Tip Cocoplum	Cont.	36" O.C.	24"x24"	Yes	39
SHRUB AREAS	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**O.C.**	**SIZE**	**NATIVE**	**QTY**
JJ	Jasminum volubile	Wax Jasmine	Cont.	24" O.C.	24" x 24"	No	579
MC	Muhlenbergia capillaris	Pink Muhly Grass	Cont.	36" O.C.	18" HT	Yes	106
SA	Schefflera arboricola	Green Schefflera	Cont.	24" O.C.	18"x18"	No	187
TF	Tripsacum dactyloides	Fakahatchee Grass	Cont.	36" O.C.	18" HT	Yes	107
GROUND COVERS	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**O.C.**	**SIZE**	**NATIVE**	**QTY**
GG	Gaillardia x grandiflora	Blanketflower	Cont.	12" O.C.	10"x10"	Yes	220
HD	Helianthus debilis	Beach Sunflower	Cont.	18" O.C.	12"x12"	Yes	546
HL	Hymenocallis littoralis	Spider Lily	Cont.	12" O.C.	10" x 10"	Yes	299
IV	Iris virginica	Blue Flag Iris	Cont.	15" O.C.	10"x10"	Yes	1,044
LO	Liriope muscari 'Emerald Goddess'	Emerald Goddess Lilyturf	Cont.	18" O.C.	15"x15"	No	51
SOD	Stenotaphrum secundatum 'Floratam'	Floratam St. Augustine Grass	Sod				± 1,225 sf

CODE REQUIREMENTS: SAFE HARBOR RIVIERA BEACH

SITE AREA: IMPERVIOUS AREA:
ZONING: DOWNTOWN CORE/DOWNTOWN MARINE PERVIOUS AREA:

	REQUIRED	PROVIDED
SEC.29-65(c.)		
BROADWAY SHADE TREES ARE INSTALLED IN GRATES AND THE ADJACENT BUILDING SETBACKS AUGMENT THE SIDEWALK AREA TO ESTABLISH A SUPER PEDESTRIAN ENVIRONMENT.	YES	✓
DOWNTOWN MIXED USE STREET TREES ARE INSTALLED IN A PLANTING STRIP ADJACENT TO A CONTINUOUS SIDEWALK	YES	✓
DOWNTOWN RESIDENTIAL SHADE TREES ARE REGULARLY SPACED IN PLANTING STRIPS NEXT TO SIDEWALKS.	YES	✓
SEC.31-539(e.)		
1. STREET WALLS BE THREE FEET TO THREE FEET SIX INCHES IN HEIGHT. ONE SHADE TREE PER LINEAR FEET, UNIFORMLY SPACED, SHALL BE INSTALLED ALONG THE STREETWALL WITHIN A PLANTING AREA AT LEAST FIVE FEET WIDE.	YES	✓
2. ALONG SIDE AND REAR LOT LINES, A LANDSCAPE STRIP FIVE FEET IN WIDTH SHALL BE INSTALLED WITH TREES PLANTED AT LEAST 50 FEET ON CENTER. WHEN AN ALLEY IS NOT PRESENT, OPENINGS SHALL BE MADE TO ACCOMMODATE CURRENT OR FUTURE VEHICULAR CONNECTIONS BETWEEN ADJACENT PROPERTIES. LOTS WHICH INTERCONNECT THEIR PARKING TO ADJACENT LOTS MAY BE ADMINISTRATIVELY RELIEVED OF SIDE/REAR LANDSCAPE STRIPS IN ORDER TO MAXIMIZE THE PARKING SUPPLY BETWEEN THE PROPERTIES.	YES	✓
3. PARKING LOTS SHALL PROVIDE EITHER LANDSCAPE ISLANDS OR LANDSCAPE TRIPS AS SET FORTH BELOW: (A) ONE LANDSCAPE ISLAND AT LEAST SIX FEET IN WIDTH, EXTENDING THE ENTIRE DEPTH OF THE PARKING BAY AND CONTAINING AT LEAST ONE SHADE TREE SHALL BE PROVIDED FOR EVERY TEN PARKING STALLS; OR (B) A LANDSCAPE STRIP AT LEAST SIX FEET IN WIDTH CONTAINING AT LEAST ONE SHADE TREE FOR EVERY 50 LINEAR FEET SHALL BE PROVIDED BETWEEN PARKING ROWS.	YES	✓
SEC.31-608(c.)		
BUFFER LANDSCAPING (1)A BUFFER SETBACK WIDTH SHALL CONSIST OF LANDSCAPING TO INCLUDE A BUFFER SCREEN	YES	✓
(2)THE WIDTH OF A BUFFER SCREEN SHALL BE 25 PERCENT OF THE WIDTH OF THE REQUIRED BUFFER SETBACK WIDTH	YES	✓
SEC.31-265(6)		
50% OF ALL REQUIRED TREES SHALL CONSIST OF NATIVE SHADE TREE SPECIES.	50%	
PHASE 1: TREES/PALMS: 157 TREES/PALMS x 50% = 79 TREES SHRUBS/GC: 5,175 SHRUBS/GC x 50% = 2,588 SHRUBS/GC	79 TREES/PALMS 2,588 SHRUBS/GC	180 TREES/PALMS (100%) 3,611 SHRUBS/GC (70%)
PHASE 2: TREES/PALMS: 52 TREES/PALMS x 50% = 26 TREES SHRUBS/GC: 3,439 SHRUBS/GC x 50% = 1,720 SHRUBS/GC	26 TREES/PALMS 1,720 SHRUBS/GC	52 TREES/PALMS (100%) 2,361 SHRUBS/GC (69%)

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

Kristen E. Alexa, PLA
Kimley-Horn
LA #6667555
2023.05.08 18:07:23-04'00'

KHA PROJECT 145994004	DESIGNED BY JPL
DATE MAY 2023	DRAWN BY AMS
SCALE AS SHOWN	CHECKED BY MDS

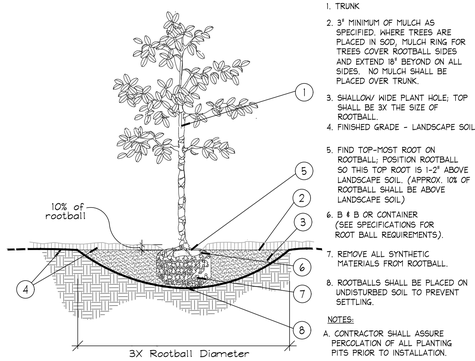
No.	REVISIONS	DATE	BY

LANDSCAPE PLAN

SAFE HARBOR RIVIERA BEACH

PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
L-210



1. TRUNK
2. 3" MINIMUM OF MULCH AS SPECIFIED. WHERE TREES ARE PLACED IN SOD, MULCH RING FOR TREES COVER ROOTBALL SIDES AND EXTEND 18" BEYOND ON ALL SIDES. NO MULCH SHALL BE PLACED OVER TRUNK.
3. SHALLOW WIDE PLANT HOLE; TOP SHALL BE 3X THE SIZE OF ROOTBALL.
4. FINISHED GRADE - LANDSCAPE SOIL
5. FIND TOP-MOST ROOT ON ROOTBALL; POSITION ROOTBALL SO THIS TOP ROOT IS 1-2" ABOVE LANDSCAPE SOIL. (APPROX. 10% OF ROOTBALL SHALL BE ABOVE LANDSCAPE SOIL)
6. B & B OR CONTAINER (SEE SPECIFICATIONS FOR ROOT BALL REQUIREMENTS).
7. REMOVE ALL SYNTHETIC MATERIALS FROM ROOTBALL.
8. ROOTBALLS SHALL BE PLACED ON UNDISTURBED SOIL TO PREVENT SETTLING.

NOTES:

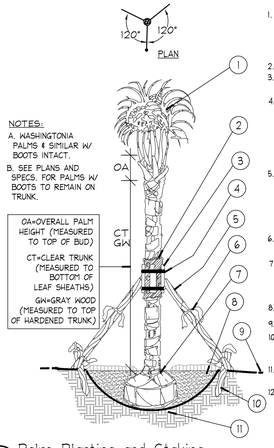
A. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.

B. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.

C. SEE PRE-APPROVED STAKING METHODS, THIS SHEET

* ALL TREES SHALL BE PLUMB VERTICALLY WITHIN A TOLERANCE OF THREE DEGREES, UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE.

A Tree Planting
SECTION — NTS



NOTES:

A. WASHINGTONIA PALMS & SIMILAR W/ BOOTS INTACT.

B. SEE PLANS AND SPECS. FOR PALMS W/ BOOTS TO REMAIN ON TRUNK.

OA=OVERALL PALM HEIGHT (MEASURED TO TOP OF BUD)

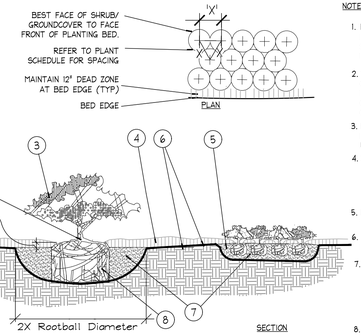
CT=CLEAR TRUNK (MEASURED TO BOTTOM OF LEAF SHEATHS)

GW=GRAY WOOD (MEASURED TO TOP OF HARDENED TRUNK)

1. MINIMUM OF NINE (9) GOOD PALM FRONDS; PRUNE AND TIE FRONDS WITH HEMP TWINE. SABAL PALMS TO BE SELECTIVELY "HURRICANE CUT", LEAVING ONLY NEWLY-EMERGING GROWTH.
2. 5 LAYERS OF BURLAP TO PROTECT TRUNK.
3. FIVE (5) 8'L, 2X4 WOOD BATTENS. UNTREATED, #2
4. SECURE BATTENS WITH TWO (2) 3/4" CARBON STEEL BANDS TO HOLD BATTENS IN PLACE. NO NAILS SHALL BE DRIVEN INTO PALM. HEIGHT OF BATTENS SHALL BE LOCATED PROPORTIONATELY TO THE HEIGHT OF THE PALM FOR ADEQUATE BRACING.
5. THREE (3) 8'L 2X4 SUPPORTS. NAIL (DRILL AND NAIL IF NECESSARY) TO BATTENS AND 2" X 4" STAKES. PALMS SHALL BE PLUMB VERTICALLY UNLESS OTHERWISE NOTED.
6. PROVIDE FLAGGING AT MIDPOINT AND BASE OF SUPPORTS.
7. TOP-MOST ROOT SHALL BE VISIBLE AT THE SURFACE OF THE ROOTBALL, SLIGHTLY ABOVE SURROUNDING GRADE.
8. 3" SPECIFIED MULCH
9. FINISH GRADE
10. 24"L (MIN.) 2X4 P.T. WOOD STAKES, NAIL TO SUPPORT POLES
11. PREPARED PLANTING SOIL AS SPECIFIED
12. ALTERNATE PALM ANCHORING SYSTEMS MAY BE SUBSTITUTED UPON APPROVAL BY OWNER OR OWNER'S REPRESENTATIVE

PRE-APPROVED SYSTEMS:
*BROOKS TREE BRACE SYSTEM
*ARBOR TIE TREE BRACING

B Palm Planting and Staking
SECTION — NTS

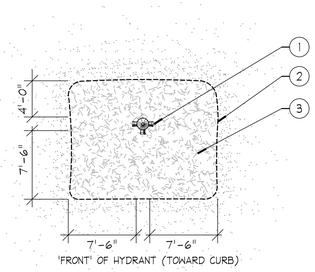


NOTES:

1. FIND POINT WHERE TOPMOST ROOT EMERGES FROM TRUNK WITHIN 2" OF SURFACE. CLEAR EXCESS SOIL IF NECESSARY.
2. TOP 10% OF SHRUB AND GROUNDCOVER ROOTBALLS TO BE PLANTED ABOVE THE LANDSCAPE GRADE. DO NOT COVER EXPOSED 10% ON SIDES WITH SOIL.
3. PRUNE ALL LIKE SHRUBS WITHIN A PLANTED MASS TO ACHIEVE A UNIFORM MASS/HEIGHT.
4. 3" MINIMUM MULCH AS SPECIFIED - DO NOT COVER ENTIRE SHRUB ROOTBALL OR CREATE WATER RINGS' ONLY COVER SIDES OF ROOTBALL WITH MULCH
5. EXCAVATE ENTIRE BED SPECIFIED FOR GROUNDCOVER BED.
6. FINISHED GRADE (SEE GRADING PLAN).
7. PREPARED PLANTING SOIL AS SPECIFIED. NOTE: WHEN GROUNDCOVERS AND SHRUBS USED IN MASSES, ENTIRE BED TO BE AMENDED WITH PLANTING SOIL MIX AS SPECIFIED.
8. SCARIFY ROOTBALL SIDES AND BOTTOM.

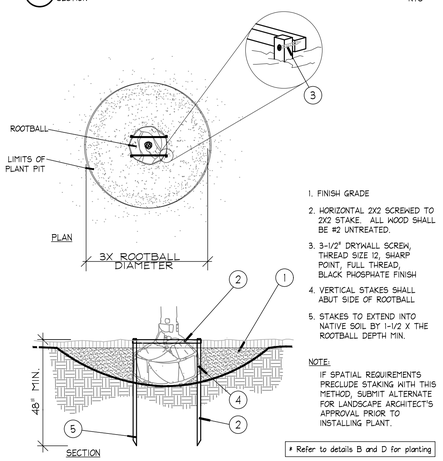
* ALL SHRUBS AND GROUNDCOVERS SHALL BE PLUMB VERTICALLY, UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE.

C Shrub / Groundcover Planting
PLAN/SECTION — NTS



1. FIRE HYDRANT
2. NO PLANT MATERIAL SHALL BE PLACED WITHIN SHOWN RADIUS OF ALL PROPOSED OR EXISTING FIRE HYDRANTS. CONTRACTOR SHALL ADJUST PLANT MATERIAL SO THAT NO CONFLICTS WITH FIRE HYDRANTS OCCUR ON SITE.
3. PROVIDE A MULCH, 3" DEPTH MIN., SURROUNDING AREA INDICATED.

D Fire Hydrant Clear Zone
PLAN — NTS



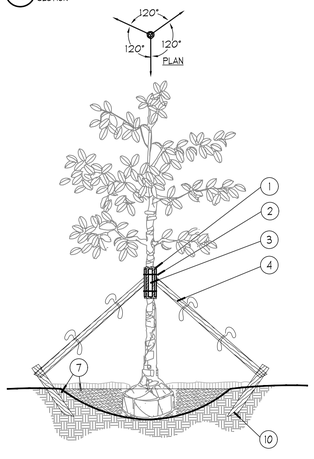
1. FINISH GRADE
2. HORIZONTAL 2X2 SCREWED TO 2X2 STAKE. ALL WOOD SHALL BE #2 UNTREATED.
3. 3-1/2" DRYWALL SCREW, THREAD SIZE 12, SHARP POINT, FULL THREAD, BLACK PHOSPHATE FINISH
4. VERTICAL STAKES SHALL ABUT SIDE OF ROOTBALL
5. STAKES TO EXTEND INTO NATIVE SOIL BY 1-1/2 X THE ROOTBALL DEPTH MIN.

NOTE:

IF SPATIAL REQUIREMENTS PRECLUDE STAKING WITH THIS METHOD, SUBMIT ALTERNATE FOR LANDSCAPE ARCHITECT'S APPROVAL PRIOR TO INSTALLING PLANT.

* Refer to details B and D for planting

E Staking - up to 65 gal. or B&B to 3-1/2" Cal.
PLAN/SECTION — NTS



1. FIVE (5) LAYERS OF BURLAP TO PROTECT TRUNK
2. TWO STEEL BANDS TO SECURE BATTENS
3. FIVE 2 X 4 X 18'L WOOD BATTENS
4. THREE (3) 2" X 8" LODGE POLES. DRILL, USING GALVANIZED SCREWS, TO BATTENS AND 2" X 4" STAKES. NO SCREWS SHALL PENETRATE TREE. FLAG AT MIDPOINT AND AT BASE.
10. 2" x 4" x 3' (MIN). P.T. WOOD STAKES BURIED 3" BELOW FINISHED GRADE.
7. FINISHED GRADE (SEE GRADING PLAN)

NOTES:

A. ALL TREES SHALL BE PLUMB VERTICALLY WITHIN A TOLERANCE OF THREE DEGREES, UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE.

B. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.

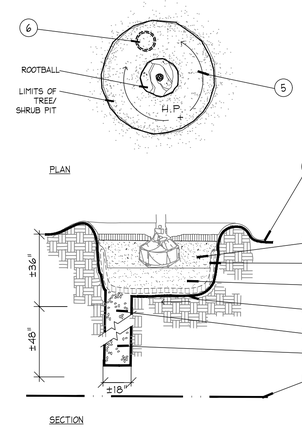
C. ALTERNATE TREE ANCHORING SYSTEMS MAY BE SUBSTITUTED FOR WOOD STAKING SYSTEM UPON APPROVAL BY OWNER OR OWNER'S REPRESENTATIVE

PRE-APPROVED SYSTEMS:
*BROOKS TREE BRACE SYSTEM
*ARBOR TIE TREE BRACING

D. RUBBER HOSE/WIRE SYSTEMS ARE NOT ALLOWED.

* Refer to details B and D for planting

F Large Tree Staking - 100 Gal + or B&B 4" +
SECTION — NTS



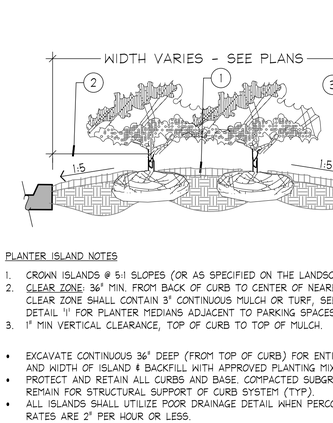
1. FINISH GRADE
2. BACKFILL WITH PREPARED PLANTING SOIL MIX AS SPECIFIED.
3. FILTER CLOTH, MIRAFI 500X OR BETTER
4. 12" CLEAN SAND, COMPACTED. ADJUST LAYER THICKNESS SO TOP OF ROOTBALL IS AT LEAST 1" ABOVE FINISHED GRADE.
5. SLOPE BOTTOM TO DRAIN
6. ±18"ø AUGURED HOLE PENETRATE THROUGH OCCLUDING LAYER TO WATER TABLE OR TO A DEPTH OF 7' TO ASSURE PROPER PERCOLATION.
7. BACKFILL WITH 1/2" - 3/4" GRAVEL.
8. WATER TABLE. (DEPTH VARIES)

NOTE:

FOR A PARKING ISLAND PLANTING SITUATION, CONTRACTOR TO BACKFILL ENTIRE LENGTH OF PLANTING AREA TO WITHIN 6" OF BACK OF CURB OR EDGE OF PAVEMENT.

REFER TO NOTE 6.3 OF WRITTEN SPECIFICATIONS FOR ADDITIONAL INFORMATION.

G Poor Drainage Condition
PLAN/SECTION — NTS

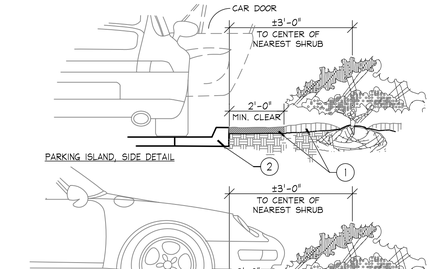


PLANTER ISLAND NOTES

1. CROWN ISLANDS @ 5:1 SLOPES (OR AS SPECIFIED ON THE LANDSCAPE PLANS).
2. CLEAR ZONE: 36" MIN. FROM BACK OF CURB TO CENTER OF NEAREST SHRUB. CLEAR ZONE SHALL CONTAIN 3" CONTINUOUS MULCH OR TURF, SEE PLANS. SEE DETAIL 'I' FOR PLANTER MEDIANS ADJACENT TO PARKING SPACES.
3. 1" MIN VERTICAL CLEARANCE, TOP OF CURB TO TOP OF MULCH.

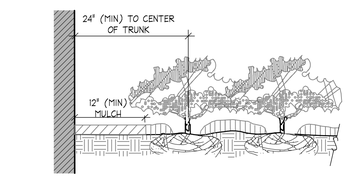
- EXCAVATE CONTINUOUS 36" DEEP (FROM TOP OF CURB) FOR ENTIRE LENGTH AND WIDTH OF ISLAND & BACKFILL WITH APPROVED PLANTING MIX.
- PROTECT AND RETAIN ALL CURBS AND BASE. COMPACTED SUBGRADE TO REMAIN FOR STRUCTURAL SUPPORT OF CURB SYSTEM (TYP).
- ALL ISLANDS SHALL UTILIZE POOR DRAINAGE DETAIL WHEN PERCOLATION RATES ARE 2" PER HOUR OR LESS.

H Planted Parking Lot Islands / Medians
SECTION — NTS



1. INSTALL CONTINUOUS MULCH BED ADJACENT TO PARKING SPACES AS SHOWN. MULCH SHALL BE MIN. 3" DEEP.
   NO POP-UP IRRIGATION HEADS SHALL BE LOCATED WITHIN 24" OF A PARKING SPACE ON ANY SIDE
2. CURB OR PARKING LOT EDGE, BY OTHERS

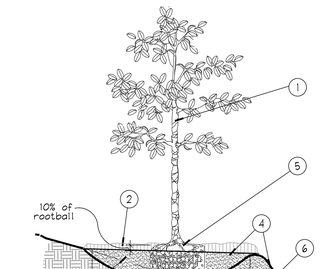
I Parking Space/Curb Planting
SECTION — NTS



NOTES

* CLEAR ZONE: 24" MIN. FROM BUILDING TO CENTER OF NEAREST SHRUB.

J Plantings Adjacent to Buildings
SECTION — NTS



1. TREES, PALMS, AND LARGE SHRUBS (15 GAL OR GREATER) SHALL BE PLANTED IN SIMILAR MANNER
2. 3" MINIMUM OF MULCH AS SPECIFIED. WHERE TREES ARE PLACED IN SOD, MULCH RING FOR TREES COVER ROOTBALL SIDES AND EXTEND 18" BEYOND ON ALL SIDES. NO MULCH SHALL BE PLACED OVER TRUNK.
3. SHALLOW WIDE PLANT HOLE; TOP SHALL BE 3X THE SIZE OF ROOTBALL.
4. FINISHED GRADE - LANDSCAPE SOIL
5. FIND TOP-MOST ROOT ON ROOTBALL; POSITION ROOTBALL SO THIS TOP ROOT IS 1-2" ABOVE LANDSCAPE SOIL. (APPROX. 10% OF ROOTBALL SHALL BE ABOVE LANDSCAPE SOIL)
6. BERM SOIL SO THAT TOP OF BERM IS JUST BELOW THE TOP 10% OF THE TOP OF THE ROOTBALL. SLOPE DOWNHILL PORTION OF BERM AS REQUIRED TO MEET EXISTING GRADE.
7. B & B OR CONTAINER REMOVE ALL SYNTHETIC MATERIALS FROM ROOTBALL. (SEE SPECIFICATIONS FOR OTHER ROOT BALL REQUIREMENTS)
8. ROOTBALLS SHALL BE PLACED ON UNDISTURBED SOIL TO PREVENT SETTLING.

NOTES:

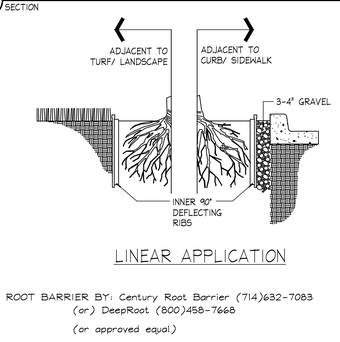
A. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.

B. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.

C. SEE PRE-APPROVED STAKING METHODS, THIS SHEET

* ALL TREES SHALL BE PLUMB VERTICALLY WITHIN A TOLERANCE OF THREE DEGREES, UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE.

K Planting on a Slope
SECTION — NTS



LINEAR APPLICATION

ROOT BARRIER BY: Century Root Barrier (714)632-7083
(or) DeepRoot (800)458-7668
(or approved equal)

SIZE: 36" D
MATERIAL: POLYETHYLENE WITH ULTRAVIOLET INHIBITORS
THICKNESS: .085 IN. (min.)

NOTES:

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. INSTALL AS REQUIRED, PER PLAN NOTES.
3. SUBMIT PRODUCT DATA FOR APPROVAL.

L Root Barrier
Barrier Detail — NTS

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED LANDSCAPE ARCHITECT
Kristen E. Alexa, PLA
Kimley-Horn
LA #6667555
2023.05.08 18:07:44-04'00'

KHA PROJECT 145994004	DESIGNED BY JPL
DATE MAY 2023	DRAWN BY AMS
SCALE AS SHOWN	CHECKED BY MDS

LANDSCAPE DETAILS

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
L-211

Plotted By: Alexa, Kristen Sheet Set: SAFE HARBOR RIVIERA BEACH Layout: L-211 LANDSCAPE DETAILS May 08, 2023 05:14:54pm K:\BED_Civil\145994004 - Safe Harbor Riviera Beach\CADD\PlanSheets\L-210 LANDSCAPE DETAILS.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

GENERAL LANDSCAPE SPECIFICATIONS AND NOTES

A. SCOPE OF WORK

1. THE WORK CONSISTS OF: FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT AS SHOWN ON THE DRAWINGS, AS INCLUDED IN THE PLANT LIST, AND AS HEREIN SPECIFIED.
2. WORK SHALL INCLUDE MAINTENANCE AND WATERING OF ALL CONTRACT PLANTING AREAS UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER.

B. PROTECTION OF EXISTING STRUCTURES

ALL EXISTING BUILDINGS, WALKS, WALLS, PAVING, PIPING, OTHER SITE CONSTRUCTION ITEMS, AND PLANTING ALREADY COMPLETED OR ESTABLISHED SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. ALL DAMAGE RESULTING FROM NEGLIGENCE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER, AT NO COST TO THE OWNER.

C. PROTECTION OF EXISTING PLANT MATERIALS OUTSIDE LIMIT OF WORK

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNAUTHORIZED CUTTING OR DAMAGE TO TREES AND SHRUBS EXISTING OR OTHERWISE, CAUSED BY CARELESS EQUIPMENT OPERATION, MATERIAL STOCKPILING, ETC. THIS SHALL INCLUDE COMPACTION BY DRIVING OR PARKING INSIDE THE DRIP-LINE AND SPILLING OIL, GASOLINE, OR OTHER DELETERIOUS MATERIALS WITHIN THE DRIP-LINE. NO MATERIALS SHALL BE BURNED WHERE HEAT WILL DAMAGE ANY PLANT. EXISTING TREES KILLED OR DAMAGED SO THAT THEY ARE MISSHAPEN AND/ OR UNSIGHTLY SHALL BE REPLACED AT THE COST TO THE CONTRACTOR OF ONE HUNDRED DOLLARS ($100) PER CALIPER INCH ON AN ESCALATING SCALE WHICH ADDS AN ADDITIONAL TWENTY (20) PERCENT PER INCH OVER FOUR (4) INCHES CALIPER AS FIXED AND AGREED LIQUIDATED DAMAGES. CALIPER SHALL BE MEASURED SIX (6) INCHES ABOVE GROUND LEVEL FOR TREES UP TO AND INCLUDING FOUR (4) INCHES IN CALIPER AND TWELVE (12) INCHES ABOVE GROUND LEVEL FOR TREES OVER FOUR (4) INCHES IN CALIPER.

D. MATERIALS

1. GENERAL

MATERIALS LISTED BELOW SHALL BE SUBMITTED FOR APPROVAL. UPON SUBMITTALS' APPROVAL, DELIVERY OF MATERIALS MAY COMMENCE.

MATERIAL	SUBMITTAL
MULCH	PRODUCT DATA
TOPSOIL MIX	AMENDMENT MIX/ PRODUCT DATA/ TEST RESULTS
PLANTS	PHOTOGRAPHS OF ONE (1) OF EACH SPECIES (OR TAGGED IN NURSERY) CLIENT-REQUESTED TAGGING MAY SUBSTITUTE PHOTOS. INDICATE SIZES (HEIGHT/WIDTH) AND QUALITY PER SPEC.
FERTILIZER	PRODUCT DATA
INNOCULANT	PRODUCT DATA
HERBICIDE	PRODUCT DATA
STAKING/GUYING	FOR ALTERNATE TO DETAILS: SEND PRODUCT DATA, DETAIL

2. PLANT MATERIALS

A. PLANT SPECIES AND SIZE SHALL CONFORM TO THOSE INDICATED ON THE DRAWINGS. NOMENCLATURE SHALL CONFORM TO STANDARDIZED PLANT NAMES, 1942 EDITION. ALL NURSERY STOCK SHALL BE IN ACCORDANCE WITH GRADES AND STANDARDS FOR NURSERY PLANTS, LATEST EDITION, PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. ALL PLANTS SHALL BE FLORIDA GRADE NO. 1 OR BETTER AS DETERMINED BY THE FLORIDA DIVISION OF PLANT INDUSTRY. ALL PLANTS SHALL BE HEALTHY, VIGOROUS, SOUND, WELL-BRANCHED, AND FREE OF DISEASE AND INSECTS, INSECT EGGS AND LARVAE AND SHALL HAVE ADEQUATE ROOT SYSTEMS. TREES FOR PLANTING IN ROWS SHALL BE UNIFORM IN SIZE AND SHAPE. ALL MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE OWNER. WHERE ANY REQUIREMENTS ARE OMITTED FROM THE PLANT LIST, THE PLANTS FURNISHED SHALL BE NORMAL FOR THE VARIETY. PLANTS SHALL BE PRUNED PRIOR TO DELIVERY ONLY WITH APPROVAL FROM OWNER OR OWNER'S REPRESENTATIVE. NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN PERMISSION FROM THE OWNER'S REPRESENTATIVE

B. MEASUREMENTS: THE HEIGHT AND/OR WIDTH OF TREES SHALL BE MEASURED FROM THE GROUND OR ACROSS THE NORMAL SPREAD OF BRANCHES WITH THE PLANTS IN THEIR NORMAL POSITION. THIS MEASUREMENT SHALL NOT INCLUDE THE IMMEDIATE TERMINAL GROWTH. PLANTS LARGER IN SIZE THAN THOSE SPECIFIED IN THE PLANT LIST MAY BE USED IF APPROVED BY THE OWNER. IF THE USE OF LARGER PLANTS IS APPROVED, THE BALL OF EARTH OR SPREAD OF ROOTS SHALL BE INCREASED IN PROPORTION TO THE SIZE OF THE PLANT.

C. INSPECTION: PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH, OR UPON DELIVERY TO THE SITE, AS DETERMINED BY THE OWNER, FOR QUALITY, SIZE, AND VARIETY; SUCH APPROVAL SHALL NOT IMPAIR THE RIGHT OF INSPECTION AND REJECTION AT THE SITE DURING PROGRESS OF THE WORK OR AFTER COMPLETION FOR SIZE AND CONDITION OF ROOT BALLS OR ROOTS, LATENT DEFECTS OR INJURIES. REJECTED PLANTS SHALL BE REMOVED IMMEDIATELY FROM THE SITE. NOTICE REQUESTING INSPECTION SHALL BE SUBMITTED IN WRITING BY THE CONTRACTOR AT LEAST ONE (1) WEEK PRIOR TO ANTICIPATED DATE.

E. SOIL MIXTURE (PLANTING MEDIUM, PLANTING MIX, TOPSOIL MIX)

1. SOIL MIXTURE (PLANTING MEDIUM FOR PLANT PITS) SHALL CONSIST OF 20% CLEAN FLORIDA MUCK AND 80% PARTS CLEAN SAND. IT SHALL CONTAIN THREE (3) TO FIVE (5) PERCENT DECOMPOSED ORGANIC MATTER AND A PH BETWEEN 5.5 AND 7.0 - SUBMIT SAMPLE AND PH TESTING RESULTS FOR APPROVAL.
2. MUCK (OR MUCKY PEAT) FOR USE IN PREPARING SOIL MIXTURE FOR BACKFILLING PLANT PITS SHALL BE FERTILE, AND OF A VERY HIGH ORGANIC CONTENT DERIVED FROM FLORIDA SOURCES; REASONABLY FREE OF SUBSOIL, CLAY LUMPS, BRUSH WEEDS AND OTHER LITTER; FREE OF ROOTS, STUMPS, STONES LARGER THAN 2" IN ANY DIRECTION, AND OTHER EXTRANEOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH.
3. SAND FOR USE IN PREPARING SOIL MIXTURE SHALL BE COARSE, CLEAN, WELL-DRAINING, NATIVE SAND. CONTRACTOR SHALL SUBMIT RESULTS OF SOIL TESTS FOR TOPSOIL AND SAND PROPOSED FOR USE UNDER THIS CONTRACT FOR APPROVAL BY THE OWNER.
4. TREES SHALL BE PLANTED IN THE EXISTING NATIVE SOIL ON SITE, UNLESS DETERMINED TO BE UNSUITABLE - AT WHICH POINT THE CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT TO DISCUSS ALTERNATE RECOMMENDATION PRIOR TO PLANTING.
5. CONTRACTOR TO SUBMIT SAMPLES OF SOIL MIXTURE FOR OWNER'S REPRESENTATIVE APPROVAL PRIOR TO PLANT INSTALLATION OPERATIONS COMMENCE.

F. WATER

WATER NECESSARY FOR PLANTING AND MAINTENANCE SHALL BE OF SATISFACTORY QUALITY TO SUSTAIN AN ADEQUATE PLANT GROWTH AND SHALL NOT CONTAIN HARMFUL, NATURAL OR MAN-MADE ELEMENTS DETRIMENTAL TO PLANTS. WATER MEETING THE ABOVE STANDARD SHALL BE OBTAINED ON THE SITE FROM THE OWNER, IF AVAILABLE, AND THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ARRANGEMENTS FOR ITS USE BY HIS TANKS, HOSES, SPRINKLERS, ETC.. IF SUCH WATER IS NOT AVAILABLE AT THE SITE, THE CONTRACTOR SHALL PROVIDE SATISFACTORY WATER FROM SOURCES OFF THE SITE AT NO ADDITIONAL COST TO THE OWNER.

*WATERING/IRRIGATION RESTRICTIONS MAY APPLY - REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.

G. FERTILIZER

CONTRACTOR SHALL PROVIDE FERTILIZER APPLICATION SCHEDULE TO OWNER, AS APPLICABLE TO SOIL TYPE, PLANT INSTALLATION TYPE, AND SITE'S PROPOSED USE. SUGGESTED FERTILIZER TYPES SHALL BE ORGANIC OR OTHERWISE NATURALLY-DERIVED.

*FERTILIZER RESTRICTIONS MAY APPLY - REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.

H. MULCH

MULCH MATERIAL SHALL BE MOISTENED AT THE TIME OF APPLICATION TO PREVENT WIND DISPLACEMENT, AND APPLIED AT A MINIMUM DEPTH OF 3 INCHES. CLEAR MULCH FROM EACH PLANT'S CROWN (BASE). TYPE OF MATERIAL: "FLORIMULCH" OR SHREDDED, STERILE EUCALYPTUS MULCH

I. DIGGING AND HANDLING

1. PROTECT ROOTS OR ROOT BALLS OF PLANTS AT ALL TIMES FROM SUN, DRYING WINDS, WATER AND FREEZING, AS NECESSARY UNTIL PLANTING. PLANT MATERIALS SHALL BE ADEQUATELY PACKED TO PREVENT DAMAGE DURING TRANSIT. TREES TRANSPORTED MORE THAN TEN (10) MILES OR WHICH ARE NOT PLANTED WITHIN THREE (3) DAYS OF DELIVERY TO SITE SHALL BE SPRAYED WITH AN ANTITRANSPIRANT PRODUCT ("WILTPRUF" OR EQUAL) TO MINIMIZE TRANSPIRATIONAL WATER LOSS.
2. BALLED AND BURLAPPED PLANTS (B&B) SHALL BE DUG WITH FIRM, NATURAL BALLS OF SOIL OF SUFFICIENT SIZE TO ENCOMPASS THE FIBROUS AND FEEDING ROOTS OF THE PLANTS. NO PLANTS MOVED WITH A ROOT BALL SHALL BE PLANTED IF THE BALL IS CRACKED OR BROKEN. PLANTS BALLED AND BURLAPPED OR CONTAINER GROWN SHALL NOT BE HANDLED BY STEMS.
3. PLANTS MARKED "BR" IN THE PLANT LIST SHALL BE DUG WITH BARE ROOTS, COMPLYING WITH FLORIDA GRADES AND STANDARDS FOR NURSERY PLANTS, CURRENT EDITION. CARE SHALL BE EXERCISED THAT THE ROOTS DO NOT DRY OUT DURING TRANSPORTATION AND PRIOR TO PLANTING.
4. PROTECTION OF PALMS (IF APPLICABLE): ONLY A MINIMUM OF FRONDS SHALL BE REMOVED FROM THE CROWN OF THE PALM TREES TO FACILITATE MOVING AND HANDLING. CLEAR TRUNK (CT) SHALL BE AS SPECIFIED AFTER THE MINIMUM OF FRONDS HAVE BEEN REMOVED. ALL PALMS SHALL BE BRACED PER PALM PLANTING DETAIL.
5. EXCAVATION OF TREE PITS SHALL BE PERFORMED USING EXTREME CARE TO AVOID DAMAGE TO SURFACE AND SUBSURFACE ELEMENTS SUCH AS UTILITIES OR HARDSCAPE ELEMENTS, FOOTERS AND PREPARED SUB- BASES.

J. CONTAINER GROWN STOCK

1. ALL CONTAINER GROWN MATERIAL SHALL BE HEALTHY, VIGOROUS, WELL-ROOTED PLANTS ESTABLISHED IN THE CONTAINER IN WHICH THEY ARE SOLD. THE PLANTS SHALL HAVE TOPS WHICH ARE OF GOOD QUALITY AND ARE IN A HEALTHY GROWING CONDITION, FLORIDA #1 OR BETTER.
2. AN ESTABLISHED CONTAINER GROWN PLANT SHALL BE TRANSPLANTED INTO A CONTAINER AND GROWN IN THAT CONTAINER SUFFICIENTLY LONG FOR THE NEW FIBROUS ROOTS TO HAVE DEVELOPED SO THAT THE ROOT MASS WILL RETAIN ITS SHAPE AND HOLD TOGETHER WHEN REMOVED FROM THE CONTAINER. CONTAINER GROWN STOCK SHALL NOT BE HANDLED BY THEIR STEMS.
3. PLANT ROOTS BOUND IN CONTAINERS ARE NOT ACCEPTABLE.
4. SUBSTITUTION OF NON-CONTAINER GROWN MATERIAL FOR MATERIAL EXPLICITLY SPECIFIED TO BE CONTAINER GROWN WILL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL IS OBTAINED FROM THE OWNER OR OWNER'S REPRESENTATIVE.

K. COLLECTED STOCK

WHEN THE USE OF COLLECTED STOCK IS PERMITTED AS INDICATED BY THE OWNER OR OWNER'S REPRESENTATIVE, THE MINIMUM SIZES OF ROOTBALLS SHALL BE EQUAL TO THAT SPECIFIED FOR THE NEXT LARGER SIZE OF NURSERY GROWN STOCK OF THE SAME VARIETY.

L. NATIVE STOCK

PLANTS COLLECTED FROM WILD OR NATIVE STANDS SHALL BE CONSIDERED NURSERY GROWN WHEN THEY HAVE BEEN SUCCESSFULLY RE-ESTABLISHED IN A NURSERY ROW AND GROWN UNDER REGULAR NURSERY CULTURAL PRACTICES FOR A MINIMUM OF TWO (2) GROWING SEASONS AND HAVE ATTAINED ADEQUATE ROOT AND TOP GROWTH TO INDICATE FULL RECOVERY FROM TRANSPLANTING INTO THE NURSERY ROW.

M. MATERIALS LIST

QUANTITIES NECESSARY TO COMPLETE THE WORK ON THE DRAWINGS SHALL BE FURNISHED BY THE CONTRACTOR. QUANTITY ESTIMATES HAVE BEEN MADE CAREFULLY, BUT THE LANDSCAPE ARCHITECT OR OWNER ASSUMES NO LIABILITY FOR OMISSIONS OR ERRORS. SHOULD A DISCREPANCY OCCUR BETWEEN THE PLANS AND THE PLANT LIST QUANTITY, THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION PRIOR TO BIDDING OR INSTALLATION. ALL DIMENSIONS AND/OR SIZES SPECIFIED SHALL BE THE MINIMUM ACCEPTABLE SIZE

N. FINE GRADING

1. FINE GRADING UNDER THIS CONTRACT SHALL CONSIST OF FINAL FINISHED GRADING OF LAWN AND PLANTING AREAS THAT HAVE BEEN ROUGH GRADED BY OTHERS. BERMING AS SHOWN ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL FINE GRADE THE LAWN AND PLANTING AREAS TO BRING THE ROUGH GRADE UP TO FINAL FINISHED GRADE ALLOWING FOR THICKNESS OF SOD AND/OR MULCH DEPTH. THIS CONTRACTOR SHALL FINE GRADE BY HAND AND/OR WITH ALL EQUIPMENT NECESSARY INCLUDING A GRADING TRACTOR WITH FRONT-END LOADER FOR TRANSPORTING SOIL WITHIN THE SITE.
3. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED FOR POSITIVE DRAINAGE TO SURFACE/SUBSURFACE STORM DRAIN SYSTEMS. AREAS ADJACENT TO BUILDINGS SHALL SLOPE AWAY FROM THE BUILDINGS. REFER TO CIVIL ENGINEER'S PLANS FOR FINAL GRADES.

O. PLANTING PROCEDURES

1. CLEANING UP BEFORE COMMENCING WORK: THE CONTRACTOR SHALL CLEAN WORK AND SURROUNDING AREAS OF ALL RUBBISH OR OBJECTIONABLE MATTER. ALL MORTAR, CEMENT, AND TOXIC MATERIAL SHALL BE REMOVED FROM THE SURFACE OF ALL PLANT BEDS. THESE MATERIALS SHALL NOT BE MIXED WITH THE SOIL. SHOULD THE CONTRACTOR FIND SUCH SOIL CONDITIONS BENEATH THE SOIL WHICH WILL IN ANY WAY ADVERSELY AFFECT THE PLANT GROWTH, HE SHALL IMMEDIATELY CALL IT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. FAILURE TO DO SO BEFORE PLANTING SHALL MAKE THE CORRECTIVE MEASURES THE RESPONSIBILITY OF THE CONTRACTOR.
2. VERIFY LOCATIONS OF ALL UTILITIES, CONDUITS, SUPPLY LINES AND CABLES, INCLUDING BUT NOT LIMITED TO: ELECTRIC, GAS (LINES AND TANKS), WATER, SANITARY SEWER, STORMWATER SYSTEMS, CABLE, AND TELEPHONE. PROPERLY MAINTAIN AND PROTECT EXISTING UTILITIES. CALL NATIONAL ONE CALL - 811 - TO LOCATE UTILITIES.
3. SUBGRADE EXCAVATION: CONTRACTOR IS RESPONSIBLE TO REMOVE ALL EXISTING AND IMPORTED LIMEROCK AND LIMEROCK SUB-BASE FROM ALL LANDSCAPE PLANTING AREAS TO A MINIMUM DEPTH OF 36". CONTRACTOR IS RESPONSIBLE TO BACKFILL THESE PLANTING AREAS TO ROUGH FINISHED GRADE WITH CLEAN TOPSOIL FROM AN ON-SITE SOURCE OR AN IMPORTED SOURCE. IF LIMEROCK OR OTHER ADVERSE CONDITIONS OCCUR IN PLANTED AREAS AFTER 36" DEEP EXCAVATION BY THE CONTRACTOR, AND ADEQUATE PERCOLATION CAN NOT BE ACHIEVED, CONTRACTOR SHALL UTILIZE PLANTING DETAIL THAT ADDRESSES POOR DRAINAGE.
4. FURNISH NURSERY'S CERTIFICATE OF COMPLIANCE WITH ALL REQUIREMENTS AS HEREIN SPECIFIED AND REQUIRED. INSPECT AND SELECT PLANT MATERIALS BEFORE PLANTS ARE DUG AT NURSERY OR GROWING SITE.
5. GENERAL: COMPLY WITH APPLICABLE FEDERAL, STATE, COUNTY, AND LOCAL REGULATIONS GOVERNING LANDSCAPE MATERIALS AND WORK. CONFORM TO ACCEPTED HORTICULTURAL PRACTICES AS USED IN THE TRADE. UPON ARRIVAL AT THE SITE , PLANTS SHALL BE THOROUGHLY WATERED AND PROPERLY MAINTAINED UNTIL PLANTED. PLANTS STORED ON-SITE SHALL NOT REMAIN UNPLANTED FOR A PERIOD EXCEEDING TWENTY-FOUR (24) HOURS. AT ALL TIMES, METHODS CUSTOMARY IN GOOD HORTICULTURAL PRACTICES SHALL BE EXERCISED.
6. THE WORK SHALL BE COORDINATED WITH OTHER TRADES TO PREVENT CONFLICTS. COORDINATE PLANTING WITH IRRIGATION WORK TO ASSURE AVAILABILITY OF WATER AND PROPER LOCATION OF IRRIGATION APPURTENANCES AND PLANTS.
7. ALL PLANTING PITS SHALL BE EXCAVATED TO SIZE AND DEPTH IN ACCORDANCE WITH THE USA STANDARD FOR NURSERY STOCK Z60.1, UNLESS SHOWN OTHERWISE ON THE DRAWINGS, AND BACKFILLED WITH THE PREPARED PLANTING SOIL MIXTURE AS SPECIFIED IN SECTION E. TEST ALL TREE PITS WITH WATER BEFORE PLANTING TO ASSURE PROPER DRAINAGE PERCOLATION IS AVAILABLE. NO ALLOWANCE WILL BE MADE FOR LOST PLANTS DUE TO IMPROPER PERCOLATION. IF POOR PERCOLATION EXISTS, UTILIZE "POOR DRAINAGE CONDITION" PLANTING DETAIL. TREES SHALL BE SET PLUMB AND HELD IN POSITION UNTIL THE PLANTING MIXTURE HAS BEEN FLUSHED INTO PLACE WITH A SLOW, FULL HOSE STREAM. ALL PLANTING SHALL BE PERFORMED BY PERSONNEL FAMILIAR WITH PLANTING PROCEDURES AND UNDER THE SUPERVISION OF A QUALIFIED LANDSCAPE FOREMAN. PROPER "JETTING IN" SHALL BE ASSURED TO ELIMINATE AIR POCKETS AROUND THE ROOTS. "JET STICK" OR EQUAL IS RECOMMENDED.
8. TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO BUILDINGS AND BUILDING STRUCTURES WHILE INSTALLING TREES.
9. SOIL MIXTURE SHALL BE AS SPECIFIED IN SECTION E OF THESE SPECIFICATIONS.
10. TREES AND SHRUBS SHALL BE SET STRAIGHT AT AN ELEVATION THAT, AFTER SETTLEMENT, THE PLANT CROWN WILL STAND ONE (1) TO TWO (2) INCHES ABOVE GRADE. EACH PLANT SHALL BE SET IN THE CENTER OF THE PIT. PLANTING SOIL MIXTURE SHALL BE BACKFILLED, THOROUGHLY TAMPED AROUND THE BALL, AND SETTLED BY WATER (AFTER TAMPING).
11. AMEND PINE AND OAK PLANT PITS WITH ECTOMYCORRHIZAL SOIL APPLICATION PER MANUFACTURER'S RECOMMENDATION. ALL OTHER PLANT PITS SHALL BE AMENDED WITH ENDOMYCORRHIZAL SOIL APPLICATION PER MANUFACTURER'S RECOMMENDATION. PROVIDE PRODUCT INFORMATION SUBMITTAL PRIOR TO INOCULATION.
12. FILL HOLE WITH SOIL MIXTURE, MAKING CERTAIN ALL SOIL IS SATURATED. TO DO THIS, FILL HOLE WITH WATER AND ALLOW TO SOAK MINIMUM TWENTY (20) MINUTES, STIRRING IF NECESSARY TO GET SOIL THOROUGHLY WET. PACK LIGHTLY WITH FEET. ADD MORE WET SOIL MIXTURE. DO NOT COVER TOP OF BALL WITH SOIL MIXTURE, ONLY WITH MULCH. ALL BURLAP, ROPE, WIRES, BASKETS, ETC.., SHALL BE REMOVED FROM THE SIDES AND TOPS OF BALLS, BUT NO BURLAP SHALL BE PULLED FROM UNDERNEATH.
13. PRUNING: TREES SHALL BE PRUNED, AT THE DIRECTION OF THE OWNER OR OWNER'S REPRESENTATIVE, TO PRESERVE THE NATURAL CHARACTER OF THE PLANT. ALL SOFT WOOD OR SUCKER GROWTH AND ALL BROKEN OR BADLY DAMAGED BRANCHES SHALL BE REMOVED WITH A CLEAN CUT. ALL PRUNING TO BE PERFORMED BY LICENSED ARBORIST, IN ACCORDANCE WITH ANSI A-300.
14. SHRUBS AND GROUND COVER PLANTS SHALL BE EVENLY SPACED IN ACCORDANCE WITH THE DRAWINGS AND AS INDICATED ON THE PLANT LIST. CULTIVATE ALL PLANTING AREAS TO A MINIMUM DEPTH OF 6", REMOVE AND DISPOSE ALL DEBRIS. MIX TOP 4" TO ACHEIVE SOIL MIXTURE AS SPECIFIED IN SECTION E. THOROUGHLY WATER ALL PLANTS AFTER INSTALLATION.
15. TREE GUYING AND BRACING SHALL BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE PLANS TO INSURE STABILITY AND MAINTAIN TREES IN AN UPRIGHT POSITION. IF THE CONTRACTOR AND OWNER DECIDE TO WAIVE THE TREE GUYING AND BRACING, THE OWNER SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING AND AGREE TO INDEMNIFY AND HOLD HARMLESS THE LANDSCAPE ARCHITECT IN THE EVENT UNSUPPORTED TREES PLANTED UNDER THIS CONTRACT FALL AND DAMAGE PERSON OR PROPERTY.
16. MULCHING: PROVIDE A THREE INCH (MINIMUM) LAYER OF SPECIFIED MULCH OVER THE ENTIRE AREA OF EACH SHRUB BED, GROUND COVER, VINE BED, AND TREE PIT PLANTED UNDER THIS CONTRACT.
17. HERBICIDE WEED CONTROL: ALL PLANT BEDS SHALL BE KEPT FREE OF NOXIOUS WEEDS UNTIL FINAL ACCEPTANCE OF WORK. IF DIRECTED BY THE OWNER, "ROUND-UP" SHALL BE APPLIED FOR WEED CONTROL BY QUALIFIED PERSONNEL TO ALL PLANTING AREAS IN SPOT APPLICATIONS PER MANUFACTURER'S PRECAUTIONS AND SPECIFICATIONS. PRIOR TO FINAL INSPECTION, TREAT ALL PLANTING BEDS WITH AN APPROVED PRE-EMERGENT HERBICIDE AT AN APPLICATION RATE RECOMMENDED BY THE MANUFACTURER. (AS ALLOWED BY JURISDICTIONAL AUTHORITY)

P. LAWN SODDING

1. THE WORK CONSISTS OF LAWN BED PREPARATION, SOIL PREPARATION, AND SODDING COMPLETE, IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND THE APPLICABLE DRAWINGS TO PRODUCE A TURF GRASS LAWN ACCEPTABLE TO THE OWNER.
2. LAWN BED PREPARATION: ALL AREAS THAT ARE TO BE SODDED SHALL BE CLEARED OF ANY ROUGH GRASS, WEEDS, AND DEBRIS, AND THE GROUND BROUGHT TO AN EVEN GRADE. THE ENTIRE SURFACE SHALL BE ROLLED WITH A ROLLER WEIGHING NOT MORE THAN ONE-HUNDRED (100) POUNDS PER FOOT OF WIDTH. DURING THE ROLLING, ALL DEPRESSIONS CAUSED BY SETTLEMENT SHALL BE FILLED WITH ADDITIONAL SOIL, AND THE SURFACE SHALL BE REGRADED AND ROLLED UNTIL PRESENTING A SMOOTH AND EVEN FINISH TO THE REQUIRED GRADE.
3. SOIL PREPARATION: PREPARE LOOSE BED FOUR (4) INCHES DEEP. HAND RAKE UNTIL ALL BUMPS AND DEPRESSIONS ARE REMOVED. WET PREPARED AREA THOROUGHLY.
4. SODDING
   A. THE CONTRACTOR SHALL SOD ALL AREAS THAT ARE NOT PAVED OR PLANTED AS DESIGNATED ON THE DRAWINGS WITHIN THE CONTRACT LIMITS, UNLESS SPECIFICALLY NOTED OTHERWISE.
   B. THE SOD SHALL BE CERTIFIED TO MEET FLORIDA STATE PLANT BOARD SPECIFICATIONS, ABSOLUTELY TRUE TO VARIETAL TYPE, AND FREE FROM WEEDS, FUNGUS, INSECTS AND DISEASE OF ANY KIND.
   C. SOD PANELS SHALL BE LAID TIGHTLY TOGETHER SO AS TO MAKE A SOLID SODDED LAWN AREA. SOD SHALL BE LAID UNIFORMLY AGAINST THE EDGES OF ALL CURBS AND OTHER HARDSCAPE ELEMENTS, PAVED AND PLANTED AREAS. ADJACENT TO BUILDINGS, A 24 INCH STONE MULCH STRIP SHALL BE PROVIDED - REFER TO DETAILS. IMMEDIATELY FOLLOWING SOD LAYING, THE LAWN AREAS SHALL BE ROLLED WITH A LAWN ROLLER CUSTOMARILY USED FOR SUCH PURPOSES, AND THEN THOROUGHLY IRRIGATED. IF, IN THE OPINION OF THE OWNER, TOP-DRESSING IS NECESSARY AFTER ROLLING TO FILL THE VOIDS BETWEEN THE SOD PANELS AND TO EVEN OUT INCONSISTENCIES IN THE SOD, CLEAN SAND, AS APPROVED BY THE OWNER'S REPRESENTATIVE, SHALL BE UNIFORMLY SPREAD OVER THE ENTIRE SURFACE OF THE SOD AND THOROUGHLY WATERED IN. FERTILIZE INSTALLED SOD AS ALLOWED BY PROPERTY'S JURISDICTIONAL AUTHORITY.
5. DURING DELIVERY, PRIOR TO, AND DURING THE PLANTING OF THE LAWN AREAS, THE SOD PANELS SHALL AT ALL TIMES BE PROTECTED FROM EXCESSIVE DRYING AND UNNECESSARY EXPOSURE OF THE ROOTS TO THE SUN. ALL SOD SHALL BE STACKED SO AS NOT TO BE DAMAGED BY SWEATING OR EXCESSIVE HEAT AND MOISTURE.
6. LAWN MAINTENANCE:
   A. WITHIN THE CONTRACT LIMITS, THE CONTRACTOR SHALL PRODUCE A DENSE, WELL ESTABLISHED LAWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RE-SODDING OF ALL ERODED, SUNKEN OR BARE SPOTS (LARGER THAN 12"X12") UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER'S REPRESENTATIVE. REPAIRED SODDING SHALL BE ACCOMPLISHED AS IN THE ORIGINAL WORK (INCLUDING REGRADING IF NECESSARY).
   B. CONTRACTOR RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SOD/LAWN UNTIL ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. PRIOR TO AND UPON ACCEPTANCE, CONTRACTOR TO PROVIDE WATERING/IRRIGATION SCHEDULE TO OWNER. OBSERVE ALL APPLICABLE WATERING RESTRICTIONS AS SET FORTH BY THE PROPERTY'S JURISDICTIONAL AUTHORITY.

Q. CLEANUP

UPON COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM HIS WORK. ALL PAVED AREAS SHALL BE BROOM-CLEANED AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.

R. PLANT MATERIAL MAINTENANCE

ALL PLANTS AND PLANTING INCLUDED UNDER THIS CONTRACT SHALL BE MAINTAINED BY WATERING, CULTIVATING, SPRAYING, AND ALL OTHER OPERATIONS (SUCH AS RE-STAKING OR REPAIRING GUY SUPPORTS) NECESSARY TO INSURE A HEALTHY PLANT CONDITION BY THE CONTRACTOR UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER'S REPRESENTATIVE. MAINTENANCE AFTER THE CERTIFICATION OF ACCEPTABILITY SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS IN THIS SECTION. CONTRACTORS ARE REQUESTED TO PROVIDE A BID ESTIMATE TO COVER LANDSCAPE AND IRRIGATION MAINTENANCE FOR A PERIOD OF 90 CALENDAR DAYS COMMENCING AFTER ACCEPTANCE.

S. MAINTENANCE (ALTERNATE BID ITEM)

CONTRACTORS ARE REQUESTED TO PROVIDE A BID ESTIMATE FOR MAINTENANCE FOLLOWING THE INITIAL 90-DAY MAINTENANCE PERIOD ON A COST-PER-MONTH BASIS.

T. FINAL INSPECTION AND ACCEPTANCE OF WORK

FINAL INSPECTION AT THE END OF THE WARRANTY PERIOD SHALL BE ON PLANTING, CONSTRUCTION AND ALL OTHER INCIDENTAL WORK PERTAINING TO THIS CONTRACT. ANY REPLACEMENT AT THIS TIME SHALL BE SUBJECT TO THE SAME ONE (1) YEAR WARRANTY (OR AS SPECIFIED BY THE LANDSCAPE ARCHITECT OR OWNER IN WRITING) BEGINNING WITH THE TIME OF REPLACEMENT AND ENDING WITH THE SAME INSPECTION AND ACCEPTANCE HEREIN DESCRIBED.

U. WARRANTY

1. THE LIFE AND SATISFACTORY CONDITION OF ALL 7 GALLON AND LARGER PLANT MATERIAL INSTALLED BY THE LANDSCAPE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTABILITY BY THE OWNER'S REPRESENTATIVE.
2. THE LIFE AND SATISFACTORY CONDITION OF ALL OTHER PLANT MATERIAL (INCLUDING SOD) INSTALLED BY THE LANDSCAPE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTABILITY BY THE OWNER'S REPRESENTATIVE.
3. REPLACEMENT: ANY PLANT NOT FOUND IN A HEALTHY GROWING CONDITION AT THE END OF THE WARRANTY PERIOD SHALL BE REMOVED FROM THE SITE AND REPLACED AS SOON AS WEATHER CONDITIONS PERMIT. ALL REPLACEMENTS SHALL BE PLANTS OF THE SAME KIND AND SIZE AS SPECIFIED IN THE PLANT LIST. THEY SHALL BE FURNISHED PLANTED AND MULCHED AS SPECIFIED UNDER "PLANTING", AT NO ADDITIONAL COST TO THE OWNER.
4. IN THE EVENT THE OWNER DOES NOT CONTRACT WITH THE CONTRACTOR FOR LANDSCAPE (AND IRRIGATION) MAINTENANCE, THE CONTRACTOR IS ENCOURAGED TO VISIT THE PROJECT SITE PERIODICALLY DURING THE ONE YEAR WARRANTY PERIOD TO EVALUATE MAINTENANCE PROCEDURES BEING PERFORMED BY THE OWNER, AND SHALL NOTIFY THE OWNER IN WRITING OF MAINTENANCE PROCEDURES OR CONDITIONS WHICH THREATEN VIGOROUS AND HEALTHY PLANT GROWTH. IT IS SUGGESTED SUCH SITE VISITS SHALL BE CONDUCTED A MINIMUM OF ONCE PER MONTH FOR A PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF ACCEPTANCE.

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

Kristen E. Alexa, PLA
Kimley-Horn
LA #6667555
2023.05.08 18:08:03-04'00

SITE PLAN

FOR

SAFE HARBOR RIVIERA BEACH

2010 AVENUE B

RIVIERA BEACH, FLORIDA

SECTION 28, TOWNSHIP 42-S, RANGE 43-E

FEBRUARY 2023

PROJECT TEAM:

OWNER
SAFE HARBOR MARINAS
4200 NORTH FLAGER DRIVE
WEST PALM BEACH, FLORIDA 33407
561-840-8167
CONTACT: TIM SARGENT

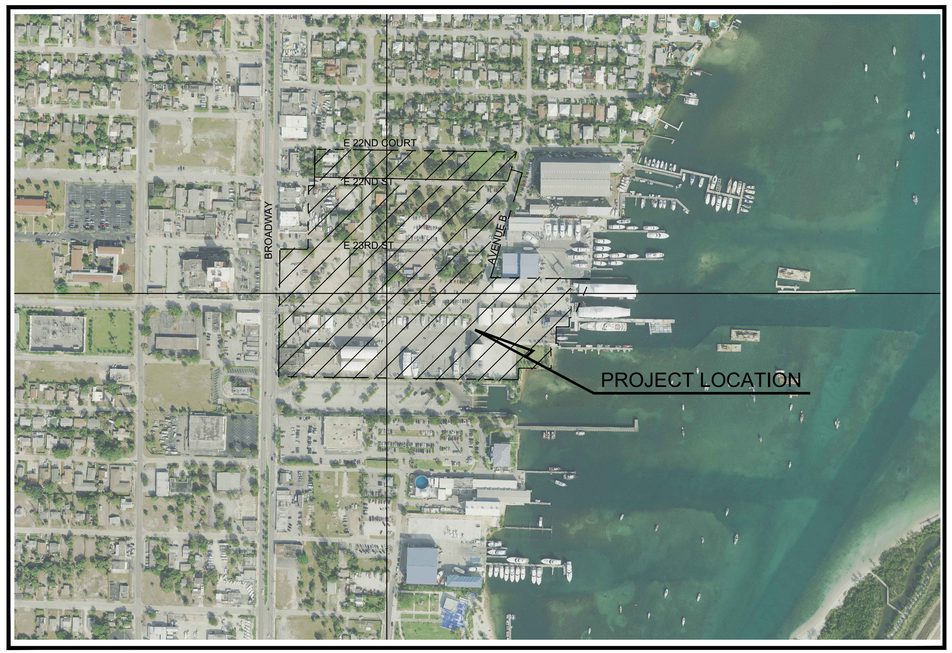
CIVIL ENGINEER
KIMLEY-HORN AND ASSOCIATES, INC.
REGISTRY 35106
1615 S. CONGRESS AVENUE, SUITE 201
DELRAY BEACH, FLORIDA 33445
561-330-2545
CONTACT: MICHAEL D. SPRUCE, P.E.

SURVEYOR
GCY, INC.
1505 SW MARTIN HIGHWAY
PALM CITY, FLORIDA 34991
772-286-8083
CONTACT: PETER ANDERSEN, PSM

PLANNER
KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVENUE, SUITE 201
DELRAY BEACH, FLORIDA 33445
561-484-5257
CONTACT: LIAM SARGENT

LANDSCAPE ARCHITECT
KIMLEY-HORN AND ASSOCIATES, INC.
1920 WEKIVA WAY
WEST PALM BEACH, FLORIDA 33411
561-840-0223
CONTACT: KRISTEN ALEXA, P.L.A.

ARCHITECT
SONG + ASSOCIATES, INC.
1545 CENTERPARK DR. N
WEST PALM BEACH, FL 33401
561-655-2423
CONTACT: YOUN LEE, LEED AP



LOCATION MAP

GRAPHIC SCALE IN FEET
0 150 300 600

NORTH

Kimley»Horn

© 2022 KIMLEY-HORN AND ASSOCIATES, INC.

1615 S. CONGRESS AVENUE, SUITE 201
DELRAY BEACH, FLORIDA 33445
PHONE: 561-330-2545

FEMA FLOOD MAP: 12099C0393F
FLOOD ZONE X
100 YEAR FLOOD ELEVATION 6.00 NAVD 1988

PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.52' = (NGVD 1929)

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

Always call 811 two full business days before you dig to have underground utilities located and marked.

Sunshine811.com

Sheet List Table

Sheet Number	Sheet Title
C-000	COVER SHEET
C-001	GENERAL NOTES
C-002	GENERAL NOTES
P-100	SITE PLAN
P-101	OFFSITE IMPROVEMENT PLAN
P-110	REGULATING PLAN
P-111	REGULATING PLAN DETAILS
P-112	REGULATING PLAN DETAILS
P-113	REGULATING PLAN DETAILS
C-100	PHASE 1 MAP
C-101	PHASE 2 MAP
C-102	PHASE 3 MAP
C-103	PHASE 4 MAP
C-110	KEY MAP
C-200	DEMOLITION PLAN
C-201	DEMOLITION PLAN
C-202	DEMOLITION PLAN
C-203	DEMOLITION PLAN
C-500	GRADING AND DRAINAGE PLAN
C-501	GRADING AND DRAINAGE PLAN
C-502	GRADING AND DRAINAGE PLAN
C-503	GRADING AND DRAINAGE PLAN
C-504	GRADING AND DRAINAGE PLAN
C-510	GRADING AND DRAINAGE DETAILS
C-600	UTILITY PLAN
C-601	UTILITY PLAN
C-602	UTILITY PLAN
C-603	UTILITY PLAN
C-610	UTILITY DETAILS
C-611	UTILITY DETAILS
C-612	UTILITY DETAILS
C-620	FIRE HYDRANT PLAN
C-700	PAVING PLAN
C-702	PAVING DETAILS
EXH-01	POST DEVELOPMENT AREA PLAN
EXH-02	AUTOTURN PLAN – CAR TRAFFIC ROUTING
EXH-03	AUTOTURN PLAN – TRUCK TRAFFIC ROUTING – IN
EXH-04	AUTOTURN PLAN – TRUCK TRAFFIC ROUTING – OUT
EXH-05	AUTOTURN PLAN – FIRETRUCK TRAFFIC ROUTING
L-100	OVERALL TREE DISPOSITION PLAN
L-101	TREE DISPOSITION PLAN
L-102	TREE DISPOSITION PLAN
L-103	TREE DISPOSITION PLAN
L-104	TREE DISPOSITION PLAN
L-105	TREE DISPOSITION PLAN
L-106	TREE DISPOSITION PLAN
L-107	TREE DISPOSITION PLAN
L-200	PHASE 1 LANDSCAPE KEY MAP
L-201	PHASE 1 LANDSCAPE PLAN
L-202	PHASE 1 LANDSCAPE PLAN
L-203	PHASE 1 LANDSCAPE PLAN
L-204	PHASE 1 LANDSCAPE PLAN
L-205	PHASE 2 LANDSCAPE KEY MAP
L-206	PHASE 2 LANDSCAPE PLAN
L-207	PHASE 2 LANDSCAPE PLAN
L-208	PHASE 2 LANDSCAPE PLAN
L-209	PHASE 2 LANDSCAPE PLAN
L-210	LANDSCAPE PLAN
L-211	LANDSCAPE DETAILS
L-212	LANDSCAPE NOTES

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

This item has been digitally signed and sealed by Michael D. Spruce, PE (FL PE #52776) on the date noted using a Digital Signature. State of Florida, Professional Engineer, License No. 52776
I am the author of this document.
2023.05.09 07:24:49-04'00'
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

KHA PROJECT	145994004
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	JPL
DRAWN BY	AMS
CHECKED BY	MDS

COVER SHEET

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
C-000

Plotted By:Erik, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-000 COVER SHEET May 08, 2023 06:34:02pm K:\West_civil\145994004 — safe harbor riviera beach\CADD\plansheets\C-000 COVER SHEET.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR AND SUBCONTRACTORS SHALL OBTAIN A COPY OF THE FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (LATEST EDITION), AND BECOME FAMILIAR WITH THE CONTENTS PRIOR TO COMMENCING WORK.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS. CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS UNLESS OTHERWISE INDICATED, REMOVING TREES, STUMPS, ROOTS, MUCK, EXISTING PAVEMENT AND ALL OTHER DELETERIOUS MATERIAL.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 2 WORKING DAYS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR MUST CALL THE UTILITY COMPANIES BEFORE COMMENCING WORK.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS AND BONDS IF REQUIRED PRIOR TO CONSTRUCTION.
5. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, AND SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.
6. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND THE ENGINEER.
7. ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS ARE TO BE SENT TO THE OWNER AND ENGINEER DIRECTLY FROM THE TESTING AGENCY.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TO THE ENGINEER A CERTIFIED RECORD SURVEY SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA DEPICTING THE ACTUAL FIELD LOCATION OF ALL CONSTRUCTED IMPROVEMENTS THAT ARE REQUIRED BY THE JURISDICTIONAL AGENCIES FOR THE CERTIFICATION PROCESS. ALL SURVEY COSTS WILL BE THE CONTRACTOR'S RESPONSIBILITY.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING AS-BUILT INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION PROGRESSES OR AT THE COMPLETION OF APPROPRIATE CONSTRUCTION INTERVALS AND SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS TO THE OWNER FOR THE PURPOSE OF CERTIFICATION TO JURISDICTIONAL AGENCIES AS REQUIRED. ALL AS-BUILT DATA SHALL BE COLLECTED BY A STATE OF FLORIDA PROFESSIONAL LAND SURVEYOR WHOSE SERVICES ARE ENGAGED BY THE CONTRACTOR.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK THAT WOULD BE AFFECTED. FAILURE TO NOTIFY OWNER OF AN IDENTIFIABLE CONFLICT PRIOR TO PROCEEDING WITH INSTALLATION RELIEVES OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.
11. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR VERIFYING ALL QUANTITIES, TAKE-OFF MEASUREMENTS, MATERIALS, ETC. DURING THE BID PROCESS WHEN DISCREPANCIES OCCUR, THE PHYSICAL PLAN TAKES PRECEDENCE. THE ENGINEER, LANDSCAPE ARCHITECT, COUNTY, CITY OR PROJECT MANAGERS ARE NOT TO BE HELD RESPONSIBLE FOR DISCREPANCIES TO THE SPECIFICATIONS OR PLANS.
12. THE CONTRACTOR SHALL LIMIT CONSTRUCTION OPERATIONS TO WITHIN THE LIMITS OF CONSTRUCTION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY DAMAGES OUTSIDE THE LIMITS OF CONSTRUCTION.
13. CONTRACTOR IS ADVISED THAT THE U.S. ENVIRONMENTAL PROTECTION AGENCY REQUIRES THAT ALL OPERATORS FILE A NOTICE OF INTENT (NOI) FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NPDES GENERAL PERMIT PRIOR TO BEGINNING WORK. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO OBTAIN THE SAME. A COPY SHALL BE SENT TO THE ENGINEER OF RECORD, ARCHITECT OF RECORD AND THE OWNER.
14. FLORIDA LAW (F.S. 553.851) PROTECTION OF UNDERGROUND PIPELINES MANDATES THAT "NO EXCAVATOR SHALL COMMENCE OR PERFORM ANY EXCAVATION WITHOUT FIRST OBTAINING INFORMATION CONCERNING THE POSSIBLE LOCATION OF GAS PIPELINES IN THE AREA OF PROPOSED EXCAVATION." THE EXCAVATOR MUST NOTIFY THE GAS UTILITY A MINIMUM OF 2 WORKING DAYS AND A MAXIMUM OF 5 WORKING DAYS PRIOR TO EXCAVATION.
15. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE LOCAL ELECTRICAL PROVIDER ON ANY WORK IN THE VICINITY OF OVERHEAD OR UNDERGROUND POWER LINES.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL PLANS RELATED TO SITE WORK INCLUDING (BUT NOT LIMITED TO) LANDSCAPE, IRRIGATION, SITE LIGHTING, BUILDING FOUNDATION, PLUMBING, FIRE SPRINKLER, AND OTHER APPLICABLE PLANS FOR CONFLICTING INFORMATION AND ALERT OWNER'S REPRESENTATIVE OF ANY CONFLICT FOR RESOLUTION.
17. CONTRACTOR SHALL VERIFY LOCATION OF ALL IRRIGATION, STREET LIGHTING, AND ELECTRICAL CONDUIT THAT WILL BE IN CONFLICT WITH ANY PROPOSED CONSTRUCTION AND SHALL RESOLVE CONFLICT ACCORDINGLY. COST OF CONFLICT RESOLUTION SHALL BE INCLUDED IN THE BID.
18. ANY DEBRIS RESULTING FROM STRIPPING AND DEMOLITION OPERATIONS SHALL BE REMOVED FROM THE SITE AT FREQUENT INTERVALS TO PREVENT THIS MATERIAL FROM ACCUMULATING ON SITE.
19. UPON REMOVAL OF TREES, SHRUBS OR ANY STUMP GRINDING, NO ROOT GREATER THAN THREE INCHES IN DIAMETER SHALL REMAIN WITHIN FIVE FEET OF AN UNDERGROUND STRUCTURE OR UTILITY LINE OR UNDER SLABS OR FOOTINGS OR PAVED AREAS.
20. THE CONTRACTOR SHALL RESTORE ALL DISTURBED VEGETATION IN KIND, UNLESS SHOWN OTHERWISE.
21. THE CONTRACTOR SHALL ENSURE THAT ANY TREE OR SHRUB PLACED WITHIN WATER, SEWER OR DRAINAGE EASEMENTS SHALL CONFORM TO THE CITY OF RIVIERA STANDARD DETAILS

PRECONSTRUCTION RESPONSIBILITIES

1. UPON RECEIPT OF NOTICE OF AWARD, THE CONTRACTOR SHALL ARRANGE A PRECONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, ALL AFFECTED UTILITY OWNERS, THE OWNER, THE ENGINEER AND ITSELF.
2. THE CONTRACTOR SHALL CONTACT "SUNSHINE STATE ONE CALL OF FLORIDA, INC. (811)" AT LEAST 2 WORKING DAYS PRIOR TO BEGINNING ANY EXCAVATION.
3. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, ELEVATION, AND MATERIAL OF ALL EXISTING UTILITIES WITHIN THE AREA OF CONSTRUCTION.
4. EXISTING UTILITY LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF EXISTING UTILITIES SHOWN OR FOR ANY EXISTING UTILITIES NOT SHOWN.
5. IF UPON EXCAVATION, AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION OR TO BE OF A SIZE OR MATERIAL DIFFERENT FROM THAT SHOWN ON THE PLANS; THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.

CONSTRUCTION SAFETY

ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER, SPECIFICALLY, THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL BE STRICTLY OBSERVED.

UTILITIES

EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE TOPOGRAPHIC SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE HE COMMENCES ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.

EROSION CONTROL NOTES

1. THE STORM WATER POLLUTION PREVENTION PLAN ("SWPPP") IS COMPRISED OF THIS EROSION AND SEDIMENTATION CONTROL PLAN, THE STANDARD DETAILS, AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS PROVIDED BY THE CONTRACTOR.
2. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE OF FLORIDA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.
3. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
4. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY THE PERMITTING AGENCY OR OWNER.
5. EROSION AND SEDIMENTATION CONTROL PLAN MUST CLEARLY DELINEATE ALL STATE WATERS. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.
6. THE CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.
7. CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.
8. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
9. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
10. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
11. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THE PLAN, SHALL BE INITIATED AS SOON AS PRACTICABLE.
12. STABILIZATION PRACTICES SHOULD BE INITIATED AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS WHERE CONSTRUCTION HAS TEMPORARILY OR PERMANENTLY CEASED.
13. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY STABILIZED. THESE AREAS SHALL BE STABILIZED NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRED.
14. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.
15. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED AS SOON AS POSSIBLE.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
17. ON-SITE & OFF-SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE EROSION AND SEDIMENTATION CONTROL PLAN AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
18. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
19. DUE TO GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES AS NECESSARY AS CONSTRUCTION PROGRESSES (SILT FENCES, ETC.) TO PREVENT EROSION.
20. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY, THIS INCLUDES BACK FILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.
21. EROSION AND SEDIMENTATION CONTROL PLANS PROVIDED HEREIN ARE A GUIDELINE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PREPARING THE FINAL STORM WATER POLLUTION PREVENTION PLAN. THE PLAN SHALL BE SUBMITTED TO THE OWNER AND ENGINEER WHICH DEMONSTRATES THE MECHANISMS AND PRACTICES THAT WILL BE EMPLOYED TO PROTECT THE CONSTRUCTION SITE AND SURROUNDING AREA DURING CONSTRUCTION. THE PLAN SHALL BE CONSISTENT WITH FEDERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES PERMIT REQUIREMENTS PERTAINING TO POLLUTION PREVENTION PLANS. THE PLAN SHALL INCLUDE, BUT NOT BE LIMITED TO, THE LOCATIONS OF SILT BARRIERS, TURBIDITY SCREENS OR TEMPORARY SHEETING, EMERGENCY RESPONSE PRACTICES, AND OTHER METHODS TO PREVENT POLLUTION. REFUELING OR STORAGE OF VEHICLES OR EQUIPMENT THAT UTILIZE PETROLEUM BASED PRODUCTS SHALL BE PROHIBITED ANYWHERE WITHIN 50 FEET OF A WATER'S EDGE. THE PLAN SHALL BE SUBMITTED TO THE OWNER AFTER NOTICE OF AWARD AND PRIOR TO NOTICE TO PROCEED. AFTER REVIEW BY OWNER THE PLAN SHALL BE FILED WITH ALL APPLICABLE REGULATORY AGENCIES BY THE CONTRACTOR. REFER TO FURTHER NOTES AND DETAILS WITHIN THESE DOCUMENTS.
22. SILT FENCE IS REQUIRED AS SHOWN ON THE PLANS AND ANYWHERE ADDITIONAL AS REQUIRED BY CONSTRUCTION. SILT FENCE IS NOT APPLICABLE IN PAVEMENT AREAS. LIMITS OF CONSTRUCTION SHOWN ARE DIAGRAMATIC. CONTRACTOR TO PROVIDE PLAN FOR SHOP DRAWING REVIEW.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.

DEMOLITION NOTES

1. ALL MATERIAL REMOVED FROM THIS SITE BY THE CONTRACTOR SHALL BE DISPOSED OF BY THE CONTRACTOR IN A LEGAL MANNER.
2. REFER TO THE TOPOGRAPHIC SURVEY FOR ADDITIONAL DETAILS OF EXISTING STRUCTURES, ETC., LOCATED WITHIN THE PROJECT SITE. UNLESS OTHERWISE NOTED, ALL EXISTING BUILDINGS, STRUCTURES, SLABS, CONCRETE, ASPHALT, DEBRIS PILES, SIGNS, AND ALL APPURTENANCES ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR AND PROPERLY DISPOSED OF IN A LEGAL MANNER AS PART OF THIS CONTRACT. SOME ITEMS TO BE REMOVED MAY NOT BE DEPICTED ON THE TOPOGRAPHIC SURVEY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE FULL EXTENT OF ITEMS TO BE REMOVED. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE OWNER PRIOR TO REMOVAL OF SAID ITEMS.
3. THE CONTRACTOR SHALL REFER TO THE DEMOLITION PLAN AND LANDSCAPE PLAN FOR DEMOLITION/PRESERVATION OF EXISTING TREES. ALL TREES NOT SPECIFICALLY SHOWN TO BE REMOVED OR RELOCATED SHALL BE PRESERVED AS A PART OF THIS CONTRACT. TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO ANY DEMOLITION. CONTRACTOR TO SEE LANDSCAPE PLAN FOR TREE PROTECTION REQUIREMENTS. ALL TREES TO REMAIN UNLESS OTHERWISE NOTED. CONTRACTOR TO NOTE EXISTING TREES TO REMAIN. SHOULD ANY TREE TO BE REMAIN BE DAMAGED BY THE CONTRACTOR, IT WILL REQUIRE REPLACEMENT IN KIND.

TRENCH SAFETY ACT

1. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLIANCE WITH THE STATE OF FLORIDA TRENCH SAFETY ACT.
2. WHERE EXCAVATIONS TO A DEPTH IN EXCESS OF FIVE FEET (5') ARE REQUIRED. THE CONTRACTOR SHALL INCLUDE THE FOLLOWING INFORMATION IN THE BID:
   A. A REFERENCE TO THE TRENCH SAFETY STANDARDS THAT WILL BE IN EFFECT DURING THE PERIOD OF CONSTRUCTION OF THE PROJECT.
   B. WRITTEN ASSURANCES BY THE CONTRACTOR PERFORMING THE TRENCH EXACTION THAT SUCH CONTRACTOR WILL COMPLY WITH THE APPLICABLE TRENCH SAFETY STANDARDS.
   C. A SEPARATE ITEM IDENTIFYING THE COST OF COMPLIANCE WITH THE APPLICABLE TRENCH SAFETY STANDARDS.
3. WHEN A BID IS NOT SUBMITTED, THE CONTRACTOR SHALL SUBMIT THE INFORMATION LISTED IN ITEM "2" TO THE ENGINEER PRIOR TO STARTING WORK.

SURVEY DATA

1. THE CONTRACTOR SHALL PROTECT ALL PERMANENT REFERENCE MONUMENTS AND TAKE ALL PRECAUTIONS NECESSARY TO AVOID DAMAGE TO SURVEY MAKERS DURING CONSTRUCTION. ANY SURVEY MARKERS DAMAGED DURING CONSTRUCTION WILL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
2. BENCHMARK LOCATION AND ELEVATION ARE AS REPRESENTED BY SURVEYOR AT THE TIME OF SURVEY. CONTRACTOR SHALL VERIFY ITS CORRECTNESS AT TIME OF CONSTRUCTION.
3. ALL ELEVATIONS ON THE PLANS OR REFERENCED IN THE SPECIFICATIONS ARE BASED ON NORTH AMERICAN DATUM OF 1988 (N.A.V.D. 88').

MAINTENANCE

1. ALL MEASURES STATED ON THE EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A 0.5" RAINFALL EVENT, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:
2. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION. INLET PROTECTION DEVICES SHALL BE CLEANED OUT AT REGULAR INTERVALS OR AS THEY BECOME FULL OF DEBRIS.
3. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED AND RESEEDED AS NEEDED.
4. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.
5. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.
6. ALL MAINTENANCE OPERATIONS SHALL BE DONE IN A TIMELY MANNER BUT IN NO CASE LATER THAN 2 CALENDAR DAYS FOLLOWING THE INSPECTION.

INTERRUPTION OF EXISTING UTILITIES

ANY CONSTRUCTION WORK THAT REQUIRES INTERRUPTION OF SERVICE TO ANY CUSTOMER SHALL BE DONE SO WITH A MINIMUM OF SEVENTY-TWO (72) HOUR NOTICE TO, AND WRITTEN APPROVAL BY THE APPROPRIATE UTILITY COMPANY. THE CONTRACTOR SHALL ARRANGE A MEETING WITH THE LOCAL JURISDICTIONAL AGENCIES AND OTHER GOVERNING AGENCIES, AND OTHER AFFECTED UTILITIES PRIOR TO SCHEDULING THE SHUTDOWN TO ASSESS THE SCOPE OF WORK. ALL SYSTEM SHUT DOWNS SHALL BE SCHEDULED BY THE CONTRACTOR AT SUCH TIME THAT SYSTEM DEMAND IS LOW. THIS GENERALLY REQUIRES NIGHT TIME WORK BY THE CONTRACTOR AND REQUIRES FULL TIME INSPECTION BY A REPRESENTATIVE OF THE UTILITY. ALL COST FOR OVERTIME WORK BY THE REPRESENTATIVE OF THE UTILITY SHALL BE BORNE BY THE CONTRACTOR. EACH CUSTOMER AFFECTED BY THE SHUT DOWN SHALL BE PROVIDED, MINIMUM, FORTY-EIGHT (48) HOURS WRITTEN NOTIFICATION BY THE CONTRACTOR.

PAVING, GRADING AND DRAINAGE NOTES

1. ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH LOCAL COUNTY OR STATE SPECIFICATIONS AND STANDARDS (LATEST EDITION) OR FDOT SPECIFICATIONS AND STANDARDS (LATEST EDITION) IF NOT COVERED BY LOCAL OR COUNTY REGULATIONS, WHICHEVER IS MOST RESTRICTIVE.
2. ALL UNPAVED AREAS DISTURBED BY CONSTRUCTION SHALL BE REGRADED AND SODDED, UNLESS OTHERWISE NOTED.
3. TRAFFIC CONTROL ON ALL FDOT, LOCAL AND COUNTY RIGHTS-OF-WAY SHALL MEET THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (U.S. DOT/FHA) AND THE REQUIREMENTS OF THE STATE AND ANY LOCAL AGENCY HAVING JURISDICTION. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
4. THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL REGRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND IS WELL ESTABLISHED OR ADEQUATE STABILIZATION OCCURS.
5. ALL OPEN AREAS WITHIN THE PROJECT SITE SHALL BE SODDED WITH BAHIA SOD UNLESS INDICATED OTHERWISE ON THE ENGINEERING OR LANDSCAPE PLANS.
6. ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS AS INDICATED ON THE DRAWINGS.
7. WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL SAW CUT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND REPLACE THE PAVEMENT WITH THE SAME TYPE AND DEPTH OF MATERIAL AS EXISTING OR AS INDICATED.
8. WHERE NEW PAVEMENT MEETS THE EXISTING PAVEMENT, THE CONTRACTOR SHALL SAW CUT THE EXISTING PAVEMENT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND MATCH THE EXISTING PAVEMENT ELEVATION WITH THE PROPOSED PAVEMENT UNLESS OTHERWISE INDICATED.
9. THE CONTRACTOR SHALL INSTALL FILTER FABRIC OVER ALL DRAINAGE STRUCTURES FOR THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL DRAINAGE STRUCTURES AND PIPES WITHIN THE LIMITS OF CONSTRUCTION SHALL BE CLEANED OF DEBRIS AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS.
10. IF DEWATERING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE REQUIRED PERMITS. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER AND THE ENGINEER PRIOR TO ANY EXCAVATION.
11. CONTRACTOR TO STRIP TOPSOIL AND ORGANIC MATTER FROM ALL AREAS OF THE SITE AS REQUIRED. IN SOME CASES TOPSOIL MAY BE STOCKPILED ON SITE FOR PLACEMENT WITHIN LANDSCAPED AREAS BUT ONLY AS DIRECTED BY THE OWNER.
12. FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE LOCAL JURISDICTIONAL AGENCY OR TO FDOT STANDARDS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
13. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED AS PER PLANS. THE AREAS SHALL THEN BE SODDED AS SPECIFIED IN THE PLANS, FERTILIZED, MULCHED, WATERED, AND MAINTAINED UNTIL A GOOD STAND OF GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE JOB SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
14. ALL CUT OR FILL SLOPES SHALL BE 4 (HORIZONTAL) :1 (VERTICAL) OR FLATTER UNLESS OTHERWISE SHOWN.
15. THE CONTRACTOR SHALL ENSURE THAT ISLAND PLANTING AREAS AND OTHER PLANTING AREAS ARE NOT COMPACTED AND DO NOT CONTAIN ROAD BASE MATERIALS. THE CONTRACTOR SHALL ALSO EXCAVATE AND REMOVE ALL UNDESIRABLE MATERIAL FROM ALL AREAS ON THE SITE TO BE PLANTED AND PROPERLY DISPOSED OF IN A LEGAL MANNER.

WATER AND SEWER UTILITY NOTES

1. ALL CONSTRUCTION SHALL MEET OR EXCEED THE LOCAL WATER AND SEWER REQUIREMENTS AND THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS UNLESS OTHERWISE NOTED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE SPECIFICATIONS AND DETAILS FROM THE LOCAL AGENCY.
2. THE CONTRACTOR SHALL CONSTRUCT GRAVITY SEWER LATERALS, MANHOLES AND GRAVITY SEWER LINES AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS, EQUIPMENT, MACHINERY, TOOLS, MEANS OF TRANSPORTATION AND LABOR NECESSARY TO COMPLETE THE WORK IN FULL AND COMPLETE ACCORDANCE WITH THE SHOWN, DESCRIBED AND REASONABLY INTENDED REQUIREMENTS OF THE CONTRACT DOCUMENTS AND JURISDICTIONAL AGENCY REQUIREMENTS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
3. EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE TOPOGRAPHIC SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE HE COMMENCES ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
4. DEFLECTION OF PIPE JOINTS AND CURVATURE OF PIPE SHALL NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS. SECURELY CLOSE ALL OPEN ENDS OF PIPE AND FITTINGS WITH A WATERTIGHT PLUG WHEN WORK IS NOT IN PROGRESS. THE INTERIOR OF ALL PIPES SHALL BE CLEAN AND JOINT SURFACES WIPED CLEAN AND DRY AFTER THE PIPE HAS BEEN LOWERED INTO THE TRENCH. VALVES SHALL BE PLUMB AND LOCATED ACCORDING TO THE PLANS.
5. ALL PHASES OF INSTALLATION, INCLUDING UNLOADING, TRENCHING, LAYING AND BACK FILLING, SHALL BE DONE IN A FIRST CLASS WORKMANLIKE MANNER. ALL PIPE AND FITTINGS SHALL BE CAREFULLY STORED FOLLOWING MANUFACTURER'S RECOMMENDATIONS. CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE COATING OR LINING OF ANY D.I. PIPE FITTINGS. ANY PIPE OR FITTING WHICH IS DAMAGED OR WHICH HAS FLAWS OR IMPERFECTIONS WHICH, IN THE OPINION OF THE ENGINEER OR OWNER, RENDERS IT UNFIT FOR USE, SHALL NOT BE USED. ANY PIPE NOT SATISFACTORY FOR USE SHALL BE CLEARLY MARKED AND IMMEDIATELY REMOVED FROM THE JOB SITE, AND SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
6. WATER FOR FIRE FIGHTING SHALL BE AVAILABLE FOR USE PRIOR TO COMBUSTIBLES BEING BROUGHT ON SITE.
7. ALL UTILITY AND STORM DRAIN TRENCHES LOCATED UNDER AREAS TO RECEIVE PAVING SHALL BE COMPLETELY BACK FILLED IN ACCORDANCE WITH THE GOVERNING JURISDICTIONAL AGENCY'S SPECIFICATIONS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
8. UNDERGROUND LINES SHALL BE AS-BUILT BY A STATE OF FLORIDA PROFESSIONAL LAND SURVEYOR BEFORE BACK FILLING.
9. CONTRACTOR SHALL PERFORM, AT HIS OWN EXPENSE, ANY AND ALL TESTS REQUIRED BY THE SPECIFICATIONS AND/OR ANY AGENCY HAVING JURISDICTION. THESE TESTS MAY INCLUDE, BUT MAY NOT BE LIMITED TO, INFILTRATION AND EXFILTRATION, TELEVISION INSPECTION AND A MANDREL TEST ON GRAVITY SEWER. A COPY OF THE TEST RESULTS SHALL BE PROVIDED TO THE UTILITY PROVIDER, OWNER AND JURISDICTIONAL AGENCY AS REQUIRED.
10. ALL PIPES AND CONNECTIONS ARE TO BE RESTRAINED IN ACCORDANCE WITH THE DETAILS OR JURISDICTIONAL AGENCY REQUIREMENTS, WHICHEVER IS MOST STRINGENT.
11. ALL WATER DISTRIBUTION SYSTEM MATERIALS (INCLUDING SERVICES) AND INSTALLATION SHALL CONFORM TO THE SPECIFICATIONS OF THE LOCAL WATER PROVIDER AS PROVIDED IN THEIR STANDARD SPECIFICATIONS MANUAL AND THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN SPECIFICATION MANUALS PRIOR TO BIDDING THE PROJECT.
12. ALL POTABLE WATER PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT WILL BE COLOR CODED OR MARKED IN ACCORDANCE WITH F.A.C. 62-555.320(21)(B)3, USING BLUE AS THE PREDOMINANT COLOR. (UNDERGROUND PLASTIC PIPE WILL BE SOLID-WALL BLUE PIPE WILL HAVE A CO-EXTRUDED BLUE EXTERNAL SKIN, OR WILL BE WHITE OR BLACK WITH BLUE STRIPES INCORPORATED INTO, OR APPLIED TO, THE PIPE WALL, PIPE STRIPED DURING THE MANUFACTURING OF THE PIPE WILL HAVE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE, THAT ARE LOCATED AT NO GREATER THAN 90-DEGREE INTERVALS AROUND THE PIPE, AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE. IF TAPE OR PAINT IS USED TO STRIPE PIPE DURING AND AFTER INSTALLATION OF THE PIPE, THE TAPE OR PAINT WILL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED ALONG THE TOP OF THE PIPE; FOR PIPE WITH AN INTERNAL DIAMETER OR 24" OR GREATER. TAPE OR PAINT WILL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE. ABOVEGROUND PIPE WILL BE PAINTED BLUE OR WILL BE COLOR CODED OR MARKED LIKE UNDERGROUND PIPE.
13. ALL WATER MAINS ARE DESIGNED FOR A MINIMUM WORKING PRESSURE OF 150 PSI, HAVE COMPRESSION TYPE BELL JOINTS AND BE EITHER ANSI/AWWA C-151/A21.51-02 DUCTILE IRON PIPE (D.I.P.), CLASS 50 FOR 6" DIAMETER PIPE AND LARGER AND CLASS 51 IF PIPE DIAMETER IS SMALLER THAN 6" OR ANSI/AWWA C-900-97, PVC PIPE WITH A MAXIMUM SDR OF 18. ALL D.I.P. WATER MAINS SHALL BE CEMENT LINED AND SEAL COATED IN ACCORDANCE WITH ANSI/AWWA STANDARDS. ALL D.I.P. FORCE MAINS SHALL BE COATED OUTSIDE WITH A BITUMINOUS COATING APPROXIMATELY ONE MIL THICK IN ACCORDANCE WITH ANSI 21.51-8, CEMENT MORTAR LININGS ARE NOT APPROPRIATE FOR THIS APPLICATION. ALL D.I.P. FORCE MAINS AND GRAVITY SEWER MAINS SHALL BE COATED INSIDE WITH POLYBOND VIRGIN POLYETHYLENE COMPLYING WITH A.S.T.M. DESIGNATION D 1248 AND HAVE A MINIMUM "N" VALUE OF 0.012. SEE PROJECT SPECIFICATIONS MANUAL FOR MORE DETAILS. OR PROTECTOR 401 CEREMIC EPOXY. ALL D.I.P. PIPE SHALL BE LAID WITH A MINIMUM OF 30" CLEAR COVER. ALL PVC PIPE SHALL BE LAID WITH A MINIMUM OF 36" CLEAR COVER.
14. NEW OR RELOCATED, UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT WILL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER, STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER; A HORIZONTAL DISTANCE OF AT LEAST SIX FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-TYPE SANITARY SEWER(OR A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-TYPE SANITARY SEWER IF THE BOTTOM OF THE WATER MAIN WILL BE LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER); A HORIZONTAL DISTANCE OF AT LEAST SIX FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER.
15. NEW OR RELOCATED, UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT THAT WILL CROSS ANY EXISTING OR PROPOSED GRAVITY- OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER WILL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES ABOVE THE OTHER PIPELINE OR AT LEAST 12 INCHES BELOW THE OTHER PIPELINE; NEW OR RELOCATED, UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT THAT WILL CROSS ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER,WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER WILL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OTHER PIPELINE.
16. THE WATER SYSTEM SHALL BE CLEANED OF DEBRIS, FLUSHED AND TESTED FOR A PERIOD OF NOT LESS THAN 2 HOURS AT A MINIMUM STARTING PRESSURE OF 150 PSI WITH AN ALLOWABLE LEAKAGE NOT TO EXCEED THE ALLOWABLE GAL/HR IN ACCORDANCE WITH THE ANSI/AWWA C-600-05 STANDARD SECTION 4.2.2.

(EQUATION $L = \frac{SD\sqrt{P}}{148,000}$)

L = ALLOWABLE LEAKAGE, GALLONS/HOUR
S = LENGTH OF PIPE TESTED, FEET
D = NOMINAL DIAMETER, INCHES
P = AVERAGE TEST PRESSURE, LB/IN GAUGE

17. AFTER THE PRESSURE TEST, THE SYSTEM SHALL BE DISINFECTED. DISINFECTION SHALL BE IN ACCORDANCE W/ANSI/AWWA C651-05 STD. BACTERIOLOGICAL TESTS SHALL BE TAKEN TWO (2) CONSECUTIVE DAYS, AT LEAST 24 HOURS APART AND SHALL BE AT LEAST ONE SAMPLE PER 1,200 FEET OF MAIN IN THE SYSTEM. THE SAMPLE SHALL HAVE A HETEROTROPHIC PLATE COUNT (HPC) LESS THAN 500 CFU/ML AND SHALL BE FREE OF COLIFORM BACTERIA.
18. AT THE TIME OF BACTERIOLOGICAL SAMPLING, CHLORINE RESIDUAL DETERMINATION SHALL BE MADE TO INSURE THAT CHLORINE CONCENTRATION IN THE MAIN IS NO HIGHER THAN THAT GENERALLY IN THE SYSTEM (4.0 MG/L FREE OR 4.0 MG/L COMBINED MAXIMUM), OR LESS THAN 0.2 MG/L FREE OR 0.6 MG/L COMBINED. THE RESULT SHALL BE REPORTED ALONG WITH THE BACTERIOLOGICAL TEST RESULTS. ALL TESTING SHALL BE COORDINATED AND PAID FOR BY THE CONTRACTOR.

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE, SUITE 201,
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

This item has been digitally signed and sealed by Michael D. Spruce, PE (FL PE #52776) on the date noted using a Digital Signature. State of Florida, Professional Engineer, License No. 52776
I am the author of this document.
2023.05.09 07:24:51-04'00'
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

KHA PROJECT	DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY
145994004	MAY 2023	AS SHOWN	JPL	AMS	MDS

GENERAL NOTES

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
C-001

Plotted By:Erfle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-001 GENERAL NOTES May 08, 2023 06:34:14pm K:\bcd_civil\145994004 - safe harbor riviera beach\CADD\plansheets\C-000 COVER SHEET.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

MINIMUM REQUIRED AS-BUILT INFORMATION

1. ALL AS-BUILT INFORMATION SUBMITTED TO THE ENGINEER SHALL BE SUFFICIENTLY ACCURATE, CLEAR, AND LEGIBLE TO SATISFY THE ENGINEER THAT THE INFORMATION PROVIDES A TRUE REPRESENTATION OF THE IMPROVEMENTS CONSTRUCTED.
2. STORM DRAINAGE:
   A. TOP ELEVATION OF EACH MANHOLE FRAME AND COVER / GRATE AS WELL ALL OTHER STRUCTURES (HEADWALLS, CONTROL STRUCTURES, ETC.).
   B. INVERT ELEVATION OF EACH LINE ENTERING AND LEAVING EACH STRUCTURE, INCLUDING UNDERDRAIN PIPES.
   C. INVERTS OF ALL MITERED END SECTIONS
   D. ACTUAL GRADE OF PIPE BETWEEN THE STRUCTURES
   E. INVERT ELEVATION AND TWO HORIZONTAL TIES FROM PERMANENT VISIBLE OBJECTS TO ALL STORM STUB-OUTS.
   F. CONTRACTOR SHALL PROVIDE ACCURATE AS-BUILT DIMENSIONS AND ELEVATIONS OF THE STORM WATER MANAGEMENT AREAS IMMEDIATELY AFTER FINAL GRADING AND PRIOR TO SEEDING OR SODDING OF THE SLOPES. AT A MINIMUM, THE CONTRACTOR SHALL PROVIDE CROSS SECTIONS ON ALL SIDES OF THE WATER MANAGEMENT AREAS AT 100-FOOT INTERVALS. THE CROSS SECTIONS SHALL BE PROVIDED FROM TOP OF BANK TO THE SLOPE BREAK BELOW CONTROL ELEVATION THE ENGINEER'S APPROVAL IS REQUIRED PRIOR TO GRASSING OF THE BANK. IF ANY MODIFICATIONS ARE SPECIFIED, ADDITIONAL AS-BUILTS MAY BE REQUIRED.
3. LOCATIONS AND DEPTHS OF UNDERGROUND UTILITIES.
4. REVISIONS TO ROUTING OF PIPING AND CONDUITS.
5. REVISIONS TO ELECTRICAL CIRCUITRY.
6. ACTUAL EQUIPMENT LOCATIONS.
7. CHANGES MADE BY CHANGE ORDER OR CONSTRUCTION CHANGE DIRECTIVE.
8. CHANGES MADE FOLLOWING ENGINEER'S WRITTEN ORDERS.
9. DETAILS NOT ON THE ORIGINAL CONTRACT DRAWINGS.
10. FIELD RECORDS FOR VARIABLE AND CONCEALED CONDITIONS.
11. ALL SLEEVES, FITTINGS, TEES, BENDS, VALVES, ETC. SHALL BE LOCATED BY NORTHING AND EASTING (OR METHOD APPROVED BY ENGINEER) AND ELEVATION OF TOP OF PIPE FOR ALL CONSTRUCTED SLEEVING. AS-BUILTS FOR ALL SLEEVING DEPICTING TOP OF PIPE AT 100-FOOT INTERVALS MUST BE PROVIDED.
12. RECORD DRAWINGS SHALL INDICATE AS-BUILT DATA FOR EVERY ELEVATION SHOWN ON THE PLANS.
13. IF A NEW BENCHMARK LOCATION IS ESTABLISHED, CONTRACTOR SHALL PROVIDE A BENCH LOOP CLOSURE TO THE CLOSEST EXISTING BENCHMARKS IN BOTH DIRECTIONS. ALL BENCHMARK DATA SHALL BE SUBMITTED BY A REGISTERED LAND SURVEYOR.
14. IDENTIFICATION OF ADDENDUM ITEMS ISSUED DURING BIDDING PERIOD.
15. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL AS-BUILT DATA FOR UTILITIES AND SLEEVING IS COLLECTED PRIOR TO PAVEMENT SECTION CONSTRUCTION. PRELIMINARY UTILITY AS-BUILTS MUST BE PROVIDED TO THE ENGINEER FOR REVIEW PRIOR TO PAVEMENT SECTION CONSTRUCTION.
16. PRESSURE SYSTEMS (WATER):
   A. ACTUAL LENGTHS BETWEEN BRANCHES AND VALVES ALONG THE MAIN RUN.
   B. TOP OF PIPE AND FINISHED GRADE ELEVATIONS AT 100' INTERVALS.
   C. LOCATE WITH MEASUREMENTS FROM PERMANENT VISIBLE OBJECTS ALL FITTINGS/ACCESSORIES NOT VISIBLE FROM THE SURFACE (MINIMUM TWO POINT TIES).
   D. AS-BUILT INFORMATION SUBMITTED TO THE ENGINEER SHALL BE SUFFICIENTLY ACCURATE, CLEAR AND LEGIBLE TO SATISFY THE ENGINEER THAT THE INFORMATION PROVIDES A TRUE REPRESENTATION OF THE IMPROVEMENTS CONSTRUCTED.
   E. ALL AS-BUILT INFORMATION SUBMITTED TO THE ENGINEER SHALL BE SUFFICIENTLY ACCURATE, CLEAR AND LEGIBLE TO SATISFY THE ENGINEER THAT THE INFORMATION PROVIDES A TRUE REPRESENTATION OF THE IMPROVEMENTS CONSTRUCTED.
   F. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD COMPLETE SETS OF AS-BUILT CONSTRUCTION DRAWINGS AS REQUIRED FOR SUBMITTAL AND APPROVAL. THESE DRAWINGS SHALL BE MARKED TO SHOW 'AS-BUILT' CONSTRUCTION CHANGES AND DIMENSIONED LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS AND SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR.
   G. ALL OTHER REQUIRED PRESSURE PIPE INFORMATION IN ACCORDANCE WITH THE AS-BUILT REQUIREMENTS OF PALM BEACH COUNTY.
17. UTILITY CROSSING SEPARATION INFORMATION FOR THAT PROVIDED ON THE PLANS VERIFYING:
   A. SIZE AND MATERIAL OF CROSSING PIPES
   B. TOP ELEVATION OF BOTTOM PIPE
   C. BOTTOM ELEVATION OF TOP PIPE
   D. FINISH SURFACE ELEVATION OVER UTILITY CROSSING

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE. SUITE 201.
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

This item has been digitally signed and sealed by Michael D. Spruce, PE (FL PE #52776) on the date noted using a Digital Signature. State of Florida, Professional Engineer, License No. 52776
I am the author of this document.
2023.05.09 07:24:53-04'00'
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

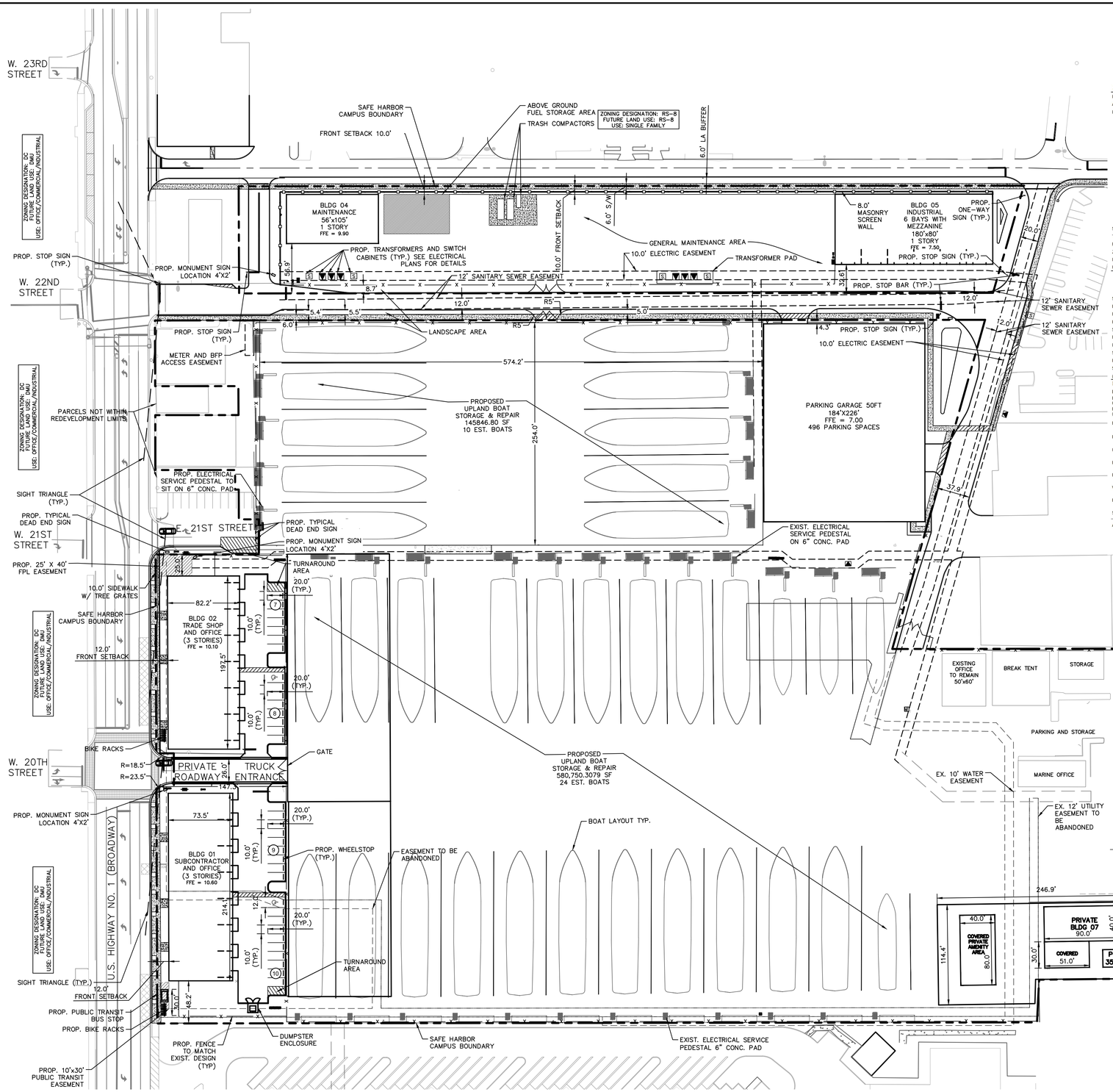
KHA PROJECT	145994004
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	JPL
DRAWN BY	AMS
CHECKED BY	MDS

GENERAL NOTES

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
C-002

Plotted By:Erika, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-002 GENERAL NOTES May 08, 2023 06:34:16pm K:\bcd_civil\145994004 - safe harbor riviera beach\CADD\plansheets\C-000 COVER SHEET.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



NOTE: ALL LANDSCAPE ELEMENTS INSTALLED WITHIN THE PUBLIC RIGHT OF WAY SHALL BE THE MAINTENANCE OBLIGATION OF THE PROJECT.

FEMA FLOOD MAP: 12099C0393F
FLOOD ZONE X
100 YEAR FLOOD ELEVATION 6.00 NAVD 1988

SITE DATA

Project Name		Safe Harbor Marina		
Application Numbers		AB-22-0002 / SP-22-0014 / ZA-22-002		
Property Control Numbers		56-43-42-28-33-000-0010	56-43-42-28-11-004-0020	
		56-43-42-28-11-002-0041	56-43-42-28-11-004-0030	
		56-43-42-28-11-007-0010	56-43-42-28-11-004-0041	
		56-43-42-28-11-005-0010	56-43-42-28-11-003-0010	
		56-43-42-28-11-005-0030	56-43-42-28-11-003-0020	
		56-43-42-28-11-004-0010	56-43-42-28-11-003-0030	
		56-43-42-28-11-008-0040	56-43-42-28-11-003-0040	
		56-43-42-28-11-004-0042	56-43-42-28-11-003-0050	
		56-43-42-28-11-008-0030	56-43-42-28-11-003-0070	
		56-43-42-28-11-008-0130	56-43-42-28-11-003-0090	
		56-43-42-28-11-008-0010	56-43-42-28-11-003-0101	
		56-43-42-28-11-004-0120	56-43-42-28-11-003-0130	
		56-43-42-28-11-004-0130	56-43-42-28-11-003-0140	
		56-43-42-28-11-004-0110	56-43-42-28-11-003-0150	
		56-43-42-28-11-004-0150	56-43-42-28-11-003-0161	
Section, Township, Range		28-42-43		
Traffic Analysis Zone		146		
Future Land Use Designation		Downtown Mixed Use and Working Waterfront		
Zoning Designation		Downtown Core, Downtown Marine and Downtown Residential		
Proposed Zoning Designation		Downtown Core and Downtown Marine		
Use		Marine Related Businesses, Wet and Dry Boat Storage		
		908,226 SF	20.85 AC	%
	Pervious	183,387 SF	4.21 AC	20%
	Impervious	734,857 SF	16.87 AC	80%
Submerged Land		7,841 SF	0.18 AC	0.9%
Building Coverage		126,760 SF	2.91 AC	14%
FAR		0.17		
Height		50'		

Setbacks:	Required	Provided
Front Broadway Street	12 FT to 15 FT	12 FT
Primary Streets	10 FT to 15 FT	10 FT
Secondary Streeets	10 FT	10 FT
Rear	10 FT	0*
Side Interior	0 FT	0

(*Considered Interior to the Site)

Parking

Buildings	Square Footage or Unit Count	Parking Ratio	Required Parking
Building 01 (Industrial/Office) (1st Floor Industrial / 2nd & 3rd Floor Office)	15,660 SF Industrial 31,320 SF Office	1 Space / 500 SF of Industrial & 1 Space / 300 SF of Office	Industrial: 31 Office: 105
Building 02 (Industrial/Office) (1st Floor Industrial / 2nd & 3rd Floor Office)	16,385 SF Industrial 32,770 SF Office	1 Space / 500 SF of Industrial & 1 Space / 300 SF of Office	Industrial: 33 Office: 110
Building 04 (Maintenance Bldg.)	5,575 SF Industrial	1 Space / 500 SF of Industrial	Industrial: 11
Building 05 (Maintenance Bldg.)	14,400 SF Industrial	1 Space / 500 SF of Industrial	Industrial: 29
Upland Work Area	38 Boats	1 Space / 4 Dry Storage Boats	Upland Work Area: 10
Building 06 (Parking Garage)	(No Parking)	(No Parking)	(No Parking)
Building 07 (Private Ammenity Area)	(No Parking)	(No Parking)	(No Parking)
Viking Shared Parking	29,778 SF Industrial	1 Space / 500 SF of Industrial	~60 Spaces
Boathouse Marine	Existing Spaces	-	6
South Facility Contractors	Office / Trade / Subs	-	130 Spaces
ADA	501 to 600 Parking Spaces	-	10 Spaces
		Total Required Parking	**525**
		Total Provided Parking	**530**
		Total ADA Parking Provided	**12**

NORTH

GRAPHIC SCALE IN FEET
0 30 60 120

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201,
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

This item has been digitally signed and sealed by Michael D. Spiuce, PE (FL PE #52776) on the date noted using a Digital Signature. State of Florida, Professional Engineer, License No 52776
I am the author of this document. 2023.05.09 07:24:54-04'00'
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

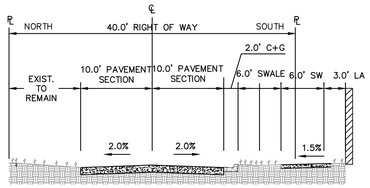
KHA PROJECT	145994004
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	JPL
DRAWN BY	AMS
CHECKED BY	MDS

SITE PLAN

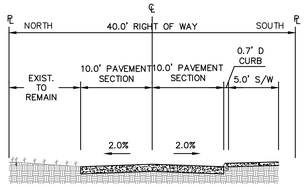
SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS FL
RIVIERA BEACH

SHEET NUMBER
P-100

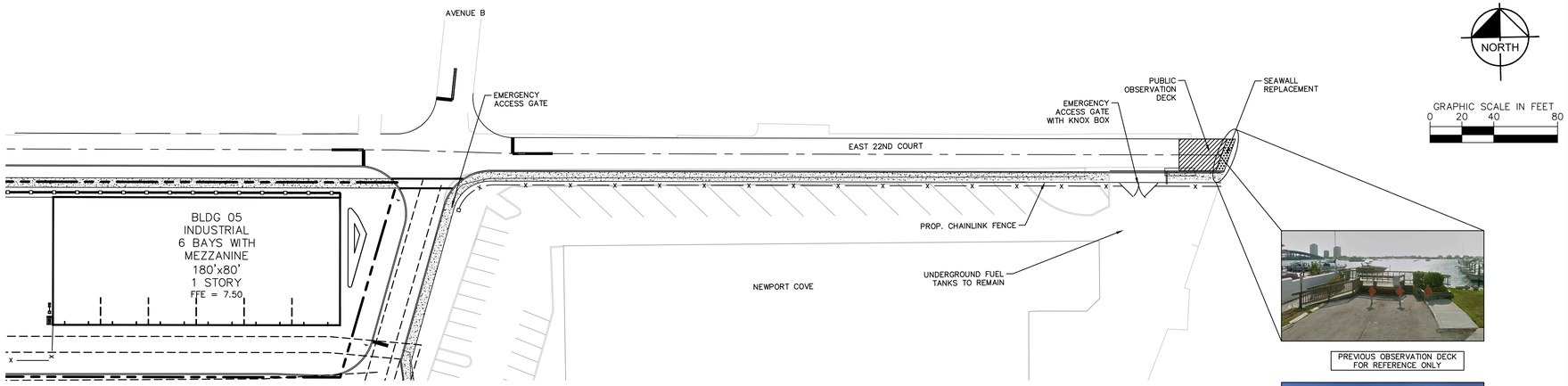
Plotted By:Erlie, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:P-100 SITE PLAN May 08, 2023 08:35:42pm K:\brd_civil\145994004 - safe harbor riviera beach\CAD\plansheets\C-400 SITE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



22ND COURT TYPICAL SECTION
BROADWAY – AVENUE B



22ND COURT TYPICAL SECTION
AVENUE B – SEAWALL



PREVIOUS OBSERVATION DECK
FOR REFERENCE ONLY

PROPOSED OBSERVATION DECK
FOR REFERENCE ONLY

NORTH

GRAPHIC SCALE IN FEET
0 20 40 80

FEMA FLOOD MAP: 12099C0393F
FLOOD ZONE X
100 YEAR FLOOD ELEVATION 6.00 NAVD 1988

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

This item has been digitally signed and sealed by Michael D. Spruce, PE (FL PE #52776) on the date noted using a Digital Signature. State of Florida, Professional Engineer, License No. 52776
I am the author of this document.
2023.05.09 07:24:56-04'00'
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

KHA PROJECT	145994004
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	JPL
DRAWN BY	AMS
CHECKED BY	MDS

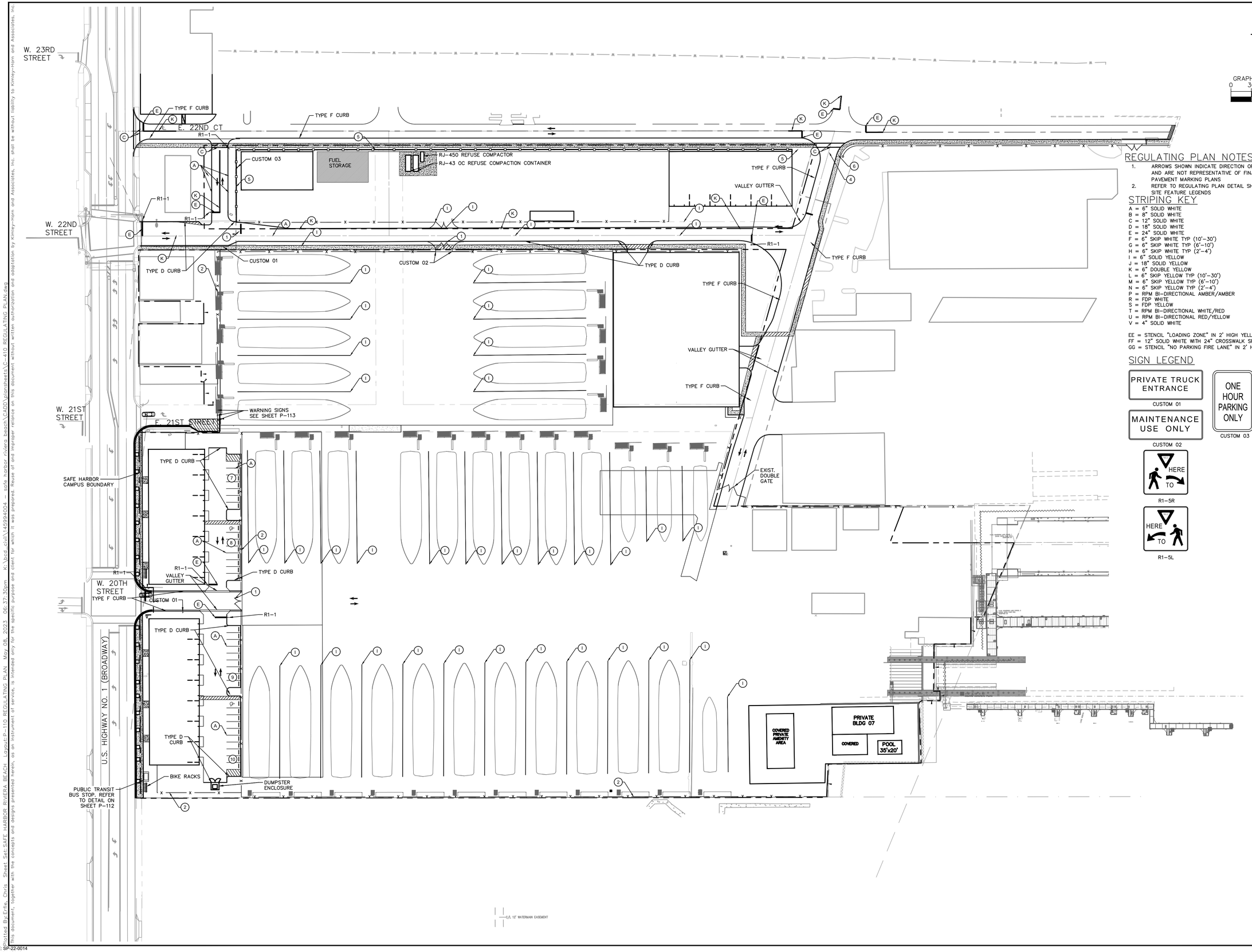
OFFSITE IMPROVEMENT PLAN

SAFE HARBOR
RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
P-101

Plotted By:Effie, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:P-101 OFFSITE IMPROVEMENT PLAN May 08, 2023 08:35:50pm K:\bcd_civil\145994004 – safe harbor riviera beach\CADD\plansheets\C-400 SITE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

Plotted By:Erlo, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:P-110 REGULATING PLAN May 08, 2023 06:37:30pm K:\Vrd_civil\145994004 - safe harbor riviera beach\CAD\plansheets\C-410 REGULATING PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adoption by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



REGULATING PLAN NOTES

1. ARROWS SHOWN INDICATE DIRECTION OF TRAFFIC AND ARE NOT REPRESENTATIVE OF FINAL PAVEMENT MARKING PLANS
2. REFER TO REGULATING PLAN DETAIL SHEETS FOR SITE FEATURE LEGENDS

STRIPING KEY

A = 6" SOLID WHITE
B = 8" SOLID WHITE
C = 12" SOLID WHITE
D = 18" SOLID WHITE
E = 24" SOLID WHITE
F = 6" SKIP WHITE TYP (10'-30')
G = 6" SKIP WHITE TYP (6'-10')
H = 6" SKIP WHITE TYP (2'-4')
I = 6" SOLID YELLOW
J = 18" SOLID YELLOW
K = 6" DOUBLE YELLOW
L = 6" SKIP YELLOW TYP (10'-30')
M = 6" SKIP YELLOW TYP (6'-10')
N = 6" SKIP YELLOW TYP (2'-4')
P = RPM BI-DIRECTIONAL AMBER/AMBER
R = FDP WHITE
S = FDP YELLOW
T = RPM BI-DIRECTIONAL WHITE/RED
U = RPM BI-DIRECTIONAL RED/YELLOW
V = 4" SOLID WHITE

EE = STENCIL "LOADING ZONE" IN 2' HIGH YELLOW LETTERING
FF = 12" SOLID WHITE WITH 24" CROSSWALK SPACING, WIDTH SHOWN.
GG = STENCIL "NO PARKING FIRE LANE" IN 2' HIGH YELLOW LETTERING

SIGN LEGEND

PRIVATE TRUCK ENTRANCE
CUSTOM 01

ONE HOUR PARKING ONLY
CUSTOM 03

MAINTENANCE USE ONLY
CUSTOM 02

R1-5R

R1-5L

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

This item has been digitally signed and sealed by Michael D. Spruce, PE (FL PE #52776) on the date noted using a Digital Signature. State of Florida, Professional Engineer, License No. 52776
I am the author of this document.
2023.05.09 07:24:57-04'00'
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

KHA PROJECT 145994004	DATE MAY 2023	SCALE AS SHOWN	DESIGNED BY JPL	DRAWN BY AMS	CHECKED BY MDS

REGULATING PLAN

SAFE HARBOR RIVIERA BEACH

PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

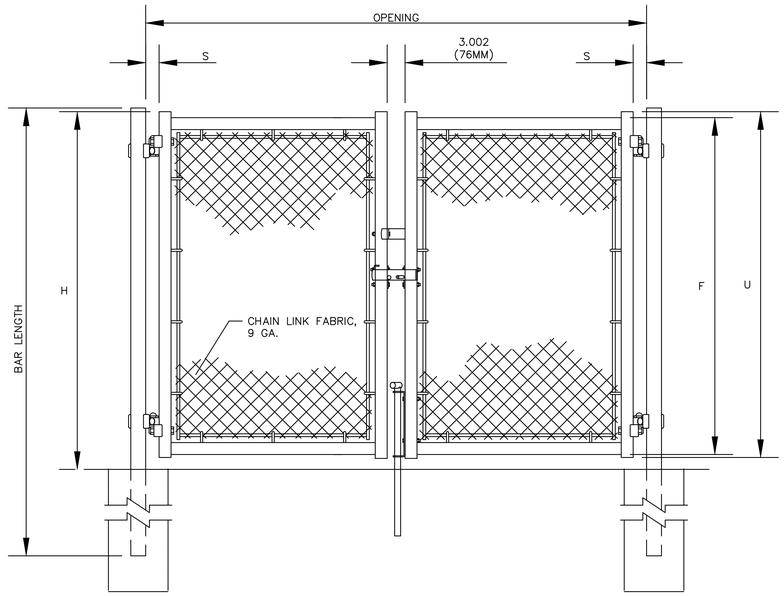
SHEET NUMBER
P-110

PVC COATED CHAIN LINK DOUBLE GATE:

SIZE: 6'–0" H x 12' W or 4'–0" H X 12' W (See plans)

COLOR: ALL PIPE AND CHAIN LINK COMPONENTS TO BE PVC VINYL COATED BLACK. ALL OTHER COMPONENTS TO BE PRIMED AND PAINTED BLACK

1. POST FOUNDATIONS TO BE DESIGNED PER CURRENT FLORIDA BUILDING CODE FOR WIND SPEED AT THE SUBJECT PROPERTY.
2. INSTALL PER MANUFACTURER'S SPECIFICATION. SUBMIT SHOP DRAWING AND COLOR SAMPLES FOR APPROVAL. SIGN FOUNDATION DESIGN PER CONTRACTOR.
3. PROVIDE GALV. LOCKING CLASP, PAINTED BLACK.
4. QUANTITY: AS SHOWN ON CIVIL SHEETS



NOM HEIGHT (H)	UPRIGHT HT (U)	FRAME HT (F)
6'–0"	5'–10"	5'–8 1/2"
4'–0"	3'–10"	3'–8 1/2"

OPENING	GATE POSTS	HINGE SPACE (S)
FACE TO FACE	SQ & RND SIZES	POST TO UPRIGHT
12'–0" [3658MM]	2.875" [73MM] OD	ROUND GATE POSTS: 2 1/4" [57MM]

1 PVC COATED CHAIN LINK GATE
ELEVATION

SCALE: N.T.S

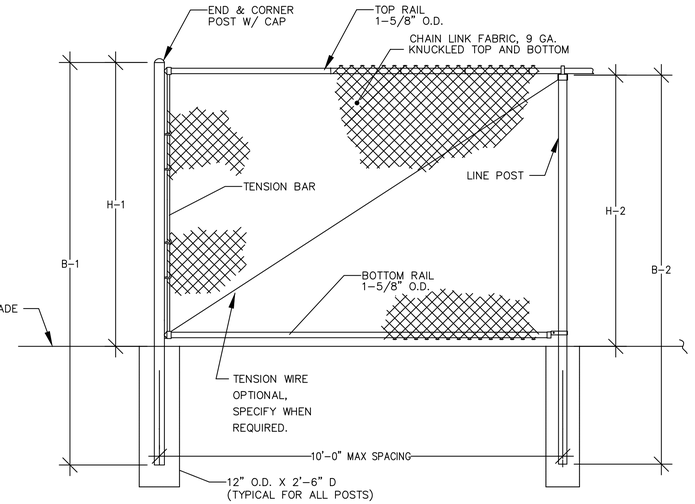
PVC COATED CHAIN LINK FENCE:

SIZE: 6'–0" H or 4'–0" H (See plans)

DESIGN: WITH TOP AND BOTTOM RAIL, AS SHOWN.

COLOR: ALL PIPE AND CHAIN LINK COMPONENTS TO BE PVC VINYL COATED BLACK. ALL OTHER COMPONENTS TO BE PRIMED AND PAINTED BLACK

1. FENCE AND POST FOUNDATIONS TO BE DESIGNED PER CURRENT FLORIDA BUILDING CODE FOR WIND SPEED AT THE SUBJECT PROPERTY.
2. INSTALL PER MANUFACTURER'S SPECIFICATION. SUBMIT SHOP DRAWING AND COLOR SAMPLES FOR APPROVAL. SIGN FOUNDATION DESIGN PER CONTRACTOR.
4. QUANTITY: XXXX



FENCE HEIGHT	END & CORNER POSTS = 2–7/8" O.D.		LINE POSTS – 2–3/8" O.D.	
NOMINAL HEIGHT	B–1 BAR LENGTH	H–1 HEIGHT ABOVE GRADE	B–2 BAR LENGTH	H–2 HEIGHT ABOVE GRADE
6'–0"	8'–0"	6'–0 5/8"	7'–8"	5'–8 7/8"
4'–0"	6'–0"	4'–0 5/8"	5'–8"	3'–8 7/8"

2 PVC COATED CHAIN LINK FENCE
ELEVATION

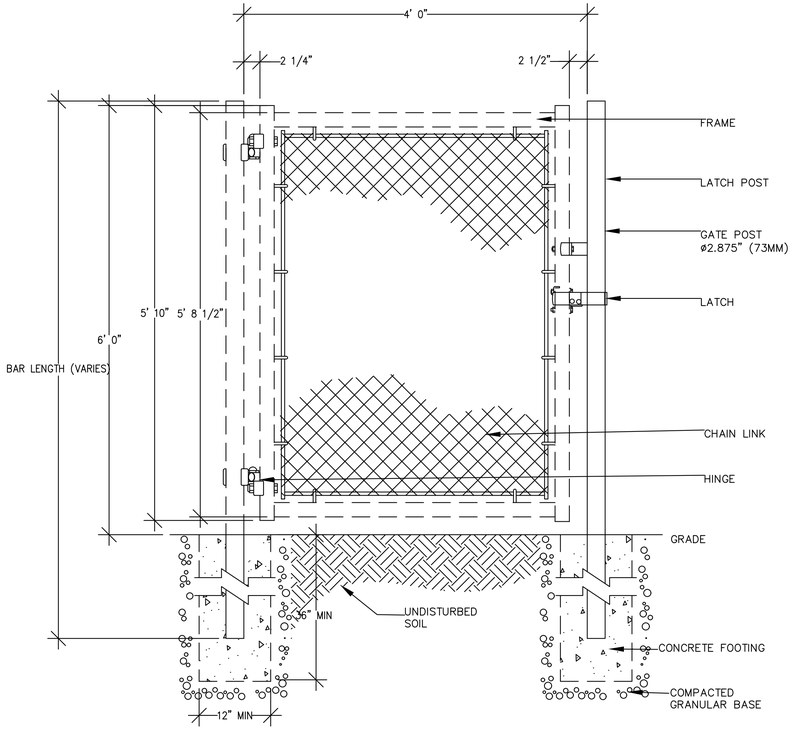
SCALE: N.T.S

PVC COATED CHAIN LINK SINGLE GATE:

SIZE: 6'–0" H x 4' W or

COLOR: ALL PIPE AND CHAIN LINK COMPONENTS TO BE PVC VINYL COATED BLACK. ALL OTHER COMPONENTS TO BE PRIMED AND PAINTED BLACK

1. POST FOUNDATIONS TO BE DESIGNED PER CURRENT FLORIDA BUILDING CODE FOR WIND SPEED AT THE SUBJECT PROPERTY.
2. INSTALL PER MANUFACTURER'S SPECIFICATION. SUBMIT SHOP DRAWING AND COLOR SAMPLES FOR APPROVAL. SIGN FOUNDATION DESIGN PER CONTRACTOR.
3. PROVIDE GALV. LOCKING CLASP, PAINTED BLACK.
4. QUANTITY: AS SHOWN ON PLANS



3 PVC COATED CHAIN LINK GATE
ELEVATION

SCALE: N.T.S

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201,
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

This item has been digitally signed and sealed by Michael D. Spruce, PE (FL PE #52776) on the date noted using a Digital Signature. State of Florida, Professional Engineer, License No. 52276 I am the author of this document. 2023.05.09 07:24:59 -04'00'
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

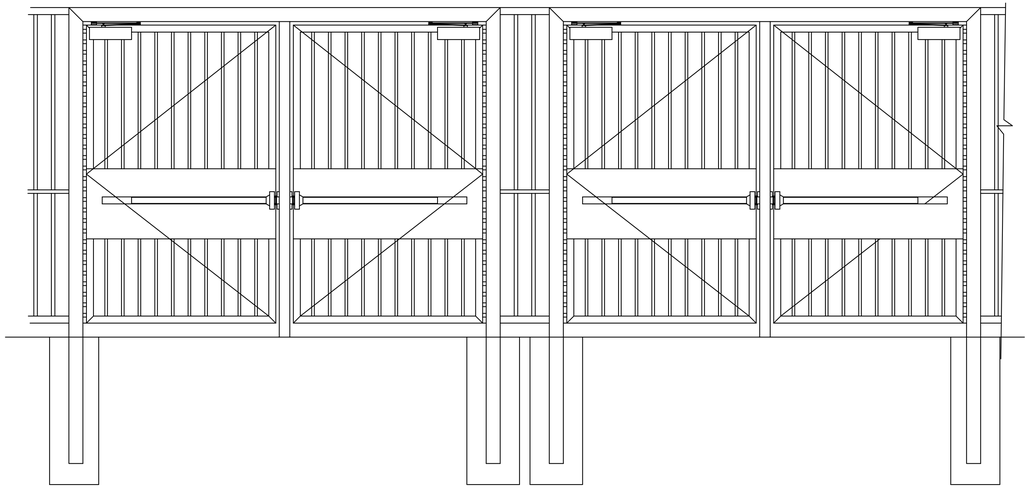
KHA PROJECT	145994004
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	JPL
DRAWN BY	AMS
CHECKED BY	MDS

REGULATING PLAN DETAILS

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS FL
RIVIERA BEACH

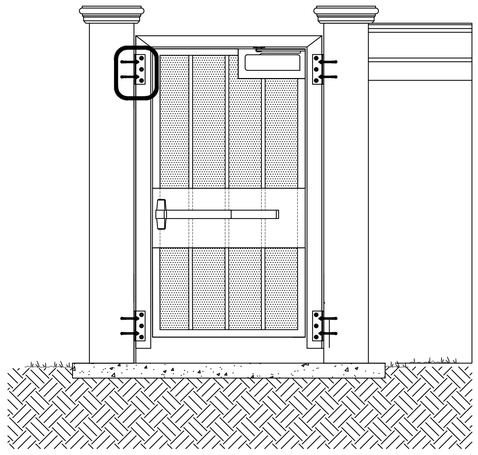
SHEET NUMBER
P-111

Plotted By:Effie, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:P-111 REGULATING PLAN DETAILS May 08, 2023 06:37:32pm K:\bcd_civil\145994004 — safe harbor riviera beach\CAD\Plansheets\C-410 REGULATING PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

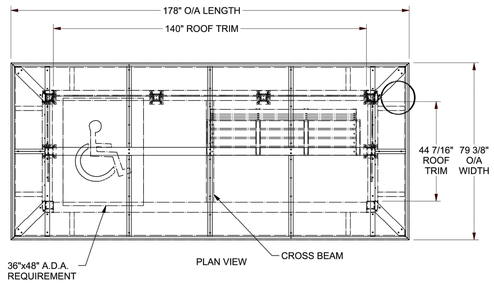


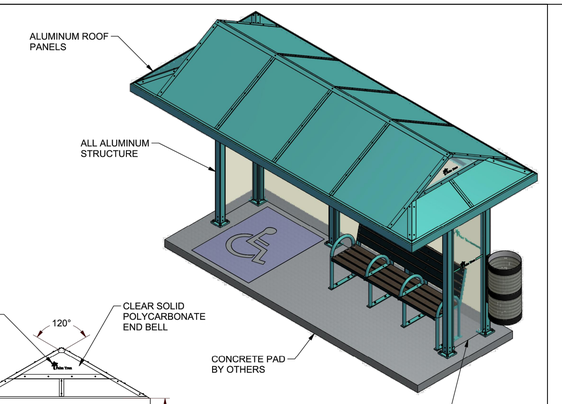
4 ALUMINUM GATE DETAIL (SEE ARCH FOR DETAILS)
ELEVATION

5 SCREEN WALL DETAIL (SEE ARCH FOR DETAILS)
ELEVATION



6 ALUMINUM FENCE DETAIL (SEE ARCH FOR DETAILS)
ELEVATION





NOTES:
-COLOR AS PER CUSTOMER SPEC
-GLASS AS PER WORKORDER
-ALL STAINLESS STEEL FASTENERS USED

Daytech
www.daytechlimited.com

Daytech Limited
70 Disco Road, Suite #101
Toronto ON M9W 1L9
CANADA
Tel: (416) 675-1105
Fax: (416) 675-7183
Toll Free: 1-877-DAY-1907

Daytech Limited will not be held responsible for any measurements or details affecting work other than its own or any errors occuring due to the use of these drawings by parties other than the intended recipients. These drawings remain the property of Daytech Limited, and all rights pertaining to reproduction and dissemination, in part or as a whole, by electronic or any other means, are strictly reserved by Daytech Limited.

No.	Date	Revision Description	By

Title: APC06X14N-PALLADIAN SHELTER-6 x 14 ROOF 2 x 12 FOOTPRINT

Drawn By	Date Drawn	Drawing No.	Project No.
E.P.	9/2/2010	4635-00	Palm Tran
Checked By	Scale		
	1:32		

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

This item has been digitally signed and sealed by Michael D. Spruce, PE (FL PE #52776) on the date noted using a Digital Signature. State of Florida, Professional Engineer, License No. 52776
I am the author of this document.
2023.05.09 07:25:01-04'00'
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

KHA PROJECT	145994004
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	JPL
DRAWN BY	AMS
CHECKED BY	MDS

REGULATING PLAN DETAILS

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

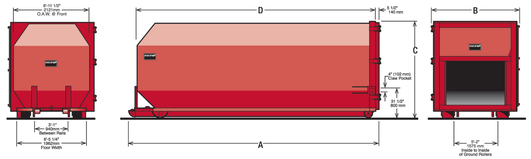
SHEET NUMBER
P-112

Plotted By:Erlie, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:P-112 REGULATING PLAN DETAILS May 08, 2023 08:37:35pm K:\Vcd-civil\145994004 - safe harbor riviera beach\CAD\plansheets\C-410 REGULATING PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

Plotted By:Effie, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:P-113 REGULATING PLAN DETAILS May 08, 2023 08:37:43pm K:\bcd_civ\145994004 — safe harbor riviera beach\CAD\plansets\C-410 REGULATING PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, inc

Octagon and OC Ultra® Compaction Containers

Dimensions and Specifications



Dimensions	A	B	C	D	Capacity	Maximum Force Rate	Weight
RJ-30 OC	16'-11 1/2" (5169mm)	8' (2438mm)	8'-8" (2642mm)	15'-5 1/2" (4712mm)	30 cy. 23 m³	80,000 lbf 355.8 kN	5,500 lbs. 2495 kg
RJ-43 OC	23'-8 1/2" (7226mm)	8' (2438mm)	8'-8" (2642mm)	20'-11" (6375mm)	40 cy. 31 m³	80,000 lbf 355.8 kN	7,200 lbs. 3366 kg
RJ-40 OC	22'-2" (6756mm)	8' (2438mm)	8'-8" (2642mm)	20'-11" (6375mm)	40 cy. 31 m³	80,000 lbf 355.8 kN	6,700 lbs. 3039 kg
RJ-40 OC Ultra	22'-2" (6756mm)	8' (2438mm)	8'-8" (2642mm)	20'-11" (6375mm)	40 cy. 31 m³	70,000 lbf 311.3 kN	5,600 lbs. 2540 kg
RJ-40 OC/XHD	22'-2" (6756mm)	8' (2438mm)	8'-8" (2642mm)	20'-11" (6375mm)	40 cy. 31 m³	120,000 lbf 533.73 kN	7,900 lbs. 3583 kg

Compactor Rental and Leasing Programs Available

For detailed specifications, recommendations, or free economic studies comparing various systems, contact Marathon Customer Care at ***1-800-633-8974***.

RAMJET
Stationary and self-contained compactors.

Authorized Dealer:

Marathon Equipment Company
P.O. Box 1798
Vernon, AL 35592-1798
800.633.8974
www.marathonequipment.com
NJPA Contract #060612-ESG

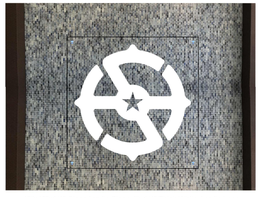
National Waste & Recycling Association — Collect. Recycle. Innovate.
ISRI MEMBER

Environmental Solutions Group — www.doveresg.com

YouTube

Pictures in this literature are illustrative only. Specifications are subject to change without notice in order to accommodate improvements to the equipment. Complies with ANSI standard Z245.2, all applicable OSHA Regulations, and certified under WASTEC's Stationary Compactor Certification Program. Products must be used with safe practice and in accordance with said regulations and standards.

© 2013 Marathon Equipment Company. All rights reserved. Printed in USA. | SWS-M00110-070913



48"x48"x1/4" Clear Acrylic Sign with 1/4" Thick White Acrylic Logo

1/4" Thick Polished Aluminum Letter and Logo

24"x18.75"x1" Sintra(PVC) Signs

18"x12"x.080 Reflective Signs

24"x16"x1/8" Sintra(PVC) Signs

36"x36"x1/4" Max-Metal Signs mounted on 2"x2" Aluminum Posts

42"x72"x1/8" Max-Metal Signs

RJ-450 Compactor

Overview

Perfect for:

- Mini Transfer Stations
- Municipal Recycling Drop-Off Centers
- Distribution Centers
- Manufacturing Facilities

Ram Guide System

The packing ram is supported by specially formulated cast-iron shoes which ride on replaceable wear strips. This exclusive design protects the charge-box floor from the full force of the packing ram, extending its life and dramatically reducing compaction-robbing friction.

Control Station

The RJ-450 features an advanced, simplified three-button control system. It is key-operated, fully automatic, and contained in a weatherproof NEMA 4 enclosure. Connected to the power pack with 13' of conduit, the controls can be installed in the location of your choice for operator convenience.

Why Marathon® Equipment Is the Preferred Choice

Marathon components are selected for longevity and minimum maintenance, with special attention given to the selection of high-duty cycle components. Stress engineering provides the optimum degree of structural integrity. Only the best materials are used and the highest standards of quality are observed in the manufacturing process.

Marathon RJ-450 compactor features an extra-large 60" by 67 ½" clear-top opening that accepts large, bulky items with ease. Ruggedly built to meet the challenge, this unit packs a powerful 56,500 lbs. of crushing force.

The RJ-450HD features an even greater compaction force and faster cycle time, making it ideal for higher volume, heavy-duty industrial applications.

Industrial-Grade Systems

The RJ-450 features industrial-grade electrical and hydraulic systems that are UL and CUL listed. This means trouble-free operation and top performance year after year. The **Marathon** side-mounted power unit combines the convenience and ease-of-maintenance that comes with a remote power pack with the space savings and ease-of-installation of an integrated power pack.

Transfer Station Applications

The RJ-450 can be fitted with a variety of material handling equipment such as chutes, hoppers, and dumpers. The compactor shown is fitted with a side-fed hopper and a ground level dumper. Cart dumpers can be custom built to your specifications to accommodate existing cart systems.

RAMJET

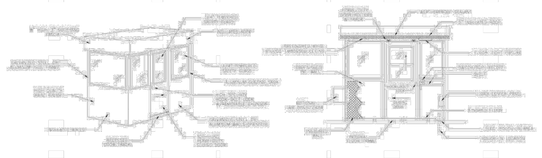
For more information or to order, call 1-800-633-8974 or visit us at **www.marathonequipment.com**

MFI

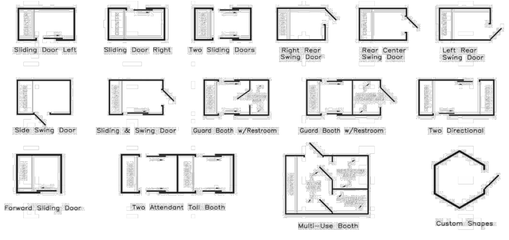
Mardan Fabrication

Tel: (800) 882-5820
Fax (855) 313-4159
www.mardanfab.com

VISTA SERIES



Standard Plans



Roofs and Windows

DESIGN

Shelters shall have provisions to accommodate older adults and people with disabilities to meet ADA Standards. A shelter that is accessible to people in wheelchairs must have a minimum clear floor area that is 30 inches wide and 48 inches deep and entirely within the perimeter of the shelter.[2] Shelter access entry and exit points shall provide a minimum clear width of 4 feet to meet State requirements (ADA requirements are 3 feet). The ADA-mandated B&A area can be extended into clear space within the shelter. However, no obstructions to the 5-foot-by-8-foot area shall be allowed. If a bench is provided within a bus shelter, the 30-inch-by-48-inch clear floor area should be located adjacent to the bench to allow shoulder-to-shoulder seating with a companion for wheelchair users.

There shall be no vertical change in elevation greater than ¼-inch untreated or ½-inch treated to a slope of 1:2 along the walking surfaces between the sidewalk or bus B&A area and the shelter.[6] Changes in level greater than ½-inch must be ramped in compliance with 405 or 406 of the ADA Standards.[5]

Shelters should incorporate seating whenever possible, both to make the service more attractive in general and to serve patrons with mobility impairments (such as older adults, women who are pregnant, persons with temporary injuries, etc.).

Shelters should include route maps and schedules. To the greatest extent possible, these should be easily readable by people in wheelchairs and people who have visual impairments.[5] Shelters can also be designed to incorporate benches and/or leaning rails and may also include transit service literature, telephones, newspaper vending, and trash receptacles. When available right-of-way is limited, it is better to provide a smaller shelter than not to provide a shelter at all.

All pedestrian infrastructure and amenities should be without any sharp edges or protruding elements.[7]

Shelter Dimensions

Dimensions for shelters of various sizes are shown in Figures 3.3.3 through 3.3.10. The size and design of shelters varies with the number of boardings at a bus stop and space availability. Per FAC 14-20.003, the maximum height of a shelter cannot exceed 10 feet[3] for shelters located on the

Figure 3.3.3 | Cross-section of a small bus shelter with a leaning rail and no seating, with typical vertical dimensions.

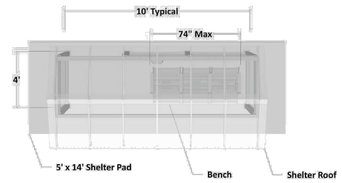


Figure 3.3.4 | Typical dimensions of a small bus shelter with seating.

1 WARNING SIGNS

NO.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201,
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

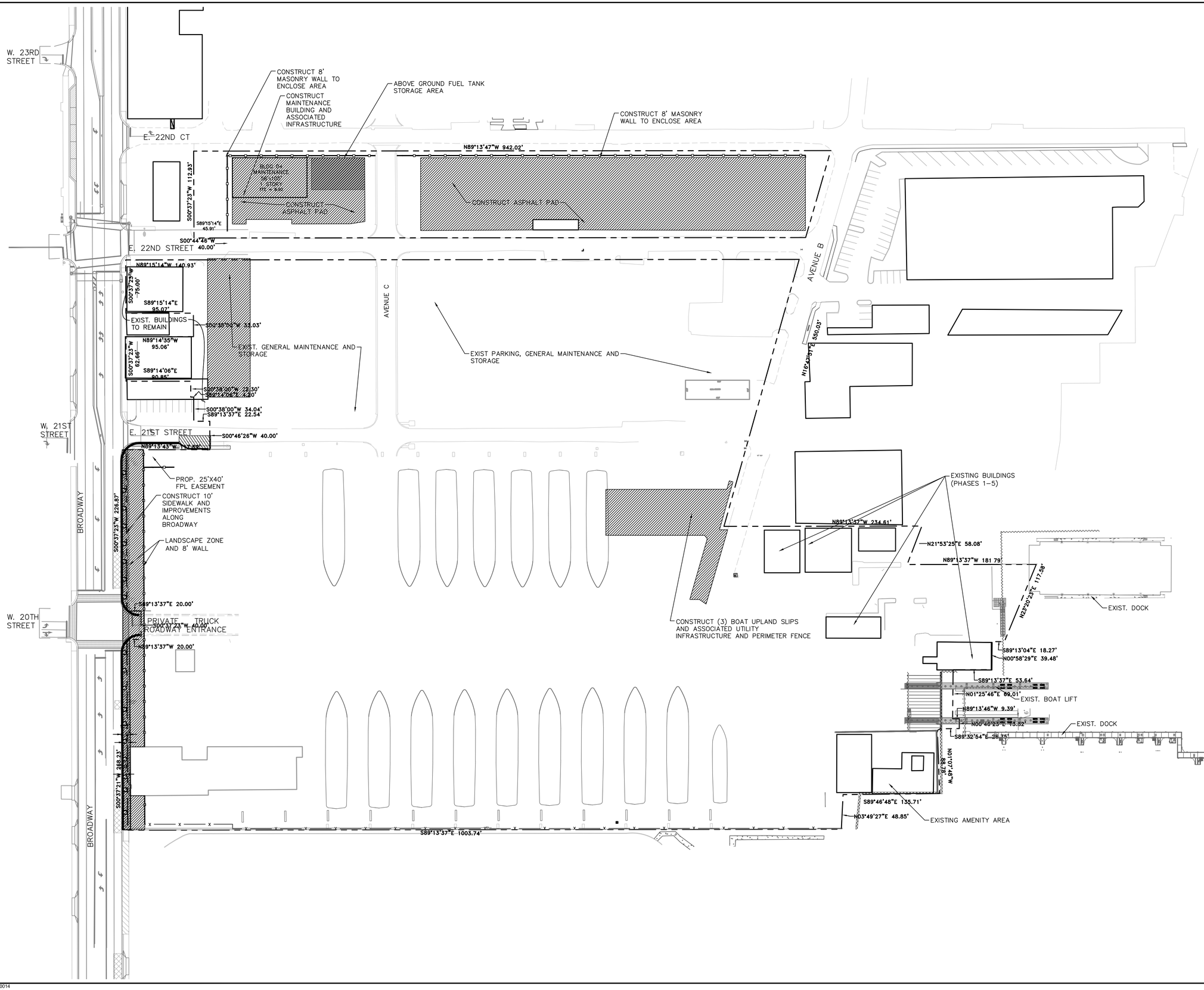
This item has been digitally signed and sealed by Michael D. Spruce, PE (FL PE #52776) on the date noted using a Digital Signature. State of Florida, Professional Engineer, License No. 52776
I am the author of this document.
2023.05.09 07:25:02-04'00'
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

KHA PROJECT 145994004	DESIGNED BY JPL
DATE MAY 2023	DRAWN BY AMS
SCALE AS SHOWN	CHECKED BY MDS

REGULATING PLAN DETAILS

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
P-113



Plotted By:Erik, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-100 PHASE 1 MAP May 08, 2023 08:38:56pm K:\Ved_civ\145994004 - safe harbor riviera beach\CADD\plansheets\C-200 EXISTING CONDITIONS.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

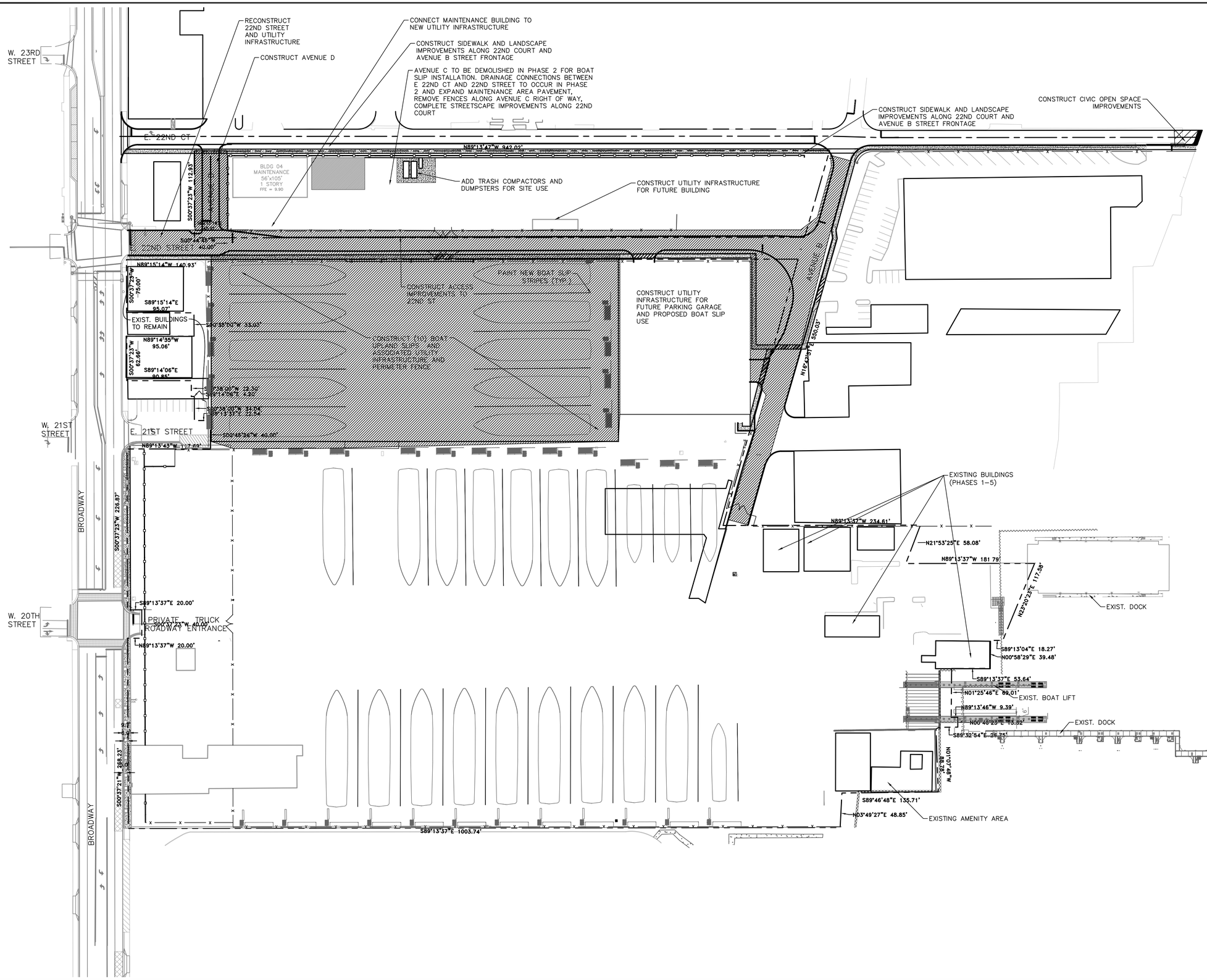
This item has been digitally signed and sealed by Michael D. Spruce, PE (FL PE #52776) on the date noted using a Digital Signature. State of Florida, Professional Engineer, License No. 52776
I am the author of this document. 2023.05.09 07:25:04-04'00'
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

KHA PROJECT	145994004
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	JPL
DRAWN BY	AMS
CHECKED BY	MDS

PHASE 1 MAP

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
C-100



Plotted By:Erfle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-101 PHASE 2 MAP May 08, 2023 06:39:04pm K:\bcd_civil\145994004 - safe harbor riviera beach\CADD\plotsheets\C-200 EXISTING CONDITIONS.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE, SUITE 201,
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
MICHAEL D. SPRUCE, P.E.
FL LICENSE NUMBER 52776
DATE: ———

This item has b
and sealed by
PE (FL PE #52
noted using a t
State of Florida
Engineer, Licer
I am the author
2023.05.09 07:
Printed copies
are not conside
sealed and the
verified on any

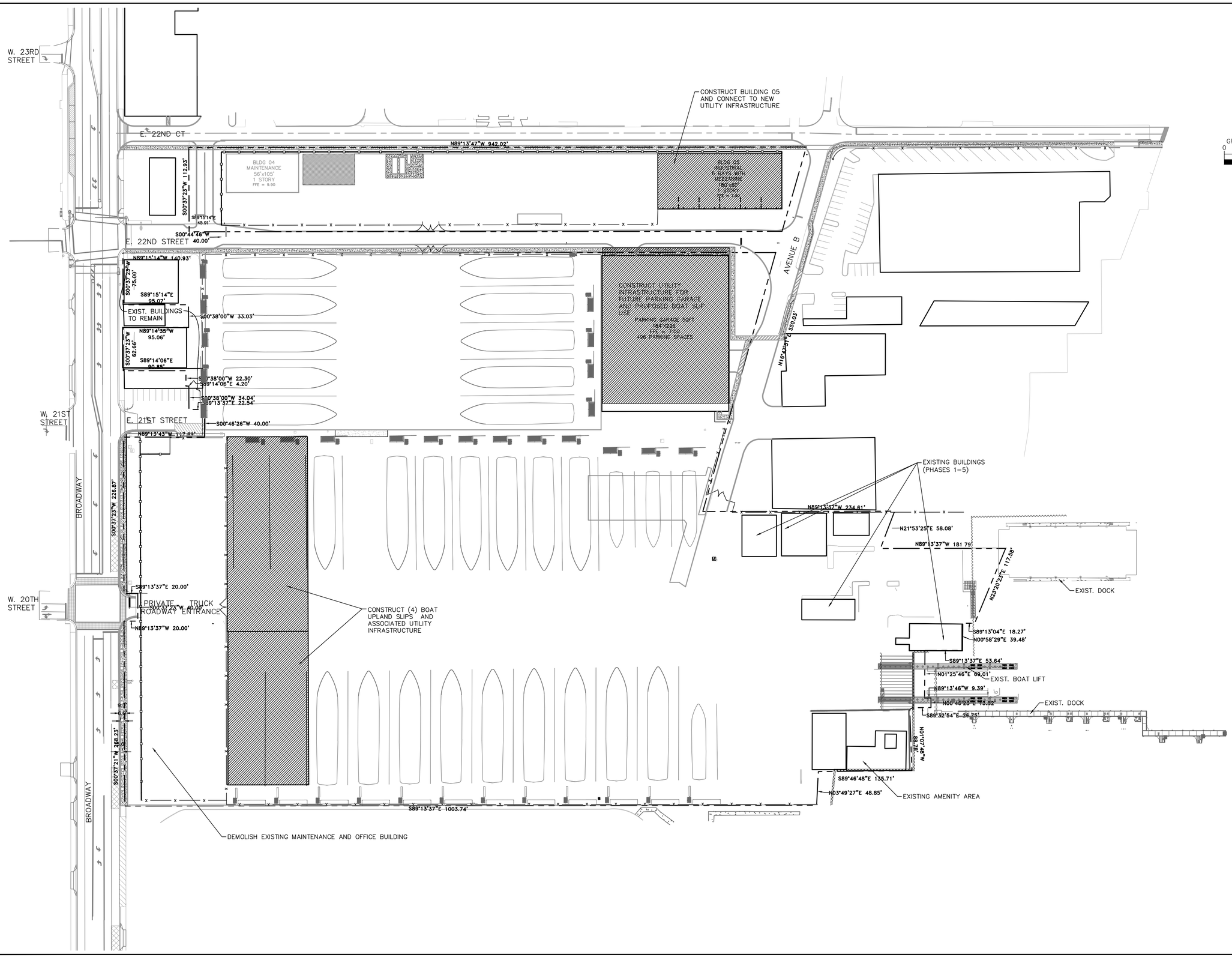
KHA PROJECT 145994004			
DATE MAY 2023	SCALE AS SHOWN	DESIGNED BY JPL	DRAWN BY AMS
			CHECKED BY MDS

PHASE 2 MAP

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS FL
RIVIERA BEACH

SHEET NUMBER
C-101

Plotted By:Erfle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-102 PHASE 3 MAP May 08, 2023 06:39:11pm K:\bcd_civil\145994004 - safe harbor riviera beach\CADD\plansheets\C-200 EXISTING CONDITIONS.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



No.	REVISIONS	DATE	BY

Kimley»Horn

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.

1615 S. CONGRESS AVE, SUITE 201,
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
MICHAEL D. SPRUCE, P.E.
FL LICENSE NUMBER
52776
DATE:

This item has been d
and sealed by Micha
PE (FL PE #52776) v
noted using a Digital
State of Florida, Prof
Engineer, License N
I am the author of thi
2023.05.09 07:25:07
Printed copies of this
not considered signe
and the signature mu
on any electronic cop

KHA PROJECT	145994004
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	JPL
DRAWN BY	AMS
CHECKED BY	MDS

PHASE 3 MAP

SAFE HARBOR RIVIERA BEACH

PREPARED FOR

SAFE HARBOR MARINAS FL

RIVIERA BEACH

SHEET NUMBER
C-102

Plotted By:Erik, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-103 PHASE 4 MAP May 08, 2023 08:39:16pm K:\Ved_civ\145994004 – safe harbor riviera beach\CADD\plansheets\C-200 EXISTING CONDITIONS.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adoption by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

W. 23RD STREET

E. 22ND CT

N89°13'47"W 942.02'

BLDG 04
MAINTENANCE
56'x105'
1 STORY
FFE = 9.90

BLDG 05
INDUSTRIAL
6 BAYS WITH
MEZZANINE
180'x80'
1 STORY
FFE = 7.50

S00°37'23"W 112.83'

S89°15'14"E 45.91'

S00°44'46"W 40.00'

E. 22ND STREET

N89°15'14"W 140.93'

S00°37'23"W 75.00'

S89°15'14"E 95.07'

EXIST. BUILDINGS TO REMAIN

S00°38'00"W 33.03'

N89°14'35"W 95.06'

S00°37'23"W 62.66'

S89°14'06"E 90.85'

S00°38'00"W 22.30'

S89°14'06"E 4.20'

S00°38'00"W 34.04'

S89°13'37"E 22.54'

PARKING GARAGE 50FT
184'X226'
FFE = 7.00
496 PARKING SPACES

AVENUE B

N16°42'37"E 350.03'

W. 21ST STREET

E. 21ST STREET

S00°46'26"W 40.00'

N89°13'43"W 5.00'

CONSTRUCT BUILDING 01&02 AND
ASSOCIATED UTILITY INFRASTRUCTURE

BROADWAY

BLDG 02
TRADE SHOP
AND OFFICE
(1 STORIES)
FF = 15.50

S00°37'23"W 226.87'

S89°13'37"E 30.00'

PRIVATE TRUCK
ROADWAY EASEMENT

N89°13'37"W 30.00'

BLDG 01
SUBCONTRACTOR
AND OFFICE
(1 STORIES)
FF = 15.50

S00°37'21"W 268.23'

CONSTRUCT PALM
TRAN STOP

W. 20TH STREET

CONSTRUCT BLACK VINYL COATED
CHAINLINK FENCE

S89°13'37"E 1003.74'

CONSTRUCT FENCE. CONNECTO TO
EXIST. FENCE AT SOUTH PROPERTY
LINE

EXISTING BUILDINGS
(PHASES 1–5)

N89°13'37"W 234.61'

N21°53'25"E 58.08'

N89°13'37"W 181.79'

N23°20'23"E 117.58'

EXIST. DOCK

S89°13'04"E 18.27'

N00°58'29"E 39.48'

S89°13'37"E 53.64'

N01°25'46"E 89.01'

EXIST. BOAT LIFT

N89°13'46"W 9.39'

N00°46'25"E 75.52'

EXIST. DOCK

S89°32'54"E 26.75'

PRIVATE
BLDG 07

COVERED
PORCH &
AWNING
AREA

ROOF
35'x20'

W.P.E.D.I.O.N

S89°46'48"E 135.71'

N03°49'27"E 48.85'

CONSTRUCT CREW AREA AND CONNECT
TO EXIST UTILITY INFRASTRUCTURE.
CONSTRUCT SECURITY FENCE, TIE INTO
SOUTH FENCE

NORTH

GRAPHIC SCALE IN FEET
0 30 60 120

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

This item has been digitally signed and sealed by Michael D. Spruce, PE (FL PE #52776) on the date noted using a Digital Signature.
State of Florida, Professional Engineer, License No. 52776
I am the author of this document.
2023.05.09 07:25:09-04'00'
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

KHA PROJECT 145994004	SCALE AS SHOWN	DESIGNED BY JPL
DATE MAY 2023		DRAWN BY AMS
		CHECKED BY MDS

PHASE 4 MAP

SAFE HARBOR RIVIERA BEACH

PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
C-103

Plotted By:Erfin, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-110 KEY MAP May 08, 2023 - 06:39:23pm K:\ord_civil\145994004 — safe harbor riviera beach\CADD\sheets\C-200 EXISTING CONDITIONS.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

W. 23RD STREET

Sheet Number
C-200
C-300
C-500
C-600

Sheet Number
C-100
C-201
C-301
C-501
C-504
C-601

E. 22ND CT

N89°13'47"W 942.02'

BLDG 04
MAINTENANCE
56'x105'
1 STORY
FFE = 9.90

BLDG 05
INDUSTRIAL
6 BAYS WITH
MEZZANINE
180'x80'
1 STORY
FFE = 7.50

S00°37'23"W 112.83'

S89°15'14"E 45.91'

S00°44'46"W

E. 22ND STREET 40.00'

N89°15'14"W 140.93'

S00°37'23"W 75.00'

S89°15'14"E 95.07'

EXIST. BUILDINGS TO REMAIN

S90°38'00"W 33.03'

PROPOSED (10) UPLAND BOAT SLIPS

N89°14'35"W 95.06'

S00°37'23"W 82.66'

S89°14'06"E 90.85'

S90°38'00"W 22.30'

N89°14'06"E 4.20'

S00°38'00"W 24.04'

N89°13'37"E 22.94'

PARKING GARAGE 50FT
184'X226'
FFE = 7.00
496 PARKING SPACES

AVENUE B

N16°29'19"E 580.63'

W. 21ST STREET

E. 21ST STREET

S00°46'26"W 40.00'

N89°13'43"E 147.03'

BROADWAY

S00°37'23"W 226.87'

BLDG 02
TRADE SHOP
AND OFFICE
(3 STORIES)
FFE = 10.10

S89°13'37"E 20.00'

W. 20TH STREET

PRIVATE TRUCK ROADWAY ENTRANCE

S00°37'23"W 40.00'

N89°13'37"W 20.00'

BLDG 01
SUBCONTRACTOR
AND OFFICE
(3 STORIES)
FFE = 10.60

W 268.23'

PROPOSED (4) BOAT UPLAND SLIPS

S89°13'37"E 1003.74'

N89°13'37"W 234.61'

N21°53'25"E 58.08'

N89°13'37"W 181.79'

N25°20'23"E 117.58'

AREA NOT WITHIN PROJECT LIMITS

S89°13'04"E 18.27'

N00°58'29"E 39.48'

S89°13'37"E 53.64'

N01°25'46"E 69.01'

N89°13'46"W 9.39'

N00°46'29"E 18.82'

S89°32'54"E 26.76'

COVERED PRIVATE AMENITY AREA

PRIVATE BLDG 07

COVERED

POOL 35'x20'

N01°07'46"W 82.78'

S89°46'48"E 135.71'

N03°49'27"E 48.85'

Sheet Number
C-202
C-302
C-502
C-602

Sheet Number
C-203
C-303
C-503
C-603

NORTH

GRAPHIC SCALE IN FEET
0 30 60 120

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S CONGRESS AVE, SUITE 201,
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

This item has been digitally signed and sealed by Michael D. Spruce, PE (FL PE #52776) on the date noted using a Digital Signature. State of Florida, Professional Engineer, License No. 52776
I am the author of this document.
2023.05.09 07:25:10-04'00'
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

KHA PROJECT	145994004
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	JPL
DRAWN BY	AMS
CHECKED BY	MDS

KEY MAP

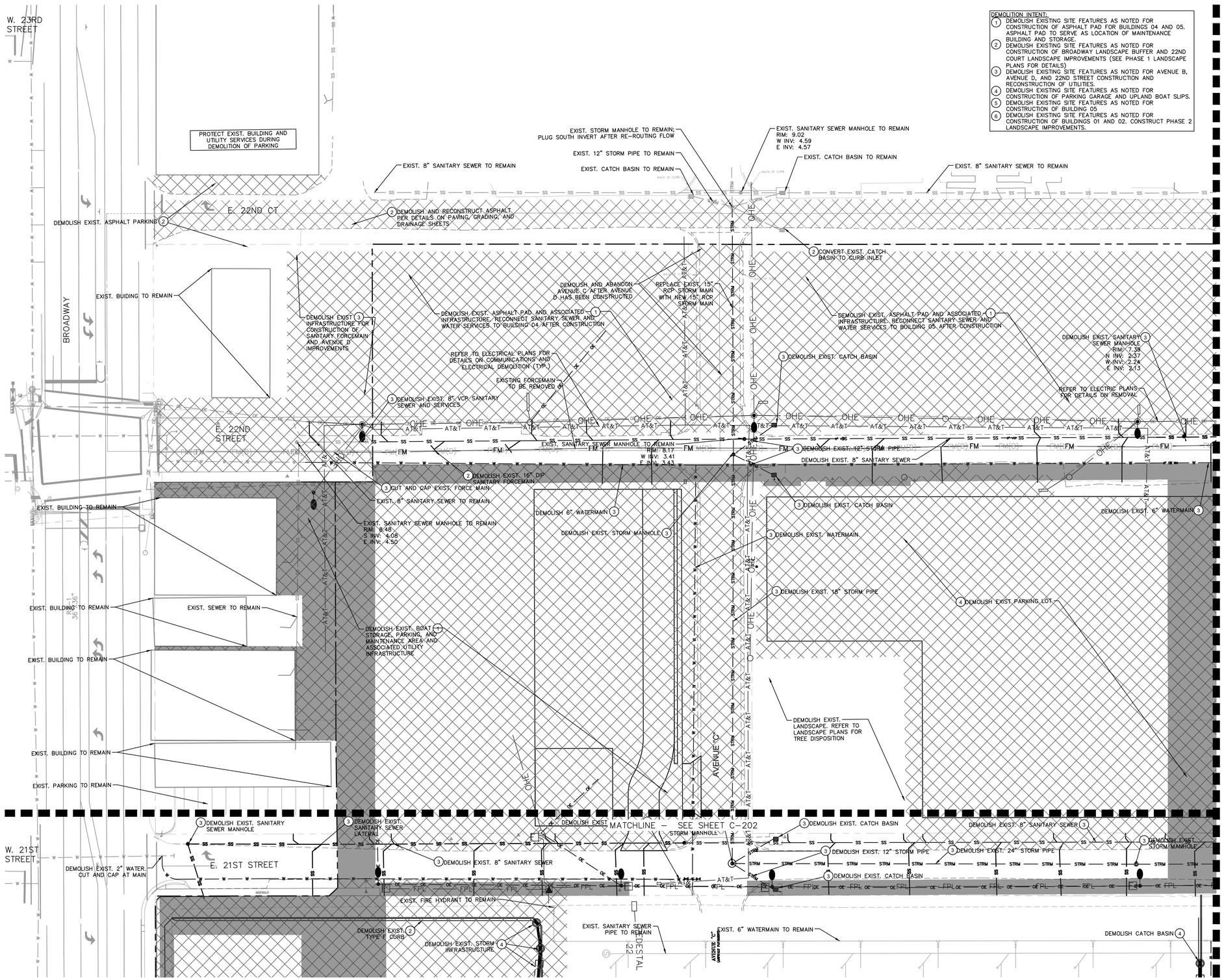
SAFE HARBOR RIVIERA BEACH

PREPARED FOR
SAFE HARBOR MARINAS

RIVIERA BEACH FL

SHEET NUMBER
C-110

Plotted By:Erika, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-200 DEMOLITION PLAN May 08, 2023 06:40:39pm K:\bcd_civil\145994004 - safe harbor riviera beach\CAD\Plansheets\C-200 DEMOLITION PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



GRAPHIC SCALE IN FEET
0 15 30 60

NORTH

DEMOLITION INTENT:

1. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR CONSTRUCTION OF ASPHALT PAD FOR BUILDINGS 04 AND 05. ASPHALT PAD TO SERVE AS LOCATION OF MAINTENANCE BUILDING AND STORAGE.
2. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR CONSTRUCTION OF BROADWAY LANDSCAPE BUFFER AND 22ND COURT LANDSCAPE IMPROVEMENTS (SEE PHASE 1 LANDSCAPE PLANS FOR DETAILS)
3. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR AVENUE B, AVENUE D, AND 22ND STREET CONSTRUCTION AND RECONSTRUCTION OF UTILITIES.
4. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR CONSTRUCTION OF PARKING GARAGE AND UPLAND BOAT SLIPS.
5. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR CONSTRUCTION OF BUILDING 05
6. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR CONSTRUCTION OF BUILDINGS 01 AND 02. CONSTRUCT PHASE 2 LANDSCAPE IMPROVEMENTS.

LEGEND

- PROPERTY LINE
- EXISTING SANITARY LINE
- EXISTING UNDERGROUND ELECTRICAL
- EXISTING WATER
- EXISTING STORM
- EXISTING GAS
- EXISTING TELEPHONE
- EXISTING OVERHEAD ELECTRIC
- EXISTING LANDSCAPE
- EXISTING SEWER TO BE DEMOLISHED
- EXISTING WATER TO BE DEMOLISHED
- EXISTING STORM TO BE DEMOLISHED
- EXISTING UNDERGROUND ELECTRICAL TO BE DEMOLISHED
- EXISTING GAS TO BE DEMOLISHED
- EXISTING TELEPHONE TO BE DEMOLISHED
- EXISTING OVERHEAD ELECTRIC TO BE DEMOLISHED
- EXISTING LANDSCAPE TO BE REMOVED (SEE LANDSCAPE PLANS FOR DETAILS)
- MILL AND RESURFACE
- REMOVE EXISTING ASPHALT
- PROPOSED PERVIOUS CONCRETE
- 30.00 EXISTING ELEVATION

DEMOLITION NOTES

1. ANY ITEMS TO REMAIN THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED TO THE EXISTING CONDITION OR BETTER AT THE CONTRACTOR'S EXPENSE.
2. REFER TO LANDSCAPE PLANS FOR TREE REMOVAL, RELOCATION, AND PROTECTION INFORMATION. ANY AREAS FOR LANDSCAPING SHALL HAVE ALL BASE AND SUBGRADE MATERIAL REMOVED TO A DEPTH OF 3 FEET.
3. ALL VALVE BOXES, MANHOLES, CATCH BASINS, AND OTHER ITEMS TO REMAIN SHALL BE ADJUSTED TO PROPOSED GRADE.
4. THE INTENT OF THE DEMOLITION PLAN IS TO DEPICT EXISTING FEATURES THAT ENCUMBER THE PROPOSED CONSTRUCTION AREA AND ARE SCHEDULED FOR REMOVAL. SOME INCIDENTAL ITEMS MAY HAVE BEEN INADVERTENTLY OMITTED FROM THE PLAN. THE CONTRACTOR IS ENCOURAGED TO THOROUGHLY INSPECT THE SITE AS WELL AS REVIEW THE PLANS AND SPECIFICATIONS PRIOR TO SUBMITTING PRICING. CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR INCIDENTAL ITEMS NOT SHOWN ON THIS DEMOLITION PLAN.
5. THIS DEMOLITION PLAN IS BASED ON AVAILABLE UTILITY INFORMATION AND MAY OR MAY NOT BE ALL INCLUSIVE FOR THIS SITE. ANY UTILITIES ENCOUNTERED DURING DEMOLITION THAT ARE NOT DEPICTED/ADDRESSED ON THIS DRAWING SHOULD BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER IMMEDIATELY.
6. CONTRACTOR IS REQUIRED TO OBTAIN ALL DEMOLITION AND DEWATERING PERMITS, IF APPLICABLE.
7. ALL FEATURES IDENTIFIED ON THIS PLAN WHICH ARE LISTED TO BE DEMOLISHED ARE TO BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER.
8. CONTRACTOR SHALL LIMIT ALL DEMOLITION ACTIVITIES TO THOSE AREAS DELINEATED ON THE CONSTRUCTION DRAWINGS UNLESS OTHERWISE DIRECTED BY THE DEVELOPER OR AS REQUIRED FOR CONSTRUCTION OF IMPROVEMENTS.
9. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING AIRBORNE DUST AND POLLUTANTS BY USING WATER SPRINKLING OR OTHER SUITABLE MEANS OF CONTROL.
10. CONTRACTOR TO USE CARE IN HANDLING DEBRIS FROM SITE TO ENSURE THE SAFETY OF THE PUBLIC. HAUL ROUTE TO BE CLOSELY MONITORED FOR DEBRIS OR MATERIALS TRACKED ONTO ADJOINING ROADWAYS, SIDEWALKS, ETC. ROADWAYS AND WALKWAYS TO BE CLEARED DAILY OR AS NECESSARY TO MAINTAIN PUBLIC SAFETY.
11. ALL ASPHALT TO BE REMOVED SHALL BE SAW CUT ADJACENT TO REMAINING IMPROVEMENTS.
12. WHERE REMAINING, INLETS, MANHOLE COVERS, AND VALVE COVERS TO BE PROTECTED IN PAVEMENT REMOVAL AREAS. CONTRACTOR SHALL REPLACE DAMAGED STRUCTURES AT THEIR EXPENSE.
13. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC. AS APPROVED BY THE CITY OF RIVIERA BEACH AND CONSTRUCTION MANAGER.
14. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF EXISTING FACILITIES AND CONSTRUCTION OF NEW FACILITIES. SIGNAGE SHALL BE POSTED TO DIRECT THE PUBLIC TO THE PATH OF TRAVEL.
15. REFER TO THE TOPOGRAPHIC SURVEY FOR ADDITIONAL DETAILS OF EXISTING STRUCTURES, ETC., LOCATED WITHIN THE PROJECT SITE. UNLESS OTHERWISE NOTED, ALL EXISTING BUILDINGS, STRUCTURES, SLABS, CONCRETE, ASPHALT, DEBRIS PILES, SIGNS, AND ALL APPURTENANCES ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR AND PROPERLY DISPOSED OF IN A LEGAL MANNER AS PART OF THIS CONTRACT. SOME ITEMS TO BE REMOVED MAY NOT BE DEPICTED ON THE TOPOGRAPHIC SURVEY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE FULL EXTENT OF ITEMS TO BE REMOVED. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE OWNER PRIOR TO REMOVAL OF SAID ITEMS.
16. CONTRACTOR SHALL COORDINATE THE LIMITS OF UTILITY DEMOLITION WITH PROPOSED PLANS.

MATCHLINE – SEE SHEET C-201

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

This item has been digitally signed and sealed by Michael D. Price, PE (FL PE #52776) on the date noted using a Digital Signature. State of Florida, Professional Engineer, License No.52776
I am the author of this document.
2023.05.09 07:25:12-04'00'
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

KHA PROJECT 145994004
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

DEMOLITION PLAN

SAFE HARBOR RIVIERA BEACH

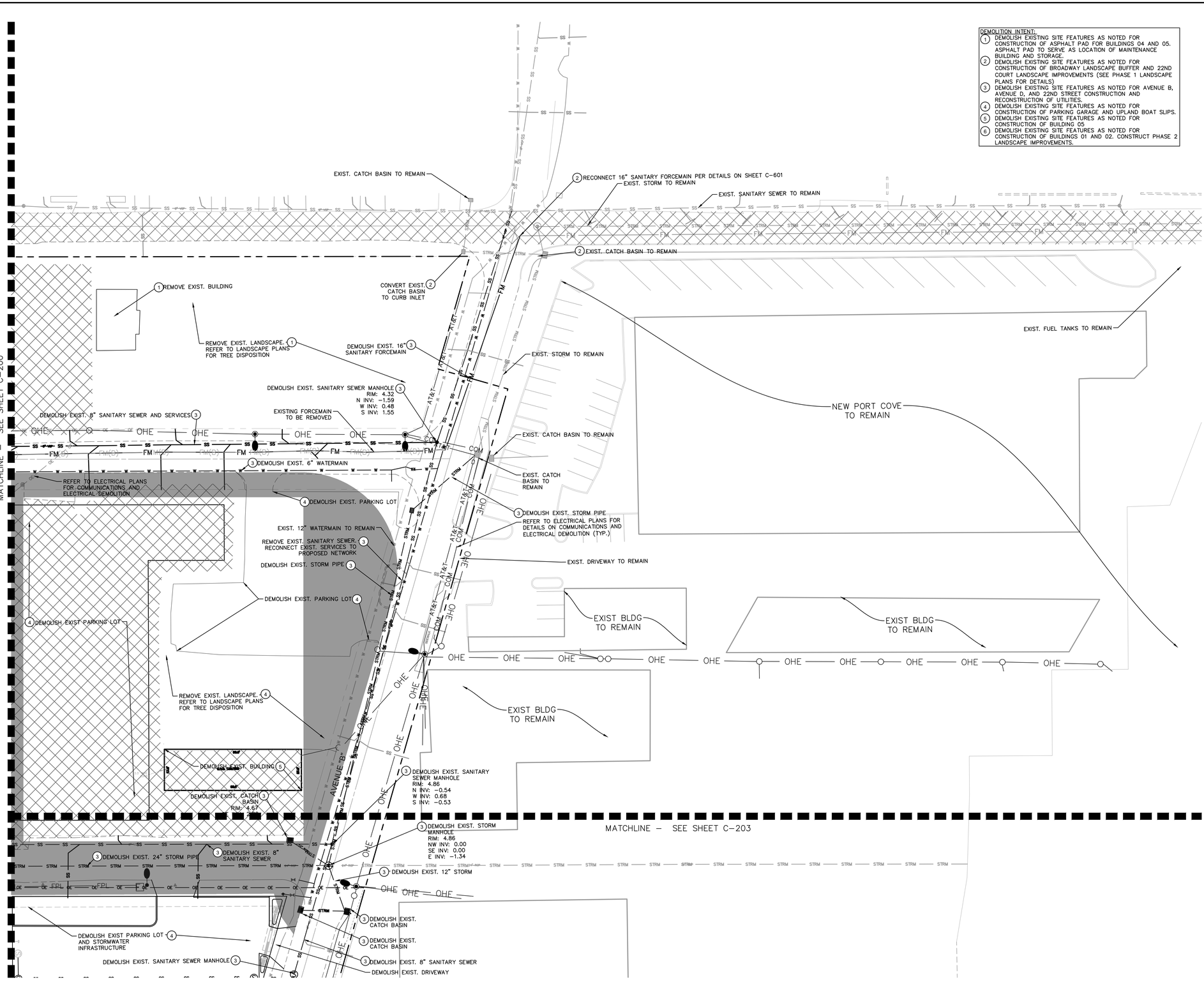
PREPARED FOR

SAFE HARBOR MARINAS FL

RIVIERA BEACH

SHEET NUMBER
C-200

Plotted By:Erfle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-201 DEMOLITION PLAN May 08, 2023 08:40:47pm K:\Vcd_Civil\145934004 — safe harbor riviera beach\CAD\Plansheets\C-200 DEMOLITION PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



GRAPHIC SCALE IN FEET
0 15 30 60

NORTH

LEGEND

- PROPERTY LINE
- EXISTING SANITARY LINE
- EXISTING UNDERGROUND ELECTRICAL
- EXISTING WATER
- EXISTING STORM
- EXISTING GAS
- EXISTING TELEPHONE
- EXISTING OVERHEAD ELECTRIC
- EXISTING LANDSCAPE
- EXISTING SEWER TO BE DEMOLISHED
- EXISTING WATER TO BE DEMOLISHED
- EXISTING STORM TO BE DEMOLISHED
- EXISTING UNDERGROUND ELECTRICAL TO BE DEMOLISHED
- EXISTING GAS TO BE DEMOLISHED
- EXISTING TELEPHONE TO BE DEMOLISHED
- EXISTING OVERHEAD ELECTRIC TO BE DEMOLISHED
- EXISTING LANDSCAPE TO BE REMOVED (SEE LANDSCAPE PLANS FOR DETAILS)
- MILL AND RESURFACE
- REMOVE EXISTING ASPHALT
- PROPOSED PERVIOUS CONCRETE
- 30.00 + EXISTING ELEVATION

DEMOLITION NOTES

1. ANY ITEMS TO REMAIN THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED TO THE EXISTING CONDITION OR BETTER AT THE CONTRACTOR'S EXPENSE.
2. REFER TO LANDSCAPE PLANS FOR TREE REMOVAL, RELOCATION, AND PROTECTION INFORMATION. ANY AREAS FOR LANDSCAPING SHALL HAVE ALL BASE AND SUBGRADE MATERIAL REMOVED TO A DEPTH OF 3 FEET.
3. ALL VALVE BOXES, MANHOLES, CATCH BASINS, AND OTHER ITEMS TO REMAIN SHALL BE ADJUSTED TO PROPOSED GRADE.
4. THE INTENT OF THE DEMOLITION PLAN IS TO DEPICT EXISTING FEATURES THAT ENCUMBER THE PROPOSED CONSTRUCTION AREA AND ARE SCHEDULED FOR REMOVAL. SOME INCIDENTAL ITEMS MAY HAVE BEEN INADVERTENTLY OMITTED FROM THE PLAN. THE CONTRACTOR IS ENCOURAGED TO THOROUGHLY INSPECT THE SITE AS WELL AS REVIEW THE PLANS AND SPECIFICATIONS PRIOR TO SUBMITTING PRICING. CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR INCIDENTAL ITEMS NOT SHOWN ON THIS DEMOLITION PLAN.
5. THIS DEMOLITION PLAN IS BASED ON AVAILABLE UTILITY INFORMATION AND MAY OR MAY NOT BE ALL INCLUSIVE FOR THIS SITE. ANY UTILITIES ENCOUNTERED DURING DEMOLITION THAT ARE NOT DEPICTED/ADDRESSED ON THIS DRAWING SHOULD BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER IMMEDIATELY.
6. CONTRACTOR IS REQUIRED TO OBTAIN ALL DEMOLITION AND DEWATERING PERMITS, IF APPLICABLE.
7. ALL FEATURES IDENTIFIED ON THIS PLAN WHICH ARE LISTED TO BE DEMOLISHED ARE TO BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER.
8. CONTRACTOR SHALL LIMIT ALL DEMOLITION ACTIVITIES TO THOSE AREAS DELINEATED ON THE CONSTRUCTION DRAWINGS UNLESS OTHERWISE DIRECTED BY THE DEVELOPER OR AS REQUIRED FOR CONSTRUCTION OF IMPROVEMENTS.
9. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING AIRBORNE DUST AND POLLUTANTS BY USING WATER SPRINKLING OR OTHER SUITABLE MEANS OF CONTROL.
10. CONTRACTOR TO USE CARE IN HANDLING DEBRIS FROM SITE TO ENSURE THE SAFETY OF THE PUBLIC. HAUL ROUTE TO BE CLOSELY MONITORED FOR DEBRIS OR MATERIALS TRACKED ONTO ADJOINING ROADWAYS, SIDEWALKS, ETC. ROADWAYS AND WALKWAYS TO BE CLEARED DAILY OR AS NECESSARY TO MAINTAIN PUBLIC SAFETY.
11. ALL ASPHALT TO BE REMOVED SHALL BE SAW CUT ADJACENT TO REMAINING IMPROVEMENTS.
12. WHERE REMAINING, INLETS, MANHOLE COVERS, AND VALVE COVERS TO BE PROTECTED IN PAVEMENT REMOVAL AREAS. CONTRACTOR SHALL REPLACE DAMAGED STRUCTURES AT THEIR EXPENSE.
13. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC. AS APPROVED BY THE CITY OF RIVIERA BEACH AND CONSTRUCTION MANAGER.
14. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF EXISTING FACILITIES AND CONSTRUCTION OF NEW FACILITIES. SIGNAGE SHALL BE POSTED TO DIRECT THE PUBLIC TO THE PATH OF TRAVEL.
15. REFER TO THE TOPOGRAPHIC SURVEY FOR ADDITIONAL DETAILS OF EXISTING STRUCTURES, ETC., LOCATED WITHIN THE PROJECT SITE. UNLESS OTHERWISE NOTED, ALL EXISTING BUILDINGS, STRUCTURES, SLABS, CONCRETE, ASPHALT, DEBRIS PILES, SIGNS, AND ALL APPURTENANCES ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR AND PROPERLY DISPOSED OF IN A LEGAL MANNER AS PART OF THIS CONTRACT. SOME ITEMS TO BE REMOVED MAY NOT BE DEPICTED ON THE TOPOGRAPHIC SURVEY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE FULL EXTENT OF ITEMS TO BE REMOVED. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE OWNER PRIOR TO REMOVAL OF SAID ITEMS.
16. CONTRACTOR SHALL COORDINATE THE LIMITS OF UTILITY DEMOLITION WITH PROPOSED PLANS.

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

This item has been digitally signed and sealed by Michael D. Spruce, PE (FL PE #52776) on the date noted using a Digital Signature. State of Florida Professional Engineer, License No. 52776 I am the author of this document. 2023.05.09 07:25:14-04'00'
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

KHA PROJECT	145934004
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	JPL
DRAWN BY	AMS
CHECKED BY	MDS

SAFE HARBOR RIVIERA BEACH

PREPARED FOR

SAFE HARBOR MARINAS

RIVIERA BEACH FL

DEMOLITION PLAN

SHEET NUMBER
C-201

MATCHLINE – SEE SHEET C-200

GRAPHIC SCALE IN FEET
0 15 30 60

NORTH

W. 21ST STREET

E. 21ST STREET

W. 20TH STREET

BROADWAY

AVENUE "C"

22ND COURT

20TH STREET (ASPHALT PAVEMENT)

DEMOLISH EXIST. SANITARY SEWER MANHOLE (3)

DEMOLISH EXIST. SANITARY SEWER LATERAL (3)

DEMOLISH EXIST. 2" WATER (3)

DEMOLISH EXIST. STORM MANHOLE (3)

DEMOLISH EXIST. CATCH BASIN (3)

DEMOLISH EXIST. 8" SANITARY SEWER (3)

DEMOLISH EXIST. 12" STORM PIPE (3)

DEMOLISH EXIST. 24" STORM PIPE (3)

DEMOLISH EXIST. STORM MANHOLE (3)

DEMOLISH EXIST. 8" SANITARY SEWER (3)

DEMOLISH EXIST. 2" WATER CUT AND CAP AT MAIN

DEMOLISH EXIST. CATCH BASIN (3)

EXIST. FIRE HYDRANT TO REMAIN

DEMOLISH EXIST. TYPE F CURB (2)

DEMOLISH EXIST. STORM INFRASTRUCTURE (4)

EXIST. SANITARY SEWER PIPE TO REMAIN

EXIST. 6" WATERMAIN TO REMAIN

DEMOLISH CATCH BASIN (4)

EXIST. SANITARY SEWER LATERAL TO REMAIN (TYP.)

DEMOLISH 18" HDPE STORM PIPE (4)

DEMOLISH MANHOLE (4)

DEMOLISH EXIST. PARKING LOT (2)

DEMOLISH EXIST. TYPE F CURB (4)

DEMOLISH EXIST. STORM PIPE AND EXFILTRATION TRENCH (4)

REMOVE EXIST. OVERHEAD ELECTRIC

DEMOLISH EXIST. CATCH BASIN (4)

REFER TO ELECTRIC PLANS FOR DETAILS ON REMOVAL

REFER TO ELECTRIC PLANS FOR DETAILS ON REMOVAL

DEMOLISH EXIST. CURB AND RECONSTRUCT PER DETAILS ON PAVING, GRADING, AND DRAINAGE SHEETS (6)

EXIST FIRE HYDRANT TO REMAIN

DEMOLISH EXIST. LIFT STATION (2)

REMOVE EXIST. FORCE MAIN

DEMOLISH EXIST. BUILDING (2)

DEMOLISH EXIST. FORCE MAIN (2)

DEMOLISH EXIST. BUILDING (2)

DEMOLISH EXIST. BUILDING (5)

15' UTILITY EASEMENT

EXIST. SANITARY SEWER MANHOLE TO REMAIN

EXIST. SANITARY SEWER TO REMAIN

15' UTILITY EASEMENT

EXIST. SANITARY SEWER LATERAL TO REMAIN (TYP.)

UNKNOWN

MATCHLINE – SEE SHEET C-203

LEGEND

- PROPERTY LINE
- SS — EXISTING SANITARY LINE
- UE — EXISTING UNDERGROUND ELECTRICAL
- W — EXISTING WATER
- STRM — EXISTING STORM
- G — EXISTING GAS
- T — EXISTING TELEPHONE
- OHL — EXISTING OVERHEAD ELECTRIC
- EXISTING LANDSCAPE
- SS — SS — EXISTING SEWER TO BE DEMOLISHED
- W — W — EXISTING WATER TO BE DEMOLISHED
- STRM — EXISTING STORM TO BE DEMOLISHED
- UE — UE — EXISTING UNDERGROUND ELECTRICAL TO BE DEMOLISHED
- G — G — EXISTING GAS TO BE DEMOLISHED
- T — T — EXISTING TELEPHONE TO BE DEMOLISHED
- OHL — OHL — EXISTING OVERHEAD ELECTRIC TO BE DEMOLISHED
- EXISTING LANDSCAPE TO BE REMOVED (SEE LANDSCAPE PLANS FOR DETAILS)
- MILL AND RESURFACE
- REMOVE EXISTING ASPHALT
- PROPOSED PERVIOUS CONCRETE
- 30.00 + EXISTING ELEVATION

DEMOLITION NOTES

1. ANY ITEMS TO REMAIN THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED TO THE EXISTING CONDITION OR BETTER AT THE CONTRACTOR'S EXPENSE.
2. REFER TO LANDSCAPE PLANS FOR TREE REMOVAL, RELOCATION, AND PROTECTION INFORMATION. ANY AREAS FOR LANDSCAPING SHALL HAVE ALL BASE AND SUBGRADE MATERIAL REMOVED TO A DEPTH OF 3 FEET.
3. ALL VALVE BOXES, MANHOLES, CATCH BASINS, AND OTHER ITEMS TO REMAIN SHALL BE ADJUSTED TO PROPOSED GRADE.
4. THE INTENT OF THE DEMOLITION PLAN IS TO DEPICT EXISTING FEATURES THAT ENCUMBER THE PROPOSED CONSTRUCTION AREA AND ARE SCHEDULED FOR REMOVAL. SOME INCIDENTAL ITEMS MAY HAVE BEEN INADVERTENTLY OMITTED FROM THE PLAN. THE CONTRACTOR IS ENCOURAGED TO THOROUGHLY INSPECT THE SITE AS WELL AS REVIEW THE PLANS AND SPECIFICATIONS PRIOR TO SUBMITTING PRICING. CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR INCIDENTAL ITEMS NOT SHOWN ON THIS DEMOLITION PLAN.
5. THIS DEMOLITION PLAN IS BASED ON AVAILABLE UTILITY INFORMATION AND MAY OR MAY NOT BE ALL INCLUSIVE FOR THIS SITE. ANY UTILITIES ENCOUNTERED DURING DEMOLITION THAT ARE NOT DEPICTED/ADDRESSED ON THIS DRAWING SHOULD BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER IMMEDIATELY.
6. CONTRACTOR IS REQUIRED TO OBTAIN ALL DEMOLITION AND DEWATERING PERMITS, IF APPLICABLE.
7. ALL FEATURES IDENTIFIED ON THIS PLAN WHICH ARE LISTED TO BE DEMOLISHED ARE TO BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER.
8. CONTRACTOR SHALL LIMIT ALL DEMOLITION ACTIVITIES TO THOSE AREAS DELINEATED ON THE CONSTRUCTION DRAWINGS UNLESS OTHERWISE DIRECTED BY THE DEVELOPER OR AS REQUIRED FOR CONSTRUCTION OF IMPROVEMENTS.
9. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING AIRBORNE DUST AND POLLUTANTS BY USING WATER SPRINKLING OR OTHER SUITABLE MEANS OF CONTROL.
10. CONTRACTOR TO USE CARE IN HANDLING DEBRIS FROM SITE TO ENSURE THE SAFETY OF THE PUBLIC. HAUL ROUTE TO BE CLOSELY MONITORED FOR DEBRIS OR MATERIALS TRACKED ONTO ADJOINING ROADWAYS, SIDEWALKS, ETC. ROADWAYS AND WALKWAYS TO BE CLEARED DAILY OR AS NECESSARY TO MAINTAIN PUBLIC SAFETY.
11. ALL ASPHALT TO BE REMOVED SHALL BE SAW CUT ADJACENT TO REMAINING IMPROVEMENTS.
12. WHERE REMAINING, INLETS, MANHOLE COVERS, AND VALVE COVERS TO BE PROTECTED IN PAVEMENT REMOVAL AREAS. CONTRACTOR SHALL REPLACE DAMAGED STRUCTURES AT THEIR EXPENSE.
13. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC. AS APPROVED BY THE CITY OF RIVIERA BEACH AND CONSTRUCTION MANAGER.
14. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF EXISTING FACILITIES AND CONSTRUCTION OF NEW FACILITIES. SIGNAGE SHALL BE POSTED TO DIRECT THE PUBLIC TO THE PATH OF TRAVEL.
15. REFER TO THE TOPOGRAPHIC SURVEY FOR ADDITIONAL DETAILS OF EXISTING STRUCTURES, ETC., LOCATED WITHIN THE PROJECT SITE. UNLESS OTHERWISE NOTED, ALL EXISTING BUILDINGS, STRUCTURES, SLABS, CONCRETE, ASPHALT, DEBRIS PILES, SIGNS, AND ALL APPURTENANCES ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR AND PROPERLY DISPOSED OF IN A LEGAL MANNER AS PART OF THIS CONTRACT. SOME ITEMS TO BE REMOVED MAY NOT BE DEPICTED ON THE TOPOGRAPHIC SURVEY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE FULL EXTENT OF ITEMS TO BE REMOVED. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE OWNER PRIOR TO REMOVAL OF SAID ITEMS.
16. CONTRACTOR SHALL COORDINATE THE LIMITS OF UTILITY DEMOLITION WITH PROPOSED PLANS.

DEMOLITION INTENT:
1. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR CONSTRUCTION OF ASPHALT PAD FOR BUILDINGS 04 AND 05. ASPHALT PAD TO SERVE AS LOCATION OF MAINTENANCE BUILDING AND STORAGE.
2. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR CONSTRUCTION OF BROADWAY LANDSCAPE BUFFER AND 22ND COURT LANDSCAPE IMPROVEMENTS (SEE PHASE 1 LANDSCAPE PLANS FOR DETAILS)
3. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR AVENUE B, AVENUE D, AND 22ND STREET CONSTRUCTION AND RECONSTRUCTION OF UTILITIES.
4. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR CONSTRUCTION OF PARKING GARAGE AND UPLAND BOAT SLIPS.
5. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR CONSTRUCTION OF BUILDING 05
6. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR CONSTRUCTION OF BUILDINGS 01 AND 02. CONSTRUCT PHASE 2 LANDSCAPE IMPROVEMENTS.

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.

1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

This item has been digitally signed and sealed by Michael D. Spence, PE (FL PE #52776) on the date noted using a digital signature. State of Florida, Professional Engineer, License No.52776
I am the author of this document. 2023.05.09 07:25:15-04'00'
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

KHA PROJECT 145994004	SCALE AS SHOWN	DESIGNED BY JPL
DATE MAY 2023	DRAWN BY AMS	CHECKED BY MDS

DEMOLITION PLAN

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
C-202

Plotted By:Erfle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-202 DEMOLITION PLAN May 08, 2023 05:40:54pm K:\bcd_civil\145994004 - safe harbor riviera beach\CAD\plansheets\C-200 DEMOLITION PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc

Plotted By:Erika, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-203 DEMOLITION PLAN May 08, 2023 06:41:01pm K:\bcd_civil\145994004 - safe harbor riviera beach\CAD\plansheets\C-200 DEMOLITION PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

MATCHLINE – SEE SHEET C-202

MATCHLINE – SEE SHEET C-201

GRAPHIC SCALE IN FEET
0 15 30 60

NORTH

DEMOLITION INTENT:
1. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR CONSTRUCTION OF ASPHALT PAD FOR BUILDINGS 04 AND 05. ASPHALT PAD TO SERVE AS LOCATION OF MAINTENANCE BUILDING AND STORAGE.
2. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR CONSTRUCTION OF BROADWAY LANDSCAPE BUFFER AND 22ND COURT LANDSCAPE IMPROVEMENTS (SEE PHASE 1 LANDSCAPE PLANS FOR DETAILS)
3. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR AVENUE B, AVENUE D, AND 22ND STREET CONSTRUCTION AND RECONSTRUCTION OF UTILITIES.
4. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR CONSTRUCTION OF PARKING GARAGE AND UPLAND BOAT SLIPS.
5. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR CONSTRUCTION OF BUILDING 05
6. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR CONSTRUCTION OF BUILDINGS 01 AND 02. CONSTRUCT PHASE 2 LANDSCAPE IMPROVEMENTS.

LEGEND

- PROPERTY LINE
- EXISTING SANITARY LINE
- EXISTING UNDERGROUND ELECTRICAL
- EXISTING WATER
- EXISTING STORM
- EXISTING GAS
- EXISTING TELEPHONE
- EXISTING OVERHEAD ELECTRIC
- EXISTING LANDSCAPE
- EXISTING SEWER TO BE DEMOLISHED
- EXISTING WATER TO BE DEMOLISHED
- EXISTING STORM TO BE DEMOLISHED
- EXISTING UNDERGROUND ELECTRICAL TO BE DEMOLISHED
- EXISTING GAS TO BE DEMOLISHED
- EXISTING TELEPHONE TO BE DEMOLISHED
- EXISTING OVERHEAD ELECTRIC TO BE DEMOLISHED
- EXISTING LANDSCAPE TO BE REMOVED (SEE LANDSCAPE PLANS FOR DETAILS)
- MILL AND RESURFACE
- REMOVE EXISTING ASPHALT
- PROPOSED PERVIOUS CONCRETE
- 30.00 EXISTING ELEVATION

DEMOLITION NOTES

1. ANY ITEMS TO REMAIN THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED TO THE EXISTING CONDITION OR BETTER AT THE CONTRACTOR'S EXPENSE.
2. REFER TO LANDSCAPE PLANS FOR TREE REMOVAL, RELOCATION, AND PROTECTION INFORMATION. ANY AREAS FOR LANDSCAPING SHALL HAVE ALL BASE AND SUBGRADE MATERIAL REMOVED TO A DEPTH OF 3 FEET.
3. ALL VALVE BOXES, MANHOLES, CATCH BASINS, AND OTHER ITEMS TO REMAIN SHALL BE ADJUSTED TO PROPOSED GRADE.
4. THE INTENT OF THE DEMOLITION PLAN IS TO DEPICT EXISTING FEATURES THAT ENCUMBER THE PROPOSED CONSTRUCTION AREA AND ARE SCHEDULED FOR REMOVAL. SOME INCIDENTAL ITEMS MAY HAVE BEEN INADVERTENTLY OMITTED FROM THE PLAN. THE CONTRACTOR IS ENCOURAGED TO THOROUGHLY INSPECT THE SITE AS WELL AS REVIEW THE PLANS AND SPECIFICATIONS PRIOR TO SUBMITTING PRICING. CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR INCIDENTAL ITEMS NOT SHOWN ON THIS DEMOLITION PLAN.
5. THIS DEMOLITION PLAN IS BASED ON AVAILABLE UTILITY INFORMATION AND MAY OR MAY NOT BE ALL INCLUSIVE FOR THIS SITE. ANY UTILITIES ENCOUNTERED DURING DEMOLITION THAT ARE NOT DEPICTED/ADDRESSED ON THIS DRAWING SHOULD BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER IMMEDIATELY.
6. CONTRACTOR IS REQUIRED TO OBTAIN ALL DEMOLITION AND DEWATERING PERMITS, IF APPLICABLE.
7. ALL FEATURES IDENTIFIED ON THIS PLAN WHICH ARE LISTED TO BE DEMOLISHED ARE TO BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER.
8. CONTRACTOR SHALL LIMIT ALL DEMOLITION ACTIVITIES TO THOSE AREAS DELINEATED ON THE CONSTRUCTION DRAWINGS UNLESS OTHERWISE DIRECTED BY THE DEVELOPER OR AS REQUIRED FOR CONSTRUCTION OF IMPROVEMENTS.
9. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING AIRBORNE DUST AND POLLUTANTS BY USING WATER SPRINKLING OR OTHER SUITABLE MEANS OF CONTROL.
10. CONTRACTOR TO USE CARE IN HANDLING DEBRIS FROM SITE TO ENSURE THE SAFETY OF THE PUBLIC. HAUL ROUTE TO BE CLOSELY MONITORED FOR DEBRIS OR MATERIALS TRACKED ONTO ADJOINING ROADWAYS, SIDEWALKS, ETC. ROADWAYS AND WALKWAYS TO BE CLEARED DAILY OR AS NECESSARY TO MAINTAIN PUBLIC SAFETY.
11. ALL ASPHALT TO BE REMOVED SHALL BE SAW CUT ADJACENT TO REMAINING IMPROVEMENTS.
12. WHERE REMAINING, INLETS, MANHOLE COVERS, AND VALVE COVERS TO BE PROTECTED IN PAVEMENT REMOVAL AREAS. CONTRACTOR SHALL REPLACE DAMAGED STRUCTURES AT THEIR EXPENSE.
13. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC. AS APPROVED BY THE CITY OF RIVIERA BEACH AND CONSTRUCTION MANAGER.
14. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF EXISTING FACILITIES AND CONSTRUCTION OF NEW FACILITIES. SIGNAGE SHALL BE POSTED TO DIRECT THE PUBLIC TO THE PATH OF TRAVEL.
15. REFER TO THE TOPOGRAPHIC SURVEY FOR ADDITIONAL DETAILS OF EXISTING STRUCTURES, ETC., LOCATED WITHIN THE PROJECT SITE. UNLESS OTHERWISE NOTED, ALL EXISTING BUILDINGS, STRUCTURES, SLABS, CONCRETE, ASPHALT, DEBRIS PILES, SIGNS, AND ALL APPURTENANCES ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR AND PROPERLY DISPOSED OF IN A LEGAL MANNER AS PART OF THIS CONTRACT. SOME ITEMS TO BE REMOVED MAY NOT BE DEPICTED ON THE TOPOGRAPHIC SURVEY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE FULL EXTENT OF ITEMS TO BE REMOVED. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE OWNER PRIOR TO REMOVAL OF SAID ITEMS.
16. CONTRACTOR SHALL COORDINATE THE LIMITS OF UTILITY DEMOLITION WITH PROPOSED PLANS.

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

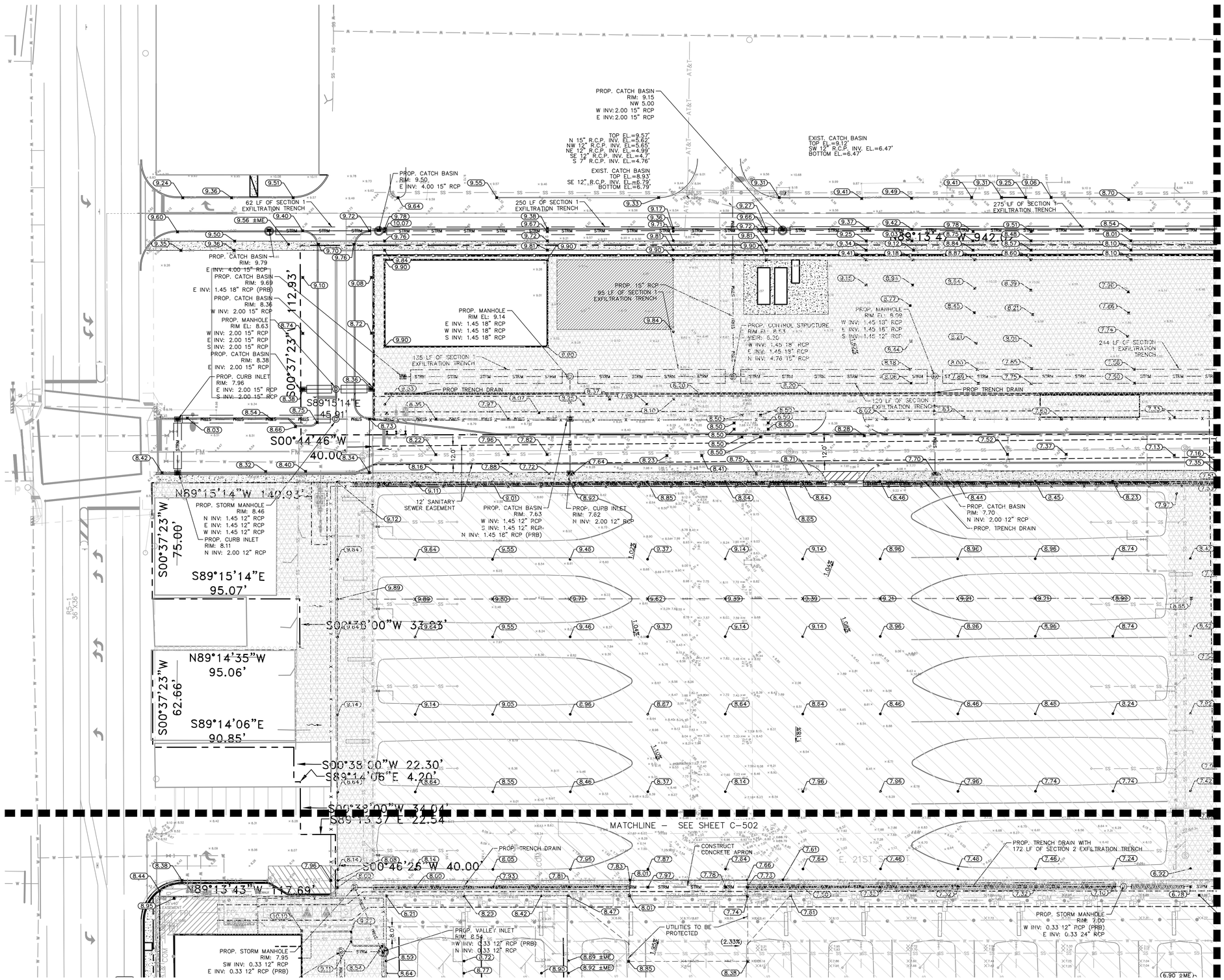
This item has been digitally signed and sealed by Michael D. Spruce, PE (FL PE #52776) on the date noted using a Digital Signature. State of Florida, Professional Engineer, License No. 52776
I am the author of this document.
2023.05.09 07:25:17-04'00'
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

KHA PROJECT 145994004	DATE MAY 2023	SCALE AS SHOWN	DESIGNED BY JPL	DRAWN BY AMS	CHECKED BY MDS

DEMOLITION PLAN

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
C-203



LEGEND

- PROPOSED PERVIOUS CONCRETE
- PROPOSED IMPERVOUS CONCRETE
- PROPERTY LINE
- CENTERLINE OF R/W
- UTILITY CROSSING
- STRM — PROPOSED STORM PIPE
- PROPOSED STORM AREA INLET
- PROPOSED STORM CURB INLET
- PROPOSED STORM MANHOLE
- STRM — EXISTING STORM PIPE
- EXISTING STORM AREA INLET
- EXISTING STORM CURB INLET
- EXISTING STORM MANHOLE
- SS — SS — SANITARY FORCE MAIN PIPE
- SS — SS — SANITARY PIPE
- SANITARY MANHOLE
- FM — FM — FIRE LINE PIPE
- W — W — WATER PIPE
- FIRE HYDRANT
- FIRE DEPARTMENT CONNECTION
- W — W — RECLAIMED WATER PIPE
- IRRIGATION MAIN PIPE
- FO — FO — FIBER OPTIC LINE
- OHL — OHL — OVERHEAD LINE
- T — T — TELEPHONE LINE
- COM — COMMUNICATIONS LINE
- UE — UE — UNDERGROUND ELECTRIC LINE
- FPL — FPL — FPL LINE
- E — ELECTRICAL LINE
- G — G — GAS LINE
- EXISTING UTILITY EASEMENTS
- PROPOSED UTILITY EASEMENTS
- 11.82 PROPOSED SPOT ELEVATION
- 11.82 ±ME MATCH EXISTING ELEVATION
- EXISTING ELEVATION
- FLOW ARROW

PAVING, GRADING AND DRAINAGE NOTES

1. ALL ELEVATIONS ON THE PLANS OR REFERENCED IN THE SPECIFICATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (N.A.V.D. 1988).
2. THE CROSS SLOPE ON ADA ACCESSIBLE ROUTES SHALL NOT EXCEED 2.0%. THE LONGITUDINAL SLOPE ON ADA ACCESSIBLE ROUTES (NOT INCLUDING RAMPS) SHALL NOT EXCEED 5.0%. THE LONGITUDINAL SLOPE FOR RAMPS SHALL NOT EXCEED 1V:12H (8.3%). ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 2.0% IN ANY DIRECTION (INCLUDING DIAGONAL).
3. ALL CATCH BASINS AND DRAINAGE COLLECTION STRUCTURES SHALL BE DESIGNED WITH AN EIGHTEEN INCH (18") VERTICAL SUMP FROM THE INVERT ELEVATION (OR BOTTOM OF BAFFLE) TO THE BOTTOM OF THE STRUCTURE.
4. DRAINAGE STRUCTURES SHALL BE CONSTRUCTED USING U.S. PRECAST (USP) U.S. FOUNDRY (USF) OR FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD (FDOT) PRODUCTS AS SPECIFIED OR APPROVED EQUAL. ALL STORM DRAINAGE STRUCTURES MUST COMPLY WITH CITY OF RIVIERA BEACH DETAILS AND REGULATIONS.
4. ROOF DRAIN CONNECTIONS TO DRAINAGE PIPE SHALL BE AS FOLLOWS:
   A. FOR ADS N-12 CORRUGATED POLYETHYLENE DRAINAGE PIPE USE ADS DUAL WALL FABRICATED REDUCING SADDLE TEE 4"-24" DIAMETER
   B. FOR RCP DRAINAGE PIPE MAKE CONNECTION FDOT INDEX 280, CONCRETE COLLAR FOR JOINING MAINLINE PIPE AND STUB PIPE DETAIL.
   C. NOTIFY CONSULTANT FOR CONNECTION METHOD TO STEEL PIPE.
5. ALL RAMPS SHALL COMPLY WITH FDOT INDEX 522.
6. STORM DRAIN PIPE SHALL BE AS FOLLOWS:
   A. REINFORCED CONCRETE PIPE (RCP) CLASS III PER ASTM C-76 OR HIGH DENSITY POLY-ETHYLENE (HDPE) PIPE FOR 24" OR LESS FOR PIPES AND HP (HIGH PERFORMANCE) STORM PIPE FOR PIPES 30" AND LARGER. ROOF LEADER PIPE MATERIAL SHALL BE PVC SDR-35.
   B. CORRUGATED POLYETHYLENE PIPE PER AASHTO M294 JOINTS SHALL BE WATER TIGHT
   C. ANY STORM PIPE USED MUST BE APPROVED BY LOCAL AUTHORITIES.

CONTRACTOR SHALL SELECT THE MOST ECONOMICAL PRODUCT.

7. CONTRACTOR SHALL CLEAN ALL PROPOSED DRAINAGE STRUCTURES AND PIPES UPON COMPLETION OF CONSTRUCTION.
8. PROPOSED ELEVATIONS OF CURB REPRESENT FACE OF CURB OR EDGE OF PAVEMENT ELEVATIONS UNLESS OTHERWISE NOTED.
9. PROPOSED ELEVATIONS IN ALL PERVIOUS AREAS REPRESENT FINISHED TOP OF SOD/GRASS OR ANY OTHER LANDSCAPING MATERIAL.
10. ALL DRAINAGE STRUCTURES SHALL CONFORM TO THE LATEST FDOT INDEX STANDARDS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
11. MATCH EXISTING GRADES AT TIE-IN LOCATIONS AT PROPERTY LINES.
12. TOP OF LANDSCAPED OR SODDED AREA AGAINST BUILDING SHALL BE MIN 4" BELOW FINISH FLOOR ELEVATON AND AGAINST SIDEWALK SHALL BE MIN. 2" BELOW FINISH GRADE ON THE LOWSIDE. CONTRACTOR SHALL CONFIRM GRADES PRIOR TO INSTALLING LANDSCAPE.

FEMA FLOOD MAP: 12099C0393F
FLOOD ZONE X
100 YEAR FLOOD ELEVATION 6.00 NAVD 1988

PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.52' = (NGVD 1929)

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

Always call 811 two full business days before you dig to have underground utilities located and marked.
Sunshine811.com

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

No.	REVISIONS	DATE	BY

This item has been digitally signed and sealed by Michael D. Spruce, PE (FL PE #52776) on the date noted using a Digital Signature. State of Florida, Professional Engineer, License No. 52776 and the author of this document. 2023.05.09 07:25:19-04'00'. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

KHA PROJECT 145994004
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

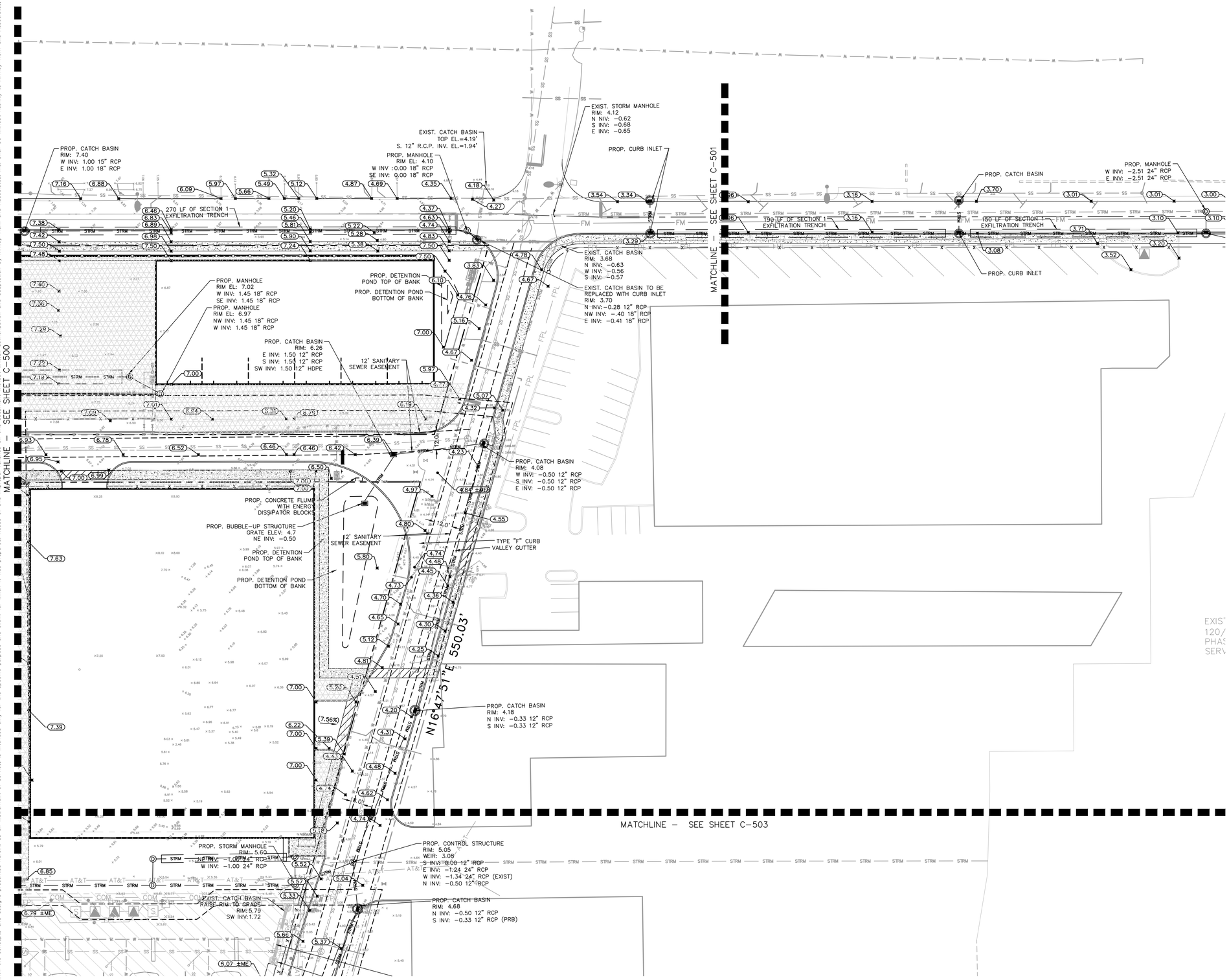
GRADING AND DRAINAGE PLAN

SAFE HARBOR RIVIERA BEACH

PREPARED FOR
SAFE HARBOR MARINAS FL
RIVIERA BEACH

SHEET NUMBER
C-500

Plotted By:Effie, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-500 GRADING AND DRAINAGE PLAN May 08, 2023 08:43:01pm K:\Ved_civil\145994004 — safe harbor riviera beach\CADD\Plansheets\C-500 PAVING, GRADING, AND DRAINAGE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



LEGEND

- PROPOSED PERVIOUS CONCRETE
- PROPOSED IMPERVOUS CONCRETE
- PROPERTY LINE
- CENTERLINE OF R/W
- UTILITY CROSSING
- STRM — PROPOSED STORM PIPE
- PROPOSED STORM AREA INLET
- PROPOSED STORM CURB INLET
- PROPOSED STORM MANHOLE
- STRM — EXISTING STORM PIPE
- EXISTING STORM AREA INLET
- EXISTING STORM CURB INLET
- EXISTING STORM MANHOLE
- SS — SS — SANITARY FORCE MAIN PIPE
- SS — SS — SANITARY PIPE
- SANITARY MANHOLE
- FM — FM — FIRE LINE PIPE
- W — W — WATER PIPE
- FIRE HYDRANT
- FIRE DEPARTMENT CONNECTION
- W — W — RECLAIMED WATER PIPE
- IRRIGATION MAIN PIPE
- FO — FO — FIBER OPTIC LINE
- OHL — OHL — OVERHEAD LINE
- T — T — TELEPHONE LINE
- COM — COMMUNICATIONS LINE
- UE — UE — UNDERGROUND ELECTRIC LINE
- FPL — FPL — FPL LINE
- E — E — ELECTRICAL LINE
- G — G — GAS LINE
- EXISTING UTILITY EASEMENTS
- PROPOSED UTILITY EASEMENTS
- (11.82) PROPOSED SPOT ELEVATION
- (11.82 ±ME) MATCH EXISTING ELEVATION
- 99.99+ EXISTING ELEVATION
- FLOW ARROW

PAVING, GRADING AND DRAINAGE NOTES

1. ALL ELEVATIONS ON THE PLANS OR REFERENCED IN THE SPECIFICATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (N.A.V.D. 1988).
2. THE CROSS SLOPE ON ADA ACCESSIBLE ROUTES SHALL NOT EXCEED 2.0%. THE LONGITUDINAL SLOPE ON ADA ACCESSIBLE ROUTES (NOT INCLUDING RAMPS) SHALL NOT EXCEED 5.0%. THE LONGITUDINAL SLOPE FOR RAMPS SHALL NOT EXCEED 1:V:12H (8.3%). ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 2.0% IN ANY DIRECTION (INCLUDING DIAGONAL).
3. ALL CATCH BASINS AND DRAINAGE COLLECTION STRUCTURES SHALL BE DESIGNED WITH AN EIGHTEEN INCH (18") VERTICAL SUMP FROM THE INVERT ELEVATION (OR BOTTOM OF BAFFLE) TO THE BOTTOM OF THE STRUCTURE.
4. DRAINAGE STRUCTURES SHALL BE CONSTRUCTED USING U.S. PRECAST (USP) U.S. FOUNDRY (USF) OR FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD (FDOT) PRODUCTS AS SPECIFIED OR APPROVED EQUAL. ALL STORM DRAINAGE STRUCTURES MUST COMPLY WITH CITY OF RIVIERA BEACH DETAILS AND REGULATIONS.

4. ROOF DRAIN CONNECTIONS TO DRAINAGE PIPE SHALL BE AS FOLLOWS:
   A. FOR ADS N-12 CORRUGATED POLYETHYLENE DRAINAGE PIPE USE ADS DUAL WALL FABRICATED REDUCING SADDLE TEE 4"-24" DIAMETER
   B. FOR RCP DRAINAGE PIPE MAKE CONNECTION FDOT INDEX 280, CONCRETE COLLAR FOR JOINING MAINLINE PIPE AND STUB PIPE DETAIL
   C. NOTIFY CONSULTANT FOR CONNECTION METHOD TO STEEL PIPE.
5. ALL RAMPS SHALL COMPLY WITH FDOT INDEX 522.
6. STORM DRAIN PIPE SHALL BE AS FOLLOWS:
   A. REINFORCED CONCRETE PIPE (RCP) CLASS III PER ASTM C-76 OR HIGH DENSITY POLY-ETHYLENE (HDPE) PIPE FOR 24" OR LESS FOR PIPES AND HP (HIGH PERFORMANCE) STORM PIPE FOR PIPES 30" AND LARGER. ROOF LEADER PIPE MATERIAL SHALL BE PVC SDR-35.
   B. CORRUGATED POLYETHYLENE PIPE PER AASHTO M294 JOINTS SHALL BE WATER TIGHT
   C. ANY STORM PIPE USED MUST BE APPROVED BY LOCAL AUTHORITIES.

CONTRACTOR SHALL SELECT THE MOST ECONOMICAL PRODUCT.

7. CONTRACTOR SHALL CLEAN ALL PROPOSED DRAINAGE STRUCTURES AND PIPES UPON COMPLETION OF CONSTRUCTION.
8. PROPOSED ELEVATIONS OF CURB REPRESENT FACE OF CURB OR EDGE OF PAVEMENT ELEVATIONS UNLESS OTHERWISE NOTED.
9. PROPOSED ELEVATIONS IN ALL PERVIOUS AREAS REPRESENT FINISHED TOP OF SOD/GRASS OR ANY OTHER LANDSCAPING MATERIAL.
10. ALL DRAINAGE STRUCTURES SHALL CONFORM TO THE LATEST FDOT INDEX STANDARDS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
11. MATCH EXISTING GRADES AT TIE-IN LOCATIONS AT PROPERTY LINES.
12. TOP OF LANDSCAPED OR SODDED AREA AGAINST BUILDING SHALL BE MIN 4" BELOW FINISH FLOOR ELEVATON AND AGAINST SIDEWALK SHALL BE MIN. 2" BELOW FINISH GRADE ON THE LOWSIDE. CONTRACTOR SHALL CONFIRM GRADES PRIOR TO INSTALLING LANDSCAPE.

FEMA FLOOD MAP: 12099C0393F
FLOOD ZONE X
100 YEAR FLOOD ELEVATION 6.00 NAVD 1988

PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.52' = (NGVD 1929)

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

Always call 811 two full business days before you dig to have underground utilities located and marked.

Sunshine811.com

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

This item has been digitally signed and sealed by Michael D. Spruce, PE (FL PE #52776) on the date noted using a Digital Signature. State of Florida, Professional Engineer, License No. 52776. It is not to be altered in any way. I am the author of this document. 2023.05.09 07:25:21-04'00'
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

KHA PROJECT	145994004
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	JPL
DRAWN BY	AMS
CHECKED BY	MDS

GRADING AND DRAINAGE PLAN

SAFE HARBOR RIVIERA BEACH

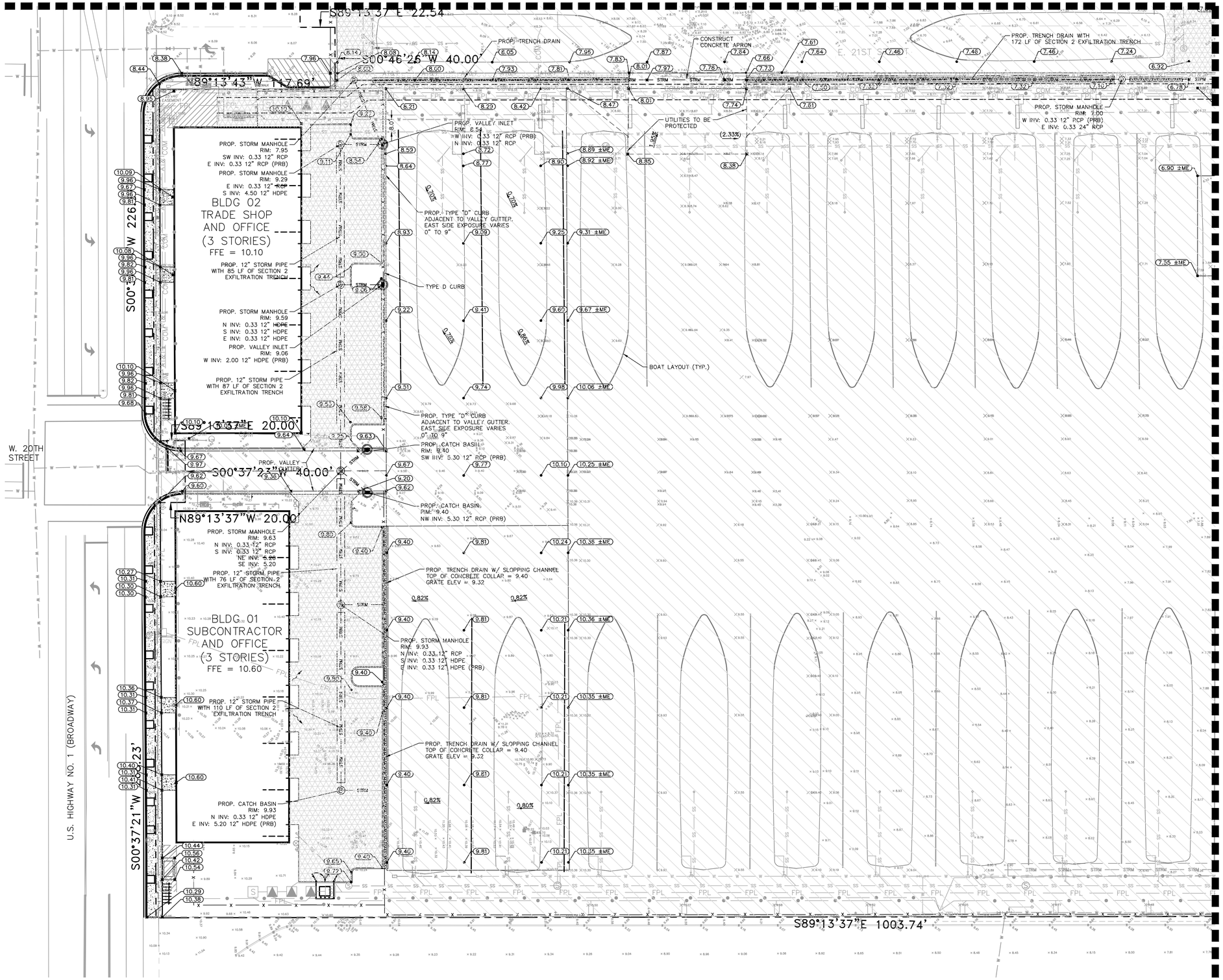
PREPARED FOR

SAFE HARBOR MARINAS

RIVIERA BEACH FL

SHEET NUMBER
C-501

Plotted By:Erik, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-501 GRADING AND DRAINAGE PLAN May 08, 2023 06:43:14pm K:\ved_civil\145994004 — safe harbor riviera beach\CADD\plansheets\C-600 PAVING, GRADING, AND DRAINAGE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



LEGEND

- PROPOSED PERVIOUS CONCRETE
- PROPOSED IMPERVIOUS CONCRETE
- PROPERTY LINE
- CENTERLINE OF R/W
- UTILITY CROSSING
- STRM — PROPOSED STORM PIPE
- PROPOSED STORM AREA INLET
- PROPOSED STORM CURB INLET
- PROPOSED STORM MANHOLE
- STRM — EXISTING STORM PIPE
- EXISTING STORM AREA INLET
- EXISTING STORM CURB INLET
- EXISTING STORM MANHOLE
- SS — SS — SANITARY FORCE MAIN PIPE
- SS — SS — SANITARY PIPE
- SANITARY MANHOLE
- FM — FM — FIRE LINE PIPE
- W — W — WATER PIPE
- FIRE HYDRANT
- FIRE DEPARTMENT CONNECTION
- W — W — RECLAIMED WATER PIPE
- IRRIGATION MAIN PIPE
- FO — FO — FIBER OPTIC LINE
- OHL — OHL — OVERHEAD LINE
- T — T — TELEPHONE LINE
- COM — COMMUNICATIONS LINE
- UE — UE — UNDERGROUND ELECTRIC LINE
- FPL — FPL — FPL LINE
- E — E — ELECTRICAL LINE
- G — G — GAS LINE
- EXISTING UTILITY EASEMENTS
- PROPOSED UTILITY EASEMENTS
- 11.82 — PROPOSED SPOT ELEVATION
- 11.82 ±ME — MATCH EXISTING ELEVATION
- 99 — EXISTING ELEVATION
- FLOW ARROW

PAVING, GRADING AND DRAINAGE NOTES

1. ALL ELEVATIONS ON THE PLANS OR REFERENCED IN THE SPECIFICATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (N.A.V.D. 1988).
2. THE CROSS SLOPE ON ADA ACCESSIBLE ROUTES SHALL NOT EXCEED 2.0%. THE LONGITUDINAL SLOPE ON ADA ACCESSIBLE ROUTES (NOT INCLUDING RAMPS) SHALL NOT EXCEED 5.0%. THE LONGITUDINAL SLOPE FOR RAMPS SHALL NOT EXCEED 1V:12H (8.3%). ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 2.0% IN ANY DIRECTION (INCLUDING DIAGONAL).
3. ALL CATCH BASINS AND DRAINAGE COLLECTION STRUCTURES SHALL BE DESIGNED WITH AN EIGHTEEN INCH (18") VERTICAL SUMP FROM THE INVERT ELEVATION (OR BOTTOM OF BAFFLE) TO THE BOTTOM OF THE STRUCTURE.
4. DRAINAGE STRUCTURES SHALL BE CONSTRUCTED USING U.S. PRECAST (USP) U.S. FOUNDRY (USF) OR FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD (FDOT) PRODUCTS AS SPECIFIED OR APPROVED EQUAL. ALL STORM DRAINAGE STRUCTURES MUST COMPLY WITH CITY OF RIVIERA BEACH DETAILS AND REGULATIONS.
4. ROOF DRAIN CONNECTIONS TO DRAINAGE PIPE SHALL BE AS FOLLOWS:
   A. FOR ADS N-12 CORRUGATED POLYETHYLENE DRAINAGE PIPE USE ADS DUAL WALL FABRICATED REDUCING SADDLE TEE 4"-24" DIAMETER
   B. FOR RCP DRAINAGE PIPE MAKE CONNECTION FDOT INDEX 280, CONCRETE COLLAR FOR JOINING MAINLINE PIPE AND STUB PIPE DETAIL.
   C. NOTIFY CONSULTANT FOR CONNECTION METHOD TO STEEL PIPE.
5. ALL RAMPS SHALL COMPLY WITH FDOT INDEX 522.
6. STORM DRAIN PIPE SHALL BE AS FOLLOWS:
   A. REINFORCED CONCRETE PIPE (RCP) CLASS III PER ASTM C-76 OR HIGH DENSITY POLY-ETHYLENE (HDPE) PIPE FOR 24" OR LESS FOR PIPES AND HP (HIGH PERFORMANCE) STORM PIPE FOR PIPES 30" AND LARGER. ROOF LEADER PIPE MATERIAL SHALL BE PVC SDR-35.
   B. CORRUGATED POLYETHYLENE PIPE PER AASHTO M294 JOINTS SHALL BE WATER TIGHT
   C. ANY STORM PIPE USED MUST BE APPROVED BY LOCAL AUTHORITIES.

CONTRACTOR SHALL SELECT THE MOST ECONOMICAL PRODUCT.

7. CONTRACTOR SHALL CLEAN ALL PROPOSED DRAINAGE STRUCTURES AND PIPES UPON COMPLETION OF CONSTRUCTION.
8. PROPOSED ELEVATIONS OF CURB REPRESENT FACE OF CURB OR EDGE OF PAVEMENT ELEVATIONS UNLESS OTHERWISE NOTED.
9. PROPOSED ELEVATIONS IN ALL PERVIOUS AREAS REPRESENT FINISHED TOP OF SOD/GRASS OR ANY OTHER LANDSCAPING MATERIAL.
10. ALL DRAINAGE STRUCTURES SHALL CONFORM TO THE LATEST FDOT INDEX STANDARDS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
11. MATCH EXISTING GRADES AT TIE-IN LOCATIONS AT PROPERTY LINES.
12. TOP OF LANDSCAPED OR SODDED AREA AGAINST BUILDING SHALL BE MIN 4" BELOW FINISH FLOOR ELEVATON AND AGAINST SIDEWALK SHALL BE MIN. 2" BELOW FINISH GRADE ON THE LOWSIDE. CONTRACTOR SHALL CONFIRM GRADES PRIOR TO INSTALLING LANDSCAPE.

FEMA FLOOD MAP: 12099C0393F
FLOOD ZONE X
100 YEAR FLOOD ELEVATION 6.00 NAVD 1988

PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.52' = (NGVD 1929)

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

Always call 811 two full business days before you dig to have underground utilities located and marked.
Sunshine811.com

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

This item has been digitally signed and sealed by Michael D. Spruce, PE (FL PE #52776) on the date noted using a Digital Signature. State of Florida, Professional Engineer, License No. 52776
I am the author of this document.
2023.05.09 07:25:22-04'00'
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

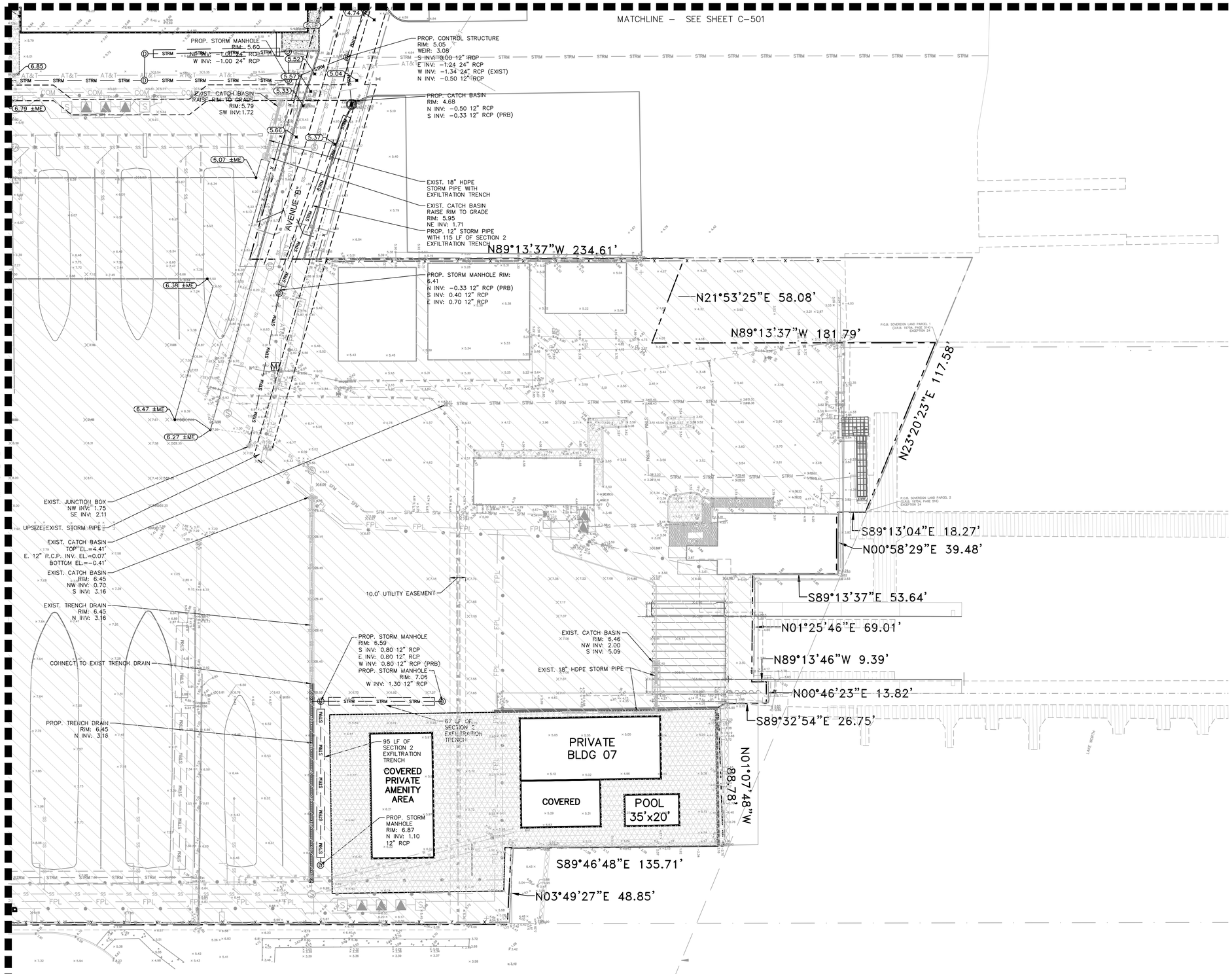
KHA PROJECT 145994004
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

GRADING AND DRAINAGE PLAN

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
C-502

Plotted By:Erfle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-502 GRADING AND DRAINAGE PLAN May 08, 2023 06:43:29pm K:\bca_civil\145994004 — safe harbor riviera beach\CADD\plansheets\C-500 PAVING, GRADING, AND DRAINAGE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



LEGEND

- PROPOSED PERVIOUS CONCRETE
- PROPOSED IMPERVIOUS CONCRETE
- PROPERTY LINE
- CENTERLINE OF R/W
- UTILITY CROSSING
- STRM — PROPOSED STORM PIPE
- PROPOSED STORM AREA INLET
- PROPOSED STORM CURB INLET
- PROPOSED STORM MANHOLE
- STRM — EXISTING STORM PIPE
- EXISTING STORM AREA INLET
- EXISTING STORM CURB INLET
- EXISTING STORM MANHOLE
- SS — SS — SANITARY FORCE MAIN PIPE
- SS — SS — SANITARY PIPE
- SANITARY MANHOLE
- FM — FM — FIRE LINE PIPE
- W — W — WATER PIPE
- FIRE HYDRANT
- FIRE DEPARTMENT CONNECTION
- W — W — RECLAIMED WATER PIPE
- IRRIGATION MAIN PIPE
- FO — FO — FIBER OPTIC LINE
- OHL — OHL — OVERHEAD LINE
- T — T — TELEPHONE LINE
- COM — COMMUNICATIONS LINE
- UE — UE — UNDERGROUND ELECTRIC LINE
- FPL — FPL — FPL LINE
- E — E — ELECTRICAL LINE
- G — G — GAS LINE
- EXISTING UTILITY EASEMENTS
- PROPOSED UTILITY EASEMENTS
- (11.82) PROPOSED SPOT ELEVATION
- (11.82 ±ME) MATCH EXISTING ELEVATION
- 50.00 EXISTING ELEVATION
- FLOW ARROW

PAVING, GRADING AND DRAINAGE NOTES

1. ALL ELEVATIONS ON THE PLANS OR REFERENCED IN THE SPECIFICATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (N.A.V.D. 1988).
2. THE CROSS SLOPE ON ADA ACCESSIBLE ROUTES SHALL NOT EXCEED 2.0%. THE LONGITUDINAL SLOPE ON ADA ACCESSIBLE ROUTES (NOT INCLUDING RAMPS) SHALL NOT EXCEED 5.0%. THE LONGITUDINAL SLOPE FOR RAMPS SHALL NOT EXCEED 1V:12H (8.3%). ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 2.0% IN ANY DIRECTION (INCLUDING DIAGONAL).
3. ALL CATCH BASINS AND DRAINAGE COLLECTION STRUCTURES SHALL BE DESIGNED WITH AN EIGHTEEN INCH (18") VERTICAL SUMP FROM THE INVERT ELEVATION (OR BOTTOM OF BAFFLE) TO THE BOTTOM OF THE STRUCTURE.
4. DRAINAGE STRUCTURES SHALL BE CONSTRUCTED USING U.S. PRECAST (USP) U.S. FOUNDRY (USF) OR FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD (FDOT) PRODUCTS AS SPECIFIED OR APPROVED EQUAL. ALL STORM DRAINAGE STRUCTURES MUST COMPLY WITH CITY OF RIVIERA BEAECH DETAILS AND REGULATIONS.
4. ROOF DRAIN CONNECTIONS TO DRAINAGE PIPE SHALL BE AS FOLLOWS:
   A. FOR ADS N-12 CORRUGATED POLYETHYLENE DRAINAGE PIPE USE ADS DUAL WALL FABRICATED REDUCING SADDLE TEE 4"–24" DIAMETER
   B. FOR RCP DRAINAGE PIPE MAKE CONNECTION FDOT INDEX 280, CONCRETE COLLAR FOR JOINING MAINLINE PIPE AND STUB PIPE DETAIL
   C. NOTIFY CONSULTANT FOR CONNECTION METHOD TO STEEL PIPE.
5. ALL RAMPS SHALL COMPLY WITH FDOT INDEX 522.
6. STORM DRAIN PIPE SHALL BE AS FOLLOWS:
   A. REINFORCED CONCRETE PIPE (RCP) CLASS III PER ASTM C–76 OR HIGH DENSITY POLY–ETHYLENE (HDPE) PIPE FOR 24" OR LESS FOR PIPES AND HP (HIGH PERFORMANCE) STORM PIPE FOR PIPES 30" AND LARGER. ROOF LEADER PIPE MATERIAL SHALL BE PVC SDR–35.
   B. CORRUGATED POLYETHYLENE PIPE PER AASHTO M294 JOINTS SHALL BE WATER TIGHT
   C. ANY STORM PIPE USED MUST BE APPROVED BY LOCAL AUTHORITIES.

CONTRACTOR SHALL SELECT THE MOST ECONOMICAL PRODUCT.

7. CONTRACTOR SHALL CLEAN ALL PROPOSED DRAINAGE STRUCTURES AND PIPES UPON COMPLETION OF CONSTRUCTION.
8. PROPOSED ELEVATIONS OF CURB REPRESENT FACE OF CURB OR EDGE OF PAVEMENT ELEVATIONS UNLESS OTHERWISE NOTED.
9. PROPOSED ELEVATIONS IN ALL PERVIOUS AREAS REPRESENT FINISHED TOP OF SOD/GRASS OR ANY OTHER LANDSCAPING MATERIAL.
10. ALL DRAINAGE STRUCTURES SHALL CONFORM TO THE LATEST FDOT INDEX STANDARDS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
11. MATCH EXISTING GRADES AT TIE–IN LOCATIONS AT PROPERTY LINES.
12. TOP OF LANDSCAPED OR SODDED AREA AGAINST BUILDING SHALL BE MIN. 4" BELOW FINISH FLOOR ELEVATON AND AGAINST SIDEWALK SHALL BE MIN. 2" BELOW FINISH GRADE ON THE LOWSIDE. CONTRACTOR SHALL CONFIRM GRADES PRIOR TO INSTALLING LANDSCAPE.

NOTE: FINAL DESIGN AND GRADING WILL BE PROVIDED DURING ENGINEERING REVIEW.

FEMA FLOOD MAP: 12099C0393F
FLOOD ZONE X
100 YEAR FLOOD ELEVATION 6.00 NAVD 1988

PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.52' = (NGVD 1929)

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

Always call 811 two full business days before you dig to have underground utilities located and marked.
Sunshine811.com

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

This item has been digitally signed and sealed by Michael D. Spruce, PE (FL PE #52776) on the date noted using a Digital Signature. State of Florida, Professional Engineer, License No. 52776
I am the author of this document. 2023.05.09 07:25:24 -04'00'
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

KHA PROJECT 145994004
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

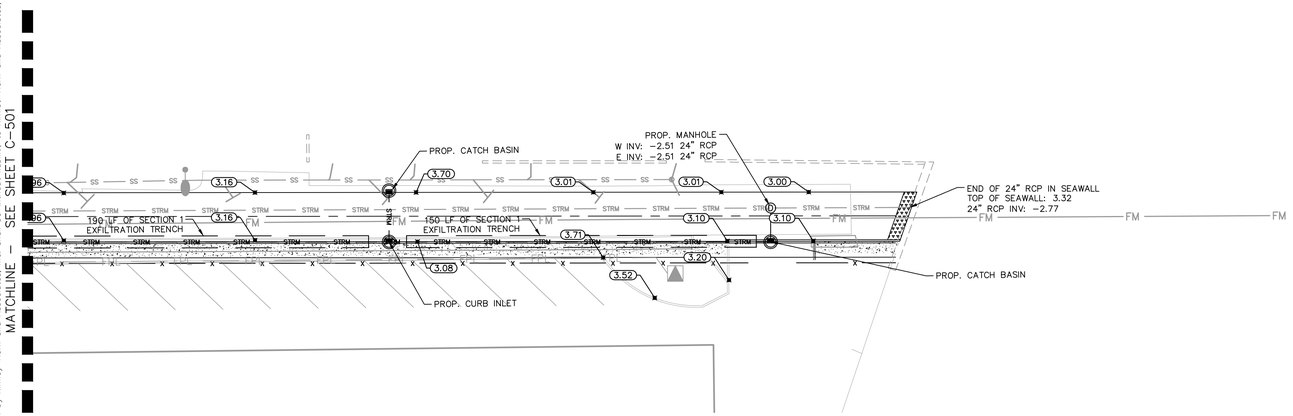
GRADING AND DRAINAGE PLAN

SAFE HARBOR RIVIERA BEACH

PREPARED FOR
SAFE HARBOR MARINAS FL
RIVIERA BEACH

SHEET NUMBER
C-503

Plotted By:Erle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-503 GRADING AND DRAINAGE PLAN May 08, 2023 05:43:41pm K:\bed_civil\145994004 – safe harbor riviera beach\CADD\Sheets\C-500 PAVING, GRADING, AND DRAINAGE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



GRAPHIC SCALE IN FEET
0 15 30 60

LEGEND

- PROPOSED PERVIOUS CONCRETE
- PROPOSED IMPERVIOUS CONCRETE
- PROPERTY LINE
- CENTERLINE OF R/W
- UTILITY CROSSING
- STRM — PROPOSED STORM PIPE
- PROPOSED STORM AREA INLET
- PROPOSED STORM CURB INLET
- PROPOSED STORM MANHOLE
- STRM — EXISTING STORM PIPE
- EXISTING STORM AREA INLET
- EXISTING STORM CURB INLET
- EXISTING STORM MANHOLE
- SS — SS — SANITARY FORCE MAIN PIPE
- SS — SS — SANITARY PIPE
- SANITARY MANHOLE
- FM — FM — FIRE LINE PIPE
- W — W — WATER PIPE
- FIRE HYDRANT
- FIRE DEPARTMENT CONNECTION
- W — W — RECLAIMED WATER PIPE
- IRRIGATION MAIN PIPE
- FO — FO — FIBER OPTIC LINE
- OHL — OHL — OVERHEAD LINE
- T — T — TELEPHONE LINE
- COM — COMMUNICATIONS LINE
- UE — UE — UNDERGROUND ELECTRIC LINE
- FPL — FPL — FPL LINE
- E — ELECTRICAL LINE
- G — G — GAS LINE
- EXISTING UTILITY EASEMENTS
- PROPOSED UTILITY EASEMENTS
- 11.82 — PROPOSED SPOT ELEVATION
- 11.82 ±ME — MATCH EXISTING ELEVATION
- 30.00+ — EXISTING ELEVATION
- FLOW ARROW

PAVING, GRADING AND DRAINAGE NOTES

1. ALL ELEVATIONS ON THE PLANS OR REFERENCED IN THE SPECIFICATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (N.A.V.D. 1988).

2. THE CROSS SLOPE ON ADA ACCESSIBLE ROUTES SHALL NOT EXCEED 2.0%. THE LONGITUDINAL SLOPE ON ADA ACCESSIBLE ROUTES (NOT INCLUDING RAMPS) SHALL NOT EXCEED 5.0%. THE LONGITUDINAL SLOPE FOR RAMPS SHALL NOT EXCEED 1V:12H (8.3%). ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 2.0% IN ANY DIRECTION (INCLUDING DIAGONAL).

3. ALL CATCH BASINS AND DRAINAGE COLLECTION STRUCTURES SHALL BE DESIGNED WITH AN EIGHTEEN INCH (18") VERTICAL SUMP FROM THE INVERT ELEVATION (OR BOTTOM OF BAFFLE) TO THE BOTTOM OF THE STRUCTURE.

4. DRAINAGE STRUCTURES SHALL BE CONSTRUCTED USING U.S. PRECAST (USP) U.S. FOUNDRY (USF) OR FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD (FDOT) PRODUCTS AS SPECIFIED OR APPROVED EQUAL. ALL STORM DRAINAGE STRUCTURES MUST COMPLY WITH CITY OF RIVIERA BEAECH DETAILS AND REGULATIONS.

4. ROOF DRAIN CONNECTIONS TO DRAINAGE PIPE SHALL BE AS FOLLOWS:
   A. FOR ADS N-12 CORRUGATED POLYETHYLENE DRAINAGE PIPE USE ADS DUAL WALL FABRICATED REDUCING SADDLE TEE 4"-24" DIAMETER
   B. FOR RCP DRAINAGE PIPE MAKE CONNECTION FDOT INDEX 280, CONCRETE COLLAR FOR JOINING MAINLINE PIPE AND STUB PIPE DETAIL
   C. NOTIFY CONSULTANT FOR CONNECTION METHOD TO STEEL PIPE.

5. ALL RAMPS SHALL COMPLY WITH FDOT INDEX 522.

6. STORM DRAIN PIPE SHALL BE AS FOLLOWS:
   A. REINFORCED CONCRETE PIPE (RCP) CLASS III PER ASTM C-76 OR HIGH DENSITY POLY-ETHYLENE (HDPE) PIPE FOR 24" OR LESS FOR PIPES AND HP (HIGH PERFORMANCE) STORM PIPE FOR PIPES 30" AND LARGER. ROOF LEADER PIPE MATERIAL SHALL BE PVC SDR-35.
   B. CORRUGATED POLYETHYLENE PIPE PER AASHTO M294 JOINTS SHALL BE WATER TIGHT
   C. ANY STORM PIPE USED MUST BE APPROVED BY LOCAL AUTHORITIES.

CONTRACTOR SHALL SELECT THE MOST ECONOMICAL PRODUCT.

7. CONTRACTOR SHALL CLEAN ALL PROPOSED DRAINAGE STRUCTURES AND PIPES UPON COMPLETION OF CONSTRUCTION.

8. PROPOSED ELEVATIONS OF CURB REPRESENT FACE OF CURB OR EDGE OF PAVEMENT ELEVATIONS UNLESS OTHERWISE NOTED.

9. PROPOSED ELEVATIONS IN ALL PERVIOUS AREAS REPRESENT FINISHED TOP OF SOD/GRASS OR ANY OTHER LANDSCAPING MATERIAL.

10. ALL DRAINAGE STRUCTURES SHALL CONFORM TO THE LATEST FDOT INDEX STANDARDS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.

11. MATCH EXISTING GRADES AT TIE-IN LOCATIONS AT PROPERTY LINES.

12. TOP OF LANDSCAPED OR SODDED AREA AGAINST BUILDING SHALL BE MIN. 4" BELOW FINISH FLOOR ELEVATON AND AGAINST SIDEWALK SHALL BE MIN. 2" BELOW FINISH GRADE ON THE LOWSIDE. CONTRACTOR SHALL CONFIRM GRADES PRIOR TO INSTALLING LANDSCAPE.

FEMA FLOOD MAP: 12099C0393F
FLOOD ZONE X
100 YEAR FLOOD ELEVATION 6.00 NAVD 1988

PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.52' = (NGVD 1929)

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

Always call 811 two full business days before you dig to have underground utilities located and marked.

Sunshine811.com

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

This item has been digitally signed and sealed by Michael D. Spruce, PE (FL PE #52776) on the date noted using a Digital Signature. State of Florida Professional Engineer, License No. 52776 I am the author of this document. 2023.05.09 07:25:26-04'00'
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

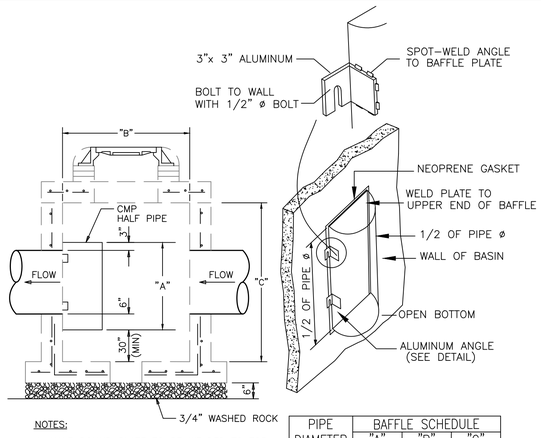
KHA PROJECT	145994004
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	JPL
DRAWN BY	AMS
CHECKED BY	MDS

GRADING AND DRAINAGE PLAN

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
C-504

Plotted By:Erik, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-504 GRADING AND DRAINAGE PLAN May 08, 2023 08:43:56pm K:\Ved_civil\145994004 - safe harbor riviera beach\CADD\plotsheets\C-500 PAVING, GRADING, AND DRAINAGE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



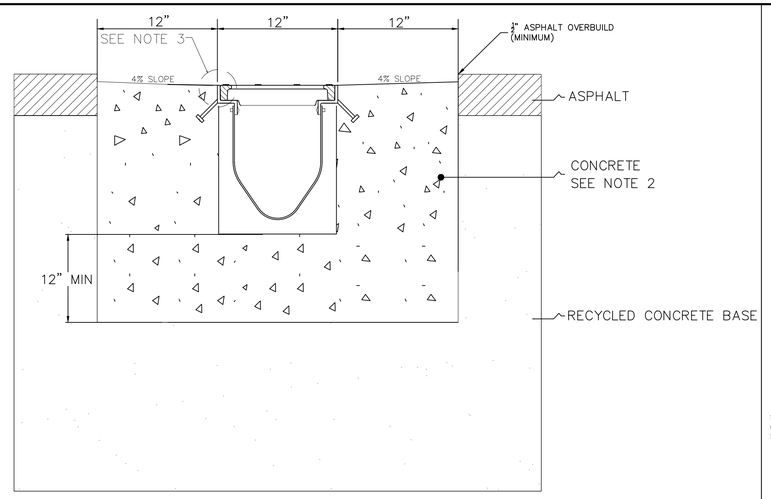
NOTES:

1. HALF ROUND PLATE TO BE WELDED TO TOP FOR POLLUTION RETARDANT BASIN.
2. THE HALF ROUND PIPE SHALL BE ONE SIZE LARGER THAN DISCHARGE PIPE.
3. FOR STRUCTURE'S CONSTRUCTION DIMENSIONS AND SPEC'S., SEE PRECAST CATCH BASIN DETAIL.
4. WEEP HOLES ARE NOT PERMITED IN WELLFIELD AREAS.

PIPE	BAFFLE SCHEDULE		
DIAMETER	"A"	"B"	"C"
15"	27"	24"	37"
18"	30"	24"	37"
24"	36"	36"	36"
30"	42"	36"	42"
36"	48"	42"	54"
42"	56"	56"	56"
48"	60"	48"	60"
60"	72"	72"	72"

POLLUTION RETARDANT BAFFLE (PRB)
NOT TO SCALE

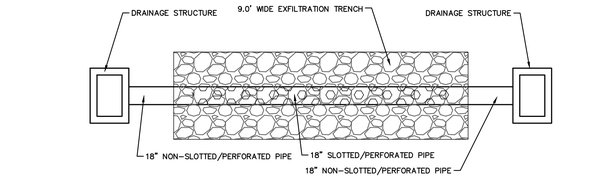
K-H

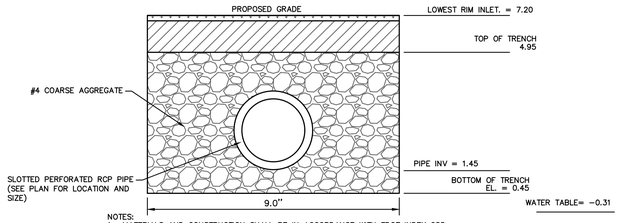


NOTE:

1. CONTRACTOR TO CONFIRM DESIGN WITH ACO DRAIN PRODUCTS AND CONSTRUCT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. SUBMIT SHOP DRAWINGS FOR REVIEW BY ENGINEER. SUBSTITUTIONS OF ALTERNATIVE PRODUCTS MUST BE APPROVED BY ENGINEER.
2. A MINIMUM CONCRETE STRENGTH OF 4000 PSI IS RECOMMENDED. THE CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS.
3. THE FINISHED LEVEL OF CONCRETE SURROUND MUST BE APPROX. ¼" ABOVE THE TOP OF THE CHANNEL EDGE.
4. REFER TO ACO'S LATEST INSTALLATION INSTRUCTIONS FOR COMPLETE DETAILS.

TYPICAL TRENCH DRAIN SECTION
N.T.S.

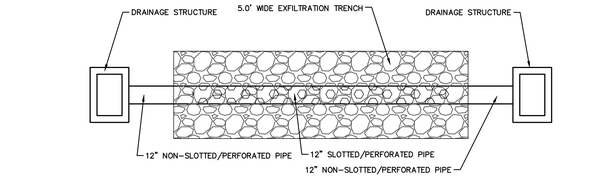


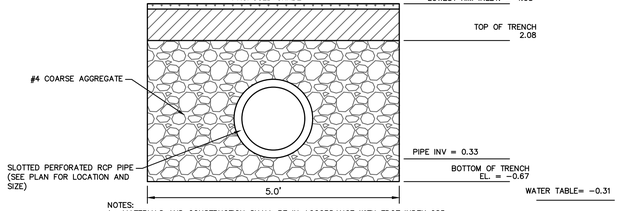


NOTES:

1. MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH FDOT INDEX 285.
2. FILTER FABRIC ALL FOUR (4) SIDES OF EXFILTRATION TRENCH WITH 12" OVERLAP AT TOP OF TRENCH.
3. SLOTS OR PERFORATIONS SHALL BE CONSTRUCTED BY THE PIPE MANUFACTURER AND NOT CUT AT THE PROJECT SITE. SLOTS OR PERFORATIONS SHALL MEET FDOT SPECIFICATIONS.

EXFILTRATION TRENCH (SECTION 1) DETAIL
NOT TO SCALE





NOTES:

1. MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH FDOT INDEX 285.
2. FILTER FABRIC ALL FOUR (4) SIDES OF EXFILTRATION TRENCH WITH 12" OVERLAP AT TOP OF TRENCH.
3. SLOTS OR PERFORATIONS SHALL BE CONSTRUCTED BY THE PIPE MANUFACTURER AND NOT CUT AT THE PROJECT SITE. SLOTS OR PERFORATIONS SHALL MEET FDOT SPECIFICATIONS.

EXFILTRATION TRENCH (SECTION 2) DETAIL
NOT TO SCALE

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

This item has been digitally signed and sealed by Michael D. Spruce, PE (FL PE #52776) on the date noted using a Digital Signature. State of Florida, Professional Engineer, License No. 52776
I am the author of this document.
2023.05.09 07:25:28-04'00'
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

KHA PROJECT 145994004	SCALE AS SHOWN	DESIGNED BY JPL
DATE MAY 2023		DRAWN BY AMS
		CHECKED BY MDS

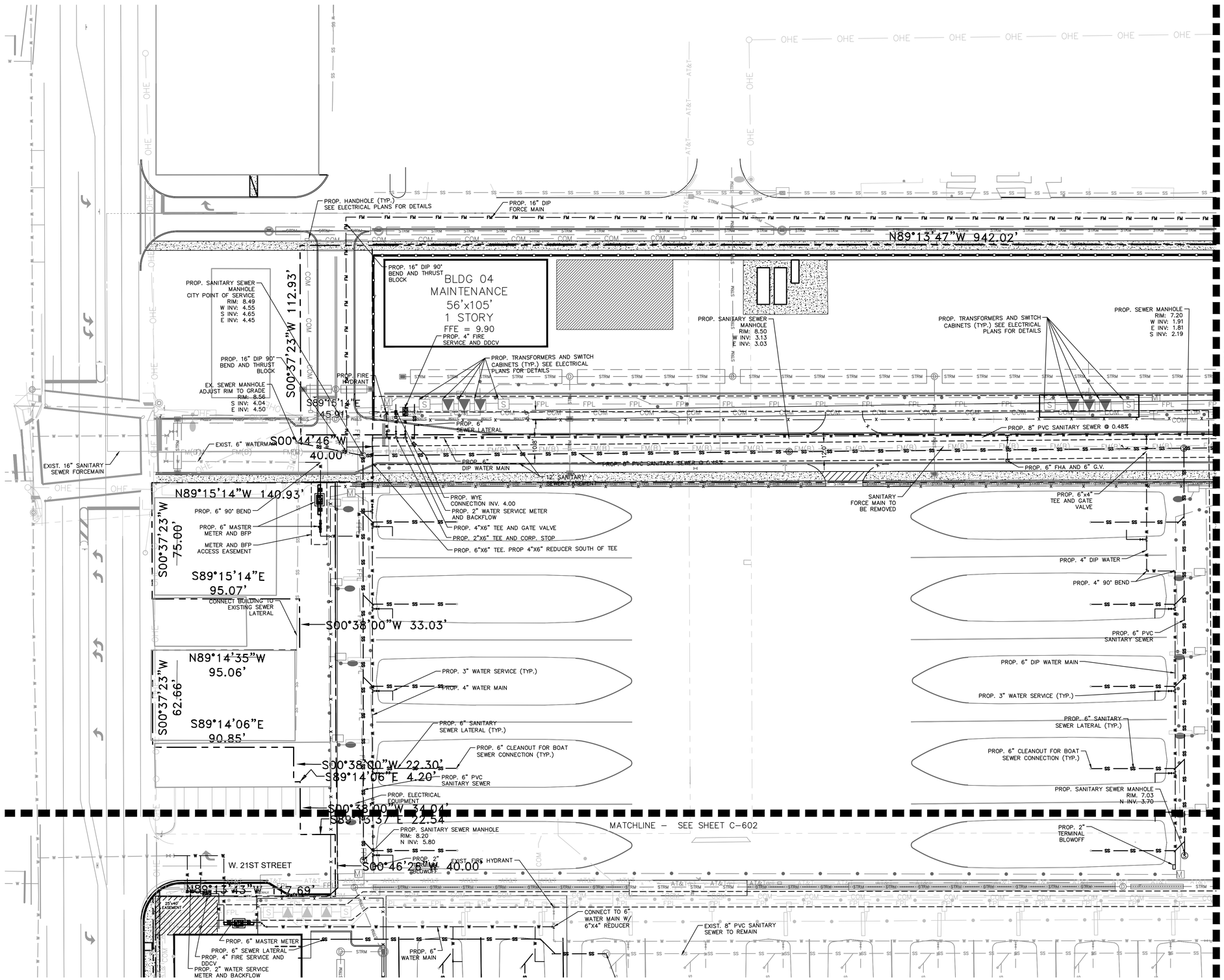
GRADING AND DRAINAGE DETAILS

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
C-510

Plotted By:Erlle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-510 DRAINAGE DETAILS May 08, 2023 06:44:27pm K:\Ved_civil\145994004 - safe harbor riviera beach\CADD\plotsheets\C-510 PAVING, GRADING, AND DRAINAGE DETAILS.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

Plotted By:Erlic, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-600 UTILITY PLAN May 08, 2023 06:46:38pm K:\bcd_civil\145994004 - safe harbor riviera beach\CADD\planSheets\C-600 UTILITY PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



LEGEND

- PROPERTY LINE
- CENTERLINE OF R/W
- UTILITY CROSSING
- PROPOSED SANITARY FORCE MAIN PIPE
- PROPOSED SANITARY PIPE
- PROPOSED SANITARY MANHOLE
- PROPOSED FIRE LINE PIPE
- PROPOSED WATER LINE PIPE
- PROPOSED FIRE HYDRANT
- PROPOSED FIRE DEPARTMENT CONNECTION
- PROPOSED RECLAIMED WATER MAIN PIPE
- PROPOSED IRRIGATION MAIN PIPE
- PROPOSED FIBER OPTIC LINE
- PROPOSED OVERHEAD LINE
- PROPOSED TELEPHONE LINE
- PROPOSED COMMUNICATIONS LINE
- PROPOSED UNDERGROUND ELECTRIC LINE
- PROPOSED FPL LINE
- PROPOSED ELECTRICAL LINE
- PROPOSED GAS LINE
- PROPOSED UTILITY EASEMENTS
- EXISTING SANITARY FORCE MAIN PIPE
- EXISTING SANITARY PIPE
- EXISTING SANITARY MANHOLE
- EXISTING FIRE LINE PIPE
- EXISTING WATER PIPE
- EXISTING FIRE HYDRANT
- EXISTING FIRE DEPARTMENT CONNECTION
- EXISTING WATER PIPE
- EXISTING IRRIGATION MAIN PIPE
- EXISTING FIBER OPTIC LINE
- EXISTING OVERHEAD LINE
- EXISTING TELEPHONE LINE
- EXISTING COMMUNICATIONS LINE
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING FPL LINE
- EXISTING ELECTRICAL LINE
- EXISTING GAS LINE
- EXISTING UTILITY EASEMENTS
- STORM PIPE (SEE PAVING, GRADING AND DRAINAGE PLANS)
- STORM AREA INLET
- STORM CURB INLET
- STORM MANHOLE
- PROPOSED LIGHT POLE (SEE ELECTRICAL PLANS)

UTILITY NOTES

1. SEE SHEET C-610 FOR UTILITY NOTES
2. PUBLIC SANITARY SEWER FACILITIES WITHIN EXISTING RIGHTS-OF-WAY NOTED TO BE ABANDONED WILL BE DEMOLISHED AND REMOVED OR CONVERTED TO PRIVATE USE WITH A TERMINAL MANHOLE UPSTREAM OF REMAINING PUBLIC SANITARY SEWER. PUBLIC POTABLE WATER FACILITIES WITHIN EXISTING RIGHTS-OF-WAY NOTED TO BE ABANDONED WILL BE DEMOLISHED AND REMOVED OR CONVERTED TO PRIVATE USE WITH A MASTER METER AND BACKFLOW PREVENTER OUTSIDE THE PROJECT CAMPUS. PUBLIC DRAINAGE FACILITIES WITHIN EXISTING RIGHTS-OF-WAY NOTED TO BE ABANDONED WILL BE DEMOLISHED AND REMOVED OR CONVERTED TO PRIVATE USE. SERVICES TO EXISTING PUBLIC USERS OUTSIDE THE CAMPUS BOUNDARIES WILL NOT BE DISCONNECTED OR OTHERWISE ALTERED.
3. PROPOSED DRY UTILITIES SHOWN ARE DIAGRAMMATIC. CONTRACTOR SHALL INSTALL ALL CONDUIT WITHIN THE PROPOSED DRY UTILITY EASEMENTS AND MAINTAIN A MINIMUM OF 12" HORIZONTAL CLARENCE BETWEEN PROPOSED FPL AND OTHER FACILITIES. REFER TO ELECTRICAL PLANS FOR DETAILS.
4. THE RELOCATED 16-INCH SANITARY FORCEMAIN SHALL BE CONSTRUCTED IN A MANNER SO THAT IT WILL NOT INTERFERE WITH THE EXISTING 16-INCH SANITARY FORCEMAIN PROVIDING UNINTERRUPTED SERVICE.

FEMA FLOOD MAP: 12099C0393F
FLOOD ZONE X
100 YEAR FLOOD ELEVATION 6.00 NAVD 1988

PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.52' = (NGVD 1929)

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

Always call 811 two full business days before you dig to have underground utilities located and marked.
Sunshine811.com

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

This item has been digitally signed and sealed by Michael D. Spruce, PE (FL PE #52776) on the date noted using a Digital Signature. State of Florida, Professional Engineer, License No. 52776
I am the author of this document. 2023.05.09 07:25:30-04'00'
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

KHA PROJECT	145994004
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	JPL
DRAWN BY	AMS
CHECKED BY	MDS

UTILITY PLAN

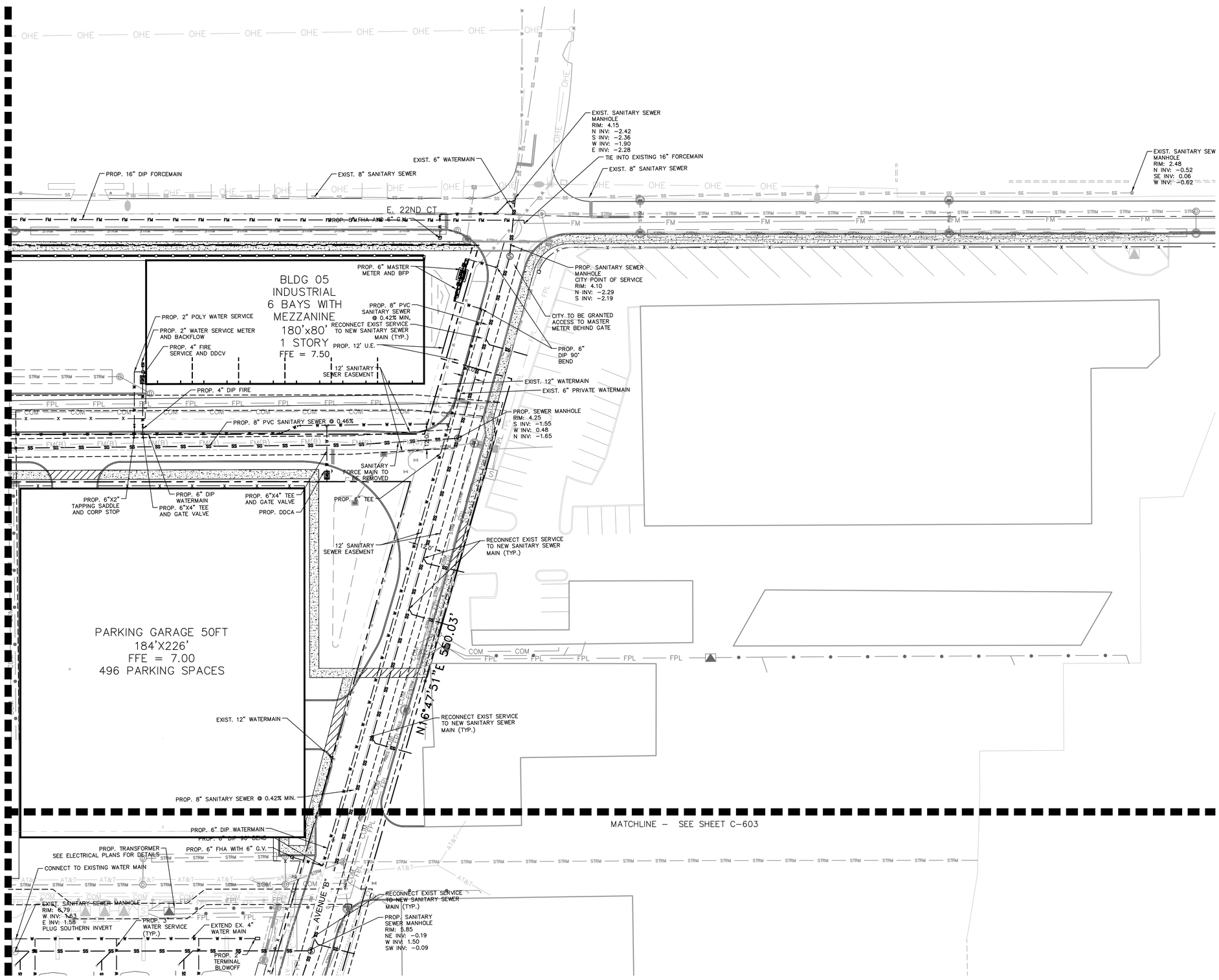
SAFE HARBOR RIVIERA BEACH

PREPARED FOR

SAFE HARBOR MARINAS

RIVIERA BEACH FL

SHEET NUMBER
C-600



LEGEND

- PROPERTY LINE
- CENTERLINE OF R/W
- UTILITY CROSSING
- PROPOSED SANITARY FORCE MAIN PIPE
- PROPOSED SANITARY PIPE
- PROPOSED SANITARY MANHOLE
- PROPOSED FIRE LINE PIPE
- PROPOSED WATER LINE PIPE
- PROPOSED FIRE HYDRANT
- PROPOSED FIRE DEPARTMENT CONNECTION
- PROPOSED RECLAIMED WATER MAIN PIPE
- PROPOSED IRRIGATION MAIN PIPE
- PROPOSED FIBER OPTIC LINE
- PROPOSED OVERHEAD LINE
- PROPOSED TELEPHONE LINE
- PROPOSED COMMUNICATIONS LINE
- PROPOSED UNDERGROUND ELECTRIC LINE
- PROPOSED FPL LINE
- PROPOSED ELECTRICAL LINE
- PROPOSED GAS LINE
- PROPOSED UTILITY EASEMENTS
- EXISTING SANITARY FORCE MAIN PIPE
- EXISTING SANITARY PIPE
- EXISTING SANITARY MANHOLE
- EXISTING FIRE LINE PIPE
- EXISTING WATER PIPE
- EXISTING FIRE HYDRANT
- EXISTING FIRE DEPARTMENT CONNECTION
- EXISTING WATER PIPE
- EXISTING IRRIGATION MAIN PIPE
- EXISTING FIBER OPTIC LINE
- EXISTING OVERHEAD LINE
- EXISTING TELEPHONE LINE
- EXISTING COMMUNICATIONS LINE
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING FPL LINE
- EXISTING ELECTRICAL LINE
- EXISTING GAS LINE
- EXISTING UTILITY EASEMENTS
- STORM PIPE (SEE PAVING, GRADING AND DRAINAGE PLANS)
- STORM AREA INLET
- STORM CURB INLET
- STORM MANHOLE
- PROPOSED LIGHT POLE (SEE ELECTRICAL PLANS)

UTILITY NOTES

1. SEE SHEET C-610 FOR UTILITY NOTES
2. PUBLIC SANITARY SEWER FACILITIES WITHIN EXISTING RIGHTS-OF-WAY NOTED TO BE ABANDONED WILL BE DEMOLISHED AND REMOVED OR CONVERTED TO PRIVATE USE WITH A TERMINAL MANHOLE UPSTREAM OF REMAINING PUBLIC SANITARY SEWER. PUBLIC POTABLE WATER FACILITIES WITHIN EXISTING RIGHTS-OF-WAY NOTED TO BE ABANDONED WILL BE DEMOLISHED AND REMOVED OR CONVERTED TO PRIVATE USE WITH A MASTER METER AND BACKFLOW PREVENTER OUTSIDE THE PROJECT CAMPUS. PUBLIC DRAINAGE FACILITIES WITHIN EXISTING RIGHTS-OF-WAY NOTED TO BE ABANDONED WILL BE DEMOLISHED AND REMOVED OR CONVERTED TO PRIVATE USE. SERVICES TO EXISTING PUBLIC USERS OUTSIDE THE CAMPUS BOUNDARIES WILL NOT BE DISCONNECTED OR OTHERWISE ALTERED.
3. PROPOSED DRY UTILITIES SHOWN ARE DIAGRAMMATIC. CONTRACTOR SHALL INSTALL ALL CONDUIT WITHIN THE PROPOSED DRY UTILITY EASEMENTS AND MAINTAIN A MINIMUM OF 12" HORIZONTAL CLARENCE BETWEEN PROPOSED FPL AND OTHER FACILITIES. REFER TO ELECTRICAL PLANS FOR DETAILS.
4. THE RELOCATED 16-INCH SANITARY FORCEMAIN SHALL BE CONSTRUCTED IN A MANNER SO THAT IT WILL NOT INTERFERE WITH THE EXISTING 16-INCH SANITARY FORCEMAIN PROVIDING UNINTERRUPTED SERVICE.
5. A 12 FT UTILITY EASEMENT SHALL BE PROVIDED FOR THE WATER MAIN FROM E 22ND CT UP AND INCLUDING THE WATER METER AND BACKFLOW PREVENTER ON AVE B WHICH WILL BE ABANDONED.

FEMA FLOOD MAP: 12099C0393F
FLOOD ZONE X
100 YEAR FLOOD ELEVATION 6.00 NAVD 1988

PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.52' = (NGVD 1929)

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

Always call 811 two full business days before you dig to have underground utilities located and marked.
Sunshine811.com

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

This item has been digitally signed and sealed by Michael D. Spruce, PE (FL PE #52276) on the date noted using a Digital Signature. State of Florida Professional Engineer, License No. 52276. I am the author of this document. 2023.05.09 07:25:31-04'00'
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

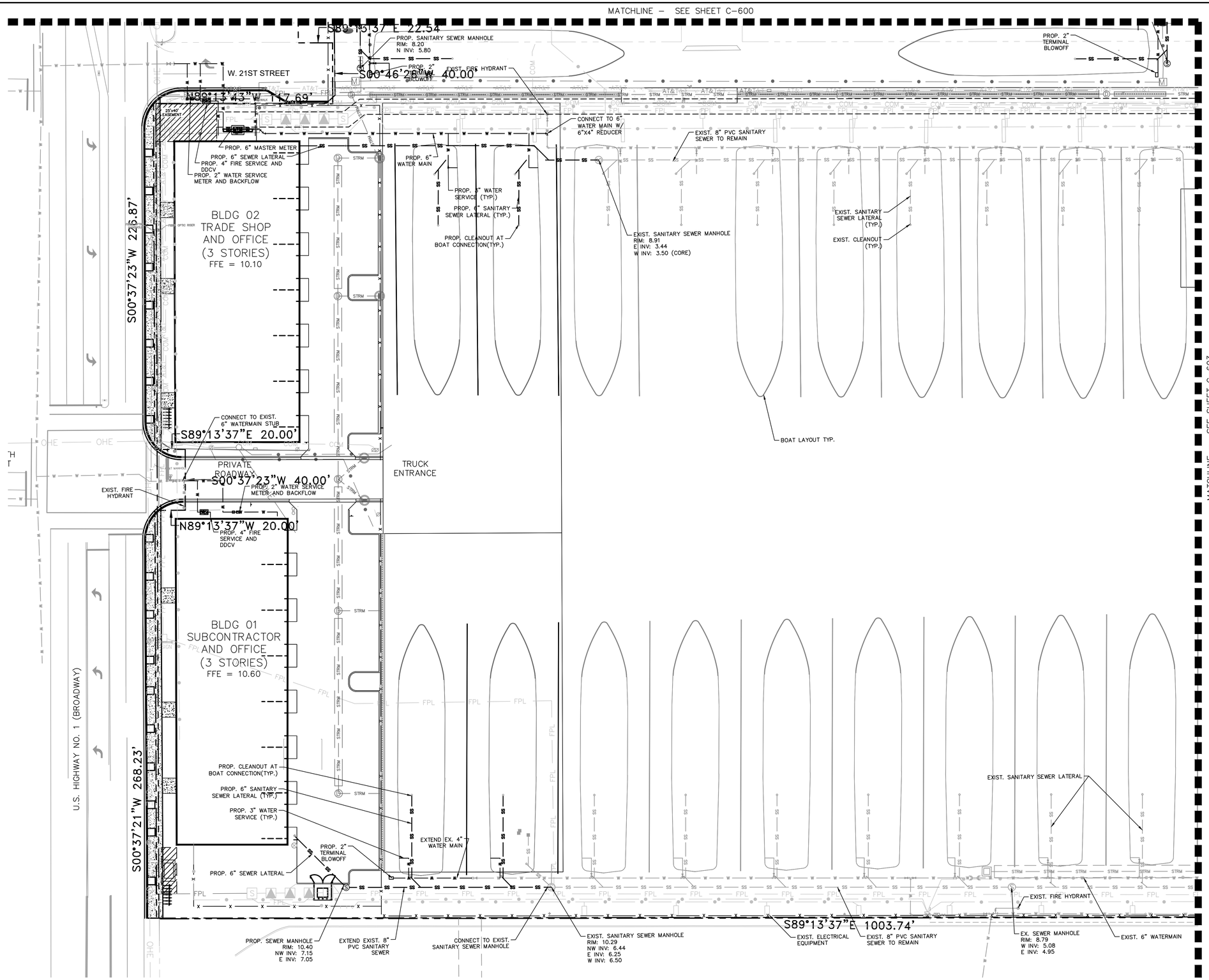
KHA PROJECT	145994004
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	JPL
DRAWN BY	AMS
CHECKED BY	MDS

UTILITY PLAN

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
C-601

Plotted By:Erfle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-601 UTILITY PLAN May 08, 2023 05:46:52pm K:\bcd_civil\145994004 - safe harbor riviera beach\CADD\plansheets\C-600 UTILITY PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



LEGEND

- PROPERTY LINE
- CENTERLINE OF R/W
- UTILITY CROSSING
- PROPOSED SANITARY FORCE MAIN PIPE
- PROPOSED SANITARY PIPE
- PROPOSED SANITARY MANHOLE
- PROPOSED FIRE LINE PIPE
- PROPOSED WATER LINE PIPE
- PROPOSED FIRE HYDRANT
- PROPOSED FIRE DEPARTMENT CONNECTION
- PROPOSED RECLAIMED WATER MAIN PIPE
- PROPOSED IRRIGATION MAIN PIPE
- PROPOSED FIBER OPTIC LINE
- PROPOSED OVERHEAD LINE
- PROPOSED TELEPHONE LINE
- PROPOSED COMMUNICATIONS LINE
- PROPOSED UNDERGROUND ELECTRIC LINE
- PROPOSED FPL LINE
- PROPOSED ELECTRICAL LINE
- PROPOSED GAS LINE
- PROPOSED UTILITY EASEMENTS
- EXISTING SANITARY FORCE MAIN PIPE
- EXISTING SANITARY PIPE
- EXISTING SANITARY MANHOLE
- EXISTING FIRE LINE PIPE
- EXISTING WATER PIPE
- EXISTING FIRE HYDRANT
- EXISTING FIRE DEPARTMENT CONNECTION
- EXISTING WATER PIPE
- EXISTING IRRIGATION MAIN PIPE
- EXISTING FIBER OPTIC LINE
- EXISTING OVERHEAD LINE
- EXISTING TELEPHONE LINE
- EXISTING COMMUNICATIONS LINE
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING FPL LINE
- EXISTING ELECTRICAL LINE
- EXISTING GAS LINE
- EXISTING UTILITY EASEMENTS
- STORM PIPE (SEE PAVING, GRADING AND DRAINAGE PLANS)
- STORM AREA INLET
- STORM CURB INLET
- STORM MANHOLE
- PROPOSED LIGHT POLE (SEE ELECTRICAL PLANS)

UTILITY NOTES

1. SEE SHEET C-610 FOR UTILITY NOTES
2. PUBLIC SANITARY SEWER FACILITIES WITHIN EXISTING RIGHTS-OF-WAY NOTED TO BE ABANDONED WILL BE DEMOLISHED AND REMOVED OR CONVERTED TO PRIVATE USE WITH A TERMINAL MANHOLE UPSTREAM OF REMAINING PUBLIC SANITARY SEWER. PUBLIC POTABLE WATER FACILITIES WITHIN EXISTING RIGHTS-OF-WAY NOTED TO BE ABANDONED WILL BE DEMOLISHED AND REMOVED OR CONVERTED TO PRIVATE USE WITH A MASTER METER AND BACKFLOW PREVENTER OUTSIDE THE PROJECT CAMPUS. PUBLIC DRAINAGE FACILITIES WITHIN EXISTING RIGHTS-OF-WAY NOTED TO BE ABANDONED WILL BE DEMOLISHED AND REMOVED OR CONVERTED TO PRIVATE USE. SERVICES TO EXISTING PUBLIC USERS OUTSIDE THE CAMPUS BOUNDARIES WILL NOT BE DISCONNECTED OR OTHERWISE ALTERED.
3. PROPOSED DRY UTILITIES SHOWN ARE DIAGRAMMATIC. CONTRACTOR SHALL INSTALL ALL CONDUIT WITHIN THE PROPOSED DRY UTILITY EASEMENTS AND MAINTAIN A MINIMUM OF 12" HORIZONTAL CLARENCE BETWEEN PROPOSED FPL AND OTHER FACILITIES. REFER TO ELECTRICAL PLANS FOR DETAILS.
4. A 12 FT UTILITY EASEMENT SHALL BE PROVIDED FOR THE WATER MAIN ON THE PRIVATE ROAD UP AND INCLUDING THE WATER METER AND BACKFLOW PREVENTER.

FEMA FLOOD MAP: 12099C0393F
FLOOD ZONE X
100 YEAR FLOOD ELEVATION 6.00 NAVD 1988

PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.52' = (NGVD 1929)

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

Always call 811 two full business days before you dig to have underground utilities located and marked.
Sunshine811.com

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

This item has been digitally signed and sealed by Michael D. Spruce, PE (FL PE #52776) on the date noted using a Digital Signature. State of Florida, Professional Engineer, License No. 52776
I am the author of this document.
2023.05.09 07:25:33-04'00'
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

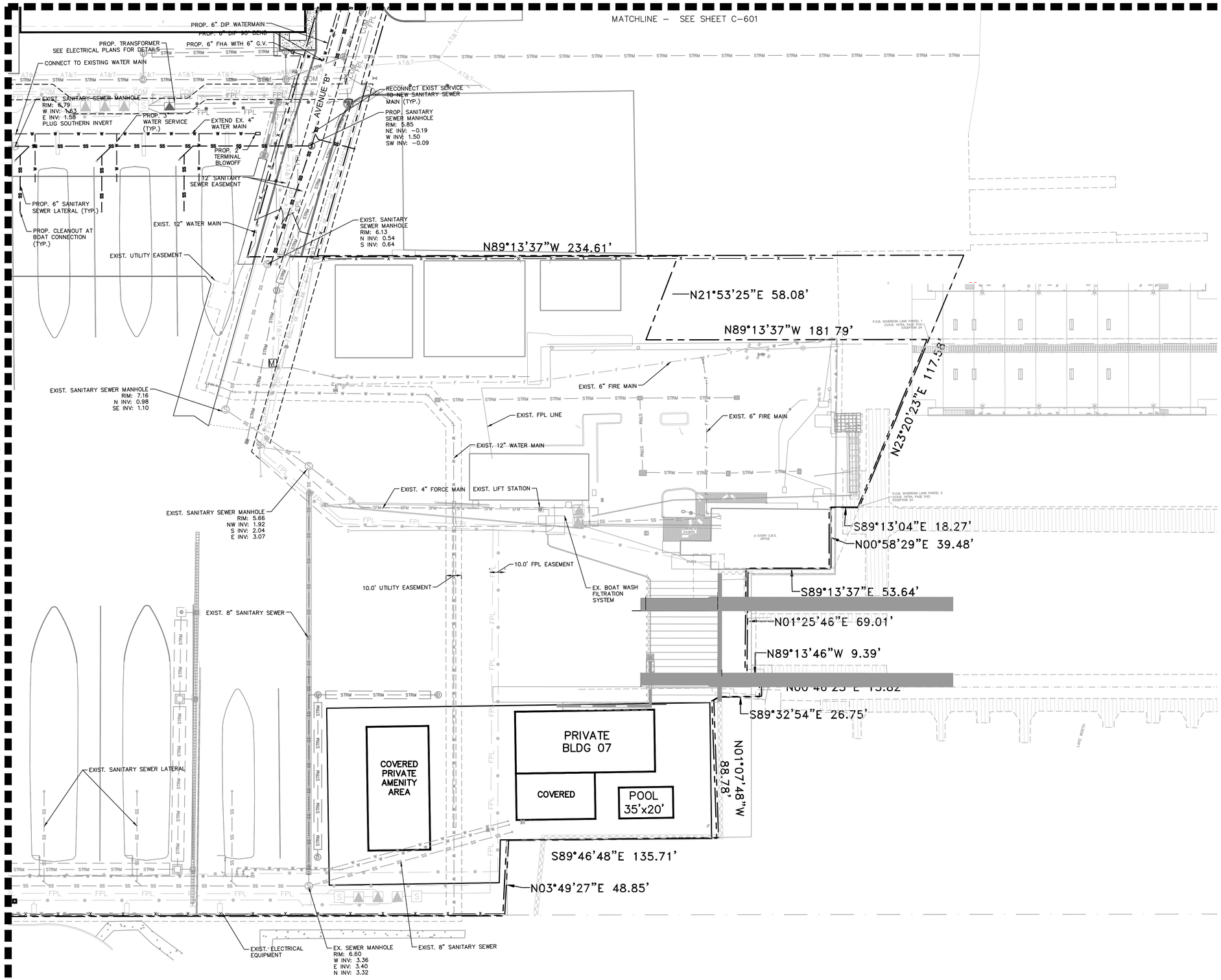
KHA PROJECT	DESIGNED BY	DRAWN BY	CHECKED BY
145994004	JPL	AMS	MDS
DATE: MAY 2023	SCALE: AS SHOWN		

UTILITY PLAN

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
C-602

Plotted By:Erle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-602 UTILITY PLAN May 08, 2023 05:47:07pm K:\Ved_civil\145994004 - safe harbor riviera beach\CADD\planSheets\C-600 UTILITY PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, inc



NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

LEGEND

- PROPERTY LINE
- CENTERLINE OF R/W
- UTILITY CROSSING
- SFM — SFM — PROPOSED SANITARY FORCE MAIN PIPE
- SS — SS — PROPOSED SANITARY PIPE
- PROPOSED SANITARY MANHOLE
- F — F — PROPOSED FIRE LINE PIPE
- W — W — PROPOSED WATER LINE PIPE
- PROPOSED FIRE HYDRANT
- PROPOSED FIRE DEPARTMENT CONNECTION
- RWM — RWM — PROPOSED RECLAIMED WATER MAIN PIPE
- IRM — IRM — PROPOSED IRRIGATION MAIN PIPE
- FO — FO — PROPOSED FIBER OPTIC LINE
- OHL — OHL — PROPOSED OVERHEAD LINE
- T — T — PROPOSED TELEPHONE LINE
- COM — PROPOSED COMMUNICATIONS LINE
- UE — UE — PROPOSED UNDERGROUND ELECTRIC LINE
- FPL — FPL — PROPOSED FPL LINE
- E — PROPOSED ELECTRICAL LINE
- G — G — PROPOSED GAS LINE
- PROPOSED UTILITY EASEMENTS
- SFM — SFM — EXISTING SANITARY FORCE MAIN PIPE
- SS — SS — EXISTING SANITARY PIPE
- EXISTING SANITARY MANHOLE
- F — F — EXISTING FIRE LINE PIPE
- W — W — EXISTING WATER PIPE
- EXISTING FIRE HYDRANT
- EXISTING FIRE DEPARTMENT CONNECTION
- RWM — RWM — EXISTING WATER PIPE
- IRM — IRM — EXISTING IRRIGATION MAIN PIPE
- FO — FO — EXISTING FIBER OPTIC LINE
- OHL — OHL — EXISTING OVERHEAD LINE
- T — T — EXISTING TELEPHONE LINE
- COM — EXISTING COMMUNICATIONS LINE
- UE — UE — EXISTING UNDERGROUND ELECTRIC LINE
- FPL — FPL — EXISTING FPL LINE
- E — E — EXISTING ELECTRICAL LINE
- G — G — EXISTING GAS LINE
- EXISTING UTILITY EASEMENTS
- STRM — STORM PIPE (SEE PAVING, GRADING AND DRAINAGE PLANS)
- STORM AREA INLET
- STORM CURB INLET
- STORM MANHOLE
- PROPOSED LIGHT POLE (SEE ELECTRICAL PLANS)

UTILITY NOTES

1. SEE SHEET C-610 FOR UTILITY NOTES
2. PUBLIC SANITARY SEWER FACILITIES WITHIN EXISTING RIGHTS-OF-WAY NOTED TO BE ABANDONED WILL BE DEMOLISHED AND REMOVED OR CONVERTED TO PRIVATE USE WITH A TERMINAL MANHOLE UPSTREAM OF REMAINING PUBLIC SANITARY SEWER. PUBLIC POTABLE WATER FACILITIES WITHIN EXISTING RIGHTS-OF-WAY NOTED TO BE ABANDONED WILL BE DEMOLISHED AND REMOVED OR CONVERTED TO PRIVATE USE WITH A MASTER METER AND BACKFLOW PREVENTER OUTSIDE THE PROJECT CAMPUS. PUBLIC DRAINAGE FACILITIES WITHIN EXISTING RIGHTS-OF-WAY NOTED TO BE ABANDONED WILL BE DEMOLISHED AND REMOVED OR CONVERTED TO PRIVATE USE. SERVICES TO EXISTING PUBLIC USERS OUTSIDE THE CAMPUS BOUNDARIES WILL NOT BE DISCONNECTED OR OTHERWISE ALTERED.
3. PROPOSED DRY UTILITIES SHOWN ARE DIAGRAMMATIC. CONTRACTOR SHALL INSTALL ALL CONDUIT WITHIN THE PROPOSED DRY UTILITY EASEMENTS AND MAINTAIN A MINIMUM OF 12" HORIZONTAL CLARENCE BETWEEN PROPOSED FPL AND OTHER FACILITIES. REFER TO ELECTRICAL PLANS FOR DETAILS.
4. A 12 FT UTILITY EASEMENT SHALL BE PROVIDED FOR THE 12-INCH WATER MAIN ON AVE B WHICH THE ROW WILL BE ABANDONDED.

FEMA FLOOD MAP: 12099C0393F
FLOOD ZONE X
100 YEAR FLOOD ELEVATION 6.00 NAVD 1988

PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.52' = (NGVD 1929)

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

Always call 811 two full business days before you dig to have underground utilities located and marked.

Sunshine811.com

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

This item has been digitally signed and sealed by Michael D. Spruce, PE (FL PE #52776) on the date noted using a Digital Signature. State of Florida, Professional Engineer, License No. 52776
I am the author of this document.
2023.05.09 07:25:35-04'00'
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

KHA PROJECT 145994004
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

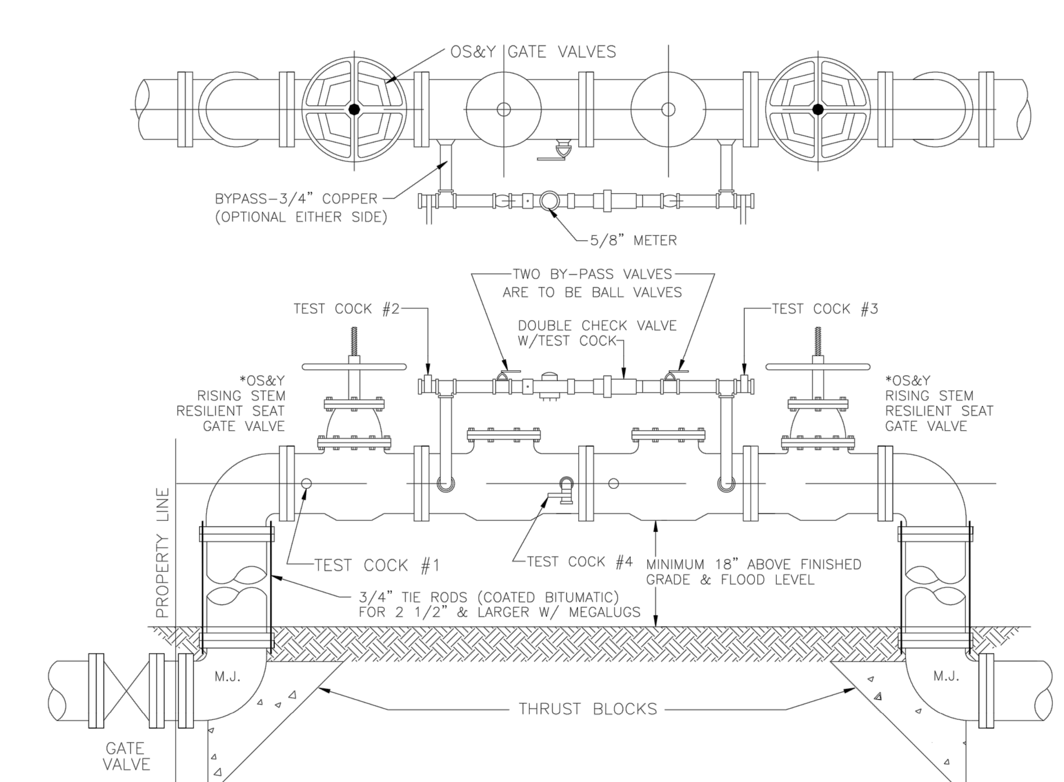
UTILITY PLAN

SAFE HARBOR RIVIERA BEACH

PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
C-603

Plotted By:Erfle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-603 UTILITY PLAN May 08, 2023 08:47:24pm K:\Ved_civil\145994004 — safe harbor riviera beach\CADD\planSheets\C-600 UTILITY PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



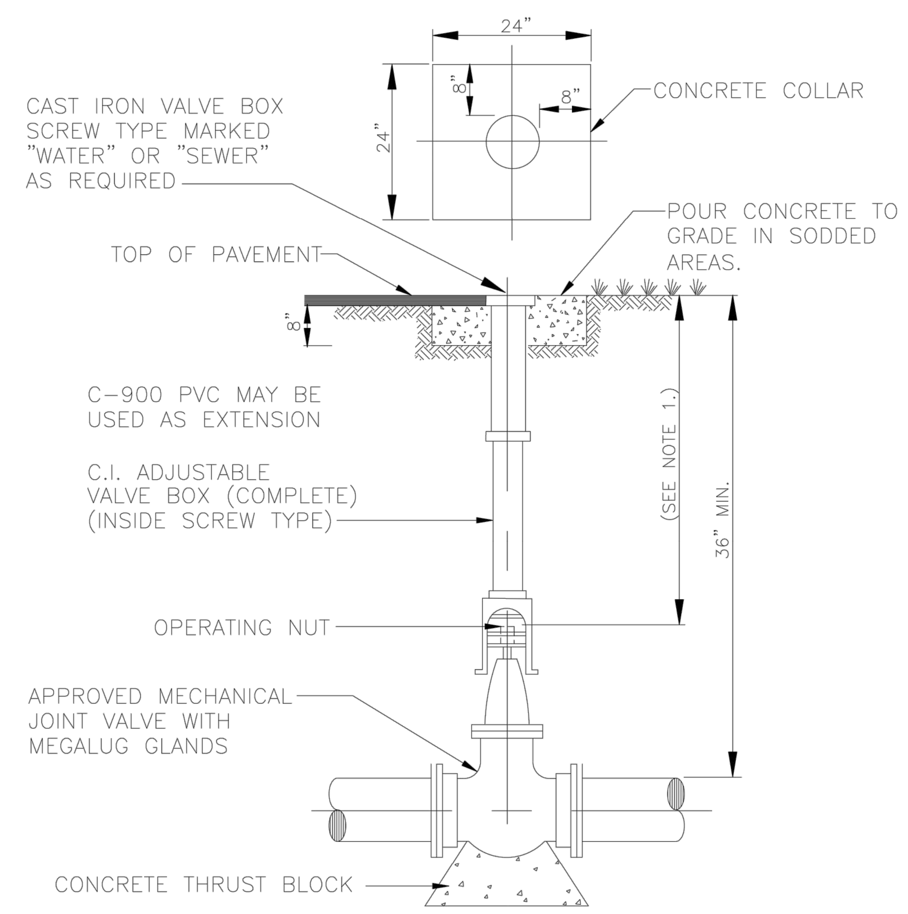
NOTES:

1. ABOVE GROUND INSTALLATION OF 3" & ABOVE REQUIRE RISING STEM O.S. & Y. RESILIENT SEAT GATE VALVES WITH TEST COCKS.
2. INSTALLATION AND CERTIFICATION REQUIRED BY A CERTIFIED BACKFLOW TECHNICIAN PRIOR TO ACCEPTANCE.
3. AN RPZ BACKFLOW PREVENTION ASSEMBLY MUST BE INSTALLED DOWNSTREAM OF THE DOMESTIC AND IRRIGATION METER, 18" – 24" ABOVE FINSHED GRADE ON NON-GALVANIZED METALLIC PIPE. WORK DONE ON THIS DEVICE IS TO BE PERFORMED BY A CERTIFIED BACKFLOW TECHNICIAN AND TEST REPORTS MUST BE SUBMITTED TO THE CITY OF RIVIERA BEACH – UTILITY DISTRICT.

DOUBLE DETECTOR CHECK ASSEMBLY & METER INSTALLATION SIZES: 3", 4", 6", 8", 10"

N.T.S. 05/27/05

Water & Sewer Details
City of Riviera Beach Utility District



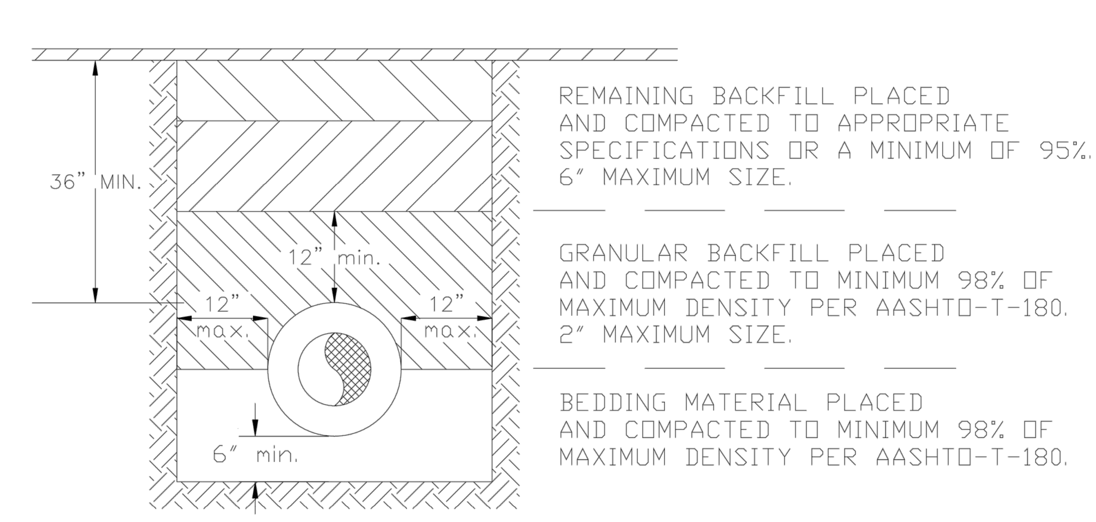
NOTES:

1. WHEN OPERATING NUT IS DEEPER THAN 36" AN EXTENSION WILL BE REQUIRED TO BRING OPERATING NUT 24"–30" BELOW FINISHED GRADE. EXTENSION BOLTS & NUTS ARE TO BE STAINLESS STEEL. A STAINLESS STEEL CENTERING PLATE, WELDED TO THE EXTENSION, IS ALSO REQUIRED.
2. VALVE BOXES SHALL HAVE LOCKING COVERS IN HIGH TRAFFIC ROADWAY AREAS.

TYPICAL GATE VALVE SETTINGS

N.T.S. 05/31/05

Water & Sewer Details
City of Riviera Beach Utility District



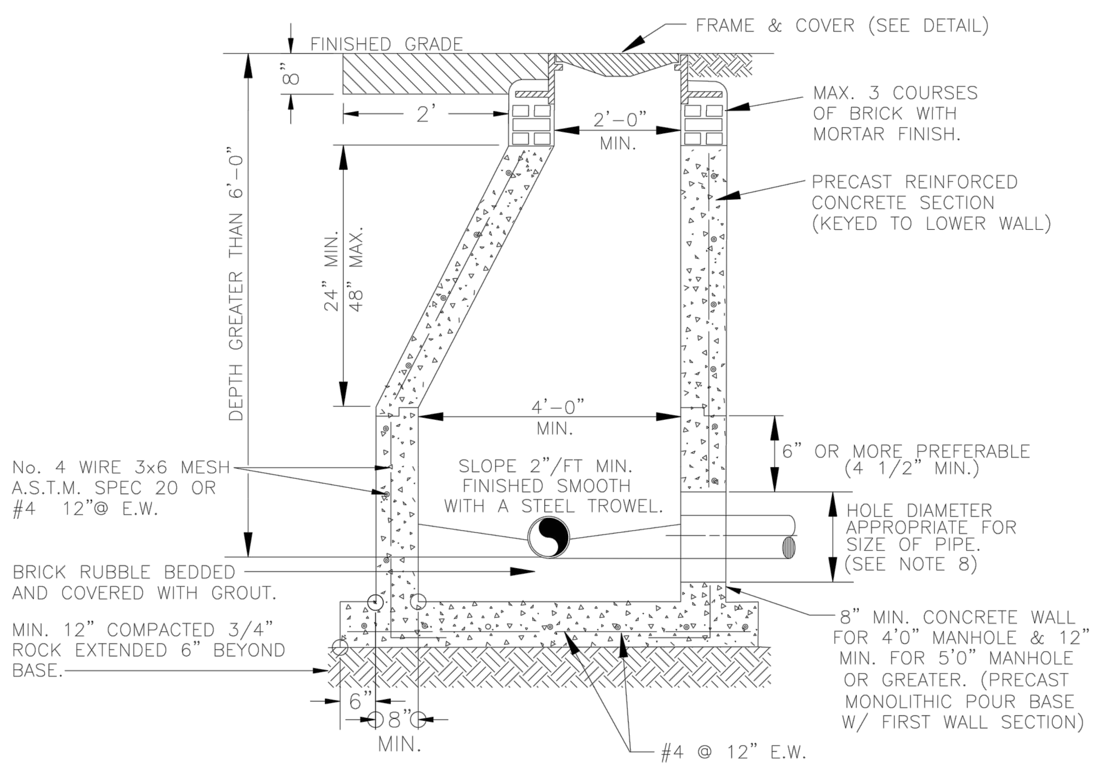
NOTES:

1. BEDDING SHALL CONSIST OF IN-SITU GRANULAR MATERIAL OR WASHED AND GRADED LIMEROCK 3/8"-7/5" SIZING.
2. THE PIPING SHALL BE FULLY SUPPORTED FOR ITS ENTIRE LENGTH WITH APPROPRIATE COMPACTION UNDER THE PIPE HAUNCHES.
3. THE PIPE SHALL BE PLACED IN A DRY TRENCH.
4. BACKFILL SHALL BE FREE OF UNSUITABLE MATERIAL SUCH AS LARGER ROCK, MUCK, AND DEBRIS.
5. DENSITY TESTS ARE REQUIRED IN 1 FOOT LIFTS ABOVE THE PIPE AT INTERVALS OF 400' MAX., OR AS DIRECTED BY THE INSPECTOR.
6. STREET PAVEMEMT 2" ASPHALT, BASE 8" LIMEROCK.

Pavement Replacement Detail

05/27/05

Water & Sewer Details
City of Riviera Beach Utility District



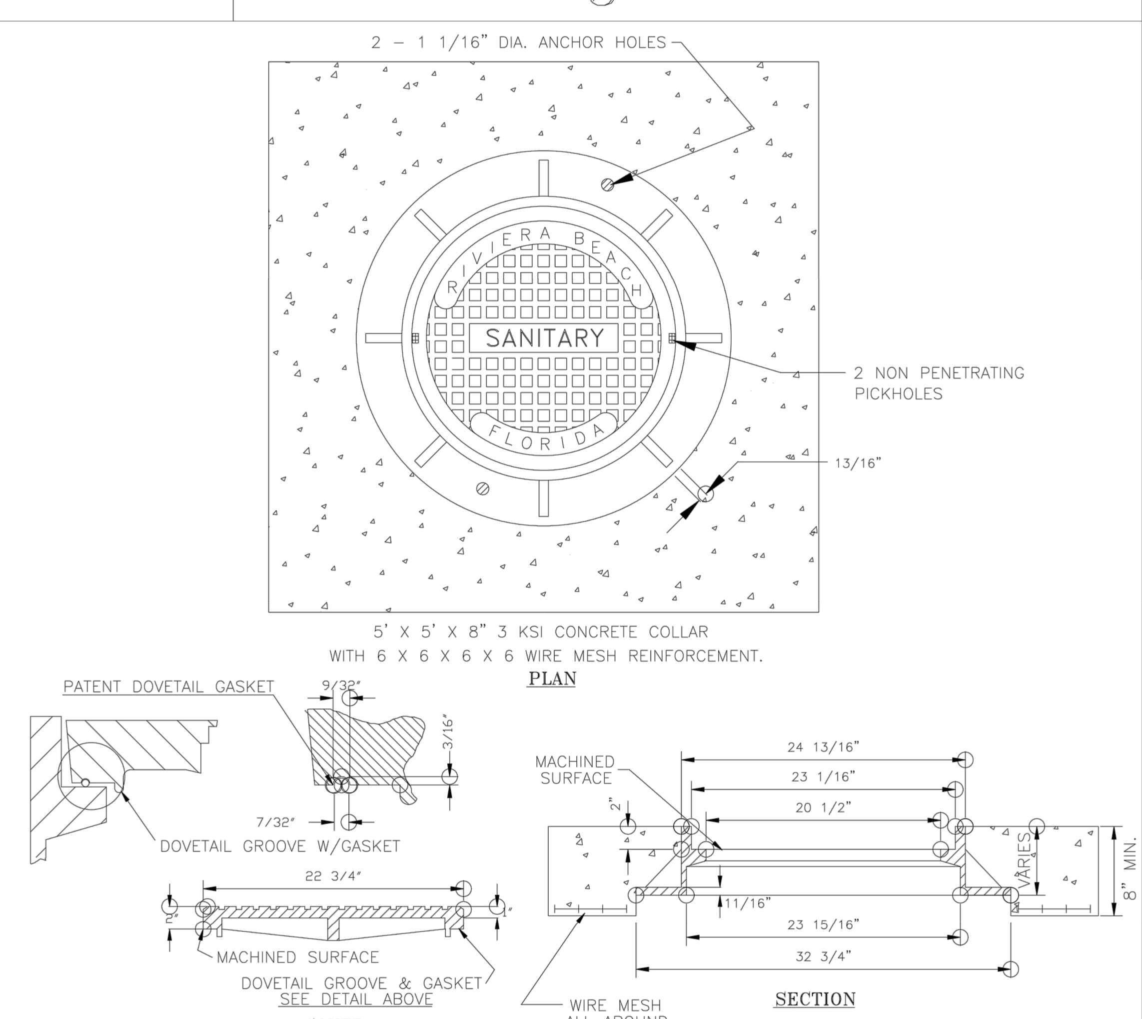
NOTES:

1. PRECAST CONCRETE, TYPE II, ACID RESISTANT, 4000 P.S.I.
2. RAMNEK FLEXIBLE PLASTIC GASKET OR EQUAL AT ALL RISER JOINTS (1/2" THICK, WIDTH AT LEAST HALF THE WALL THICKNESS) WITH NON-SHRINK WATERPROOF GROUT ON INSIDE AND OUTSIDE.
3. ALL OPENINGS SHALL BE SEALED WITH EITHER RESILIENT CONNECTOR (BOOTS) OR P.V.C. MANHOLE ADAPTERS FOR P.V.C. PIPE PENETRATIONS. BOOTS AND ADAPTERS SHALL BE CEMENTED IN WITH NON-SHRINK WATERPROOF GROUT.
4. FLOW CHANNELS SHALL BE CONSTRUCTED TO DIRECT INFLUENT INTO FLOW STREAM, AND SHALL BE FORMED IN ALL MANHOLES TO ACCEPT A T.V. CAMERA.
5. LIFT HOLES ARE PERMITTED, BUT SHALL BE SEALED.
6. ALL PIPE HOLES SHALL BE PRECAST OR CORE-DRILLED, WITH NON-SHRINK, WATER PROOF GROUT.
7. INSIDE DROPS SHALL NOT BE DESIGNED TO EXCEED 1.80 FT. AND NOT CONSTRUCTED TO EXCEED 2.0 FT.
8. MIN. HOLE ø EQUALS PIPE O.D. PLUS 8" FOR P.V.C. ADAPTERS OR PIPE O.D. PLUS 4" FOR BOOTS.
9. MANHOLE FABRICATION SHALL BE IN ACCORDANCE WITH ASTM C-478, LATEST STANDARD.
10. CONDRETE TO BE SEAL COATED WITH 2 COATS OF COAL EPOXY AND 2 COATS OUTSIDE.
11. MANHOLE MUST BE INSPECTED BEFORE PAINTING AND INSTALLATION.

TYPICAL MANHOLE DETAILS

N.T.S. 5/26/05

Water & Sewer Details
City of Riviera Beach Utility District



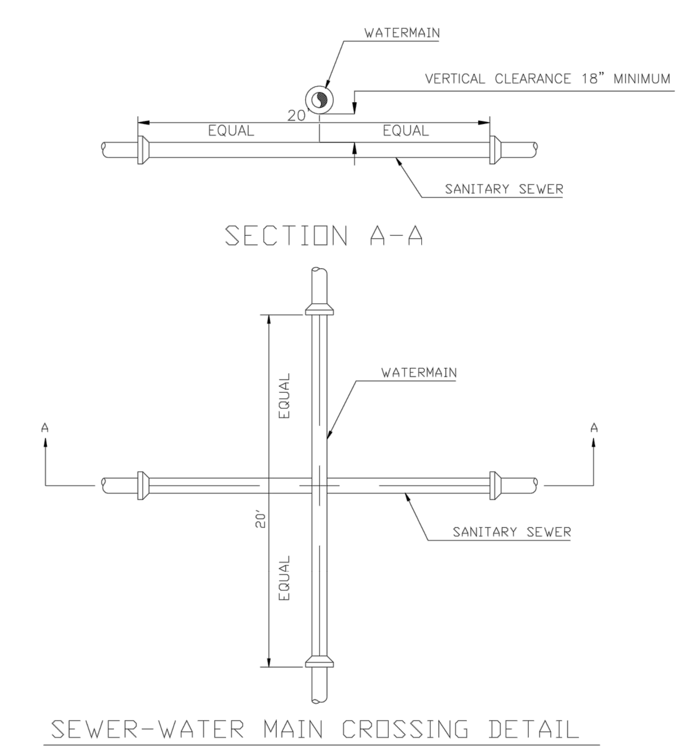
NOTE:

1. FRAME AND COVER SHALL BE U.S. FOUNDRY NO. 402A-AK, VULCAN NO. 1344 OR APPROVED EQUAL FOR 1" DEPTH FRAME, OR U.S. FOUNDRY NO. 465A OR EQUAL FOR 4" DEPTH FRAME.
2. A STEEL MANHOLE RISER (MANHOLE SYSTEMS MODEL MS101) SHALL BE USED TO ELEVATE EXISTING MANHOLE COVERS TO RESURFACE GRADE (MAX. 4" HEIGHT).
3. MANHOLE CASTINGS SHALL BE WATER TIGHT.
4. ALL BEARING SURFACES TO BE MACHINED (IRON TO IRON).
5. FRAME WT.: MIN. 250 LBS. COVER WT.: MIN. 160 LBS.
6. SPECIFY:SANITARY FOR SEWER OR WATER FOR POTABLE WATER

TYPICAL MANHOLE COVER

N.T.S. 05/27/05

Water & Sewer Details
City of Riviera Beach Utility District



SEWER-WATER MAIN CROSSING DETAIL

STANDARD WATER AND SEWER SEPARATION STATEMENT

1. STORM AND SANITARY SEWER CROSSING UNDER WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF EIGHTEEN (18) INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE LOWER PIPE. WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED, THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND WATER MAIN JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN TEN (10) FEET BETWEEN ANY TWO JOINTS AND BOTH PIPES SHALL BE D.I.P. WHERE THERE IS NOT ALTERNATIVE TO SEWER PIPES CROSSING OVER A WATER MAIN, THE CRITERIA FOR MINIMUM SEPARTION BETWEEN LINES AND JOINTS IN THE ABOVE, SHALL BE REQUIRED AND BOTH PIPES SHALL BE D.I.P. IRRESPECTIVE OF SEPARATION.
2. MAINTAIN TEN (10) FEET HORIZONTAL DISTANCE BETWEEN WATER MAIN AND STORM OR SANITARY SEWER MAIN, AS A MINIMUM.
3. FORCE MAIN CROSSING WATER MAIN SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF EIGHTEEN (18) INCHES BETWEEN THE OUTSIDE OF THE FORCE MAIN AND OUTSIDE OF THE WATER MAIN WITH WATER MAIN CROSSING OVER THE FORCE MAIN.

05/27/05

Water & Sewer Details
City of Riviera Beach Utility District

UTILITY NOTES

1. CONTRACTOR SHALL FURNISH AND INSTALL NECESSARY PIPE AND FITTINGS TO TRANSITION PIPE MATERIALS WHEN REQUIRED AND TO CONNECT TO BUILDING PLUMBING.
2. CONTRACTOR SHALL SUPPORT AND PROTECT ALL EXISTING UTILITIES WHEN CONSTRUCTING NEW UTILITIES.
3. ALL MANHOLES, VALVES, CLEANOUTS AND OTHER SUCH BOXES IN PAVEMENT OR SIDEWALKS SHALL BE SET FLUSH WITH PAVEMENT TO MATCH THE PROPOSED SLOPE AND SHALL BE H-20 TRAFFIC RATED.
4. ANY TREES OR SHRUBS PLACED WITHIN WATER, SEWER, OR DRAINAGE EASEMENTS SHALL CONFORM TO THE CITY OF RIVIERA BEACH STANDARD DETAILS.
5. NO PROPOSED IMPROVEMENTS, BUILDINGS OR ANY KIND OF CONSTRUCTION CAN BE PLACED ON OR WITHIN ANY WATER, SEWER, OR DRAINAGE EASEMENTS, UNLESS APPROVED BY THE CITY OF RIVIERA BEACH CITY ENGINEER.
6. NO PROPOSED STRUCTURES SHALL BE INSTALLED WITHIN A HORIZONTAL DISTANCE OF 10-FEET FROM ANY EXISTING OR PROPOSED WATER, SEWER, OR DRAINAGE FACILITIES, UNLESS APPROVED BY THE CITY OF RIVIERA BEACH CITY ENGINEER.
7. ALL WATER MAIN (WM) SHALL BE PVC C-900 DR-18 UNLESS OTHERWISE NOTED.
8. ALL FIRE MAIN (FM) SHALL BE DIP WITH ALL JOINTS RESTRAINED WITH MEGALUGS UNLESS OTHERWISE NOTED. ALL FIRE MAIN SHALL BE LAID AT 36" MIN. COVER. ALL FIRE RELATED CONSTRUCTION SHALL FOLLOW THE FLORIDA FIRE PREVENTION CODE 5TH EDITION – FLORIDA SPECIFIC NFPA 1, FIRE CODE, 2012 EDITION AND FLORIDA SPECIFIC NFPA 101, LIFE SAFETY CODE, 2012 EDITION.
9. ALL DUCTILE IRON PIPE (DIP) SHALL BE CLASS 350 UNLESS OTHERWISE NOTED. ALL DIP SHALL BE MARKED PER FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) STANDARDS.
10. ALL NEW FIRE HYDRANTS SHALL HAVE "OUT OF SERVICE" SIGNS AFFIXED AT TIME OF INSTALLATION. SIGNS SHALL REMAIN IN PLACE UNTIL THE WATER SYSTEM IS CLEARED FOR USE.
11. ALL WATER MAIN AND FORCE MAINS SHALL HAVE A MINIMUM 36" COVER OVER THE TOP OF THE PIPE UNLESS OTHERWISE NOTED. WATER AND FIRE MAINS SHALL HAVE MIN. 6" VERTICAL SEPARATION FROM EACH OTHER.
12. A MINIMUM HORIZONTAL DISTANCE OF 10 FEET MUST BE PROVIDED BETWEEN WATER MAINS AND STORM OR SANITARY SEWERS.ALL FITTINGS FOR WATER MAIN AND FIRE MAIN SHALL BE DUCTILE IRON MECHANICAL JOINT FITTINGS UNLESS OTHERWISE NOTED.
13. WATER METER SIZES SHALL BE DESIGNED BY ENGINEER OF RECORD AND SHALL BE CHECKED AND AUTHORIZED BY CITY OF RIVIERA BEACH UTILITIES DIVISION.
14. PIPE DEFLECTION OF WATER MAIN AND FIRE MAIN SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATIONS.
15. ALL GRAVITY SEWER MAINS SHALL BE PVC SDR-26 UNLESS OTHERWISE NOTED
16. ALL GRAVITY SEWER LATERALS SHALL BE PVC SDR-35 UNLESS OTHERWISE NOTED.
17. ALL SEWER FORCE MAIN (SFM) SHALL BE PVC C-900 DR-18 UNLESS OTHERWISE NOTED. ALL SEWER FORCE MAIN IS PRIVATE.
18. ANY VITRIFIED CLAY PIPE (VCP) DAMAGED BY NEW CONSTRUCTION OR CONNECTIONS SHALL BE REPLACED WITH NEW SANITARY SEWER MAIN PIPE.
19. SANITARY SEWER PIPE LENGTHS ARE MEASURED FROM CENTER OF MANHOLE TO CENTER OF MANHOLE. CONTRACTOR SHALL ADJUST LIMITS OF PVC TO DIP AS SHOWN IN PROFILE.
20. ALL SEWER LATERALS SHALL BE CONNECTED TO SEWER MAIN AND NOT DIRECTLY INTO SEWER MANHOLES.
21. EXISTING WATER MAIN AND SEWER MAIN SHALL BE REMOVED AFTER PROPOSED WATER MAIN AND/OR SEWER MAIN HAS BEEN TESTED AND ACCEPTED BY PALM BEACH COUNTY HEALTH DEPARTMENT AND EXISTING SERVICES HAVE BEEN RELOCATED.
22. PROPOSED WATER AND SEWER IMPROVEMENTS IN PRIVATE PROPERTY SHALL MEET PALM BEACH COUNTY HEALTH DEPARTMENT SEPARATION REQUIREMENTS, THESE CONFLICTS WILL BE ADDRESS DURING CONSTRUCTION AND WON'T AFFECT THE PUBLIC SAFETY.
23. CONTRACTOR SHALL COORDINATE UNDERGROUND ELECTRIC SERVICE CONNECTION WITH FPL FOR CONDUIT SIZE AND BURIED DEPTH REQUIREMENT.
24. THE CITY OF RIVIERA BEACH UTILITIES DIVISION MUST BE GIVEN AT LEAST 48 HOURS NOTIFICATION PRIOR TO ANY SHUT-DOWN AND/OR REMOVAL OF EXISTING WATER MAIN OR SANITARY SEWER LINES.
25. CITY MAINTAINED UTILITIES WILL NEED TO BE TESTED AND PROTECTED (IE. PAVED AT LEAST UP TO FIRST LIFT, IF NOT ROADWAY) PRIOR TO ISSUANCE OF CERTIFICATION OF OCCUPANCY.
26. LEAD FREE BRASS WATER WORKS PRODUCTS SHALL MEET THE REQUIREMENT OF ASNI/AWWA C800 AND THE MAXIMUM LEAD CONTENT OF S.3872 AND NSF 61 ANNEX G. THE MANUFACTURER'S DESIGNATION AS A LEAD FREE PRODUCT SHALL BE PERMANENTLY STAMPED OR CAST INTO THE PRODUCT'S BODY. EFFECTIVE JANUARY 1, 2013, ONLY LEAD FREE BRASS WATER WORKS PRODUCTS SHALL BE INSTALLED IN CONTACT WITH POTABLE WATER.
27. ALL PROPOSED BACKFLOW PREVENTERS AND DOUBLE DETECTOR CHECK VALVES SHALL BE USC CERTIFIED AND LEAD FREE.

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE, SUITE 201, DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

This item has been digitally signed and sealed by Michael D. Spruce, PE (FL PE #52776) on the date noted using a Digital Signature. State of Florida, Professional Engineer, License No. 52776
I am the author of this document.
2023.05.09 07:25:37-04'00'
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

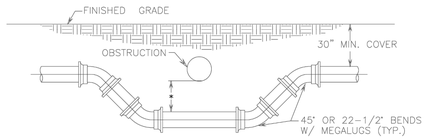
KHA PROJECT 145994004
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

UTILITY DETAILS

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

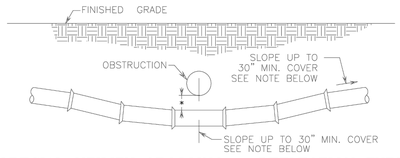
SHEET NUMBER
C-610

Plotted By: Erfle, Chris Sheet Set: SAFE HARBOR RIVIERA BEACH Layout: C-610 UTILITY DETAILS May 08, 2023 06:48:10pm K:\bcd_civil\145994004 – safe harbor riviera beach\CADD\plansheets\C-610 UTILITY DETAILS.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



SPECIAL UTILITY CROSSING – FITTING TYPE

* UNLESS SHOWN OTHERWISE, 18" MIN. CLEARANCE WILL BE REQUIRED FOR WATER & SEWER MAIN CROSSING. 4" MIN. CLEARANCE WILL BE REQUIRED FOR OTHER TYPE OF UTILITIES CROSSING.



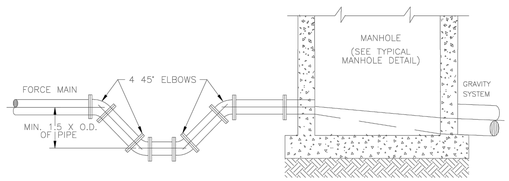
SPECIAL UTILITY CROSSING – DEFLECTION TYPE

NOTES:

1. THE DEFLECTION TYPE CROSSING SHALL BE USED WHERE EVER POSSIBLE. ONLY UNDER SPECIFIC ORDERS BY THE ENGINEER SHALL THE FITTING TYPE CROSSING BE ALLOWED.
2. CONSTRUCT STANDARD CROSSING USING 75% OF MANUFACTURERS MAXIMUM JOINT DEFLECTION (MAX.).
3. ALL MECHANICAL JOINTS MEGALUG
4. FITTINGS TO BE RESTRAINED WITH RETURN GLANDS AND EITHER THRUST BLOCKS OR TIE RODS.
5. ALL EXPOSED TIE RODS SHALL BE COATED WITH COAL TAR EPOXY.

FORCE MAIN CROSSING

N.T.S. 05/31/05

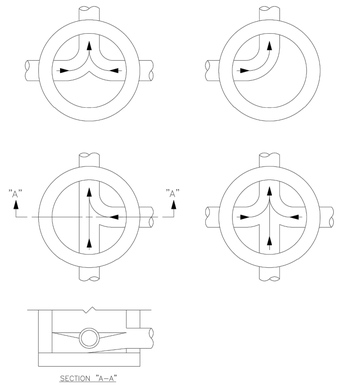


NOTES:

1. FORCE MAIN TO ENTER MANHOLE AS CLOSE AS POSSIBLE TO 180° TO GRAVITY OUTLET.
2. THE INVERT LEVEL OF FORCE MAIN AT POINT OF ENTRY SHALL BE NO MORE THAN 6" ABOVE INVERT OF MANHOLE.
3. CORE ENTRY ONLY INTO EXISTING MANHOLES.
4. TRAP TO BE LOCATED PRIOR TO DROP INTO MANHOLE AND OUTSIDE OF PAVED AREAS, IF POSSIBLE
5. USE TWO 45° ELBOWS PAST TRAP IF ELEVATION DROP IS REQUIRED TO ENTER MANHOLE.
6. FLOW CHANNEL REQUIRED.
7. MANHOLE AND FLOW CHANNEL TO HAVE TWO DIFFERENT COLORED COATS OF 100% SOLIDS EPOXY LINER.
8. FORCE MAINS SHALL BE A MINIMUM OF 4" I.D. EPOXY-LINED D.I.P.
9. ALL MECHANICAL JOINTS TO USE MEGALUG OR EQUAL.

FORCE MAIN ENTERING MANHOLE

N.T.S. 05/31/05

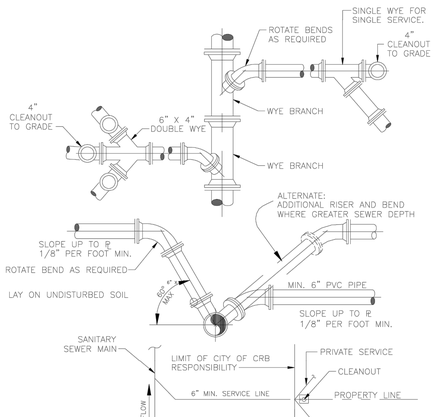


NOTES:

1. ALL INVERT CHANNELS ARE TO BE CONSTRUCTED FOR SMOOTH FLOW WITHOUT OBSTRUCTION.
2. PROPERLY SHAPED SPILLWAYS SHALL BE CONSTRUCTED BETWEEN PIPES WITH DIFFERENT INVERT ELEVATIONS TO PROVIDE FOR SMOOTH FLOWS.
3. SERVICE LATERALS ENTERING MANHOLES SPECIFIED ON PLANS MUST HAVE FLOW CHANNELS.
4. BRICKS AND CONCRETE RUBBLE PERMITTED FOR FLOW CHANNEL BUILDUP.
5. SIDEWALLS OF FLOW CHANNEL SHALL BE AT LEAST HALF OF PIPE HEIGHT AT ALL POINTS.

TYPICAL INVERT FLOW CHANNELS

N.T.S. 5/29/97 INVFLOW

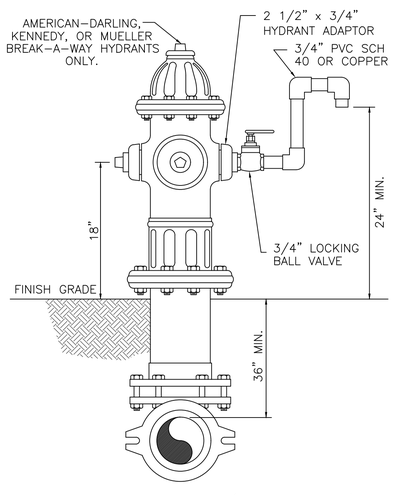


NOTES:

1. SERVICE LATERALS SHALL TERMINATE AT PROPERTY LINE AT A DEPTH OF 3 FEET.
2. CLEANOUT CONNECTION TO BE EXTENDED 3 FEET ABOVE GRADE PRIOR TO WATER METER INSTALLATION.
3. CLEANOUTS ARE TO BE SET TO GRADE PRIOR TO WATER METER ACTIVATION.
4. NO 90° BENDS SHALL BE PERMITTED FOR SEWER SERVICE AND CLEANOUT INSTALLATION.

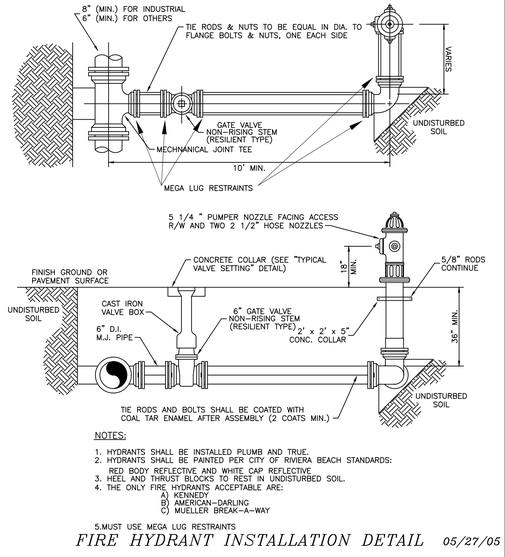
TYPICAL LATERAL CONNECTIONS

N.T.S. 5/27/05



SAMPLE POINT (HYDRANT)

N.T.S. 05/27/05



NOTES:

1. HYDRANTS SHALL BE INSTALLED PLUMB AND TRUE.
2. HYDRANTS SHALL BE PAINTED PER CITY OF RIVIERA BEACH STANDARDS: RED BODY REFLECTIVE AND WHITE CAP REFLECTIVE
3. HEEL AND THRUST BLOCKS TO REST IN UNDISTURBED SOIL.
4. THE ONLY FIRE HYDRANTS ACCEPTABLE ARE:
   A) KENNEDY
   B) AMERICAN-DARLING
   C) MUELLER BREAK-A-WAY
5. MUST USE MEGA LUG RESTRAINTS

FIRE HYDRANT INSTALLATION DETAIL

05/27/05

Water & Sewer Details

City of Riviera Beach Utility District

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

No.	REVISIONS	DATE	BY

This item has been digitally signed and sealed by Michael D. Spruce, PE (FL PE #52776) on the date noted using a Digital Signature. State of Florida, Professional Engineer, License No. 52776 | am the author of this document. 2023.05.09 07:25:39-04'00' Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

KHA PROJECT	145994004
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	JPL
DRAWN BY	AMS
CHECKED BY	MDS

UTILITY DETAILS

SAFE HARBOR RIVIERA BEACH

PREPARED FOR

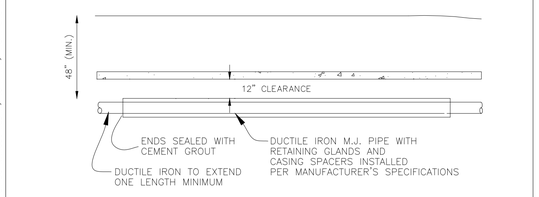
SAFE HARBOR MARINAS

RIVIERA BEACH FL

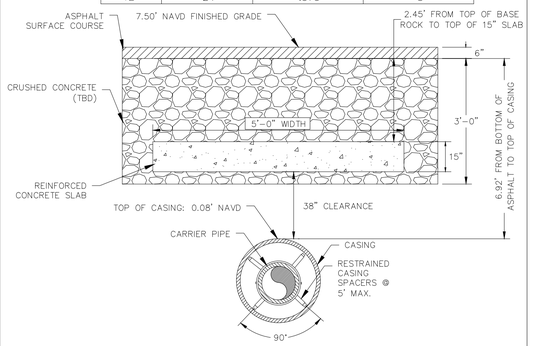
SHEET NUMBER

C-611

Plotted By: Erfle, Chris Sheet Set: SAFE HARBOR RIVIERA BEACH Layout: C-611 UTILITY DETAILS May 08, 2023 06:48:18pm K:\Wpb_civil\145994004 - safe harbor riviera beach\CAD\plansheets\C-610 UTILITY DETAILS.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

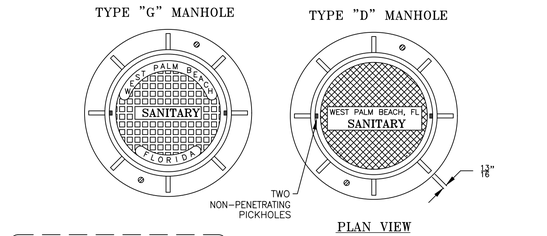


CARRIER PIPE SIZE	MINIMUM STEEL CASING	MINIMUM WALL THICKNESS	MINIMUM SLAB THICKNESS
4"	8"	.1875	8"
12"	24"	.375	8"



UTILITY PROTECTION DETAIL

N.T.S.



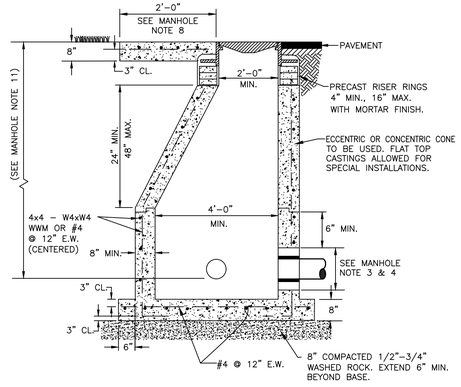
NOTES:

1. PROVIDE U.S. FOUNDRY NO. 240 RING, OR APPROVED EQUAL, WITH COVER TYPE "G" IN PAVED OR GRASSED AREAS, TYPE "D" IN SIDEWALK AND DRIVEWAY AREAS.
2. MANHOLES LOCATED ON PRIVATE PROPERTY SHALL NOT HAVE "WEST PALM BEACH" EMBOSSED ON THEM.
3. IF MANHOLE LIDS ARE NOT FURNISHED WITH THE O-RINGS, USE CRETEX MANHOLE LID GASKET, CRETEX PRODUCTS, WAUKESHA, WISCONSON (OR APPROVED EQUAL)

   COLLAR/FRAME WEIGHT: 195 LBS. (APPROX.)
   COVER WEIGHT: TYPE "D" 125 LBS. (APPROX.), TYPE "G" 130 LBS. (APPROX.)

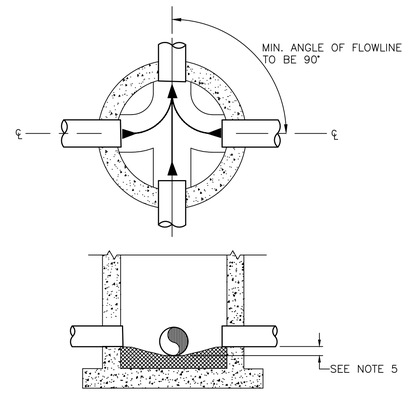
MANHOLE FRAME/COLLAR AND COVER

N.T.S.



MANHOLE

N.T.S.

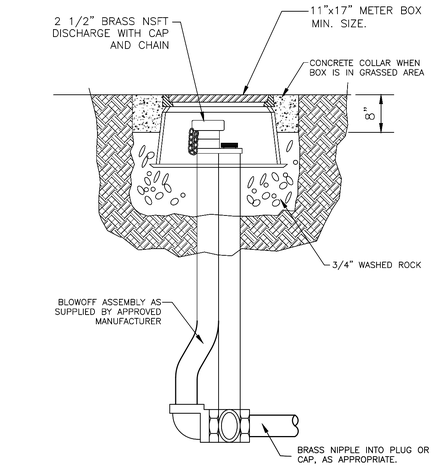


NOTES:

1. PROPERLY SHAPED FLOW CHANNELS SHALL BE CONSTRUCTED BETWEEN PIPES SUCH AS TO PROVIDE FOR SMOOTH FLOW BETWEEN THE INFLUENT PIPE(S) AND THE EFFLUENT PIPE.
2. SERVICE LATERALS ENTERING MANHOLES, MUST BE APPROVED BY THE PUBLIC UTILITIES DEPARTMENT. FLOW CHANNELS SHALL BE PROVIDED.
3. FLOW CHANNELS SHALL BE CONSTRUCTED WITH 6" BRICK RUBBLE, BEDDED AND COVERED WITH 2" MIN. TYPE II PORTLAND CEMENT GROUT.
4. SIDE WALLS OF FLOW CHANNEL(S) SHALL BEGIN AT SPRING LINE OF EACH PIPE, AND SHALL BE SLOPED TO MATCH FLOW LINE.
5. PROVIDE 0.1 FOOT MINIMUM DROP THROUGH MANHOLE BETWEEN HIGHEST INVERT AND LOWEST INVERT.
6. FORCE MAIN TO ENTER MANHOLE AT 180° ±10° FROM GRAVITY OUTFLOW.

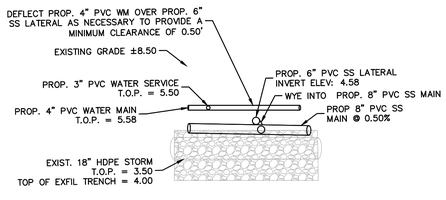
SEWER FLOW CHANNELS

N.T.S.

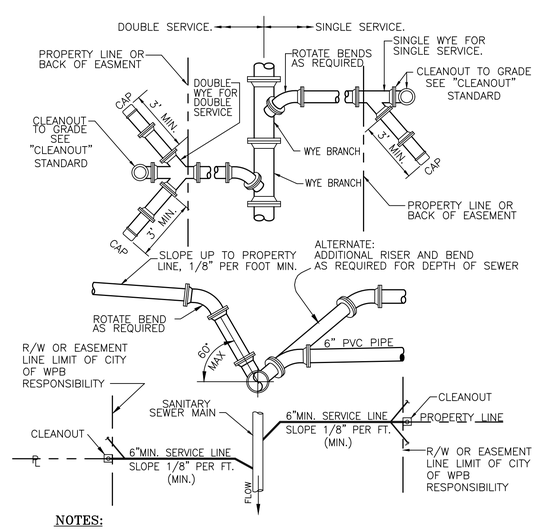


2" TERMINAL BLOW-OFF

N.T.S.



UTILITY SERVICE CROSSING DETAIL

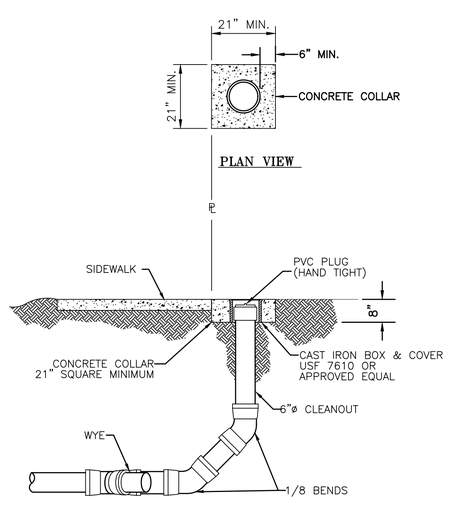


NOTES:

1. SERVICE LATERALS SHALL TERMINATE INSIDE PROPERTY LINE AT A COVER DEPTH OF 3 FEET MIN. HOWEVER, WHERE LOT SIZE IS SUCH THAT ADDITIONAL COVER IS REQUIRED TO MAINTAIN PLUMBING CODE REQUIREMENT FOR EFFLUENT PIPE FALL, COVER SHALL BE INCREASED ACCORDINGLY.
2. CLEAN OUT CONNECTION TO BE INSTALLED WITH 3 FT. MIN COVER, WITH LOCATING DEVICE. THEY ARE THEN TO BE RAISED TO FINISHED GRADE PRIOR TO WATER METER ACTIVATION.

HOUSE LATERAL CONNECTIONS

N.T.S.



CROSS SECTION

NOTE:

1. WHEN SERVICE LINE DEPTH EXCEEDS 7 FT. OF COVER, WYE MAY BE INSTALLED ON VERTICAL SECTION WITH 3 FT. MIN. COVER.
2. CLEAN-OUT DETAILS ARE TO FOLLOW TO THE LAST CLEAN-OUT PRIOR TO THE LINE ENTERING THE BUILDING.

CLEAN OUT

N.T.S.

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

This item has been digitally signed and sealed by Michael D. Spruce, PE [FL PE #52776] on the date noted using a Digital Signature. State of Florida, Professional Engineer, License No. 52776
I am the author of this document.
2023.05.09 07:25:41-04'00'
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

KHA PROJECT 145994004	DATE MAY 2023	SCALE AS SHOWN	DESIGNED BY JPL	DRAWN BY AMS	CHECKED BY MDS

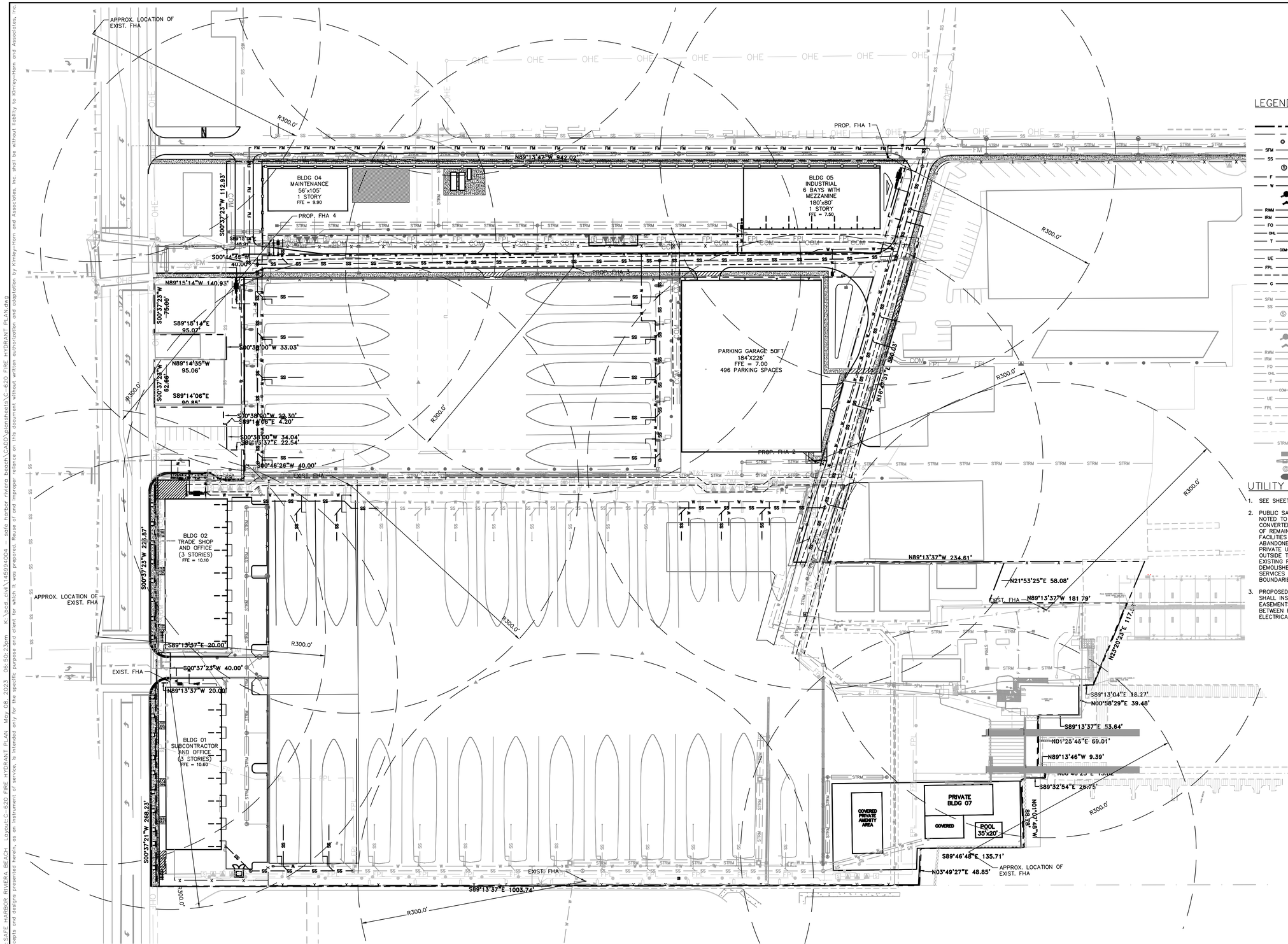
UTILITY DETAILS

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
C-612

Plotted By:Erik, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-612 UTILITY DETAILS May 08, 2023 06:48:21pm K:\bcd_civil\145994004 - safe harbor riviera beach\CADD\plansheets\C-610 UTILITY DETAILS.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

Plotted By:Erfle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-620 FIRE HYDRANT PLAN May 08, 2023 08:50:23pm K:\bod-civil\145994004 — safe harbor riviera beach\CAD\plansheets\C-620 FIRE HYDRANT PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



LEGEND

- PROPERTY LINE
- CENTERLINE OF R/W
- UTILITY CROSSING
- PROPOSED SANITARY FORCE MAIN PIPE
- PROPOSED SANITARY PIPE
- PROPOSED SANITARY MANHOLE
- PROPOSED FIRE LINE PIPE
- PROPOSED WATER LINE PIPE
- PROPOSED FIRE HYDRANT
- PROPOSED FIRE DEPARTMENT CONNECTION
- PROPOSED RECLAIMED WATER MAIN PIPE
- PROPOSED IRRIGATION MAIN PIPE
- PROPOSED FIBER OPTIC LINE
- PROPOSED OVERHEAD LINE
- PROPOSED TELEPHONE LINE
- PROPOSED COMMUNICATIONS LINE
- PROPOSED UNDERGROUND ELECTRIC LINE
- PROPOSED FPL LINE
- PROPOSED ELECTRICAL LINE
- PROPOSED GAS LINE
- PROPOSED UTILITY EASEMENTS
- EXISTING SANITARY FORCE MAIN PIPE
- EXISTING SANITARY PIPE
- EXISTING SANITARY MANHOLE
- EXISTING FIRE LINE PIPE
- EXISTING WATER PIPE
- EXISTING FIRE HYDRANT
- EXISTING FIRE DEPARTMENT CONNECTION
- EXISTING WATER PIPE
- EXISTING IRRIGATION MAIN PIPE
- EXISTING FIBER OPTIC LINE
- EXISTING OVERHEAD LINE
- EXISTING TELEPHONE LINE
- EXISTING COMMUNICATIONS LINE
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING FPL LINE
- EXISTING ELECTRICAL LINE
- EXISTING GAS LINE
- EXISTING UTILITY EASEMENTS
- STORM PIPE (SEE PAVING, GRADING AND DRAINAGE PLANS)
- STORM AREA INLET
- STORM CURB INLET
- STORM MANHOLE
- PROPOSED LIGHT POLE (SEE ELECTRICAL PLANS)

UTILITY NOTES

1. SEE SHEET C-610 FOR UTILITY NOTES
2. PUBLIC SANITARY SEWER FACILITIES WITHIN EXISTING RIGHTS-OF-WAY NOTED TO BE ABANDONED WILL BE DEMOLISHED AND REMOVED OR CONVERTED TO PRIVATE USE WITH A TERMINAL MANHOLE UPSTREAM OF REMAINING PUBLIC SANITARY SEWER. PUBLIC POTABLE WATER FACILITIES WITHIN EXISTING RIGHTS-OF-WAY NOTED TO BE ABANDONED WILL BE DEMOLISHED AND REMOVED OR CONVERTED TO PRIVATE USE WITH A MASTER METER AND BACKFLOW PREVENTER OUTSIDE THE PROJECT CAMPUS. PUBLIC DRAINAGE FACILITIES WITHIN EXISTING RIGHTS-OF-WAY NOTED TO BE ABANDONED WILL BE DEMOLISHED AND REMOVED OR CONVERTED TO PRIVATE USE. SERVICES TO EXISTING PUBLIC USERS OUTSIDE THE CAMPUS BOUNDARIES WILL NOT BE DISCONNECTED OR OTHERWISE ALTERED.
3. PROPOSED DRY UTILITIES SHOWN ARE DIAGRAMMATIC. CONTRACTOR SHALL INSTALL ALL CONDUIT WITHIN THE PROPOSED DRY UTILITY EASEMENTS AND MAINTAIN A MINIMUM OF 12" HORIZONTAL CLARENCE BETWEEN PROPOSED FPL AND OTHER FACILITIES. REFER TO ELECTRICAL PLANS FOR DETAILS.

FEMA FLOOD MAP: 12099C0393F
FLOOD ZONE X
100 YEAR FLOOD ELEVATION 6.00 NAVD 1988

PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.52' = (NGVD 1929)

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

Always call 811 two full business days before you dig to have underground utilities located and marked.
Sunshine811.com

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

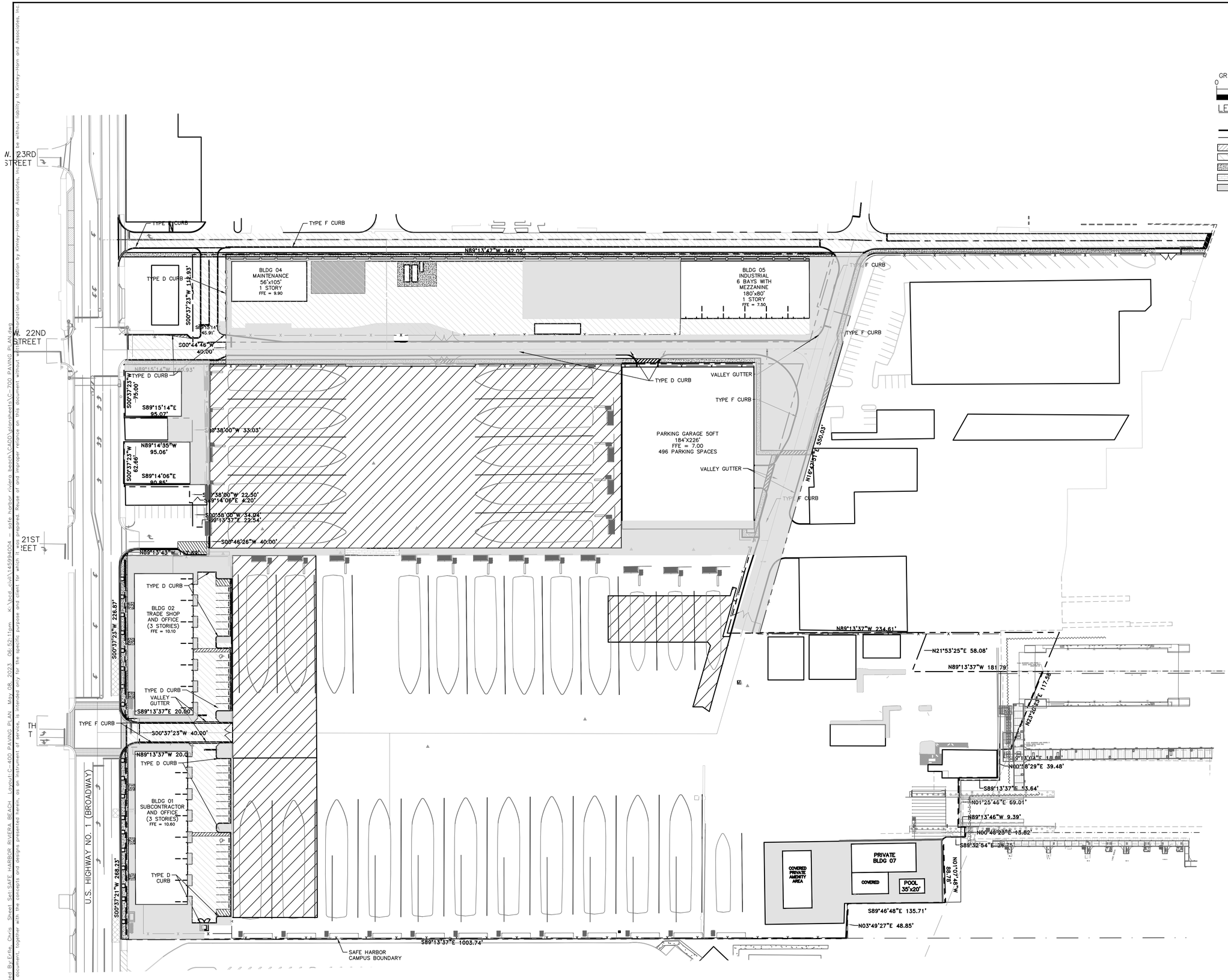
This item has been digitally signed and sealed by Michael D. Spruce, PE (FL PE #52776) on the date noted using a Digital Signature. State of Florida, Professional Engineer, License No. 52776
I am the author of this document.
2023.05.09 07:25:43-04'00'
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

KHA PROJECT 145994004
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

FIRE HYDRANT PLAN

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
C-620



No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

This item has been digitally signed and sealed by Michael D. Spruce, PE (FL PE #52776) on the date noted using a Digital Signature. State of Florida, Professional Engineer, License No. 52776
I am the author of this document.
2023.05.09 07:25:45-04'00'
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

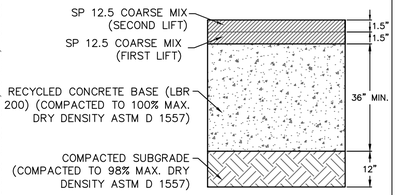
KHA PROJECT	145994004
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	JPL
DRAWN BY	AMS
CHECKED BY	MDS

PAVING PLAN

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
C-700

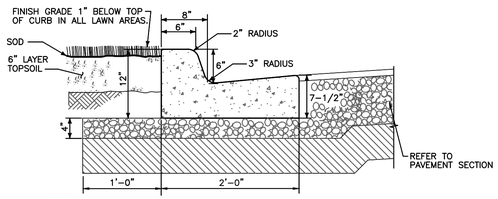
Plotted By:Effie, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-400 PAVING PLAN May 08, 2023 06:52:11pm K:\Ved_civil\145994004 - safe harbor riviera beach\CADD\prjsheets\C-700 PAVING PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adoption by Kimley-Horn and Associates, Inc. be without liability to Kimley-Horn and Associates, Inc



NOTES:
1. RECYCLED CONCRETE BASE SHALL BE COMPACTED IN MAXIMUM 12" LIFTS TO THE MINIMUM 36" REQUIRED THICKNESS
2. CONTRACTOR SHALL COMPACT BASE MATERIAL TO 100% MAXIMUM DRY DENSITY (ASTM D 1557)
3. DENSITIES SHALL BE MEASURED AFTER COMPACTION AND PROVIDED TO ENGINEER BEFORE PROCEEDING TO NEXT LIFT
4. ALL AREAS WITH FAILING TESTS SHALL BE RECOMPACTED UNTIL PASSING TESTS ARE ACHIEVED AND DOCUMENTED
5. CONTRACTOR MAY CONSTRUCT ADDITIONAL THICKNESS OF RECYCLED CONCRETE BASE IN LIEU OF COMPACTING IN-SITU SUBGRADE MATERIAL TO WET SEASON WATER TABLE. COMPACT TO 98% MAXIMUM DRY DENSITY (ASTM D 1557) BELOW MINIMUM 36" STANDARD BASE SECTION

BOATYARD PAVEMENT SECTION

NOT TO SCALE

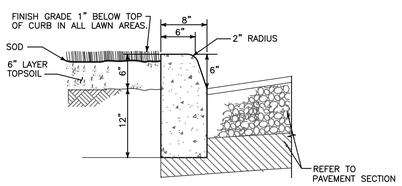


NOTES:
1. GUTTER SLOPE IS TO MATCH THE PAVEMENT SLOPE WHEN USED ON THE HIGH SIDE OF THE PAVEMENT.

TYPE "F" CURB

NOT TO SCALE

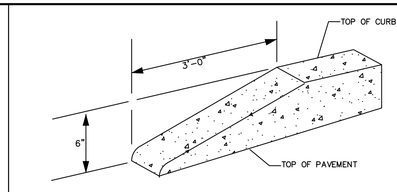
K-H



TYPE "D" CURB

NOT TO SCALE

K-H

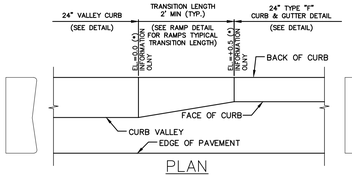


ALL CURBS TO HAVE STANDARD 3' TRANSITION FROM 6" HEIGHT TO FLUSH (0" HEIGHT). A STANDARD TEMPLATE SHALL BE USED AT ALL LOCATIONS TO PROVIDE UNIFORM CURB TRNASITION THROUGHOUT THE PROJECT.

STANDARD CURB END

NOT TO SCALE

K-H



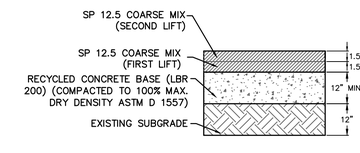
PLAN

(*) ELEVATION ON BACK OF CURBS IS FOR CHANGE IN GRADE INFORMATION FOR TRANSITION FROM 24" TYPE "F" CURB AND GUTTER TO 24" VALLEY CURB.

CURB CUT TRANSITION

NOT TO SCALE

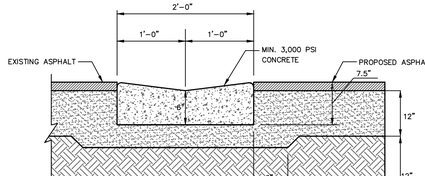
K-H



NOTES:
1. RECYCLED CONCRETE BASE SHALL BE COMPACTED IN MAXIMUM 12" LIFTS TO THE MINIMUM 12" REQUIRED THICKNESS
2. DENSITIES SHALL BE MEASURED AFTER COMPACTION AND PROVIDED TO ENGINEER BEFORE PROCESSING TO NEXT LIFT
3. ALL AREAS WITH FAILING TESTS SHALL BE RECOMPACTED UNTIL PASSING TESTS ARE ACHIEVED AND DOCUMENTED
4. CONTRACTOR MAY CONSTRUCT ADDITIONAL THICKNESS OF RECYCLED CONCRETE BASE IN LIEU OF COMPACTING IN-SITU SUBGRADE MATERIAL TO WET SEASON WATER TABLE. COMPACT TO 98% MAXIMUM DRY DENSITY (ASTM D 1557) BELOW MINIMUM 36" STANDARD BASE SECTION
5. SECTION APPLIES IN ALL AREAS THAT ARE NOT DESIGNATED BOATYARD PAVEMENT

STANDARD PAVEMENT SECTION

NOT TO SCALE



VALLEY GUTTER NOTES:

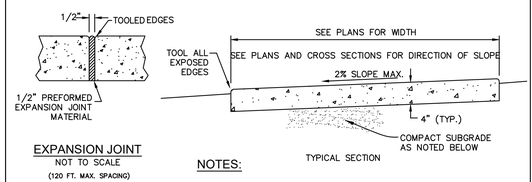
ALL TYPE "F" CURB ELEMENTS SHALL BE PLACED SO THAT THEY ARE ONE-QUARTER (1/4) INCH HIGHER THAN ADJACENT INLET FRAMES AND GRATES. CONCRETE SHALL HAVE A MINIMUM TWENTY-EIGHT (28) DAY STRENGTH OF 3000 P.S.I.

UNLESS OTHERWISE APPROVED, ALL CURB ELEMENTS SHALL HAVE A LIMEROCK FOUNDATION OR "PAD" WITH A MINIMUM LBR OF 100 AND MINIMUM CARBONATE CONTENT OF 70%. PADS SHALL BE AT LEAST FOUR (4) INCHES THICK, EXTENDING SIX (6) INCHES (MIN.) BEYOND THE EDGES OF THE CONCRETE COMPACTED TO 98% OF MAXIMUM DENSITY, PER AASHTO T-180. THE USE OF OTHER MATERIALS SHALL BE CONSIDERED ON A CASE BY CASE BASIS.

VALLEY GUTTER DETAIL

NOT TO SCALE

K-H

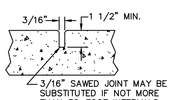


EXPANSION JOINT

NOT TO SCALE

(120 FT. MAX. SPACING)

TYPICAL SECTION



3/16" SAWED JOINT MAY BE SUBSTITUTED IF NOT MORE THAN 30-FOOT INTERVALS WITHIN 12 HOURS. ADDITIONAL JOINTS MAY BE CUT WITHIN 96 HOURS @ 5 FT. INTERVALS.

CONTRACTION JOINT

NOT TO SCALE

(5 FT. MAX. SPACING)

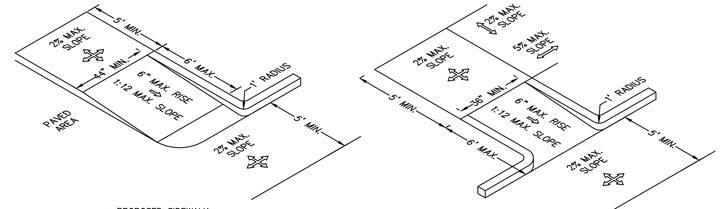
NOTES:

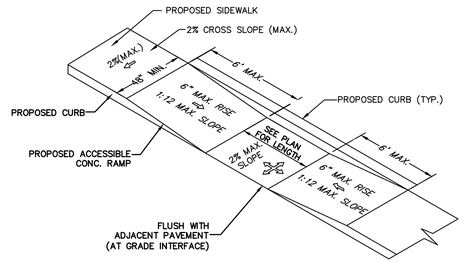
1. PROVIDE EXPANSION JOINTS BETWEEN SIDEWALK AND CURB, SIDEWALK, OR AT ANY OTHER RIGID STRUCTURE.
2. EXPANSION JOINTS SHALL BE PROVIDED AT 120 FT. MAXIMUM SPACING.
3. ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 3,000 P.S.I. (MIN.) @ 28 DAYS FOR SIDEWALKS.
4. MINIMUM THICKNESS OF SIDEWALK SHALL BE AS NOTED ABOVE.
5. FOR SIDEWALKS OR DRIVEWAYS WITHIN R.O.W., COMPACT SUBGRADE TO 98% OF MAXIMUM DENSITY AS DETERMINED BY ASTM1557. COMPACTION OUTSIDE R.O.W. MAY BE 95% OF MAXIMUM DENSITY.

CONCRETE SIDEWALK DETAIL

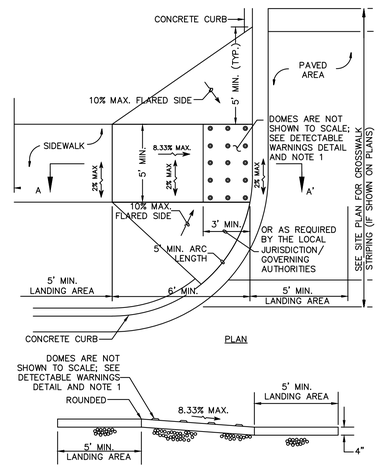
NOT TO SCALE

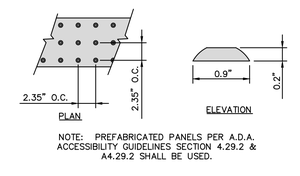
K-H





NOTES:
1. ALL ACCESSIBLE COMPONENTS CONSTRUCTED AS PART OF THESE PLANS SHALL COMPLY WITH CHAPTER 11 OF THE FLORIDA BUILDING CODE.
2. ACCESSIBLE ROUTE TO ACCESSIBLE SPACES, BUILDING ENTRANCES, AND PUBLIC STREETS SHALL NOT EXCEED 5% RUNNING SLOPE AND 2% CROSS SLOPE.
3. CHANGE IN ELEVATION WITHIN THE ACCESSIBLE ROUTE IS NOT TO EXCEED ½" WITHOUT A CURB RAMP PER SECTION11-4.3.8.
4. UNLESS OTHERWISE SHOWN ON THE PLANS, THE MINIMUM CLEAR ROUTE SHALL BE 36" WIDE WITH A 60"x60" PASSING SPACE EVERY 200 FEET.
5. ACCESSIBLE ROUTES THROUGH PLANTERS SHALL BE LEVEL WITH THE SURROUNDING PAVEMENT OR PROVIDE CURB RAMPS AT EACH END WITH A MINIMUM 48" LEVEL LANDING IN BETWEEN.
6. THE ACCESSIBLE ROUTE IN FRONT OF PULL-IN PARKING SHALL BE A MINIMUM OF 44" WIDE AND NOT REDUCED BY VEHICLE OVERHANGS, CURBING, SIGN POSTS, OR OTHER OBSTRUCTIONS.
7. ANY WALK THAT CROSSES OR ADJOINS A VEHICULAR WAY NOT SEPARATED BY CURBS, RAILINGS, OR OTHER ELEMENTS SHALL BE DEFINED BY A CONTINUOUS 36" WIDE DETECTABLE WARNING.
8. SPECIAL RAMP RULES APPLY FOR ANY RISE GREATER THAN 6" INCLUDING BUT NOT LIMITED TO RESTRICTION ON SLOPE, TOTAL RISE BETWEEN LANDINGS, AND USE OF HANDRAILS, PER F.B.C 11-4.8.
9. PUBLIC SIDEWALK CURB RAMPS CONSTRUCTED WITHIN A PUBLIC RIGHT-OF-WAY, IN ABSENCE OF LOCAL ROADWAY GUIDELINES, SHALL MEET THE REQUIREMENTS OF F.D.O.T INDEX 522-001.
10. CURB RAMPS SHALL HAVE A DETECTABLE WARNING EXTENDING THE FULL WIDTH AND DEPTH OF THE RAMP.
11. DETECTABLE WARNINGS SHALL CONSIST OF EXPOSED AGGREGATE CONCRETE, CUSHIONED SURFACES MADE OF RUBBER OR PLASTIC, OR RAISED STRIPS. GROOVED SURFACES ON OUTDOOR CURB RAMPS ARE NOT PERMITTED. VERIFY LOCAL REQUIREMENTS WITH THE BUILDING DEPARTMENT.
12. WHEN ACCESSIBLE PARKING ABUTS CURB OR EDGE OF PAVEMENT, PLEASE REFER TO DETAIL FOR STRIPING COLOR, STALL DIMENSIONS AND SLOPE.





NOTE: PREFABRICATED PANELS PER A.D.A. ACCESSIBILITY GUIDELINES SECTION 4.29.2 & A4.29.2 SHALL BE USED.

GENERAL PAVING NOTES

1. ASPHALT SURFACE COURSE SHALL BE ALLOWED TO CURE FOR MINIMUM 30 DAYS BEFORE LOADING WITH WIGGINS MARINA BULL OR CIMOLAI MBH 450 TO PREVENT DAMAGE AS ASPHALTIC CONCRETE HARDENS.
2. ASPHALT SURFACE DEFORMATIONS ARE ANTICIPATED TO OCCUR IMMEDIATELY AFTER INITIAL LOADING (EXTENT OF DEFORMATIONS UNKNOWN). SUBSEQUENT PASSES WITH LOADED MARINA BULL OR MBH 450 ARE ANTICIPATED TO RESULT IN ADDITIONAL DEFORMATIONS AT A DECREASING RATE UNTIL DEEP SUBGRADE MATERIALS CONSOLIDATE UNDER LOADING. DEPTH OF RUTS SHOULD BE MEASURED AFTER 30 DAYS OF USE.
3. ADDITIONAL SURFACE DAMAGE MAY OCCUR DURING TURNING MOVEMENTS. CARE SHOULD BE TAKEN TO TURN MACHINERY WHILE IN MOTION RATHER THAN STATIC TURNS WHENEVER POSSIBLE.
4. PAVEMENT SURFACE REPAIRS WILL CONSIST OF ISOLATED MILLING IN VICINITY OF RUTS OR SCARS FOLLOWED BY INSTALLATION OF ADDITIONAL ASPHALTIC CONCRETE AS DIRECTED BY ENGINEER.

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.

1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

This item has been digitally signed and sealed by Michael D. Spruce, PE (FL PE #52276) on the date noted using a Digital Signature. State of Florida, Professional Engineer, License No. 52276 I am the author of this document. 2023.05.09 07:25:47-04'00' Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

KHA PROJECT 145994004	
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	JPL
DRAWN BY	AMS
CHECKED BY	MDS

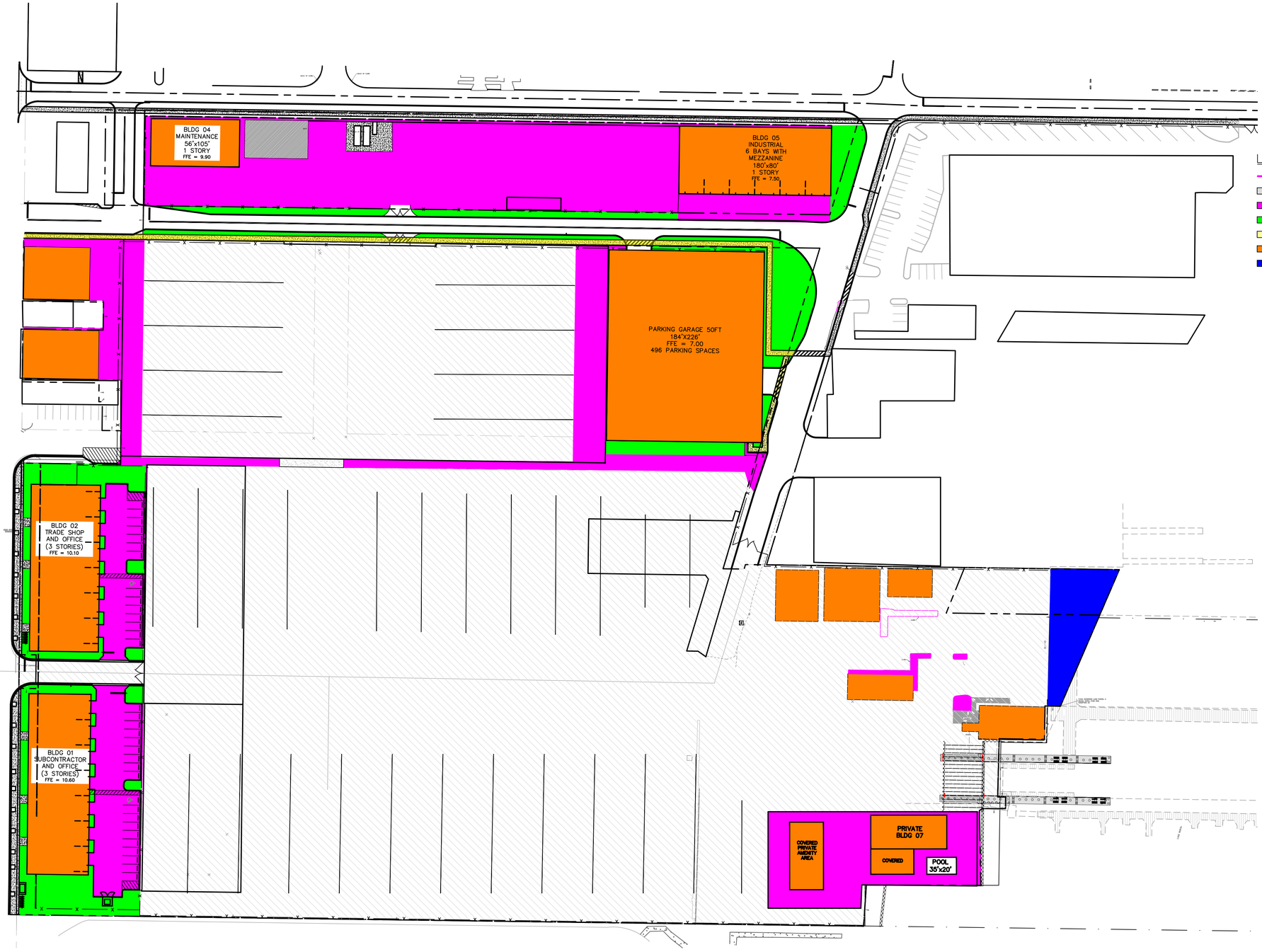
PAVING DETAILS

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
C-702

Plotted By: Eric, Chris Sheet Set: SAFE HARBOR RIVIERA BEACH Layout: C-702 PAVING DETAILS May 08, 2023 06:52:14pm K:\bcd_civil\145994004 - safe harbor riviera beach\CADD\plansheets\C-700 PAVING PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

Use of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



LEGEND

- BASIN BOUNDARY
- IMPERVIOUS AREA – 13.64 AC
- PERVIOUS PAVEMENT AREA – 3.10 AC
- PERVIOUS LANDSCAPE AREA – 0.86 AC
- PERVIOUS SIDEWALK AREA – 0.16 AC
- BUILDING AREA – 2.91 AC
- WATER AREA – 0.18 AC
- TOTAL AREA – 20.85 AC

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201,
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
MICHAEL D. SPRUCE, P.E.
FL LICENSE NUMBER
52776
DATE: _____

KHA PROJECT 145994004		DRAWN BY	JPL
DATE	MAY 2023	DESIGNED BY	AMS
SCALE	AS SHOWN	CHECKED BY	MDS

POST DEVELOPMENT AREA PLAN

SAFE HARBOR
RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
EXH-01

Printed By:Erfe, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:AUTOTURN PLAN – CAR TRAFFIC ROUTING May 08, 2023 06:54:41pm K:\bcd_civil\145940\4 – safe harbor riviera beach\CAD\plansheets\AUTOTURN PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

N89°13'47"W 942.02'

BLDG 04
MAINTENANCE
56'x105'
1 STORY
FFE = 9.90

BLDG 05
INDUSTRIAL
6 BAYS WITH
MEZZANINE
180'x80'
1 STORY
FFE = 7.50

S00°37'23"W 112.83'
S89°15'14"E 45.91'
S00°44'46"W 40.00'

N89°15'14"W 140.93'
S00°37'23"W 75.06'
S89°15'14"E 95.07'
S0°38'00"W 33.03'
N89°14'35"W 95.06'
S00°37'23"W 62.66'
S89°14'06"E 90.85'
S0°38'00"W 22.30'
S89°14'06"E 4.20'
S0°38'00"W 34.04'
S89°13'37"E 22.54'
S00°46'26"W 40.00'
N89°13'37"W 114.04'

PARKING GARAGE 50FT
184'X226'
FFE = 7.00
496 PARKING SPACES

N16°47'51"E 350.03'

BLDG 02
TRADE SHOP
AND OFFICE
(3 STORIES)
FFE = 10.10

S00°37'23"W 226.87'
S89°13'37"E 20.00'
S00°37'23"W 40.00'
N89°13'37"W 20.00'

BLDG 01
SUBCONTRACTOR
AND OFFICE
(3 STORIES)
FFE = 10.60

S00°37'21"W 268.23'

S89°13'37"E 1003.74'

18 SPACES

CA, 12' WATERMAIN EASEMENT

N89°13'37"W 234.61'
N21°53'25"E 58.08'
N89°13'37"W 181.79'
N23°02'23"E 117.38'
S89°13'37"E 18.00'
N00°46'23"E 39.48'
S89°13'37"E 53.64'
N01°25'46"E 69.01'
N89°13'46"W 9.39'
N00°46'23"E 15.82'
S89°32'54"E 28.75'

COVERED PRIVATE AMENITY AREA

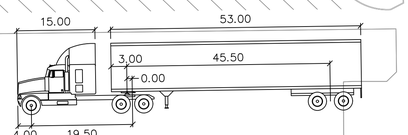
PRIVATE
BLDG 07
COVERED

POOL
35'x20'

N01°01'48"W 88.78'

S89°46'48"E 135.71'
N03°49'27"E 48.85'

FEMA FLOOD MAP: 12099C0393F
FLOOD ZONE X
100 YEAR FLOOD ELEVATION –6.00 NAVD 1988



WB–67

feet			
Tractor Width	: 8.00	Lock to Lock Time	: 6.0
Trailer Width	: 8.50	Steering Angle	: 28.4
Tractor Track	: 8.00	Articulating Angle	: 75.0
Trailer Track	: 8.50		

NORTH

GRAPHIC SCALE IN FEET
0 30 60 120

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

This item has been digitally signed and sealed by Michael D. Spruce, PE (FL PE #52776) on the date noted using a Digital Signature. State of Florida, Professional Engineer, License No. 52776 am the author of this document. 2023.05.09 07:25:51-04'00'
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

KHA PROJECT 145940004
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

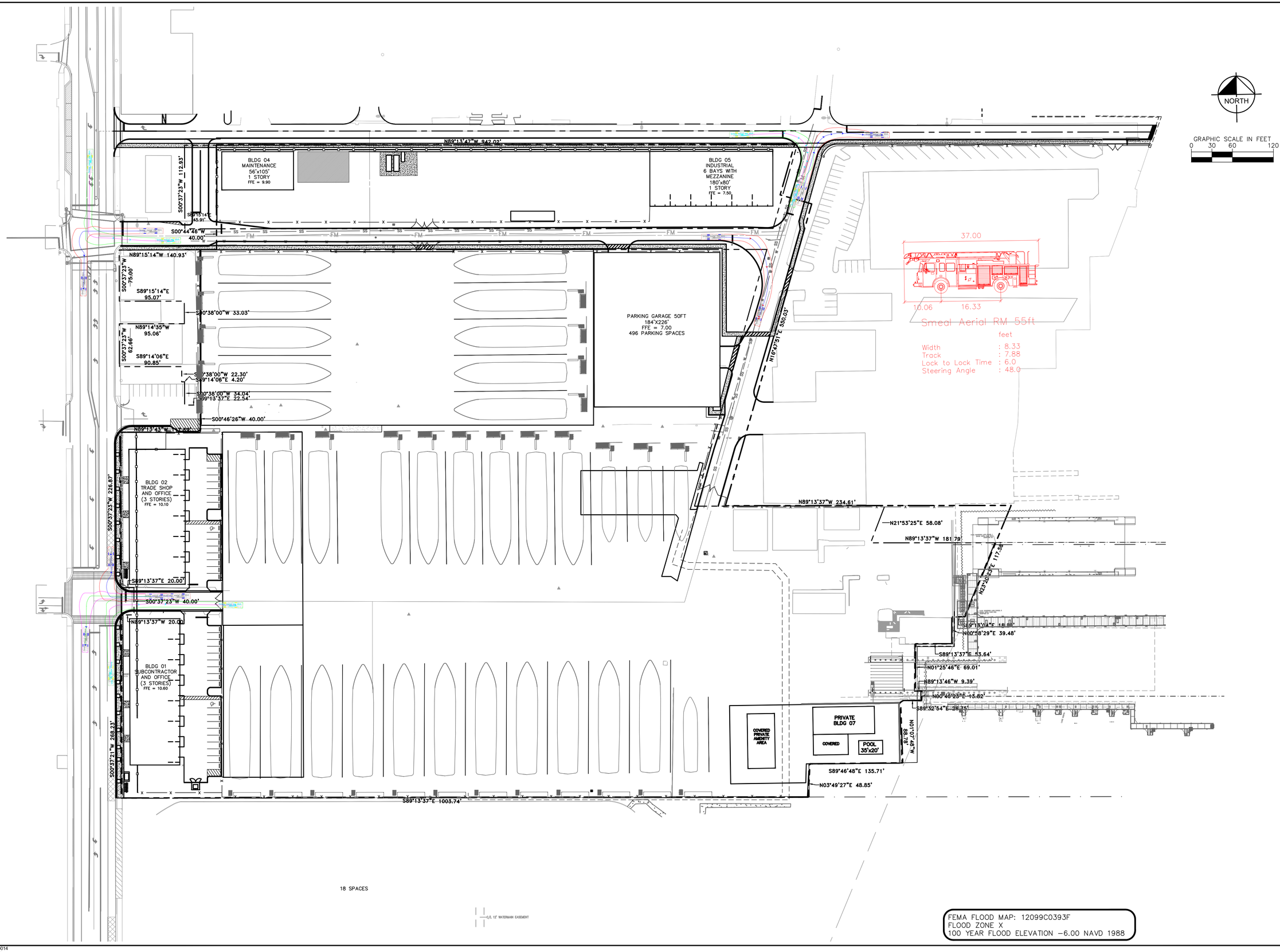
AUTOTURN PLAN - TRUCK TRAFFIC ROUTING - IN

SAFE HARBOR RIVIERA BEACH

PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
EXH-03

Plotted By:Erfle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:AUTOTURN PLAN - TRUCK TRAFFIC ROUTING - IN May 08, 2023 05:54:55pm K:\Ved_civil\145994004 — safe harbor riviera beach\CAD\Plansheets\AUTOTURN PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

This item has been digitally signed and sealed by Michael D. Spruce, PE (FL PE #52276) on the date noted using a Digital Signature. State of Florida, Professional Engineer, License No. 52728 an the author of this document. 2023.05.09 07:26:53-04'00' Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

KHA PROJECT	DESIGNED BY
145994004	
DATE	DRAWN BY
MAY 2023	
SCALE AS SHOWN	CHECKED BY

AUTOTURN PLAN - FIRETRUCK TRAFFIC ROUTING

SAFE HARBOR RIVIERA BEACH

PREPARED FOR

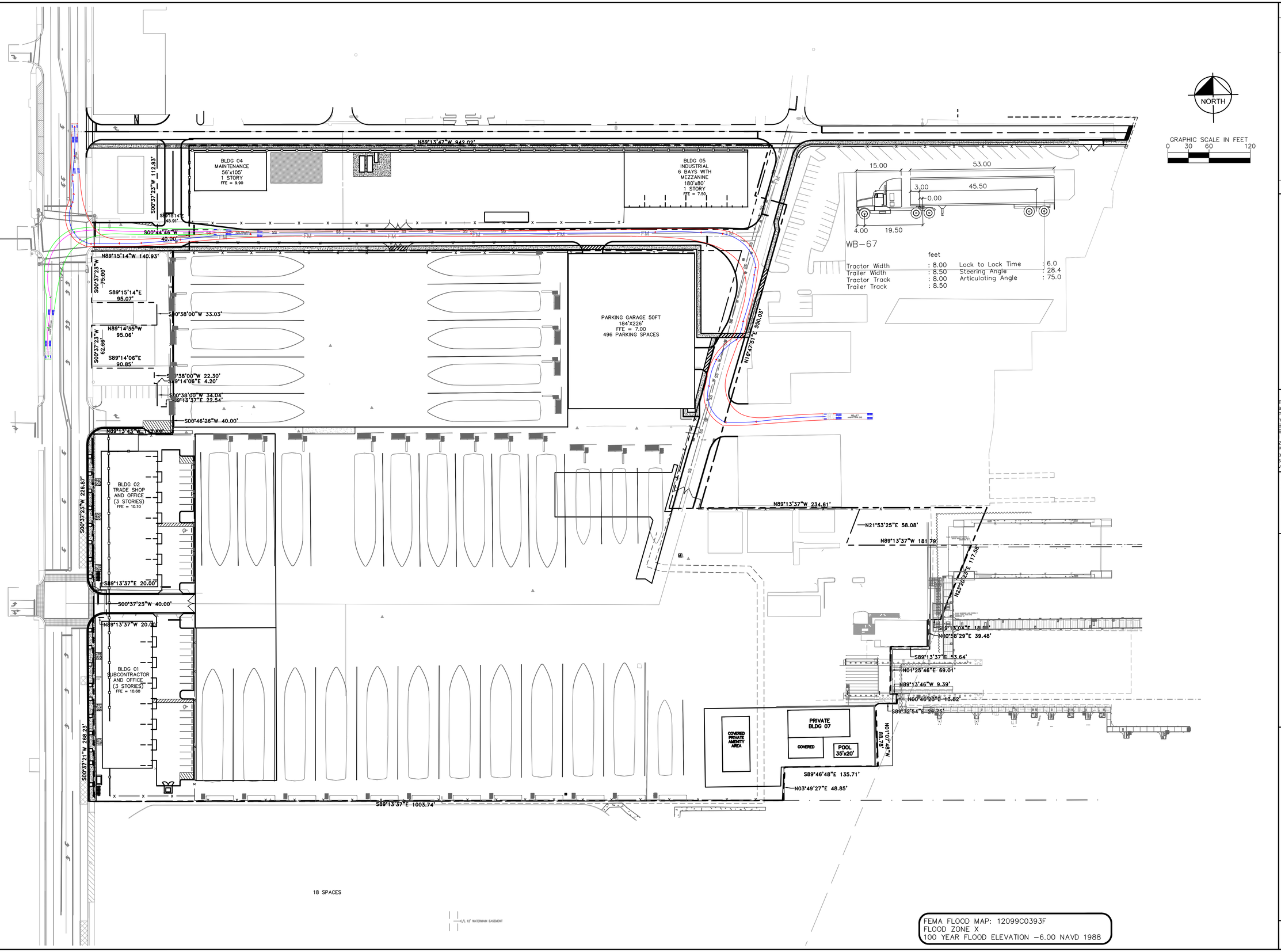
SAFE HARBOR MARINAS FL

RIVIERA BEACH

SHEET NUMBER

EXH-05

Plotted By:Effie, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:AUTOTURN PLAN - TRUCK TRAFFIC ROUTING - OUT May 08, 2023 06:55:08pm K:\bcd_civil\145994004 — safe harbor riviera beach\CAD\plansheets\AUTOTURN PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



FEMA FLOOD MAP: 12099C0393F
FLOOD ZONE X
100 YEAR FLOOD ELEVATION -6.00 NAVD 1988

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

This item has been digitally signed and sealed by Michael D. Spruce, PE (FL PE #52776) on the date noted using a Digital Signature. State of Florida, Professional Engineer, License No. 52776 I am the author of this document. 2023.05.09 07:25:55-04'00' Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

KHA PROJECT	DESIGNED BY	
145994004		
DATE	DRAWN BY	
MAY 2023		
SCALE AS SHOWN	CHECKED BY	

AUTOTURN PLAN - TRUCK TRAFFIC ROUTING - OUT

SAFE HARBOR RIVIERA BEACH

PREPARED FOR

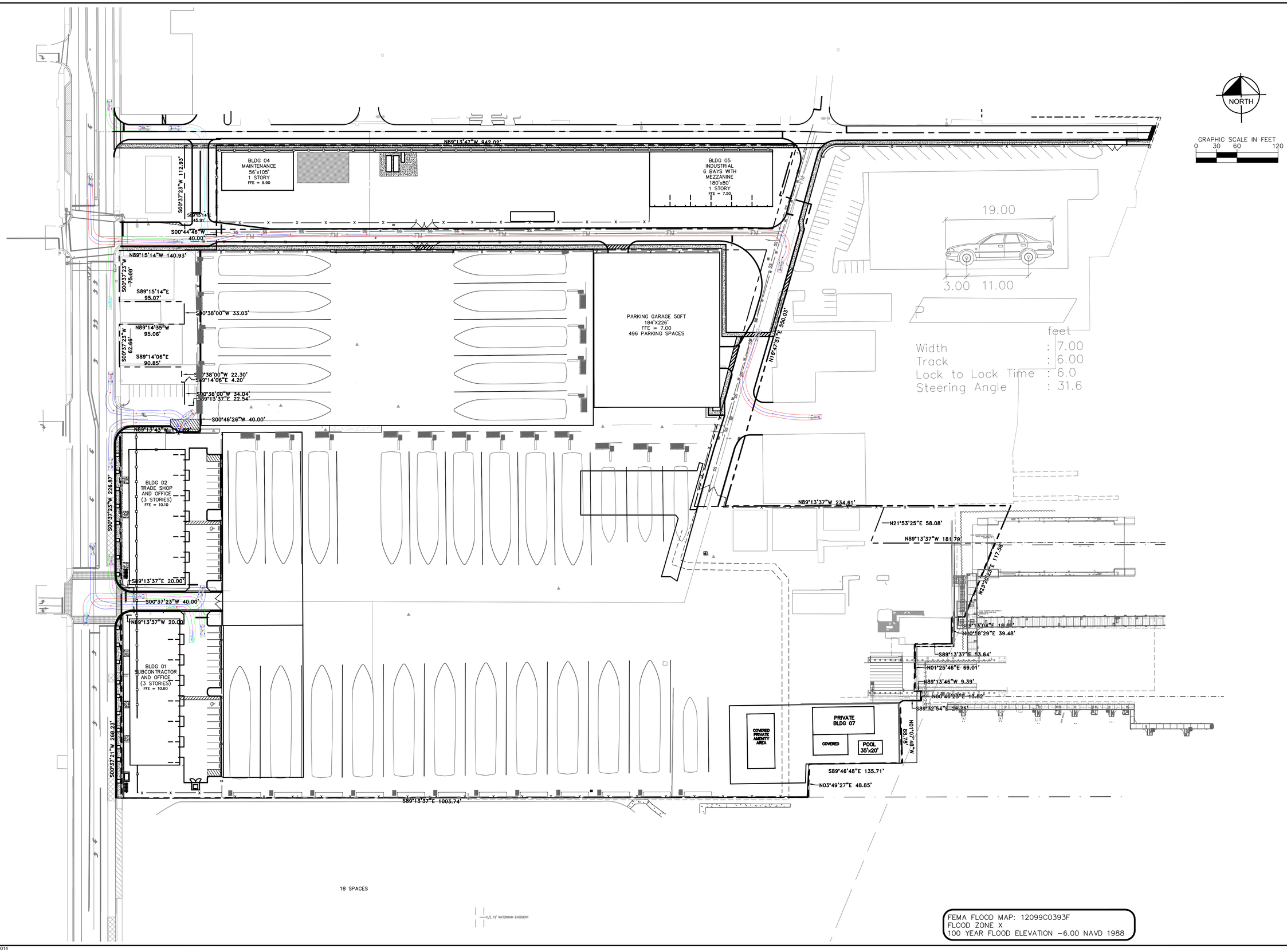
SAFE HARBOR MARINAS

RIVIERA BEACH FL

SHEET NUMBER

EXH-04

Plotted By:Erfle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:AUTOTURN PLAN - FIRETRUCK TRAFFIC ROUTING May 08, 2023 06:55:22pm K:\bcd_civil\145994004 - safe harbor riviera beach\CADD\plansheets\AUTOTURN PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

This item has been digitally signed and sealed by Michael D. Spruce, PE (FL PE #52776) on the date noted using a Digital Signature. State of Florida, Professional Engineer, License No. 52776. I am the author of this document. 2023.05.09 07:25:57-04'00' Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

KHA PROJECT	145994004
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	
DRAWN BY	
CHECKED BY	

AUTOTURN PLAN - CAR TRAFFIC ROUTING

SAFE HARBOR RIVIERA BEACH

PREPARED FOR

SAFE HARBOR MARINAS

RIVIERA BEACH FL

SHEET NUMBER

EXH-02

SITE PLAN

FOR

SAFE HARBOR RIVIERA BEACH

2010 AVENUE B

RIVIERA BEACH, FLORIDA

SECTION 28, TOWNSHIP 42-S, RANGE 43-E

FEBRUARY 2023

PROJECT TEAM:

OWNER
SAFE HARBOR MARINAS
4200 NORTH FLAGER DRIVE
WEST PALM BEACH, FLORIDA 33407
561-840-8167
CONTACT: TIM SARGENT

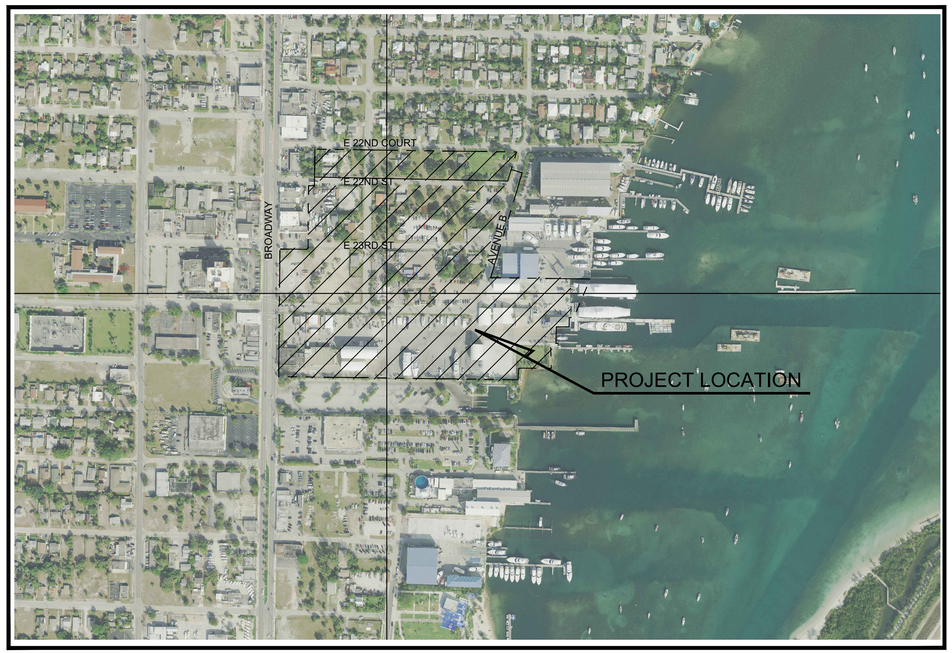
CIVIL ENGINEER
KIMLEY-HORN AND ASSOCIATES, INC.
REGISTRY 35106
1615 S. CONGRESS AVENUE, SUITE 201
DELRAY BEACH, FLORIDA 33445
561-330-2545
CONTACT: MICHAEL D. SPRUCE, P.E.

SURVEYOR
GCY, INC.
1505 SW MARTIN HIGHWAY
PALM CITY, FLORIDA 34991
772-286-8083
CONTACT: PETER ANDERSEN, PSM

PLANNER
KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVENUE, SUITE 201
DELRAY BEACH, FLORIDA 33445
561-484-5257
CONTACT: LIAM SARGENT

LANDSCAPE ARCHITECT
KIMLEY-HORN AND ASSOCIATES, INC.
1920 WEKIVA WAY
WEST PALM BEACH, FLORIDA 33411
561-840-0223
CONTACT: KRISTEN ALEXA, P.L.A.

ARCHITECT
SONG + ASSOCIATES, INC.
1545 CENTERPARK DR. N
WEST PALM BEACH, FL 33401
561-655-2423
CONTACT: YOUN LEE, LEED AP



LOCATION MAP

GRAPHIC SCALE IN FEET
0 150 300 600

NORTH

Sheet List Table	
Sheet Number	Sheet Title
C-000	COVER SHEET
C-001	GENERAL NOTES
C-002	GENERAL NOTES
P-100	SITE PLAN
P-101	OFFSITE IMPROVEMENT PLAN
P-110	REGULATING PLAN
P-111	REGULATING PLAN DETAILS
P-112	REGULATING PLAN DETAILS
P-113	REGULATING PLAN DETAILS
C-100	PHASE 1 MAP
C-101	PHASE 2 MAP
C-102	PHASE 3 MAP
C-103	PHASE 4 MAP
C-110	KEY MAP
C-200	DEMOLITION PLAN
C-201	DEMOLITION PLAN
C-202	DEMOLITION PLAN
C-203	DEMOLITION PLAN
C-500	GRADING AND DRAINAGE PLAN
C-501	GRADING AND DRAINAGE PLAN
C-502	GRADING AND DRAINAGE PLAN
C-503	GRADING AND DRAINAGE PLAN
C-504	GRADING AND DRAINAGE PLAN
C-510	GRADING AND DRAINAGE DETAILS
C-600	UTILITY PLAN
C-601	UTILITY PLAN
C-602	UTILITY PLAN
C-603	UTILITY PLAN
C-610	UTILITY DETAILS
C-611	UTILITY DETAILS
C-612	UTILITY DETAILS
C-620	FIRE HYDRANT PLAN
C-700	PAVING PLAN
C-702	PAVING DETAILS
EXH-01	POST DEVELOPMENT AREA PLAN
EXH-02	AUTOTURN PLAN – CAR TRAFFIC ROUTING
EXH-03	AUTOTURN PLAN – TRUCK TRAFFIC ROUTING – IN
EXH-04	AUTOTURN PLAN – TRUCK TRAFFIC ROUTING – OUT
EXH-05	AUTOTURN PLAN – FIRETRUCK TRAFFIC ROUTING
L-100	OVERALL TREE DISPOSITION PLAN
L-101	TREE DISPOSITION PLAN
L-102	TREE DISPOSITION PLAN
L-103	TREE DISPOSITION PLAN
L-104	TREE DISPOSITION PLAN
L-105	TREE DISPOSITION PLAN
L-106	TREE DISPOSITION PLAN
L-107	TREE DISPOSITION PLAN
L-200	PHASE 1 LANDSCAPE KEY MAP
L-201	PHASE 1 LANDSCAPE PLAN
L-202	PHASE 1 LANDSCAPE PLAN
L-203	PHASE 1 LANDSCAPE PLAN
L-204	PHASE 1 LANDSCAPE PLAN
L-205	PHASE 2 LANDSCAPE KEY MAP
L-206	PHASE 2 LANDSCAPE PLAN
L-207	PHASE 2 LANDSCAPE PLAN
L-208	PHASE 2 LANDSCAPE PLAN
L-209	PHASE 2 LANDSCAPE PLAN
L-210	LANDSCAPE PLAN
L-211	LANDSCAPE DETAILS
L-212	LANDSCAPE NOTES

Kimley»Horn

© 2022 KIMLEY-HORN AND ASSOCIATES, INC.

1615 S. CONGRESS AVENUE, SUITE 201
DELRAY BEACH, FLORIDA 33445
PHONE: 561-330-2545

FEMA FLOOD MAP: 12099C0393F
FLOOD ZONE X
100 YEAR FLOOD ELEVATION 6.00 NAVD 1988

PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.52' = (NGVD 1929)

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

Always call 811 two full business days before you dig to have underground utilities located and marked.

Sunshine811.com

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.

1615 S. CONGRESS AVE. SUITE 201.
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
MICHAEL D. SPRUCE, P.E.
FL LICENSE NUMBER
52776
DATE: ——————

KHA PROJECT	145994004
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	JPL
DRAWN BY	AMS
CHECKED BY	MDS

COVER SHEET

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
C-000

Plotted By:Erik, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-000 COVER SHEET May 08, 2023 06:34:02pm K:\West_civil\145994004 — safe harbor riviera beach\CADD\xlsheets\C-000 COVER SHEET.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

Plotted By:Erfle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-001 GENERAL NOTES May 08, 2023 06:34:14pm K:\bcd_civil\145994004 – safe harbor riviera beach\CADD\plansheets\C-000 COVER SHEET.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR AND SUBCONTRACTORS SHALL OBTAIN A COPY OF THE FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (LATEST EDITION), AND BECOME FAMILIAR WITH THE CONTENTS PRIOR TO COMMENCING WORK.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS. CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS UNLESS OTHERWISE INDICATED, REMOVING TREES, STUMPS, ROOTS, MUCK, EXISTING PAVEMENT AND ALL OTHER DELETERIOUS MATERIAL.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 2 WORKING DAYS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR MUST CALL THE UTILITY COMPANIES BEFORE COMMENCING WORK.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS AND BONDS IF REQUIRED PRIOR TO CONSTRUCTION.
5. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, AND SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.
6. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND THE ENGINEER.
7. ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS ARE TO BE SENT TO THE OWNER AND ENGINEER DIRECTLY FROM THE TESTING AGENCY.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TO THE ENGINEER A CERTIFIED RECORD SURVEY SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA DEPICTING THE ACTUAL FIELD LOCATION OF ALL CONSTRUCTED IMPROVEMENTS THAT ARE REQUIRED BY THE JURISDICTIONAL AGENCIES FOR THE CERTIFICATION PROCESS. ALL SURVEY COSTS WILL BE THE CONTRACTOR'S RESPONSIBILITY.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING AS-BUILT INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION PROGRESSES OR AT THE COMPLETION OF APPROPRIATE CONSTRUCTION INTERVALS AND SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS TO THE OWNER FOR THE PURPOSE OF CERTIFICATION TO JURISDICTIONAL AGENCIES AS REQUIRED. ALL AS-BUILT DATA SHALL BE COLLECTED BY A STATE OF FLORIDA PROFESSIONAL LAND SURVEYOR WHOSE SERVICES ARE ENGAGED BY THE CONTRACTOR.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK THAT WOULD BE AFFECTED. FAILURE TO NOTIFY OWNER OF AN IDENTIFIABLE CONFLICT PRIOR TO PROCEEDING WITH INSTALLATION RELIEVES OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.
11. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR VERIFYING ALL QUANTITIES, TAKE-OFF MEASUREMENTS, MATERIALS, ETC. DURING THE BID PROCESS WHEN DISCREPANCIES OCCUR, THE PHYSICAL PLAN TAKES PRECEDENCE. THE ENGINEER, LANDSCAPE ARCHITECT, COUNTY, CITY OR PROJECT MANAGERS ARE NOT TO BE HELD RESPONSIBLE FOR DISCREPANCIES TO THE SPECIFICATIONS OR PLANS.
12. THE CONTRACTOR SHALL LIMIT CONSTRUCTION OPERATIONS TO WITHIN THE LIMITS OF CONSTRUCTION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY DAMAGES OUTSIDE THE LIMITS OF CONSTRUCTION.
13. CONTRACTOR IS ADVISED THAT THE U.S. ENVIRONMENTAL PROTECTION AGENCY REQUIRES THAT ALL OPERATORS FILE A NOTICE OF INTENT (NOI) FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NPDES GENERAL PERMIT PRIOR TO BEGINNING WORK. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO OBTAIN THE SAME. A COPY SHALL BE SENT TO THE ENGINEER OF RECORD, ARCHITECT OF RECORD AND THE OWNER.
14. FLORIDA LAW (F.S. 553.851) PROTECTION OF UNDERGROUND PIPELINES MANDATES THAT "NO EXCAVATOR SHALL COMMENCE OR PERFORM ANY EXCAVATION WITHOUT FIRST OBTAINING INFORMATION CONCERNING THE POSSIBLE LOCATION OF GAS PIPELINES IN THE AREA OF PROPOSED EXCAVATION." THE EXCAVATOR MUST NOTIFY THE GAS UTILITY A MINIMUM OF 2 WORKING DAYS AND A MAXIMUM OF 5 WORKING DAYS PRIOR TO EXCAVATION.
15. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE LOCAL ELECTRICAL PROVIDER ON ANY WORK IN THE VICINITY OF OVERHEAD OR UNDERGROUND POWER LINES.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL PLANS RELATED TO SITE WORK INCLUDING (BUT NOT LIMITED TO) LANDSCAPE, IRRIGATION, SITE LIGHTING, BUILDING FOUNDATION, PLUMBING, FIRE SPRINKLER, AND OTHER APPLICABLE PLANS FOR CONFLICTING INFORMATION AND ALERT OWNER'S REPRESENTATIVE OF ANY CONFLICT FOR RESOLUTION.
17. CONTRACTOR SHALL VERIFY LOCATION OF ALL IRRIGATION, STREET LIGHTING, AND ELECTRICAL CONDUIT THAT WILL BE IN CONFLICT WITH ANY PROPOSED CONSTRUCTION AND SHALL RESOLVE CONFLICT ACCORDINGLY. COST OF CONFLICT RESOLUTION SHALL BE INCLUDED IN THE BID.
18. ANY DEBRIS RESULTING FROM STRIPPING AND DEMOLITION OPERATIONS SHALL BE REMOVED FROM THE SITE AT FREQUENT INTERVALS TO PREVENT THIS MATERIAL FROM ACCUMULATING ON SITE.
19. UPON REMOVAL OF TREES, SHRUBS OR ANY STUMP GRINDING, NO ROOT GREATER THAN THREE INCHES IN DIAMETER SHALL REMAIN WITHIN FIVE FEET OF AN UNDERGROUND STRUCTURE OR UTILITY LINE OR UNDER SLABS OR FOOTINGS OR PAVED AREAS.
20. THE CONTRACTOR SHALL RESTORE ALL DISTURBED VEGETATION IN KIND, UNLESS SHOWN OTHERWISE.
21. THE CONTRACTOR SHALL ENSURE THAT ANY TREE OR SHRUB PLACED WITHIN WATER, SEWER OR DRAINAGE EASEMENTS SHALL CONFORM TO THE CITY OF RIVIERA STANDARD DETAILS

PRECONSTRUCTION RESPONSIBILITIES

1. UPON RECEIPT OF NOTICE OF AWARD, THE CONTRACTOR SHALL ARRANGE A PRECONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, ALL AFFECTED UTILITY OWNERS, THE OWNER, THE ENGINEER AND ITSELF.
2. THE CONTRACTOR SHALL CONTACT "SUNSHINE STATE ONE CALL OF FLORIDA, INC. (811)" AT LEAST 2 WORKING DAYS PRIOR TO BEGINNING ANY EXCAVATION.
3. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, ELEVATION, AND MATERIAL OF ALL EXISTING UTILITIES WITHIN THE AREA OF CONSTRUCTION.
4. EXISTING UTILITY LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF EXISTING UTILITIES SHOWN OR FOR ANY EXISTING UTILITIES NOT SHOWN.
5. IF UPON EXCAVATION, AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION OR TO BE OF A SIZE OR MATERIAL DIFFERENT FROM THAT SHOWN ON THE PLANS; THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.

CONSTRUCTION SAFETY

ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER, SPECIFICALLY, THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL BE STRICTLY OBSERVED.

UTILITIES

EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE TOPOGRAPHIC SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE HE COMMENCES ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.

EROSION CONTROL NOTES

1. THE STORM WATER POLLUTION PREVENTION PLAN ("SWPPP") IS COMPRISED OF THIS EROSION AND SEDIMENTATION CONTROL PLAN, THE STANDARD DETAILS, AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS PROVIDED BY THE CONTRACTOR.
2. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE OF FLORIDA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.
3. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
4. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY THE PERMITTING AGENCY OR OWNER.
5. EROSION AND SEDIMENTATION CONTROL PLAN MUST CLEARLY DELINEATE ALL STATE WATERS. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.
6. THE CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.
7. CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.
8. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
9. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
10. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
11. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THE PLAN, SHALL BE INITIATED AS SOON AS PRACTICABLE.
12. STABILIZATION PRACTICES SHOULD BE INITIATED AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS WHERE CONSTRUCTION HAS TEMPORARILY OR PERMANENTLY CEASED.
13. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY STABILIZED. THESE AREAS SHALL BE STABILIZED NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRED.
14. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.
15. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED AS SOON AS POSSIBLE.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
17. ON-SITE & OFF-SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE EROSION AND SEDIMENTATION CONTROL PLAN AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
18. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
19. DUE TO GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES AS NECESSARY AS CONSTRUCTION PROGRESSES (SILT FENCES, ETC.) TO PREVENT EROSION.
20. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY, THIS INCLUDES BACK FILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.
21. EROSION AND SEDIMENTATION CONTROL PLANS PROVIDED HEREIN ARE A GUIDELINE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PREPARING THE FINAL STORM WATER POLLUTION PREVENTION PLAN. THE PLAN SHALL BE SUBMITTED TO THE OWNER AND ENGINEER WHICH DEMONSTRATES THE MECHANISMS AND PRACTICES THAT WILL BE EMPLOYED TO PROTECT THE CONSTRUCTION SITE AND SURROUNDING AREA DURING CONSTRUCTION. THE PLAN SHALL BE CONSISTENT WITH FEDERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES PERMIT REQUIREMENTS PERTAINING TO POLLUTION PREVENTION PLANS. THE PLAN SHALL INCLUDE, BUT NOT BE LIMITED TO, THE LOCATIONS OF SILT BARRIERS, TURBIDITY SCREENS OR TEMPORARY SHEETING, EMERGENCY RESPONSE PRACTICES, AND OTHER METHODS TO PREVENT POLLUTION. REFUELING OR STORAGE OF VEHICLES OR EQUIPMENT THAT UTILIZE PETROLEUM BASED PRODUCTS SHALL BE PROHIBITED ANYWHERE WITHIN 50 FEET OF A WATER'S EDGE. THE PLAN SHALL BE SUBMITTED TO THE OWNER AFTER NOTICE OF AWARD AND PRIOR TO NOTICE TO PROCEED. AFTER REVIEW BY OWNER THE PLAN SHALL BE FILED WITH ALL APPLICABLE REGULATORY AGENCIES BY THE CONTRACTOR. REFER TO FURTHER NOTES AND DETAILS WITHIN THESE DOCUMENTS.
22. SILT FENCE IS REQUIRED AS SHOWN ON THE PLANS AND ANYWHERE ADDITIONAL AS REQUIRED BY CONSTRUCTION. SILT FENCE IS NOT APPLICABLE IN PAVEMENT AREAS. LIMITS OF CONSTRUCTION SHOWN ARE DIAGRAMATIC. CONTRACTOR TO PROVIDE PLAN FOR SHOP DRAWING REVIEW.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.

DEMOLITION NOTES

1. ALL MATERIAL REMOVED FROM THIS SITE BY THE CONTRACTOR SHALL BE DISPOSED OF BY THE CONTRACTOR IN A LEGAL MANNER.
2. REFER TO THE TOPOGRAPHIC SURVEY FOR ADDITIONAL DETAILS OF EXISTING STRUCTURES, ETC., LOCATED WITHIN THE PROJECT SITE. UNLESS OTHERWISE NOTED, ALL EXISTING BUILDINGS, STRUCTURES, SLABS, CONCRETE, ASPHALT, DEBRIS PILES, SIGNS, AND ALL APPURTENANCES ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR AND PROPERLY DISPOSED OF IN A LEGAL MANNER AS PART OF THIS CONTRACT. SOME ITEMS TO BE REMOVED MAY NOT BE DEPICTED ON THE TOPOGRAPHIC SURVEY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE FULL EXTENT OF ITEMS TO BE REMOVED. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE OWNER PRIOR TO REMOVAL OF SAID ITEMS.
3. THE CONTRACTOR SHALL REFER TO THE DEMOLITION PLAN AND LANDSCAPE PLAN FOR DEMOLITION/PRESERVATION OF EXISTING TREES. ALL TREES NOT SPECIFICALLY SHOWN TO BE REMOVED OR RELOCATED SHALL BE PRESERVED AS A PART OF THIS CONTRACT. TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO ANY DEMOLITION. CONTRACTOR TO SEE LANDSCAPE PLAN FOR TREE PROTECTION REQUIREMENTS. ALL TREES TO REMAIN UNLESS OTHERWISE NOTED. CONTRACTOR TO NOTE EXISTING TREES TO REMAIN. SHOULD ANY TREE TO BE REMAIN BE DAMAGED BY THE CONTRACTOR, IT WILL REQUIRE REPLACEMENT IN KIND.

TRENCH SAFETY ACT

1. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLIANCE WITH THE STATE OF FLORIDA TRENCH SAFETY ACT.
2. WHERE EXCAVATIONS TO A DEPTH IN EXCESS OF FIVE FEET (5') ARE REQUIRED. THE CONTRACTOR SHALL INCLUDE THE FOLLOWING INFORMATION IN THE BID:
   A. A REFERENCE TO THE TRENCH SAFETY STANDARDS THAT WILL BE IN EFFECT DURING THE PERIOD OF CONSTRUCTION OF THE PROJECT.
   B. WRITTEN ASSURANCES BY THE CONTRACTOR PERFORMING THE TRENCH EXACTION THAT SUCH CONTRACTOR WILL COMPLY WITH THE APPLICABLE TRENCH SAFETY STANDARDS.
   C. A SEPARATE ITEM IDENTIFYING THE COST OF COMPLIANCE WITH THE APPLICABLE TRENCH SAFETY STANDARDS.
3. WHEN A BID IS NOT SUBMITTED, THE CONTRACTOR SHALL SUBMIT THE INFORMATION LISTED IN ITEM "2" TO THE ENGINEER PRIOR TO STARTING WORK.

SURVEY DATA

1. THE CONTRACTOR SHALL PROTECT ALL PERMANENT REFERENCE MONUMENTS AND TAKE ALL PRECAUTIONS NECESSARY TO AVOID DAMAGE TO SURVEY MAKERS DURING CONSTRUCTION. ANY SURVEY MARKERS DAMAGED DURING CONSTRUCTION WILL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
2. BENCHMARK LOCATION AND ELEVATION ARE AS REPRESENTED BY SURVEYOR AT THE TIME OF SURVEY. CONTRACTOR SHALL VERIFY ITS CORRECTNESS AT TIME OF CONSTRUCTION.
3. ALL ELEVATIONS ON THE PLANS OR REFERENCED IN THE SPECIFICATIONS ARE BASED ON NORTH AMERICAN DATUM OF 1988 (N.A.V.D. 88').

MAINTENANCE

1. ALL MEASURES STATED ON THE EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A 0.5" RAINFALL EVENT, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:
2. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION. INLET PROTECTION DEVICES SHALL BE CLEANED OUT AT REGULAR INTERVALS OR AS THEY BECOME FULL OF DEBRIS.
3. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED AND RESEEDED AS NEEDED.
4. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.
5. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.
6. ALL MAINTENANCE OPERATIONS SHALL BE DONE IN A TIMELY MANNER BUT IN NO CASE LATER THAN 2 CALENDAR DAYS FOLLOWING THE INSPECTION.

INTERRUPTION OF EXISTING UTILITIES

ANY CONSTRUCTION WORK THAT REQUIRES INTERRUPTION OF SERVICE TO ANY CUSTOMER SHALL BE DONE SO WITH A MINIMUM OF SEVENTY-TWO (72) HOUR NOTICE TO, AND WRITTEN APPROVAL BY THE APPROPRIATE UTILITY COMPANY. THE CONTRACTOR SHALL ARRANGE A MEETING WITH THE LOCAL JURISDICTIONAL AGENCIES AND OTHER GOVERNING AGENCIES, AND OTHER AFFECTED UTILITIES PRIOR TO SCHEDULING THE SHUTDOWN TO ASSESS THE SCOPE OF WORK. ALL SYSTEM SHUT DOWNS SHALL BE SCHEDULED BY THE CONTRACTOR AT SUCH TIME THAT SYSTEM DEMAND IS LOW. THIS GENERALLY REQUIRES NIGHT TIME WORK BY THE CONTRACTOR AND REQUIRES FULL TIME INSPECTION BY A REPRESENTATIVE OF THE UTILITY. ALL COST FOR OVERTIME WORK BY THE REPRESENTATIVE OF THE UTILITY SHALL BE BORNE BY THE CONTRACTOR. EACH CUSTOMER AFFECTED BY THE SHUT DOWN SHALL BE PROVIDED, MINIMUM, FORTY-EIGHT (48) HOURS WRITTEN NOTIFICATION BY THE CONTRACTOR.

PAVING, GRADING AND DRAINAGE NOTES

1. ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH LOCAL COUNTY OR STATE SPECIFICATIONS AND STANDARDS (LATEST EDITION) OR FDOT SPECIFICATIONS AND STANDARDS (LATEST EDITION) IF NOT COVERED BY LOCAL OR COUNTY REGULATIONS, WHICHEVER IS MOST RESTRICTIVE.
2. ALL UNPAVED AREAS DISTURBED BY CONSTRUCTION SHALL BE REGRADED AND SODDED, UNLESS OTHERWISE NOTED.
3. TRAFFIC CONTROL ON ALL FDOT, LOCAL AND COUNTY RIGHTS-OF-WAY SHALL MEET THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (U.S. DOT/FHA) AND THE REQUIREMENTS OF THE STATE AND ANY LOCAL AGENCY HAVING JURISDICTION. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
4. THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL REGRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND IS WELL ESTABLISHED OR ADEQUATE STABILIZATION OCCURS.
5. ALL OPEN AREAS WITHIN THE PROJECT SITE SHALL BE SODDED WITH BAHIA SOD UNLESS INDICATED OTHERWISE ON THE ENGINEERING OR LANDSCAPE PLANS.
6. ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS AS INDICATED ON THE DRAWINGS.
7. WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL SAW CUT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND REPLACE THE PAVEMENT WITH THE SAME TYPE AND DEPTH OF MATERIAL AS EXISTING OR AS INDICATED.
8. WHERE NEW PAVEMENT MEETS THE EXISTING PAVEMENT, THE CONTRACTOR SHALL SAW CUT THE EXISTING PAVEMENT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND MATCH THE EXISTING PAVEMENT ELEVATION WITH THE PROPOSED PAVEMENT UNLESS OTHERWISE INDICATED.
9. THE CONTRACTOR SHALL INSTALL FILTER FABRIC OVER ALL DRAINAGE STRUCTURES FOR THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL DRAINAGE STRUCTURES AND PIPES WITHIN THE LIMITS OF CONSTRUCTION SHALL BE CLEANED OF DEBRIS AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS.
10. IF DEWATERING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE REQUIRED PERMITS. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER AND THE ENGINEER PRIOR TO ANY EXCAVATION.
11. CONTRACTOR TO STRIP TOPSOIL AND ORGANIC MATTER FROM ALL AREAS OF THE SITE AS REQUIRED. IN SOME CASES TOPSOIL MAY BE STOCKPILED ON SITE FOR PLACEMENT WITHIN LANDSCAPED AREAS BUT ONLY AS DIRECTED BY THE OWNER.
12. FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE LOCAL JURISDICTIONAL AGENCY OR TO FDOT STANDARDS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
13. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED AS PER PLANS. THE AREAS SHALL THEN BE SODDED AS SPECIFIED IN THE PLANS, FERTILIZED, MULCHED, WATERED, AND MAINTAINED UNTIL A GOOD STAND OF GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE JOB SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
14. ALL CUT OR FILL SLOPES SHALL BE 4 (HORIZONTAL) :1 (VERTICAL) OR FLATTER UNLESS OTHERWISE SHOWN.
15. THE CONTRACTOR SHALL ENSURE THAT ISLAND PLANTING AREAS AND OTHER PLANTING AREAS ARE NOT COMPACTED AND DO NOT CONTAIN ROAD BASE MATERIALS. THE CONTRACTOR SHALL ALSO EXCAVATE AND REMOVE ALL UNDESIRABLE MATERIAL FROM ALL AREAS ON THE SITE TO BE PLANTED AND PROPERLY DISPOSED OF IN A LEGAL MANNER.

WATER AND SEWER UTILITY NOTES

1. ALL CONSTRUCTION SHALL MEET OR EXCEED THE LOCAL WATER AND SEWER REQUIREMENTS AND THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS UNLESS OTHERWISE NOTED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE SPECIFICATIONS AND DETAILS FROM THE LOCAL AGENCY.
2. THE CONTRACTOR SHALL CONSTRUCT GRAVITY SEWER LATERALS, MANHOLES AND GRAVITY SEWER LINES AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS, EQUIPMENT, MACHINERY, TOOLS, MEANS OF TRANSPORTATION AND LABOR NECESSARY TO COMPLETE THE WORK IN FULL AND COMPLETE ACCORDANCE WITH THE SHOWN, DESCRIBED AND REASONABLY INTENDED REQUIREMENTS OF THE CONTRACT DOCUMENTS AND JURISDICTIONAL AGENCY REQUIREMENTS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
3. EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE TOPOGRAPHIC SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE HE COMMENCES ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
4. DEFLECTION OF PIPE JOINTS AND CURVATURE OF PIPE SHALL NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS. SECURELY CLOSE ALL OPEN ENDS OF PIPE AND FITTINGS WITH A WATERTIGHT PLUG WHEN WORK IS NOT IN PROGRESS. THE INTERIOR OF ALL PIPES SHALL BE CLEAN AND JOINT SURFACES WIPED CLEAN AND DRY AFTER THE PIPE HAS BEEN LOWERED INTO THE TRENCH. VALVES SHALL BE PLUMB AND LOCATED ACCORDING TO THE PLANS.
5. ALL PHASES OF INSTALLATION, INCLUDING UNLOADING, TRENCHING, LAYING AND BACK FILLING, SHALL BE DONE IN A FIRST CLASS WORKMANLIKE MANNER. ALL PIPE AND FITTINGS SHALL BE CAREFULLY STORED FOLLOWING MANUFACTURER'S RECOMMENDATIONS. CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE COATING OR LINING OF ANY D.I. PIPE FITTINGS. ANY PIPE OR FITTING WHICH IS DAMAGED OR WHICH HAS FLAWS OR IMPERFECTIONS WHICH, IN THE OPINION OF THE ENGINEER OR OWNER, RENDERS IT UNFIT FOR USE, SHALL NOT BE USED. ANY PIPE NOT SATISFACTORY FOR USE SHALL BE CLEARLY MARKED AND IMMEDIATELY REMOVED FROM THE JOB SITE, AND SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
6. WATER FOR FIRE FIGHTING SHALL BE AVAILABLE FOR USE PRIOR TO COMBUSTIBLES BEING BROUGHT ON SITE.
7. ALL UTILITY AND STORM DRAIN TRENCHES LOCATED UNDER AREAS TO RECEIVE PAVING SHALL BE COMPLETELY BACK FILLED IN ACCORDANCE WITH THE GOVERNING JURISDICTIONAL AGENCY'S SPECIFICATIONS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
8. UNDERGROUND LINES SHALL BE AS-BUILT BY A STATE OF FLORIDA PROFESSIONAL LAND SURVEYOR BEFORE BACK FILLING.
9. CONTRACTOR SHALL PERFORM, AT HIS OWN EXPENSE, ANY AND ALL TESTS REQUIRED BY THE SPECIFICATIONS AND/OR ANY AGENCY HAVING JURISDICTION. THESE TESTS MAY INCLUDE, BUT MAY NOT BE LIMITED TO, INFILTRATION AND EXFILTRATION, TELEVISION INSPECTION AND A MANDREL TEST ON GRAVITY SEWER. A COPY OF THE TEST RESULTS SHALL BE PROVIDED TO THE UTILITY PROVIDER, OWNER AND JURISDICTIONAL AGENCY AS REQUIRED.
10. ALL PIPES AND CONNECTIONS ARE TO BE RESTRAINED IN ACCORDANCE WITH THE DETAILS OR JURISDICTIONAL AGENCY REQUIREMENTS, WHICHEVER IS MOST STRINGENT.
11. ALL WATER DISTRIBUTION SYSTEM MATERIALS (INCLUDING SERVICES) AND INSTALLATION SHALL CONFORM TO THE SPECIFICATIONS OF THE LOCAL WATER PROVIDER AS PROVIDED IN THEIR STANDARD SPECIFICATIONS MANUAL AND THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN SPECIFICATION MANUALS PRIOR TO BIDDING THE PROJECT.
12. ALL POTABLE WATER PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT WILL BE COLOR CODED OR MARKED IN ACCORDANCE WITH F.A.C. 62-555.320(21)(B)3, USING BLUE AS THE PREDOMINANT COLOR. (UNDERGROUND PLASTIC PIPE WILL BE SOLID-WALL BLUE PIPE WILL HAVE A CO-EXTRUDED BLUE EXTERNAL SKIN, OR WILL BE WHITE OR BLACK WITH BLUE STRIPES INCORPORATED INTO, OR APPLIED TO, THE PIPE WALL, PIPE STRIPED DURING THE MANUFACTURING OF THE PIPE WILL HAVE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE, THAT ARE LOCATED AT NO GREATER THAN 90-DEGREE INTERVALS AROUND THE PIPE, AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE. IF TAPE OR PAINT IS USED TO STRIPE PIPE DURING AND AFTER INSTALLATION OF THE PIPE, THE TAPE OR PAINT WILL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED ALONG THE TOP OF THE PIPE; FOR PIPE WITH AN INTERNAL DIAMETER OR 24" OR GREATER. TAPE OR PAINT WILL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE. ABOVEGROUND PIPE WILL BE PAINTED BLUE OR WILL BE COLOR CODED OR MARKED LIKE UNDERGROUND PIPE.
13. ALL WATER MAINS ARE DESIGNED FOR A MINIMUM WORKING PRESSURE OF 150 PSI, HAVE COMPRESSION TYPE BELL JOINTS AND BE EITHER ANSI/AWWA C-151/A21.51-02 DUCTILE IRON PIPE (D.I.P.), CLASS 50 FOR 6" DIAMETER PIPE AND LARGER AND CLASS 51 IF PIPE DIAMETER IS SMALLER THAN 6" OR ANSI/AWWA C-900-97, PVC PIPE WITH A MAXIMUM SDR OF 18. ALL D.I.P. WATER MAINS SHALL BE CEMENT LINED AND SEAL COATED IN ACCORDANCE WITH ANSI/AWWA STANDARDS. ALL D.I.P. FORCE MAINS SHALL BE COATED OUTSIDE WITH A BITUMINOUS COATING APPROXIMATELY ONE MIL THICK IN ACCORDANCE WITH ANSI 21.51-8, CEMENT MORTAR LININGS ARE NOT APPROPRIATE FOR THIS APPLICATION. ALL D.I.P. FORCE MAINS AND GRAVITY SEWER MAINS SHALL BE COATED INSIDE WITH POLYBOND VIRGIN POLYETHYLENE COMPLYING WITH A.S.T.M. DESIGNATION D 1248 AND HAVE A MINIMUM "N" VALUE OF 0.012. SEE PROJECT SPECIFICATIONS MANUAL FOR MORE DETAILS. OR PROTECTOR 401 CEREMIC EPOXY. ALL D.I.P. PIPE SHALL BE LAID WITH A MINIMUM OF 30" CLEAR COVER. ALL PVC PIPE SHALL BE LAID WITH A MINIMUM OF 36" CLEAR COVER.
14. NEW OR RELOCATED, UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT WILL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER, STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER; A HORIZONTAL DISTANCE OF AT LEAST SIX FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-TYPE SANITARY SEWER(OR A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-TYPE SANITARY SEWER IF THE BOTTOM OF THE WATER MAIN WILL BE LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER); A HORIZONTAL DISTANCE OF AT LEAST SIX FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER.
15. NEW OR RELOCATED, UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT THAT WILL CROSS ANY EXISTING OR PROPOSED GRAVITY- OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER WILL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES ABOVE THE OTHER PIPELINE OR AT LEAST 12 INCHES BELOW THE OTHER PIPELINE; NEW OR RELOCATED, UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT THAT WILL CROSS ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER,WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER WILL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OTHER PIPELINE.
16. THE WATER SYSTEM SHALL BE CLEANED OF DEBRIS, FLUSHED AND TESTED FOR A PERIOD OF NOT LESS THAN 2 HOURS AT A MINIMUM STARTING PRESSURE OF 150 PSI WITH AN ALLOWABLE LEAKAGE NOT TO EXCEED THE ALLOWABLE GAL/HR IN ACCORDANCE WITH THE ANSI/AWWA C-600-05 STANDARD SECTION 4.2.2.

   (EQUATION $L = \frac{SD\sqrt{P}}{148,000}$)

   L = ALLOWABLE LEAKAGE, GALLONS/HOUR
   S = LENGTH OF PIPE TESTED, FEET
   D = NOMINAL DIAMETER, INCHES
   P = AVERAGE TEST PRESSURE, LB/IN GAUGE
17. AFTER THE PRESSURE TEST, THE SYSTEM SHALL BE DISINFECTED. DISINFECTION SHALL BE IN ACCORDANCE W/ANSI/AWWA C651-05 STD. BACTERIOLOGICAL TESTS SHALL BE TAKEN TWO (2) CONSECUTIVE DAYS, AT LEAST 24 HOURS APART AND SHALL BE AT LEAST ONE SAMPLE PER 1,200 FEET OF MAIN IN THE SYSTEM. THE SAMPLE SHALL HAVE A HETEROTROPHIC PLATE COUNT (HPC) LESS THAN 500 CFU/ML AND SHALL BE FREE OF COLIFORM BACTERIA.
18. AT THE TIME OF BACTERIOLOGICAL SAMPLING, CHLORINE RESIDUAL DETERMINATION SHALL BE MADE TO INSURE THAT CHLORINE CONCENTRATION IN THE MAIN IS NO HIGHER THAN THAT GENERALLY IN THE SYSTEM (4.0 MG/L FREE OR 4.0 MG/L COMBINED MAXIMUM), OR LESS THAN 0.2 MG/L FREE OR 0.6 MG/L COMBINED. THE RESULT SHALL BE REPORTED ALONG WITH THE BACTERIOLOGICAL TEST RESULTS. ALL TESTING SHALL BE COORDINATED AND PAID FOR BY THE CONTRACTOR.

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE, SUITE 201,
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
MICHAEL D. SPRUCE, P.E.
FL LICENSE NUMBER 52776
DATE: ____

KHA PROJECT 145994004
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

GENERAL NOTES

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
C-001

Plotted By:Erika, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-002 GENERAL NOTES May 08, 2023 08:34:16am K:\bcd_civil\145994004 – safe harbor riviera beach\CADD\plansheets\C-000 COVER SHEET.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

MINIMUM REQUIRED AS–BUILT INFORMATION

1. ALL AS–BUILT INFORMATION SUBMITTED TO THE ENGINEER SHALL BE SUFFICIENTLY ACCURATE, CLEAR, AND LEGIBLE TO SATISFY THE ENGINEER THAT THE INFORMATION PROVIDES A TRUE REPRESENTATION OF THE IMPROVEMENTS CONSTRUCTED.
2. STORM DRAINAGE:
   - A. TOP ELEVATION OF EACH MANHOLE FRAME AND COVER / GRATE AS WELL ALL OTHER STRUCTURES (HEADWALLS, CONTROL STRUCTURES, ETC.).
   - B. INVERT ELEVATION OF EACH LINE ENTERING AND LEAVING EACH STRUCTURE, INCLUDING UNDERDRAIN PIPES.
   - C. INVERTS OF ALL MITERED END SECTIONS
   - D. ACTUAL GRADE OF PIPE BETWEEN THE STRUCTURES
   - E. INVERT ELEVATION AND TWO HORIZONTAL TIES FROM PERMANENT VISIBLE OBJECTS TO ALL STORM STUB–OUTS.
   - F. CONTRACTOR SHALL PROVIDE ACCURATE AS–BUILT DIMENSIONS AND ELEVATIONS OF THE STORM WATER MANAGEMENT AREAS IMMEDIATELY AFTER FINAL GRADING AND PRIOR TO SEEDING OR SODDING OF THE SLOPES. AT A MINIMUM, THE CONTRACTOR SHALL PROVIDE CROSS SECTIONS ON ALL SIDES OF THE WATER MANAGEMENT AREAS AT 100–FOOT INTERVALS. THE CROSS SECTIONS SHALL BE PROVIDED FROM TOP OF BANK TO THE SLOPE BREAK BELOW CONTROL ELEVATION THE ENGINEER'S APPROVAL IS REQUIRED PRIOR TO GRASSING OF THE BANK. IF ANY MODIFICATIONS ARE SPECIFIED, ADDITIONAL AS–BUILTS MAY BE REQUIRED.
3. LOCATIONS AND DEPTHS OF UNDERGROUND UTILITIES.
4. REVISIONS TO ROUTING OF PIPING AND CONDUITS.
5. REVISIONS TO ELECTRICAL CIRCUITRY.
6. ACTUAL EQUIPMENT LOCATIONS.
7. CHANGES MADE BY CHANGE ORDER OR CONSTRUCTION CHANGE DIRECTIVE.
8. CHANGES MADE FOLLOWING ENGINEER'S WRITTEN ORDERS.
9. DETAILS NOT ON THE ORIGINAL CONTRACT DRAWINGS.
10. FIELD RECORDS FOR VARIABLE AND CONCEALED CONDITIONS.
11. ALL SLEEVES, FITTINGS, TEES, BENDS, VALVES, ETC. SHALL BE LOCATED BY NORTHING AND EASTING (OR METHOD APPROVED BY ENGINEER) AND ELEVATION OF TOP OF PIPE FOR ALL CONSTRUCTED SLEEVING. AS–BUILTS FOR ALL SLEEVING DEPICTING TOP OF PIPE AT 100–FOOT INTERVALS MUST BE PROVIDED.
12. RECORD DRAWINGS SHALL INDICATE AS–BUILT DATA FOR EVERY ELEVATION SHOWN ON THE PLANS.
13. IF A NEW BENCHMARK LOCATION IS ESTABLISHED, CONTRACTOR SHALL PROVIDE A BENCH LOOP CLOSURE TO THE CLOSEST EXISTING BENCHMARKS IN BOTH DIRECTIONS. ALL BENCHMARK DATA SHALL BE SUBMITTED BY A REGISTERED LAND SURVEYOR.
14. IDENTIFICATION OF ADDENDUM ITEMS ISSUED DURING BIDDING PERIOD.
15. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL AS–BUILT DATA FOR UTILITIES AND SLEEVING IS COLLECTED PRIOR TO PAVEMENT SECTION CONSTRUCTION. PRELIMINARY UTILITY AS–BUILTS MUST BE PROVIDED TO THE ENGINEER FOR REVIEW PRIOR TO PAVEMENT SECTION CONSTRUCTION.
16. PRESSURE SYSTEMS (WATER):
   - A. ACTUAL LENGTHS BETWEEN BRANCHES AND VALVES ALONG THE MAIN RUN.
   - B. TOP OF PIPE AND FINISHED GRADE ELEVATIONS AT 100' INTERVALS.
   - C. LOCATE WITH MEASUREMENTS FROM PERMANENT VISIBLE OBJECTS ALL FITTINGS/ACCESSORIES NOT VISIBLE FROM THE SURFACE (MINIMUM TWO POINT TIES).
   - D. AS–BUILT INFORMATION SUBMITTED TO THE ENGINEER SHALL BE SUFFICIENTLY ACCURATE, CLEAR AND LEGIBLE TO SATISFY THE ENGINEER THAT THE INFORMATION PROVIDES A TRUE REPRESENTATION OF THE IMPROVEMENTS CONSTRUCTED.
   - E. ALL AS–BUILT INFORMATION SUBMITTED TO THE ENGINEER SHALL BE SUFFICIENTLY ACCURATE, CLEAR AND LEGIBLE TO SATISFY THE ENGINEER THAT THE INFORMATION PROVIDES A TRUE REPRESENTATION OF THE IMPROVEMENTS CONSTRUCTED.
   - F. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD COMPLETE SETS OF AS–BUILT CONSTRUCTION DRAWINGS AS REQUIRED FOR SUBMITTAL AND APPROVAL. THESE DRAWINGS SHALL BE MARKED TO SHOW 'AS–BUILT' CONSTRUCTION CHANGES AND DIMENSIONED LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS AND SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR.
   - G. ALL OTHER REQUIRED PRESSURE PIPE INFORMATION IN ACCORDANCE WITH THE AS–BUILT REQUIREMENTS OF PALM BEACH COUNTY.
17. UTILITY CROSSING SEPARATION INFORMATION FOR THAT PROVIDED ON THE PLANS VERIFYING:
   - A. SIZE AND MATERIAL OF CROSSING PIPES
   - B. TOP ELEVATION OF BOTTOM PIPE
   - C. BOTTOM ELEVATION OF TOP PIPE
   - D. FINISH SURFACE ELEVATION OVER UTILITY CROSSING

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY–HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561–330–2345 FAX: 561–863–8175
WWW.KIMLEY–HORN.COM REGISTRY NO. 35106

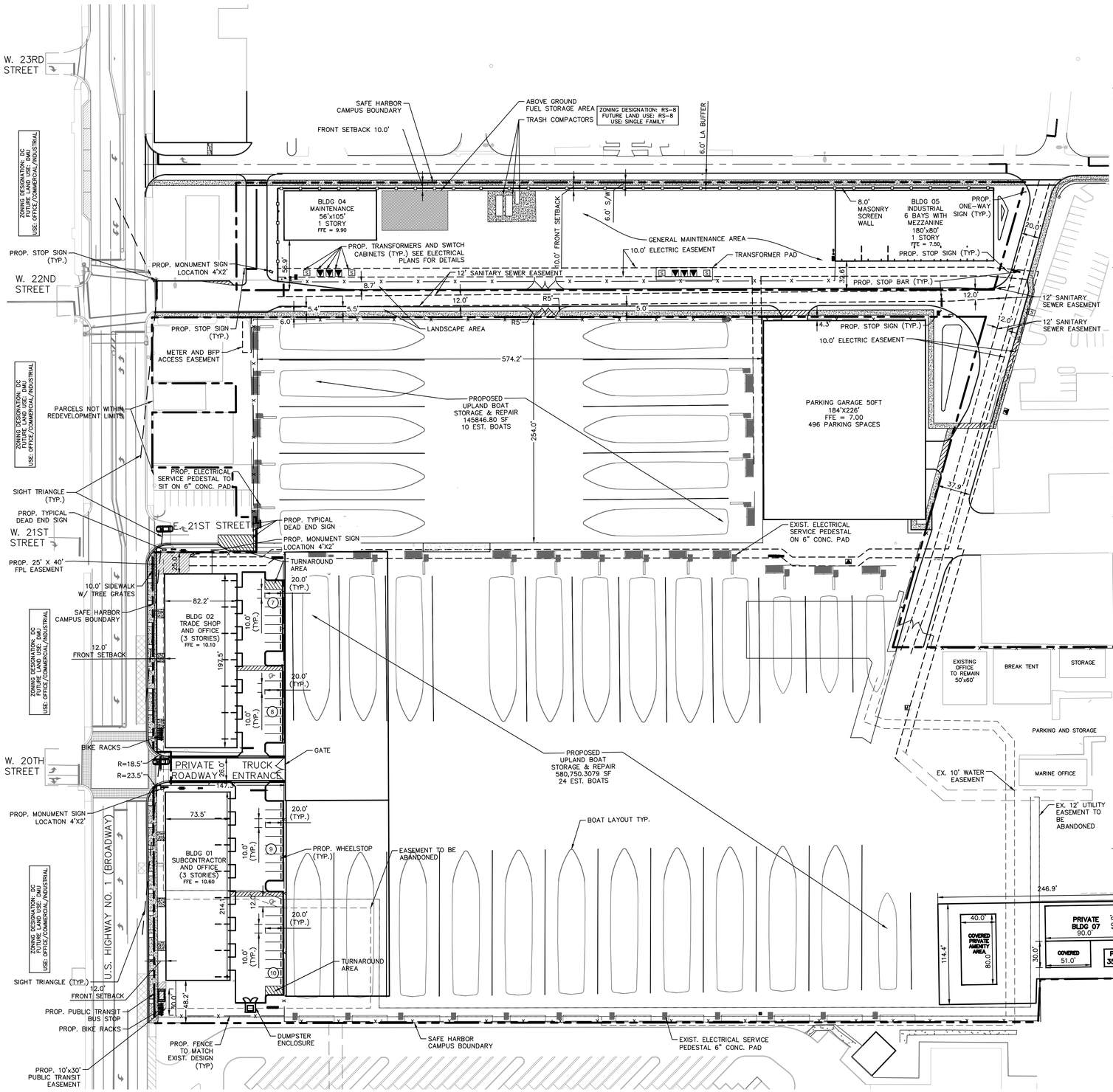
LICENSED PROFESSIONAL
MICHAEL D. SPRUCE, P.E.
FL LICENSE NUMBER
52776
DATE:

KHA PROJECT
145994004
DATE
MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

GENERAL NOTES

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
C-002



SITE DATA

Project Name		Safe Harbor Marina	
Application Numbers		AB-22-0002 / SP-22-0014 / ZA-22-002	
Property Control Numbers		56-43-42-28-33-000-0010	56-43-42-28-11-004-0020
		56-43-42-28-11-002-0041	56-43-42-28-11-004-0030
		56-43-42-28-11-007-0010	56-43-42-28-11-004-0041
		56-43-42-28-11-005-0010	56-43-42-28-11-003-0010
		56-43-42-28-11-005-0030	56-43-42-28-11-003-0020
		56-43-42-28-11-004-0010	56-43-42-28-11-003-0030
		56-43-42-28-11-008-0040	56-43-42-28-11-003-0040
		56-43-42-28-11-004-0042	56-43-42-28-11-003-0050
		56-43-42-28-11-008-0030	56-43-42-28-11-003-0070
		56-43-42-28-11-008-0130	56-43-42-28-11-003-0090
		56-43-42-28-11-008-0010	56-43-42-28-11-003-0101
		56-43-42-28-11-004-0120	56-43-42-28-11-003-0130
		56-43-42-28-11-004-0130	56-43-42-28-11-003-0140
		56-43-42-28-11-004-0110	56-43-42-28-11-003-0150
		56-43-42-28-11-004-0150	56-43-42-28-11-003-0161
Section, Township, Range		28-42-43	
Traffic Analysis Zone		146	
Future Land Use Designation		Downtown Mixed Use and Working Waterfront	
Zoning Designation		Downtown Core, Downtown Marine and Downtown Residential	
Proposed Zoning Designation		Downtown Core and Downtown Marine	
Use		Marine Related Businesses, Wet and Dry Boat Storage	
		908,226 SF	20.85 AC
	Pervious	183,387 SF	4.21 AC
	Impervious	734,857 SF	16.87 AC
Submerged Land		7,841 SF	0.18 AC
Building Coverage		126,760 SF	2.91 AC
FAR		0.17	
Height		50'	

Setbacks:	Required	Provided
Front Broadway Street	12 FT to 15 FT	12 FT
Primary Streets	10 FT to 15 FT	10 FT
Secondary Streeets	10 FT	10 FT
Rear	10 FT	0*
Side Interior	0 FT	0

(*Considered Interior to the Site)

Parking

Buildings	Square Footage or Unit Count	Parking Ratio	Required Parking
Building 01 (Industrial/Office) (1st Floor Industrial / 2nd & 3rd Floor Office)	15,660 SF Industrial 31,320 SF Office	1 Space / 500 SF of Industrial & 1 Space / 300 SF of Office	Industrial: 31 Office: 105
Building 02 (Industrial/Office) (1st Floor Industrial / 2nd & 3rd Floor Office)	16,385 SF Industrial 32,770 SF Office	1 Space / 500 SF of Industrial & 1 Space / 300 SF of Office	Industrial: 33 Office: 110
Building 04 (Maintenance Bldg.)	5,575 SF Industrial	1 Space / 500 SF of Industrial	Industrial: 11
Building 05 (Maintenance Bldg.)	14,400 SF Industrial	1 Space / 500 SF of Industrial	Industrial: 29
Upland Work Area	38 Boats	1 Space / 4 Dry Storage Boats	Upland Work Area: 10
Building 06 (Parking Garage)	(No Parking)	(No Parking)	(No Parking)
Building 07 (Private Ammenity Area)	(No Parking)	(No Parking)	(No Parking)
Viking Shared Parking	29,778 SF Industrial	1 Space / 500 SF of Industrial	~60 Spaces
Boathouse Marine	Existing Spaces	-	6
South Facility Contractors	Office / Trade / Subs	-	130 Spaces
ADA	501 to 600 Parking Spaces	-	10 Spaces
		Total Required Parking	**525**
		Total Provided Parking	**530**
		Total ADA Parking Provided	**12**

NOTE: ALL LANDSCAPE ELEMENTS INSTALLED WITHIN THE PUBLIC RIGHT OF WAY SHALL BE THE MAINTENANCE OBLIGATION OF THE PROJECT.

FEMA FLOOD MAP: 12099C0393F
FLOOD ZONE X
100 YEAR FLOOD ELEVATION 6.00 NAVD 1988

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
MICHAEL D. SPRUCE, P.E.
FL LICENSE NUMBER 52776
DATE:

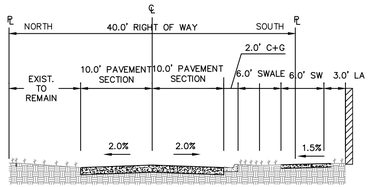
KHA PROJECT	145994004
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	JPL
DRAWN BY	AMS
CHECKED BY	MDS

SITE PLAN

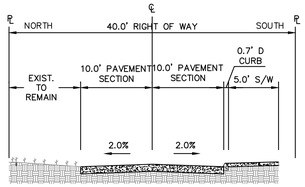
SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS FL
RIVIERA BEACH

SHEET NUMBER
P-100

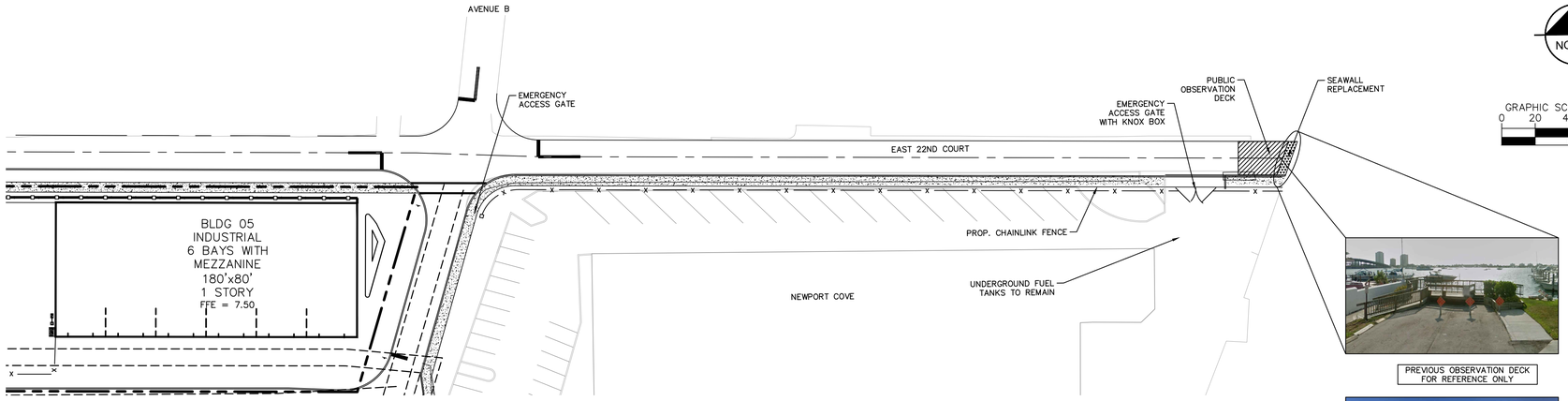
Plotted By:Erlie, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:P-100 SITE PLAN May 08, 2023 08:35:42pm K:\bca_civil\145994004 - safe harbor riviera beach\CADD\plansheets\C-400 SITE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adoption by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, inc.



22ND COURT TYPICAL SECTION
BROADWAY – AVENUE B



22ND COURT TYPICAL SECTION
AVENUE B – SEAWALL



PREVIOUS OBSERVATION DECK
FOR REFERENCE ONLY

PROPOSED OBSERVATION DECK
FOR REFERENCE ONLY

GRAPHIC SCALE IN FEET
0 20 40 80

FEMA FLOOD MAP: 12099C0393F
FLOOD ZONE X
100 YEAR FLOOD ELEVATION 6.00 NAVD 1988

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
MICHAEL D. SPRUCE, P.E.
FL LICENSE NUMBER
52776
DATE:

KHA PROJECT	145994004
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	JPL
DRAWN BY	AMS
CHECKED BY	MDS

OFFSITE IMPROVEMENT PLAN

SAFE HARBOR RIVIERA BEACH

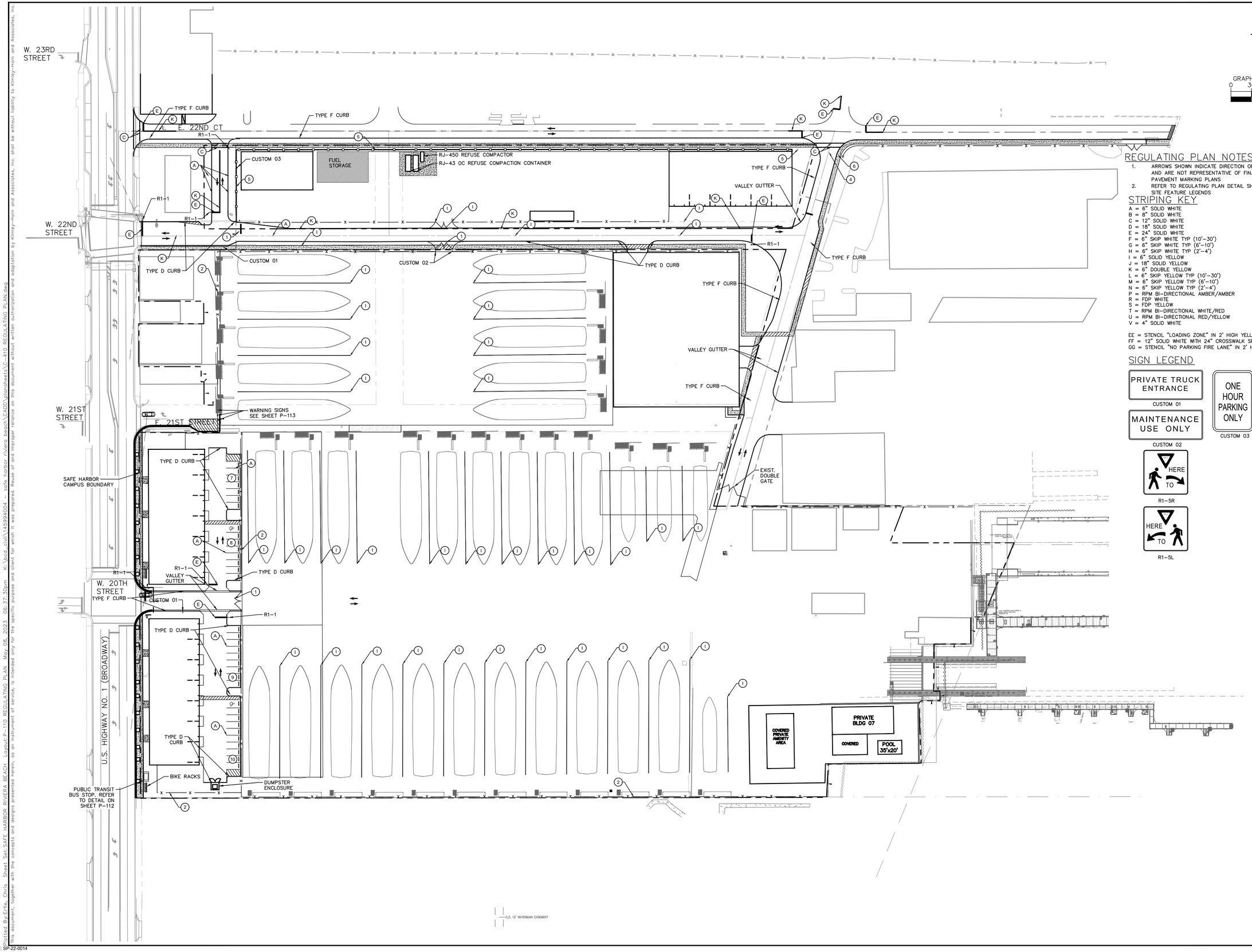
PREPARED FOR
SAFE HARBOR MARINAS

RIVIERA BEACH FL

SHEET NUMBER
P-101

Plotted By:Effie, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:P-101 OFFSITE IMPROVEMENT PLAN May 08, 2023 08:35:50pm K:\bcd_civil\145994004 - safe harbor riviera beach\CADD\plansheets\C-400 SITE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

Plotted By:Erfle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:P-110 REGULATING PLAN May 08, 2023 08:37:30pm K:\Ved_civil\145994004 — safe harbor riviera beach\CAD\plansheets\C-410 REGULATING PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



REGULATING PLAN NOTES

1. ARROWS SHOWN INDICATE DIRECTION OF TRAFFIC AND ARE NOT REPRESENTATIVE OF FINAL PAVEMENT MARKING PLANS
2. REFER TO REGULATING PLAN DETAIL SHEETS FOR SITE FEATURE LEGENDS

STRIPING KEY

A = 6" SOLID WHITE
B = 8" SOLID WHITE
C = 12" SOLID WHITE
D = 18" SOLID WHITE
E = 24" SOLID WHITE
F = 6" SKIP WHITE TYP (10'-30')
G = 6" SKIP WHITE TYP (6'-10')
H = 6" SKIP WHITE TYP (2'-4')
I = 6" SOLID YELLOW
J = 18" SOLID YELLOW
K = 6" DOUBLE YELLOW
L = 6" SKIP YELLOW TYP (10'-30')
M = 6" SKIP YELLOW TYP (6'-10')
N = 6" SKIP YELLOW TYP (2'-4')
P = RPM BI-DIRECTIONAL AMBER/AMBER
R = FDP WHITE
S = FDP YELLOW
T = RPM BI-DIRECTIONAL WHITE/RED
U = RPM BI-DIRECTIONAL RED/YELLOW
V = 4" SOLID WHITE

EE = STENCIL "LOADING ZONE" IN 2' HIGH YELLOW LETTERING
FF = 12" SOLID WHITE WITH 24" CROSSWALK SPACING, WIDTH SHOWN.
GG = STENCIL "NO PARKING FIRE LANE" IN 2' HIGH YELLOW LETTERING

SIGN LEGEND

PRIVATE TRUCK ENTRANCE
CUSTOM 01

ONE HOUR PARKING ONLY
CUSTOM 03

MAINTENANCE USE ONLY
CUSTOM 02

HERE TO
R1-5R

HERE TO
R1-5L

		BY
		DATE
	REVISIONS	
		No.

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
MICHAEL D. SPRUCE, P.E.
FL LICENSE NUMBER 52776
DATE:

KHA PROJECT 145994004
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

REGULATING PLAN

SAFE HARBOR RIVIERA BEACH

PREPARED FOR
SAFE HARBOR MARINAS FL
RIVIERA BEACH

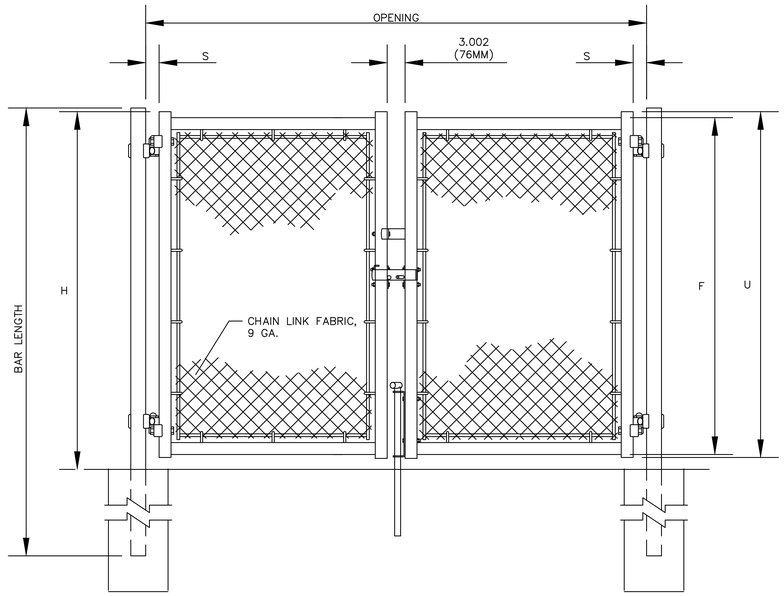
SHEET NUMBER
P-110

PVC COATED CHAIN LINK DOUBLE GATE:

SIZE: 6'–0" H x 12' W or
4'–0" H X 12' W
(See plans)

COLOR: ALL PIPE AND CHAIN LINK COMPONENTS TO BE PVC VINYL COATED BLACK. ALL OTHER COMPONENTS TO BE PRIMED AND PAINTED BLACK

1. POST FOUNDATIONS TO BE DESIGNED PER CURRENT FLORIDA BUILDING CODE FOR WIND SPEED AT THE SUBJECT PROPERTY.
2. INSTALL PER MANUFACTURER'S SPECIFICATION. SUBMIT SHOP DRAWING AND COLOR SAMPLES FOR APPROVAL. SIGN FOUNDATION DESIGN PER CONTRACTOR.
3. PROVIDE GALV. LOCKING CLASP, PAINTED BLACK.
4. QUANTITY: AS SHOWN ON CIVIL SHEETS



NOM HEIGHT (H)	UPRIGHT HT (U)	FRAME HT (F)
6'–0"	5'–10"	5'–8 1/2"
4'–0"	3'–10"	3'–8 1/2"

OPENING	GATE POSTS	HINGE SPACE (S)
FACE TO FACE	SQ & RND SIZES	POST TO UPRIGHT
12'–0" [3658MM]	2.875" [73MM] OD	ROUND GATE POSTS: 2 1/4" [57MM]

1 PVC COATED CHAIN LINK GATE
ELEVATION

SCALE: N.T.S

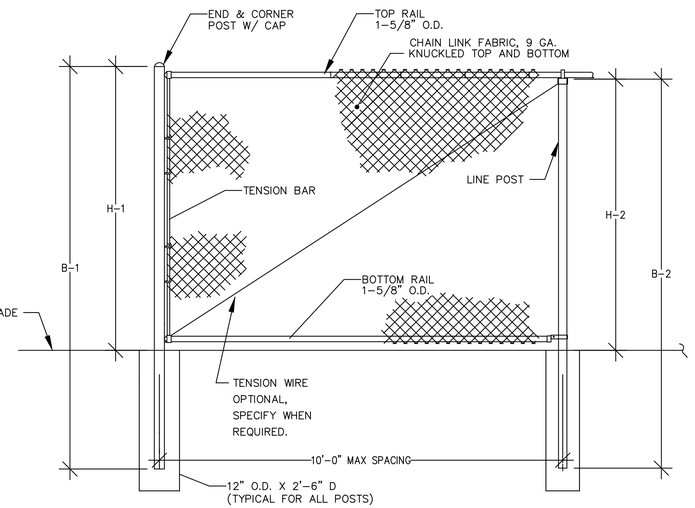
PVC COATED CHAIN LINK FENCE:

SIZE: 6'–0" H or 4'–0" H
(See plans)

DESIGN: WITH TOP AND BOTTOM RAIL, AS SHOWN.

COLOR: ALL PIPE AND CHAIN LINK COMPONENTS TO BE PVC VINYL COATED BLACK. ALL OTHER COMPONENTS TO BE PRIMED AND PAINTED BLACK

1. FENCE AND POST FOUNDATIONS TO BE DESIGNED PER CURRENT FLORIDA BUILDING CODE FOR WIND SPEED AT THE SUBJECT PROPERTY.
2. INSTALL PER MANUFACTURER'S SPECIFICATION. SUBMIT SHOP DRAWING AND COLOR SAMPLES FOR APPROVAL. SIGN FOUNDATION DESIGN PER CONTRACTOR.
4. QUANTITY: XXXX



FENCE HEIGHT	END & CORNER POSTS = 2–7/8" O.D.		LINE POSTS – 2–3/8" O.D.	
NOMINAL HEIGHT	B–1 BAR LENGTH	H–1 HEIGHT ABOVE GRADE	B–2 BAR LENGTH	H–2 HEIGHT ABOVE GRADE
6'–0"	8'–0"	6'–0 5/8"	7'–8"	5'–8 7/8"
4'–0"	6'–0"	4'–0 5/8"	5'–8"	3'–8 7/8"

2 PVC COATED CHAIN LINK FENCE
ELEVATION

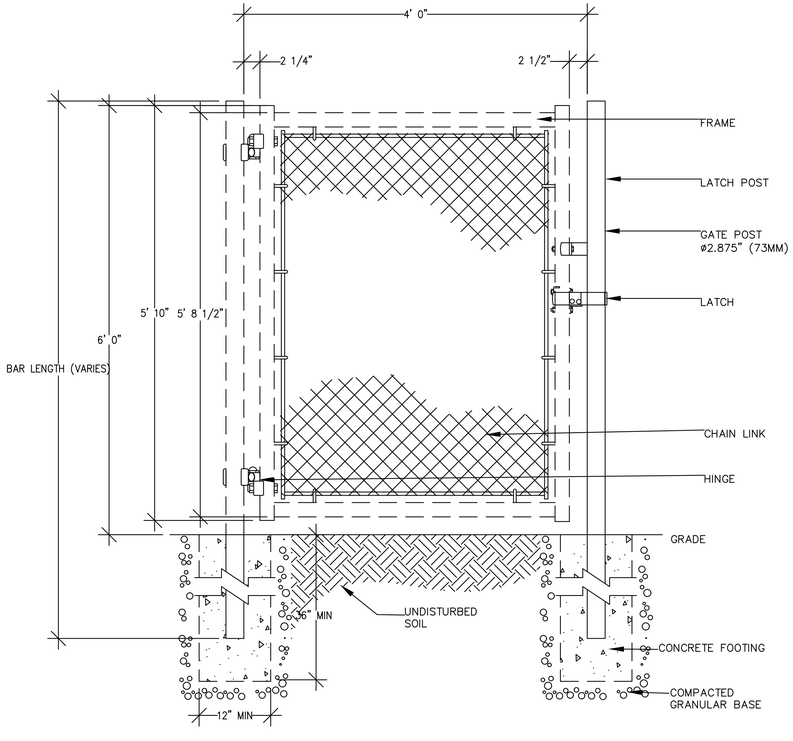
SCALE: N.T.S.

PVC COATED CHAIN LINK SINGLE GATE:

SIZE: 6'–0" H x 4' W or

COLOR: ALL PIPE AND CHAIN LINK COMPONENTS TO BE PVC VINYL COATED BLACK. ALL OTHER COMPONENTS TO BE PRIMED AND PAINTED BLACK

1. POST FOUNDATIONS TO BE DESIGNED PER CURRENT FLORIDA BUILDING CODE FOR WIND SPEED AT THE SUBJECT PROPERTY.
2. INSTALL PER MANUFACTURER'S SPECIFICATION. SUBMIT SHOP DRAWING AND COLOR SAMPLES FOR APPROVAL. SIGN FOUNDATION DESIGN PER CONTRACTOR.
3. PROVIDE GALV. LOCKING CLASP, PAINTED BLACK.
4. QUANTITY: AS SHOWN ON PLANS



3 PVC COATED CHAIN LINK GATE
ELEVATION

SCALE: N.T.S

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.

1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
MICHAEL D. SPRUCE, P.E.
FL LICENSE NUMBER
52776
DATE:

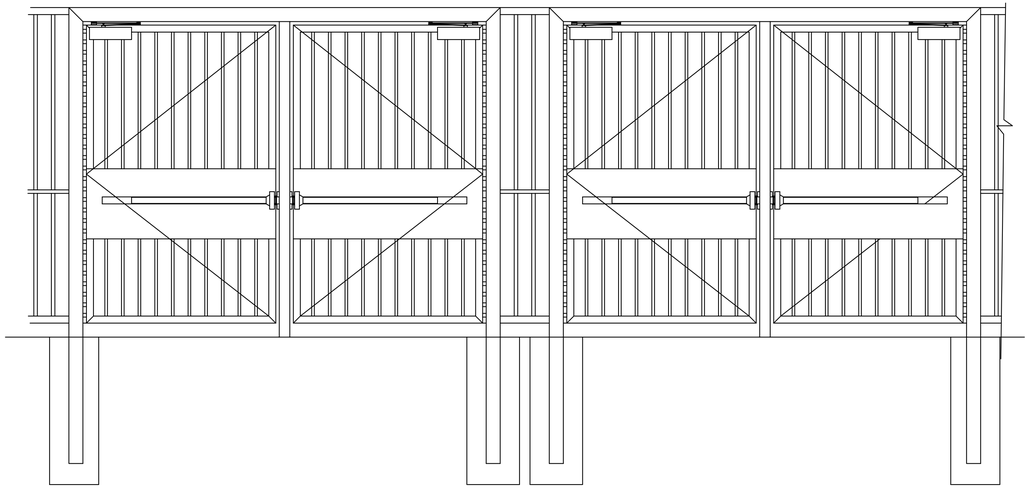
KHA PROJECT 145994004
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

REGULATING PLAN DETAILS

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS FL
RIVIERA BEACH

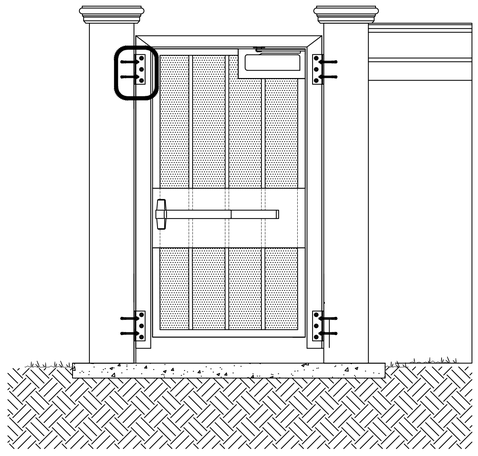
SHEET NUMBER
P-111

Plotted By:Effie, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:P-111 REGULATING PLAN DETAILS May 08, 2023 06:37:32pm K:\Ved_civ\145994004 — safe harbor riviera beach\CAD\Plansheets\C-410 REGULATING PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc

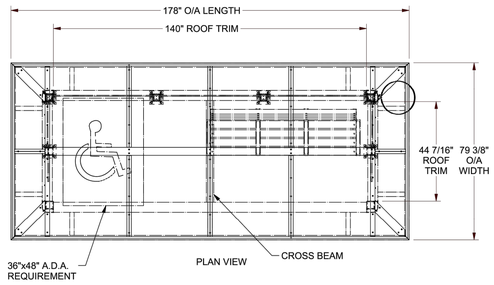


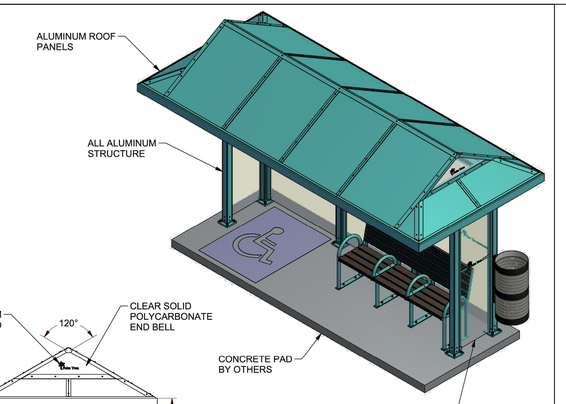
4 ALUMINUM GATE DETAIL (SEE ARCH FOR DETAILS)
ELEVATION

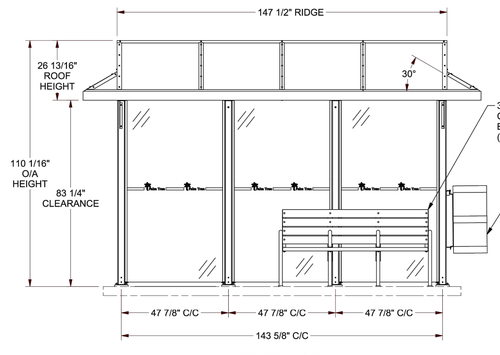
5 SCREEN WALL DETAIL (SEE ARCH FOR DETAILS)
ELEVATION

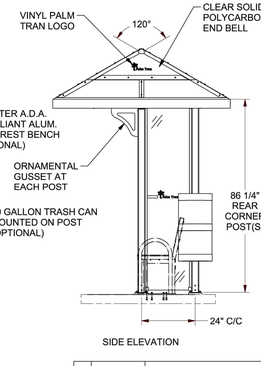


6 ALUMINUM FENCE DETAIL (SEE ARCH FOR DETAILS)
ELEVATION









NOTES:
-COLOR AS PER CUSTOMER SPEC
-GLASS AS PER WORKORDER
-ALL STAINLESS STEEL FASTENERS USED

Daytech
www.daytechlimited.com

Daytech Limited
70 Disco Road, Suite #101
Toronto ON M9W 1L9
CANADA
Tel: (416) 675-1105
Fax: (416) 675-7183
Toll Free: 1-877-DAY-1907

Daytech Limited will not be held responsible for any measurements or details affecting work other than its own or any errors occuring due to the use of these drawings by parties other than the intended recipients. These drawings remain the property of Daytech Limited, and all rights pertaining to reproduction and dissemination, in part or as a whole, by electronic or any other means, are strictly reserved by Daytech Limited.

No.	Date	Revision Description	By

Title: APC06X14N-PALLADIAN SHELTER-6 x 14 ROOF 2 x 12 FOOTPRINT

Drawn By	Date Drawn	Drawing No.	Project No.
E.P.	9/2/2010	4635-00	Palm Tran
Checked By	Scale		
	1:32		

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
MICHAEL D. SPRUCE, P.E.
FL LICENSE NUMBER
52776
DATE: ———

KHA PROJECT	145994004
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	JPL
DRAWN BY	AMS
CHECKED BY	MDS

REGULATING PLAN DETAILS

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

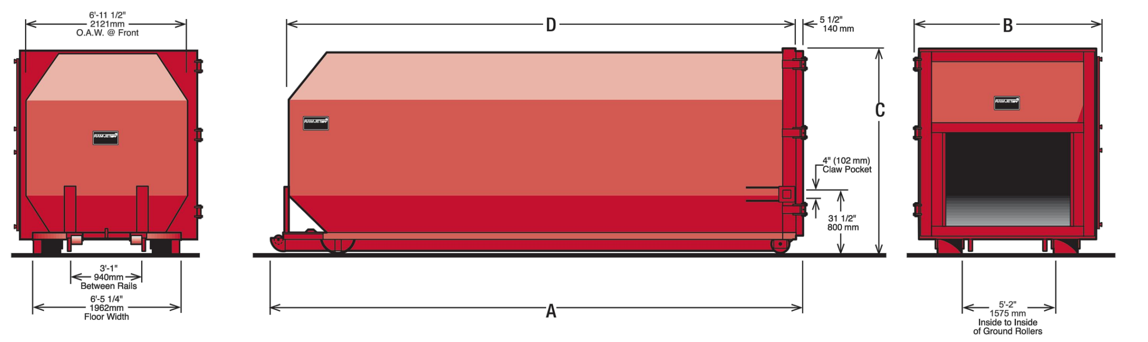
SHEET NUMBER
P-112

Plotted By:Erfle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:P-112 REGULATING PLAN DETAILS May 08, 2023 08:37:35pm K:\Vcd-civ\145994004 - safe harbor riviera beach\CAD\plansets\C-410 REGULATING PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

COMPACTION CONTAINERS

Octagon and OC Ultra® Compaction Containers

Dimensions and Specifications



Dimensions	A	B	C	D	Capacity	Maximum Force Rate	Weight
RJ-30 OC	16'-11 1/2" (5169mm)	8' (2438mm)	8'-8" (2642mm)	15'-5 1/2" (4712mm)	30 cy. 23 m³	80,000 lbf 355.8 kN	5,500 lbs. 2495 kg
RJ-43 OC	23'-8 1/2" (7226mm)	8' (2438mm)	8'-8" (2642mm)	20'-11" (6375mm)	40 cy. 31 m³	80,000 lbf 355.8 kN	7,200 lbs. 3366 kg
RJ-40 OC	22'-2" (6756mm)	8' (2438mm)	8'-8" (2642mm)	20'-11" (6375mm)	40 cy. 31 m³	80,000 lbf 355.8 kN	6,700 lbs. 3039 kg
RJ-40 OC Ultra	22'-2" (6756mm)	8' (2438mm)	8'-8" (2642mm)	20'-11" (6375mm)	40 cy. 31 m³	70,000 lbf 311.3 kN	5,600 lbs. 2540 kg
RJ-40 OC/XHD	22'-2" (6756mm)	8' (2438mm)	8'-8" (2642mm)	20'-11" (6375mm)	40 cy. 31 m³	120,000 lbf 533.73 kN	7,900 lbs. 3583 kg

Compactor Rental and Leasing Programs Available

For detailed specifications, recommendations, or free economic studies comparing various systems, contact Marathon Customer Care at ***1-800-633-8974***.

RAMJET®
Stationary and self-contained compactors.

Authorized Dealer:

Marathon Equipment Company
P.O. Box 1798
Vernon, AL 35592-1798
800.633.8974
www.marathonequipment.com
NJPA Contract #060612-ESG

National Waste & Recycling Association — Collect. Recycle. Innovate.
ISRI MEMBER

Environmental Solutions Group — a DOVER company
www.doveresg.com

Pictures in this literature are illustrative only. Specifications are subject to change without notice in order to accommodate improvements to the equipment. Complies with ANSI standard Z245.2, all applicable OSHA Regulations, and certified under WASTEC's Stationary Compactor Certification Program. Products must be used with safe practice and in accordance with said regulations and standards.

© 2013 Marathon Equipment Company. All rights reserved. Printed in USA. | SWS-M00110-070913

WASTE COMPACTORS

MARATHON® a DOVER company

RJ-450 Compactor

Overview

Perfect for:

- Mini Transfer Stations
- Municipal Recycling Drop-Off Centers
- Distribution Centers
- Manufacturing Facilities

Ram Guide System

The packing ram is supported by specially formulated cast-iron shoes which ride on replaceable wear strips. This exclusive design protects the charge-box floor from the full force of the packing ram, extending its life and dramatically reducing compaction-robbing friction.

Control Station

The RJ-450 features an advanced, simplified three-button control system. It is key-operated, fully automatic, and contained in a weatherproof NEMA 4 enclosure. Connected to the power pack with 13' of conduit, the controls can be installed in the location of your choice for operator convenience.

RAMJET®

Why Marathon® Equipment Is the Preferred Choice

Marathon components are selected for longevity and minimum maintenance, with special attention given to the selection of high-duty cycle components. Stress engineering provides the optimum degree of structural integrity. Only the best materials are used and the highest standards of quality are observed in the manufacturing process.

Marathon RJ-450 compactor features an extra-large 60" by 67 ½" clear-top opening that accepts large, bulky items with ease. Ruggedly built to meet the challenge, this unit packs a powerful 56,500 lbs. of crushing force.

The RJ-450HD features an even greater compaction force and faster cycle time, making it ideal for higher volume, heavy-duty industrial applications.

Industrial-Grade Systems

The RJ-450 features industrial-grade electrical and hydraulic systems that are UL and CUL listed. This means trouble-free operation and top performance year after year. The **Marathon** side-mounted power unit combines the convenience and ease-of-maintenance that comes with a remote power pack with the space savings and ease-of-installation of an integrated power pack.

Transfer Station Applications

The RJ-450 can be fitted with a variety of material handling equipment such as chutes, hoppers, and dumpers. The compactor shown is fitted with a side-fed hopper and a ground level dumper. Cart dumpers can be custom built to your specifications to accommodate existing cart systems.

For more information or to order, call 1-800-633-8974 or visit us at **www.marathonequipment.com**

DESIGN

Shelters shall have provisions to accommodate older adults and people with disabilities to meet ADA Standards. A shelter that is accessible to people in wheelchairs must have a minimum clear floor area that is 30 inches wide and 48 inches deep and entirely within the perimeter of the shelter.[5] Shelter access entry and exit points shall provide a minimum clear width of 4 feet to meet State requirements (ADA requirements are 3 feet). The ADA-mandated B&A area can be extended into clear space within the shelter. However, no obstructions to the 5-foot-by-8-foot area shall be allowed. If a bench is provided within a bus shelter, the 30-inch-by-48-inch clear floor area should be located adjacent to the bench to allow shoulder-to-shoulder seating with a companion for wheelchair users.

There shall be no vertical change in elevation greater than ¼-inch untreated or ½-inch treated to a slope of 1:2 along the walking surfaces between the sidewalk or bus B&A area and the shelter.[6] Changes in level greater than ½-inch must be ramped in compliance with 405 or 406 of the ADA Standards.[5]

Shelters should incorporate seating whenever possible, both to make the service more attractive in general and to serve patrons with mobility impairments (such as older adults, women who are pregnant, persons with temporary injuries, etc.).

Shelters should include route maps and schedules. To the greatest extent possible, these should be easily readable by people in wheelchairs and people who have visual impairments.[5] Shelters can also be designed to incorporate benches and/or leaning rails and may also include transit service literature, telephones, newspaper vending, and trash receptacles. When available right-of-way is limited, it is better to provide a smaller shelter than not to provide a shelter at all.

All pedestrian infrastructure and amenities should be without any sharp edges or protruding elements.[7]

Shelter Dimensions

Dimensions for shelters of various sizes are shown in Figures 3.3.3 through 3.3.10. The size and design of shelters varies with the number of boardings at a bus stop and space availability. Per FAC 14-20.003, the maximum height of a shelter cannot exceed 10 feet[3] for shelters located on the

Figure 3.3.3 | Cross-section of a small bus shelter with a leaning rail and no seating, with typical vertical dimensions.

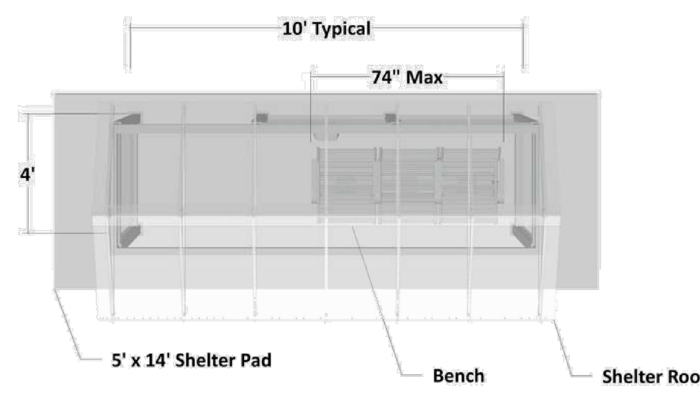
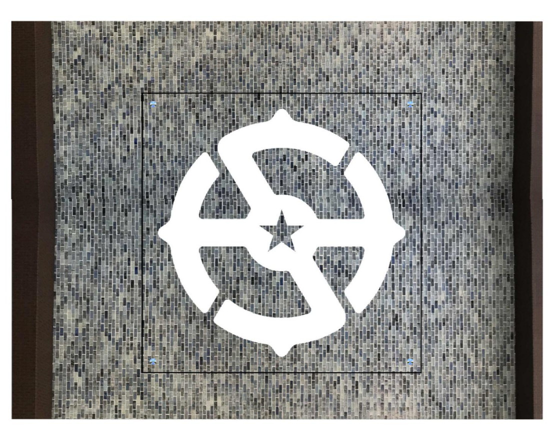
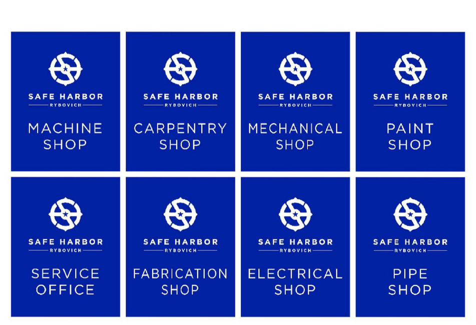


Figure 3.3.4 | Typical dimensions of a small bus shelter with seating.



48"x48"x1/4" Clear Acrylic Sign with 1/4" Thick White Acrylic Logo

1/4" Thick Polished Aluminum Letter and Logo



24"x18.75"x1" Sintra(PVC) Signs

18"x12"x.080 Reflective Signs

24"x16"x1/8" Sintra(PVC) Signs

36"x36"x1/4" Max-Metal Signs mounted on 2"x2" Aluminum Posts

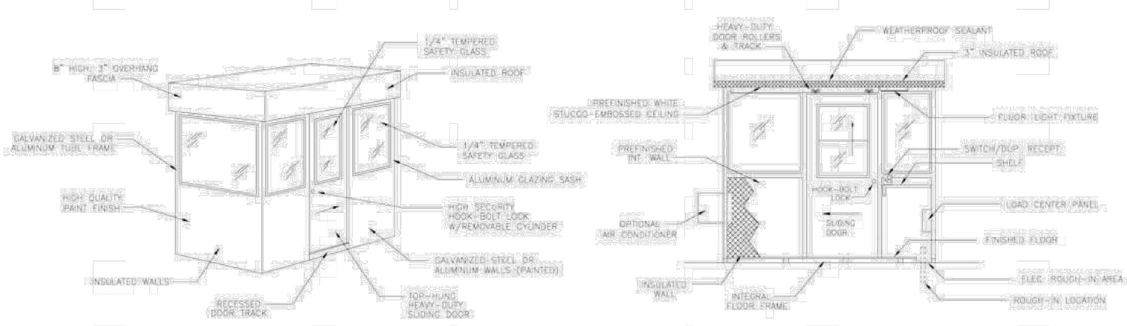
42"x72"x1/8" Max-Metal Signs

Mardan Fabrication

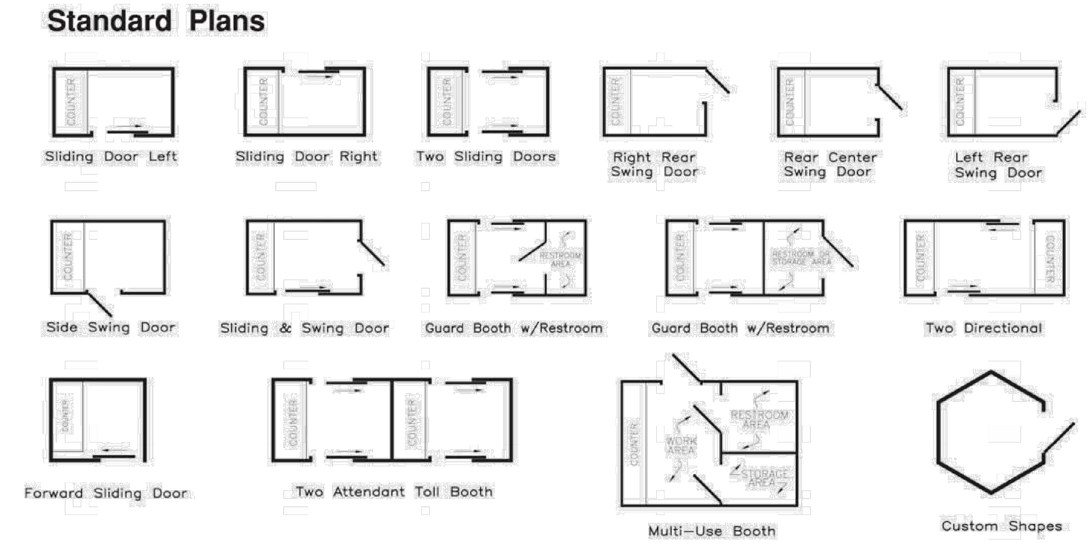
MFI

Tel: (800) 882-5820
Fax (855) 313-4159
www.mardanfab.com

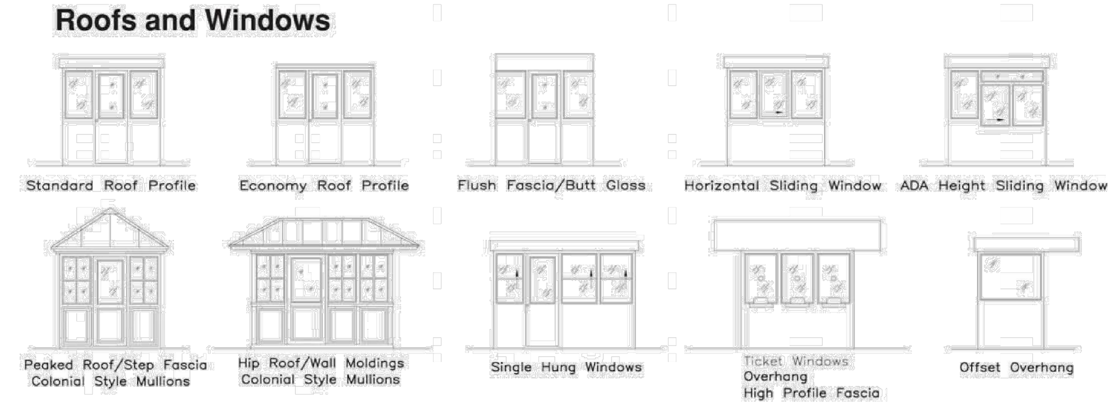
VISTA SERIES



Standard Plans



Roofs and Windows



1 WARNING SIGNS

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE, SUITE 201,
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

No.	REVISIONS	DATE	BY

LICENSED PROFESSIONAL
MICHAEL D. SPRUCE, P.E.
FL LICENSE NUMBER 52776
DATE: ____

KHA PROJECT 145994004
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

REGULATING PLAN DETAILS

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
P-113

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.
Plotted By: Erfle, Chris Sheet Set: SAFE HARBOR RIVIERA BEACH Layout: P-113 REGULATING PLAN DETAILS May 08, 2023 06:37:43pm K:\bcd_civil\145994004 - safe harbor riviera beach\CADD\plansheets\C-410 REGULATING PLAN.dwg

Plotted By:Erfle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-100 PHASE 1 MAP May 08, 2023 06:38:56pm K:\bca_civ\145994004 – safe harbor riviera beach\CADD\plansheets\C-200 EXISTING CONDITIONS.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, inc. shall be without liability to Kimley-Horn and Associates, inc

W. 23RD STREET

E. 22ND CT

CONSTRUCT 8' MASONRY WALL TO ENCLOSE AREA

CONSTRUCT MAINTENANCE BUILDING AND ASSOCIATED INFRASTRUCTURE

ABOVE GROUND FUEL TANK STORAGE AREA

CONSTRUCT 8' MASONRY WALL TO ENCLOSE AREA

N89°13'47"W 942.02'

BLDG 04 MAINTENANCE 56'-10" 1 STORY FF = 9.00

CONSTRUCT ASPHALT PAD

CONSTRUCT ASPHALT PAD

S00°37'23"W 112.93'

S89°15'14"E 45.91'

S00°44'46"W 40.00'

E. 22ND STREET

N89°15'14"W 140.93'

S00°37'23"W 75.00'

S89°15'14"E 95.07'

EXIST. BUILDINGS TO REMAIN

S00°38'00"W 33.03'

N89°14'35"W 95.06'

S00°37'23"W 62.66'

S89°14'06"E 90.85'

EXIST. GENERAL MAINTENANCE AND STORAGE

AVENUE C

EXIST PARKING, GENERAL MAINTENANCE AND STORAGE

AVENUE B

S50.03'

N16°42'37"E

S00°38'00"W 22.30'

S89°14'06"E 4.20'

S00°38'00"W 34.04'

S89°13'37"E 22.54'

W. 21ST STREET

E. 21ST STREET

S00°46'26"W 40.00'

N89°13'43"W 1.00'

PROP. 25'X40' FPL EASEMENT

CONSTRUCT 10' SIDEWALK AND IMPROVEMENTS ALONG BROADWAY

LANDSCAPE ZONE AND 8' WALL

BROADWAY

S00°37'23"W 226.87'

S89°13'37"E 20.00'

W. 20TH STREET

PRIVATE TRUCK BROADWAY ENTRANCE

S00°37'23"W 40.00'

N89°13'37"W 20.00'

S00°37'21"W 268.23'

BROADWAY

CONSTRUCT (3) BOAT UPLAND SLIPS AND ASSOCIATED UTILITY INFRASTRUCTURE AND PERIMETER FENCE

EXISTING BUILDINGS (PHASES 1–5)

N89°13'37"W 234.61'

N21°53'25"E 58.08'

N89°13'37"W 181.79'

N23°20'25"E 117.58'

EXIST. DOCK

S89°13'04"E 18.27'

N00°58'29"E 39.48'

S89°13'37"E 53.64'

N01°25'46"E 89.01'

EXIST. BOAT LIFT

N89°13'46"W 9.39'

N00°46'29"E 75.32'

EXIST. DOCK

S89°32'54"E 26.75'

N01°07'48"W 88.28'

S89°46'48"E 135.71'

N03°49'27"E 48.85'

EXISTING AMENITY AREA

S89°13'37"E 1003.74'

NORTH

GRAPHIC SCALE IN FEET
0 30 60 120

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
MICHAEL D. SPRUCE, P.E.
FL LICENSE NUMBER 52776
DATE:

KHA PROJECT 145994004
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

PHASE 1 MAP

SAFE HARBOR RIVIERA BEACH

PREPARED FOR
SAFE HARBOR MARINAS FL
RIVIERA BEACH

SHEET NUMBER
C-100

RECONSTRUCT 22ND STREET AND UTILITY INFRASTRUCTURE

CONSTRUCT AVENUE D

CONNECT MAINTENANCE BUILDING TO NEW UTILITY INFRASTRUCTURE

CONSTRUCT SIDEWALK AND LANDSCAPE IMPROVEMENTS ALONG 22ND COURT AND AVENUE B STREET FRONTAGE

AVENUE C TO BE DEMOLISHED IN PHASE 2 FOR BOAT SLIP INSTALLATION. DRAINAGE CONNECTIONS BETWEEN E 22ND CT AND 22ND STREET TO OCCUR IN PHASE 2 AND EXPAND MAINTENANCE AREA PAVEMENT, REMOVE FENCES ALONG AVENUE C RIGHT OF WAY, COMPLETE STREETSCAPE IMPROVEMENTS ALONG 22ND COURT

CONSTRUCT SIDEWALK AND LANDSCAPE IMPROVEMENTS ALONG 22ND COURT AND AVENUE B STREET FRONTAGE

CONSTRUCT CIVIC OPEN SPACE IMPROVEMENTS

W. 23RD STREET

E. 22ND CT

N89°13'47"W 942.02'

BLDG 04 MAINTENANCE 56'x105' 1 STORY FFE = 9.90

S00°37'23"W 112.83'

S00°37'23"W 75.00'

S00°14'45"W

22ND STREET 40.00'

ADD TRASH COMPACTORS AND DUMPSTERS FOR SITE USE

CONSTRUCT UTILITY INFRASTRUCTURE FOR FUTURE BUILDING

N89°15'14"W 140.95'

S00°37'23"W 75.00'

S89°15'14"E 95.07'

EXIST. BUILDINGS TO REMAIN

S00°45'50"W 53.03'

N89°14'35"W 95.06'

S00°37'27"W 82.66'

S89°14'06"E 90.85'

CONSTRUCT ACCESS IMPROVEMENTS TO 22ND ST

PAINT NEW BOAT SLIP STRIPES (TYP.)

CONSTRUCT UTILITY INFRASTRUCTURE FOR FUTURE PARKING GARAGE AND PROPOSED BOAT SLIP USE

CONSTRUCT (101) BOAT UPLAND SLIPS AND ASSOCIATED UTILITY INFRASTRUCTURE AND PERIMETER FENCE

AVENUE D

N16°49'31"E 500.03'

S00°58'00"W 13.50'

N89°14'06"E 1.41'

S00°38'08"W 84.04'

S89°14'31"E 22.54'

S00°45'36"W 46.00'

W. 21ST STREET

E. 21ST STREET

N89°13'43"W 1274.68'

BROADWAY

S00°37'23"W 226.87'

S89°13'37"W 20.00'

W. 20TH STREET

PRIVATE TRUCK ROADWAY ENTRANCE

S00°37'23"W 40.00'

N89°13'37"W 20.00'

S00°37'21"W 288.23'

S89°13'37"E 1005.74'

EXISTING BUILDINGS (PHASES 1-5)

N89°13'37"W 234.61'

N21°53'25"E 58.08'

N89°13'37"W 181.79'

N23°20'23"E 117.38'

EXIST. DOCK

S89°13'04"E 18.27'

N00°58'29"E 39.48'

S89°13'37"E 53.64'

N01°25'46"E 89.01'

EXIST. BOAT LIFT

N89°13'46"W 9.39'

N00°46'23"E 113.82'

EXIST. DOCK

S89°32'54"E 28.75'

N01°07'49"W 38.28'

S89°46'48"E 135.71'

N03°49'27"E 48.85'

EXISTING AMENITY AREA

NORTH

GRAPHIC SCALE IN FEET
0 30 60 120

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE, SUITE 201,
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL

MICHAEL D. SPRUCE, P.E.

FL LICENSE NUMBER 52776

DATE: ——

KHA PROJECT 145994004

DATE MAY 2023

SCALE AS SHOWN

DESIGNED BY JPL

DRAWN BY AMS

CHECKED BY MDS

PHASE 2 MAP

SAFE HARBOR RIVIERA BEACH

PREPARED FOR

SAFE HARBOR MARINAS FL

RIVIERA BEACH

SHEET NUMBER

C-101

Plotted By:Erfle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-101 PHASE 2 MAP May 08, 2023 06:39:04pm K:\bcd_civil\145994004 – safe harbor riviera beach\CADD\plotsheets\C-200 EXISTING CONDITIONS.dwg

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

Plotted By:Erfle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-102 PHASE 3 MAP May 08, 2023 06:39:11pm K:\bca_civil\145994004 – safe harbor riviera beach\CADD\plansheets\C-200 EXISTING CONDITIONS.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

W. 23RD STREET

E. 22ND CT

N89°13'47"W 942.02'

BLDG 04
MAINTENANCE
56'x105'
1 STORY
FFE = 9.90

S00°37'23"W 112.83'

S89°15'14"E 45.91'

S00°44'46"W

E. 22ND STREET 40.00'

CONSTRUCT BUILDING 05 AND CONNECT TO NEW UTILITY INFRASTRUCTURE

BLDG 05
INDUSTRIAL
5 STORY W/ 2
MEZZANINE
160'x60'
FFE = 7.50
TF = 17.50

AVENUE B

N16°47'51"E 550.03'

N89°15'14"W 140.93'

S00°37'23"W 75.00'

S89°15'14"E 95.07'

EXIST. BUILDINGS TO REMAIN

S00°38'00"W 33.03'

N89°14'35"W 95.06'

S00°37'27"W 82.66'

S89°14'06"E 90.85'

S00°38'00"W 22.30'

S89°14'06"E 4.20'

S00°38'00"W 34.04'

S89°13'37"E 22.54'

CONSTRUCT UTILITY INFRASTRUCTURE FOR FUTURE PARKING GARAGE AND PROPOSED BOAT SLIP USE

PARKING GARAGE SQFT
184,722
FFE = 7.50
498 PARKING SPACES

W. 21ST STREET

E. 21ST STREET

S00°46'26"W 40.00'

N89°13'43"W 117.69'

BROADWAY

S00°37'23"W 226.87'

EXISTING BUILDINGS (PHASES 1-5)

N89°13'37"W 234.61'

N21°53'25"E 58.08'

N89°13'37"W 181.79'

N23°20'24"E 117.38'

EXIST. DOCK

S89°13'04"E 18.27'

N00°58'29"E 39.48'

S89°13'37"E 53.64'

N01°25'46"E 89.01'

EXIST. BOAT LIFT

N89°13'46"W 9.39'

N00°46'23"E 73.82'

EXIST. DOCK

S89°32'54"E 26.75'

N01°07'48"W 88.35'

S89°46'48"E 135.71'

N03°49'27"E 48.85'

EXISTING AMENITY AREA

W. 20TH STREET

S89°13'37"E 20.00'

PRIVATE TRUCK ROADWAY ENTRANCE

S00°37'23"W 40.00'

N89°13'37"W 20.00'

CONSTRUCT (4) BOAT UPLAND SLIPS AND ASSOCIATED UTILITY INFRASTRUCTURE

9.1'

8.0'

S00°37'21"W 388.23'

S89°13'37"E 1003.74'

DEMOLISH EXISTING MAINTENANCE AND OFFICE BUILDING

NORTH

GRAPHIC SCALE IN FEET
0 30 60 120

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE, SUITE 201,
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
MICHAEL D. SPRUCE, P.E.
FL LICENSE NUMBER
52776
DATE: ——

KHA PROJECT
145994004
DATE
MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

PHASE 3 MAP

SAFE HARBOR RIVIERA BEACH

PREPARED FOR
SAFE HARBOR MARINAS FL
RIVIERA BEACH

SHEET NUMBER
C-102

Plotted By:Erfle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-103 PHASE 4 MAP May 08, 2023 06:39:16pm K:\bcd_civil\145994004 — safe harbor riviera beach\CAD\sheets\C-200 EXISTING CONDITIONS.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

W. 23RD STREET

E. 22ND CT

N89°13'47"W 942.02'

BLDG 04
MAINTENANCE
56'x105'
1 STORY
FFE = 9.90

BLDG 05
INDUSTRIAL
6 BAYS WITH
MEZZANINE
180'x80'
1 STORY
FFE = 7.50

S00°37'23"W 112.83'

S89°15'14"E 45.91'

S00°44'46"W 40.00'

E. 22ND STREET

N89°15'14"W 140.93'

S00°37'23"W 75.00'

S89°15'14"E 95.07'

EXIST. BUILDINGS TO REMAIN

S00°38'00"W 33.03'

N89°14'35"W 95.06'

S00°37'23"W 62.66'

S89°14'06"E 90.85'

S00°38'00"W 22.30'

S89°14'06"E 4.20'

S00°38'00"W 34.04'

S89°13'37"E 22.54'

PARKING GARAGE 50FT
184'X226'
FFE = 7.00
496 PARKING SPACES

AVENUE B

N16°42'37"E 350.03'

W. 21ST STREET

E. 21ST STREET

S00°46'26"W 40.00'

N89°13'43"W 7.69'

CONSTRUCT BUILDING 01&02 AND ASSOCIATED UTILITY INFRASTRUCTURE

BROADWAY

S00°37'23"W 226.87'

BLDG 01
TRADE SHOP
AND OFFICE
(3 STORIES)
FFE = 10.50

S89°13'37"E 30.00'

PRIVATE TRUCK
ROAD/BOAT TRANSFER

N89°13'37"W 30.00'

BLDG 01
SUBCONTRACTOR
AND OFFICE
(3 STORIES)
FFE = 10.50

S00°37'21"W 268.23'

S00°37'23"W 39.13'

W. 20TH STREET

CONSTRUCT PALM TRAN STOP

CONSTRUCT BLACK VINYL COATED CHAINLINK FENCE

S89°13'37"E 1003.74'

CONSTRUCT FENCE. CONNECTO TO EXIST. FENCE AT SOUTH PROPERTY LINE

CONSTRUCT CREW AREA AND CONNECT TO EXIST UTILITY INFRASTRUCTURE. CONSTRUCT SECURITY FENCE, TIE INTO SOUTH FENCE

EXISTING BUILDINGS
(PHASES 1–5)

N89°13'37"W 234.61'

N21°53'25"E 58.08'

N89°13'37"W 181.79'

N23°20'25"E 117.58'

EXIST. DOCK

S89°13'04"E 18.27'

N00°58'29"E 39.48'

S89°13'37"E 53.64'

N01°25'46"E 89.01'

EXIST. BOAT LIFT

N89°13'46"W 9.39'

N00°46'23"E 75.32'

EXIST. DOCK

S89°32'54"E 26.75'

PRIVATE
BLDG 07

COVERED

POOL
35'x20'

S89°46'48"E 135.71'

N03°49'27"E 48.85'

N01°40'48"W 82.28'

NORTH

GRAPHIC SCALE IN FEET
0 30 60 120

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL

MICHAEL D. SPRUCE, P.E.

FL LICENSE NUMBER
52776

DATE:

KHA PROJECT
145994004

DATE
MAY 2023

SCALE AS SHOWN

DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

PHASE 4 MAP

SAFE HARBOR RIVIERA BEACH

PREPARED FOR
SAFE HARBOR MARINAS FL
RIVIERA BEACH

SHEET NUMBER
C-103

Plotted By:Erfin, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-110 KEY MAP May 08, 2023 - 06:39:23pm K:\fort_pie\Projects\145994004 – safe harbor riviera beach\CADD\plansheets\C- 200 EXISTING CONDITIONS.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

W. 23RD STREET

Sheet Number
C-200
C-300
C-500
C-600

Sheet Number
C-100
C-201
C-301
C-501
C-504
C-601

E. 22ND CT

N89°13'47"W 942.02'

BLDG 04
MAINTENANCE
56'x105'
1 STORY
FFE = 9.90

BLDG 05
INDUSTRIAL
6 BAYS WITH
MEZZANINE
180'x80'
1 STORY
FFE = 7.50

S00°37'23"W 112.83'

S89°15'14"E 45.91'

S00°44'46"W 40.00'

E. 22ND STREET

N89°15'14"W 140.93'

S00°37'23"W 75.00'

S89°15'14"E 95.07'

EXIST. BUILDINGS TO REMAIN

S00°38'00"W 33.03'

PROPOSED (10) UPLAND BOAT SLIPS

N89°14'35"W 95.06'

S00°37'23"W 82.66'

S89°14'06"E 99.85'

S00°38'00"W 22.30'

N89°14'06"E 4.20'

S00°38'00"W 34.04'

N89°13'37"E 22.94'

PARKING GARAGE 50FT
184'X226'
FFE = 7.00
496 PARKING SPACES

AVENUE B

N16°29'19"E 580.63'

W. 21ST STREET

E. 21ST STREET

S00°46'26"W 40.00'

N89°13'43"E 74.00'

BROADWAY

S00°37'23"W 226.87'

BLDG 02
TRADE SHOP
AND OFFICE
(3 STORIES)
FFE = 10.10

S89°13'37"E 20.00'

W. 20TH STREET

PRIVATE TRUCK ROADWAY ENTRANCE

S00°37'23"W 40.00'

N89°13'37"W 20.00'

BLDG 01
SUBCONTRACTOR
AND OFFICE
(3 STORIES)
FFE = 10.60

W 268.23'

PROPOSED (4) BOAT UPLAND SLIPS

Sheet Number
C-202
C-302
C-502
C-602

S89°13'37"E 1003.74'

N89°13'37"W 234.61'

N21°53'25"E 58.08'

N89°13'37"W 181.79'

N25°20'23"E 117.58'

AREA NOT WITHIN PROJECT LIMITS

S89°13'04"E 18.27'

N00°58'29"E 39.48'

S89°13'37"E 53.64'

N01°25'46"E 69.01'

N89°13'46"W 9.39'

N00°46'29"E 18.82'

S89°32'54"E 26.76'

COVERED PRIVATE AMENITY AREA

PRIVATE BLDG 07

COVERED

POOL 35'x20'

N01°07'46"W 82.78'

S89°46'48"E 135.71'

N03°49'27"E 48.85'

Sheet Number
C-203
C-303
C-503
C-603

NORTH

GRAPHIC SCALE IN FEET
0 30 60 120

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.

1615 S CONGRESS AVE, SUITE 201,
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
MICHAEL D. SPRUCE, P.E.
FL LICENSE NUMBER
52776
DATE: _____

KHA PROJECT 145994004	
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	JPL
DRAWN BY	AMS
CHECKED BY	MDS

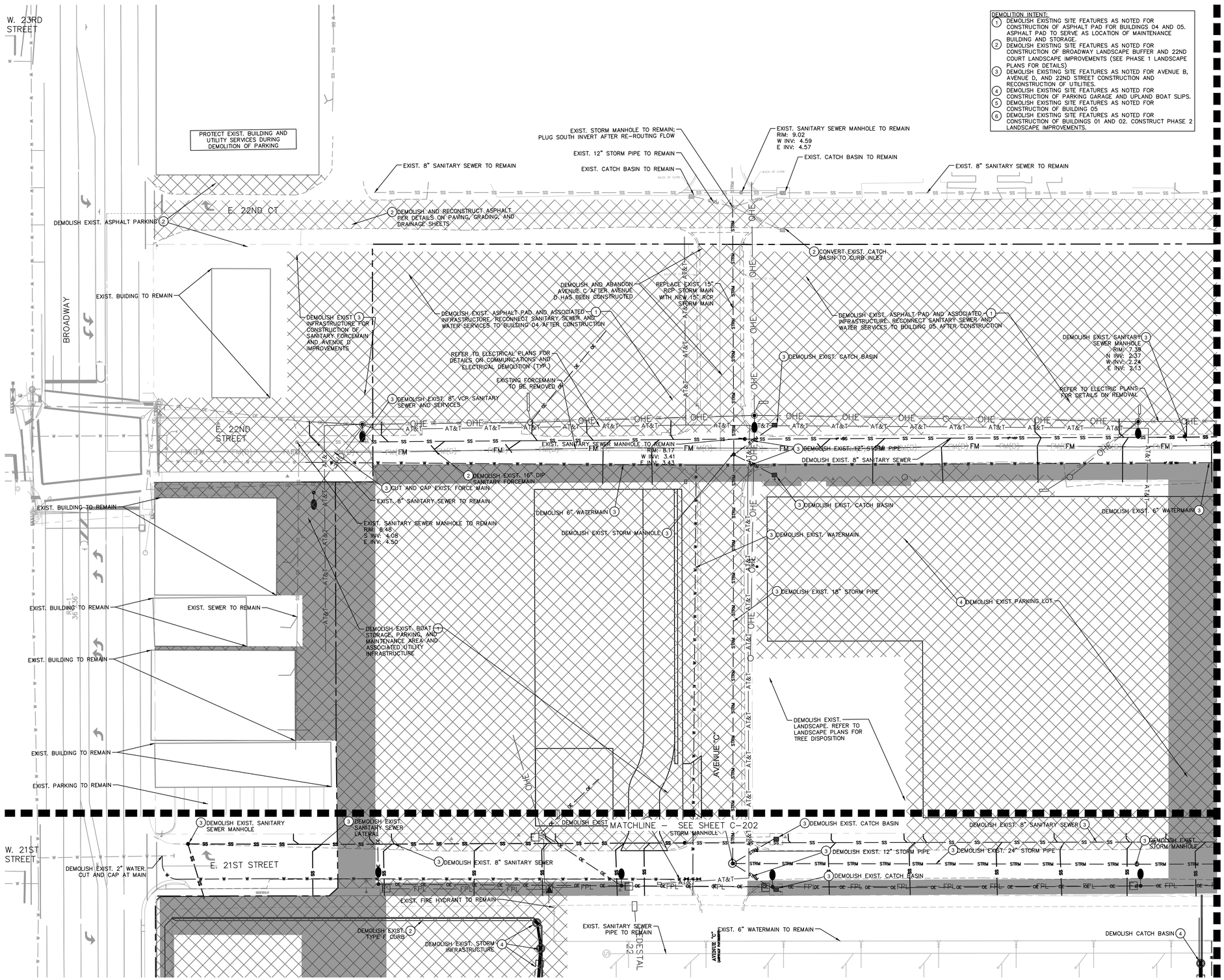
KEY MAP

SAFE HARBOR RIVIERA BEACH

PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
C-110

Plotted By:Erika, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-200 DEMOLITION PLAN May 08, 2023 06:40:39pm K:\bcd_civil\145994004 — safe harbor riviera beach\CADD\plansheets\C-200 DEMOLITION PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc



DEMOLITION INTENT:

1. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR CONSTRUCTION OF ASPHALT PAD FOR BUILDINGS 04 AND 05. ASPHALT PAD TO SERVE AS LOCATION OF MAINTENANCE BUILDING AND STORAGE.
2. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR CONSTRUCTION OF BROADWAY LANDSCAPE BUFFER AND 22ND COURT LANDSCAPE IMPROVEMENTS (SEE PHASE 1 LANDSCAPE PLANS FOR DETAILS)
3. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR AVENUE B, AVENUE D, AND 22ND STREET CONSTRUCTION AND RECONSTRUCTION OF UTILITIES.
4. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR CONSTRUCTION OF PARKING GARAGE AND UPLAND BOAT SLIPS.
5. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR CONSTRUCTION OF BUILDING 05
6. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR CONSTRUCTION OF BUILDINGS 01 AND 02. CONSTRUCT PHASE 2 LANDSCAPE IMPROVEMENTS.

GRAPHIC SCALE IN FEET
0 15 30 60

NORTH

LEGEND

- PROPERTY LINE
- SS — EXISTING SANITARY LINE
- UE — EXISTING UNDERGROUND ELECTRICAL
- W — EXISTING WATER
- STRM — EXISTING STORM
- G — EXISTING GAS
- T — EXISTING TELEPHONE
- OHL — EXISTING OVERHEAD ELECTRIC
- EXISTING LANDSCAPE
- SS — EXISTING SEWER TO BE DEMOLISHED
- W — EXISTING WATER TO BE DEMOLISHED
- STRM — EXISTING STORM TO BE DEMOLISHED
- UE — EXISTING UNDERGROUND ELECTRICAL TO BE DEMOLISHED
- G — EXISTING GAS TO BE DEMOLISHED
- T — EXISTING TELEPHONE TO BE DEMOLISHED
- OHL — EXISTING OVERHEAD ELECTRIC TO BE DEMOLISHED
- EXISTING LANDSCAPE TO BE REMOVED (SEE LANDSCAPE PLANS FOR DETAILS)
- MILL AND RESURFACE
- REMOVE EXISTING ASPHALT
- PROPOSED PERVIOUS CONCRETE
- 30.00 — EXISTING ELEVATION

DEMOLITION NOTES

1. ANY ITEMS TO REMAIN THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED TO THE EXISTING CONDITION OR BETTER AT THE CONTRACTOR'S EXPENSE.
2. REFER TO LANDSCAPE PLANS FOR TREE REMOVAL, RELOCATION, AND PROTECTION INFORMATION. ANY AREAS FOR LANDSCAPING SHALL HAVE ALL BASE AND SUBGRADE MATERIAL REMOVED TO A DEPTH OF 3 FEET.
3. ALL VALVE BOXES, MANHOLES, CATCH BASINS, AND OTHER ITEMS TO REMAIN SHALL BE ADJUSTED TO PROPOSED GRADE.
4. THE INTENT OF THE DEMOLITION PLAN IS TO DEPICT EXISTING FEATURES THAT ENCUMBER THE PROPOSED CONSTRUCTION AREA AND ARE SCHEDULED FOR REMOVAL. SOME INCIDENTAL ITEMS MAY HAVE BEEN INADVERTENTLY OMITTED FROM THE PLAN. THE CONTRACTOR IS ENCOURAGED TO THOROUGHLY INSPECT THE SITE AS WELL AS REVIEW THE PLANS AND SPECIFICATIONS PRIOR TO SUBMITTING PRICING. CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR INCIDENTAL ITEMS NOT SHOWN ON THIS DEMOLITION PLAN.
5. THIS DEMOLITION PLAN IS BASED ON AVAILABLE UTILITY INFORMATION AND MAY OR MAY NOT BE ALL INCLUSIVE FOR THIS SITE. ANY UTILITIES ENCOUNTERED DURING DEMOLITION THAT ARE NOT DEPICTED/ADDRESSED ON THIS DRAWING SHOULD BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER IMMEDIATELY.
6. CONTRACTOR IS REQUIRED TO OBTAIN ALL DEMOLITION AND DEWATERING PERMITS, IF APPLICABLE.
7. ALL FEATURES IDENTIFIED ON THIS PLAN WHICH ARE LISTED TO BE DEMOLISHED ARE TO BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER.
8. CONTRACTOR SHALL LIMIT ALL DEMOLITION ACTIVITIES TO THOSE AREAS DELINEATED ON THE CONSTRUCTION DRAWINGS UNLESS OTHERWISE DIRECTED BY THE DEVELOPER OR AS REQUIRED FOR CONSTRUCTION OF IMPROVEMENTS.
9. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING AIRBORNE DUST AND POLLUTANTS BY USING WATER SPRINKLING OR OTHER SUITABLE MEANS OF CONTROL.
10. CONTRACTOR TO USE CARE IN HANDLING DEBRIS FROM SITE TO ENSURE THE SAFETY OF THE PUBLIC. HAUL ROUTE TO BE CLOSELY MONITORED FOR DEBRIS OR MATERIALS TRACKED ONTO ADJOINING ROADWAYS, SIDEWALKS, ETC. ROADWAYS AND WALKWAYS TO BE CLEARED DAILY OR AS NECESSARY TO MAINTAIN PUBLIC SAFETY.
11. ALL ASPHALT TO BE REMOVED SHALL BE SAW CUT ADJACENT TO REMAINING IMPROVEMENTS.
12. WHERE REMAINING, INLETS, MANHOLE COVERS, AND VALVE COVERS TO BE PROTECTED IN PAVEMENT REMOVAL AREAS. CONTRACTOR SHALL REPLACE DAMAGED STRUCTURES AT THEIR EXPENSE.
13. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC. AS APPROVED BY THE CITY OF RIVIERA BEACH AND CONSTRUCTION MANAGER.
14. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF EXISTING FACILITIES AND CONSTRUCTION OF NEW FACILITIES. SIGNAGE SHALL BE POSTED TO DIRECT THE PUBLIC TO THE PATH OF TRAVEL.
15. REFER TO THE TOPOGRAPHIC SURVEY FOR ADDITIONAL DETAILS OF EXISTING STRUCTURES, ETC., LOCATED WITHIN THE PROJECT SITE. UNLESS OTHERWISE NOTED, ALL EXISTING BUILDINGS, STRUCTURES, SLABS, CONCRETE, ASPHALT, DEBRIS PILES, SIGNS, AND ALL APPURTENANCES ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR AND PROPERLY DISPOSED OF IN A LEGAL MANNER AS PART OF THIS CONTRACT. SOME ITEMS TO BE REMOVED MAY NOT BE DEPICTED ON THE TOPOGRAPHIC SURVEY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE FULL EXTENT OF ITEMS TO BE REMOVED. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE OWNER PRIOR TO REMOVAL OF SAID ITEMS.
16. CONTRACTOR SHALL COORDINATE THE LIMITS OF UTILITY DEMOLITION WITH PROPOSED PLANS.

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
MICHAEL D. SPRUCE, P.E.
FL LICENSE NUMBER 52776
DATE: ———

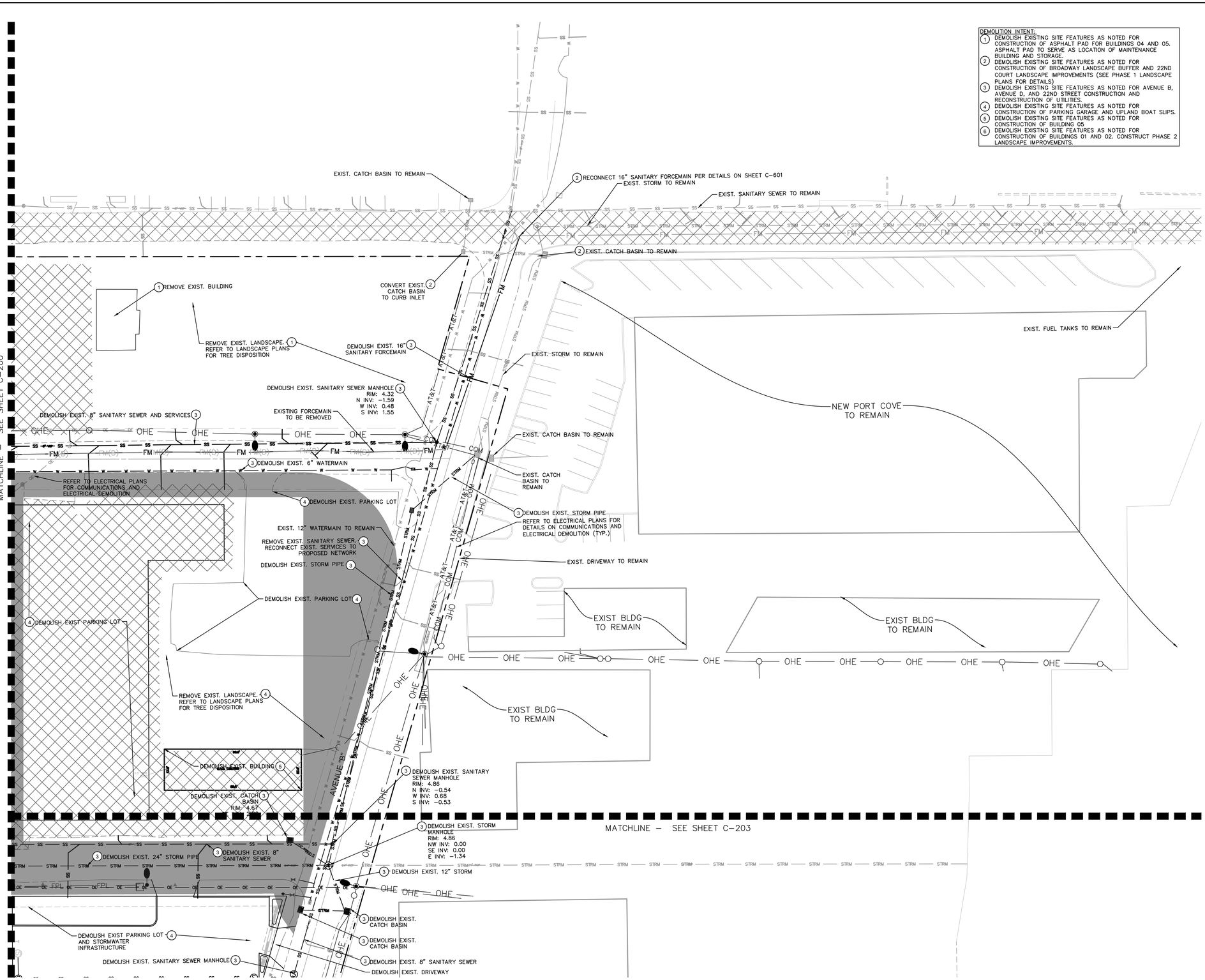
KHA PROJECT 145994004
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

DEMOLITION PLAN

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS FL
RIVIERA BEACH

SHEET NUMBER
C-200

Plotted By:Effie, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-201 DEMOLITION PLAN May 08, 2023 08:40:47pm K:\bcd_civil\145994004 - safe harbor riviera beach\CAD\Plansheets\C-200 DEMOLITION PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



DEMOLITION INTENT:

1. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR CONSTRUCTION OF ASPHALT PAD FOR BUILDINGS 04 AND 05. ASPHALT PAD TO SERVE AS LOCATION OF MAINTENANCE BUILDING AND STORAGE.
2. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR CONSTRUCTION OF BROADWAY LANDSCAPE BUFFER AND 22ND COURT LANDSCAPE IMPROVEMENTS (SEE PHASE 1 LANDSCAPE PLANS FOR DETAILS)
3. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR AVENUE B, AVENUE D, AND 22ND STREET CONSTRUCTION AND RECONSTRUCTION OF UTILITIES.
4. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR CONSTRUCTION OF PARKING GARAGE AND UPLAND BOAT SLIPS.
5. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR CONSTRUCTION OF BUILDING 05
6. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR CONSTRUCTION OF BUILDINGS 01 AND 02. CONSTRUCT PHASE 2 LANDSCAPE IMPROVEMENTS.

GRAPHIC SCALE IN FEET
0 15 30 60

NORTH

LEGEND

- PROPERTY LINE
- SS — EXISTING SANITARY LINE
- UE — EXISTING UNDERGROUND ELECTRICAL
- W — EXISTING WATER
- STRM — EXISTING STORM
- G — EXISTING GAS
- T — EXISTING TELEPHONE
- OHL — EXISTING OVERHEAD ELECTRIC
- EXISTING LANDSCAPE
- SS — EXISTING SEWER TO BE DEMOLISHED
- W — EXISTING WATER TO BE DEMOLISHED
- STRM — EXISTING STORM TO BE DEMOLISHED
- UE — EXISTING UNDERGROUND ELECTRICAL TO BE DEMOLISHED
- G — EXISTING GAS TO BE DEMOLISHED
- T — EXISTING TELEPHONE TO BE DEMOLISHED
- OHL — EXISTING OVERHEAD ELECTRIC TO BE DEMOLISHED
- EXISTING LANDSCAPE TO BE REMOVED (SEE LANDSCAPE PLANS FOR DETAILS)
- MILL AND RESURFACE
- REMOVE EXISTING ASPHALT
- PROPOSED PERVIOUS CONCRETE
- 30.00 + EXISTING ELEVATION

DEMOLITION NOTES

1. ANY ITEMS TO REMAIN THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED TO THE EXISTING CONDITION OR BETTER AT THE CONTRACTOR'S EXPENSE.
2. REFER TO LANDSCAPE PLANS FOR TREE REMOVAL, RELOCATION, AND PROTECTION INFORMATION. ANY AREAS FOR LANDSCAPING SHALL HAVE ALL BASE AND SUBGRADE MATERIAL REMOVED TO A DEPTH OF 3 FEET.
3. ALL VALVE BOXES, MANHOLES, CATCH BASINS, AND OTHER ITEMS TO REMAIN SHALL BE ADJUSTED TO PROPOSED GRADE.
4. THE INTENT OF THE DEMOLITION PLAN IS TO DEPICT EXISTING FEATURES THAT ENCUMBER THE PROPOSED CONSTRUCTION AREA AND ARE SCHEDULED FOR REMOVAL. SOME INCIDENTAL ITEMS MAY HAVE BEEN INADVERTENTLY OMITTED FROM THE PLAN. THE CONTRACTOR IS ENCOURAGED TO THOROUGHLY INSPECT THE SITE AS WELL AS REVIEW THE PLANS AND SPECIFICATIONS PRIOR TO SUBMITTING PRICING. CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR INCIDENTAL ITEMS NOT SHOWN ON THIS DEMOLITION PLAN.
5. THIS DEMOLITION PLAN IS BASED ON AVAILABLE UTILITY INFORMATION AND MAY OR MAY NOT BE ALL INCLUSIVE FOR THIS SITE. ANY UTILITIES ENCOUNTERED DURING DEMOLITION THAT ARE NOT DEPICTED/ADDRESSED ON THIS DRAWING SHOULD BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER IMMEDIATELY.
6. CONTRACTOR IS REQUIRED TO OBTAIN ALL DEMOLITION AND DEWATERING PERMITS, IF APPLICABLE.
7. ALL FEATURES IDENTIFIED ON THIS PLAN WHICH ARE LISTED TO BE DEMOLISHED ARE TO BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER.
8. CONTRACTOR SHALL LIMIT ALL DEMOLITION ACTIVITIES TO THOSE AREAS DELINEATED ON THE CONSTRUCTION DRAWINGS UNLESS OTHERWISE DIRECTED BY THE DEVELOPER OR AS REQUIRED FOR CONSTRUCTION OF IMPROVEMENTS.
9. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING AIRBORNE DUST AND POLLUTANTS BY USING WATER SPRINKLING OR OTHER SUITABLE MEANS OF CONTROL.
10. CONTRACTOR TO USE CARE IN HANDLING DEBRIS FROM SITE TO ENSURE THE SAFETY OF THE PUBLIC. HAUL ROUTE TO BE CLOSELY MONITORED FOR DEBRIS OR MATERIALS TRACKED ONTO ADJOINING ROADWAYS, SIDEWALKS, ETC. ROADWAYS AND WALKWAYS TO BE CLEARED DAILY OR AS NECESSARY TO MAINTAIN PUBLIC SAFETY.
11. ALL ASPHALT TO BE REMOVED SHALL BE SAW CUT ADJACENT TO REMAINING IMPROVEMENTS.
12. WHERE REMAINING, INLETS, MANHOLE COVERS, AND VALVE COVERS TO BE PROTECTED IN PAVEMENT REMOVAL AREAS. CONTRACTOR SHALL REPLACE DAMAGED STRUCTURES AT THEIR EXPENSE.
13. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC. AS APPROVED BY THE CITY OF RIVIERA BEACH AND CONSTRUCTION MANAGER.
14. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF EXISTING FACILITIES AND CONSTRUCTION OF NEW FACILITIES. SIGNAGE SHALL BE POSTED TO DIRECT THE PUBLIC TO THE PATH OF TRAVEL.
15. REFER TO THE TOPOGRAPHIC SURVEY FOR ADDITIONAL DETAILS OF EXISTING STRUCTURES, ETC., LOCATED WITHIN THE PROJECT SITE. UNLESS OTHERWISE NOTED, ALL EXISTING BUILDINGS, STRUCTURES, SLABS, CONCRETE, ASPHALT, DEBRIS PILES, SIGNS, AND ALL APPURTENANCES ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR AND PROPERLY DISPOSED OF IN A LEGAL MANNER AS PART OF THIS CONTRACT. SOME ITEMS TO BE REMOVED MAY NOT BE DEPICTED ON THE TOPOGRAPHIC SURVEY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE FULL EXTENT OF ITEMS TO BE REMOVED. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE OWNER PRIOR TO REMOVAL OF SAID ITEMS.
16. CONTRACTOR SHALL COORDINATE THE LIMITS OF UTILITY DEMOLITION WITH PROPOSED PLANS.

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

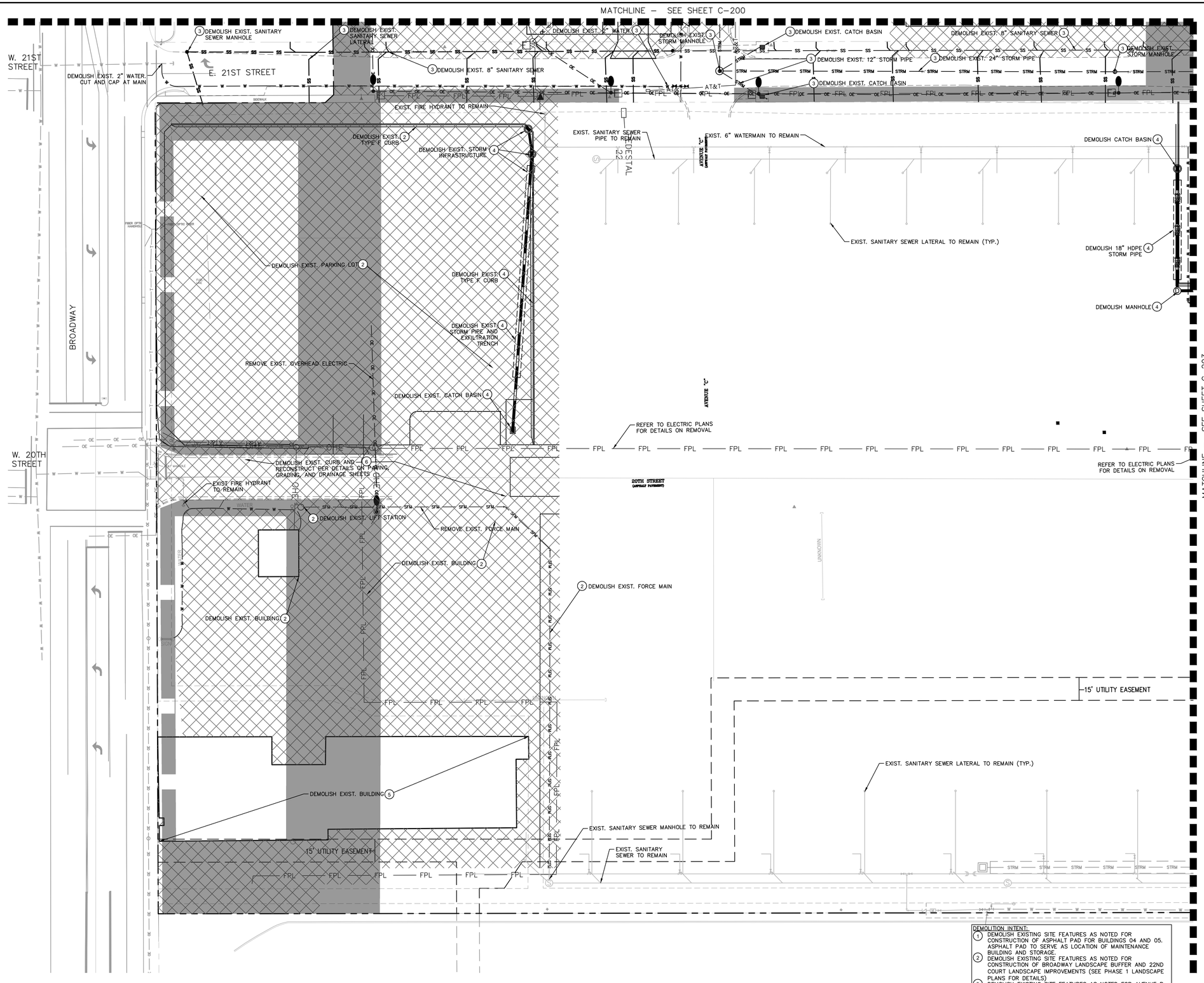
LICENSED PROFESSIONAL
MICHAEL D. SPRUCE, P.E.
FL LICENSE NUMBER 52776
DATE:

KHA PROJECT 145994004	DESIGNED BY JPL
DATE MAY 2023	DRAWN BY AMS
SCALE AS SHOWN	CHECKED BY MDS

DEMOLITION PLAN

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
C-201



GRAPHIC SCALE IN FEET
0 15 30 60

NORTH

LEGEND

- PROPERTY LINE
- SS — EXISTING SANITARY LINE
- UE — EXISTING UNDERGROUND ELECTRICAL
- W — EXISTING WATER
- STRM — EXISTING STORM
- G — EXISTING GAS
- T — EXISTING TELEPHONE
- OHL — EXISTING OVERHEAD ELECTRIC
- EXISTING LANDSCAPE
- SS — SS — EXISTING SEWER TO BE DEMOLISHED
- W — W — EXISTING WATER TO BE DEMOLISHED
- STRM — EXISTING STORM TO BE DEMOLISHED
- UE — UE — EXISTING UNDERGROUND ELECTRICAL TO BE DEMOLISHED
- G — G — EXISTING GAS TO BE DEMOLISHED
- T — T — EXISTING TELEPHONE TO BE DEMOLISHED
- OHL — OHL — EXISTING OVERHEAD ELECTRIC TO BE DEMOLISHED
- EXISTING LANDSCAPE TO BE REMOVED (SEE LANDSCAPE PLANS FOR DETAILS)
- MILL AND RESURFACE
- REMOVE EXISTING ASPHALT
- PROPOSED PERVIOUS CONCRETE
- 30.00+ EXISTING ELEVATION

DEMOLITION NOTES

1. ANY ITEMS TO REMAIN THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED TO THE EXISTING CONDITION OR BETTER AT THE CONTRACTOR'S EXPENSE.
2. REFER TO LANDSCAPE PLANS FOR TREE REMOVAL, RELOCATION, AND PROTECTION INFORMATION. ANY AREAS FOR LANDSCAPING SHALL HAVE ALL BASE AND SUBGRADE MATERIAL REMOVED TO A DEPTH OF 3 FEET.
3. ALL VALVE BOXES, MANHOLES, CATCH BASINS, AND OTHER ITEMS TO REMAIN SHALL BE ADJUSTED TO PROPOSED GRADE.
4. THE INTENT OF THE DEMOLITION PLAN IS TO DEPICT EXISTING FEATURES THAT ENCUMBER THE PROPOSED CONSTRUCTION AREA AND ARE SCHEDULED FOR REMOVAL. SOME INCIDENTAL ITEMS MAY HAVE BEEN INADVERTENTLY OMITTED FROM THE PLAN. THE CONTRACTOR IS ENCOURAGED TO THOROUGHLY INSPECT THE SITE AS WELL AS REVIEW THE PLANS AND SPECIFICATIONS PRIOR TO SUBMITTING PRICING. CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR INCIDENTAL ITEMS NOT SHOWN ON THIS DEMOLITION PLAN.
5. THIS DEMOLITION PLAN IS BASED ON AVAILABLE UTILITY INFORMATION AND MAY OR MAY NOT BE ALL INCLUSIVE FOR THIS SITE. ANY UTILITIES ENCOUNTERED DURING DEMOLITION THAT ARE NOT DEPICTED/ADDRESSED ON THIS DRAWING SHOULD BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER IMMEDIATELY.
6. CONTRACTOR IS REQUIRED TO OBTAIN ALL DEMOLITION AND DEWATERING PERMITS, IF APPLICABLE.
7. ALL FEATURES IDENTIFIED ON THIS PLAN WHICH ARE LISTED TO BE DEMOLISHED ARE TO BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER.
8. CONTRACTOR SHALL LIMIT ALL DEMOLITION ACTIVITIES TO THOSE AREAS DELINEATED ON THE CONSTRUCTION DRAWINGS UNLESS OTHERWISE DIRECTED BY THE DEVELOPER OR AS REQUIRED FOR CONSTRUCTION OF IMPROVEMENTS.
9. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING AIRBORNE DUST AND POLLUTANTS BY USING WATER SPRINKLING OR OTHER SUITABLE MEANS OF CONTROL.
10. CONTRACTOR TO USE CARE IN HANDLING DEBRIS FROM SITE TO ENSURE THE SAFETY OF THE PUBLIC. HAUL ROUTE TO BE CLOSELY MONITORED FOR DEBRIS OR MATERIALS TRACKED ONTO ADJOINING ROADWAYS, SIDEWALKS, ETC. ROADWAYS AND WALKWAYS TO BE CLEARED DAILY OR AS NECESSARY TO MAINTAIN PUBLIC SAFETY.
11. ALL ASPHALT TO BE REMOVED SHALL BE SAW CUT ADJACENT TO REMAINING IMPROVEMENTS.
12. WHERE REMAINING, INLETS, MANHOLE COVERS, AND VALVE COVERS TO BE PROTECTED IN PAVEMENT REMOVAL AREAS. CONTRACTOR SHALL REPLACE DAMAGED STRUCTURES AT THEIR EXPENSE.
13. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC. AS APPROVED BY THE CITY OF RIVIERA BEACH AND CONSTRUCTION MANAGER.
14. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF EXISTING FACILITIES AND CONSTRUCTION OF NEW FACILITIES. SIGNAGE SHALL BE POSTED TO DIRECT THE PUBLIC TO THE PATH OF TRAVEL.
15. REFER TO THE TOPOGRAPHIC SURVEY FOR ADDITIONAL DETAILS OF EXISTING STRUCTURES, ETC., LOCATED WITHIN THE PROJECT SITE. UNLESS OTHERWISE NOTED, ALL EXISTING BUILDINGS, STRUCTURES, SLABS, CONCRETE, ASPHALT, DEBRIS PILES, SIGNS, AND ALL APPURTENANCES ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR AND PROPERLY DISPOSED OF IN A LEGAL MANNER AS PART OF THIS CONTRACT. SOME ITEMS TO BE REMOVED MAY NOT BE DEPICTED ON THE TOPOGRAPHIC SURVEY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE FULL EXTENT OF ITEMS TO BE REMOVED. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE OWNER PRIOR TO REMOVAL OF SAID ITEMS.
16. CONTRACTOR SHALL COORDINATE THE LIMITS OF UTILITY DEMOLITION WITH PROPOSED PLANS.

DEMOLITION INTENT:
1. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR CONSTRUCTION OF ASPHALT PAD FOR BUILDINGS 04 AND 05. ASPHALT PAD TO SERVE AS LOCATION OF MAINTENANCE BUILDING AND STORAGE.
2. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR CONSTRUCTION OF BROADWAY LANDSCAPE BUFFER AND 22ND COURT LANDSCAPE IMPROVEMENTS (SEE PHASE 1 LANDSCAPE PLANS FOR DETAILS)
3. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR AVENUE B, AVENUE D, AND 22ND STREET CONSTRUCTION AND RECONSTRUCTION OF UTILITIES.
4. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR CONSTRUCTION OF PARKING GARAGE AND UPLAND BOAT SLIPS.
5. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR CONSTRUCTION OF BUILDING 05
6. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR CONSTRUCTION OF BUILDINGS 01 AND 02. CONSTRUCT PHASE 2 LANDSCAPE IMPROVEMENTS.

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
MICHAEL D. SPRUCE, P.E.
FL LICENSE NUMBER 52776
DATE:

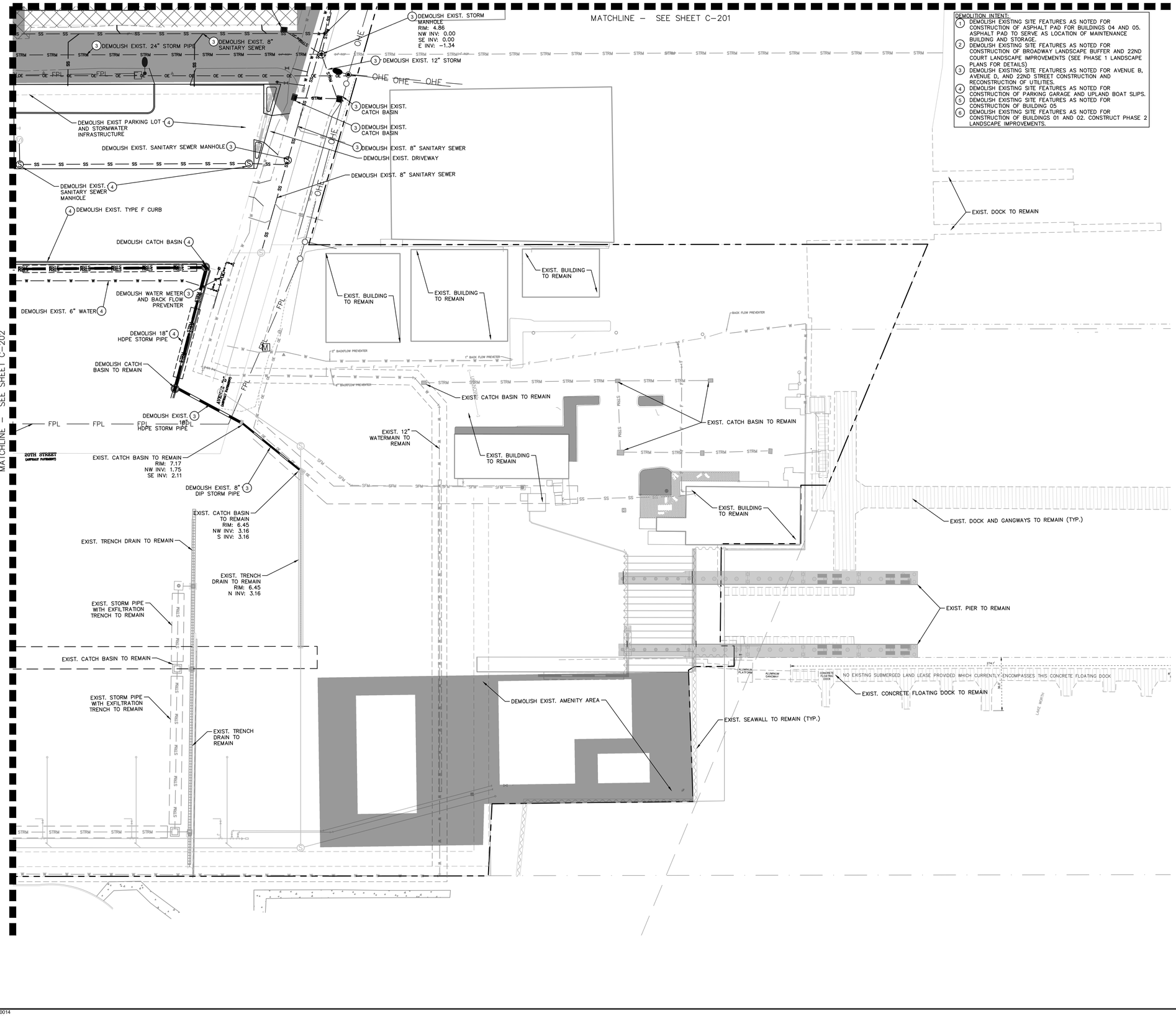
KHA PROJECT 145994004	DESIGNED BY JPL
DATE MAY 2023	DRAWN BY AMS
SCALE AS SHOWN	CHECKED BY MDS

DEMOLITION PLAN

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS FL
RIVIERA BEACH

SHEET NUMBER
C-202

Plotted By:Erfle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-202 DEMOLITION PLAN May 08, 2023 05:40:54pm K:\bcd_civil\145994004 - safe harbor riviera beach\CAD\plansheets\C-200 DEMOLITION PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



GRAPHIC SCALE IN FEET
0 15 30 60

NORTH

DEMOLITION INTENT:

1. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR CONSTRUCTION OF ASPHALT PAD FOR BUILDINGS 04 AND 05. ASPHALT PAD TO SERVE AS LOCATION OF MAINTENANCE BUILDING AND STORAGE.
2. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR CONSTRUCTION OF BROADWAY LANDSCAPE BUFFER AND 22ND COURT LANDSCAPE IMPROVEMENTS (SEE PHASE 1 LANDSCAPE PLANS FOR DETAILS)
3. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR AVENUE B, AVENUE D, AND 22ND STREET CONSTRUCTION AND RECONSTRUCTION OF UTILITIES.
4. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR CONSTRUCTION OF PARKING GARAGE AND UPLAND BOAT SLIPS.
5. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR CONSTRUCTION OF BUILDING 05
6. DEMOLISH EXISTING SITE FEATURES AS NOTED FOR CONSTRUCTION OF BUILDINGS 01 AND 02. CONSTRUCT PHASE 2 LANDSCAPE IMPROVEMENTS.

LEGEND

- PROPERTY LINE
- SS — EXISTING SANITARY LINE
- UE — EXISTING UNDERGROUND ELECTRICAL
- W — EXISTING WATER
- STRM — EXISTING STORM
- G — EXISTING GAS
- T — EXISTING TELEPHONE
- OHL — EXISTING OVERHEAD ELECTRIC
- EXISTING LANDSCAPE
- SS — SS — EXISTING SEWER TO BE DEMOLISHED
- W — W — EXISTING WATER TO BE DEMOLISHED
- STRM — EXISTING STORM TO BE DEMOLISHED
- UE — UE — EXISTING UNDERGROUND ELECTRICAL TO BE DEMOLISHED
- G — G — EXISTING GAS TO BE DEMOLISHED
- T — T — EXISTING TELEPHONE TO BE DEMOLISHED
- OHL — OHL — EXISTING OVERHEAD ELECTRIC TO BE DEMOLISHED
- EXISTING LANDSCAPE TO BE REMOVED (SEE LANDSCAPE PLANS FOR DETAILS)
- MILL AND RESURFACE
- REMOVE EXISTING ASPHALT
- PROPOSED PERVIOUS CONCRETE
- 30.00 + EXISTING ELEVATION

DEMOLITION NOTES

1. ANY ITEMS TO REMAIN THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED TO THE EXISTING CONDITION OR BETTER AT THE CONTRACTOR'S EXPENSE.
2. REFER TO LANDSCAPE PLANS FOR TREE REMOVAL, RELOCATION, AND PROTECTION INFORMATION. ANY AREAS FOR LANDSCAPING SHALL HAVE ALL BASE AND SUBGRADE MATERIAL REMOVED TO A DEPTH OF 3 FEET.
3. ALL VALVE BOXES, MANHOLES, CATCH BASINS, AND OTHER ITEMS TO REMAIN SHALL BE ADJUSTED TO PROPOSED GRADE.
4. THE INTENT OF THE DEMOLITION PLAN IS TO DEPICT EXISTING FEATURES THAT ENCUMBER THE PROPOSED CONSTRUCTION AREA AND ARE SCHEDULED FOR REMOVAL. SOME INCIDENTAL ITEMS MAY HAVE BEEN INADVERTENTLY OMITTED FROM THE PLAN. THE CONTRACTOR IS ENCOURAGED TO THOROUGHLY INSPECT THE SITE AS WELL AS REVIEW THE PLANS AND SPECIFICATIONS PRIOR TO SUBMITTING PRICING. CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR INCIDENTAL ITEMS NOT SHOWN ON THIS DEMOLITION PLAN.
5. THIS DEMOLITION PLAN IS BASED ON AVAILABLE UTILITY INFORMATION AND MAY OR MAY NOT BE ALL INCLUSIVE FOR THIS SITE. ANY UTILITIES ENCOUNTERED DURING DEMOLITION THAT ARE NOT DEPICTED/ADDRESSED ON THIS DRAWING SHOULD BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER IMMEDIATELY.
6. CONTRACTOR IS REQUIRED TO OBTAIN ALL DEMOLITION AND DEWATERING PERMITS, IF APPLICABLE.
7. ALL FEATURES IDENTIFIED ON THIS PLAN WHICH ARE LISTED TO BE DEMOLISHED ARE TO BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER.
8. CONTRACTOR SHALL LIMIT ALL DEMOLITION ACTIVITIES TO THOSE AREAS DELINEATED ON THE CONSTRUCTION DRAWINGS UNLESS OTHERWISE DIRECTED BY THE DEVELOPER OR AS REQUIRED FOR CONSTRUCTION OF IMPROVEMENTS.
9. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING AIRBORNE DUST AND POLLUTANTS BY USING WATER SPRINKLING OR OTHER SUITABLE MEANS OF CONTROL.
10. CONTRACTOR TO USE CARE IN HANDLING DEBRIS FROM SITE TO ENSURE THE SAFETY OF THE PUBLIC. HAUL ROUTE TO BE CLOSELY MONITORED FOR DEBRIS OR MATERIALS TRACKED ONTO ADJOINING ROADWAYS, SIDEWALKS, ETC. ROADWAYS AND WALKWAYS TO BE CLEARED DAILY OR AS NECESSARY TO MAINTAIN PUBLIC SAFETY.
11. ALL ASPHALT TO BE REMOVED SHALL BE SAW CUT ADJACENT TO REMAINING IMPROVEMENTS.
12. WHERE REMAINING, INLETS, MANHOLE COVERS, AND VALVE COVERS TO BE PROTECTED IN PAVEMENT REMOVAL AREAS. CONTRACTOR SHALL REPLACE DAMAGED STRUCTURES AT THEIR EXPENSE.
13. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC. AS APPROVED BY THE CITY OF RIVIERA BEACH AND CONSTRUCTION MANAGER.
14. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF EXISTING FACILITIES AND CONSTRUCTION OF NEW FACILITIES. SIGNAGE SHALL BE POSTED TO DIRECT THE PUBLIC TO THE PATH OF TRAVEL.
15. REFER TO THE TOPOGRAPHIC SURVEY FOR ADDITIONAL DETAILS OF EXISTING STRUCTURES, ETC., LOCATED WITHIN THE PROJECT SITE. UNLESS OTHERWISE NOTED, ALL EXISTING BUILDINGS, STRUCTURES, SLABS, CONCRETE, ASPHALT, DEBRIS PILES, SIGNS, AND ALL APPURTENANCES ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR AND PROPERLY DISPOSED OF IN A LEGAL MANNER AS PART OF THIS CONTRACT. SOME ITEMS TO BE REMOVED MAY NOT BE DEPICTED ON THE TOPOGRAPHIC SURVEY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE FULL EXTENT OF ITEMS TO BE REMOVED. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE OWNER PRIOR TO REMOVAL OF SAID ITEMS.
16. CONTRACTOR SHALL COORDINATE THE LIMITS OF UTILITY DEMOLITION WITH PROPOSED PLANS.

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
MICHAEL D. SPRUCE, P.E.
FL LICENSE NUMBER
52776
DATE: ———

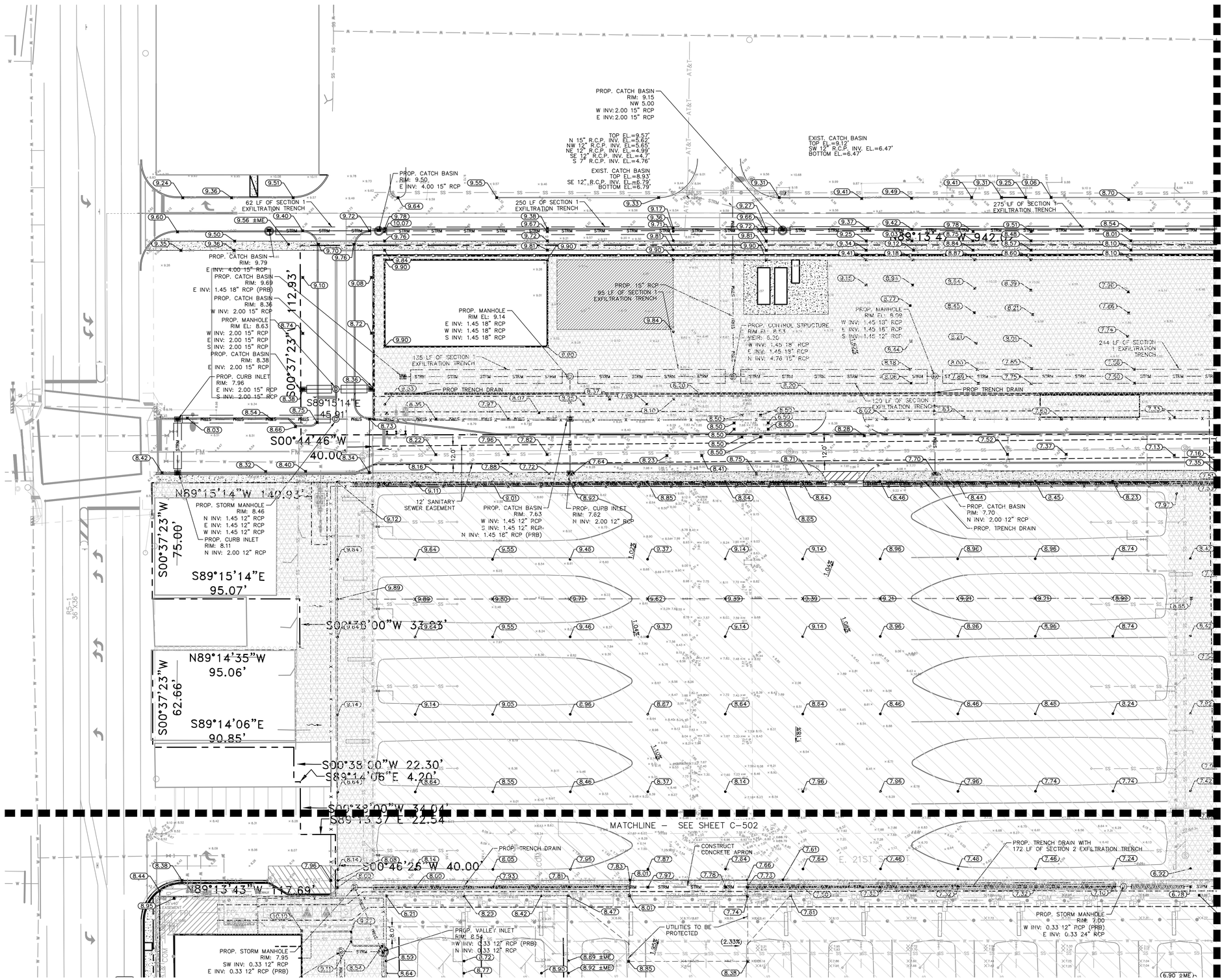
KHA PROJECT 145994004
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

DEMOLITION PLAN

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS FL
RIVIERA BEACH

SHEET NUMBER
C-203

Plotted By:Erika, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-203 DEMOLITION PLAN May 08, 2023 06:41:01pm K:\bca_civil\145994004 — safe harbor riviera beach\CAD\plansheets\C-200 DEMOLITION PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc



LEGEND

- PROPOSED PERVIOUS CONCRETE
- PROPOSED IMPERVOUS CONCRETE
- PROPERTY LINE
- CENTERLINE OF R/W
- UTILITY CROSSING
- STRM — PROPOSED STORM PIPE
- PROPOSED STORM AREA INLET
- PROPOSED STORM CURB INLET
- PROPOSED STORM MANHOLE
- STRM — EXISTING STORM PIPE
- EXISTING STORM AREA INLET
- EXISTING STORM CURB INLET
- EXISTING STORM MANHOLE
- SS — SS — SANITARY FORCE MAIN PIPE
- SS — SS — SANITARY PIPE
- SANITARY MANHOLE
- FM — FM — FIRE LINE PIPE
- W — W — WATER PIPE
- FIRE HYDRANT
- FIRE DEPARTMENT CONNECTION
- W — W — RECLAIMED WATER PIPE
- IRRIGATION MAIN PIPE
- FO — FO — FIBER OPTIC LINE
- OHL — OHL — OVERHEAD LINE
- T — T — TELEPHONE LINE
- COM — COMMUNICATIONS LINE
- UE — UE — UNDERGROUND ELECTRIC LINE
- FPL — FPL — FPL LINE
- E — ELECTRICAL LINE
- G — G — GAS LINE
- EXISTING UTILITY EASEMENTS
- PROPOSED UTILITY EASEMENTS
- 11.82 — PROPOSED SPOT ELEVATION
- 11.82 ±ME — MATCH EXISTING ELEVATION
- EXISTING ELEVATION
- FLOW ARROW

PAVING, GRADING AND DRAINAGE NOTES

1. ALL ELEVATIONS ON THE PLANS OR REFERENCED IN THE SPECIFICATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (N.A.V.D. 1988).
2. THE CROSS SLOPE ON ADA ACCESSIBLE ROUTES SHALL NOT EXCEED 2.0%. THE LONGITUDINAL SLOPE ON ADA ACCESSIBLE ROUTES (NOT INCLUDING RAMPS) SHALL NOT EXCEED 5.0%. THE LONGITUDINAL SLOPE FOR RAMPS SHALL NOT EXCEED 1V:12H (8.3%). ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 2.0% IN ANY DIRECTION (INCLUDING DIAGONAL).
3. ALL CATCH BASINS AND DRAINAGE COLLECTION STRUCTURES SHALL BE DESIGNED WITH AN EIGHTEEN INCH (18") VERTICAL SUMP FROM THE INVERT ELEVATION (OR BOTTOM OF BAFFLE) TO THE BOTTOM OF THE STRUCTURE.
4. DRAINAGE STRUCTURES SHALL BE CONSTRUCTED USING U.S. PRECAST (USP) U.S. FOUNDRY (USF) OR FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD (FDOT) PRODUCTS AS SPECIFIED OR APPROVED EQUAL. ALL STORM DRAINAGE STRUCTURES MUST COMPLY WITH CITY OF RIVIERA BEACH DETAILS AND REGULATIONS.
4. ROOF DRAIN CONNECTIONS TO DRAINAGE PIPE SHALL BE AS FOLLOWS:
   A. FOR ADS N-12 CORRUGATED POLYETHYLENE DRAINAGE PIPE USE ADS DUAL WALL FABRICATED REDUCING SADDLE TEE 4"-24" DIAMETER
   B. FOR RCP DRAINAGE PIPE MAKE CONNECTION FDOT INDEX 280, CONCRETE COLLAR OR JOINING MAINLINE PIPE AND STUB PIPE DETAIL
   C. NOTIFY CONSULTANT FOR CONNECTION METHOD TO STEEL PIPE.
5. ALL RAMPS SHALL COMPLY WITH FDOT INDEX 522.
6. STORM DRAIN PIPE SHALL BE AS FOLLOWS:
   A. REINFORCED CONCRETE PIPE (RCP) CLASS III PER ASTM C-76 OR HIGH DENSITY POLY-ETHYLENE (HDPE) PIPE FOR 24" OR LESS FOR PIPES AND HP (HIGH PERFORMANCE) STORM PIPE FOR PIPES 30" AND LARGER. ROOF LEADER PIPE MATERIAL SHALL BE PVC SDR-35.
   B. CORRUGATED POLYETHYLENE PIPE PER AASHTO M294 JOINTS SHALL BE WATER TIGHT
   C. ANY STORM PIPE USED MUST BE APPROVED BY LOCAL AUTHORITIES.

CONTRACTOR SHALL SELECT THE MOST ECONOMICAL PRODUCT.

7. CONTRACTOR SHALL CLEAN ALL PROPOSED DRAINAGE STRUCTURES AND PIPES UPON COMPLETION OF CONSTRUCTION.
8. PROPOSED ELEVATIONS OF CURB REPRESENT FACE OF CURB OR EDGE OF PAVEMENT ELEVATIONS UNLESS OTHERWISE NOTED.
9. PROPOSED ELEVATIONS IN ALL PERVIOUS AREAS REPRESENT FINISHED TOP OF SOD/GRASS OR ANY OTHER LANDSCAPING MATERIAL.
10. ALL DRAINAGE STRUCTURES SHALL CONFORM TO THE LATEST FDOT INDEX STANDARDS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
11. MATCH EXISTING GRADES AT TIE-IN LOCATIONS AT PROPERTY LINES.
12. TOP OF LANDSCAPED OR SODDED AREA AGAINST BUILDING SHALL BE MIN 4" BELOW FINISH FLOOR ELEVATON AND AGAINST SIDEWALK SHALL BE MIN. 2" BELOW FINISH GRADE ON THE LOWSIDE. CONTRACTOR SHALL CONFIRM GRADES PRIOR TO INSTALLING LANDSCAPE.

FEMA FLOOD MAP: 12099C0393F
FLOOD ZONE X
100 YEAR FLOOD ELEVATION 6.00 NAVD 1988

PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.52' = (NGVD 1929)

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

Always call 811 two full business days before you dig to have underground utilities located and marked.

Sunshine811.com

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
MICHAEL D. SPRUCE, P.E.
FL LICENSE NUMBER
52776
DATE:

KHA PROJECT
145994004
DATE
MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

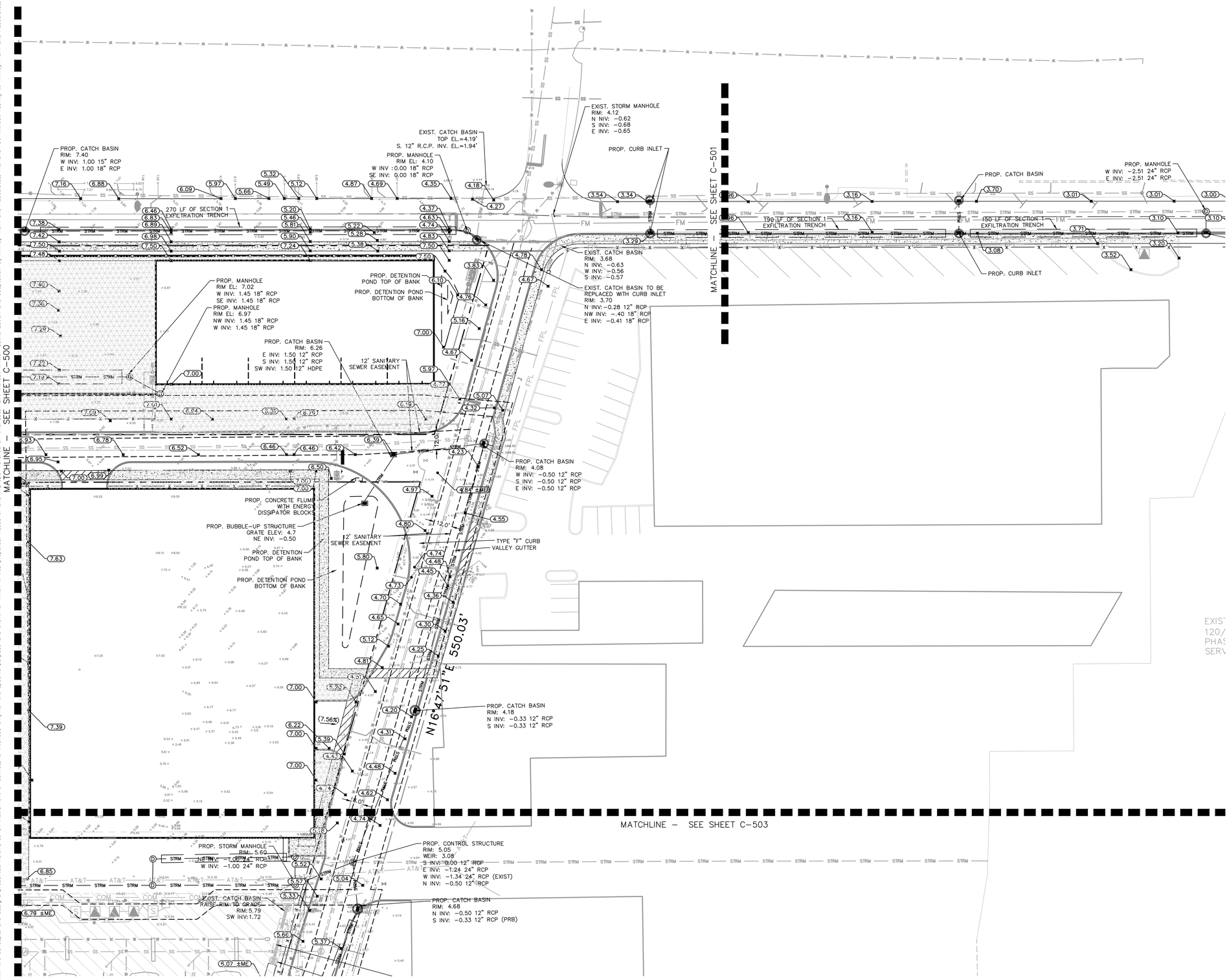
GRADING AND DRAINAGE PLAN

SAFE HARBOR RIVIERA BEACH

PREPARED FOR
SAFE HARBOR MARINAS FL
RIVIERA BEACH

SHEET NUMBER
C-500

Plotted By:Effie, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-500 GRADING AND DRAINAGE PLAN May 08, 2023 08:43:01pm K:\Ved_civil\145994004 — safe harbor riviera beach\CADD\Plansheets\C-500 PAVING, GRADING, AND DRAINAGE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

LEGEND

- PROPOSED PERVIOUS CONCRETE
- PROPOSED IMPERVOUS CONCRETE
- PROPERTY LINE
- CENTERLINE OF R/W
- UTILITY CROSSING
- STRM — PROPOSED STORM PIPE
- PROPOSED STORM AREA INLET
- PROPOSED STORM CURB INLET
- PROPOSED STORM MANHOLE
- STRM — EXISTING STORM PIPE
- EXISTING STORM AREA INLET
- EXISTING STORM CURB INLET
- EXISTING STORM MANHOLE
- SS — SS — SANITARY FORCE MAIN PIPE
- SS — SS — SANITARY PIPE
- SANITARY MANHOLE
- FM — FM — FIRE LINE PIPE
- W — W — WATER PIPE
- FIRE HYDRANT
- FIRE DEPARTMENT CONNECTION
- W — W — RECLAIMED WATER PIPE
- IRRIGATION MAIN PIPE
- FO — FO — FIBER OPTIC LINE
- OHL — OHL — OVERHEAD LINE
- T — T — TELEPHONE LINE
- COM — COMMUNICATIONS LINE
- UE — UE — UNDERGROUND ELECTRIC LINE
- FPL — FPL — FPL LINE
- E — E — ELECTRICAL LINE
- G — G — GAS LINE
- EXISTING UTILITY EASEMENTS
- PROPOSED UTILITY EASEMENTS
- (11.82) PROPOSED SPOT ELEVATION
- (11.82 ±ME) MATCH EXISTING ELEVATION
- EXISTING ELEVATION
- FLOW ARROW

PAVING, GRADING AND DRAINAGE NOTES

1. ALL ELEVATIONS ON THE PLANS OR REFERENCED IN THE SPECIFICATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (N.A.V.D. 1988).
2. THE CROSS SLOPE ON ADA ACCESSIBLE ROUTES SHALL NOT EXCEED 2.0%. THE LONGITUDINAL SLOPE ON ADA ACCESSIBLE ROUTES (NOT INCLUDING RAMPS) SHALL NOT EXCEED 5.0%. THE LONGITUDINAL SLOPE FOR RAMPS SHALL NOT EXCEED 1V:12H (8.3%). ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 2.0% IN ANY DIRECTION (INCLUDING DIAGONAL).
3. ALL CATCH BASINS AND DRAINAGE COLLECTION STRUCTURES SHALL BE DESIGNED WITH AN EIGHTEEN INCH (18") VERTICAL SUMP FROM THE INVERT ELEVATION (OR BOTTOM OF BAFFLE) TO THE BOTTOM OF THE STRUCTURE.
4. DRAINAGE STRUCTURES SHALL BE CONSTRUCTED USING U.S. PRECAST (USP) U.S. FOUNDRY (USF) OR FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD (FDOT) PRODUCTS AS SPECIFIED OR APPROVED EQUAL. ALL STORM DRAINAGE STRUCTURES MUST COMPLY WITH CITY OF RIVIERA BEACH DETAILS AND REGULATIONS.

4. ROOF DRAIN CONNECTIONS TO DRAINAGE PIPE SHALL BE AS FOLLOWS:
   A. FOR ADS N-12 CORRUGATED POLYETHYLENE DRAINAGE PIPE USE ADS DUAL WALL FABRICATED REDUCING SADDLE TEE 4"-24" DIAMETER
   B. FOR RCP DRAINAGE PIPE MAKE CONNECTION FDOT INDEX 280, CONCRETE COLLAR FOR JOINING MAINLINE PIPE AND STUB PIPE DETAIL
   C. NOTIFY CONSULTANT FOR CONNECTION METHOD TO STEEL PIPE.
5. ALL RAMPS SHALL COMPLY WITH FDOT INDEX 522.
6. STORM DRAIN PIPE SHALL BE AS FOLLOWS:
   A. REINFORCED CONCRETE PIPE (RCP) CLASS III PER ASTM C-76 OR HIGH DENSITY POLY-ETHYLENE (HDPE) PIPE FOR 24" OR LESS FOR PIPES AND HP (HIGH PERFORMANCE) STORM PIPE FOR PIPES 30" AND LARGER. ROOF LEADER PIPE MATERIAL SHALL BE PVC SDR-35.
   B. CORRUGATED POLYETHYLENE PIPE PER AASHTO M294 JOINTS SHALL BE WATER TIGHT
   C. ANY STORM PIPE USED MUST BE APPROVED BY LOCAL AUTHORITIES.

CONTRACTOR SHALL SELECT THE MOST ECONOMICAL PRODUCT.

7. CONTRACTOR SHALL CLEAN ALL PROPOSED DRAINAGE STRUCTURES AND PIPES UPON COMPLETION OF CONSTRUCTION.
8. PROPOSED ELEVATIONS OF CURB REPRESENT FACE OF CURB OR EDGE OF PAVEMENT ELEVATIONS UNLESS OTHERWISE NOTED.
9. PROPOSED ELEVATIONS IN ALL PERVIOUS AREAS REPRESENT FINISHED TOP OF SOD/GRASS OR ANY OTHER LANDSCAPING MATERIAL.
10. ALL DRAINAGE STRUCTURES SHALL CONFORM TO THE LATEST FDOT INDEX STANDARDS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
11. MATCH EXISTING GRADES AT TIE-IN LOCATIONS AT PROPERTY LINES.
12. TOP OF LANDSCAPED OR SODDED AREA AGAINST BUILDING SHALL BE MIN 4" BELOW FINISH FLOOR ELEVATON AND AGAINST SIDEWALK SHALL BE MIN. 2" BELOW FINISH GRADE ON THE LOWSIDE. CONTRACTOR SHALL CONFIRM GRADES PRIOR TO INSTALLING LANDSCAPE.

FEMA FLOOD MAP: 12099C0393F
FLOOD ZONE X
100 YEAR FLOOD ELEVATION 6.00 NAVD 1988

PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.52' = (NGVD 1929)

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

Always call 811 two full business days before you dig to have underground utilities located and marked.
Sunshine811.com

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
MICHAEL D. SPRUCE, P.E.
FL LICENSE NUMBER
52776
DATE: ———

KHA PROJECT	
145994004	
DATE	
MAY 2023	
SCALE	AS SHOWN
DESIGNED BY	JPL
DRAWN BY	AMS
CHECKED BY	MDS

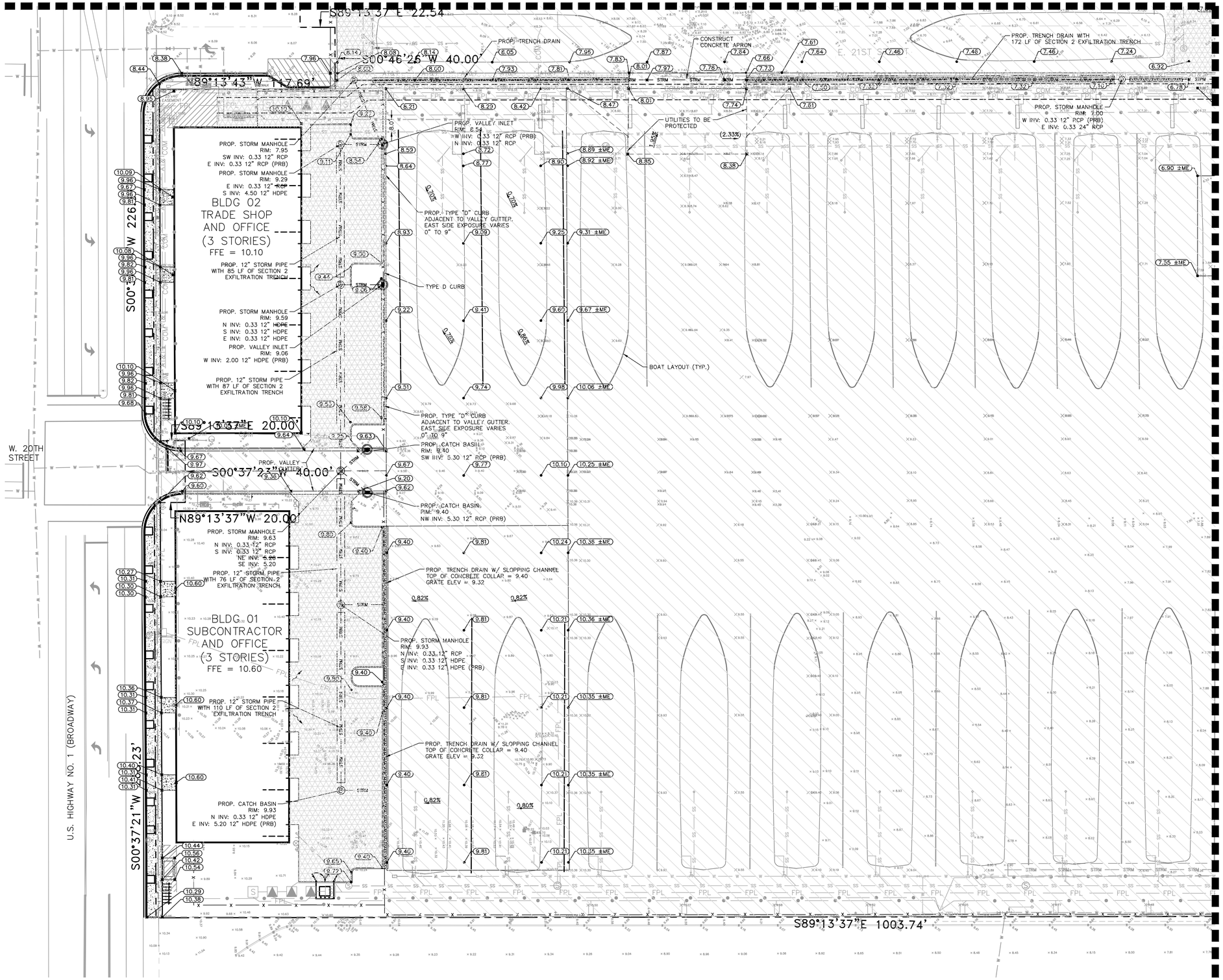
GRADING AND DRAINAGE PLAN

SAFE HARBOR RIVIERA BEACH

PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
C-501

Plotted By:Erik, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-501 GRADING AND DRAINAGE PLAN May 08, 2023 06:43:14pm K:\wpd_civil\145994004 — safe harbor riviera beach\CADD\plansheets\C-600 PAVING, GRADING, AND DRAINAGE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

LEGEND

- PROPOSED PERVIOUS CONCRETE
- PROPOSED IMPERVOUS CONCRETE
- PROPERTY LINE
- CENTERLINE OF R/W
- UTILITY CROSSING
- STRM — PROPOSED STORM PIPE
- PROPOSED STORM AREA INLET
- PROPOSED STORM CURB INLET
- PROPOSED STORM MANHOLE
- STRM — EXISTING STORM PIPE
- EXISTING STORM AREA INLET
- EXISTING STORM CURB INLET
- EXISTING STORM MANHOLE
- SS — SS — SANITARY FORCE MAIN PIPE
- SS — SS — SANITARY PIPE
- SANITARY MANHOLE
- FM — FM — FIRE LINE PIPE
- W — W — WATER PIPE
- FIRE HYDRANT
- FIRE DEPARTMENT CONNECTION
- W — W — RECLAIMED WATER PIPE
- IRRIGATION MAIN PIPE
- FO — FO — FIBER OPTIC LINE
- OHL — OHL — OVERHEAD LINE
- T — T — TELEPHONE LINE
- COM — COMMUNICATIONS LINE
- UE — UE — UNDERGROUND ELECTRIC LINE
- FPL — FPL — FPL LINE
- E — E — ELECTRICAL LINE
- G — G — GAS LINE
- EXISTING UTILITY EASEMENTS
- PROPOSED UTILITY EASEMENTS
- 11.82 — PROPOSED SPOT ELEVATION
- 11.82 ±ME — MATCH EXISTING ELEVATION
- 10.00+ — EXISTING ELEVATION
- FLOW ARROW

PAVING, GRADING AND DRAINAGE NOTES

1. ALL ELEVATIONS ON THE PLANS OR REFERENCED IN THE SPECIFICATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (N.A.V.D. 1988).
2. THE CROSS SLOPE ON ADA ACCESSIBLE ROUTES SHALL NOT EXCEED 2.0%. THE LONGITUDINAL SLOPE ON ADA ACCESSIBLE ROUTES (NOT INCLUDING RAMPS) SHALL NOT EXCEED 5.0%. THE LONGITUDINAL SLOPE FOR RAMPS SHALL NOT EXCEED 1V:12H (8.3%). ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 2.0% IN ANY DIRECTION (INCLUDING DIAGONAL).
3. ALL CATCH BASINS AND DRAINAGE COLLECTION STRUCTURES SHALL BE DESIGNED WITH AN EIGHTEEN INCH (18") VERTICAL SUMP FROM THE INVERT ELEVATION (OR BOTTOM OF BAFFLE) TO THE BOTTOM OF THE STRUCTURE.
4. DRAINAGE STRUCTURES SHALL BE CONSTRUCTED USING U.S. PRECAST (USP) U.S. FOUNDRY (USF) OR FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD (FDOT) PRODUCTS AS SPECIFIED OR APPROVED EQUAL. ALL STORM DRAINAGE STRUCTURES MUST COMPLY WITH CITY OF RIVIERA BEACH DETAILS AND REGULATIONS.
4. ROOF DRAIN CONNECTIONS TO DRAINAGE PIPE SHALL BE AS FOLLOWS:
   A. FOR ADS N-12 CORRUGATED POLYETHYLENE DRAINAGE PIPE USE ADS DUAL WALL FABRICATED REDUCING SADDLE TEE 4"-24" DIAMETER
   B. FOR RCP DRAINAGE PIPE MAKE CONNECTION FDOT INDEX 280, CONCRETE COLLAR FOR JOINING MAINLINE PIPE AND STUB PIPE DETAIL.
   C. NOTIFY CONSULTANT FOR CONNECTION METHOD TO STEEL PIPE.
5. ALL RAMPS SHALL COMPLY WITH FDOT INDEX 522.
6. STORM DRAIN PIPE SHALL BE AS FOLLOWS:
   A. REINFORCED CONCRETE PIPE (RCP) CLASS III PER ASTM C-76 OR HIGH DENSITY POLY-ETHYLENE (HDPE) PIPE FOR 24" OR LESS FOR PIPES AND HP (HIGH PERFORMANCE) STORM PIPE FOR PIPES 30" AND LARGER. ROOF LEADER PIPE MATERIAL SHALL BE PVC SDR-35.
   B. CORRUGATED POLYETHYLENE PIPE PER AASHTO M294 JOINTS SHALL BE WATER TIGHT
   C. ANY STORM PIPE USED MUST BE APPROVED BY LOCAL AUTHORITIES.

CONTRACTOR SHALL SELECT THE MOST ECONOMICAL PRODUCT.

7. CONTRACTOR SHALL CLEAN ALL PROPOSED DRAINAGE STRUCTURES AND PIPES UPON COMPLETION OF CONSTRUCTION.
8. PROPOSED ELEVATIONS OF CURB REPRESENT FACE OF CURB OR EDGE OF PAVEMENT ELEVATIONS UNLESS OTHERWISE NOTED.
9. PROPOSED ELEVATIONS IN ALL PERVIOUS AREAS REPRESENT FINISHED TOP OF SOD/GRASS OR ANY OTHER LANDSCAPING MATERIAL.
10. ALL DRAINAGE STRUCTURES SHALL CONFORM TO THE LATEST FDOT INDEX STANDARDS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
11. MATCH EXISTING GRADES AT TIE-IN LOCATIONS AT PROPERTY LINES.
12. TOP OF LANDSCAPED OR SODDED AREA AGAINST BUILDING SHALL BE MIN 4" BELOW FINISH FLOOR ELEVATON AND AGAINST SIDEWALK SHALL BE MIN. 2" BELOW FINISH GRADE ON THE LOWSIDE. CONTRACTOR SHALL CONFIRM GRADES PRIOR TO INSTALLING LANDSCAPE.

FEMA FLOOD MAP: 12099C0393F
FLOOD ZONE X
100 YEAR FLOOD ELEVATION 6.00 NAVD 1988

PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.52' = (NGVD 1929)

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

Always call 811 two full business days before you dig to have underground utilities located and marked.
Sunshine811.com

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
MICHAEL D. SPRUCE, P.E.
FL LICENSE NUMBER 52776
DATE: ———

KHA PROJECT 145994004
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

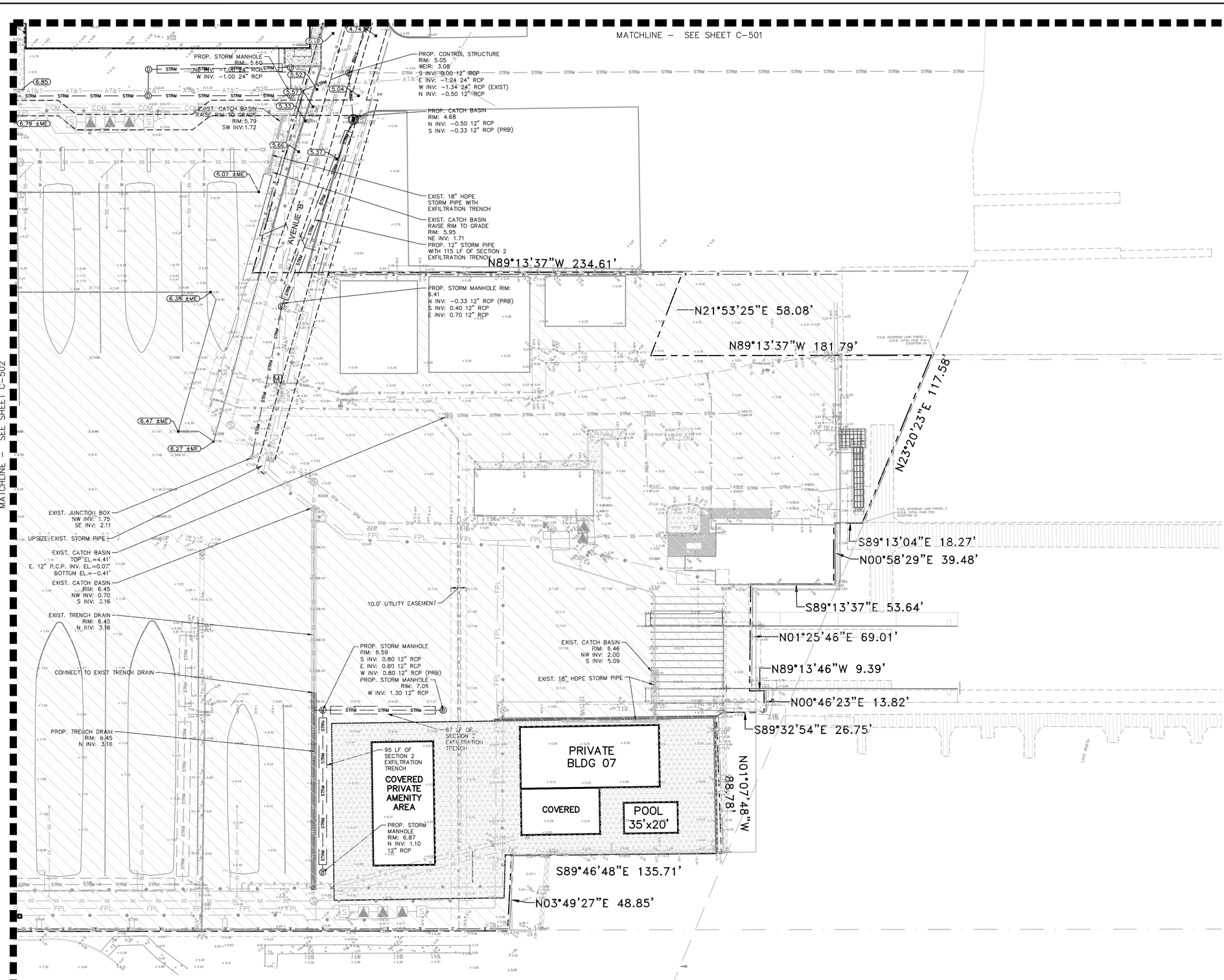
GRADING AND DRAINAGE PLAN

SAFE HARBOR RIVIERA BEACH

PREPARED FOR
SAFE HARBOR MARINAS FL
RIVIERA BEACH

SHEET NUMBER
C-502

Plotted By:Ellis, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-502 GRADING AND DRAINAGE PLAN May 08, 2023 06:43:29pm K:\bca_civil\145994004 — safe harbor riviera beach\CADD\plansheets\C-500 PAVING, GRADING, AND DRAINAGE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adoption by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, inc



LEGEND

- PROPOSED PERVIOUS CONCRETE
- PROPOSED IMPERVIOUS CONCRETE
- PROPERTY LINE
- CENTERLINE OF R/W
- UTILITY CROSSING
- STRM — PROPOSED STORM PIPE
- PROPOSED STORM AREA INLET
- PROPOSED STORM CURB INLET
- PROPOSED STORM MANHOLE
- STRM — EXISTING STORM PIPE
- EXISTING STORM AREA INLET
- EXISTING STORM CURB INLET
- EXISTING STORM MANHOLE
- SS — SS — SANITARY FORCE MAIN PIPE
- SS — SS — SANITARY PIPE
- SANITARY MANHOLE
- FM — FM — FIRE LINE PIPE
- W — W — WATER PIPE
- FIRE HYDRANT
- FIRE DEPARTMENT CONNECTION
- W — W — RECLAIMED WATER PIPE
- IRRIGATION MAIN PIPE
- FO — FO — FIBER OPTIC LINE
- OHL — OHL — OVERHEAD LINE
- T — T — TELEPHONE LINE
- COM — COMMUNICATIONS LINE
- UE — UE — UNDERGROUND ELECTRIC LINE
- FPL — FPL — FPL LINE
- E — ELECTRICAL LINE
- G — G — GAS LINE
- EXISTING UTILITY EASEMENTS
- PROPOSED UTILITY EASEMENTS
- (11.82) PROPOSED SPOT ELEVATION
- (11.82 ±ME) MATCH EXISTING ELEVATION
- 50.00 EXISTING ELEVATION
- FLOW ARROW

PAVING, GRADING AND DRAINAGE NOTES

1. ALL ELEVATIONS ON THE PLANS OR REFERENCED IN THE SPECIFICATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (N.A.V.D. 1988).
2. THE CROSS SLOPE ON ADA ACCESSIBLE ROUTES SHALL NOT EXCEED 2.0%. THE LONGITUDINAL SLOPE ON ADA ACCESSIBLE ROUTES (NOT INCLUDING RAMPS) SHALL NOT EXCEED 5.0%. THE LONGITUDINAL SLOPE FOR RAMPS SHALL NOT EXCEED 1V:12H (8.3%). ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 2.0% IN ANY DIRECTION (INCLUDING DIAGONAL).
3. ALL CATCH BASINS AND DRAINAGE COLLECTION STRUCTURES SHALL BE DESIGNED WITH AN EIGHTEEN INCH (18") VERTICAL SUMP FROM THE INVERT ELEVATION (OR BOTTOM OF BAFFLE) TO THE BOTTOM OF THE STRUCTURE.
4. DRAINAGE STRUCTURES SHALL BE CONSTRUCTED USING U.S. PRECAST (USP) U.S. FOUNDRY (USF) OR FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD (FDOT) PRODUCTS AS SPECIFIED OR APPROVED EQUAL. ALL STORM DRAINAGE STRUCTURES MUST COMPLY WITH CITY OF RIVIERA BEAECH DETAILS AND REGULATIONS.
4. ROOF DRAIN CONNECTIONS TO DRAINAGE PIPE SHALL BE AS FOLLOWS:
   A. FOR ADS N-12 CORRUGATED POLYETHYLENE DRAINAGE PIPE USE ADS DUAL WALL FABRICATED REDUCING SADDLE TEE 4"–24" DIAMETER
   B. FOR RCP DRAINAGE PIPE MAKE CONNECTION FDOT INDEX 280, CONCRETE COLLAR FOR JOINING MAINLINE PIPE AND STUB PIPE DETAIL
   C. NOTIFY CONSULTANT FOR CONNECTION METHOD TO STEEL PIPE.
5. ALL RAMPS SHALL COMPLY WITH FDOT INDEX 522.
6. STORM DRAIN PIPE SHALL BE AS FOLLOWS:
   A. REINFORCED CONCRETE PIPE (RCP) CLASS III PER ASTM C–76 OR HIGH DENSITY POLY–ETHYLENE (HDPE) PIPE FOR 24" OR LESS FOR PIPES AND HP (HIGH PERFORMANCE) STORM PIPE FOR PIPES 30" AND LARGER. ROOF LEADER PIPE MATERIAL SHALL BE PVC SDR–35.
   B. CORRUGATED POLYETHYLENE PIPE PER AASHTO M294 JOINTS SHALL BE WATER TIGHT
   C. ANY STORM PIPE USED MUST BE APPROVED BY LOCAL AUTHORITIES.

CONTRACTOR SHALL SELECT THE MOST ECONOMICAL PRODUCT.

7. CONTRACTOR SHALL CLEAN ALL PROPOSED DRAINAGE STRUCTURES AND PIPES UPON COMPLETION OF CONSTRUCTION.
8. PROPOSED ELEVATIONS OF CURB REPRESENT FACE OF CURB OR EDGE OF PAVEMENT ELEVATIONS UNLESS OTHERWISE NOTED.
9. PROPOSED ELEVATIONS IN ALL PERVIOUS AREAS REPRESENT FINISHED TOP OF SOD/GRASS OR ANY OTHER LANDSCAPING MATERIAL.
10. ALL DRAINAGE STRUCTURES SHALL CONFORM TO THE LATEST FDOT INDEX STANDARDS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
11. MATCH EXISTING GRADES AT TIE–IN LOCATIONS AT PROPERTY LINES.
12. TOP OF LANDSCAPED OR SODDED AREA AGAINST BUILDING SHALL BE MIN. 4" BELOW FINISH FLOOR ELEVATON AND AGAINST SIDEWALK SHALL BE MIN. 2" BELOW FINISH GRADE ON THE LOWSIDE. CONTRACTOR SHALL CONFIRM GRADES PRIOR TO INSTALLING LANDSCAPE.

NOTE: FINAL DESIGN AND GRADING WILL BE PROVIDED DURING ENGINEERING REVIEW.

FEMA FLOOD MAP: 12099C0393F
FLOOD ZONE X
100 YEAR FLOOD ELEVATION 6.00 NAVD 1988

PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.52' = (NGVD 1929)

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

Always call 811 two full business days before you dig to have underground utilities located and marked.

Sunshine811.com

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY–HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561–330–2345 FAX: 561–863–8175
WWW.KIMLEY–HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
MICHAEL D. SPRUCE, P.E.
FL LICENSE NUMBER 52776
DATE: ———

KHA PROJECT 145994004
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

GRADING AND DRAINAGE PLAN

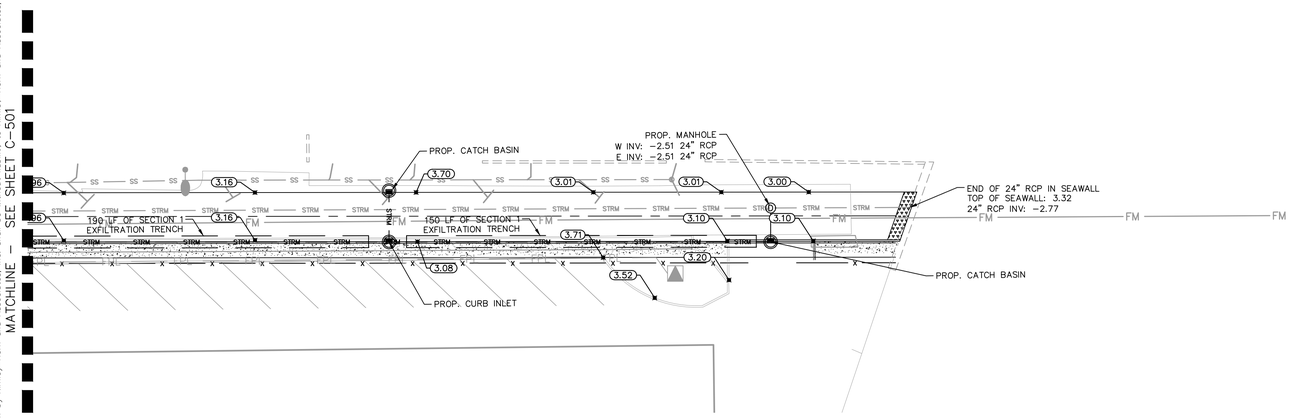
SAFE HARBOR RIVIERA BEACH

PREPARED FOR
SAFE HARBOR MARINAS FL
RIVIERA BEACH

SHEET NUMBER
C-503

Plotted By:Erle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-503 GRADING AND DRAINAGE PLAN May 08, 2023 05:43:41pm K:\bed_civil\145994004 – safe harbor riviera beach\CADD\Sheets\C-500 PAVING, GRADING, AND DRAINAGE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley–Horn and Associates, Inc. shall be without liability to Kimley–Horn and Associates, Inc.

MATCHLINE – SEE SHEET C-502



NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

LEGEND

- PROPOSED PERVIOUS CONCRETE
- PROPOSED IMPERVIOUS CONCRETE
- PROPERTY LINE
- CENTERLINE OF R/W
- UTILITY CROSSING
- PROPOSED STORM PIPE
- PROPOSED STORM AREA INLET
- PROPOSED STORM CURB INLET
- PROPOSED STORM MANHOLE
- EXISTING STORM PIPE
- EXISTING STORM AREA INLET
- EXISTING STORM CURB INLET
- EXISTING STORM MANHOLE
- SANITARY FORCE MAIN PIPE
- SANITARY PIPE
- SANITARY MANHOLE
- FIRE LINE PIPE
- WATER PIPE
- FIRE HYDRANT
- FIRE DEPARTMENT CONNECTION
- RECLAIMED WATER PIPE
- IRRIGATION MAIN PIPE
- FIBER OPTIC LINE
- OVERHEAD LINE
- TELEPHONE LINE
- COMMUNICATIONS LINE
- UNDERGROUND ELECTRIC LINE
- FPL LINE
- ELECTRICAL LINE
- GAS LINE
- EXISTING UTILITY EASEMENTS
- PROPOSED UTILITY EASEMENTS
- 11.82 PROPOSED SPOT ELEVATION
- 11.82 ±ME MATCH EXISTING ELEVATION
- 30.00+ EXISTING ELEVATION
- FLOW ARROW

PAVING, GRADING AND DRAINAGE NOTES

1. ALL ELEVATIONS ON THE PLANS OR REFERENCED IN THE SPECIFICATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (N.A.V.D. 1988).
2. THE CROSS SLOPE ON ADA ACCESSIBLE ROUTES SHALL NOT EXCEED 2.0%. THE LONGITUDINAL SLOPE ON ADA ACCESSIBLE ROUTES (NOT INCLUDING RAMPS) SHALL NOT EXCEED 5.0%. THE LONGITUDINAL SLOPE FOR RAMPS SHALL NOT EXCEED 1V:12H (8.3%). ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 2.0% IN ANY DIRECTION (INCLUDING DIAGONAL).
3. ALL CATCH BASINS AND DRAINAGE COLLECTION STRUCTURES SHALL BE DESIGNED WITH AN EIGHTEEN INCH (18") VERTICAL SUMP FROM THE INVERT ELEVATION (OR BOTTOM OF BAFFLE) TO THE BOTTOM OF THE STRUCTURE.
4. DRAINAGE STRUCTURES SHALL BE CONSTRUCTED USING U.S. PRECAST (USP) U.S. FOUNDRY (USF) OR FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD (FDOT) PRODUCTS AS SPECIFIED OR APPROVED EQUAL. ALL STORM DRAINAGE STRUCTURES MUST COMPLY WITH CITY OF RIVIERA BEACH DETAILS AND REGULATIONS.
4. ROOF DRAIN CONNECTIONS TO DRAINAGE PIPE SHALL BE AS FOLLOWS:
   A. FOR ADS N-12 CORRUGATED POLYETHYLENE DRAINAGE PIPE USE ADS DUAL WALL FABRICATED REDUCING SADDLE TEE 4"-24" DIAMETER
   B. FOR RCP DRAINAGE PIPE MAKE CONNECTION FDOT INDEX 280, CONCRETE COLLAR FOR JOINING MAINLINE PIPE AND STUB PIPE DETAIL
   C. NOTIFY CONSULTANT FOR CONNECTION METHOD TO STEEL PIPE.
5. ALL RAMPS SHALL COMPLY WITH FDOT INDEX 522.
6. STORM DRAIN PIPE SHALL BE AS FOLLOWS:
   A. REINFORCED CONCRETE PIPE (RCP) CLASS III PER ASTM C-76 OR HIGH DENSITY POLY-ETHYLENE (HDPE) PIPE FOR 24" OR LESS FOR PIPES AND HP (HIGH PERFORMANCE) STORM PIPE FOR PIPES 30" AND LARGER. ROOF LEADER PIPE MATERIAL SHALL BE PVC SDR-35.
   B. CORRUGATED POLYETHYLENE PIPE PER AASHTO M294 JOINTS SHALL BE WATER TIGHT
   C. ANY STORM PIPE USED MUST BE APPROVED BY LOCAL AUTHORITIES.

CONTRACTOR SHALL SELECT THE MOST ECONOMICAL PRODUCT.

7. CONTRACTOR SHALL CLEAN ALL PROPOSED DRAINAGE STRUCTURES AND PIPES UPON COMPLETION OF CONSTRUCTION.
8. PROPOSED ELEVATIONS OF CURB REPRESENT FACE OF CURB OR EDGE OF PAVEMENT ELEVATIONS UNLESS OTHERWISE NOTED.
9. PROPOSED ELEVATIONS IN ALL PERVIOUS AREAS REPRESENT FINISHED TOP OF SOD/GRASS OR ANY OTHER LANDSCAPING MATERIAL.
10. ALL DRAINAGE STRUCTURES SHALL CONFORM TO THE LATEST FDOT INDEX STANDARDS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
11. MATCH EXISTING GRADES AT TIE-IN LOCATIONS AT PROPERTY LINES.
12. TOP OF LANDSCAPED OR SODDED AREA AGAINST BUILDING SHALL BE MIN. 4" BELOW FINISH FLOOR ELEVATON AND AGAINST SIDEWALK SHALL BE MIN. 2" BELOW FINISH GRADE ON THE LOWSIDE. CONTRACTOR SHALL CONFIRM GRADES PRIOR TO INSTALLING LANDSCAPE.

FEMA FLOOD MAP: 12099C0393F
FLOOD ZONE X
100 YEAR FLOOD ELEVATION 6.00 NAVD 1988

PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.52' = (NGVD 1929)

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

Always call 811 two full business days before you dig to have underground utilities located and marked.

Sunshine811.com

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
MICHAEL D. SPRUCE, P.E.
FL LICENSE NUMBER
52776
DATE: ____

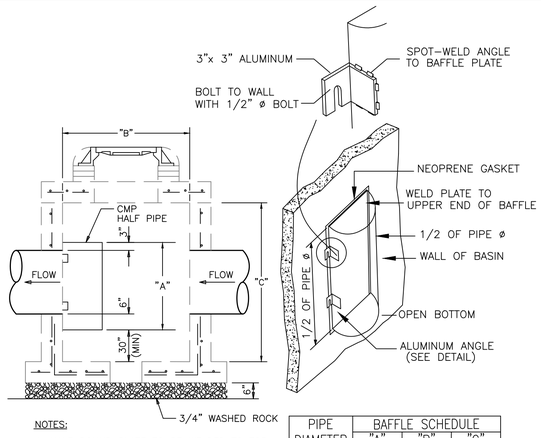
KHA PROJECT	145994004
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	JPL
DRAWN BY	AMS
CHECKED BY	MDS

GRADING AND DRAINAGE PLAN

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
C-504

Plotted By:Erik, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-504 GRADING AND DRAINAGE PLAN May 08, 2023 08:43:56pm K:\Ved_civil\145994004 — safe harbor riviera beach\CADD\plotsheets\C-500 PAVING, GRADING, AND DRAINAGE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



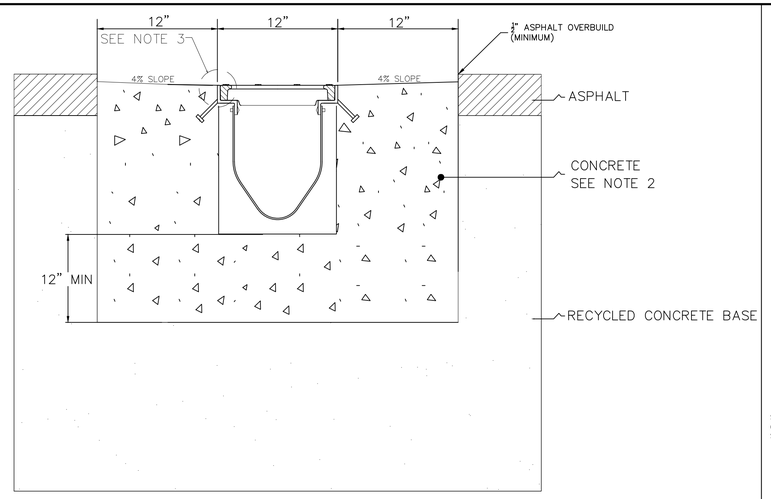
NOTES:

1. HALF ROUND PLATE TO BE WELDED TO TOP FOR POLLUTION RETARDANT BASIN.
2. THE HALF ROUND PIPE SHALL BE ONE SIZE LARGER THAN DISCHARGE PIPE.
3. FOR STRUCTURE'S CONSTRUCTION DIMENSIONS AND SPEC'S., SEE PRECAST CATCH BASIN DETAIL.
4. WEEP HOLES ARE NOT PERMITED IN WELLFIELD AREAS.

PIPE	BAFFLE SCHEDULE		
DIAMETER	"A"	"B"	"C"
15"	27"	24"	37"
18"	30"	24"	37"
24"	36"	36"	36"
30"	42"	36"	42"
36"	48"	42"	54"
42"	56"	56"	56"
48"	60"	48"	60"
60"	72"	72"	72"

POLLUTION RETARDANT BAFFLE (PRB)
NOT TO SCALE

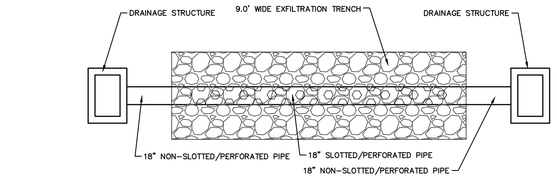
K-H

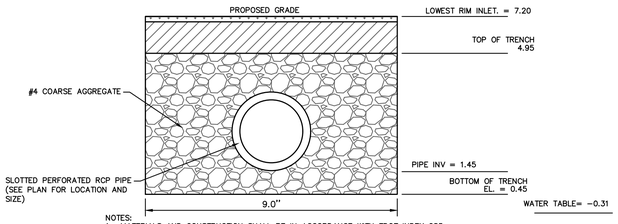


NOTE:

1. CONTRACTOR TO CONFIRM DESIGN WITH ACO DRAIN PRODUCTS AND CONSTRUCT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. SUBMIT SHOP DRAWINGS FOR REVIEW BY ENGINEER. SUBSTITUTIONS OF ALTERNATIVE PRODUCTS MUST BE APPROVED BY ENGINEER.
2. A MINIMUM CONCRETE STRENGTH OF 4000 PSI IS RECOMMENDED. THE CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS.
3. THE FINISHED LEVEL OF CONCRETE SURROUND MUST BE APPROX. ¼" ABOVE THE TOP OF THE CHANNEL EDGE.
4. REFER TO ACO'S LATEST INSTALLATION INSTRUCTIONS FOR COMPLETE DETAILS.

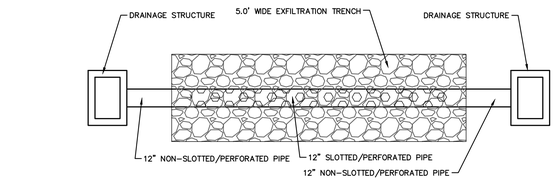
TYPICAL TRENCH DRAIN SECTION
N.T.S.

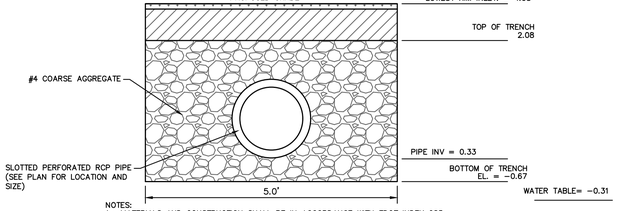




NOTES:
1. MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH FDOT INDEX 285.
2. FILTER FABRIC ALL FOUR (4) SIDES OF EXFILTRATION TRENCH WITH 12" OVERLAP AT TOP OF TRENCH.
3. SLOTS OR PERFORATIONS SHALL BE CONSTRUCTED BY THE PIPE MANUFACTURER AND NOT CUT AT THE PROJECT SITE. SLOTS OR PERFORATIONS SHALL MEET FDOT SPECIFICATIONS.

EXFILTRATION TRENCH (SECTION 1) DETAIL
NOT TO SCALE





NOTES:
1. MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH FDOT INDEX 285.
2. FILTER FABRIC ALL FOUR (4) SIDES OF EXFILTRATION TRENCH WITH 12" OVERLAP AT TOP OF TRENCH.
3. SLOTS OR PERFORATIONS SHALL BE CONSTRUCTED BY THE PIPE MANUFACTURER AND NOT CUT AT THE PROJECT SITE. SLOTS OR PERFORATIONS SHALL MEET FDOT SPECIFICATIONS.

EXFILTRATION TRENCH (SECTION 2) DETAIL
NOT TO SCALE

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201,
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
MICHAEL D. SPRUCE, P.E.
FL LICENSE NUMBER
52776
DATE: _____

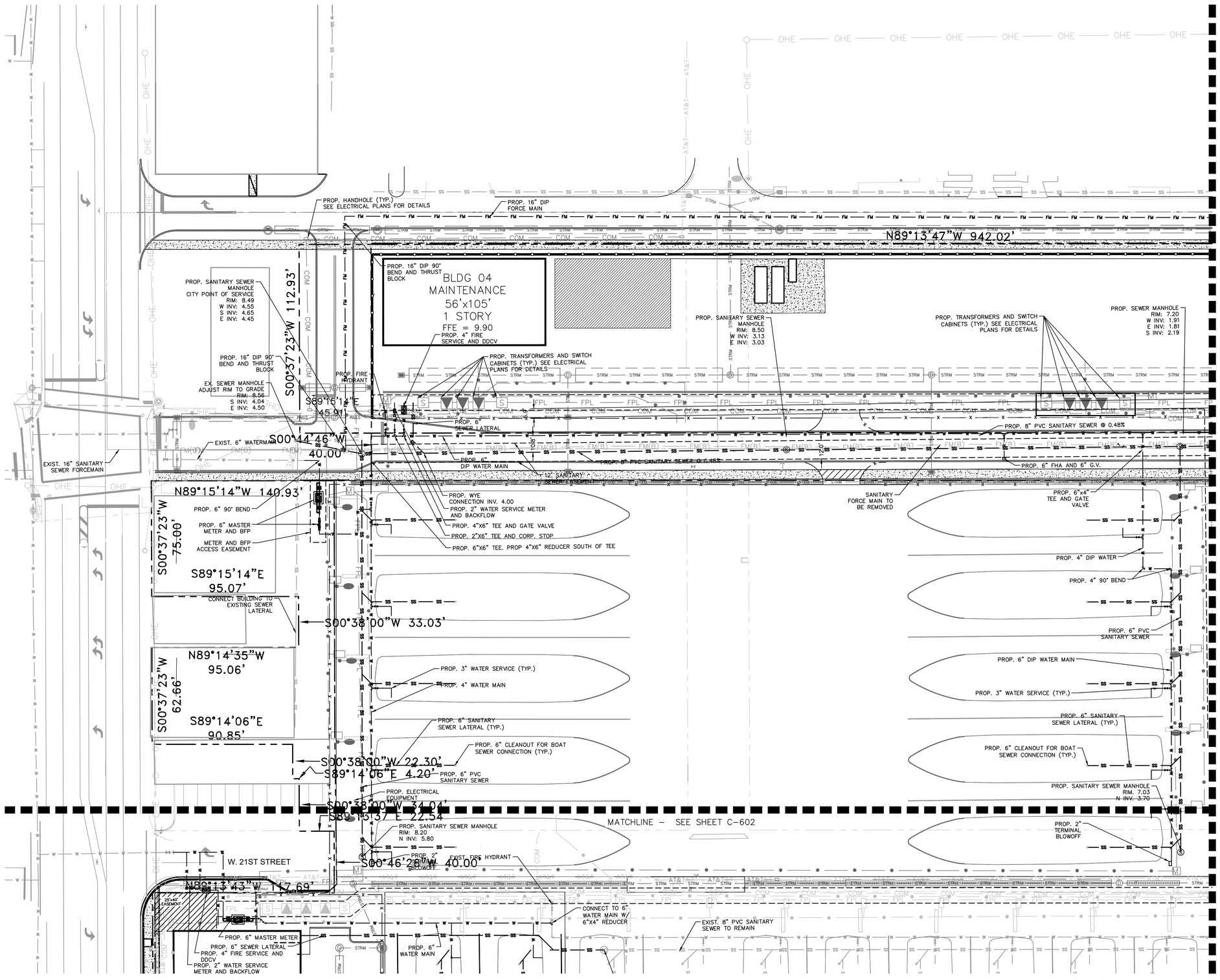
KHA PROJECT 145994004
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

GRADING AND DRAINAGE DETAILS

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
C-510

Plotted By:Erlle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-510 DRAINAGE DETAILS May 08, 2023 06:44:27pm K:\bcd_civil\145994004 - safe harbor riviera beach\CADD\plansheets\C-510 PAVING, GRADING AND DRAINAGE DETAILS.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

LEGEND

- PROPERTY LINE
- CENTERLINE OF R/W
- UTILITY CROSSING
- SFM — PROPOSED SANITARY FORCE MAIN PIPE
- SS — PROPOSED SANITARY PIPE
- PROPOSED SANITARY MANHOLE
- F — PROPOSED FIRE LINE PIPE
- W — PROPOSED WATER LINE PIPE
- PROPOSED FIRE HYDRANT
- PROPOSED FIRE DEPARTMENT CONNECTION
- RWM — PROPOSED RECLAIMED WATER MAIN PIPE
- IRM — PROPOSED IRRIGATION MAIN PIPE
- FO — PROPOSED FIBER OPTIC LINE
- OHL — PROPOSED OVERHEAD LINE
- T — PROPOSED TELEPHONE LINE
- COM — PROPOSED COMMUNICATIONS LINE
- UE — PROPOSED UNDERGROUND ELECTRIC LINE
- FPL — PROPOSED FPL LINE
- E — PROPOSED ELECTRICAL LINE
- G — PROPOSED GAS LINE
- PROPOSED UTILITY EASEMENTS
- SFM — EXISTING SANITARY FORCE MAIN PIPE
- SS — EXISTING SANITARY PIPE
- EXISTING SANITARY MANHOLE
- F — EXISTING FIRE LINE PIPE
- W — EXISTING WATER PIPE
- EXISTING FIRE HYDRANT
- EXISTING FIRE DEPARTMENT CONNECTION
- RWM — EXISTING WATER PIPE
- IRM — EXISTING IRRIGATION MAIN PIPE
- FO — EXISTING FIBER OPTIC LINE
- OHL — EXISTING OVERHEAD LINE
- T — EXISTING TELEPHONE LINE
- COM — EXISTING COMMUNICATIONS LINE
- UE — EXISTING UNDERGROUND ELECTRIC LINE
- FPL — EXISTING FPL LINE
- E — EXISTING ELECTRICAL LINE
- G — EXISTING GAS LINE
- EXISTING UTILITY EASEMENTS
- STRM — STORM PIPE (SEE PAVING, GRADING AND DRAINAGE PLANS)
- STORM AREA INLET
- STORM CURB INLET
- STORM MANHOLE
- PROPOSED LIGHT POLE (SEE ELECTRICAL PLANS)

UTILITY NOTES

1. SEE SHEET C-610 FOR UTILITY NOTES
2. PUBLIC SANITARY SEWER FACILITIES WITHIN EXISTING RIGHTS-OF-WAY NOTED TO BE ABANDONED WILL BE DEMOLISHED AND REMOVED OR CONVERTED TO PRIVATE USE WITH A TERMINAL MANHOLE UPSTREAM OF REMAINING PUBLIC SANITARY SEWER. PUBLIC POTABLE WATER FACILITIES WITHIN EXISTING RIGHTS-OF-WAY NOTED TO BE ABANDONED WILL BE DEMOLISHED AND REMOVED OR CONVERTED TO PRIVATE USE WITH A MASTER METER AND BACKFLOW PREVENTER OUTSIDE THE PROJECT CAMPUS. PUBLIC DRAINAGE FACILITIES WITHIN EXISTING RIGHTS-OF-WAY NOTED TO BE ABANDONED WILL BE DEMOLISHED AND REMOVED OR CONVERTED TO PRIVATE USE. SERVICES TO EXISTING PUBLIC USERS OUTSIDE THE CAMPUS BOUNDARIES WILL NOT BE DISCONNECTED OR OTHERWISE ALTERED.
3. PROPOSED DRY UTILITIES SHOWN ARE DIAGRAMMATIC. CONTRACTOR SHALL INSTALL ALL CONDUIT WITHIN THE PROPOSED DRY UTILITY EASEMENTS AND MAINTAIN A MINIMUM OF 12" HORIZONTAL CLARENCE BETWEEN PROPOSED FPL AND OTHER FACILITIES. REFER TO ELECTRICAL PLANS FOR DETAILS.
4. THE RELOCATED 16-INCH SANITARY FORCEMAIN SHALL BE CONSTRUCTED IN A MANNER SO THAT IT WILL NOT INTERFERE WITH THE EXISTING 16-INCH SANITARY FORCEMAIN PROVIDING UNINTERRUPTED SERVICE.

FEMA FLOOD MAP: 12099C0393F
FLOOD ZONE X
100 YEAR FLOOD ELEVATION 6.00 NAVD 1988

PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.52' = (NGVD 1929)

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

Always call 811 two full business days before you dig to have underground utilities located and marked.

Sunshine811.com

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.

1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
MICHAEL D. SPRUCE, P.E.
FL LICENSE NUMBER
52776
DATE:

KHA PROJECT 145994004
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

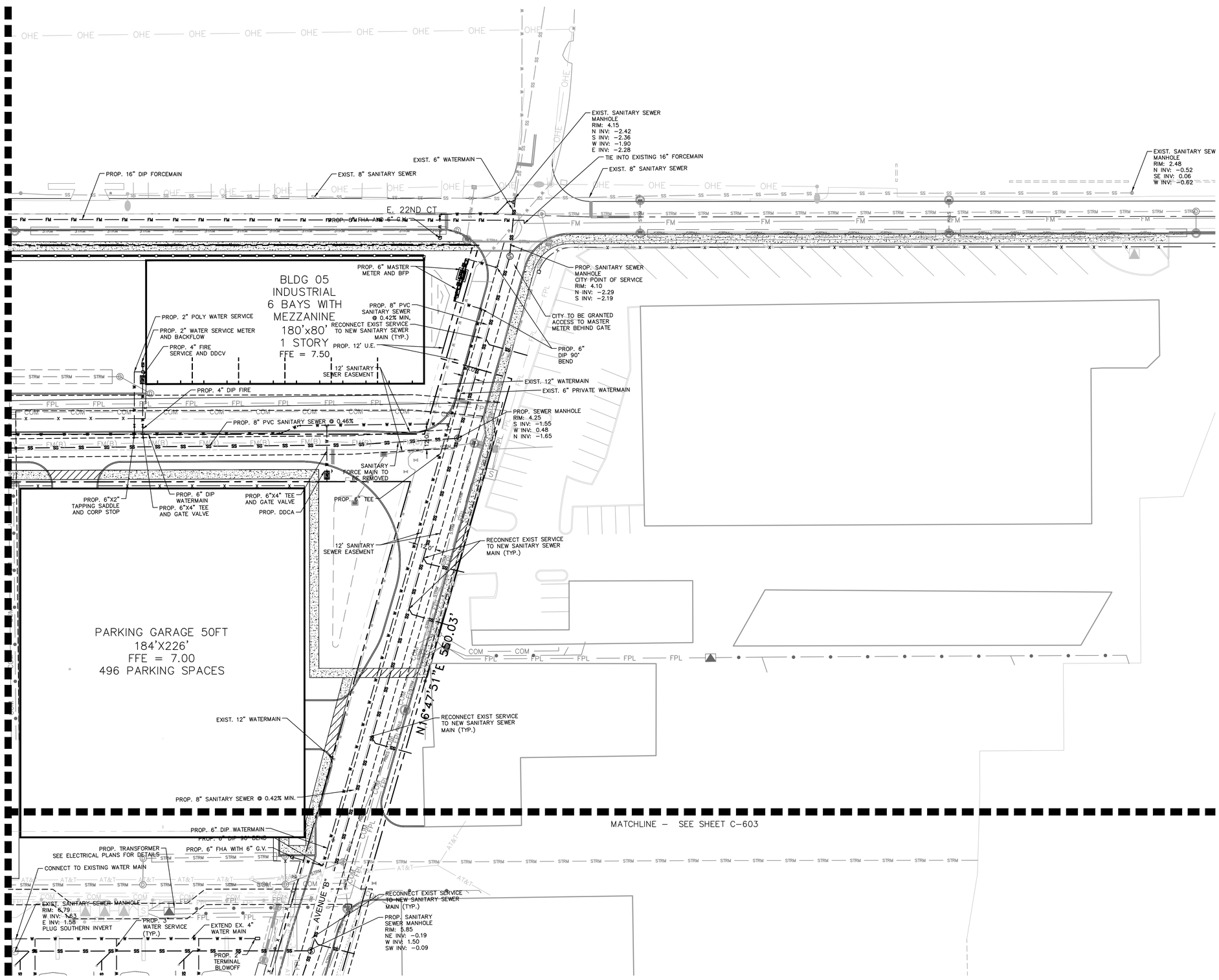
UTILITY PLAN

SAFE HARBOR RIVIERA BEACH

PREPARED FOR
SAFE HARBOR MARINAS FL
RIVIERA BEACH

SHEET NUMBER
C-600

Plotted By:Erfle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-600 UTILITY PLAN May 08, 2023 06:46:38pm K:\Vtcd_civil\145994004 - safe harbor riviera beach\CADD\planSheets\C-600 UTILITY PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



LEGEND

- PROPERTY LINE
- CENTERLINE OF R/W
- UTILITY CROSSING
- PROPOSED SANITARY FORCE MAIN PIPE
- PROPOSED SANITARY PIPE
- PROPOSED SANITARY MANHOLE
- PROPOSED FIRE LINE PIPE
- PROPOSED WATER LINE PIPE
- PROPOSED FIRE HYDRANT
- PROPOSED FIRE DEPARTMENT CONNECTION
- PROPOSED RECLAIMED WATER MAIN PIPE
- PROPOSED IRRIGATION MAIN PIPE
- PROPOSED FIBER OPTIC LINE
- PROPOSED OVERHEAD LINE
- PROPOSED TELEPHONE LINE
- PROPOSED COMMUNICATIONS LINE
- PROPOSED UNDERGROUND ELECTRIC LINE
- PROPOSED FPL LINE
- PROPOSED ELECTRICAL LINE
- PROPOSED GAS LINE
- PROPOSED UTILITY EASEMENTS
- EXISTING SANITARY FORCE MAIN PIPE
- EXISTING SANITARY PIPE
- EXISTING SANITARY MANHOLE
- EXISTING FIRE LINE PIPE
- EXISTING WATER PIPE
- EXISTING FIRE HYDRANT
- EXISTING FIRE DEPARTMENT CONNECTION
- EXISTING WATER PIPE
- EXISTING IRRIGATION MAIN PIPE
- EXISTING FIBER OPTIC LINE
- EXISTING OVERHEAD LINE
- EXISTING TELEPHONE LINE
- EXISTING COMMUNICATIONS LINE
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING FPL LINE
- EXISTING ELECTRICAL LINE
- EXISTING GAS LINE
- EXISTING UTILITY EASEMENTS
- STORM PIPE (SEE PAVING, GRADING AND DRAINAGE PLANS)
- STORM AREA INLET
- STORM CURB INLET
- STORM MANHOLE
- PROPOSED LIGHT POLE (SEE ELECTRICAL PLANS)

UTILITY NOTES

1. SEE SHEET C-610 FOR UTILITY NOTES
2. PUBLIC SANITARY SEWER FACILITIES WITHIN EXISTING RIGHTS-OF-WAY NOTED TO BE ABANDONED WILL BE DEMOLISHED AND REMOVED OR CONVERTED TO PRIVATE USE WITH A TERMINAL MANHOLE UPSTREAM OF REMAINING PUBLIC SANITARY SEWER. PUBLIC POTABLE WATER FACILITIES WITHIN EXISTING RIGHTS-OF-WAY NOTED TO BE ABANDONED WILL BE DEMOLISHED AND REMOVED OR CONVERTED TO PRIVATE USE WITH A MASTER METER AND BACKFLOW PREVENTER OUTSIDE THE PROJECT CAMPUS. PUBLIC DRAINAGE FACILITIES WITHIN EXISTING RIGHTS-OF-WAY NOTED TO BE ABANDONED WILL BE DEMOLISHED AND REMOVED OR CONVERTED TO PRIVATE USE. SERVICES TO EXISTING PUBLIC USERS OUTSIDE THE CAMPUS BOUNDARIES WILL NOT BE DISCONNECTED OR OTHERWISE ALTERED.
3. PROPOSED DRY UTILITIES SHOWN ARE DIAGRAMMATIC. CONTRACTOR SHALL INSTALL ALL CONDUIT WITHIN THE PROPOSED DRY UTILITY EASEMENTS AND MAINTAIN A MINIMUM OF 12" HORIZONTAL CLARENCE BETWEEN PROPOSED FPL AND OTHER FACILITIES. REFER TO ELECTRICAL PLANS FOR DETAILS.
4. THE RELOCATED 16-INCH SANITARY FORCEMAIN SHALL BE CONSTRUCTED IN A MANNER SO THAT IT WILL NOT INTERFERE WITH THE EXISTING 16-INCH SANITARY FORCEMAIN PROVIDING UNINTERRUPTED SERVICE.
5. A 12 FT UTILITY EASEMENT SHALL BE PROVIDED FOR THE WATER MAIN FROM E 22ND CT UP AND INCLUDING THE WATER METER AND BACKFLOW PREVENTER ON AVE B WHICH WILL BE ABANDONED.

FEMA FLOOD MAP: 12099C0393F
FLOOD ZONE X
100 YEAR FLOOD ELEVATION 6.00 NAVD 1988

PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.52' = (NGVD 1929)

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

Always call 811 two full business days before you dig to have underground utilities located and marked.
Sunshine811.com

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
MICHAEL D. SPRUCE, P.E.
FL LICENSE NUMBER 52776
DATE: ——

KHA PROJECT	145994004
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	JPL
DRAWN BY	AMS
CHECKED BY	MDS

UTILITY PLAN

SAFE HARBOR RIVIERA BEACH

PREPARED FOR

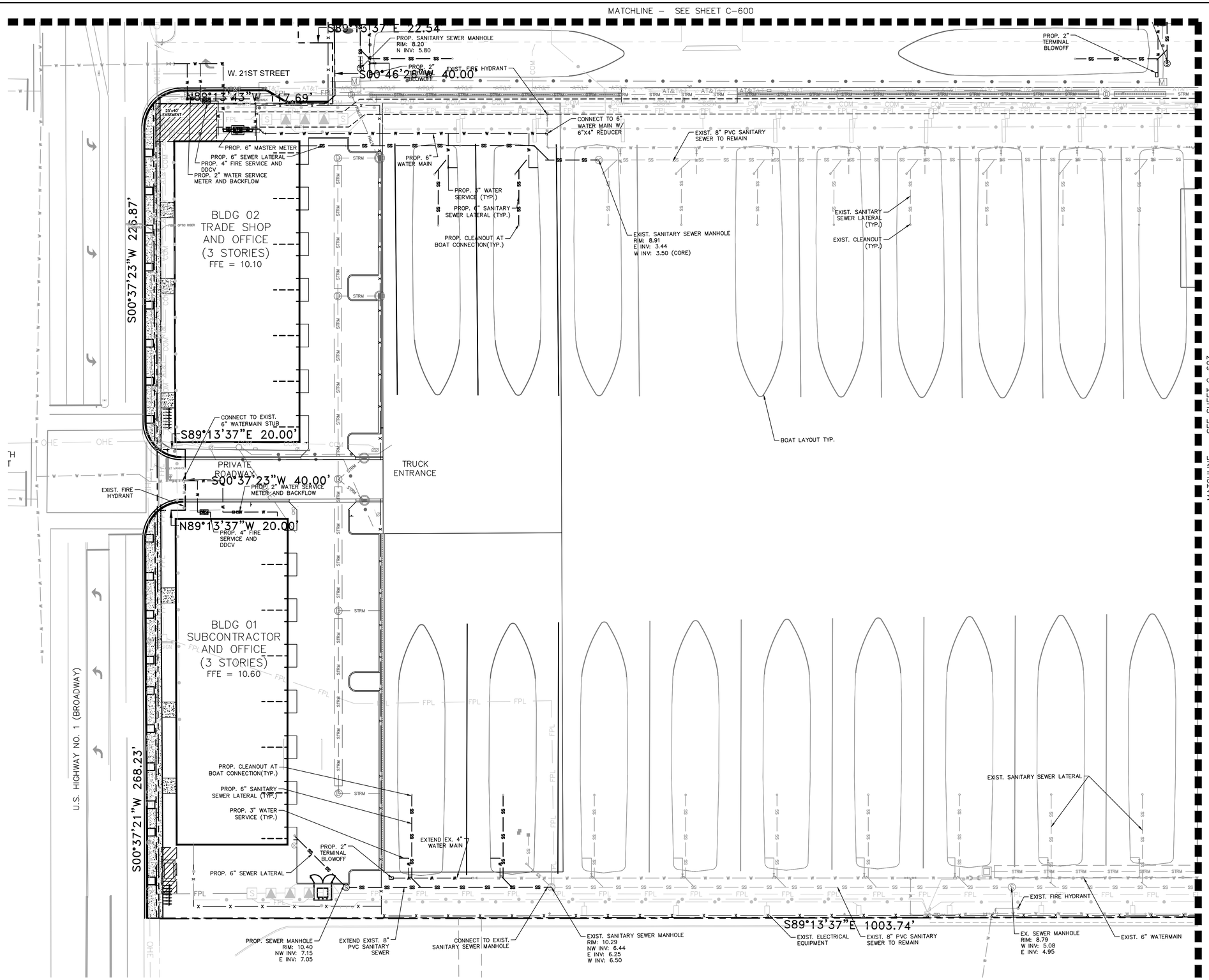
SAFE HARBOR MARINAS

RIVIERA BEACH FL

SHEET NUMBER
C-601

MATCHLINE – SEE SHEET C-600

Plotted By:Erfle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-601 UTILITY PLAN May 08, 2023 05:46:52pm K:\Ded_civil\145994004 - safe harbor riviera beach\CADD\plansheets\C-600 UTILITY PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

LEGEND

- PROPERTY LINE
- CENTERLINE OF R/W
- UTILITY CROSSING
- SFM — SFM — PROPOSED SANITARY FORCE MAIN PIPE
- SS — SS — PROPOSED SANITARY PIPE
- PROPOSED SANITARY MANHOLE
- F — F — PROPOSED FIRE LINE PIPE
- W — W — PROPOSED WATER LINE PIPE
- PROPOSED FIRE HYDRANT
- PROPOSED FIRE DEPARTMENT CONNECTION
- RWM — RWM — PROPOSED RECLAIMED WATER MAIN PIPE
- IRM — IRM — PROPOSED IRRIGATION MAIN PIPE
- FO — FO — PROPOSED FIBER OPTIC LINE
- OHL — OHL — PROPOSED OVERHEAD LINE
- T — T — PROPOSED TELEPHONE LINE
- COM — PROPOSED COMMUNICATIONS LINE
- UE — UE — PROPOSED UNDERGROUND ELECTRIC LINE
- FPL — FPL — PROPOSED FPL LINE
- E — PROPOSED ELECTRICAL LINE
- G — G — PROPOSED GAS LINE
- PROPOSED UTILITY EASEMENTS
- SFM — SFM — EXISTING SANITARY FORCE MAIN PIPE
- SS — SS — EXISTING SANITARY PIPE
- EXISTING SANITARY MANHOLE
- F — F — EXISTING FIRE LINE PIPE
- W — W — EXISTING WATER PIPE
- EXISTING FIRE HYDRANT
- EXISTING FIRE DEPARTMENT CONNECTION
- RWM — RWM — EXISTING WATER PIPE
- IRM — IRM — EXISTING IRRIGATION MAIN PIPE
- FO — FO — EXISTING FIBER OPTIC LINE
- OHL — OHL — EXISTING OVERHEAD LINE
- T — T — EXISTING TELEPHONE LINE
- COM — EXISTING COMMUNICATIONS LINE
- UE — UE — EXISTING UNDERGROUND ELECTRIC LINE
- FPL — FPL — EXISTING FPL LINE
- E — E — EXISTING ELECTRICAL LINE
- G — G — EXISTING GAS LINE
- EXISTING UTILITY EASEMENTS
- STRM — STORM PIPE (SEE PAVING, GRADING AND DRAINAGE PLANS)
- STORM AREA INLET
- STORM CURB INLET
- STORM MANHOLE
- PROPOSED LIGHT POLE (SEE ELECTRICAL PLANS)

UTILITY NOTES

1. SEE SHEET C-610 FOR UTILITY NOTES
2. PUBLIC SANITARY SEWER FACILITIES WITHIN EXISTING RIGHTS-OF-WAY NOTED TO BE ABANDONED WILL BE DEMOLISHED AND REMOVED OR CONVERTED TO PRIVATE USE WITH A TERMINAL MANHOLE UPSTREAM OF REMAINING PUBLIC SANITARY SEWER. PUBLIC POTABLE WATER FACILITIES WITHIN EXISTING RIGHTS-OF-WAY NOTED TO BE ABANDONED WILL BE DEMOLISHED AND REMOVED OR CONVERTED TO PRIVATE USE WITH A MASTER METER AND BACKFLOW PREVENTER OUTSIDE THE PROJECT CAMPUS. PUBLIC DRAINAGE FACILITIES WITHIN EXISTING RIGHTS-OF-WAY NOTED TO BE ABANDONED WILL BE DEMOLISHED AND REMOVED OR CONVERTED TO PRIVATE USE. SERVICES TO EXISTING PUBLIC USERS OUTSIDE THE CAMPUS BOUNDARIES WILL NOT BE DISCONNECTED OR OTHERWISE ALTERED.
3. PROPOSED DRY UTILITIES SHOWN ARE DIAGRAMMATIC. CONTRACTOR SHALL INSTALL ALL CONDUIT WITHIN THE PROPOSED DRY UTILITY EASEMENTS AND MAINTAIN A MINIMUM OF 12" HORIZONTAL CLARENCE BETWEEN PROPOSED FPL AND OTHER FACILITIES. REFER TO ELECTRICAL PLANS FOR DETAILS.
4. A 12 FT UTILITY EASEMENT SHALL BE PROVIDED FOR THE WATER MAIN ON THE PRIVATE ROAD UP AND INCLUDING THE WATER METER AND BACKFLOW PREVENTER.

FEMA FLOOD MAP: 12099C0393F
FLOOD ZONE X
100 YEAR FLOOD ELEVATION 6.00 NAVD 1988

PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.52' = (NGVD 1929)

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

Always call 811 two full business days before you dig to have underground utilities located and marked.
Sunshine811.com

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
MICHAEL D. SPRUCE, P.E.
FL LICENSE NUMBER
52776
DATE:

KHA PROJECT 145994004
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

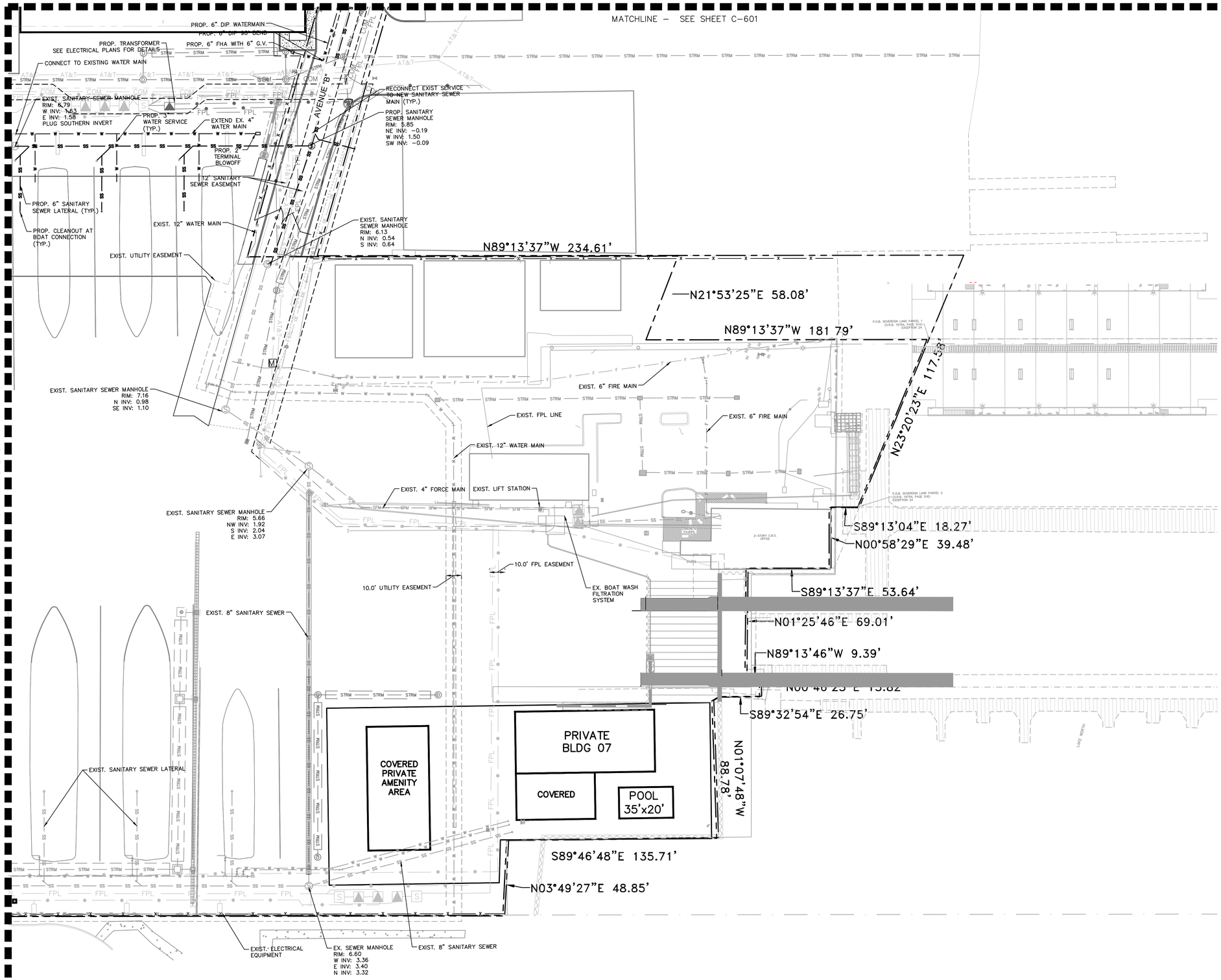
UTILITY PLAN

SAFE HARBOR RIVIERA BEACH

PREPARED FOR
SAFE HARBOR MARINAS FL
RIVIERA BEACH

SHEET NUMBER
C-602

Plotted By:Erfle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-602 UTILITY PLAN May 08, 2023 08:47:07pm K:\bcd_civil\145994004 - safe harbor riviera beach\CADD\plansheets\C-600 UTILITY PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, inc. shall be without liability to Kimley-Horn and Associates, inc.



NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

LEGEND

- PROPERTY LINE
- CENTERLINE OF R/W
- UTILITY CROSSING
- SFM — SFM — PROPOSED SANITARY FORCE MAIN PIPE
- SS — SS — PROPOSED SANITARY PIPE
- PROPOSED SANITARY MANHOLE
- F — F — PROPOSED FIRE LINE PIPE
- W — W — PROPOSED WATER LINE PIPE
- PROPOSED FIRE HYDRANT
- PROPOSED FIRE DEPARTMENT CONNECTION
- RWM — RWM — PROPOSED RECLAIMED WATER MAIN PIPE
- IRM — IRM — PROPOSED IRRIGATION MAIN PIPE
- FO — FO — PROPOSED FIBER OPTIC LINE
- OHL — OHL — PROPOSED OVERHEAD LINE
- T — T — PROPOSED TELEPHONE LINE
- COM — PROPOSED COMMUNICATIONS LINE
- UE — UE — PROPOSED UNDERGROUND ELECTRIC LINE
- FPL — FPL — PROPOSED FPL LINE
- E — PROPOSED ELECTRICAL LINE
- G — G — PROPOSED GAS LINE
- PROPOSED UTILITY EASEMENTS
- SFM — SFM — EXISTING SANITARY FORCE MAIN PIPE
- SS — SS — EXISTING SANITARY PIPE
- EXISTING SANITARY MANHOLE
- F — F — EXISTING FIRE LINE PIPE
- W — W — EXISTING WATER PIPE
- EXISTING FIRE HYDRANT
- EXISTING FIRE DEPARTMENT CONNECTION
- RWM — RWM — EXISTING WATER PIPE
- IRM — IRM — EXISTING IRRIGATION MAIN PIPE
- FO — FO — EXISTING FIBER OPTIC LINE
- OHL — OHL — EXISTING OVERHEAD LINE
- T — T — EXISTING TELEPHONE LINE
- COM — EXISTING COMMUNICATIONS LINE
- UE — UE — EXISTING UNDERGROUND ELECTRIC LINE
- FPL — FPL — EXISTING FPL LINE
- E — E — EXISTING ELECTRICAL LINE
- G — G — EXISTING GAS LINE
- EXISTING UTILITY EASEMENTS
- STRM — STORM PIPE (SEE PAVING, GRADING AND DRAINAGE PLANS)
- STORM AREA INLET
- STORM CURB INLET
- STORM MANHOLE
- PROPOSED LIGHT POLE (SEE ELECTRICAL PLANS)

UTILITY NOTES

1. SEE SHEET C-610 FOR UTILITY NOTES
2. PUBLIC SANITARY SEWER FACILITIES WITHIN EXISTING RIGHTS-OF-WAY NOTED TO BE ABANDONED WILL BE DEMOLISHED AND REMOVED OR CONVERTED TO PRIVATE USE WITH A TERMINAL MANHOLE UPSTREAM OF REMAINING PUBLIC SANITARY SEWER. PUBLIC POTABLE WATER FACILITIES WITHIN EXISTING RIGHTS-OF-WAY NOTED TO BE ABANDONED WILL BE DEMOLISHED AND REMOVED OR CONVERTED TO PRIVATE USE WITH A MASTER METER AND BACKFLOW PREVENTER OUTSIDE THE PROJECT CAMPUS. PUBLIC DRAINAGE FACILITIES WITHIN EXISTING RIGHTS-OF-WAY NOTED TO BE ABANDONED WILL BE DEMOLISHED AND REMOVED OR CONVERTED TO PRIVATE USE. SERVICES TO EXISTING PUBLIC USERS OUTSIDE THE CAMPUS BOUNDARIES WILL NOT BE DISCONNECTED OR OTHERWISE ALTERED.
3. PROPOSED DRY UTILITIES SHOWN ARE DIAGRAMMATIC. CONTRACTOR SHALL INSTALL ALL CONDUIT WITHIN THE PROPOSED DRY UTILITY EASEMENTS AND MAINTAIN A MINIMUM OF 12" HORIZONTAL CLARENCE BETWEEN PROPOSED FPL AND OTHER FACILITIES. REFER TO ELECTRICAL PLANS FOR DETAILS.
4. A 12 FT UTILITY EASEMENT SHALL BE PROVIDED FOR THE 12-INCH WATER MAIN ON AVE B WHICH THE ROW WILL BE ABANDONDED.

FEMA FLOOD MAP: 12099C0393F
FLOOD ZONE X
100 YEAR FLOOD ELEVATION 6.00 NAVD 1988

PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.52' = (NGVD 1929)

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

Always call 811 two full business days before you dig to have underground utilities located and marked.

Sunshine811.com

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
MICHAEL D. SPRUCE, P.E.
FL LICENSE NUMBER 52776
DATE: ——

KHA PROJECT 145994004
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

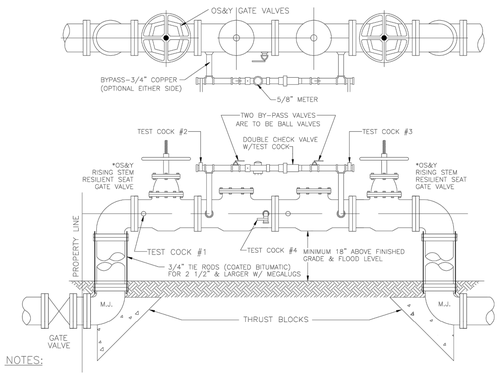
UTILITY PLAN

SAFE HARBOR RIVIERA BEACH

PREPARED FOR
SAFE HARBOR MARINAS FL
RIVIERA BEACH

SHEET NUMBER
C-603

Plotted By:Erfle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-603 UTILITY PLAN May 08, 2023 08:47:24pm K:\Ved_civil\145994004 — safe harbor riviera beach\CADD\planSheets\C-600 UTILITY PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

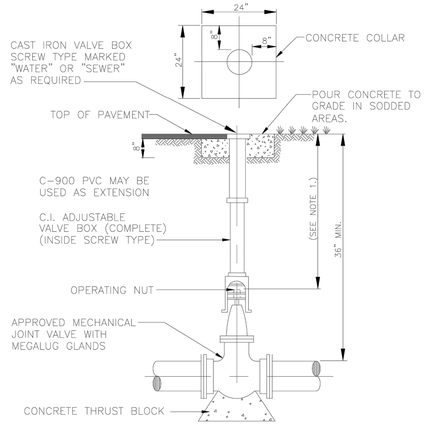


NOTES:

1. ABOVE GROUND INSTALLATION OF 3" & ABOVE REQUIRE RISING STEM O.S. & Y. RESILIENT SEAT GATE VALVES WITH TEST COCKS.
2. INSTALLATION AND CERTIFICATION REQUIRED BY A CERTIFIED BACKFLOW TECHNICIAN PRIOR TO ACCEPTANCE.
3. AN RPZ BACKFLOW PREVENTION ASSEMBLY MUST BE INSTALLED DOWNSTREAM OF THE DOMESTIC AND IRRIGATION METER, 18" – 24" ABOVE FINSHED GRADE ON NON-GALVANIZED METALLIC PIPE. WORK DONE ON THIS DEVICE IS TO BE PERFORMED BY A CERTIFIED BACKFLOW TECHNICIAN AND TEST REPORTS MUST BE SUBMITTED TO THE CITY OF RIVIERA BEACH – UTILITY DISTRICT.

DOUBLE DETECTOR CHECK ASSEMBLY & METER INSTALLATION SIZES:3",4",6",8",10"

N.T.S. 05/27/05

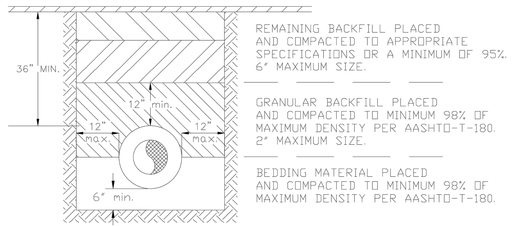


NOTES:

1. WHEN OPERATING NUT IS DEEPER THAN 36" AN EXTENSION WILL BE REQUIRED TO BRING OPERATING NUT 24"–30" BELOW FINISHED GRADE. EXTENSION BOLTS & NUTS ARE TO BE STAINLESS STEEL. A STAINLESS STEEL CENTERING PLATE, WELDED TO THE EXTENSION, IS ALSO REQUIRED.
2. VALVE BOXES SHALL HAVE LOCKING COVERS IN HIGH TRAFFIC ROADWAY AREAS.

TYPICAL GATE VALVE SETTINGS

N.T.S. 05/31/05



NOTES:

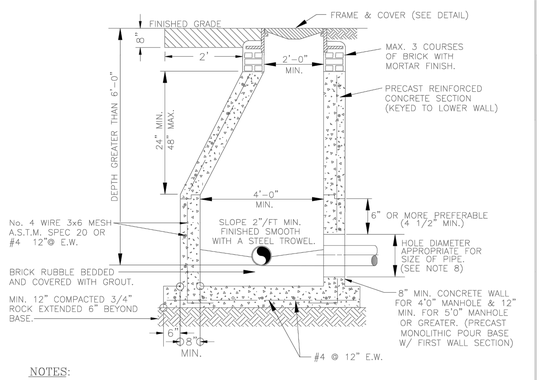
1. BEDDING SHALL CONSIST OF IN-SITU GRANULAR MATERIAL OR WASHED AND GRADED LIMEROCK 3/8"-7/5" SIZING.
2. THE PIPING SHALL BE FULLY SUPPORTED FOR ITS ENTIRE LENGTH WITH APPROPRIATE COMPACTION UNDER THE PIPE HAUNCHES.
3. THE PIPE SHALL BE PLACED IN A DRY TRENCH.
4. BACKFILL SHALL BE FREE OF UNSUITABLE MATERIAL SUCH AS LARGER ROCK, MUCK, AND DEBRIS.
5. DENSITY TESTS ARE REQUIRED IN 1 FOOT LIFTS ABOVE THE PIPE AT INTERVALS OF 400' MAX., OR AS DIRECTED BY THE INSPECTOR.
6. STREET PAVEMENT 2" ASPHALT, BASE 8" LIMEROCK.

Pavement Replacement Detail

05/27/05

Water & Sewer Details

City of Riviera Beach Utility District



NOTES:

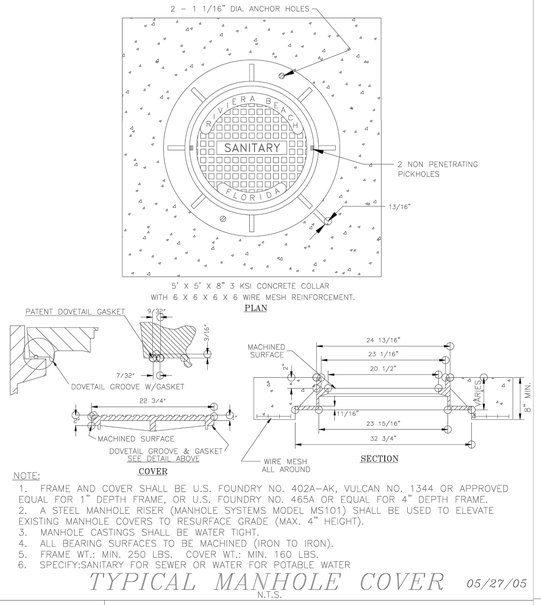
1. PRECAST CONCRETE, TYPE II, ACID RESISTANT, 4000 P.S.I.
2. RAMNEK FLEXIBLE PLASTIC GASKET OR EQUAL AT ALL RISER JOINTS (1/2" THICK, WIDTH AT LEAST HALF THE WALL THICKNESS) WITH NON-SHRINK WATERPROOF GROUT ON INSIDE AND OUTSIDE.
3. ALL OPENINGS SHALL BE SEALED WITH EITHER RESILIENT CONNECTOR (BOOTS) OR P.V.C. MANHOLE ADAPTERS FOR P.V.C. PIPE PENETRATIONS. BOOTS AND ADAPTERS SHALL BE CEMENTED IN WITH NON-SHRINK WATERPROOF GROUT.
4. FLOW CHANNELS SHALL BE CONSTRUCTED TO DIRECT INFLUENT INTO FLOW STREAM, AND SHALL BE FORMED IN ALL MANHOLES TO ACCEPT A T.V. CAMERA.
5. LIFT HOLES ARE PERMITTED, BUT SHALL BE SEALED.
6. ALL PIPE HOLES SHALL BE PRECAST OR CORE-DRILLED, WITH NON-SHRINK, WATER PROOF GROUT.
7. INSIDE DROPS SHALL NOT BE DESIGNED TO EXCEED 1.80 FT. AND NOT CONSTRUCTED TO EXCEED 2.0 FT.
8. MIN. HOLE ø EQUALS PIPE O.D. PLUS 8" FOR P.V.C. ADAPTERS OR PIPE O.D. PLUS 4" FOR BOOTS.
9. MANHOLE FABRICATION SHALL BE IN ACCORDANCE WITH ASTM C-478, LATEST STANDARD.
10. CONDRETE TO BE SEAL COATED WITH 2 COATS OF COAL EPOXY AND 2 COATS OUTSIDE.
11. MANHOLE MUST BE INSPECTED BEFORE PAINTING AND INSTALLATION.

TYPICAL MANHOLE DETAILS

N.T.S. 5/26/05

Water & Sewer Details

City of Riviera Beach Utility District



NOTE:

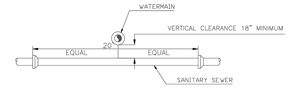
1. FRAME AND COVER SHALL BE U.S. FOUNDRY NO. 402A–AK, VULCAN NO. 1344 OR APPROVED EQUAL FOR 1" DEPTH FRAME, OR U.S. FOUNDRY NO. 465A OR EQUAL FOR 4" DEPTH FRAME.
2. A STEEL MANHOLE RISER (MANHOLE SYSTEMS MODEL MS101) SHALL BE USED TO ELEVATE EXISTING MANHOLE COVERS TO RESURFACE GRADE (MAX. 4" HEIGHT).
3. MANHOLE CASTINGS SHALL BE WATER TIGHT.
4. ALL BEARING SURFACES TO BE MACHINED (IRON TO IRON).
5. FRAME WT.: MIN. 250 LBS. COVER WT.: MIN. 160 LBS.
6. SPECIFY:SANITARY FOR SEWER OR WATER FOR POTABLE WATER

TYPICAL MANHOLE COVER

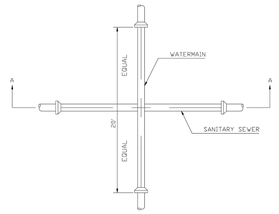
N.T.S. 05/27/05

Water & Sewer Details

City of Riviera Beach Utility District



SECTION A-A



SEWER-WATER MAIN CROSSING DETAIL

STANDARD WATER AND SEWER SEPARATION STATEMENT

1. STORM AND SANITARY SEWER CROSSING UNDER WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF EIGHTEEN (18) INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE LOWER PIPE. WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED, THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND WATER MAIN JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN TEN (10) FEET BETWEEN ANY TWO JOINTS AND BOTH PIPES SHALL BE D.I.P. WHERE THERE IS NOT ALTERNATIVE TO SEWER PIPES CROSSING OVER A WATER MAIN, THE CRITERIA FOR MINIMUM SEPARTION BETWEEN LINES AND JOINTS IN THE ABOVE, SHALL BE REQUIRED AND BOTH PIPES SHALL BE D.I.P. IRRESPECTIVE OF SEPARATION.
2. MAINTAIN TEN (10) FEET HORIZONTAL DISTANCE BETWEEN WATER MAIN AND STORM OR SANITARY SEWER MAIN, AS A MINIMUM.
3. FORCE MAIN CROSSING WATER MAIN SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF EIGHTEEN (18) INCHES BETWEEN THE OUTSIDE OF THE FORCE MAIN AND OUTSIDE OF THE WATER MAIN WITH WATER MAIN CROSSING OVER THE FORCE MAIN.

05/27/05

Water & Sewer Details

City of Riviera Beach Utility District

UTILITY NOTES

1. CONTRACTOR SHALL FURNISH AND INSTALL NECESSARY PIPE AND FITTINGS TO TRANSITION PIPE MATERIALS WHEN REQUIRED AND TO CONNECT TO BUILDING PLUMBING.
2. CONTRACTOR SHALL SUPPORT AND PROTECT ALL EXISTING UTILITIES WHEN CONSTRUCTING NEW UTILITIES.
3. ALL MANHOLES, VALVES, CLEANOUTS AND OTHER SUCH BOXES IN PAVEMENT OR SIDEWALKS SHALL BE SET FLUSH WITH PAVEMENT TO MATCH THE PROPOSED SLOPE AND SHALL BE H-20 TRAFFIC RATED.
4. ANY TREES OR SHRUBS PLACED WITHIN WATER, SEWER, OR DRAINAGE EASEMENTS SHALL CONFORM TO THE CITY OF RIVIERA BEACH STANDARD DETAILS.
5. NO PROPOSED IMPROVEMENTS, BUILDINGS OR ANY KIND OF CONSTRUCTION CAN BE PLACED ON OR WITHIN ANY WATER, SEWER, OR DRAINAGE EASEMENTS, UNLESS APPROVED BY THE CITY OF RIVIERA BEACH CITY ENGINEER.
6. NO PROPOSED STRUCTURES SHALL BE INSTALLED WITHIN A HORIZONTAL DISTANCE OF 10-FEET FROM ANY EXISTING OR PROPOSED WATER, SEWER, OR DRAINAGE FACILITIES, UNLESS APPROVED BY THE CITY OF RIVIERA BEACH CITY ENGINEER.
7. ALL WATER MAIN (WM) SHALL BE PVC C-900 DR-18 UNLESS OTHERWISE NOTED.
8. ALL FIRE MAIN (FM) SHALL BE DIP WITH ALL JOINTS RESTRAINED WITH MEGALUGS UNLESS OTHERWISE NOTED. ALL FIRE MAIN SHALL BE LAID AT 36" MIN. COVER. ALL FIRE RELATED CONSTRUCTION SHALL FOLLOW THE FLORIDA FIRE PREVENTION CODE 5TH EDITION – FLORIDA SPECIFIC NFPA 1, FIRE CODE, 2012 EDITION AND FLORIDA SPECIFIC NFPA 101, LIFE SAFETY CODE, 2012 EDITION.
9. ALL DUCTILE IRON PIPE (DIP) SHALL BE CLASS 350 UNLESS OTHERWISE NOTED. ALL DIP SHALL BE MARKED PER FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) STANDARDS.
10. ALL NEW FIRE HYDRANTS SHALL HAVE "OUT OF SERVICE" SIGNS AFFIXED AT TIME OF INSTALLATION. SIGNS SHALL REMAIN IN PLACE UNTIL THE WATER SYSTEM IS CLEARED FOR USE.
11. ALL WATER MAIN AND FORCE MAINS SHALL HAVE A MINIMUM 36" COVER OVER THE TOP OF THE PIPE UNLESS OTHERWISE NOTED. WATER AND FIRE MAINS SHALL HAVE MIN. 6" VERTICAL SEPARATION FROM EACH OTHER.
12. A MINIMUM HORIZONTAL DISTANCE OF 10 FEET MUST BE PROVIDED BETWEEN WATER MAINS AND STORM OR SANITARY SEWERS.ALL FITTINGS FOR WATER MAIN AND FIRE MAIN SHALL BE DUCTILE IRON MECHANICAL JOINT FITTINGS UNLESS OTHERWISE NOTED.
13. WATER METER SIZES SHALL BE DESIGNED BY ENGINEER OF RECORD AND SHALL BE CHECKED AND AUTHORIZED BY CITY OF RIVIERA BEACH UTILITIES DIVISION.
14. PIPE DEFLECTION OF WATER MAIN AND FIRE MAIN SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATIONS.
15. ALL GRAVITY SEWER MAINS SHALL BE PVC SDR-26 UNLESS OTHERWISE NOTED
16. ALL GRAVITY SEWER LATERALS SHALL BE PVC SDR-35 UNLESS OTHERWISE NOTED.
17. ALL SEWER FORCE MAIN (SFM) SHALL BE PVC C-900 DR-18 UNLESS OTHERWISE NOTED. ALL SEWER FORCE MAIN IS PRIVATE.
18. ANY VITRIFIED CLAY PIPE (VCP) DAMAGED BY NEW CONSTRUCTION OR CONNECTIONS SHALL BE REPLACED WITH NEW SANITARY SEWER MAIN PIPE.
19. SANITARY SEWER PIPE LENGTHS ARE MEASURED FROM CENTER OF MANHOLE TO CENTER OF MANHOLE. CONTRACTOR SHALL ADJUST LIMITS OF PVC TO DIP AS SHOWN IN PROFILE.
20. ALL SEWER LATERALS SHALL BE CONNECTED TO SEWER MAIN AND NOT DIRECTLY INTO SEWER MANHOLES.
21. EXISTING WATER MAIN AND SEWER MAIN SHALL BE REMOVED AFTER PROPOSED WATER MAIN AND/OR SEWER MAIN HAS BEEN TESTED AND ACCEPTED BY PALM BEACH COUNTY HEALTH DEPARTMENT AND EXISTING SERVICES HAVE BEEN RELOCATED.
22. PROPOSED WATER AND SEWER IMPROVEMENTS IN PRIVATE PROPERTY SHALL MEET PALM BEACH COUNTY HEALTH DEPARTMENT SEPARATION REQUIREMENTS, THESE CONFLICTS WILL BE ADDRESS DURING CONSTRUCTION AND WON'T AFFECT THE PUBLIC SAFETY.
23. CONTRACTOR SHALL COORDINATE UNDERGROUND ELECTRIC SERVICE CONNECTION WITH FPL FOR CONDUIT SIZE AND BURIED DEPTH REQUIREMENT.
24. THE CITY OF RIVIERA BEACH UTILITIES DIVISION MUST BE GIVEN AT LEAST 48 HOURS NOTIFICATION PRIOR TO ANY SHUT-DOWN AND/OR REMOVAL OF EXISTING WATER MAIN OR SANITARY SEWER LINES.
25. CITY MAINTAINED UTILITIES WILL NEED TO BE TESTED AND PROTECTED (IE. PAVED AT LEAST UP TO FIRST LIFT, IF NOT ROADWAY) PRIOR TO ISSUANCE OF CERTIFICATION OF OCCUPANCY.
26. LEAD FREE BRASS WATER WORKS PRODUCTS SHALL MEET THE REQUIREMENT OF ASNI/AWWA C800 AND THE MAXIMUM LEAD CONTENT OF S.3872 AND NSF 61 ANNEX G. THE MANUFACTURER'S DESIGNATION AS A LEAD FREE PRODUCT SHALL BE PERMANENTLY STAMPED OR CAST INTO THE PRODUCT'S BODY. EFFECTIVE JANUARY 1, 2013, ONLY LEAD FREE BRASS WATER WORKS PRODUCTS SHALL BE INSTALLED IN CONTACT WITH POTABLE WATER.
27. ALL PROPOSED BACKFLOW PREVENTERS AND DOUBLE DETECTOR CHECK VALVES SHALL BE USC CERTIFIED AND LEAD FREE.

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
MICHAEL D. SPRUCE, P.E.
FL LICENSE NUMBER 52776
DATE:

KHA PROJECT	145994004
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	JPL
DRAWN BY	AMS
CHECKED BY	MDS

UTILITY DETAILS

SAFE HARBOR RIVIERA BEACH

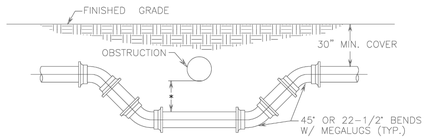
PREPARED FOR

SAFE HARBOR MARINAS

RIVIERA BEACH FL

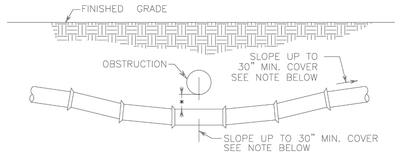
SHEET NUMBER
C-610

Plotted By:Erle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-610 UTILITY DETAILS May 08, 2023 06:48:10pm K:\Srcd_civil\145994004 – safe harbor riviera beach\CADD\plansheets\C-610 UTILITY DETAILS.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



SPECIAL UTILITY CROSSING – FITTING TYPE

* UNLESS SHOWN OTHERWISE, 18" MIN. CLEARANCE WILL BE REQUIRED FOR WATER & SEWER MAIN CROSSING. 4" MIN. CLEARANCE WILL BE REQUIRED FOR OTHER TYPE OF UTILITIES CROSSING.



SPECIAL UTILITY CROSSING – DEFLECTION TYPE

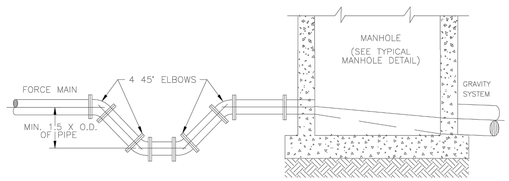
NOTES:

1. THE DEFLECTION TYPE CROSSING SHALL BE USED WHERE EVER POSSIBLE. ONLY UNDER SPECIFIC ORDERS BY THE ENGINEER SHALL THE FITTING TYPE CROSSING BE ALLOWED.
2. CONSTRUCT STANDARD CROSSING USING 75% OF MANUFACTURERS MAXIMUM JOINT DEFLECTION (MAX.).
3. ALL MECHANICAL JOINTS MEGALUG
4. FITTINGS TO BE RESTRAINED WITH RETURN GLANDS AND EITHER THRUST BLOCKS OR TIE RODS.
5. ALL EXPOSED TIE RODS SHALL BE COATED WITH COAL TAR EPOXY.

FORCE MAIN CROSSING

N.T.S.

05/31/05



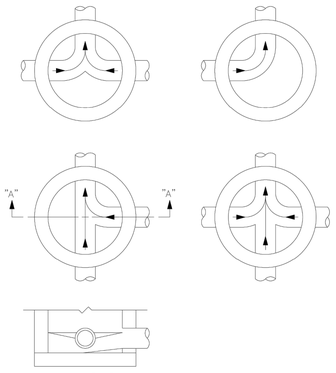
NOTES:

1. FORCE MAIN TO ENTER MANHOLE AS CLOSE AS POSSIBLE TO 180° TO GRAVITY OUTLET.
2. THE INVERT LEVEL OF FORCE MAIN AT POINT OF ENTRY SHALL BE NO MORE THAN 6" ABOVE INVERT OF MANHOLE.
3. CORE ENTRY ONLY INTO EXISTING MANHOLES.
4. TRAP TO BE LOCATED PRIOR TO DROP INTO MANHOLE AND OUTSIDE OF PAVED AREAS, IF POSSIBLE
5. USE TWO 45° ELBOWS PAST TRAP IF ELEVATION DROP IS REQUIRED TO ENTER MANHOLE.
6. FLOW CHANNEL REQUIRED.
7. MANHOLE AND FLOW CHANNEL TO HAVE TWO DIFFERENT COLORED COATS OF 100% SOLIDS EPOXY LINER.
8. FORCE MAINS SHALL BE A MINIMUM OF 4" I.D. EPOXY-LINED D.I.P.
9. ALL MECHANICAL JOINTS TO USE MEGALUG OR EQUAL.

FORCE MAIN ENTERING MANHOLE

N.T.S.

05/31/05



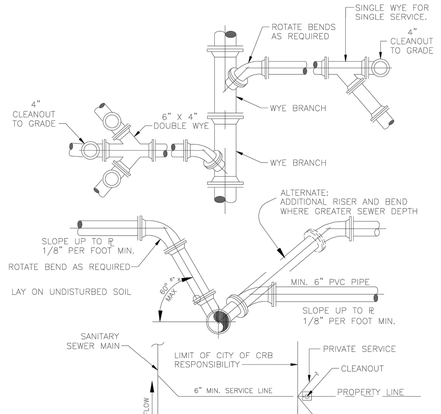
NOTES:

1. ALL INVERT CHANNELS ARE TO BE CONSTRUCTED FOR SMOOTH FLOW WITHOUT OBSTRUCTION.
2. PROPERLY SHAPED SPILLWAYS SHALL BE CONSTRUCTED BETWEEN PIPES WITH DIFFERENT INVERT ELEVATIONS TO PROVIDE FOR SMOOTH FLOWS.
3. SERVICE LATERALS ENTERING MANHOLES SPECIFIED ON PLANS MUST HAVE FLOW CHANNELS.
4. BRICKS AND CONCRETE RUBBLE PERMITTED FOR FLOW CHANNEL BUILDUP.
5. SIDEWALLS OF FLOW CHANNEL SHALL BE AT LEAST HALF OF PIPE HEIGHT AT ALL POINTS.

TYPICAL INVERT FLOW CHANNELS

N.T.S.

5/29/97
INVFLOW



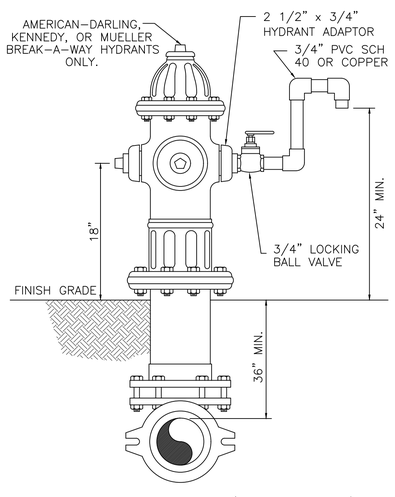
NOTES:

1. SERVICE LATERALS SHALL TERMINATE AT PROPERTY LINE AT A DEPTH OF 3 FEET.
2. CLEANOUT CONNECTION TO BE EXTENDED 3 FEET ABOVE GRADE PRIOR TO WATER METER INSTALLATION.
3. CLEANOUTS ARE TO BE SET TO GRADE PRIOR TO WATER METER ACTIVATION.
4. NO 90° BENDS SHALL BE PERMITTED FOR SEWER SERVICE AND CLEANOUT INSTALLATION.

TYPICAL LATERAL CONNECTIONS

N.T.S.

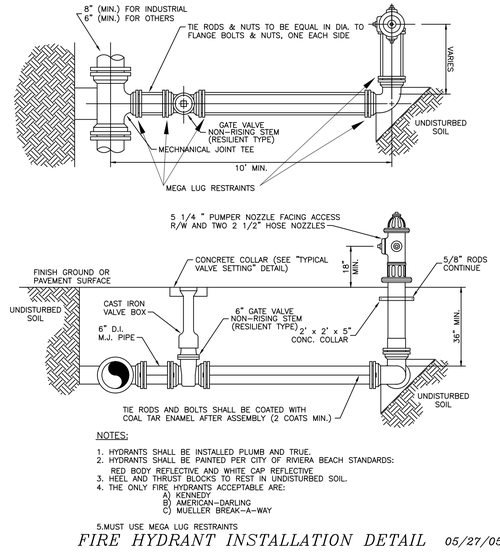
5/27/05



SAMPLE POINT (HYDRANT)

N.T.S.

05/27/05



NOTES:

1. HYDRANTS SHALL BE INSTALLED PLUMB AND TRUE.
2. HYDRANTS SHALL BE PAINTED PER CITY OF RIVIERA BEACH STANDARDS: RED BODY REFLECTIVE AND WHITE CAP REFLECTIVE
3. HEEL AND THRUST BLOCKS TO REST IN UNDISTURBED SOIL.
4. THE ONLY FIRE HYDRANTS ACCEPTABLE ARE:
   A) KENNEDY
   B) AMERICAN-DARLING
   C) MUELLER BREAK-A-WAY
5. MUST USE MEGA LUG RESTRAINTS

FIRE HYDRANT INSTALLATION DETAIL

05/27/05

Water & Sewer Details

City of Riviera Beach Utility District

Plotted By:Erfle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-611 UTILITY DETAILS May 08, 2023 06:48:18pm K:\Wpb_Civil\145994004 - safe harbor riviera beach\CADD\plansheets\C-610 UTILITY DETAILS.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

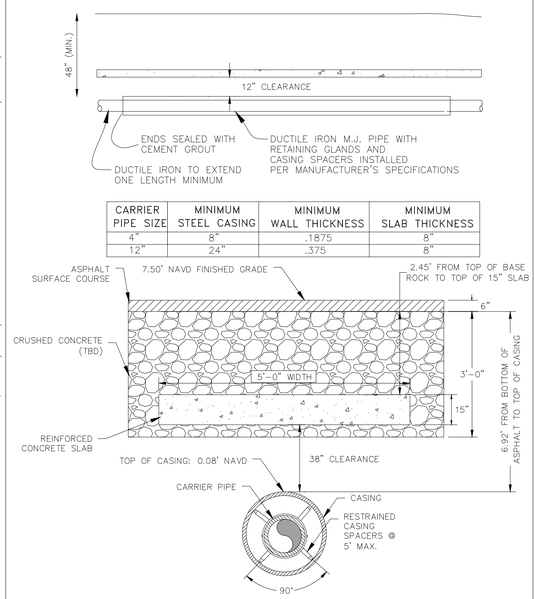
LICENSED PROFESSIONAL
MICHAEL D. SPRUCE, P.E.
FL LICENSE NUMBER 52776
DATE:

KHA PROJECT 145994004	SCALE AS SHOWN
DATE MAY 2023	DESIGNED BY JPL
	DRAWN BY AMS
	CHECKED BY MDS

UTILITY DETAILS

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
C-611



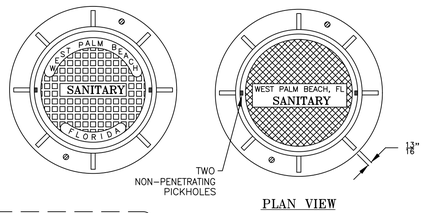
CARRIER PIPE SIZE	MINIMUM STEEL CASING	MINIMUM WALL THICKNESS	MINIMUM SLAB THICKNESS
4"	8"	.1875	8"
12"	24"	.375	8"

UTILITY PROTECTION DETAIL

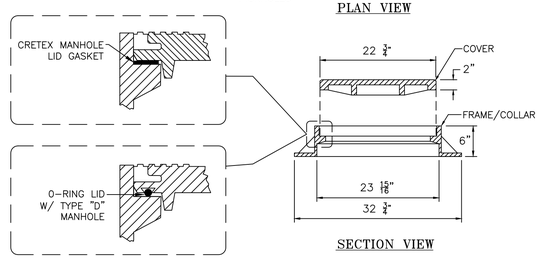
N.T.S.

TYPE "G" MANHOLE

TYPE "D" MANHOLE



PLAN VIEW



SECTION VIEW

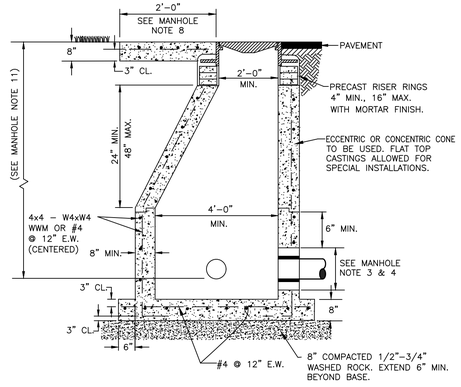
NOTES:

1. PROVIDE U.S. FOUNDRY NO. 240 RING, OR APPROVED EQUAL, WITH COVER TYPE "G" IN PAVED OR GRASSED AREAS, TYPE "D" IN SIDEWALK AND DRIVEWAY AREAS.
2. MANHOLES LOCATED ON PRIVATE PROPERTY SHALL NOT HAVE "WEST PALM BEACH" EMBOSSED ON THEM.
3. IF MANHOLE LIDS ARE NOT FURNISHED WITH THE O-RINGS, USE CRETEX MANHOLE LID GASKET, CRETEX PRODUCTS, WAUKESHA, WISCONSON (OR APPROVED EQUAL)

   COLLAR/FRAME WEIGHT: 195 LBS. (APPROX.)
   COVER WEIGHT: TYPE "D" 125 LBS. (APPROX.), TYPE "G" 130 LBS. (APPROX.)

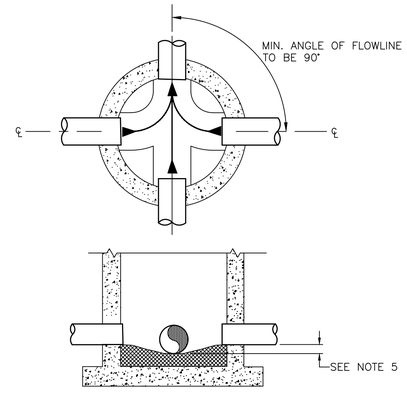
MANHOLE FRAME/COLLAR AND COVER

N.T.S.



MANHOLE

N.T.S.

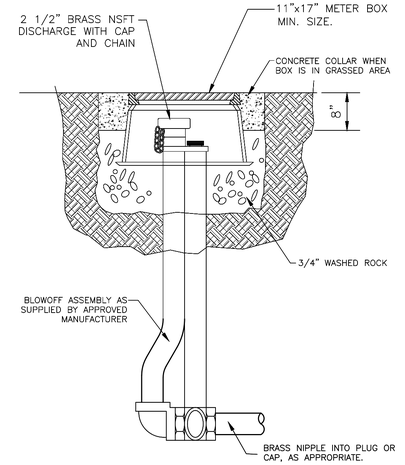


NOTES:

1. PROPERLY SHAPED FLOW CHANNELS SHALL BE CONSTRUCTED BETWEEN PIPES SUCH AS TO PROVIDE FOR SMOOTH FLOW BETWEEN THE INFLUENT PIPE(S) AND THE EFFLUENT PIPE.
2. SERVICE LATERALS ENTERING MANHOLES, MUST BE APPROVED BY THE PUBLIC UTILITIES DEPARTMENT. FLOW CHANNELS SHALL BE PROVIDED.
3. FLOW CHANNELS SHALL BE CONSTRUCTED WITH 6" BRICK RUBBLE, BEDDED AND COVERED WITH 2" MIN. TYPE II PORTLAND CEMENT GROUT.
4. SIDE WALLS OF FLOW CHANNEL(S) SHALL BEGIN AT SPRING LINE OF EACH PIPE, AND SHALL BE SLOPED TO MATCH FLOW LINE.
5. PROVIDE 0.1 FOOT MINIMUM DROP THROUGH MANHOLE BETWEEN HIGHEST INVERT AND LOWEST INVERT.
6. FORCE MAIN TO ENTER MANHOLE AT 180° ±10° FROM GRAVITY OUTFLOW.

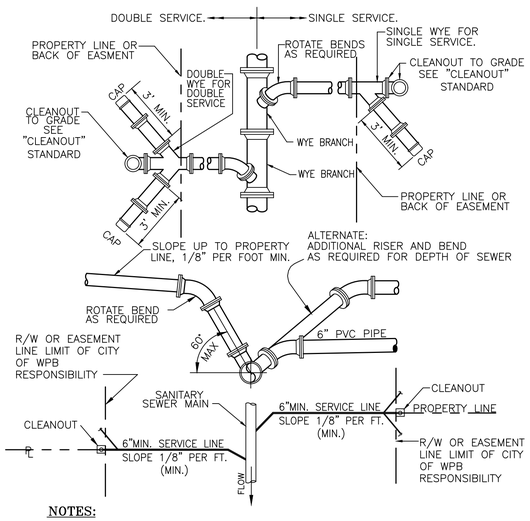
SEWER FLOW CHANNELS

N.T.S.



2" TERMINAL BLOW-OFF

N.T.S.

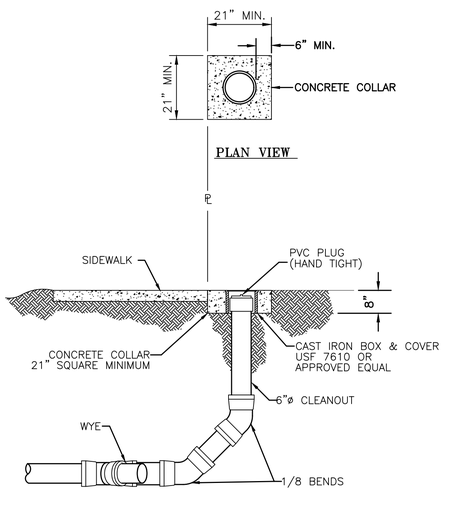


NOTES:

1. SERVICE LATERALS SHALL TERMINATE INSIDE PROPERTY LINE AT A COVER DEPTH OF 3 FEET MIN. HOWEVER, WHERE LOT SIZE IS SUCH THAT ADDITIONAL COVER IS REQUIRED TO MAINTAIN PLUMBING CODE REQUIREMENT FOR EFFLUENT PIPE FALL, COVER SHALL BE INCREASED ACCORDINGLY.
2. CLEAN OUT CONNECTION TO BE INSTALLED WITH 3 FT. MIN COVER, WITH LOCATING DEVICE. THEY ARE THEN TO BE RAISED TO FINISHED GRADE PRIOR TO WATER METER ACTIVATION.

HOUSE LATERAL CONNECTIONS

N.T.S.



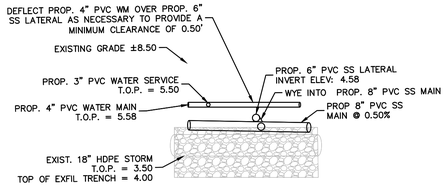
CROSS SECTION

NOTE:

1. WHEN SERVICE LINE DEPTH EXCEEDS 7 FT. OF COVER, WYE MAY BE INSTALLED ON VERTICAL SECTION WITH 3 FT. MIN. COVER.
2. CLEAN-OUT DETAILS ARE TO FOLLOW TO THE LAST CLEAN-OUT PRIOR TO THE LINE ENTERING THE BUILDING.

CLEAN OUT

N.T.S.



UTILITY SERVICE CROSSING DETAIL

Plotted By:Erfle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-612 UTILITY DETAILS May 08, 2023 06:48:21pm K:\Ved_civil\145994004 - safe harbor riviera beach\CADD\plotsets\C-610 UTILITY DETAILS.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
MICHAEL D. SPRUCE, P.E.
FL LICENSE NUMBER
52776
DATE:

KHA PROJECT	145994004
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	JPL
DRAWN BY	AMS
CHECKED BY	MDS

UTILITY DETAILS

SAFE HARBOR RIVIERA BEACH

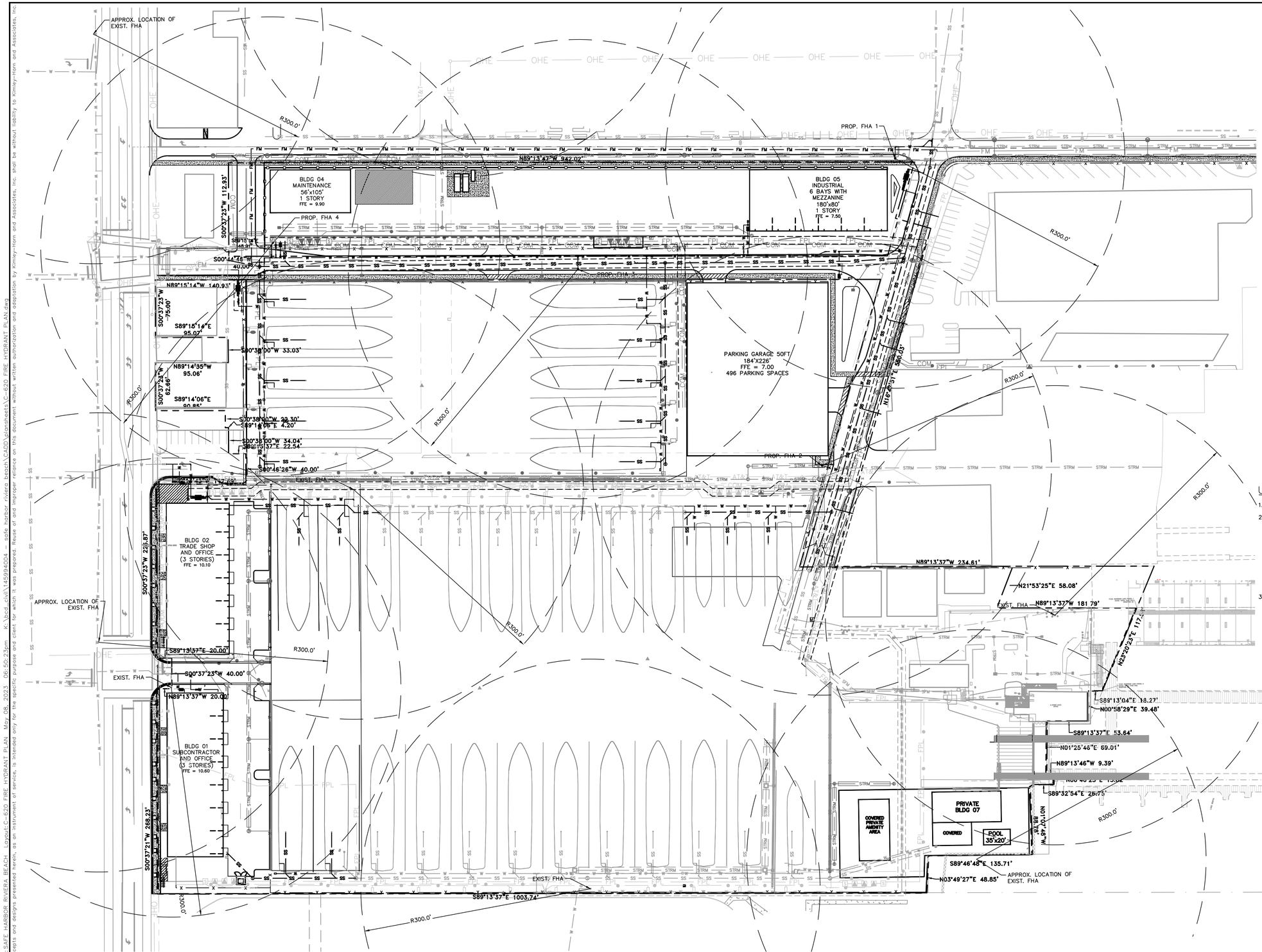
PREPARED FOR

SAFE HARBOR MARINAS

RIVIERA BEACH FL

SHEET NUMBER
C-612

Plotted By:Erfle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-620 FIRE HYDRANT PLAN May 08, 2023 08:50:23pm K:\lod_civil\145994004 — safe harbor riviera beach\CADD\plansheets\C-620 FIRE HYDRANT PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, inc



NORTH

GRAPHIC SCALE IN FEET
0 ## ## ##

LEGEND

- PROPERTY LINE
- CENTERLINE OF R/W
- UTILITY CROSSING
- SFM — SFM — PROPOSED SANITARY FORCE MAIN PIPE
- SS — SS — PROPOSED SANITARY PIPE
- PROPOSED SANITARY MANHOLE
- F — F — PROPOSED FIRE LINE PIPE
- W — W — PROPOSED WATER LINE PIPE
- PROPOSED FIRE HYDRANT
- PROPOSED FIRE DEPARTMENT CONNECTION
- RWM — RWM — PROPOSED RECLAIMED WATER MAIN PIPE
- IRM — IRM — PROPOSED IRRIGATION MAIN PIPE
- FO — FO — PROPOSED FIBER OPTIC LINE
- OHL — OHL — PROPOSED OVERHEAD LINE
- T — T — PROPOSED TELEPHONE LINE
- COM — PROPOSED COMMUNICATIONS LINE
- UE — UE — PROPOSED UNDERGROUND ELECTRIC LINE
- FPL — FPL — PROPOSED FPL LINE
- E — PROPOSED ELECTRICAL LINE
- G — G — PROPOSED GAS LINE
- PROPOSED UTILITY EASEMENTS
- SFM — SFM — EXISTING SANITARY FORCE MAIN PIPE
- SS — SS — EXISTING SANITARY PIPE
- EXISTING SANITARY MANHOLE
- F — F — EXISTING FIRE LINE PIPE
- W — W — EXISTING WATER PIPE
- EXISTING FIRE HYDRANT
- EXISTING FIRE DEPARTMENT CONNECTION
- RWM — RWM — EXISTING WATER PIPE
- IRM — IRM — EXISTING IRRIGATION MAIN PIPE
- FO — FO — EXISTING FIBER OPTIC LINE
- OHL — OHL — EXISTING OVERHEAD LINE
- T — T — EXISTING TELEPHONE LINE
- COM — EXISTING COMMUNICATIONS LINE
- UE — UE — EXISTING UNDERGROUND ELECTRIC LINE
- FPL — FPL — EXISTING FPL LINE
- E — E — EXISTING ELECTRICAL LINE
- G — G — EXISTING GAS LINE
- EXISTING UTILITY EASEMENTS
- STRM — STORM PIPE (SEE PAVING, GRADING AND DRAINAGE PLANS)
- STORM AREA INLET
- STORM CURB INLET
- STORM MANHOLE
- PROPOSED LIGHT POLE (SEE ELECTRICAL PLANS)

UTILITY NOTES

1. SEE SHEET C-610 FOR UTILITY NOTES
2. PUBLIC SANITARY SEWER FACILITIES WITHIN EXISTING RIGHTS-OF-WAY NOTED TO BE ABANDONED WILL BE DEMOLISHED AND REMOVED OR CONVERTED TO PRIVATE USE WITH A TERMINAL MANHOLE UPSTREAM OF REMAINING PUBLIC SANITARY SEWER. PUBLIC POTABLE WATER FACILITIES WITHIN EXISTING RIGHTS-OF-WAY NOTED TO BE ABANDONED WILL BE DEMOLISHED AND REMOVED OR CONVERTED TO PRIVATE USE WITH A MASTER METER AND BACKFLOW PREVENTER OUTSIDE THE PROJECT CAMPUS. PUBLIC DRAINAGE FACILITIES WITHIN EXISTING RIGHTS-OF-WAY NOTED TO BE ABANDONED WILL BE DEMOLISHED AND REMOVED OR CONVERTED TO PRIVATE USE. SERVICES TO EXISTING PUBLIC USERS OUTSIDE THE CAMPUS BOUNDARIES WILL NOT BE DISCONNECTED OR OTHERWISE ALTERED.
3. PROPOSED DRY UTILITIES SHOWN ARE DIAGRAMMATIC. CONTRACTOR SHALL INSTALL ALL CONDUIT WITHIN THE PROPOSED DRY UTILITY EASEMENTS AND MAINTAIN A MINIMUM OF 12" HORIZONTAL CLARENCE BETWEEN PROPOSED FPL AND OTHER FACILITIES. REFER TO ELECTRICAL PLANS FOR DETAILS.

FEMA FLOOD MAP: 12099C0393F
FLOOD ZONE X
100 YEAR FLOOD ELEVATION 6.00 NAVD 1988

PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.52' = (NGVD 1929)

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

Always call 811 two full business days before you dig to have underground utilities located and marked.
Sunshine811.com

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

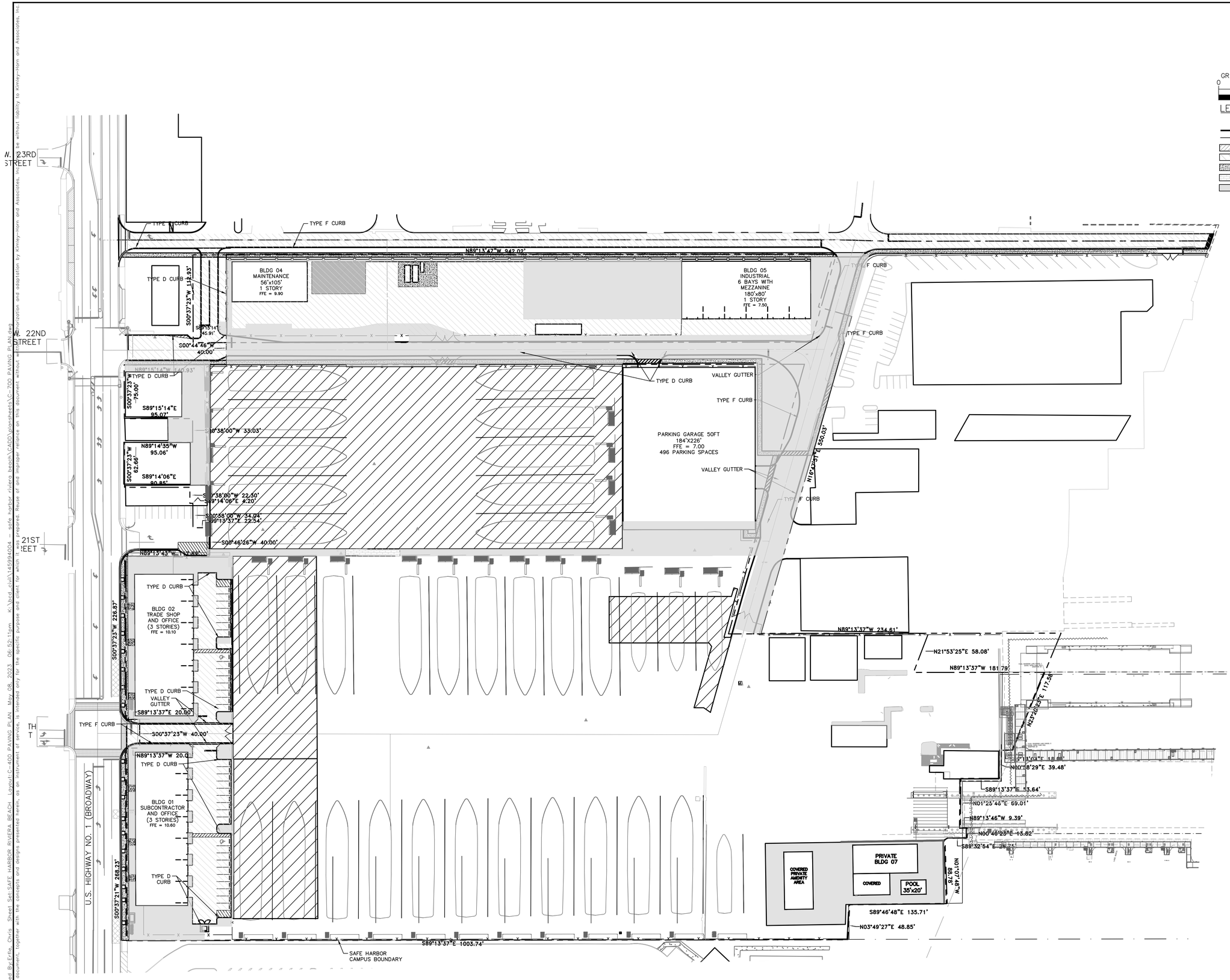
LICENSED PROFESSIONAL
MICHAEL D. SPRUCE, P.E.
FL LICENSE NUMBER
52776
DATE:

KHA PROJECT 145994004
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

FIRE HYDRANT PLAN

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS FL
RIVIERA BEACH

SHEET NUMBER
C-620



Plotted By:Effie, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-400 PAVING PLAN May 08, 2023 06:52:11pm K:\Ved_civil\145994004 - safe harbor riviera beach\CADD\plansheets\C-700 PAVING PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adoption by Kimley-Horn and Associates, Inc. be without liability to Kimley-Horn and Associates, Inc

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
MICHAEL D. SPRUCE, P.E.
FL LICENSE NUMBER
52776
DATE: ———

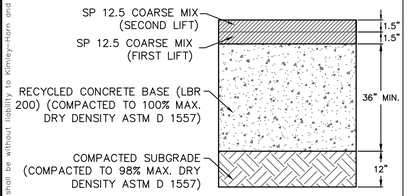
KHA PROJECT
145994004
DATE
MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

PAVING PLAN

SAFE HARBOR RIVIERA BEACH

PREPARED FOR
SAFE HARBOR MARINAS FL
RIVIERA BEACH

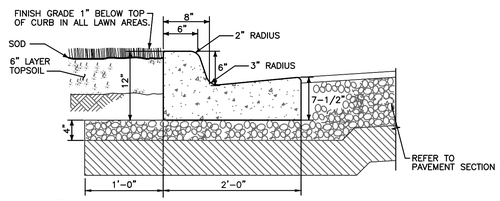
SHEET NUMBER
C-700



NOTES:
1. RECYCLED CONCRETE BASE SHALL BE COMPACTED IN MAXIMUM 12" LIFTS TO THE MINIMUM 36" REQUIRED THICKNESS
2. CONTRACTOR SHALL COMPACT BASE MATERIAL TO 100% MAXIMUM DRY DENSITY (ASTM D 1557)
3. DENSITIES SHALL BE MEASURED AFTER COMPACTION AND PROVIDED TO ENGINEER BEFORE PROCEEDING TO NEXT LIFT
4. ALL AREAS WITH FAILING TESTS SHALL BE RECOMPACTED UNTIL PASSING TESTS ARE ACHIEVED AND DOCUMENTED
5. CONTRACTOR MAY CONSTRUCT ADDITIONAL THICKNESS OF RECYCLED CONCRETE BASE IN LIEU OF COMPACTING IN-SITU SUBGRADE MATERIAL TO WET SEASON WATER TABLE. COMPACT TO 98% MAXIMUM DRY DENSITY (ASTM D 1557) BELOW MINIMUM 36" STANDARD BASE SECTION

BOATYARD PAVEMENT SECTION

NOT TO SCALE

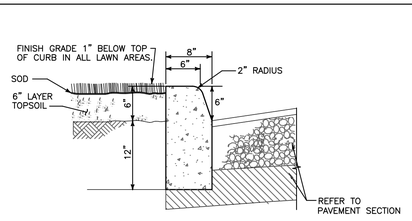


NOTES:
1. GUTTER SLOPE IS TO MATCH THE PAVEMENT SLOPE WHEN USED ON THE HIGH SIDE OF THE PAVEMENT.

TYPE "F" CURB

NOT TO SCALE

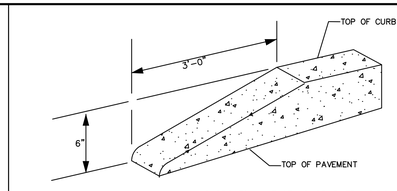
K-H



TYPE "D" CURB

NOT TO SCALE

K-H

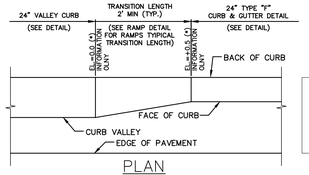


ALL CURBS TO HAVE STANDARD 3' TRANSITION FROM 6" HEIGHT TO FLUSH (0" HEIGHT). A STANDARD TEMPLATE SHALL BE USED AT ALL LOCATIONS TO PROVIDE UNIFORM CURB TRNASITION THROUGHOUT THE PROJECT.

STANDARD CURB END

NOT TO SCALE

K-H



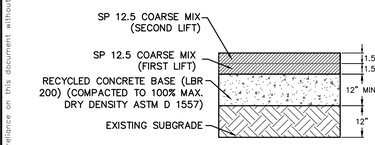
PLAN

(*) ELEVATION ON BACK OF CURBS IS FOR CHANGE IN GRADE INFORMATION FOR TRANSITION FROM 24" TYPE "F" CURB AND GUTTER TO 24" VALLEY CURB.

CURB CUT TRANSITION

NOT TO SCALE

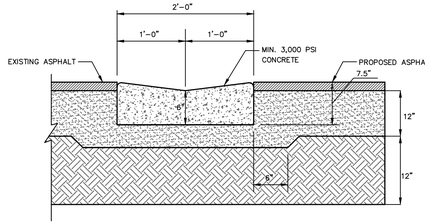
K-H



NOTES:
1. RECYCLED CONCRETE BASE SHALL BE COMPACTED IN MAXIMUM 12" LIFTS TO THE MINIMUM 12" REQUIRED THICKNESS
2. DENSITIES SHALL BE MEASURED AFTER COMPACTION AND PROVIDED TO ENGINEER BEFORE PROCESSING TO NEXT LIFT
3. ALL AREAS WITH FAILING TESTS SHALL BE RECOMPACTED UNTIL PASSING TESTS ARE ACHIEVED AND DOCUMENTED
4. CONTRACTOR MAY CONSTRUCT ADDITIONAL THICKNESS OF RECYCLED CONCRETE BASE IN LIEU OF COMPACTING IN-SITU SUBGRADE MATERIAL TO WET SEASON WATER TABLE, COMPACT TO 98% MAXIMUM DRY DENSITY (ASTM D 1557) BELOW MINIMUM 36" STANDARD BASE SECTION
5. SECTION APPLIES IN ALL AREAS THAT ARE NOT DESIGNATED BOATYARD PAVEMENT

STANDARD PAVEMENT SECTION

NOT TO SCALE



VALLEY GUTTER NOTES:

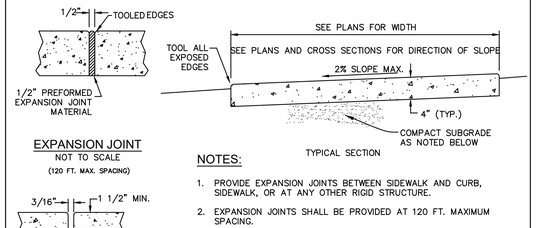
ALL TYPE "F" CURB ELEMENTS SHALL BE PLACED SO THAT THEY ARE ONE-QUARTER (1/4) INCH HIGHER THAN ADJACENT INLET FRAMES AND GRATES. CONCRETE SHALL HAVE A MINIMUM TWENTY-EIGHT (28) DAY STRENGTH OF 3000 P.S.I.

UNLESS OTHERWISE APPROVED, ALL CURB ELEMENTS SHALL HAVE A LIMEROCK FOUNDATION OR "PAD" WITH A MINIMUM LBR OF 100 AND MINIMUM CARBONATE CONTENT OF 70%. PADS SHALL BE AT LEAST FOUR (4) INCHES THICK, EXTENDING SIX (6) INCHES (MIN.) BEYOND THE EDGES OF THE CONCRETE COMPACTED TO 98% OF MAXIMUM DENSITY, PER AASHTO T-180. THE USE OF OTHER MATERIALS SHALL BE CONSIDERED ON A CASE BY CASE BASIS.

VALLEY GUTTER DETAIL

NOT TO SCALE

K-H

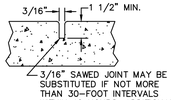


TYPICAL SECTION

EXPANSION JOINT

NOT TO SCALE

(120 FT. MAX. SPACING)



3/16" SAWED JOINT MAY BE SUBSTITUTED IF NOT MORE THAN 30-FOOT INTERVALS WITHIN 12 HOURS. ADDITIONAL JOINTS MAY BE CUT WITHIN 96 HOURS @ 5 FT. INTERVALS.

CONTRACTION JOINT

NOT TO SCALE

(5 FT. MAX. SPACING)

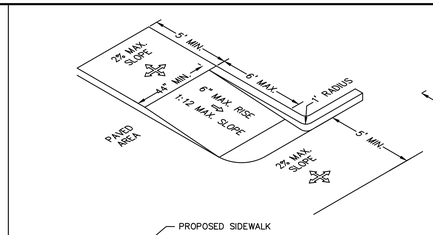
NOTES:

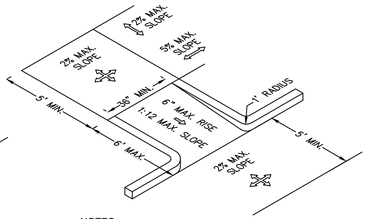
1. PROVIDE EXPANSION JOINTS BETWEEN SIDEWALK AND CURB, SIDEWALK, OR AT ANY OTHER RIGID STRUCTURE.
2. EXPANSION JOINTS SHALL BE PROVIDED AT 120 FT. MAXIMUM SPACING.
3. ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 3,000 P.S.I. (MIN.) @ 28 DAYS FOR SIDEWALKS.
4. MINIMUM THICKNESS OF SIDEWALK SHALL BE AS NOTED ABOVE.
5. FOR SIDEWALKS OR DRIVEWAYS WITHIN R.O.W., COMPACT SUBGRADE TO 98% OF MAXIMUM DENSITY AS DETERMINED BY ASTM1557. COMPACTION OUTSIDE R.O.W. MAY BE 95% OF MAXIMUM DENSITY.

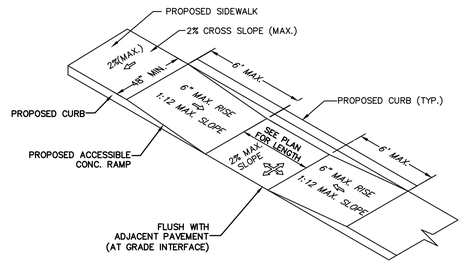
CONCRETE SIDEWALK DETAIL

NOT TO SCALE

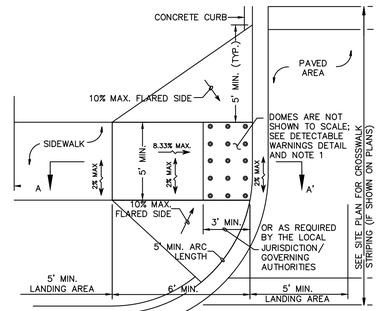
K-H



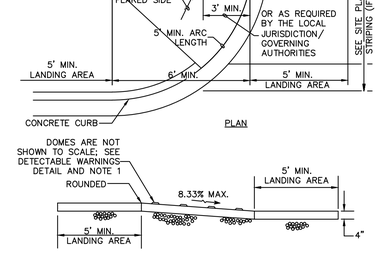


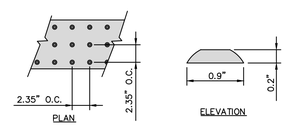


NOTES:
1. ALL ACCESSIBLE COMPONENTS CONSTRUCTED AS PART OF THESE PLANS SHALL COMPLY WITH CHAPTER 11 OF THE FLORIDA BUILDING CODE.
2. ACCESSIBLE ROUTE TO ACCESSIBLE SPACES, BUILDING ENTRANCES, AND PUBLIC STREETS SHALL NOT EXCEED 5% RUNNING SLOPE AND 2% CROSS SLOPE.
3. CHANGE IN ELEVATION WITHIN THE ACCESSIBLE ROUTE IS NOT TO EXCEED ½" WITHOUT A CURB RAMP PER SECTION11-4.3.8.
4. UNLESS OTHERWISE SHOWN ON THE PLANS, THE MINIMUM CLEAR ROUTE SHALL BE 36" WIDE WITH A 60"x60" PASSING SPACE EVERY 200 FEET.
5. ACCESSIBLE ROUTES THROUGH PLANTERS SHALL BE LEVEL WITH THE SURROUNDING PAVEMENT OR PROVIDE CURB RAMPS AT EACH END WITH A MINIMUM 48" LEVEL LANDING IN BETWEEN.
6. THE ACCESSIBLE ROUTE IN FRONT OF PULL-IN PARKING SHALL BE A MINIMUM OF 44" WIDE AND NOT REDUCED BY VEHICLE OVERHANGS, CURBING, SIGN POSTS, OR OTHER OBSTRUCTIONS.
7. ANY WALK THAT CROSSES OR ADJOINS A VEHICULAR WAY NOT SEPARATED BY CURBS, RAILINGS, OR OTHER ELEMENTS SHALL BE DEFINED BY A CONTINUOUS 36" WIDE DETECTABLE WARNING.
8. SPECIAL RAMP RULES APPLY FOR ANY RISE GREATER THAN 6" INCLUDING BUT NOT LIMITED TO RESTRICTION ON SLOPE, TOTAL RISE BETWEEN LANDINGS, AND USE OF HANDRAILS, PER F.B.C 11-4.8.
9. PUBLIC SIDEWALK CURB RAMPS CONSTRUCTED WITHIN A PUBLIC RIGHT-OF-WAY, IN ABSENCE OF LOCAL ROADWAY GUIDELINES, SHALL MEET THE REQUIREMENTS OF F.D.O.T INDEX 522-001.
10. CURB RAMPS SHALL HAVE A DETECTABLE WARNING EXTENDING THE FULL WIDTH AND DEPTH OF THE RAMP.
11. DETECTABLE WARNINGS SHALL CONSIST OF EXPOSED AGGREGATE CONCRETE, CUSHIONED SURFACES MADE OF RUBBER OR PLASTIC, OR RAISED STRIPS. GROOVED SURFACES ON OUTDOOR CURB RAMPS ARE NOT PERMITTED. VERIFY LOCAL REQUIREMENTS WITH THE BUILDING DEPARTMENT.
12. WHEN ACCESSIBLE PARKING ABUTS CURB OR EDGE OF PAVEMENT, PLEASE REFER TO DETAIL FOR STRIPING COLOR, STALL DIMENSIONS AND SLOPE.



PLAN





NOTE: PREFABRICATED PANELS PER A.D.A. ACCESSIBILITY GUIDELINES SECTION 4.29.2 & A4.29.2 SHALL BE USED.

GENERAL PAVING NOTES

1. ASPHALT SURFACE COURSE SHALL BE ALLOWED TO CURE FOR MINIMUM 30 DAYS BEFORE LOADING WITH WIGGINS MARINA BULL OR CIMOLAI MBH 450 TO PREVENT DAMAGE AS ASPHALTIC CONCRETE HARDENS.
2. ASPHALT SURFACE DEFORMATIONS ARE ANTICIPATED TO OCCUR IMMEDIATELY AFTER INITIAL LOADING (EXTENT OF DEFORMATIONS UNKNOWN). SUBSEQUENT PASSES WITH LOADED MARINA BULL OR MBH 450 ARE ANTICIPATED TO RESULT IN ADDITIONAL DEFORMATIONS AT A DECREASING RATE UNTIL DEEP SUBGRADE MATERIALS CONSOLIDATE UNDER LOADING. DEPTH OF RUTS SHOULD BE MEASURED AFTER 30 DAYS OF USE.
3. ADDITIONAL SURFACE DAMAGE MAY OCCUR DURING TURNING MOVEMENTS. CARE SHOULD BE TAKEN TO TURN MACHINERY WHILE IN MOTION RATHER THAN STATIC TURNS WHENEVER POSSIBLE.
4. PAVEMENT SURFACE REPAIRS WILL CONSIST OF ISOLATED MILLING IN VICINITY OF RUTS OR SCARS FOLLOWED BY INSTALLATION OF ADDITIONAL ASPHALTIC CONCRETE AS DIRECTED BY ENGINEER.

Plotted By:Erfle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-702 PAVING DETAILS May 08, 2023 06:52:14pm K:\bcd_civil\145934004 - safe harbor riviera beach\CAD\plansheets\C-700 PAVING PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
MICHAEL D. SPRUCE, P.E.
FL LICENSE NUMBER 52776
DATE: ———

KHA PROJECT 145934004
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

PAVING DETAILS

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
C-702

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

NORTH

GRAPHIC SCALE IN FEET
0 30 60 120

LEGEND

- BASIN BOUNDARY
- IMPERVIOUS AREA – 13.64 AC
- PERVIOUS AREA – 4.12 AC
- BUILDING AREA – 2.91 AC
- WATER AREA – 0.18 AC
- TOTAL AREA – 20.85 AC

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201,
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
MICHAEL D. SPRUCE, P.E.
FL LICENSE NUMBER
52776
DATE:

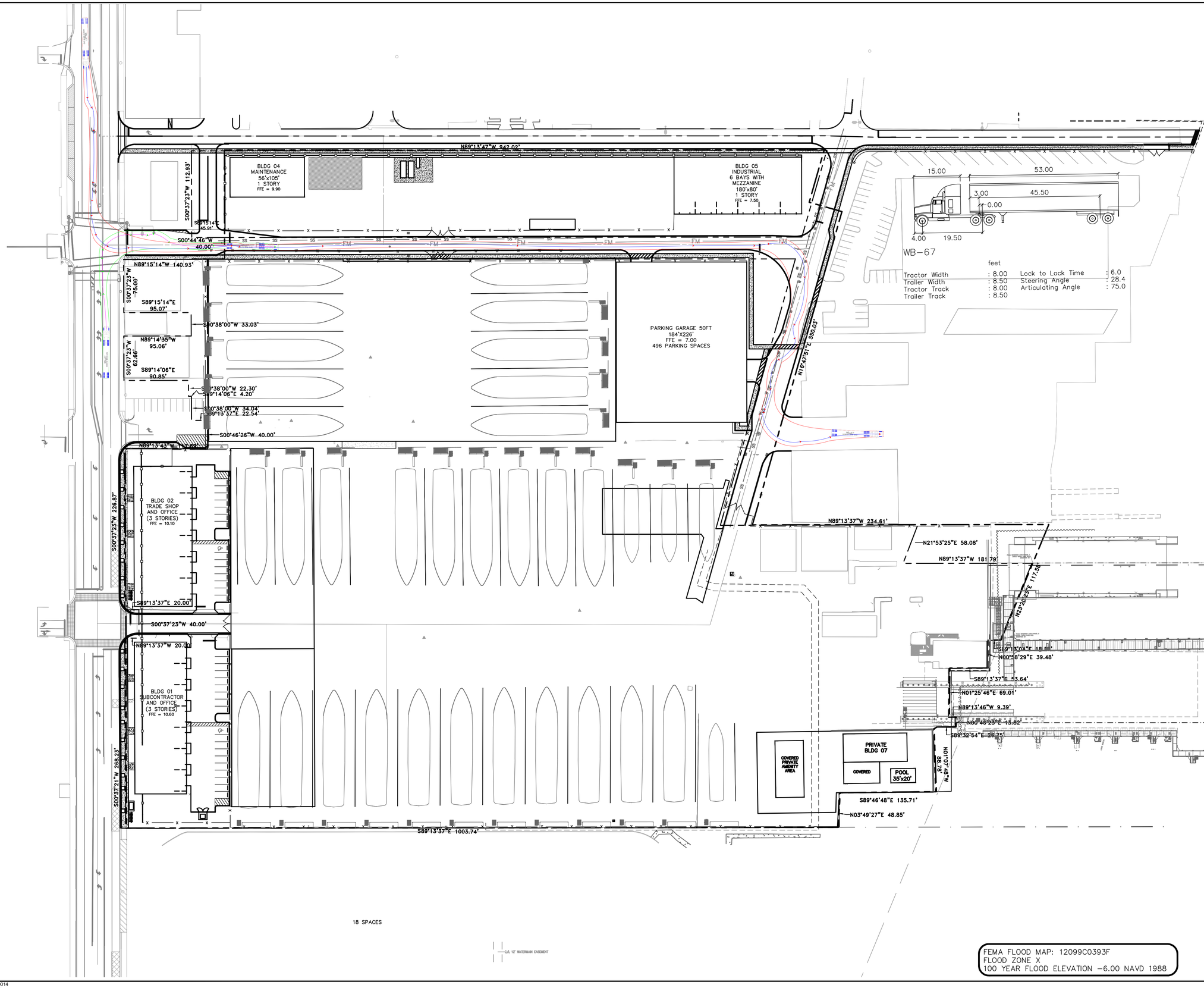
KHA PROJECT
145994004
DATE
MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

POST DEVELOPMENT AREA PLAN

SAFE HARBOR
RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
EXH-01

Plotted By:Erfle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:AUTOTURN PLAN – CAR TRAFFIC ROUTING May 08, 2023 06:54:41pm K:\Ved_civil\145994004 – safe harbor riviera beach\CAD\plansheets\AUTOTURN PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



No.	REVISIONS	DATE	BY

Kimley»Horn

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.

1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL

MICHAEL D. SPRUCE, P.E.

FL LICENSE NUMBER
52776

DATE:

KHA PROJECT
145994004

DATE
MAY 2023

SCALE AS SHOWN

DESIGNED BY

DRAWN BY

CHECKED BY

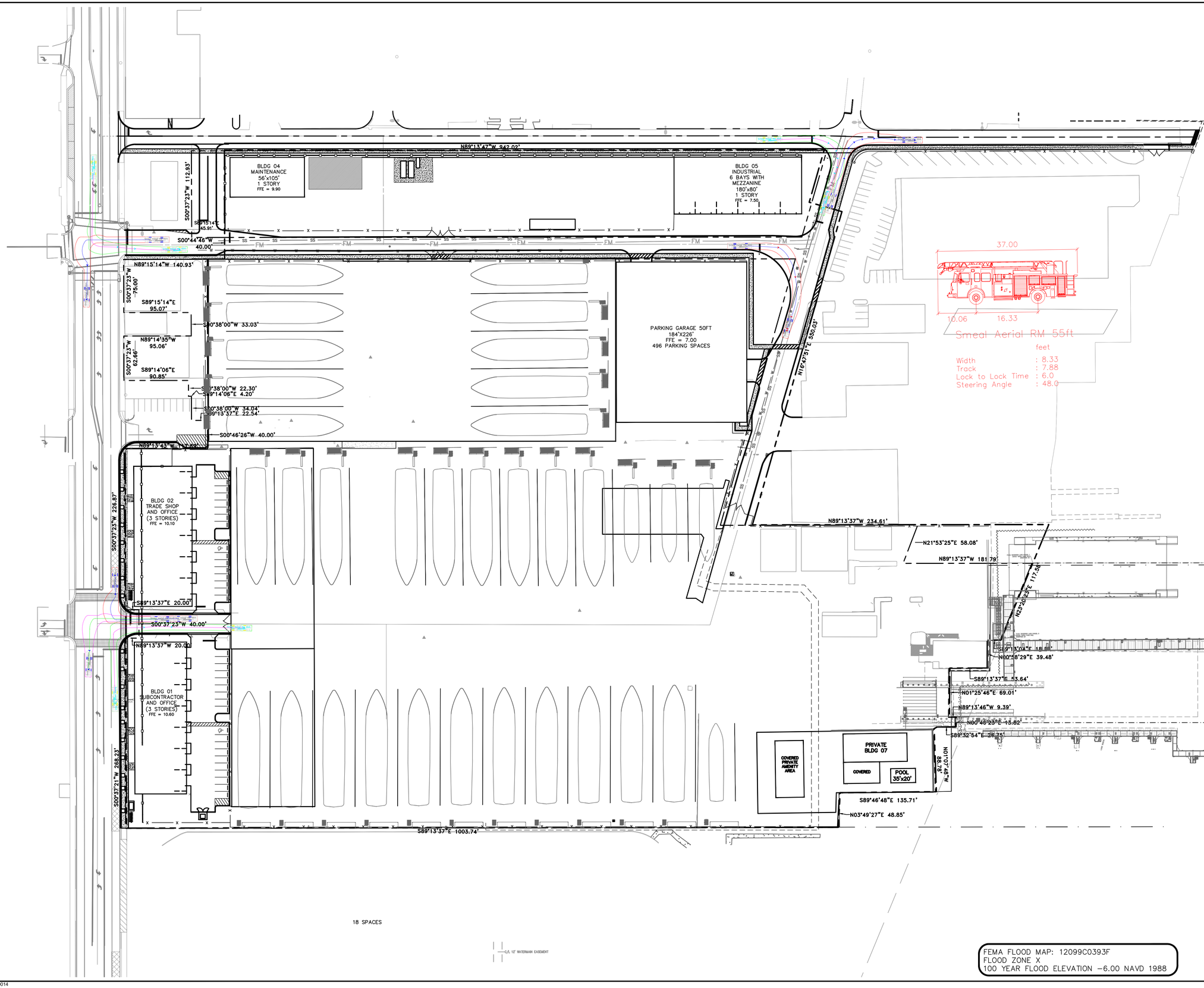
AUTOTURN PLAN - TRUCK TRAFFIC ROUTING - IN

SAFE HARBOR RIVIERA BEACH

PREPARED FOR
SAFE HARBOR MARINAS FL
RIVIERA BEACH

SHEET NUMBER
EXH-03

Plotted By:Erfle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:AUTOTURN PLAN – TRUCK TRAFFIC ROUTING – IN May 08, 2023 08:54:55pm K:\Ved_civil\145994004 – safe harbor riviera beach\CAD\Plansheets\AUTOTURN PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



No.	REVISIONS	DATE	BY

Kimley»Horn

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.

1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL

MICHAEL D. SPRUCE, P.E.

FL LICENSE NUMBER
52776

DATE:

KHA PROJECT
145994004

DATE
MAY 2023

SCALE AS SHOWN

DESIGNED BY

DRAWN BY

CHECKED BY

AUTOTURN PLAN - FIRETRUCK TRAFFIC ROUTING

SAFE HARBOR RIVIERA BEACH

PREPARED FOR

SAFE HARBOR MARINAS

RIVIERA BEACH FL

SHEET NUMBER

EXH-05

Plotted By:Erfle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:AUTOTURN PLAN – TRUCK TRAFFIC ROUTING – OUT May 08, 2023 06:55:08pm K:\brd_civil\145994004 – safe harbor riviera beach\CAD\plansheets\AUTOTURN PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

N89°13'47"W 942.02'

BLDG 04
MAINTENANCE
56'x105'
1 STORY
FFE = 9.90

BLDG 05
INDUSTRIAL
6 BAYS WITH
MEZZANINE
180'x80'
1 STORY
FFE = 7.50

S00°37'23"W 112.83'

S89°15'14"E 45.91'

S00°44'46"W 40.00'

N89°15'14"W 140.93'

S00°37'23"W 75.00'

S89°15'14"E 95.07'

S0°38'00"W 33.03'

N89°14'35"W 95.06'

S00°37'23"W 62.66'

S89°14'06"E 90.85'

S0°38'00"W 22.30'

S89°14'06"E 4.20'

S0°38'00"W 34.04'

S89°13'37"E 22.54'

S00°46'26"W 40.00'

N89°13'43"W 1.64'

PARKING GARAGE 50FT
184'X226'
FFE = 7.00
496 PARKING SPACES

N16°47'51"E 350.03'

BLDG 02
TRADE SHOP
AND OFFICE
(3 STORIES)
FFE = 10.10

S00°37'23"W 226.87'

S89°13'37"E 20.00'

S00°37'23"W 40.00'

N89°13'37"W 20.00'

BLDG 01
SUBCONTRACTOR
AND OFFICE
(3 STORIES)
FFE = 10.60

S00°37'21"W 268.23'

S89°13'37"E 1003.74'

18 SPACES

CA, 12' WATERMAIN EASEMENT

15.00 53.00 3.00 45.50 0.00 4.00 19.50

WB-67

feet			
Tractor Width	: 8.00	Lock to Lock Time	: 6.0
Trailer Width	: 8.50	Steering Angle	: 28.4
Tractor Track	: 8.00	Articulating Angle	: 75.0
Trailer Track	: 8.50		

N89°13'37"W 234.61'

N21°53'25"E 58.08'

N89°13'37"W 181.79'

N23°00'23"E 117.58'

S89°13'04"E 18.00'

N00°58'29"E 39.48'

S89°13'37"E 53.64'

N01°25'46"E 69.01'

N89°13'46"W 9.39'

N60°46'23"E 43.62'

S89°32'54"E 26.75'

N01°07'48"W 88.78'

COVERED PRIVATE AMENITY AREA

PRIVATE BLDG 07

COVERED

POOL 35'x20'

S89°46'48"E 135.71'

N03°49'27"E 48.85'

FEMA FLOOD MAP: 12099C0393F
FLOOD ZONE X
100 YEAR FLOOD ELEVATION –6.00 NAVD 1988

NORTH

GRAPHIC SCALE IN FEET
0 30 60 120

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL

MICHAEL D. SPRUCE, P.E.

FL LICENSE NUMBER
52776

DATE:

KHA PROJECT
145994004
DATE
MAY 2023
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

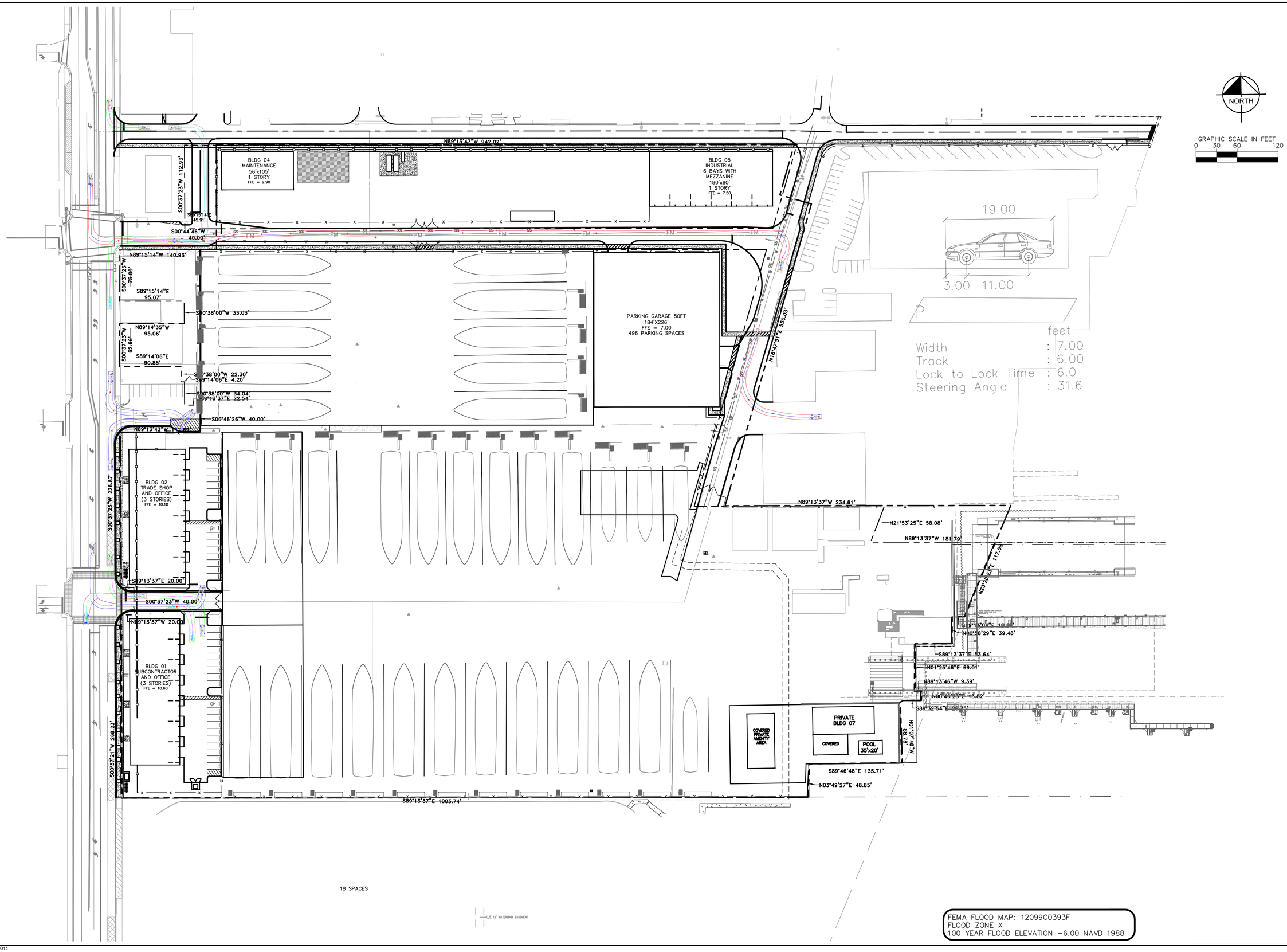
AUTOTURN PLAN - TRUCK TRAFFIC ROUTING - OUT

SAFE HARBOR RIVIERA BEACH

PREPARED FOR
SAFE HARBOR MARINAS FL
RIVIERA BEACH

SHEET NUMBER
EXH-04

Plotted By:Erfle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:AUTOTURN PLAN - FIRETRUCK TRAFFIC ROUTING May 08, 2023 06:55:22pm K:\bcd_civil\145994004 - safe harbor riviera beach\CADD\plansheets\AUTOTURN PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL

MICHAEL D. SPRUCE, P.E.

FL LICENSE NUMBER
52776

DATE:

KHA PROJECT
145994004
DATE
MAY 2023
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

AUTOTURN PLAN - CAR TRAFFIC ROUTING

SAFE HARBOR RIVIERA BEACH

PREPARED FOR
SAFE HARBOR MARINAS FL
RIVIERA BEACH

SHEET NUMBER
EXH-02

SHEET L-101

SHEET L-102

SHEET L-103

SHEET L-104

NORTH

GRAPHIC SCALE IN FEET
0 30 60 120

LIMITS OF WORK (TYP.)

PROPERTY LINE (TYP.)

E. 22ND COURT

E. 22ND STREET

E. 21ST STREET

20TH STREET

US HIGHWAY NO. 1 (STATE ROAD NO. 5)

AVENUE "B"

AVENUE "C"
(TO BE ABANDONED)

BLDG 01
SUBCONTRACTOR
AND OFFICE
(3 STORIES)
FFE = 10.60

BLDG 02
TRADE SHOP
AND OFFICE
(3 STORIES)
FFE = 10.10

BLDG 04
MAINTENANCE
56'x105'
1 STORY
FFE = 9.90

BLDG 05
INDUSTRIAL
6 BAYS WITH
MEZZANINE
180'x80'
1 STORY
FFE = 7.9

PARKING GARAGE 50FT
184'x226'
FFE = 7.00

PRIVATE
BLDG 07

COVERED

POOL
35'x20'

COVERED
PRIVATE
AMENITY
AREA

C.A. 12" WATERMAIN EASEMENT

Plotted By: Erfle, Chris Sheet Set: SAFE HARBOR RIVIERA BEACH Layout: OVERALL TREE DISPOSITION PLAN May 08, 2023 08:57:47pm K:\bca_civ\145994004 — safe harbor riviera beach\CADD\Plansheets\L-100 TREE DISPOSITION PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
KRISTEN E. ALEXA, PLA.
FL LICENSE NUMBER
LA #6667555
DATE: ____

KHA PROJECT	145994004
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	JPL
DRAWN BY	AMS
CHECKED BY	MDS

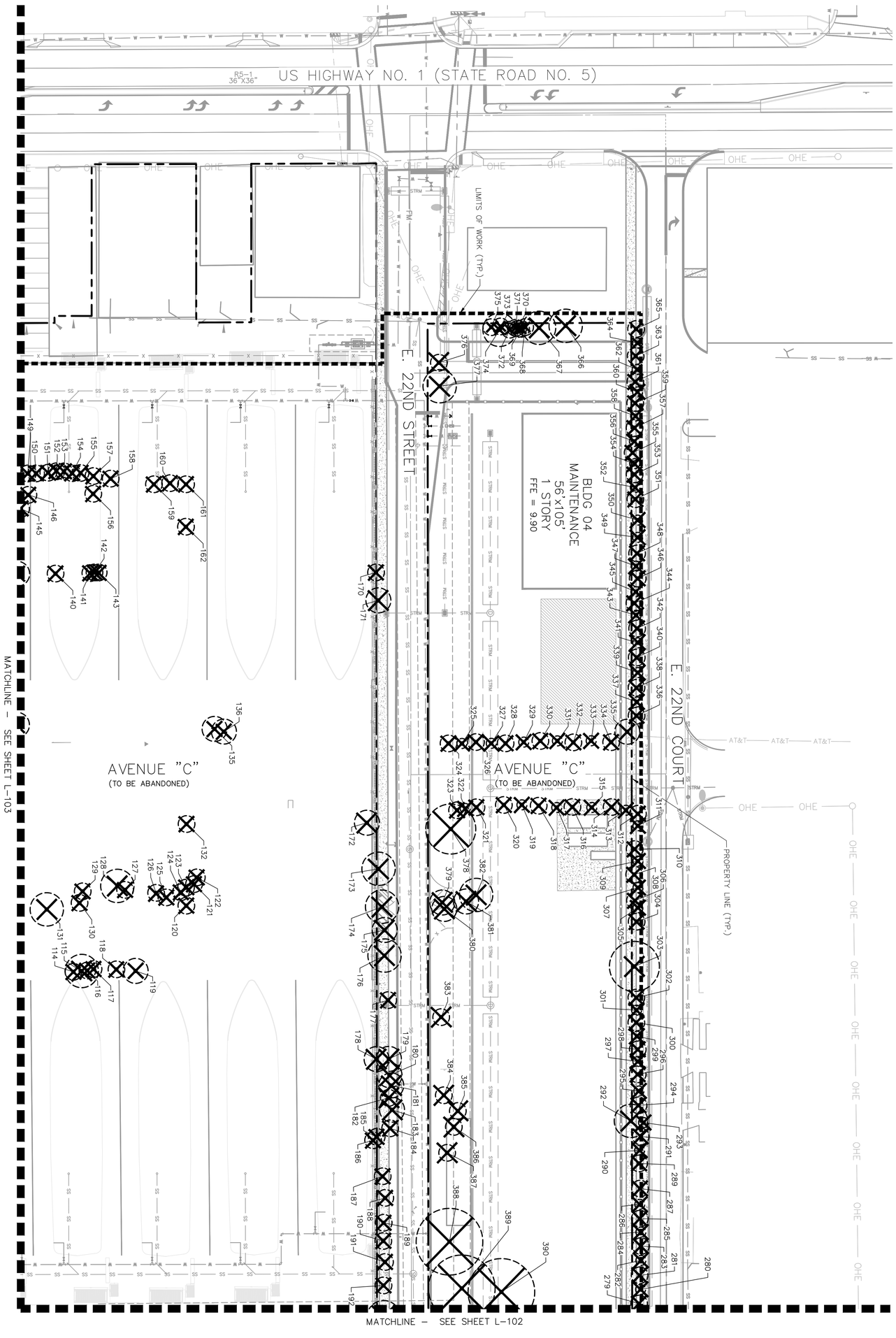
OVERALL TREE DISPOSITION PLAN

SAFE HARBOR
RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
L-100

CASE: 23-00000014
Page 178 of 332

Plotted By:Erfle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:L-101 TREE DISPOSITION PLAN May 08, 2023 06:58:00pm K:\bcd_civil\145994004 - safe harbor riviera beach\CADD\plansheets\L-100 TREE DISPOSITION PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



KEY:

TREE TO REMAIN	TREE TO BE REMOVED	TREE TO BE RELOCATED	TREE TO BE PROTECTED PER DETAIL ON SHEET L-106

GRAPHIC SCALE IN FEET
0 15 30 60

NORTH

SHEET NUMBER
L-101

SAFE HARBOR RIVIERA BEACH

PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

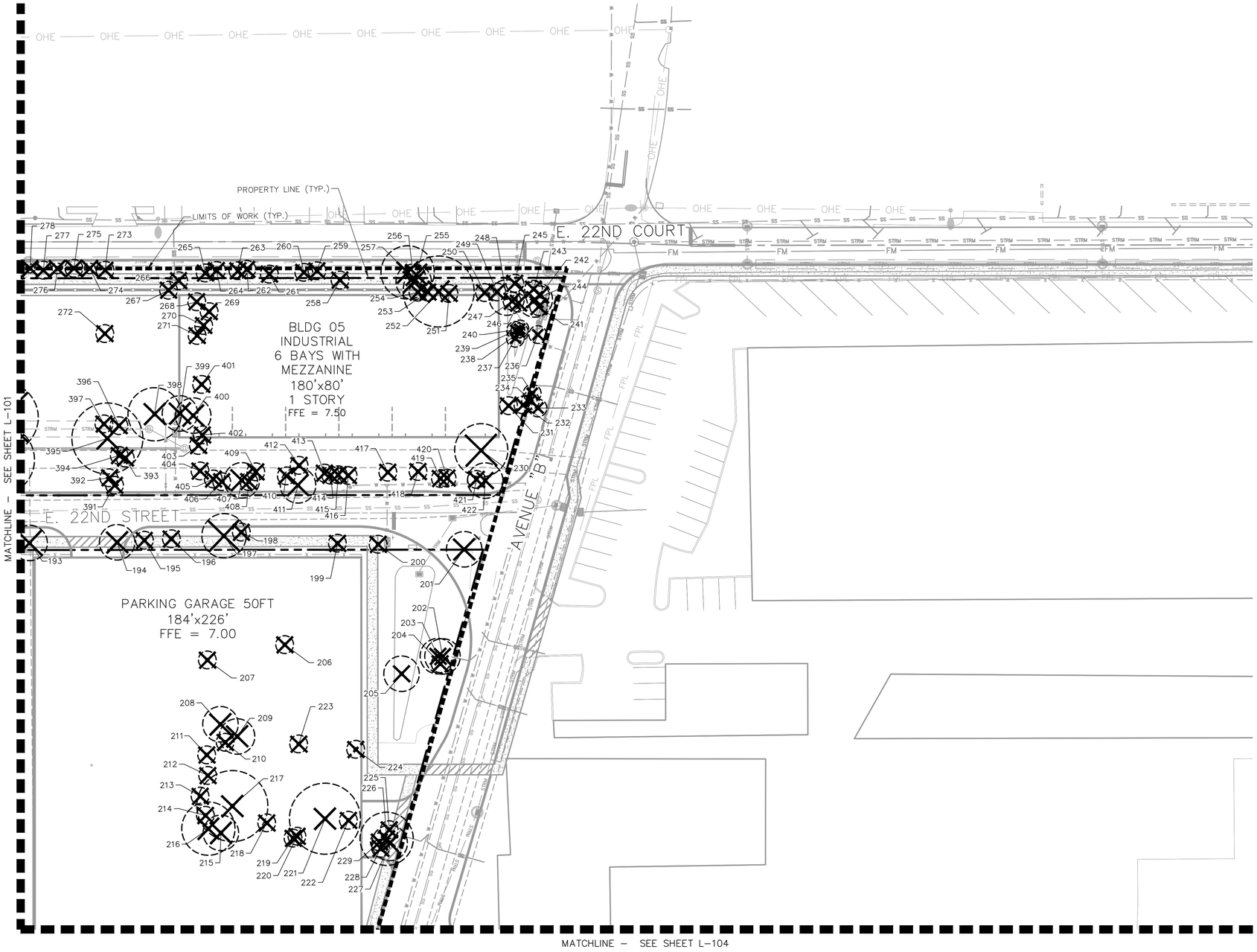
TREE DISPOSITION PLAN

KHA PROJECT	145994004
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	BM
DRAWN BY	BM
CHECKED BY	TR

LICENSED PROFESSIONAL
KRISTEN E. ALEXA, PLA.
FL LICENSE NUMBER
LA #6667555
DATE: _____

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE, SUITE 201,
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

No.	REVISIONS	DATE	BY



Plotted By:Effie, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:L-102 TREE DISPOSITION PLAN May 08, 2023 06:58:12pm K:\Ved_civil\145994004 - safe harbor riviera beach\CADD\plansheets\L-100 TREE DISPOSITION PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
KRISTEN E. ALEXA, PLA.
FL LICENSE NUMBER
LA #6667555
DATE: _____

KHA PROJECT	145994004
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	BM
DRAWN BY	BM
CHECKED BY	TR

TREE DISPOSITION PLAN

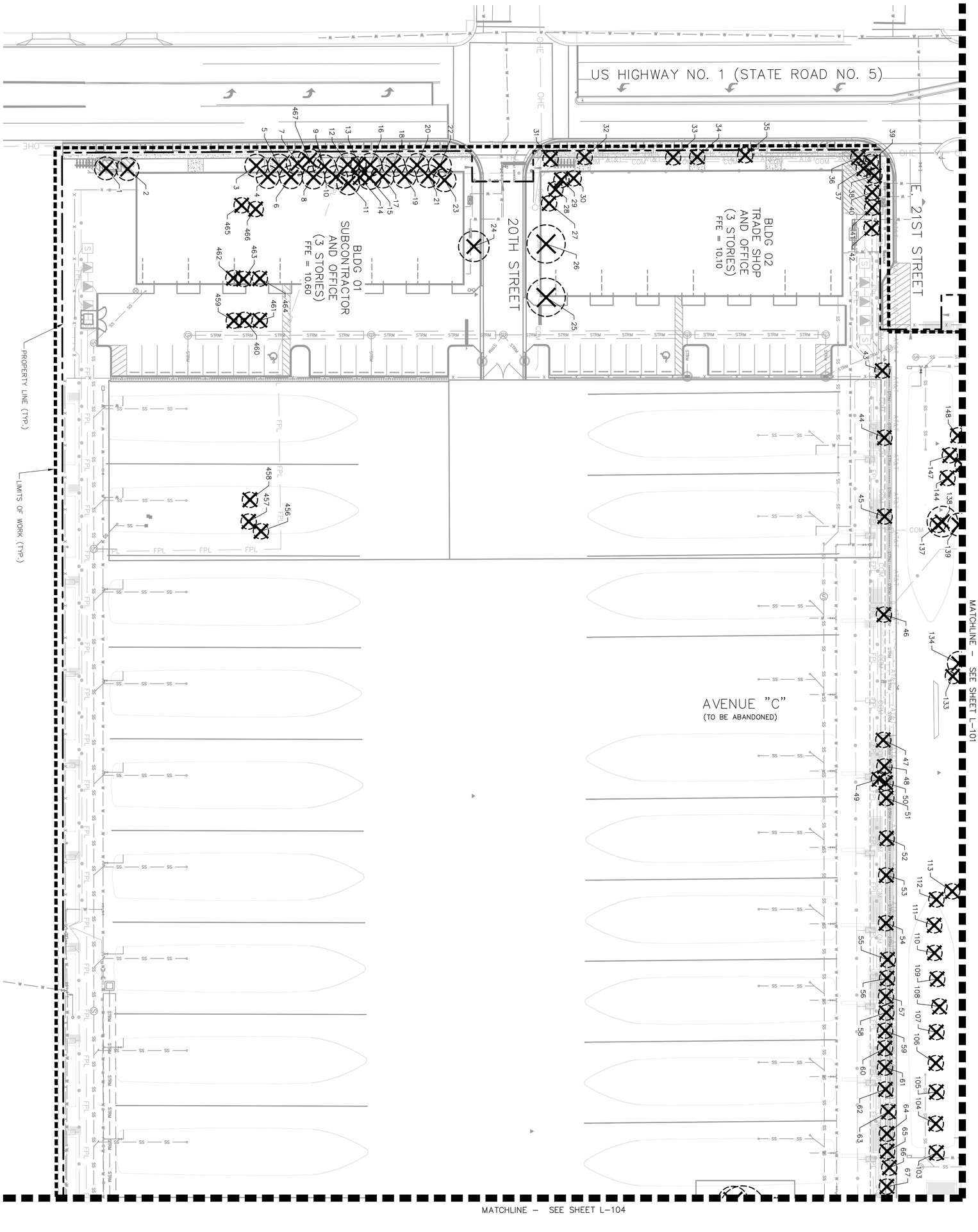
SAFE HARBOR RIVIERA BEACH

PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
L-102

CASE 2024-000014
Page 180 of 332

Plotted By:Erfle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:L-103 TREE DISPOSITION PLAN May 08, 2023 06:58:27pm K:\bcd_civil\145994004 - safe harbor riviera beach\CADD\plansheets\L-100 TREE DISPOSITION PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



KEY:

TREE TO REMAIN	TREE TO BE REMOVED	TREE TO BE RELOCATED	TREE TO BE PROTECTED PER DETAIL ON SHEET L-106

GRAPHIC SCALE IN FEET
0 15 30 60

NORTH

SHEET NUMBER							
L-103	SAFE HARBOR RIVIERA BEACH PREPARED FOR SAFE HARBOR MARINAS RIVIERA BEACH FL	TREE DISPOSITION PLAN	KHA PROJECT 145994004 DATE MAY 2023 SCALE AS SHOWN DESIGNED BY BM DRAWN BY BM CHECKED BY TR	LICENSED PROFESSIONAL KRISTEN E. ALEXA, PLA. FL LICENSE NUMBER LA #6667555 DATE: _____	Kimley»Horn	No.	REVISIONS DATE BY

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE, SUITE 201,
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

MATCHLINE – SEE SHEET L-102

MATCHLINE – SEE SHEET L-103

PROPERTY LINE (TYP.)

AVENUE "B"

TREE PROTECTION (TYP.)

LIMITS OF WORK (TYP.)

COVERED PRIVATE AMENITY AREA

PRIVATE BLDG 07

COVERED

POOL 35'x20'

LAKE WORTH

P.O.B. SOVEREIGN LAND PARCEL 1 (O.R.B. 19704, PAGE 514) EXCEPTION 24

P.O.B. SOVEREIGN LAND PARCEL 2 (O.R.B. 19704, PAGE 516) EXCEPTION 24

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

KEY:

- TREE TO REMAIN
- TREE TO BE REMOVED
- TREE TO BE RELOCATED
- TREE TO BE PROTECTED PER DETAIL ON SHEET L-106

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.

1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL

KRISTEN E. ALEXA, PLA.

FL LICENSE NUMBER
LA #6667555

DATE: _____

KHA PROJECT
145994004

DATE
MAY 2023

SCALE AS SHOWN

DESIGNED BY BM
DRAWN BY BM
CHECKED BY TR

TREE DISPOSITION PLAN

SAFE HARBOR RIVIERA BEACH

PREPARED FOR

SAFE HARBOR MARINAS

RIVIERA BEACH FL

SHEET NUMBER
L-104

Plotted By:Erik, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:L-104 TREE DISPOSITION PLAN May 08, 2023 06:58:39pm K:\bcd_civil\145994004 - safe harbor riviera beach\CADD\plansheets\L-100 TREE DISPOSITION PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

NUMBER	NAME	BOTANICAL NAME	DIAMETER (")	SPREAD (')	HEIGHT (')	CONDITION	DISPOSITION
1	Royal Palm	*Roystonea regia*	20'	15'	30'	GOOD	REMOVE
2	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
3	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
4	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
5	Royal Palm	*Roystonea regia*	20'	15'	30'	GOOD	REMOVE
6	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
7	Oleander Tree	*Nerium oleander*	5"	15'	15'	GOOD	REMOVE
8	Royal Palm	*Roystonea regia*	10'	15'	30'	FAIR	REMOVE
9	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
10	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
11	Oleander Tree	*Nerium oleander*	4"	10'	15'	GOOD	REMOVE
12	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
13	Oleander Tree	*Nerium oleander*	4"	10'	15'	GOOD	REMOVE
14	Oleander Tree	*Nerium oleander*	5"	10'	15'	FAIR	REMOVE
15	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
16	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
17	Royal Palm	*Roystonea regia*	20'	15'	30'	GOOD	REMOVE
18	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
19	Royal Palm	*Roystonea regia*	20'	15'	30'	GOOD	REMOVE
20	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
21	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
22	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
23	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
24	Gumbo Limbo	*Bursera simaruba*	10"	20'	25'	GOOD	REMOVE
25	Mahogany Tree	*Swietenia mahogani*	22"	25'	25'	GOOD	REMOVE
26	Mahogany Tree	*Swietenia mahogani*	22"	25'	25'	GOOD	REMOVE
27	Cabbage Palm	*Sabal palmetto*	15'	10'	25'	GOOD	REMOVE
28	Oleander Tree	*Nerium oleander*		10'	10'	GOOD	REMOVE
29	Oleander Tree	*Nerium oleander*		10'	10'	GOOD	REMOVE
30	Oleander Tree	*Nerium oleander*		10'	10'	GOOD	REMOVE
31	Cabbage Palm	*Sabal palmetto*	15'	10'	25'	GOOD	REMOVE
32	Cabbage Palm	*Sabal palmetto*	15'	10'	25'	GOOD	REMOVE
33	Cabbage Palm	*Sabal palmetto*	15'	10'	25'	GOOD	REMOVE
34	Oleander Tree	*Nerium oleander*	4"	10'	10'	GOOD	REMOVE
35	Cabbage Palm	*Sabal palmetto*	15'	10'	25'	FAIR	REMOVE
36	Hibiscus	*Hibiscus rosa-sinensis*	3"	10'	10'	FAIR	REMOVE
37	Hibiscus	*Hibiscus rosa-sinensis*	3"	10'	10'	FAIR	REMOVE
38	Hibiscus	*Hibiscus rosa-sinensis*	3"	10'	10'	FAIR	REMOVE
39	Cabbage Palm	*Sabal palmetto*	15'	10'	25'	GOOD	REMOVE
40	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	4"	10'	10	GOOD	REMOVE
41	Cabbage Palm	*Sabal palmetto*	15'	10'	25'	GOOD	REMOVE
42	Jatropha	*Jatropha integerirma*	4"	10'	10'	GOOD	REMOVE
43	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	4"	10'	10	FAIR	REMOVE
44	Hibiscus	*Hibiscus rosa-sinensis*	4"	10'	10'	FAIR	REMOVE
45	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	10'	10	FAIR	REMOVE
46	Hibiscus	*Hibiscus rosa-sinensis*	3"	10'	10'	FAIR	REMOVE
47	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	10'	10	FAIR	REMOVE
48	Hibiscus	*Hibiscus rosa-sinensis*	3"	10'	10'	FAIR	REMOVE
49	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	10'	10	FAIR	REMOVE
50	Hibiscus	*Hibiscus rosa-sinensis*	3"	10'	10'	FAIR	REMOVE
51	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
52	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
53	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
54	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
55	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
56	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
57	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
58	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
59	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
60	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
61	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
62	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
63	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
64	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
65	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
66	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
67	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
68	Christmas Palm	*Adonidia merrillii*	10'	10'	15'	GOOD	REMOVE
69	Christmas Palm	*Adonidia merrillii*	10'	10'	15'	GOOD	REMOVE
70	Christmas Palm	*Adonidia merrillii*	10'	10'	15'	GOOD	REMOVE
71	Christmas Palm	*Adonidia merrillii*	10'	10'	15'	GOOD	REMOVE
72	Christmas Palm	*Adonidia merrillii*	10'	10'	15'	GOOD	REMOVE
73	Christmas Palm	*Adonidia merrillii*	10'	10'	15'	GOOD	REMOVE
74	Christmas Palm	*Adonidia merrillii*	10'	10'	15'	GOOD	REMOVE
75	Christmas Palm	*Adonidia merrillii*	10'	10'	15'	GOOD	REMOVE
76	Christmas Palm	*Adonidia merrillii*	10'	10'	15'	GOOD	REMOVE
77	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	POOR	REMOVE
78	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
79	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
80	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
81	Live Oak	*Quercus virginiana*	32"	30'	35'	FAIR	REMOVE
82	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
83	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
84	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
85	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
86	Mango Tree	*Mangifera indica*	10"	20'	25'	GOOD	REMOVE
87	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
88	Mango Tree	*Mangifera indica*	11"	10'	25'	FAIR	REMOVE
89	Mango Tree	*Mangifera indica*	16"	30'	25'	GOOD	REMOVE
90	Mango Tree	*Mangifera indica*	17"	20'	25'	GOOD	REMOVE
91	Mango Tree	*Mangifera indica*	14"	20'	25'	GOOD	REMOVE
92	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
93	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	FAIR	REMOVE
94	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	FAIR	REMOVE
95	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
96	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
97	Live Oak	*Quercus virginiana*	18"	40'	30'	GOOD	REMOVE
98	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
99	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
100	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE

NUMBER	NAME	BOTANICAL NAME	DIAMETER (")	SPREAD (')	HEIGHT (')	CONDITION	DISPOSITION
101	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
102	Frangipani	*Plumeria alba*	6"	10'	20'	FAIR	REMOVE
103	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
104	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
105	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
106	Cabbage Palm	*Sabal palmetto*	16'	10'	20'	GOOD	REMOVE
107	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
108	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
109	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
110	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
111	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
112	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
113	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
114	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
115	Mango Tree	*Mangifera indica*	17"	20'	25'	GOOD	REMOVE
116	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	FAIR	REMOVE
117	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
118	Mango Tree	*Mangifera indica*	8"	10'	20'	GOOD	REMOVE
119	Mango Tree	*Mangifera indica*	15"	15'	20'	GOOD	REMAIN
120	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
121	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
122	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
123	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
124	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
125	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	FAIR	REMOVE
126	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	FAIR	REMOVE
127	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	FAIR	REMOVE
128	Live Oak	*Quercus virginiana*	13"	20'	26'	FAIR	REMOVE
129	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
130	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
131	Banyan Tree	*Ficus benghalensis*	28"	20'	25'	PROHIBITED	REMOVE
132	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
133	Solitaire Palm	*Pttychosperma elegans*	5'	10'	10'	GOOD	REMOVE
134	Gumbo Limbo	*Bursera simaruba*	10"	15'	15'	GOOD	REMOVE
135	Coconut Palm	*Cocos nucifera*	15'	15'	25'	GOOD	REMOVE
136	Coconut Palm	*Cocos nucifera*	15'	15'	25'	GOOD	REMOVE
137	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
138	Mango Tree	*Mangifera indica*	15"	20'	20'	GOOD	REMOVE
139	Coconut Palm	*Cocos nucifera*	20'	15'	30'	GOOD	REMOVE
140	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
141	Mango Tree	*Mangifera indica*	8"	10'	20'	GOOD	REMOVE
142	Mango Tree	*Mangifera indica*	9"	10'	20'	GOOD	REMOVE
143	Mango Tree	*Mangifera indica*	9"	10'	20'	GOOD	REMOVE
144	Mexican Fan Palm	*Washingtonia ribusta*	20'	10'	25'	GOOD	REMOVE
145	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
146	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
147	Mexican Fan Palm	*Washingtonia ribusta*	5'	10'	10'	GOOD	REMOVE
148	Palm	*Unknown*	5'	10'	10'	FAIR	REMOVE
149	Palm	*Unknown*	5'	10'	10'	FAIR	REMOVE
150	Palm	*Unknown*	5'	10'	10'	FAIR	REMOVE
151	Palm	*Unknown*	5'	10'	10'	FAIR	REMOVE
152	Palm	*Unknown*	5'	10'	10'	FAIR	REMOVE
153	Palm	*Unknown*	5'	10'	10'	FAIR	REMOVE
154	Palm	*Unknown*	5'	10'	10'	FAIR	REMOVE
155	Palm	*Unknown*	5'	10'	10'	FAIR	REMOVE
156	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
157	Unknown	*Unknown*				POOR	REMOVE
158	Unknown	*Unknown*				POOR	REMOVE
159	Queen Palm	*Syagrus romanzoffiana*	10'	10'	15'	FAIR	REMOVE
160	Queen Palm	*Syagrus romanzoffiana*	15'	10'	20'	FAIR	REMOVE
161	Queen Palm	*Syagrus romanzoffiana*	15'	10'	20'	FAIR	REMOVE
162	Solitaire Palm	*Pttychosperma elegans*	10'	10'	10'	GOOD	REMOVE
170	Areca Palm	*Dypsis lutescens*		10'	15'	GOOD	REMOVE
171	Live Oak	*Quercus virginiana*	12"	20'	20'	GOOD	REMOVE
172	Royal Poinciana	*Delonix regia*	10"	15'	20'	GOOD	REMOVE
173	Japanese Blueberry	*Eleocarpus deipiens*	17"	20'	20'	GOOD	REMOVE
174	Gumbo Limbo	*Bursera simaruba*	12"	20'	20'	GOOD	REMOVE
175	Gumbo Limbo	*Bursera simaruba*	16"	15'	20'	POOR	REMOVE
176	Gumbo Limbo	*Bursera simaruba*	11"	20'	20'	FAIR	REMOVE
177	Coconut Palm	*Cocos nucifera*	15'	15'	25'	FAIR	REMOVE
178	Coconut Palm	*Cocos nucifera*	15'	15'	25'	GOOD	REMOVE
179	Coconut Palm	*Cocos nucifera*	15'	15'	25'	GOOD	REMOVE
180	Coconut Palm	*Cocos nucifera*	10'	15'	20'	GOOD	REMOVE
181	Coconut Palm	*Cocos nucifera*	10'	15'	20'	GOOD	REMOVE
182	Jatropha	*Jatropha integeririma*	4"	10'	10'	GOOD	REMOVE
183	Coconut Palm	*Cocos nucifera*	10'	15'	20'	GOOD	REMOVE
184	Jatropha	*Jatropha integeririma*	4"	10'	10'	GOOD	REMOVE
185	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
186	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
187	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
188	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
189	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
190	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
191	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
192	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
193	Gumbo Limbo	*Bursera simaruba*	12"	20'	20'	FAIR	REMOVE
194	Gumbo Limbo	*Bursera simaruba*	10"	20'	20'	GOOD	REMOVE
195	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
196	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
197	Live Oak	*Quercus virginiana*	17"	25'	30'	GOOD	REMOVE
198	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
199	Unknown	*Unknown*	6"	10'	10'	FAIR	REMOVE
200	Unknown	*Unknown*	8"	10'	10'	FAIR	REMOVE

Plotted By:Erfle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:L-105 TREE DISPOSITION PLAN May 08, 2023 08:58:41pm K:\Ved_civil\145994004 - safe harbor riviera beach\CAD\Sheets\L-105 TREE DISPOSITION PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE. SUITE 201,
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
KRISTEN E. ALEXA, PLA.
FL LICENSE NUMBER
LA #6667555
DATE: _____

KHA PROJECT 145994004
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

TREE DISPOSITION PLAN

SAFE HARBOR RIVIERA BEACH

PREPARED FOR
SAFE HARBOR MARINAS FL
RIVIERA BEACH

SHEET NUMBER
L-105

NUMBER	NAME	BOTANICAL NAME	DIAMETER (")	SPREAD (')	HEIGHT (')	CONDITION	DISPOSITION
201	Unknown	*Unknown*	14"	20'	20'	FAIR	REMOVE
202	Live Oak	*Quercus virginiana*	11"	20'	20'	FAIR	REMOVE
203	Live Oak	*Quercus virginiana*	14"	20'	20'	FAIR	REMOVE
204	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
205	Live Oak	*Quercus virginiana*	12"	20'	20'	GOOD	REMOVE
206	Unknown	*Unknown*	3"	10'	20'	FAIR	REMOVE
207	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
208	Mango Tree	*Mangifera indica*	12"	20'	25'	GOOD	REMOVE
209	Mango Tree	*Mangifera indica*	15"	20'	25'	GOOD	REMOVE
210	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	POOR	REMOVE
211	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	FAIR	REMOVE
212	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
213	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
214	Cabbage Palm	*Sabal palmetto*	5'	10'	10'	FAIR	REMOVE
215	Cabbage Palm	*Sabal palmetto*	5'	10'	10'	FAIR	REMOVE
216	Live Oak	*Quercus virginiana*	20"	30'	30'	GOOD	REMOVE
217	Live Oak	*Quercus virginiana*	17"	40'	30'	GOOD	REMOVE
218	Cabbage Palm	*Sabal palmetto*	5'	10'	10'	FAIR	REMOVE
219	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
220	Cabbage Palm	*Sabal palmetto*	16'	10'	20'	GOOD	REMOVE
221	Live Oak	*Quercus virginiana*	24"	40'	30'	GOOD	REMOVE
222	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	FAIR	REMOVE
223	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
224	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
225	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
226	Live Oak	*Quercus virginiana*	15"	30'	30'	FAIR	REMOVE
227	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
228	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
229	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
230	Live Oak	*Quercus virginiana*	18"	30'	30'	GOOD	REMOVE
231	Cabbage Palm	*Sabal palmetto*	15'	10'	25'	GOOD	REMOVE
232	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
233	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
234	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
235	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
236	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
237	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
238	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
239	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
240	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
241	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
242	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
243	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
244	Unknown	*Unknown*	10"	20'	20'	POOR	REMOVE
245	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
246	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
247	Umbrella Tree	*Schefflera actinophylla*	16"	10'	15'	INVASIVE	REMOVE
248	Gumbo Limbo	*Bursera simaruba*	11"	20'	20'	GOOD	REMOVE
249	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
250	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
251	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
252	Mango Tree	*Mangifera indica*	21"	40'	30'	GOOD	REMOVE
253	Areca Palm	*Dypsis lutescens*		10'	10'	FAIR	REMOVE
254	Umbrella Tree	*Schefflera actinophylla*		10'	15'	GOOD	REMOVE
255	Mango Tree	*Mangifera indica*	14"	20'	30'	INVASIVE	REMOVE
256	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
257	Live Oak	*Quercus virginiana*	12"	30'	30'	FAIR	REMOVE
258	Banyan Tree	*Ficus benghalensis*	6"	10'	15'	PROHIBITED	REMOVE
259	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
260	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
261	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
262	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
263	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
264	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
265	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
266	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
267	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
268	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
269	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
270	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
271	Unknown	*Unknown*		10'	15'	GOOD	REMOVE
272	Cabbage Palm	*Sabal palmetto*	10'	10'	20'	GOOD	REMOVE
273	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
274	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	2"	6'	10'	GOOD	REMOVE
275	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
276	Unknown	*Unknown*	3"	6'	10'	FAIR	REMOVE
277	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
278	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	2"	5'	10'	GOOD	REMOVE
279	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
280	Unknown	*Unknown*	3"	6'	10'	GOOD	REMOVE
281	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
282	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
283	Cabbage Palm	*Sabal palmetto*	10'	10'	10'	GOOD	REMOVE
284	Unknown	*Unknown*	2"	6'	10'	FAIR	REMOVE
285	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
286	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
287	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
288	Unknown	*Unknown*	3"	6'	10'	GOOD	REMOVE
289	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
290	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	2"	6'	10'	GOOD	REMOVE
291	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
292	Gumbo Limbo	*Bursera simaruba*	10"	20'	20'	GOOD	REMOVE
293	Unknown	*Unknown*	3"	6'	10'	GOOD	REMOVE
294	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
295	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	2"	6'	10'	GOOD	REMOVE
296	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
297	Unknown	*Unknown*	3"	6'	10'	GOOD	REMOVE
298	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
299	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	2"	6'	10'	GOOD	REMOVE
300	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE

NUMBER	NAME	BOTANICAL NAME	DIAMETER (")	SPREAD (')	HEIGHT (')	CONDITION	DISPOSITION
301	Unknown	*Unknown*	3"	6'	10'	GOOD	REMOVE
302	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
303	Live Oak	*Quercus virginiana*	12"	30'	30'	GOOD	REMOVE
304	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
305	Unknown	*Unknown*	3"	6'	10'	FAIR	REMOVE
306	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
307	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
308	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
309	Unknown	*Unknown*	3"	6'	10'	GOOD	REMOVE
310	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
311	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
312	Cabbage Palm	*Sabal palmetto*	10'	10'	10'	DEAD	REMOVE
313	Unknown	*Unknown*	3"	6'	10'	FAIR	REMOVE
314	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
315	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
316	Cabbage Palm	*Sabal palmetto*	10'	10'	10'	GOOD	REMOVE
317	Unknown	*Unknown*	3"	6'	10'	GOOD	REMOVE
318	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
319	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
320	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
321	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
322	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
323	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
324	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
325	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
326	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
327	Unknown	*Unknown*	3"	6'	10'	GOOD	REMOVE
328	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
329	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
330	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
331	Unknown	*Unknown*	4"	6'	10'	GOOD	REMOVE
332	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
333	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
334	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
335	Unknown	*Unknown*	5"	15'	15'	GOOD	REMOVE
336	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
337	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
338	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
339	Unknown	*Unknown*	4"	6'	10'	GOOD	REMOVE
340	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
341	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
342	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
343	Unknown	*Unknown*	4"	6'	10'	GOOD	REMOVE
344	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
345	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
346	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
347	Unknown	*Unknown*	5"	6'	10'	FAIR	REMOVE
348	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
349	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
350	Unknown	*Unknown*	4"	6'	10'	GOOD	REMOVE
351	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
352	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
353	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
354	Unknown	*Unknown*	6"	6'	10'	GOOD	REMOVE
355	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
356	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
357	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
358	Unknown	*Unknown*	5"	6'	10'	GOOD	REMOVE
359	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
360	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
361	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
362	Unknown	*Unknown*	3"	6'	10'	GOOD	REMOVE
363	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
364	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
365	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
366	Mango Tree	*Mangifera indica*		20'	25'		REMOVE
367	Mango Tree	*Mangifera indica*		20'	25'		REMOVE
368	Christmas Palm	*Adonidia merrillii*	15'	10'	20'		REMOVE
369	Christmas Palm	*Adonidia merrillii*	15'	10'	20'		REMOVE
370	Christmas Palm	*Adonidia merrillii*	15'	10'	20'		REMOVE
371	Christmas Palm	*Adonidia merrillii*	15'	10'	20'		REMOVE
372	Christmas Palm	*Adonidia merrillii*	10'	10'	15'		REMOVE
373	Christmas Palm	*Adonidia merrillii*	10'	10'	15'		REMOVE
374	Live Oak	*Quercus virginiana*	9"	20'	25'		REMOVE
375	Christmas Palm	*Adonidia merrillii*	10'	10'	15'		REMOVE
376	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
377	Gumbo Limbo	*Bursera simaruba*	16"	20'	25'	GOOD	REMOVE
378	Live Oak	*Quercus virginiana*	10"	30'	30'	GOOD	REMOVE
379	Live Oak	*Quercus virginiana*	5"	15'	20'	FAIR	REMOVE
380	Live Oak	*Quercus virginiana*	7"	15'	20'	FAIR	REMOVE
381	Live Oak	*Quercus virginiana*	11"	15'	25'	GOOD	REMOVE
382	Live Oak	*Quercus virginiana*	13"	20'	25'	GOOD	REMOVE
383	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
384	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
385	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
386	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
387	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
388	Live Oak	*Quercus virginiana*	22"	40'	30'	GOOD	REMOVE
389	Live Oak	*Quercus virginiana*	24"	40'	30'	GOOD	REMOVE
390	Live Oak	*Quercus virginiana*	22"	40'	30'	GOOD	REMOVE
391	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
392	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
393	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
394	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
395	Live Oak	*Quercus virginiana*	42"	40'	30'	GOOD	REMOVE
396	Live Oak	*Quercus virginiana*	5"	10'	15'	FAIR	REMOVE
397	Live Oak	*Quercus virginiana*	7"	10'	15'	FAIR	REMOVE
398	Mango Tree	*Mangifera indica*	12"	30'	30'	GOOD	REMOVE
399	Umbrella Tree	*Schefflera actinophylla*	21"	20'	20'	INVASIVE	REMOVE
400	Mango Tree	*Mangifera indica*	14"	20'	25'	POOR	REMOVE

Plotted By:Erfle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:L-106 TREE DISPOSITION PLAN.dwg May 08, 2023 08:58:44pm K:\wpb_civil\145994004 - safe harbor riviera beach\CAD\Spinsheets\L-100 TREE DISPOSITION PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
KRISTEN E. ALEXA, PLA.
FL LICENSE NUMBER
LA #6667555
DATE: _____

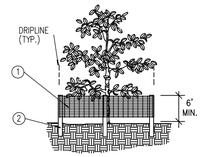
KHA PROJECT 145994004
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

TREE DISPOSITION PLAN

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
L-106

NUMBER	NAME	BOTANICAL NAME	DIAMETER (")	SPREAD (')	HEIGHT (')	CONDITION	DISPOSITION
401	**Cabbage Palm**	***Sabal palmetto***	**10'**	**10'**	**15'**	**GOOD**	**REMOVE**
402	**Cabbage Palm**	***Sabal palmetto***	**5'**	**10'**	**10'**	**GOOD**	**REMOVE**
403	**Cabbage Palm**	***Sabal palmetto***	**15'**	**10'**	**20'**	**GOOD**	**REMOVE**
404	**Cabbage Palm**	***Sabal palmetto***	**15'**	**10'**	**20'**	**GOOD**	**REMOVE**
405	**Cabbage Palm**	***Sabal palmetto***	**10'**	**10'**	**15'**	**GOOD**	**REMOVE**
406	**Cabbage Palm**	***Sabal palmetto***	**10'**	**10'**	**15'**	**GOOD**	**REMOVE**
407	**Gumbo Limbo**	***Bursera simaruba***	**11"**	**20'**	**25'**	**GOOD**	**REMOVE**
408	**Cabbage Palm**	***Sabal palmetto***	**15'**	**10'**	**20'**	**GOOD**	**REMOVE**
409	**Cabbage Palm**	***Sabal palmetto***	**5'**	**10'**	**10'**	**GOOD**	**REMOVE**
410	**Cabbage Palm**	***Sabal palmetto***	**15'**	**10'**	**20'**	**GOOD**	**REMOVE**
411	**Live Oak**	***Quercus virginiana***	**17"**	**20'**	**30'**	**GOOD**	**REMOVE**
412	**Cabbage Palm**	***Sabal palmetto***	**10'**	**10'**	**15'**	**GOOD**	**REMOVE**
413	**Cabbage Palm**	***Sabal palmetto***	**5'**	**10'**	**10'**	**GOOD**	**REMOVE**
414	**Cabbage Palm**	***Sabal palmetto***	**5'**	**10'**	**10'**	**GOOD**	**REMOVE**
415	**Cabbage Palm**	***Sabal palmetto***	**5'**	**10'**	**10'**	**GOOD**	**REMOVE**
416	**Cabbage Palm**	***Sabal palmetto***	**5'**	**10'**	**10'**	**GOOD**	**REMOVE**
417	**Cabbage Palm**	***Sabal palmetto***	**5'**	**10'**	**10'**	**GOOD**	**REMOVE**
418	**Cabbage Palm**	***Sabal palmetto***	**10'**	**10'**	**15'**	**GOOD**	**REMOVE**
419	**Cabbage Palm**	***Sabal palmetto***	**10'**	**10'**	**15'**	**GOOD**	**REMOVE**
420	**Cabbage Palm**	***Sabal palmetto***	**10'**	**10'**	**15'**	**GOOD**	**REMOVE**
421	**Cabbage Palm**	***Sabal palmetto***	**5'**	**10'**	**10'**	**GOOD**	**REMOVE**
422	**Gumbo Limbo**	***Bursera simaruba***	**16"**	**20'**	**25'**	**GOOD**	**REMOVE**
423	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMAIN
424	Coconut Palm	*Cocos nucifera*	15'	15'	25'	GOOD	REMAIN
425	Jatropha	*Jatropha integeririma*	3"	6'	10'	FAIR	REMAIN
426	Jatropha	*Jatropha integeririma*	3"	6'	10'	GOOD	REMAIN
427	Coconut Palm	*Cocos nucifera*	15'	15'	25'	GOOD	REMAIN
428	Jatropha	*Jatropha integeririma*	3"	6'	10'	GOOD	REMAIN
429	Jatropha	*Jatropha integeririma*	3"	6'	10'	GOOD	REMAIN
430	Coconut Palm	*Cocos nucifera*	15'	15'	25'	GOOD	REMAIN
431	Coconut Palm	*Cocos nucifera*	20'	15'	30'	GOOD	REMAIN
432	Coconut Palm	*Cocos nucifera*	20'	15'	30'	GOOD	REMAIN
433	Coconut Palm	*Cocos nucifera*	20'	15'	30'	GOOD	REMAIN
434	Live Oak	*Quercus virginiana*	10"	20'	25'	GOOD	REMAIN
435	Jatropha	*Jatropha integeririma*	3"	10'	10'	GOOD	REMAIN
436	Pygmy Date Palm	*Phoenix roebelenii*	3'	10'	10'	GOOD	REMAIN
437	Live Oak	*Quercus virginiana*	8"	20'	20'	FAIR	REMAIN
438	Live Oak	*Quercus virginiana*	10"	20'	20'	FAIR	REMAIN
439	Coconut Palm	*Cocos nucifera*	10'	15'	20'	GOOD	REMAIN
440	Coconut Palm	*Cocos nucifera*	10'	15'	20'	GOOD	REMAIN
441	Coconut Palm	*Cocos nucifera*	10'	15'	20'	GOOD	REMAIN
442	Coconut Palm	*Cocos nucifera*	10'	15'	20'	GOOD	REMAIN
443	Coconut Palm	*Cocos nucifera*	10'	15'	20'	GOOD	REMAIN
444	Coconut Palm	*Cocos nucifera*	10'	15'	20'	GOOD	REMAIN
445	Coconut Palm	*Cocos nucifera*	10'	15'	20'	GOOD	REMAIN
446	Coconut Palm	*Cocos nucifera*	10'	15'	20'	GOOD	REMAIN
447	**Coconut Palm**	***Cocos nucifera***	**10'**	**15'**	**20'**	**GOOD**	**REMOVE**
448	**Coconut Palm**	***Cocos nucifera***	**10'**	**15'**	**20'**	**GOOD**	**REMOVE**
449	**Coconut Palm**	***Cocos nucifera***	**10'**	**15'**	**20'**	**GOOD**	**REMOVE**
450	**Coconut Palm**	***Cocos nucifera***	**10'**	**15'**	**20'**	**GOOD**	**REMOVE**
451	**Coconut Palm**	***Cocos nucifera***	**10'**	**15'**	**20'**	**GOOD**	**REMOVE**
452	**Coconut Palm**	***Cocos nucifera***	**10'**	**15'**	**20'**	**GOOD**	**REMOVE**
453	**Coconut Palm**	***Cocos nucifera***	**10'**	**15'**	**20'**	**GOOD**	**REMOVE**
454	**Coconut Palm**	***Cocos nucifera***	**10'**	**15'**	**20'**	**GOOD**	**REMOVE**
455	**Coconut Palm**	***Cocos nucifera***	**10'**	**15'**	**20'**	**GOOD**	**REMOVE**
456	**Mexican Fan Palm**	***Washingtonia ribusta***	**15'**	**10'**	**20'**	**GOOD**	**REMOVE**
457	**Mexican Fan Palm**	***Washingtonia ribusta***	**15'**	**10'**	**20'**	**GOOD**	**REMOVE**
458	**Mexican Fan Palm**	***Washingtonia ribusta***	**20'**	**10'**	**25'**	**GOOD**	**REMOVE**
459	**Mexican Fan Palm**	***Washingtonia ribusta***	**20'**	**10'**	**25'**	**GOOD**	**REMOVE**
460	**Mexican Fan Palm**	***Washingtonia ribusta***	**20'**	**10'**	**25'**	**GOOD**	**REMOVE**
461	**Mexican Fan Palm**	***Washingtonia ribusta***	**20'**	**10'**	**25'**	**GOOD**	**REMOVE**
462	**Mexican Fan Palm**	***Washingtonia ribusta***	**20'**	**10'**	**25'**	**GOOD**	**REMOVE**
463	**Mexican Fan Palm**	***Washingtonia ribusta***	**20'**	**10'**	**25'**	**GOOD**	**REMOVE**
464	**Mexican Fan Palm**	***Washingtonia ribusta***	**20'**	**10'**	**25'**	**GOOD**	**REMOVE**
465	**Jatropha**	***Jatropha integeririma***	**3"**	**10'**	**10'**	**FAIR**	**REMOVE**
466	**Jatropha**	***Jatropha integeririma***	**3"**	**10'**	**10'**	**FAIR**	**REMOVE**
467	**Unknown**	***Unknown***	**3"**	**10'**	**10'**	**DEAD**	**REMOVE**



1. 6'H "PERIMETER PLUS" CONSTRUCTION FENCE BY CONWED PLASTICS OR OWNER'S REPRESENTATIVE APPROVED EQUAL. SUBMIT PRODUCT INFORMATION FOR APPROVAL PRIOR TO INSTALLATION.
2. 8' TALL METAL "T" POSTS OR 2" x 2" X 8' PRESSURE TREATED WOOD POSTS WITH 24" BURIAL BELOW GRADE.

INSTALLATION NOTES:

A. POST SELECTION SHOULD BE BASED ON EXPECTED STRENGTH NEEDS AND THE LENGTH OF TIME FENCE WILL BE IN PLACE. FLEXIBLE FIBERGLASS ROD POSTS ARE RECOMMENDED FOR PARKS, athletic EVENTS AND CROWD CONTROL INSTALLATIONS. METAL "T" POSTS OR TREATED WOOD POSTS ARE TYPICALLY USED FOR CONSTRUCTION AND OTHER APPLICATIONS.

B. POSTS SHOULD BE DRIVEN INTO THE GROUND TO A DEPTH OF 1/4 OF THE HEIGHT OF THE POST. FOR EXAMPLE, A 8' POST SHOULD BE SET AT LEAST 2' INTO THE GROUND.

C. SPACE POSTS EVERY 6' (MIN.) TO 8' (MAX.).

D. SECURE FENCING TO POST WITH NYLON CABLE TIES (AVAILABLE FROM CONWED PLASTICS). WOOD STRIPS MAY BE ALSO BE USED TO PROVIDE ADDITIONAL SUPPORT AND PROTECTION BETWEEN TIES AND POSTS.

NOTE: IF WIRE TIES ARE USED, AVOID DIRECT CONTACT WITH FENCE. WIRE MAY DAMAGE FENCE OVER TIME.

A Tree/Shrub Protector
Barrier Detail

NTS

TREE DISPOSITION SUMMARY:

TOTAL TREES PROTECTED	8	
TOTAL TREES REMOVED		146
TOTAL PALMS PROTECTED	16	
TOTAL PALMS REMOVED		289

NO.	REVISIONS	DATE	BY

Kimley»Horn

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
KRISTEN E. ALEXA, PLA.
FL LICENSE NUMBER
LA #6667555
DATE: ____

KHA PROJECT	145994004
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	JPL
DRAWN BY	AMS
CHECKED BY	MDS

TREE DISPOSITION PLAN

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
L-107

Plotted By:Effie Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:L-107 TREE DISPOSITION PLAN May 08, 2023 06:58:54pm K:\Ved_civil\145994004 — safe harbor riviera beach\CADD\plansheets\L-100 TREE DISPOSITION PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc

Plotted By:Effie, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:L-200 PHASE 1 LANDSCAPE KEY MAP May 08, 2023 07:02:08pm K:\bcd_civil\145994004 — safe harbor riviera beach\CADD\plansheets\L-200 LANDSCAPE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

SHEET L-201

SHEET L-202

SHEET L-203

SHEET L-204

NORTH

GRAPHIC SCALE IN FEET
0 30 60 120

LIMITS OF WORK (TYP.)

E. 22ND COURT

E. 21ST STREET

US HIGHWAY NO. 1 (STATE ROAD NO. 5)

AVENUE "B"

AVENUE "C"

AVENUE "D"

20TH STREET
(TO BE ABANDONED)

BLDG 04
MAINTENANCE
56'x105'
1 STORY
FFE = 9.90

BLDG 05
INDUSTRIAL
6 BAYS WITH
MEZZANINE
180'x80'
1 STORY
FFE =

BLDG 02
TRADE SHOP
AND OFFICE
(3 STORIES)
FFE = 10.10

BLDG 01
SUBCONTRACTOR
AND OFFICE
(3 STORIES)
FFE = 9.60

LANDSCAPE IN THIS AREA TO BE INSTALLED WITH PHASES 1 AND 2 OF THE SITE CIVIL IMPROVEMENTS. SEE SHEETS C -101 AND C-102.

LANDSCAPE IN THIS AREA TO BE INSTALLED WITH PHASES 1 AND 2 OF THE SITE CIVIL IMPROVEMENTS. SEE SHEETS C -103, C-104 AND C-105.

EXISTING BUILDING DEMOLITION TO HAPPEN PER PHASE 3 OF CIVIL PHASING PLAN.

PROPERTY LINE (TYP.)

CA. 12' WATERMAIN EASEMENT

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.

1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

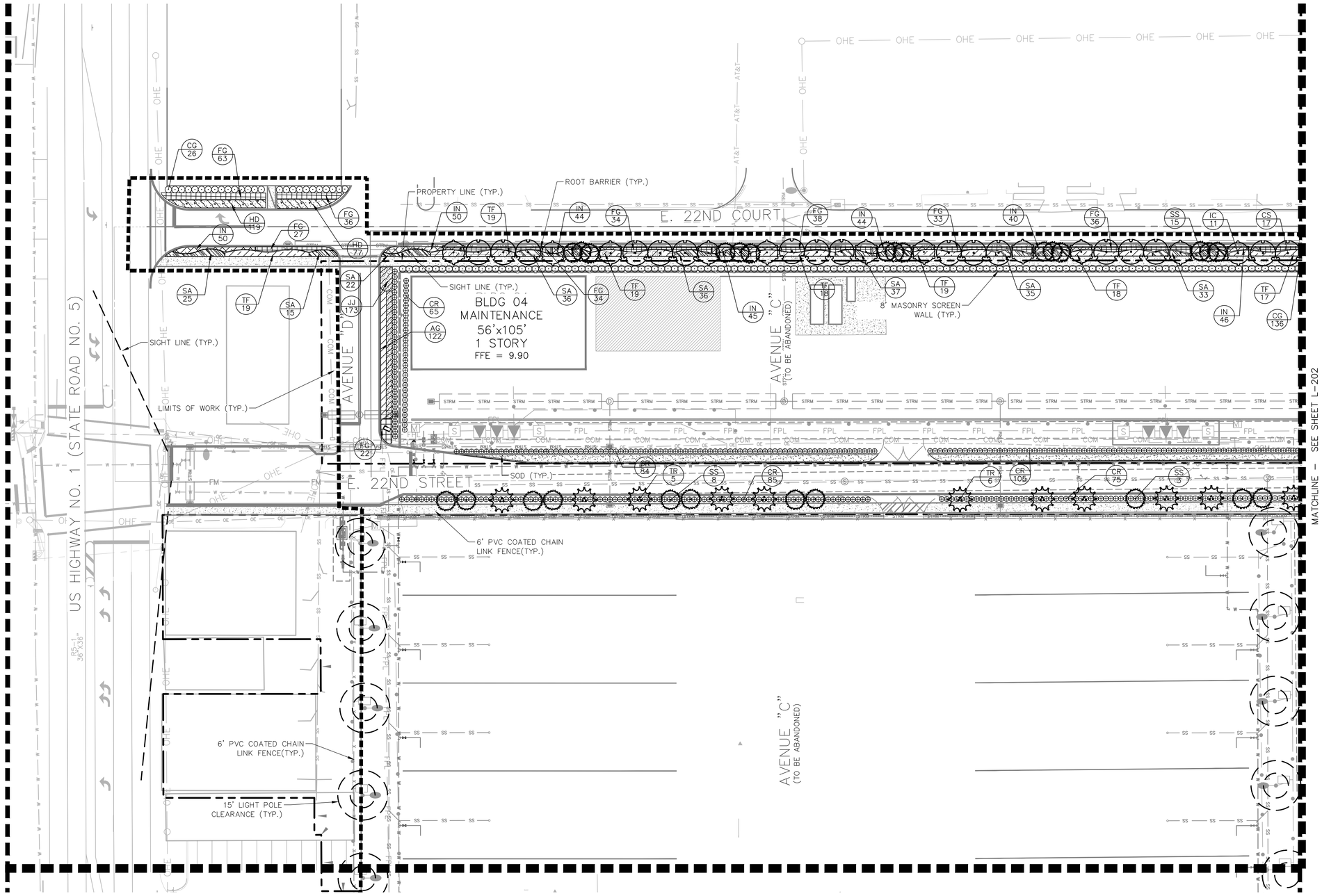
LICENSED PROFESSIONAL
KRISTEN E. ALEXA, PLA.
FL LICENSE NUMBER
LA #6667555
DATE: _____

KHA PROJECT
145994004
DATE
MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

PHASE 1 LANDSCAPE KEY MAP

SAFE HARBOR
RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
L-200



PLANT SCHEDULE PHASE 1

TREES	COMMON NAME
CO	Orange Geiger Tree
CS	Silver Buttonwood 6' Clear Trunk
IC	Dahoon Holly 6' Clear Trunk
QV	Southern Live Oak 6' Clear Trunk
PALM TREES	**COMMON NAME**
SS	Cabbage Palmetto
TR	Florida Thatch Palm Double Trunk
SHRUBS	**COMMON NAME**
CG	Small Leaf Clusia
CR	Red Tip Cocoplum
SHRUB AREAS	**COMMON NAME**
FG	Green Island Ficus
IN	Dwarf Yaupon Holly
JJ	Wax Jasmine
MC	Pink Muhly Grass
SA	Green Schefflera
TF	Fakahatchee Grass
GROUND COVERS	**COMMON NAME**
AG	Perennial Peanut
HD	Beach Sunflower
SOD	Floratam St. Augustine Grass

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
KRISTEN E. ALEXA, PLA.
FL LICENSE NUMBER
LA #6667555
DATE: ——

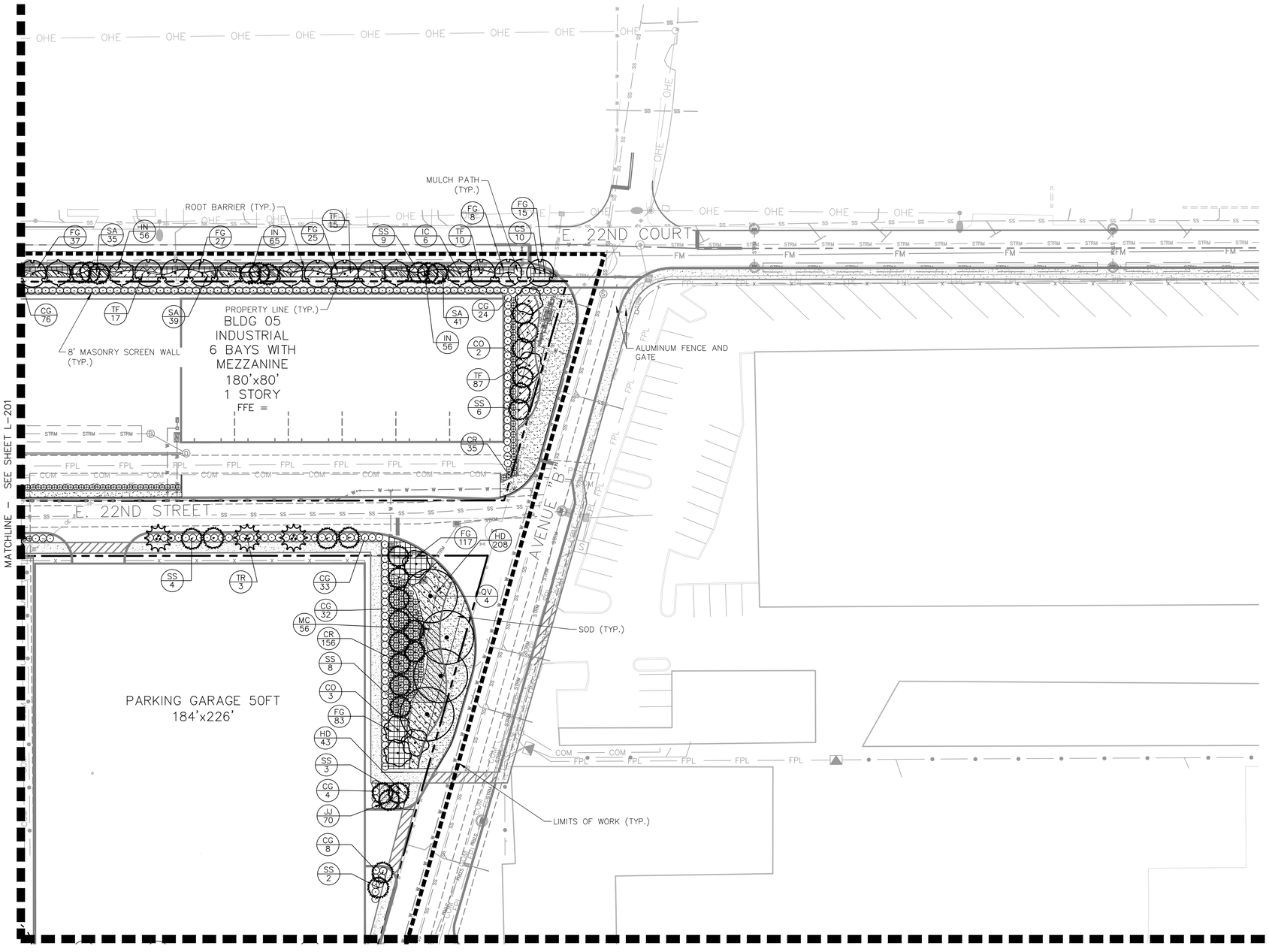
KHA PROJECT 145994004
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

PHASE 1 LANDSCAPE PLAN

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
L-201

Plotted By:Erfle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:L-201 PHASE 1 LANDSCAPE PLAN May 08, 2023 07:02:20pm K:\Ved-civil\145994004 - safe harbor riviera beach\CADD\plansheets\L-201 LANDSCAPE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

PLANT SCHEDULE PHASE 1

TREES	COMMON NAME
CO	Orange Geiger Tree
CS	Silver Buttonwood 6' Clear Trunk
IC	Dahoon Holly 6' Clear Trunk
QV	Southern Live Oak 6' Clear Trunk
PALM TREES	**COMMON NAME**
SS	Cabbage Palmetto
TR	Florida Thatch Palm Double Trunk
SHRUBS	**COMMON NAME**
CG	Small Leaf Clusia
CR	Red Tip Cocoplum
SHRUB AREAS	**COMMON NAME**
FG	Green Island Ficus
IN	Dwarf Yaupon Holly
JJ	Wax Jasmine
MC	Pink Muhly Grass
SA	Green Schefflera
TF	Fakahatchee Grass
GROUND COVERS	**COMMON NAME**
AG	Perennial Peanut
HD	Beach Sunflower
SOD	Floratam St. Augustine Grass

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
KRISTEN E. ALEXA, PLA.
FL LICENSE NUMBER
LA #6667555
DATE: ———

KHA PROJECT 145994004		DESIGNED BY	JPL
DATE MAY 2023		DRAWN BY	AMS
SCALE AS SHOWN		CHECKED BY	MDS

PHASE 1 LANDSCAPE PLAN

SAFE HARBOR RIVIERA BEACH

PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
L-202

Plotted By:Erfle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:L-202 PHASE 1 LANDSCAPE PLAN May 08, 2023 07:02:30pm K:\Ved_civil\145994004 - safe harbor riviera beach\CADD\plansheets\L-200 LANDSCAPE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc

MATCHLINE – SEE SHEET L-201

E. 21ST STREET

US HIGHWAY NO. 1 (STATE ROAD NO. 5)

AVENUE "C"
(TO BE ABANDONED)

20TH STREET
(TO BE ABANDONED)

SOD (TYP.)

6' PVC COATED CHAIN LINK FENCE(TYP.)

SIGHT LINE (TYP.)

MULCH PATH (TYP.)

8' SCREEN WALL (TYP.)

TREE GRATE (TYP.)
SEE DETAIL A/L-210

EXISTING BUILDING DEMOLITION TO HAPPEN PER PHASE 3 OF CIVIL PHASING PLAN

6' PVC COATED CHAIN LINK FENCE(TYP.)

8' SCREEN WALL (TYP.)

PROPERTY LINE (TYP.)

LIMITS OF WORK (TYP.)

MATCHLINE – SEE SHEET L-209

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

PHASE 1 U.S. HIGHWAY 1 BUFFER

TREES	COMMON NAME
CS	Silver Buttonwood 6' Clear Trunk
TS	Yellow Elder 7' Clear Trunk
PALM TREES	COMMON NAME
TR	Florida Thatch Palm Double Trunk
SHRUBS	COMMON NAME
CG	Small Leaf Clusia
SHRUB AREAS	COMMON NAME
IN	Dwarf Yaupon Holly
MC	Pink Muhly Grass
TF	Fakahatchee Grass
GROUND COVERS	COMMON NAME
GG	Blanketflower
IV	Blue Flag Iris
LO	Emerald Goddess Lilyturf
SOD	Floratam St. Augustine Grass

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
KRISTEN E. ALEXA, PLA.
FL LICENSE NUMBER
LA #6667555
DATE: ———

KHA PROJECT 145994004
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

PHASE 1 LANDSCAPE PLAN

SAFE HARBOR RIVIERA BEACH

PREPARED FOR
SAFE HARBOR MARINAS FL
RIVIERA BEACH

SHEET NUMBER
L-203

Plotted By:Erfle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:L-203 PHASE 1 LANDSCAPE PLAN May 08, 2023 07:02:40pm K:\ord_civil\145994004 - safe harbor riviera beach\CADD\plansheets\L-200 LANDSCAPE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, inc. shall be without liability to Kimley-Horn and Associates, inc

MATCHLINE – SEE SHEET L-203

MATCHLINE – SEE SHEET L-207

CR 104

CG 79

CR 3

SOD (TYP.)

AVENUE "B"

EXISTING FENCE AND GATE

LANDSCAPE IN THIS AREA TO BE DESIGNED AND INSTALLED UNDER A SEPARATE PERMIT.

PRIVATE BLDG 07

COVERED

POOL 35'x20'

LAKE WORTH

6' PVC COATED CHAIN LINK FENCE(TYP.)

PROPERTY LINE (TYP.)

LIMITS OF WORK (TYP.)

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

PLANT SCHEDULE PHASE 1

TREES	COMMON NAME
CO	Orange Geiger Tree
CS	Silver Buttonwood 6' Clear Trunk
IC	Dahoon Holly 6' Clear Trunk
QV	Southern Live Oak 6' Clear Trunk
PALM TREES	COMMON NAME
SS	Cabbage Palmetto
TR	Florida Thatch Palm Double Trunk
SHRUBS	COMMON NAME
CG	Small Leaf Clusia
CR	Red Tip Cocoplum
SHRUB AREAS	COMMON NAME
FG	Green Island Ficus
IN	Dwarf Yaupon Holly
JJ	Wax Jasmine
MC	Pink Muhly Grass
SA	Green Schefflera
TF	Fakahatchee Grass
GROUND COVERS	COMMON NAME
AG	Perennial Peanut
HD	Beach Sunflower
SOD	Floratam St. Augustine Grass

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
KRISTEN E. ALEXA, PLA.
FL LICENSE NUMBER
LA #6667555
DATE:

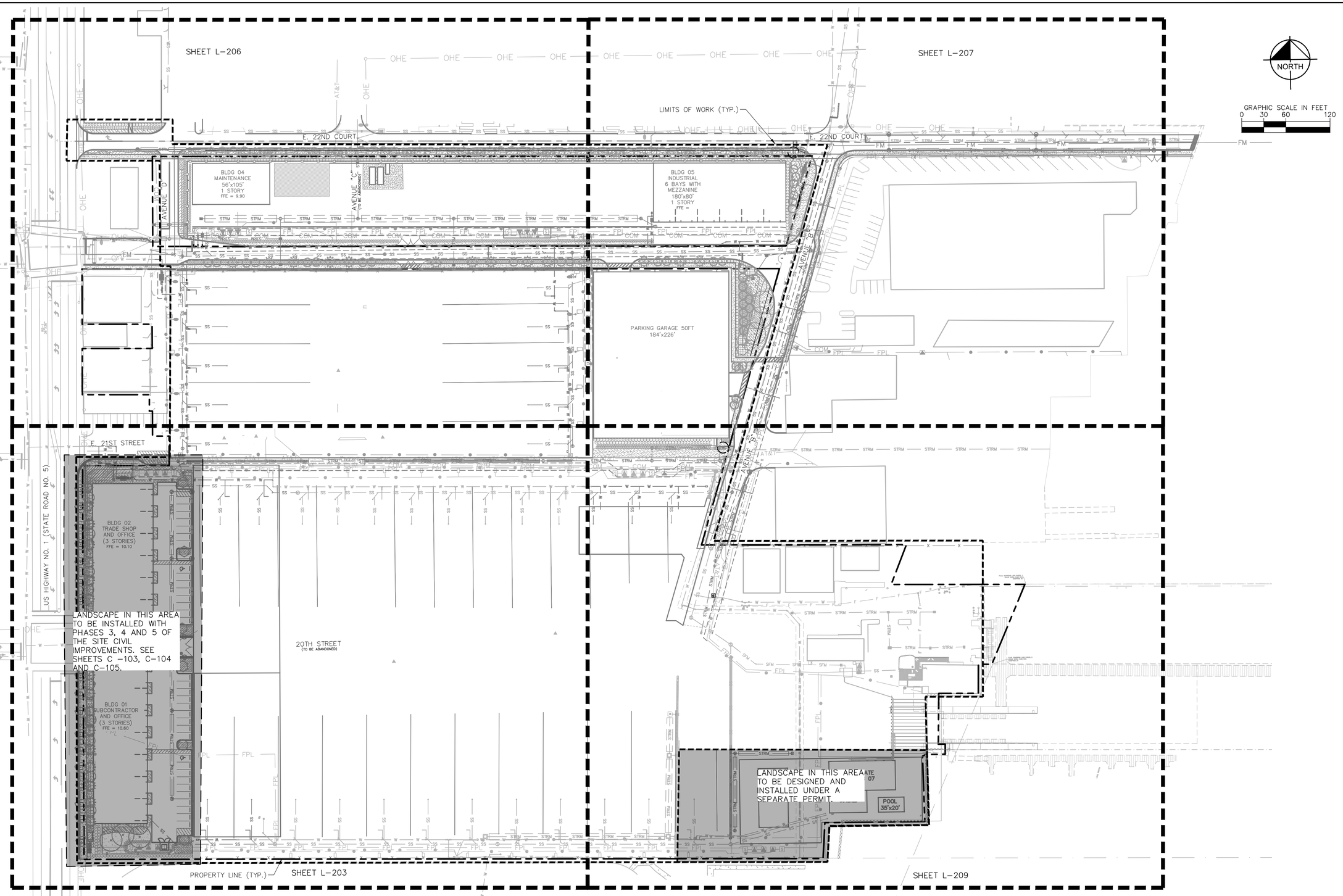
KHA PROJECT
145994004
DATE
MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

PHASE 1 LANDSCAPE PLAN

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
L-204

Plotted By:Erik, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:L-204 PHASE 1 LANDSCAPE PLAN May 08, 2023 07:02:49pm K:\bcd_civil\145994004 – safe harbor riviera beach\CADD\plansheets\L-200 LANDSCAPE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, inc. shall be without liability to Kimley-Horn and Associates, inc



Plotted By:Effie, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:L-205 PHASE 2 LANDSCAPE KEY MAP May 08, 2023 07:02:57pm K:\Ped_dist\145994004 — safe harbor riviera beach\CADD\plansheets\L-200 LANDSCAPE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

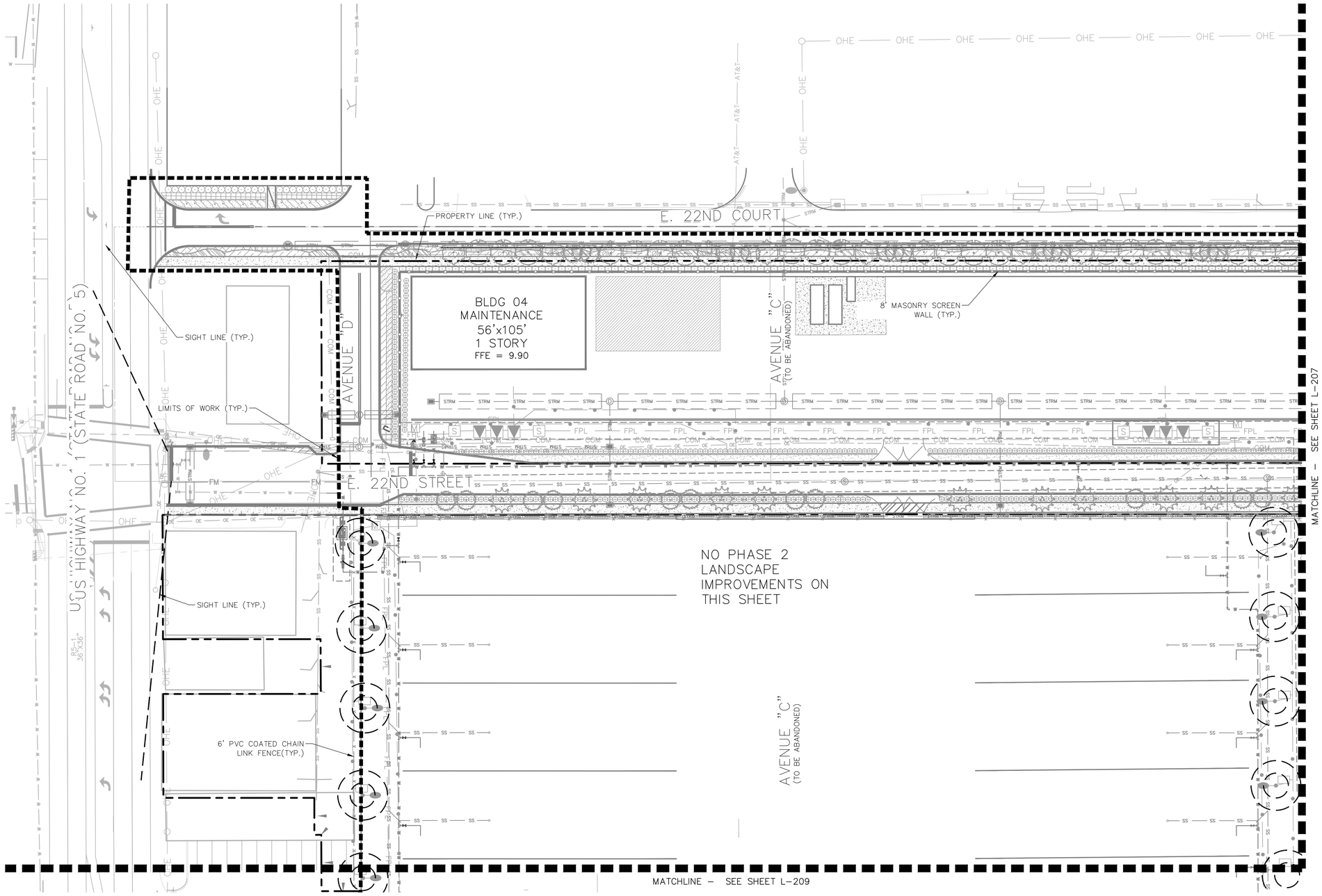
LICENSED PROFESSIONAL
KRISTEN E. ALEXA, PLA.
FL LICENSE NUMBER
LA #6667555
DATE: _____

KHA PROJECT 145994004
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

PHASE 2 LANDSCAPE KEY MAP

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
L-205



Plotted By:Erfle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:L-206 PHASE 2 LANDSCAPE PLAN May 08, 2023 07:03:06pm K:\Vero_civil\145994004 - safe harbor riviera beach\CADD\planSheets\L-200 LANDSCAPE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

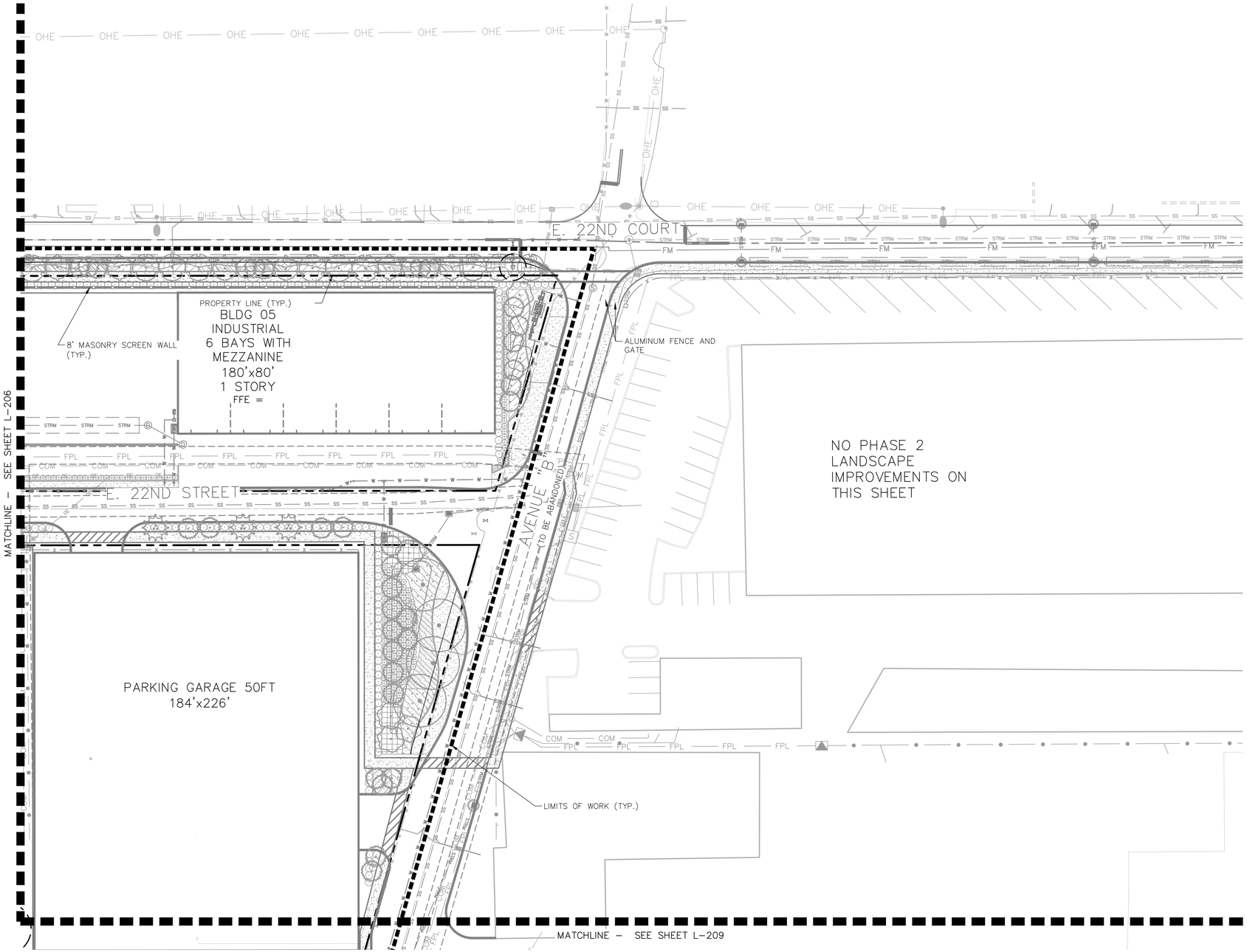
LICENSED PROFESSIONAL
KRISTEN E. ALEXA, PLA.
FL LICENSE NUMBER
LA #6667555
DATE: ____

KHA PROJECT 145994004
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

PHASE 2 LANDSCAPE PLAN

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
L-206



NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
KRISTEN E. ALEXA, PLA.
FL LICENSE NUMBER
LA #6667555
DATE: ____

KHA PROJECT 145994004	SCALE AS SHOWN	DESIGNED BY JPL	CHECKED BY MDS
DATE MAY 2023		DRAWN BY AMS	

PHASE 2 LANDSCAPE PLAN

SAFE HARBOR RIVIERA BEACH

PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
L-207

Plotted By:Erfle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:L-207 PHASE 2 LANDSCAPE PLAN May 08, 2023 07:03:14pm K:\Ncd_civil\145994004 – safe harbor riviera beach\CADD\plansheets\L-200 LANDSCAPE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc

Plotted By:Erle, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:L-208 PHASE 2 LANDSCAPE PLAN May 08, 2023 07:03:23pm K:\bed_civil\145994004 — safe harbor riviera beach\CADD\planSheets\L-200 LANDSCAPE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, inc. shall be without liability to Kimley-Horn and Associates, inc

MATCHLINE — SEE SHEET L-206

MATCHLINE — SEE SHEET L-209

E. 21ST STREET

US HIGHWAY NO. 1 (STATE ROAD NO. 5)

AVENUE "C" (TO BE ABANDONED)

20TH STREET (TO BE ABANDONED)

BLDG 02
TRADE SHOP
AND OFFICE
(3 STORIES)
FFE = 10.10

BLDG 01
SUBCONTRACTOR
AND OFFICE
(3 STORIES)
FFE = 10.60

MULCH PATH (TYP.)

6' PVC COATED CHAIN LINK FENCE(TYP.)

ROOT BARRIER (TYP.)

SIGHT LINE (TYP.)

TREE GRATE (TYP.) SEE DETAIL A/L-210

SOD (TYP.)

PROPERTY LINE (TYP.)

LIMITS OF WORK (TYP.)

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

PLANT SCHEDULE PHASE 2

TREES	COMMON NAME
CS	Silver Buttonwood 6' Clear Trunk
IC	Dahoon Holly 6' Clear Trunk
QV	Southern Live Oak 6' Clear Trunk
TS	Yellow Elder 7' Clear Trunk
PALM TREES	COMMON NAME
TR	Florida Thatch Palm Double Trunk
SHRUBS	COMMON NAME
CG	Small Leaf Clusia
CR	Red Tip Cocoplum
SHRUB AREAS	COMMON NAME
JJ	Wax Jasmine
MC	Pink Muhly Grass
SA	Green Schefflera
TF	Fakahatchee Grass
GROUND COVERS	COMMON NAME
GG	Blanketflower
HD	Beach Sunflower
HL	Spider Lily
IV	Blue Flag Iris
LO	Emerald Goddess Lilyturf
SOD	Floratam St. Augustine Grass

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.

1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
KRISTEN E. ALEXA, PLA.
FL LICENSE NUMBER
LA #6667555
DATE:

KHA PROJECT 145994004
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

PHASE 2 LANDSCAPE PLAN

SAFE HARBOR RIVIERA BEACH

PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
L-208

MATCHLINE – SEE SHEET L-207

MATCHLINE – SEE SHEET L-208

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

AVENUE "B"

EXISTING FENCE AND GATE

NO PHASE 2 LANDSCAPE IMPROVEMENTS ON THIS SHEET

LANDSCAPE IN THIS AREA TO BE DESIGNED AND INSTALLED UNDER A SEPARATE PERMIT.

PRIVATE BLDG 07

COVERED

POOL 35'x20'

6' PVC COATED CHAIN LINK FENCE(TYP.)

PROPERTY LINE (TYP.)

LIMITS OF WORK (TYP.)

LAKE WORTH

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.

1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL

KRISTEN E. ALEXA, PLA.

FL LICENSE NUMBER
LA #6667555

DATE: ———

KHA PROJECT
145994004

DATE
MAY 2023

SCALE AS SHOWN

DESIGNED BY JPL

DRAWN BY AMS

CHECKED BY MDS

PHASE 2 LANDSCAPE PLAN

SAFE HARBOR RIVIERA BEACH

PREPARED FOR

SAFE HARBOR MARINAS FL

RIVIERA BEACH

SHEET NUMBER
L-209

Plotted By:Erik, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:L-209 PHASE 2 LANDSCAPE PLAN May 08, 2023 07:03:31pm K:\bcd_civil\145994004 – safe harbor riviera beach\CADD\plansheets\L-200 LANDSCAPE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

PLANT SCHEDULE PHASE 1

TREES	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE	NATIVE	QTY
CO	Cordia sebestena	Orange Geiger Tree	B & B	2" Cal.	12' HT x 5' SPR	Yes	6
CS	Conocarpus erectus sericeus 6' Clear Trunk	Silver Buttonwood	B & B	2" Cal.	12' HT x 5' SPR	Yes	27
IC	Ilex cassine 6' Clear Trunk	Dahoon Holly	B & B	2" Cal.	12' HT x 5' SPR	Yes	17
QV	Quercus virginiana 6' Clear Trunk	Southern Live Oak	B & B	6" Cal.	14' HT X 6' SPR	Yes	4
PALM TREES	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**CAL**	**SIZE**	**NATIVE**	**QTY**
SS	Sabal palmetto	Cabbage Palmetto	F.G.		12–18' CT	Yes	60
TR	Thrinax radiata Double Trunk	Florida Thatch Palm	F.G.		10' – 14' CT	Yes	14
SHRUBS	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**O.C.**	**SIZE**	**NATIVE**	**QTY**
CG	Clusia guttifera	Small Leaf Clusia	Cont.	48" O.C.	48" HT	No	421
CR	Chrysobalanus icaco 'Red Tip'	Red Tip Cocoplum	Cont.	36" O.C.	24"x24"	Yes	724
SHRUB AREAS	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**O.C.**	**SIZE**	**NATIVE**	**QTY**
FG	Ficus microcarpa 'Green Island'	Green Island Ficus	Cont.	24" O.C.	15"x15"	No	635
IN	Ilex vomitoria 'Nana'	Dwarf Yaupon Holly	Cont.	18" O.C.	15"x15"	Yes	496
JJ	Jasminum volubile	Wax Jasmine	Cont.	24" O.C.	24" x 24"	No	243
MC	Muhlenbergia capillaris	Pink Muhly Grass	Cont.	36" O.C.	18" HT	Yes	56
SA	Schefflera arboricola	Green Schefflera	Cont.	24" O.C.	18"x18"	No	354
TF	Tripsacum dactyloides	Fakahatchee Grass	Cont.	36" O.C.	18" HT	Yes	257
GROUND COVERS	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**O.C.**	**SIZE**	**NATIVE**	**QTY**
AG	Arachis glabrata	Perennial Peanut	Cont.	18"O.C.	12"x12"	Yes	122
HD	Helianthus debilis	Beach Sunflower	Cont.	18" O.C.	12"x12"	Yes	628
SOD	Stenotaphrum secundatum 'Floratam'	Floratam St. Augustine Grass	Sod				±6,471 sf

PLANT SCHEDULE PHASE 1 U.S. HIGHWAY 1

TREES	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE	NATIVE	QTY
CS	Conocarpus erectus sericeus 6' Clear Trunk	Silver Buttonwood	B & B	2" Cal.	12' HT x 5' SPR	Yes	17
TS	Tecoma stans 7' Clear Trunk	Yellow Elder	B & B	2.5" Cal.	14' HT x 5' SPR	Yes	18
PALM TREES	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**CAL**	**SIZE**	**NATIVE**	**QTY**
TR	Thrinax radiata Double Trunk	Florida Thatch Palm	F.G.		10' – 14' CT	Yes	17
SHRUBS	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**O.C.**	**SIZE**	**NATIVE**	**QTY**
CG	Clusia guttifera	Small Leaf Clusia	Cont.	48" O.C.	48" HT	No	191
SHRUB AREAS	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**O.C.**	**SIZE**	**NATIVE**	**QTY**
IN	Ilex vomitoria 'Nana'	Dwarf Yaupon Holly	Cont.	18" O.C.	15"x15"	Yes	730
MC	Muhlenbergia capillaris	Pink Muhly Grass	Cont.	36" O.C.	18" HT	Yes	95
TF	Tripsacum dactyloides	Fakahatchee Grass	Cont.	36" O.C.	18" HT	Yes	79
GROUND COVERS	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**O.C.**	**SIZE**	**NATIVE**	**QTY**
GG	Gaillardia x grandiflora	Blanketflower	Cont.	12" O.C.	10"x10"	Yes	412
IV	Iris virginica	Blue Flag Iris	Cont.	15" O.C.	10"x10"	Yes	431
LO	Liriope muscari 'Emerald Goddess'	Emerald Goddess Lilyturf	Cont.	18" O.C.	15"x15"	No	135
SOD	Stenotaphrum secundatum 'Floratam'	Floratam St. Augustine Grass	Sod				±1,689 sf

PLANTING NOTES:

1. CONTRACTOR SHALL REFER TO THE LANDSCAPE PLANTING DETAILS, PLANT LIST, GENERAL NOTES AND ALL CONTRACT DOCUMENTS FOR FURTHER AND COMPLETE INSTRUCTIONS.
2. PLANT LIST QUANTITIES ARE PROVIDED FOR CONVENIENCE. IN THE EVENT OF QUANTITY DISCREPANCIES THE DRAWING SHALL TAKE PRECEDENCE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO BIDDING.
3. PLANT SIZES LISTED ARE THE MINIMUM SIZE THAT WILL BE ACCEPTED FOR THAT PLANT.
4. ANY SUBSTITUTION IN SIZE AND/OR PLANT MATERIAL MUST BE APPROVED BY THE LANDSCAPE ARCHITECT IN WRITING. ALL PLANTS WILL BE SUBJECT TO APPROVAL BY LANDSCAPE ARCHITECT AND/OR OWNERS REPRESENTATIVE BEFORE PLANTING CAN BEGIN.
5. CONTRACTOR SHALL FIELD ADJUST LOCATION OF PLANT MATERIAL AS NECESSARY TO AVOID DAMAGE TO EXISTING UNDERGROUND UTILITIES AND/OR INTERFERE WITH EXISTING ABOVE GROUND ELEMENTS. ALL CHANGES REQUIRED SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE AND SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE AND THE LANDSCAPE ARCHITECT.
6. THE CONTRACTOR SHALL BEAR ALL COSTS OF TESTING OF SOILS, AMENDMENTS, ETC. ASSOCIATED WITH THE WORK AND INCLUDED IN THE SPECIFICATIONS.
7. CONTRACTOR SHALL FAMILIARIZE HIM/HERSELF WITH THE LIMITS OF WORK AND EXISTING CONDITIONS AND VERIFY ALL INFORMATION. IF DISCREPANCIES EXIST, CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE IN WRITING WITHIN SEVEN CALENDAR DAYS OF NOTICE TO PROCEED.
8. ALL NEW AND TRANSPLANTED PLANT MATERIAL SHALL BE IRRIGATED BY AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM.

A TREE GRATE

NTS

1. MANUFACTURER: IRON AGE DESIGNS ironagegrates.com
2. MODEL: RAIN 5'X5' HEEL PROOF
3. COLOR/FINISH: TO BE SELECTED BY OWNER/ ARCHITECT FROM MANUFACTURER FULL RANGE
4. INSTALL PER MANUFACTURER'S SPEC.
5. ESTIMATED QUANTITY: 18

PLANT SCHEDULE PHASE 2

TREES	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE	NATIVE	QTY
CS	Conocarpus erectus sericeus 6' Clear Trunk	Silver Buttonwood	B & B	2" Cal.	12' HT x 5' SPR	Yes	9
IC	Ilex cassine 6' Clear Trunk	Dahoon Holly	B & B	2" Cal.	12' HT x 5' SPR	Yes	6
QV	Quercus virginiana 6' Clear Trunk	Southern Live Oak	B & B	6" Cal.	14' HT X 6' SPR	Yes	3
TS	Tecoma stans 7' Clear Trunk	Yellow Elder	B & B	2.5" Cal.	14' HT x 5' SPR	Yes	18
PALM TREES	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**CAL**	**SIZE**	**NATIVE**	**QTY**
TR	Thrinax radiata Double Trunk	Florida Thatch Palm	F.G.		10' – 14' CT	Yes	16
SHRUBS	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**O.C.**	**SIZE**	**NATIVE**	**QTY**
CG	Clusia guttifera	Small Leaf Clusia	Cont.	48" O.C.	48" HT	No	261
CR	Chrysobalanus icaco 'Red Tip'	Red Tip Cocoplum	Cont.	36" O.C.	24"x24"	Yes	39
SHRUB AREAS	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**O.C.**	**SIZE**	**NATIVE**	**QTY**
JJ	Jasminum volubile	Wax Jasmine	Cont.	24" O.C.	24" x 24"	No	579
MC	Muhlenbergia capillaris	Pink Muhly Grass	Cont.	36" O.C.	18" HT	Yes	106
SA	Schefflera arboricola	Green Schefflera	Cont.	24" O.C.	18"x18"	No	187
TF	Tripsacum dactyloides	Fakahatchee Grass	Cont.	36" O.C.	18" HT	Yes	107
GROUND COVERS	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**O.C.**	**SIZE**	**NATIVE**	**QTY**
GG	Gaillardia x grandiflora	Blanketflower	Cont.	12" O.C.	10"x10"	Yes	220
HD	Helianthus debilis	Beach Sunflower	Cont.	18" O.C.	12"x12"	Yes	546
HL	Hymenocallis littoralis	Spider Lily	Cont.	12" O.C.	10" x 10"	Yes	299
IV	Iris virginica	Blue Flag Iris	Cont.	15" O.C.	10"x10"	Yes	1,044
LO	Liriope muscari 'Emerald Goddess'	Emerald Goddess Lilyturf	Cont.	18" O.C.	15"x15"	No	51
SOD	Stenotaphrum secundatum 'Floratam'	Floratam St. Augustine Grass	Sod				± 1,225 sf

CODE REQUIREMENTS: SAFE HARBOR RIVIERA BEACH

SITE AREA:
ZONING: DOWNTOWN CORE/DOWNTOWN MARINE

IMPERVIOUS AREA:
PERVIOUS AREA:

	REQUIRED	PROVIDED
SEC.29-65(c.) BROADWAY SHADE TREES ARE INSTALLED IN GRATES AND THE ADJACENT BUILDING SETBACKS AUGMENT THE SIDEWALK AREA TO ESTABLISH A SUPER PEDESTRIAN ENVIRONMENT. DOWNTOWN MIXED USE STREET TREES ARE INSTALLED IN A PLANTING STRIP ADJACENT TO A CONTINUOUS SIDEWALK DOWNTOWN RESIDENTIAL SHADE TREES ARE REGULARLY SPACED IN PLANTING STRIPS NEXT TO SIDEWALKS.	YES YES YES	✓ ✓ ✓
SEC.31-539(e.) 1. STREET WALLS BE THREE FEET TO THREE FEET SIX INCHES IN HEIGHT. ONE SHADE TREE PER LINEAR FEET, UNIFORMLY SPACED, SHALL BE INSTALLED ALONG THE STREETWALL WITHIN A PLANTING AREA AT LEAST FIVE FEET WIDE. 2. ALONG SIDE AND REAR LOT LINES, A LANDSCAPE STRIP FIVE FEET IN WIDTH SHALL BE INSTALLED WITH TREES PLANTED AT LEAST 50 FEET ON CENTER. WHEN AN ALLEY IS NOT PRESENT, OPENINGS SHALL BE MADE TO ACCOMMODATE CURRENT OR FUTURE VEHICULAR CONNECTIONS BETWEEN ADJACENT PROPERTIES. LOTS WHICH INTERCONNECT THEIR PARKING TO ADJACENT LOTS MAY BE ADMINISTRATIVELY RELIEVED OF SIDE/REAR LANDSCAPE STRIPS IN ORDER TO MAXIMIZE THE PARKING SUPPLY BETWEEN THE PROPERTIES. 3. PARKING LOTS SHALL PROVIDE EITHER LANDSCAPE ISLANDS OR LANDSCAPE TRIPS AS SET FORTH BELOW: (A) ONE LANDSCAPE ISLAND AT LEAST SIX FEET IN WIDTH, EXTENDING THE ENTIRE DEPTH OF THE PARKING BAY AND CONTAINING AT LEAST ONE SHADE TREE SHALL BE PROVIDED FOR EVERY TEN PARKING STALLS; OR (B) A LANDSCAPE STRIP AT LEAST SIX FEET IN WIDTH CONTAINING AT LEAST ONE SHADE TREE FOR EVERY 50 LINEAR FEET SHALL BE PROVIDED BETWEEN PARKING ROWS.	YES YES YES	✓ ✓ ✓
SEC.31-608(c.) BUFFER LANDSCAPING (1)A BUFFER SETBACK WIDTH SHALL CONSIST OF LANDSCAPING TO INCLUDE A BUFFER SCREEN (2)THE WIDTH OF A BUFFER SCREEN SHALL BE 25 PERCENT OF THE WIDTH OF THE REQUIRED BUFFER SETBACK WIDTH	YES YES	✓ ✓
SEC.31-265(6) 50% OF ALL REQUIRED TREES SHALL CONSIST OF NATIVE SHADE TREE SPECIES. PHASE 1: TREES/PALMS: 157 TREES/PALMS x 50% = 79 TREES SHRUBS/GC: 5,175 SHRUBS/GC x 50% = 2,588 SHRUBS/GC PHASE 2: TREES/PALMS: 52 TREES/PALMS x 50% = 26 TREES SHRUBS/GC: 3,439 SHRUBS/GC x 50% = 1,720 SHRUBS/GC	50% 79 TREES/PALMS 2,588 SHRUBS/GC 26 TREES/PALMS 1,720 SHRUBS/GC	180 TREES/PALMS (100%) 3,611 SHRUBS/GC (70%) 52 TREES/PALMS (100%) 2,361 SHRUBS/GC (69%)

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE. SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
KRISTEN E. ALEXA, PLA.
FL LICENSE NUMBER
LA #6667555
DATE:

KHA PROJECT 145994004	DATE MAY 2023	SCALE AS SHOWN	DESIGNED BY JPL	DRAWN BY AMS	CHECKED BY MDS

LANDSCAPE PLAN

SAFE HARBOR RIVIERA BEACH

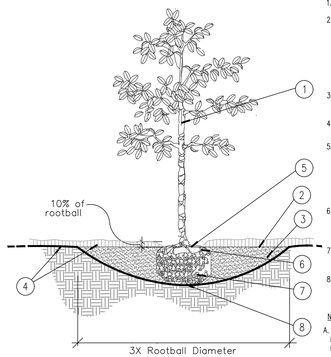
PREPARED FOR

SAFE HARBOR MARINAS FL

RIVIERA BEACH

SHEET NUMBER
L-210

Plotted By:Effie, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:L-210 LANDSCAPE PLAN May 08, 2023 07:03:41pm K:\bca_civ\145994004 — safe harbor riviera beach\CAD\plotsheets\L-200 LANDSCAPE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



1. TRUNK
2. 3" MINIMUM OF MULCH AS SPECIFIED. WHERE TREES ARE PLACED IN SOD, MULCH RING FOR TREES COVER ROOTBALL SIDES AND EXTEND 18" BEYOND ON ALL SIDES. NO MULCH SHALL BE PLACED OVER TRUNK.
3. SHALLOW/ WIDE PLANT HOLE; TOP SHALL BE 3X THE SIZE OF ROOTBALL.
4. FINISHED GRADE – LANDSCAPE SOIL
5. FIND TOP-MOST ROOT ON ROOTBALL; POSITION ROOTBALL SO THIS TOP ROOT IS 1-2" ABOVE LANDSCAPE SOIL. (APPROX. 10% OF ROOTBALL SHALL BE ABOVE LANDSCAPE SOIL)
6. B & B OR CONTAINER (SEE SPECIFICATIONS FOR ROOT BALL REQUIREMENTS).
7. REMOVE ALL SYNTHETIC MATERIALS FROM ROOTBALL.
8. ROOTBALLS SHALL BE PLACED ON UNDISTURBED SOIL TO PREVENT SETTLING.

NOTES:

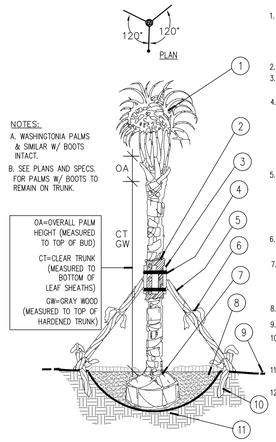
A. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.

B. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.

C. SEE PRE-APPROVED STAKING METHODS, THIS SHEET

* ALL TREES SHALL BE PLUMB VERTICALLY WITHIN A TOLERANCE OF THREE DEGREES, UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE.

A Tree Planting
SECTION NTS



NOTES:

A. WASHINGTONIA PALMS & SIMILAR W/ BOOTS INTACT.

B. SEE PLANS AND SPECS. FOR PALMS W/ BOOTS TO REMAIN ON TRUNK.

OA=OVERALL PALM HEIGHT (MEASURED TO TOP OF BUD)

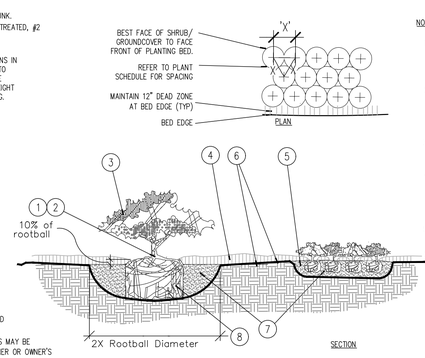
CT=CLEAR TRUNK (MEASURED TO BOTTOM OF LEAF SHEATHS)

GW=GRAY WOOD (MEASURED TO TOP OF HARDENED TRUNK)

1. MINIMUM OF NINE (9) GOOD PALM FRONDS; PRUNE AND TIE FRONDS WITH HEMP TWINE. SABAL PALMS TO BE SELECTIVELY "HURRICANE CUT", LEAVING ONLY NEWLY- EMERGING GROWTH.
2. 5 LAYERS OF BURLAP TO PROTECT TRUNK.
3. FIVE (5) 18"L, 2X4 WOOD BATTENS. UNTREATED, #2
4. SECURE BATTENS WITH TWO (2) 3/4" CARBON STEEL BANDS TO HOLD BATTENS IN PLACE. NO NAILS SHALL BE DRIVEN INTO PALM. HEIGHT OF BATTENS SHALL BE LOCATED PROPORTIONATELY TO THE HEIGHT OF THE PALM FOR ADEQUATE BRACING.
5. THREE (3) 8'L 2X4 SUPPORTS. NAIL (DRILL AND NAIL IF NECESSARY) TO BATTENS AND 2" X 4" STAKES. PALMS SHALL BE PLUMB VERTICALLY UNLESS OTHERWISE NOTED.
6. PROVIDE FLAGGING AT MIDPOINT AND BASE OF SUPPORTS.
7. TOP-MOST ROOT SHALL BE VISIBLE AT THE SURFACE OF THE ROOTBALL, SLIGHTLY ABOVE SURROUNDING GRADE.
8. 3" SPECIFIED MULCH
9. FINISH GRADE
10. 24"L (MIN.) 2X4 P.T. WOOD STAKES, NAIL TO SUPPORT POLES
11. PREPARED PLANTING SOIL AS SPECIFIED
12. ALTERNATE PALM ANCHORING SYSTEMS MAY BE SUBSTITUTED UPON APPROVAL BY OWNER OR OWNER'S REPRESENTATIVE

PRE-APPROVED SYSTEMS:
*BROOKS TREE BRACE SYSTEM
*ARBOR TIE TREE BRACING

B Palm Planting and Staking
SECTION NTS

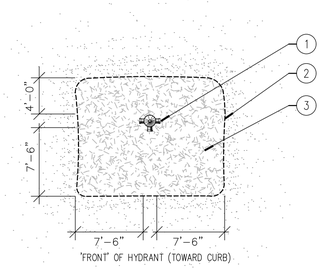


NOTES:

1. FIND POINT WHERE TOPMOST ROOT EMERGES FROM TRUNK WITHIN 2" OF SURFACE. CLEAR EXCESS SOIL IF NECESSARY.
2. TOP 10% OF SHRUB AND GROUNDCOVER ROOTBALLS TO BE PLANTED ABOVE THE LANDSCAPE GRADE. DO NOT COVER EXPOSED 10% ON SIDES WITH SOIL.
3. PRUNE ALL LIKE SHRUBS WITHIN A PLANTED MASS TO ACHIEVE A UNIFORM MASS/HEIGHT.
4. 3" MINIMUM MULCH AS SPECIFIED – DO NOT COVER ENTIRE SHRUB ROOTBALL OR CREATE 'WATER RINGS' ONLY COVER SIDES OF ROOTBALL WITH MULCH
5. EXCAVATE ENTIRE BED SPECIFIED FOR GROUNDCOVER BED.
6. FINISHED GRADE (SEE GRADING PLAN).
7. PREPARED PLANTING SOIL AS SPECIFIED. NOTE: WHEN GROUND- COVERS AND SHRUBS USED IN MASSES, ENTIRE BED TO BE AMENDED WITH PLANTING SOIL MIX AS SPECIFIED.
8. SCARIFY ROOTBALL SIDES AND BOTTOM.

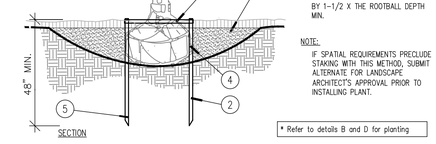
* ALL SHRUBS AND GROUNDCOVERS SHALL BE PLUMB VERTICALLY, UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE.

C Shrub / Groundcover Planting
PLAN/SECTION NTS



1. FIRE HYDRANT
2. NO PLANT MATERIAL SHALL BE PLACED WITHIN SHOWN RADIUS OF ALL PROPOSED OR EXISTING FIRE HYDRANTS. CONTRACTOR SHALL ADJUST PLANT MATERIAL SO THAT NO CONFLICTS WITH FIRE HYDRANTS OCCUR ON SITE.
3. PROVIDE A MULCH, 3" DEPTH MIN., SURROUNDING AREA INDICATED.

D Fire Hydrant Clear Zone
PLAN NTS



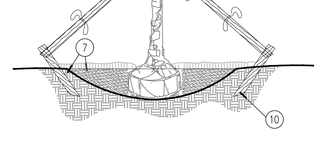
1. FINISH GRADE
2. HORIZONTAL 2X2 SCREWED TO 2X2 STAKE. ALL WOOD SHALL BE #2 UNTREATED.
3. 3-1/2" DRYWALL SCREW, THREAD SIZE 12, SHARP POINT, FULL THREAD, BLACK PHOSPHATE FINISH
4. VERTICAL STAKES SHALL ABUT SIDE OF ROOTBALL
5. STAKES TO EXTEND INTO NATIVE SOIL BY 1-1/2 X THE ROOTBALL DEPTH MIN.

NOTE:

IF SPATIAL REQUIREMENTS PRECLUDE STAKING WITH THIS METHOD, SUBMIT ALTERNATE FOR LANDSCAPE ARCHITECT'S APPROVAL PRIOR TO INSTALLING PLANT.

* Refer to details B and D for planting

E Staking – up to 65 gal. or B&B to 3-1/2" Cal.
PLAN/SECTION NTS



1. FIVE (5) LAYERS OF BURLAP TO PROTECT TRUNK
2. TWO STEEL BANDS TO SECURE BATTENS
3. FIVE 2 X 4 X 18"L WOOD BATTENS
4. THREE (3) 2" X 8' LODGE POLES. DRILL, USING GALVANIZED SCREWS, TO BATTENS AND 2" X 4" STAKES. NO SCREWS SHALL PENETRATE TREE. FLAG AT MIDPOINT AND AT BASE.
10. 2" x 4" x 3' (MIN), P.T. WOOD STAKES BURIED 3" BELOW FINISHED GRADE.
7. FINISHED GRADE (SEE GRADING PLAN)

NOTES:

A. ALL TREES SHALL BE PLUMB VERTICALLY WITHIN A TOLERANCE OF THREE DEGREES, UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE.

B. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.

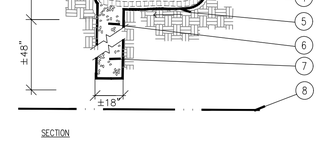
C. ALTERNATE TREE ANCHORING SYSTEMS MAY BE SUBSTITUTED FOR WOOD STAKING SYSTEM UPON APPROVAL BY OWNER OR OWNER'S REPRESENTATIVE

PRE-APPROVED SYSTEMS:
*BROOKS TREE BRACE SYSTEM
*ARBOR TIE TREE BRACING

D. RUBBER HOSE/WIRE SYSTEMS ARE NOT ALLOWED.

* Refer to details B and D for planting

F Large Tree Staking – 100 Gal + or B&B 4" +
SECTION NTS



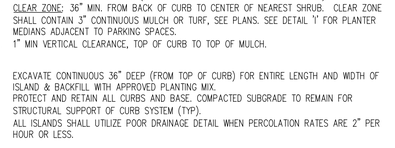
1. FINISH GRADE
2. BACKFILL WITH PREPARED PLANTING SOIL MIX AS SPECIFIED.
3. FILTER CLOTH, MIRAFI 500X OR BETTER
4. 12" CLEAN SAND, COMPACTED. ADJUST LAYER THICKNESS SO TOP OF ROOTBALL IS AT LEAST 1" ABOVE FINISHED GRADE.
5. SLOPE BOTTOM TO DRAIN
6. ±18"ø AUGURED HOLE PENETRATE THROUGH OCCLUDING LAYER TO WATER TABLE OR TO A DEPTH OF 7' TO ASSURE PROPER PERCOLATION.
7. BACKFILL WITH 1/2" – 3/4" GRAVEL.
8. WATER TABLE. (DEPTH VARIES)

NOTE:

FOR A PARKING ISLAND PLANTING SITUATION, CONTRACTOR TO BACKFILL ENTIRE LENGTH OF PLANTING AREA TO WITHIN 6" OF BACK OF CURB OR EDGE OF PAVEMENT.

REFER TO NOTE 0.3 OF WRITTEN SPECIFICATIONS FOR ADDITIONAL INFORMATION.

G Poor Drainage Condition
PLAN/SECTION NTS

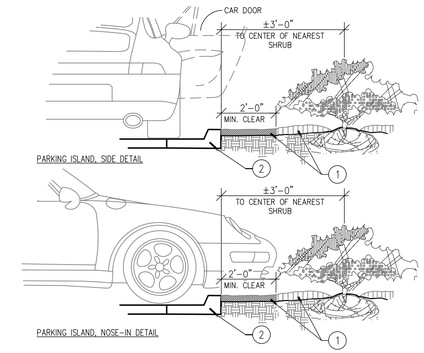


PLANTER ISLAND NOTES

1. CROWN ISLANDS @ 5:1 SLOPES (OR AS SPECIFIED ON THE LANDSCAPE PLANS).
2. CLEAR ZONE: 36" MIN. FROM BACK OF CURB TO CENTER OF NEAREST SHRUB. CLEAR ZONE SHALL CONTAIN 3" CONTINUOUS MULCH OR TURF, SEE PLANS. SEE DETAIL 'J' FOR PLANTER MEDIANS ADJACENT TO PARKING SPACES.
3. 1" MIN VERTICAL CLEARANCE, TOP OF CURB TO TOP OF MULCH.

- EXCAVATE CONTINUOUS 36" DEEP (FROM TOP OF CURB) FOR ENTIRE LENGTH AND WIDTH OF ISLAND & BACKFILL WITH APPROVED PLANTING MIX.
- PROTECT AND RETAIN ALL CURBS AND BASE. COMPACTED SUBGRADE TO REMAIN FOR STRUCTURAL SUPPORT OF CURB SYSTEM (TYP).
- ALL ISLANDS SHALL UTILIZE POOR DRAINAGE DETAIL WHEN PERCOLATION RATES ARE 2" PER HOUR OR LESS.

H Planted Parking Lot Islands / Medians
SECTION NTS

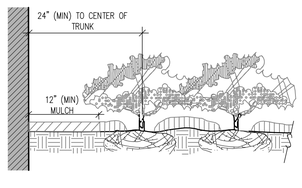


1. INSTALL CONTINUOUS MULCH BED ADJACENT TO PARKING SPACES AS SHOWN. MULCH SHALL BE MIN. 3" DEEP.

NO POP-UP IRRIGATION HEADS SHALL BE LOCATED WITHIN 24" OF A PARKING SPACE ON ANY SIDE

2. CURB OR PARKING LOT EDGE, BY OTHERS

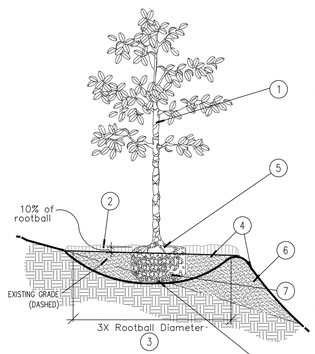
I Parking Space/Curb Planting
SECTION NTS



NOTES

* CLEAR ZONE: 24" MIN. FROM BUILDING TO CENTER OF NEAREST SHRUB.

J Plantings Adjacent to Buildings
SECTION NTS



1. TREES, PALMS, AND LARGE SHRUBS (15 GAL OR GREATER) SHALL BE PLANTED IN SIMILAR MANNER
2. 3" MINIMUM OF MULCH AS SPECIFIED. WHERE TREES ARE PLACED IN SOD, MULCH RING FOR TREES COVER ROOTBALL SIDES AND EXTEND 18" BEYOND ON ALL SIDES. NO MULCH SHALL BE PLACED OVER TRUNK.
3. SHALLOW/ WIDE PLANT HOLE; TOP SHALL BE 3X THE SIZE OF ROOTBALL.
4. FINISHED GRADE – LANDSCAPE SOIL
5. FIND TOP-MOST ROOT ON ROOTBALL; POSITION ROOTBALL SO THIS TOP ROOT IS 1-2" ABOVE LANDSCAPE SOIL. (APPROX. 10% OF ROOTBALL SHALL BE ABOVE LANDSCAPE SOIL)
6. BERM SOIL SO THAT TOP OF BERM IS JUST BELOW THE TOP 10% OF THE TOP OF THE ROOTBALL. SLOPE DOWNHILL PORTION OF BERM AS REQUIRED TO MEET EXISTING GRADE.
7. B & B OR CONTAINER REMOVE ALL SYNTHETIC MATERIALS FROM ROOTBALL. (SEE SPECIFICATIONS FOR OTHER ROOT BALL REQUIREMENTS)
8. ROOTBALLS SHALL BE PLACED ON UNDISTURBED SOIL TO PREVENT SETTLING.

NOTES:

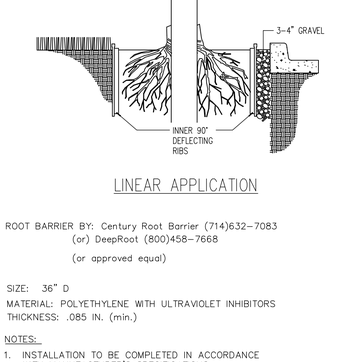
A. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.

B. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.

C. SEE PRE-APPROVED STAKING METHODS, THIS SHEET

* ALL TREES SHALL BE PLUMB VERTICALLY WITHIN A TOLERANCE OF THREE DEGREES, UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE.

K Planting on a Slope
SECTION NTS



LINEAR APPLICATION

ROOT BARRIER BY: Century Root Barrier (714)632-7083
(or) DeepRoot (800)458-7668

(or approved equal)

SIZE: 36" D

MATERIAL: POLYETHYLENE WITH ULTRAVIOLET INHIBITORS

THICKNESS: .085 IN. (min.)

NOTES:

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. INSTALL AS REQUIRED, PER PLAN NOTES.
3. SUBMIT PRODUCT DATA FOR APPROVAL.

L Root Barrier
Barrier Detail NTS

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201,
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
KRISTEN E. ALEXA, PLA.
FL LICENSE NUMBER
LA #6667555
DATE:

KHA PROJECT 145994004	DESIGNED BY JPL
DATE MAY 2023	DRAWN BY AMS
SCALE AS SHOWN	CHECKED BY MDS

LANDSCAPE DETAILS

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
L-211

Plotted By:Erika, Chris Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:L-211 LANDSCAPE DETAILS May 08, 2023 07:04:43pm K:\Vrd_civil\145994004 – safe harbor riviera beach\CADD\Worksheets\L-210 LANDSCAPE DETAILS.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

GENERAL LANDSCAPE SPECIFICATIONS AND NOTES

A. SCOPE OF WORK

1. THE WORK CONSISTS OF: FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT AS SHOWN ON THE DRAWINGS, AS INCLUDED IN THE PLANT LIST, AND AS HEREIN SPECIFIED.

2. WORK SHALL INCLUDE MAINTENANCE AND WATERING OF ALL CONTRACT PLANTING AREAS UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER.

B. PROTECTION OF EXISTING STRUCTURES

ALL EXISTING BUILDINGS, WALKS, WALLS, PAVING, PIPING, OTHER SITE CONSTRUCTION ITEMS, AND PLANTING ALREADY COMPLETED OR ESTABLISHED SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. ALL DAMAGE RESULTING FROM NEGLIGENCE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER, AT NO COST TO THE OWNER.

C. PROTECTION OF EXISTING PLANT MATERIALS OUTSIDE LIMIT OF WORK

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNAUTHORIZED CUTTING OR DAMAGE TO TREES AND SHRUBS EXISTING OR OTHERWISE, CAUSED BY CARELESS EQUIPMENT OPERATION, MATERIAL STOCKPILING, ETC. THIS SHALL INCLUDE COMPACTION BY DRIVING OR PARKING INSIDE THE DRIP-LINE AND SPILLING OIL, GASOLINE, OR OTHER DELETERIOUS MATERIALS WITHIN THE DRIP-LINE. NO MATERIALS SHALL BE BURNED WHERE HEAT WILL DAMAGE ANY PLANT. EXISTING TREES KILLED OR DAMAGED SO THAT THEY ARE MISSHAPEN AND/ OR UNSIGHTLY SHALL BE REPLACED AT THE COST TO THE CONTRACTOR OF ONE HUNDRED DOLLARS ($100) PER CALIPER INCH ON AN ESCALATING SCALE WHICH ADDS AN ADDITIONAL TWENTY (20) PERCENT PER INCH OVER FOUR (4) INCHES CALIPER AS FIXED AND AGREED LIQUIDATED DAMAGES. CALIPER SHALL BE MEASURED SIX (6) INCHES ABOVE GROUND LEVEL FOR TREES UP TO AND INCLUDING FOUR (4) INCHES IN CALIPER AND TWELVE (12) INCHES ABOVE GROUND LEVEL FOR TREES OVER FOUR (4) INCHES IN CALIPER.

D. MATERIALS

1. GENERAL

MATERIALS LISTED BELOW SHALL BE SUBMITTED FOR APPROVAL. UPON SUBMITTALS' APPROVAL, DELIVERY OF MATERIALS MAY COMMENCE.

MATERIAL	SUBMITTAL
MULCH	PRODUCT DATA
TOPSOIL MIX	AMENDMENT MIX/ PRODUCT DATA/ TEST RESULTS
PLANTS	PHOTOGRAPHS OF ONE (1) OF EACH SPECIES (OR TAGGED IN NURSERY) CLIENT-REQUESTED TAGGING MAY SUBSTITUTE PHOTOS. INDICATE SIZES (HEIGHT/WIDTH) AND QUALITY PER SPEC.
FERTILIZER	PRODUCT DATA
INNOCULANT	PRODUCT DATA
HERBICIDE	PRODUCT DATA
STAKING/GUYING	FOR ALTERNATE TO DETAILS: SEND PRODUCT DATA, DETAIL

2. PLANT MATERIALS

A. PLANT SPECIES AND SIZE SHALL CONFORM TO THOSE INDICATED ON THE DRAWINGS. NOMENCLATURE SHALL CONFORM TO STANDARDIZED PLANT NAMES, 1942 EDITION. ALL NURSERY STOCK SHALL BE IN ACCORDANCE WITH GRADES AND STANDARDS FOR NURSERY PLANTS, LATEST EDITION, PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. ALL PLANTS SHALL BE FLORIDA GRADE NO. 1 OR BETTER AS DETERMINED BY THE FLORIDA DIVISION OF PLANT INDUSTRY. ALL PLANTS SHALL BE HEALTHY, VIGOROUS, SOUND, WELL-BRANCHED, AND FREE OF DISEASE AND INSECTS, INSECT EGGS AND LARVAE AND SHALL HAVE ADEQUATE ROOT SYSTEMS. TREES FOR PLANTING IN ROWS SHALL BE UNIFORM IN SIZE AND SHAPE. ALL MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE OWNER. WHERE ANY REQUIREMENTS ARE OMITTED FROM THE PLANT LIST, THE PLANTS FURNISHED SHALL BE NORMAL FOR THE VARIETY. PLANTS SHALL BE PRUNED PRIOR TO DELIVERY ONLY WITH APPROVAL FROM OWNER OR OWNER'S REPRESENTATIVE. NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN PERMISSION FROM THE OWNER'S REPRESENTATIVE

B. MEASUREMENTS: THE HEIGHT AND/OR WIDTH OF TREES SHALL BE MEASURED FROM THE GROUND OR ACROSS THE NORMAL SPREAD OF BRANCHES WITH THE PLANTS IN THEIR NORMAL POSITION. THIS MEASUREMENT SHALL NOT INCLUDE THE IMMEDIATE TERMINAL GROWTH. PLANTS LARGER IN SIZE THAN THOSE SPECIFIED IN THE PLANT LIST MAY BE USED IF APPROVED BY THE OWNER. IF THE USE OF LARGER PLANTS IS APPROVED, THE BALL OF EARTH OR SPREAD OF ROOTS SHALL BE INCREASED IN PROPORTION TO THE SIZE OF THE PLANT.

C. INSPECTION: PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH, OR UPON DELIVERY TO THE SITE, AS DETERMINED BY THE OWNER, FOR QUALITY, SIZE, AND VARIETY; SUCH APPROVAL SHALL NOT IMPAIR THE RIGHT OF INSPECTION AND REJECTION AT THE SITE DURING PROGRESS OF THE WORK OR AFTER COMPLETION FOR SIZE AND CONDITION OF ROOT BALLS OR ROOTS, LATENT DEFECTS OR INJURIES. REJECTED PLANTS SHALL BE REMOVED IMMEDIATELY FROM THE SITE. NOTICE REQUESTING INSPECTION SHALL BE SUBMITTED IN WRITING BY THE CONTRACTOR AT LEAST ONE (1) WEEK PRIOR TO ANTICIPATED DATE.

E. SOIL MIXTURE (PLANTING MEDIUM, PLANTING MIX, TOPSOIL MIX)

1. SOIL MIXTURE (PLANTING MEDIUM FOR PLANT PITS) SHALL CONSIST OF 20% CLEAN FLORIDA MUCK AND 80% PARTS CLEAN SAND. IT SHALL CONTAIN THREE (3) TO FIVE (5) PERCENT DECOMPOSED ORGANIC MATTER AND A PH BETWEEN 5.5 AND 7.0 – SUBMIT SAMPLE AND PH TESTING RESULTS FOR APPROVAL.

2. MUCK (OR MUCKY PEAT) FOR USE IN PREPARING SOIL MIXTURE FOR BACKFILLING PLANT PITS SHALL BE FERTILE, AND OF A VERY HIGH ORGANIC CONTENT DERIVED FROM FLORIDA SOURCES; REASONABLY FREE OF SUBSOIL, CLAY LUMPS, BRUSH WEEDS AND OTHER LITTER; FREE OF ROOTS, STUMPS, STONES LARGER THAN 2" IN ANY DIRECTION, AND OTHER EXTRANEOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH.

3. SAND FOR USE IN PREPARING SOIL MIXTURE SHALL BE COARSE, CLEAN, WELL-DRAINING, NATIVE SAND. CONTRACTOR SHALL SUBMIT RESULTS OF SOIL TESTS FOR TOPSOIL AND SAND PROPOSED FOR USE UNDER THIS CONTRACT FOR APPROVAL BY THE OWNER.

4. TREES SHALL BE PLANTED IN THE EXISTING NATIVE SOIL ON SITE, UNLESS DETERMINED TO BE UNSUITABLE – AT WHICH POINT THE CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT TO DISCUSS ALTERNATE RECOMMENDATION PRIOR TO PLANTING.

5. CONTRACTOR TO SUBMIT SAMPLES OF SOIL MIXTURE FOR OWNER'S REPRESENTATIVE APPROVAL PRIOR TO PLANT INSTALLATION OPERATIONS COMMENCE.

F. WATER

WATER NECESSARY FOR PLANTING AND MAINTENANCE SHALL BE OF SATISFACTORY QUALITY TO SUSTAIN AN ADEQUATE PLANT GROWTH AND SHALL NOT CONTAIN HARMFUL, NATURAL OR MAN-MADE ELEMENTS DETRIMENTAL TO PLANTS. WATER MEETING THE ABOVE STANDARD SHALL BE OBTAINED ON THE SITE FROM THE OWNER, IF AVAILABLE, AND THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ARRANGEMENTS FOR ITS USE BY HIS TANKS, HOSES, SPRINKLERS, ETC.. IF SUCH WATER IS NOT AVAILABLE AT THE SITE, THE CONTRACTOR SHALL PROVIDE SATISFACTORY WATER FROM SOURCES OFF THE SITE AT NO ADDITIONAL COST TO THE OWNER.

*WATERING/IRRIGATION RESTRICTIONS MAY APPLY – REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.

G. FERTILIZER

CONTRACTOR SHALL PROVIDE FERTILIZER APPLICATION SCHEDULE TO OWNER, AS APPLICABLE TO SOIL TYPE, PLANT INSTALLATION TYPE, AND SITE'S PROPOSED USE. SUGGESTED FERTILIZER TYPES SHALL BE ORGANIC OR OTHERWISE NATURALLY-DERIVED.

*FERTILIZER RESTRICTIONS MAY APPLY – REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.

H. MULCH

MULCH MATERIAL SHALL BE MOISTENED AT THE TIME OF APPLICATION TO PREVENT WIND DISPLACEMENT, AND APPLIED AT A MINIMUM DEPTH OF 3 INCHES. CLEAR MULCH FROM EACH PLANT'S CROWN (BASE). TYPE OF MATERIAL: "FLORIMULCH" OR SHREDDED, STERILE EUCALYPTUS MULCH

I. DIGGING AND HANDLING

1. PROTECT ROOTS OR ROOT BALLS OF PLANTS AT ALL TIMES FROM SUN, DRYING WINDS, WATER AND FREEZING, AS NECESSARY UNTIL PLANTING. PLANT MATERIALS SHALL BE ADEQUATELY PACKED TO PREVENT DAMAGE DURING TRANSIT. TREES TRANSPORTED MORE THAN TEN (10) MILES OR WHICH ARE NOT PLANTED WITHIN THREE (3) DAYS OF DELIVERY TO SITE SHALL BE SPRAYED WITH AN ANTITRANSPIRANT PRODUCT ("WILTPRUF" OR EQUAL) TO MINIMIZE TRANSPIRATIONAL WATER LOSS.

2. BALLED AND BURLAPPED PLANTS (B&B) SHALL BE DUG WITH FIRM, NATURAL BALLS OF SOIL OF SUFFICIENT SIZE TO ENCOMPASS THE FIBROUS AND FEEDING ROOTS OF THE PLANTS. NO PLANTS MOVED WITH A ROOT BALL SHALL BE PLANTED IF THE BALL IS CRACKED OR BROKEN. PLANTS BALLED AND BURLAPPED OR CONTAINER GROWN SHALL NOT BE HANDLED BY STEMS.

3. PLANTS MARKED "BR" IN THE PLANT LIST SHALL BE DUG WITH BARE ROOTS, COMPLYING WITH FLORIDA GRADES AND STANDARDS FOR NURSERY PLANTS, CURRENT EDITION. CARE SHALL BE EXERCISED THAT THE ROOTS DO NOT DRY OUT DURING TRANSPORTATION AND PRIOR TO PLANTING.

4. PROTECTION OF PALMS (IF APPLICABLE): ONLY A MINIMUM OF FRONDS SHALL BE REMOVED FROM THE CROWN OF THE PALM TREES TO FACILITATE MOVING AND HANDLING. CLEAR TRUNK (CT) SHALL BE AS SPECIFIED AFTER THE MINIMUM OF FRONDS HAVE BEEN REMOVED. ALL PALMS SHALL BE BRACED PER PALM PLANTING DETAIL.

5. EXCAVATION OF TREE PITS SHALL BE PERFORMED USING EXTREME CARE TO AVOID DAMAGE TO SURFACE AND SUBSURFACE ELEMENTS SUCH AS UTILITIES OR HARDSCAPE ELEMENTS, FOOTERS AND PREPARED SUB- BASES.

J. CONTAINER GROWN STOCK

1. ALL CONTAINER GROWN MATERIAL SHALL BE HEALTHY, VIGOROUS, WELL-ROOTED PLANTS ESTABLISHED IN THE CONTAINER IN WHICH THEY ARE SOLD. THE PLANTS SHALL HAVE TOPS WHICH ARE OF GOOD QUALITY AND ARE IN A HEALTHY GROWING CONDITION, FLORIDA #1 OR BETTER.

2. AN ESTABLISHED CONTAINER GROWN PLANT SHALL BE TRANSPLANTED INTO A CONTAINER AND GROWN IN THAT CONTAINER SUFFICIENTLY LONG FOR THE NEW FIBROUS ROOTS TO HAVE DEVELOPED SO THAT THE ROOT MASS WILL RETAIN ITS SHAPE AND HOLD TOGETHER WHEN REMOVED FROM THE CONTAINER. CONTAINER GROWN STOCK SHALL NOT BE HANDLED BY THEIR STEMS.

3. PLANT ROOTS BOUND IN CONTAINERS ARE NOT ACCEPTABLE.

4. SUBSTITUTION OF NON-CONTAINER GROWN MATERIAL FOR MATERIAL EXPLICITLY SPECIFIED TO BE CONTAINER GROWN WILL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL IS OBTAINED FROM THE OWNER OR OWNER'S REPRESENTATIVE.

K. COLLECTED STOCK

WHEN THE USE OF COLLECTED STOCK IS PERMITTED AS INDICATED BY THE OWNER OR OWNER'S REPRESENTATIVE, THE MINIMUM SIZES OF ROOTBALLS SHALL BE EQUAL TO THAT SPECIFIED FOR THE NEXT LARGER SIZE OF NURSERY GROWN STOCK OF THE SAME VARIETY.

L. NATIVE STOCK

PLANTS COLLECTED FROM WILD OR NATIVE STANDS SHALL BE CONSIDERED NURSERY GROWN WHEN THEY HAVE BEEN SUCCESSFULLY RE-ESTABLISHED IN A NURSERY ROW AND GROWN UNDER REGULAR NURSERY CULTURAL PRACTICES FOR A MINIMUM OF TWO (2) GROWING SEASONS AND HAVE ATTAINED ADEQUATE ROOT AND TOP GROWTH TO INDICATE FULL RECOVERY FROM TRANSPLANTING INTO THE NURSERY ROW.

M. MATERIALS LIST

QUANTITIES NECESSARY TO COMPLETE THE WORK ON THE DRAWINGS SHALL BE FURNISHED BY THE CONTRACTOR. QUANTITY ESTIMATES HAVE BEEN MADE CAREFULLY, BUT THE LANDSCAPE ARCHITECT OR OWNER ASSUMES NO LIABILITY FOR OMISSIONS OR ERRORS. SHOULD A DISCREPANCY OCCUR BETWEEN THE PLANS AND THE PLANT LIST QUANTITY, THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION PRIOR TO BIDDING OR INSTALLATION. ALL DIMENSIONS AND/OR SIZES SPECIFIED SHALL BE THE MINIMUM ACCEPTABLE SIZE

N. FINE GRADING

1. FINE GRADING UNDER THIS CONTRACT SHALL CONSIST OF FINAL FINISHED GRADING OF LAWN AND PLANTING AREAS THAT HAVE BEEN ROUGH GRADED BY OTHERS. BERMING AS SHOWN ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS OTHERWISE NOTED.

2. THE CONTRACTOR SHALL FINE GRADE THE LAWN AND PLANTING AREAS TO BRING THE ROUGH GRADE UP TO FINAL FINISHED GRADE ALLOWING FOR THICKNESS OF SOD AND/OR MULCH DEPTH. THIS CONTRACTOR SHALL FINE GRADE BY HAND AND/OR WITH ALL EQUIPMENT NECESSARY INCLUDING A GRADING TRACTOR WITH FRONT-END LOADER FOR TRANSPORTING SOIL WITHIN THE SITE.

3. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED FOR POSITIVE DRAINAGE TO SURFACE/SUBSURFACE STORM DRAIN SYSTEMS. AREAS ADJACENT TO BUILDINGS SHALL SLOPE AWAY FROM THE BUILDINGS. REFER TO CIVIL ENGINEER'S PLANS FOR FINAL GRADES.

O. PLANTING PROCEDURES

1. CLEANING UP BEFORE COMMENCING WORK: THE CONTRACTOR SHALL CLEAN WORK AND SURROUNDING AREAS OF ALL RUBBISH OR OBJECTIONABLE MATTER. ALL MORTAR, CEMENT, AND TOXIC MATERIAL SHALL BE REMOVED FROM THE SURFACE OF ALL PLANT BEDS. THESE MATERIALS SHALL NOT BE MIXED WITH THE SOIL. SHOULD THE CONTRACTOR FIND SUCH SOIL CONDITIONS BENEATH THE SOIL WHICH WILL IN ANY WAY ADVERSELY AFFECT THE PLANT GROWTH, HE SHALL IMMEDIATELY CALL IT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. FAILURE TO DO SO BEFORE PLANTING SHALL MAKE THE CORRECTIVE MEASURES THE RESPONSIBILITY OF THE CONTRACTOR.

2. VERIFY LOCATIONS OF ALL UTILITIES, CONDUITS, SUPPLY LINES AND CABLES, INCLUDING BUT NOT LIMITED TO: ELECTRIC, GAS (LINES AND TANKS), WATER, SANITARY SEWER, STORMWATER SYSTEMS, CABLE, AND TELEPHONE. PROPERLY MAINTAIN AND PROTECT EXISTING UTILITIES. CALL NATIONAL ONE CALL – 811 – TO LOCATE UTILITIES.

3. SUBGRADE EXCAVATION: CONTRACTOR IS RESPONSIBLE TO REMOVE ALL EXISTING AND IMPORTED LIMEROCK AND LIMEROCK SUB-BASE FROM ALL LANDSCAPE PLANTING AREAS TO A MINIMUM DEPTH OF 36". CONTRACTOR IS RESPONSIBLE TO BACKFILL THESE PLANTING AREAS TO ROUGH FINISHED GRADE WITH CLEAN TOPSOIL FROM AN ON-SITE SOURCE OR AN IMPORTED SOURCE. IF LIMEROCK OR OTHER ADVERSE CONDITIONS OCCUR IN PLANTED AREAS AFTER 36" DEEP EXCAVATION BY THE CONTRACTOR, AND ADEQUATE PERCOLATION CAN NOT BE ACHIEVED, CONTRACTOR SHALL UTILIZE PLANTING DETAIL THAT ADDRESSES POOR DRAINAGE.

4. FURNISH NURSERY'S CERTIFICATE OF COMPLIANCE WITH ALL REQUIREMENTS AS HEREIN SPECIFIED AND REQUIRED. INSPECT AND SELECT PLANT MATERIALS BEFORE PLANTS ARE DUG AT NURSERY OR GROWING SITE.

5. GENERAL: COMPLY WITH APPLICABLE FEDERAL, STATE, COUNTY, AND LOCAL REGULATIONS GOVERNING LANDSCAPE MATERIALS AND WORK. CONFORM TO ACCEPTED HORTICULTURAL PRACTICES AS USED IN THE TRADE. UPON ARRIVAL AT THE SITE , PLANTS SHALL BE THOROUGHLY WATERED AND PROPERLY MAINTAINED UNTIL PLANTED. PLANTS STORED ON-SITE SHALL NOT REMAIN UNPLANTED FOR A PERIOD EXCEEDING TWENTY-FOUR (24) HOURS. AT ALL TIMES, METHODS CUSTOMARY IN GOOD HORTICULTURAL PRACTICES SHALL BE EXERCISED.

6. THE WORK SHALL BE COORDINATED WITH OTHER TRADES TO PREVENT CONFLICTS. COORDINATE PLANTING WITH IRRIGATION WORK TO ASSURE AVAILABILITY OF WATER AND PROPER LOCATION OF IRRIGATION APPURTENANCES AND PLANTS.

7. ALL PLANTING PITS SHALL BE EXCAVATED TO SIZE AND DEPTH IN ACCORDANCE WITH THE USA STANDARD FOR NURSERY STOCK 260.1, UNLESS SHOWN OTHERWISE ON THE DRAWINGS, AND BACKFILLED WITH THE PREPARED PLANTING SOIL MIXTURE AS SPECIFIED IN SECTION E. TEST ALL TREE PITS WITH WATER BEFORE PLANTING TO ASSURE PROPER DRAINAGE PERCOLATION IS AVAILABLE. NO ALLOWANCE WILL BE MADE FOR LOST PLANTS DUE TO IMPROPER PERCOLATION. IF POOR PERCOLATION EXISTS, UTILIZE "POOR DRAINAGE CONDITION" PLANTING DETAIL. TREES SHALL BE SET PLUMB AND HELD IN POSITION UNTIL THE PLANTING MIXTURE HAS BEEN FLUSHED INTO PLACE WITH A SLOW, FULL HOSE STREAM. ALL PLANTING SHALL BE PERFORMED BY PERSONNEL FAMILIAR WITH PLANTING PROCEDURES AND UNDER THE SUPERVISION OF A QUALIFIED LANDSCAPE FOREMAN. PROPER "JETTING IN" SHALL BE ASSURED TO ELIMINATE AIR POCKETS AROUND THE ROOTS. "JET STICK" OR EQUAL IS RECOMMENDED.

8. TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO BUILDINGS AND BUILDING STRUCTURES WHILE INSTALLING TREES.

9. SOIL MIXTURE SHALL BE AS SPECIFIED IN SECTION E OF THESE SPECIFICATIONS.

10. TREES AND SHRUBS SHALL BE SET STRAIGHT AT AN ELEVATION THAT, AFTER SETTLEMENT, THE PLANT CROWN WILL STAND ONE (1) TO TWO (2) INCHES ABOVE GRADE. EACH PLANT SHALL BE SET IN THE CENTER OF THE PIT. PLANTING SOIL MIXTURE SHALL BE BACKFILLED, THOROUGHLY TAMPED AROUND THE BALL, AND SETTLED BY WATER (AFTER TAMPING).

11. AMEND PINE AND OAK PLANT PITS WITH ECTOMYCORRHIZAL SOIL APPLICATION PER MANUFACTURER'S RECOMMENDATION. ALL OTHER PLANT PITS SHALL BE AMENDED WITH ENDOMYCORRHIZAL SOIL APPLICATION PER MANUFACTURER'S RECOMMENDATION. PROVIDE PRODUCT INFORMATION SUBMITTAL PRIOR TO INOCULATION.

12. FILL HOLE WITH SOIL MIXTURE, MAKING CERTAIN ALL SOIL IS SATURATED. TO DO THIS, FILL HOLE WITH WATER AND ALLOW TO SOAK MINIMUM TWENTY (20) MINUTES, STIRRING IF NECESSARY TO GET SOIL THOROUGHLY WET. PACK LIGHTLY WITH FEET. ADD MORE WET SOIL MIXTURE. DO NOT COVER TOP OF BALL WITH SOIL MIXTURE, ONLY WITH MULCH. ALL BURLAP, ROPE, WIRES, BASKETS, ETC.., SHALL BE REMOVED FROM THE SIDES AND TOPS OF BALLS, BUT NO BURLAP SHALL BE PULLED FROM UNDERNEATH.

13. PRUNING: TREES SHALL BE PRUNED, AT THE DIRECTION OF THE OWNER OR OWNER'S REPRESENTATIVE, TO PRESERVE THE NATURAL CHARACTER OF THE PLANT. ALL SOFT WOOD OR SUCKER GROWTH AND ALL BROKEN OR BADLY DAMAGED BRANCHES SHALL BE REMOVED WITH A CLEAN CUT. ALL PRUNING TO BE PERFORMED BY LICENSED ARBORIST, IN ACCORDANCE WITH ANSI A-300.

14. SHRUBS AND GROUND COVER PLANTS SHALL BE EVENLY SPACED IN ACCORDANCE WITH THE DRAWINGS AND AS INDICATED ON THE PLANT LIST. CULTIVATE ALL PLANTING AREAS TO A MINIMUM DEPTH OF 6", REMOVE AND DISPOSE ALL DEBRIS. MIX TOP 4" TO ACHEIVE SOIL MIXTURE AS SPECIFIED IN SECTION E. THOROUGHLY WATER ALL PLANTS AFTER INSTALLATION.

15. TREE GUYING AND BRACING SHALL BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE PLANS TO INSURE STABILITY AND MAINTAIN TREES IN AN UPRIGHT POSITION. IF THE CONTRACTOR AND OWNER DECIDE TO WAIVE THE TREE GUYING AND BRACING, THE OWNER SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING AND AGREE TO INDEMNIFY AND HOLD HARMLESS THE LANDSCAPE ARCHITECT IN THE EVENT UNSUPPORTED TREES PLANTED UNDER THIS CONTRACT FALL AND DAMAGE PERSON OR PROPERTY.

16. MULCHING: PROVIDE A THREE INCH (MINIMUM) LAYER OF SPECIFIED MULCH OVER THE ENTIRE AREA OF EACH SHRUB BED, GROUND COVER, VINE BED, AND TREE PIT PLANTED UNDER THIS CONTRACT.

17. HERBICIDE WEED CONTROL: ALL PLANT BEDS SHALL BE KEPT FREE OF NOXIOUS WEEDS UNTIL FINAL ACCEPTANCE OF WORK. IF DIRECTED BY THE OWNER, "ROUND-UP" SHALL BE APPLIED FOR WEED CONTROL BY QUALIFIED PERSONNEL TO ALL PLANTING AREAS IN SPOT APPLICATIONS PER MANUFACTURER'S PRECAUTIONS AND SPECIFICATIONS. PRIOR TO FINAL INSPECTION, TREAT ALL PLANTING BEDS WITH AN APPROVED PRE-EMERGENT HERBICIDE AT AN APPLICATION RATE RECOMMENDED BY THE MANUFACTURER. (AS ALLOWED BY JURISDICTIONAL AUTHORITY)

P. LAWN SODDING

1. THE WORK CONSISTS OF LAWN BED PREPARATION, SOIL PREPARATION, AND SODDING COMPLETE, IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND THE APPLICABLE DRAWINGS TO PRODUCE A TURF GRASS LAWN ACCEPTABLE TO THE OWNER.

2. LAWN BED PREPARATION: ALL AREAS THAT ARE TO BE SODDED SHALL BE CLEARED OF ANY ROUGH GRASS, WEEDS, AND DEBRIS, AND THE GROUND BROUGHT TO AN EVEN GRADE. THE ENTIRE SURFACE SHALL BE ROLLED WITH A ROLLER WEIGHING NOT MORE THAN ONE-HUNDRED (100) POUNDS PER FOOT OF WIDTH. DURING THE ROLLING, ALL DEPRESSIONS CAUSED BY SETTLEMENT SHALL BE FILLED WITH ADDITIONAL SOIL, AND THE SURFACE SHALL BE REGRADED AND ROLLED UNTIL PRESENTING A SMOOTH AND EVEN FINISH TO THE REQUIRED GRADE.

3. SOIL PREPARATION: PREPARE LOOSE BED FOUR (4) INCHES DEEP. HAND RAKE UNTIL ALL BUMPS AND DEPRESSIONS ARE REMOVED. WET PREPARED AREA THOROUGHLY.

4. SODDING

A. THE CONTRACTOR SHALL SOD ALL AREAS THAT ARE NOT PAVED OR PLANTED AS DESIGNATED ON THE DRAWINGS WITHIN THE CONTRACT LIMITS, UNLESS SPECIFICALLY NOTED OTHERWISE.

B. THE SOD SHALL BE CERTIFIED TO MEET FLORIDA STATE PLANT BOARD SPECIFICATIONS, ABSOLUTELY TRUE TO VARIETAL TYPE, AND FREE FROM WEEDS, FUNGUS, INSECTS AND DISEASE OF ANY KIND.

C. SOD PANELS SHALL BE LAID TIGHTLY TOGETHER SO AS TO MAKE A SOLID SODDED LAWN AREA. SOD SHALL BE LAID UNIFORMLY AGAINST THE EDGES OF ALL CURBS AND OTHER HARDSCAPE ELEMENTS, PAVED AND PLANTED AREAS. ADJACENT TO BUILDINGS, A 24 INCH STONE MULCH STRIP SHALL BE PROVIDED – REFER TO DETAILS. IMMEDIATELY FOLLOWING SOD LAYING, THE LAWN AREAS SHALL BE ROLLED WITH A LAWN ROLLER CUSTOMARILY USED FOR SUCH PURPOSES, AND THEN THOROUGHLY IRRIGATED. IF, IN THE OPINION OF THE OWNER, TOP-DRESSING IS NECESSARY AFTER ROLLING TO FILL THE VOIDS BETWEEN THE SOD PANELS AND TO EVEN OUT INCONSISTENCIES IN THE SOD, CLEAN SAND, AS APPROVED BY THE OWNER'S REPRESENTATIVE, SHALL BE UNIFORMLY SPREAD OVER THE ENTIRE SURFACE OF THE SOD AND THOROUGHLY WATERED IN. FERTILIZE INSTALLED SOD AS ALLOWED BY PROPERTY'S JURISDICTIONAL AUTHORITY.

5. DURING DELIVERY, PRIOR TO, AND DURING THE PLANTING OF THE LAWN AREAS, THE SOD PANELS SHALL AT ALL TIMES BE PROTECTED FROM EXCESSIVE DRYING AND UNNECESSARY EXPOSURE OF THE ROOTS TO THE SUN. ALL SOD SHALL BE STACKED SO AS NOT TO BE DAMAGED BY SWEATING OR EXCESSIVE HEAT AND MOISTURE.

6. LAWN MAINTENANCE:

A. WITHIN THE CONTRACT LIMITS, THE CONTRACTOR SHALL PRODUCE A DENSE, WELL ESTABLISHED LAWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RE-SODDING OF ALL ERODED, SUNKEN OR BARE SPOTS (LARGER THAN 12"X12") UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER'S REPRESENTATIVE. REPAIRED SODDING SHALL BE ACCOMPLISHED AS IN THE ORIGINAL WORK (INCLUDING REGRADING IF NECESSARY).

B. CONTRACTOR RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SOD/LAWN UNTIL ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. PRIOR TO AND UPON ACCEPTANCE, CONTRACTOR TO PROVIDE WATERING/IRRIGATION SCHEDULE TO OWNER. OBSERVE ALL APPLICABLE WATERING RESTRICTIONS AS SET FORTH BY THE PROPERTY'S JURISDICTIONAL AUTHORITY.

Q. CLEANUP

UPON COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM HIS WORK. ALL PAVED AREAS SHALL BE BROOM-CLEANED AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.

R. PLANT MATERIAL MAINTENANCE

ALL PLANTS AND PLANTING INCLUDED UNDER THIS CONTRACT SHALL BE MAINTAINED BY WATERING, CULTIVATING, SPRAYING, AND ALL OTHER OPERATIONS (SUCH AS RE-STAKING OR REPAIRING GUY SUPPORTS) NECESSARY TO INSURE A HEALTHY PLANT CONDITION BY THE CONTRACTOR UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER'S REPRESENTATIVE. MAINTENANCE AFTER THE CERTIFICATION OF ACCEPTABILITY SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS IN THIS SECTION. CONTRACTORS ARE REQUESTED TO PROVIDE A BID ESTIMATE TO COVER LANDSCAPE AND IRRIGATION MAINTENANCE FOR A PERIOD OF 90 CALENDAR DAYS COMMENCING AFTER ACCEPTANCE.

S. MAINTENANCE (ALTERNATE BID ITEM)

CONTRACTORS ARE REQUESTED TO PROVIDE A BID ESTIMATE FOR MAINTENANCE FOLLOWING THE INITIAL 90-DAY MAINTENANCE PERIOD ON A COST-PER-MONTH BASIS.

T. FINAL INSPECTION AND ACCEPTANCE OF WORK

FINAL INSPECTION AT THE END OF THE WARRANTY PERIOD SHALL BE ON PLANTING, CONSTRUCTION AND ALL OTHER INCIDENTAL WORK PERTAINING TO THIS CONTRACT. ANY REPLACEMENT AT THIS TIME SHALL BE SUBJECT TO THE SAME ONE (1) YEAR WARRANTY (OR AS SPECIFIED BY THE LANDSCAPE ARCHITECT OR OWNER IN WRITING) BEGINNING WITH THE TIME OF REPLACEMENT AND ENDING WITH THE SAME INSPECTION AND ACCEPTANCE HEREIN DESCRIBED.

U. WARRANTY

1. THE LIFE AND SATISFACTORY CONDITION OF ALL 7 GALLON AND LARGER PLANT MATERIAL INSTALLED BY THE LANDSCAPE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTABILITY BY THE OWNER'S REPRESENTATIVE.

2. THE LIFE AND SATISFACTORY CONDITION OF ALL OTHER PLANT MATERIAL (INCLUDING SOD) INSTALLED BY THE LANDSCAPE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTABILITY BY THE OWNER'S REPRESENTATIVE.

3. REPLACEMENT: ANY PLANT NOT FOUND IN A HEALTHY GROWING CONDITION AT THE END OF THE WARRANTY PERIOD SHALL BE REMOVED FROM THE SITE AND REPLACED AS SOON AS WEATHER CONDITIONS PERMIT. ALL REPLACEMENTS SHALL BE PLANTS OF THE SAME KIND AND SIZE AS SPECIFIED IN THE PLANT LIST. THEY SHALL BE FURNISHED PLANTED AND MULCHED AS SPECIFIED UNDER "PLANTING", AT NO ADDITIONAL COST TO THE OWNER.

4. IN THE EVENT THE OWNER DOES NOT CONTRACT WITH THE CONTRACTOR FOR LANDSCAPE (AND IRRIGATION) MAINTENANCE, THE CONTRACTOR IS ENCOURAGED TO VISIT THE PROJECT SITE PERIODICALLY DURING THE ONE YEAR WARRANTY PERIOD TO EVALUATE MAINTENANCE PROCEDURES BEING PERFORMED BY THE OWNER, AND SHALL NOTIFY THE OWNER IN WRITING OF MAINTENANCE PROCEDURES OR CONDITIONS WHICH THREATEN VIGOROUS AND HEALTHY PLANT GROWTH. IT IS SUGGESTED SUCH SITE VISITS SHALL BE CONDUCTED A MINIMUM OF ONCE PER MONTH FOR A PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF ACCEPTANCE.

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
1615 S. CONGRESS AVE., SUITE 201
DELRAY BEACH, FL 33445
PHONE: 561-330-2345 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
KRISTEN E. ALEXA, PLA.
FL LICENSE NUMBER
LA #6667555

Previous plans from 1st PZB meeting below

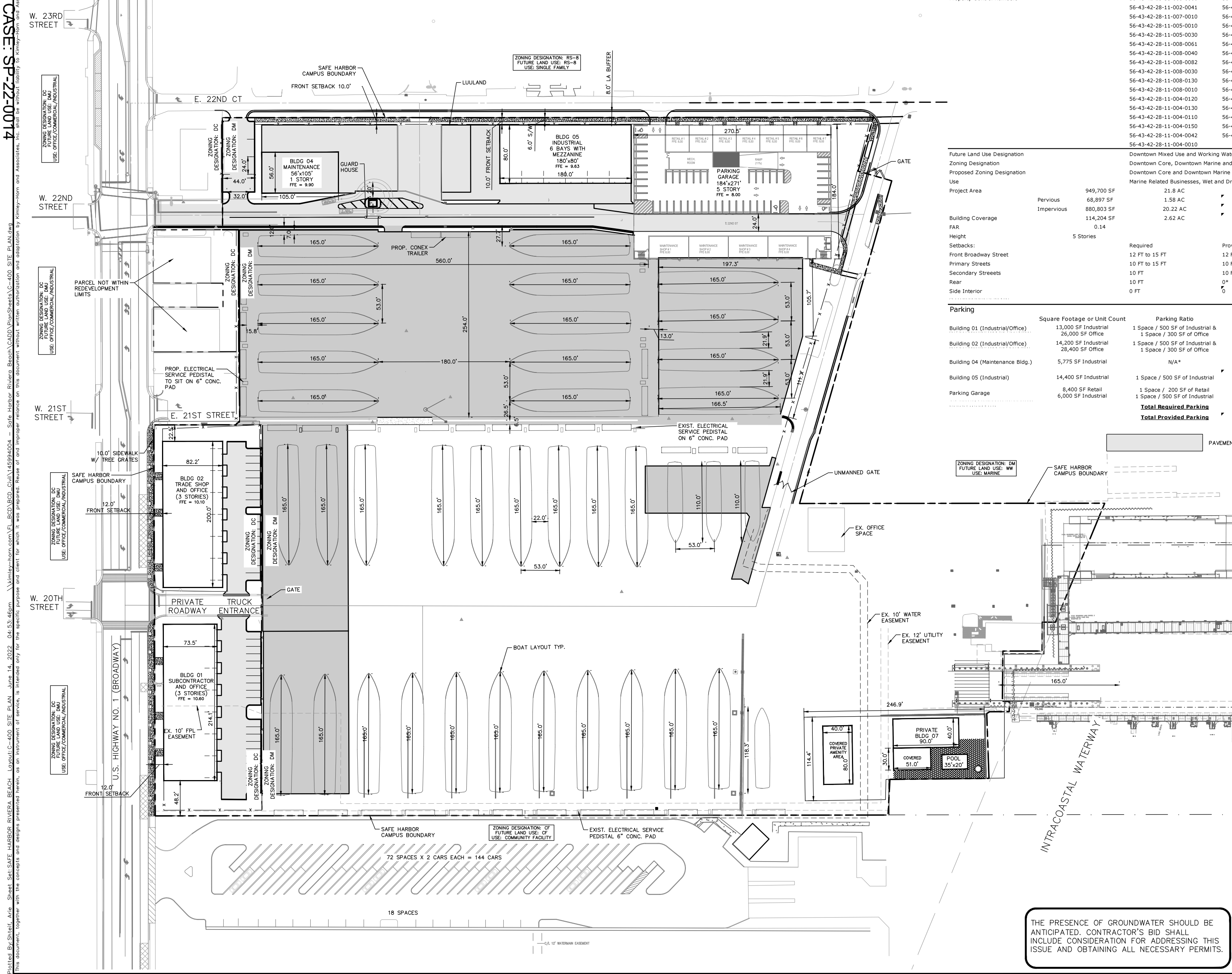
SITE DATA

Property Control Numbers			56-43-42-28-33-000-0000	56-43-42-28-11-004-0020
			56-43-42-28-11-002-0041	56-43-42-28-11-004-0030
			56-43-42-28-11-007-0010	56-43-42-28-11-004-0041
			56-43-42-28-11-005-0010	56-43-42-28-11-003-0010
			56-43-42-28-11-005-0030	56-43-42-28-11-003-0020
			56-43-42-28-11-008-0061	56-43-42-28-11-003-0030
			56-43-42-28-11-008-0040	56-43-42-28-11-003-0040
			56-43-42-28-11-008-0082	56-43-42-28-11-003-0050
			56-43-42-28-11-008-0030	56-43-42-28-11-003-0070
			56-43-42-28-11-008-0130	56-43-42-28-11-003-0090
			56-43-42-28-11-008-0010	56-43-42-28-11-003-0101
			56-43-42-28-11-004-0120	56-43-42-28-11-003-0130
			56-43-42-28-11-004-0130	56-43-42-28-11-003-0140
			56-43-42-28-11-004-0110	56-43-42-28-11-003-0150
			56-43-42-28-11-004-0150	56-43-42-28-11-003-0161
			56-43-42-28-11-004-0042	56-43-42-28-11-003-0180
			56-43-42-28-11-004-0010	
Future Land Use Designation			Downtown Mixed Use and Working Waterfront	
Zoning Designation			Downtown Core, Downtown Marine and Downtown Residential	
Proposed Zoning Designation			Downtown Core and Downtown Marine	
Use			Marine Related Businesses, Wet and Dry Boat Storage	
Project Area		949,700 SF	21.8 AC	%
	Pervious	68,897 SF	1.58 AC	7.3 %
	Impervious	880,803 SF	20.22 AC	92.7%
Building Coverage		114,204 SF	2.62 AC	12.0%
FAR		0.14		
Height		5 Stories		
Setbacks:			Required	Provided
Front Broadway Street			12 FT to 15 FT	12 FT
Primary Streets			10 FT to 15 FT	10 FT
Secondary Streeets			10 FT	10 FT
Rear			10 FT	0*
Side Interior			0 FT	0

Parking

	Square Footage or Unit Count	Parking Ratio	Required Parking
Building 01 (Industrial/Office)	13,000 SF Industrial 26,000 SF Office	1 Space / 500 SF of Industrial & 1 Space / 300 SF of Office	Industrial: 26 Office: 87
Building 02 (Industrial/Office)	14,200 SF Industrial 28,400 SF Office	1 Space / 500 SF of Industrial & 1 Space / 300 SF of Office	Industrial: 29 Office: 95
Building 04 (Maintenance Bldg.)	5,775 SF Industrial	N/A*	N/A
Building 05 (Industrial)	14,400 SF Industrial	1 Space / 500 SF of Industrial	29
Parking Garage	8,400 SF Retail 6,000 SF Industrial	1 Space / 200 SF of Retail 1 Space / 500 SF of Industrial	Retail: 42 Industrial: 12
		Total Required Parking	**320**
		Total Provided Parking	**532**

PAVEMENT CONSTRUCTION



PLANS ARE IN NAVD 1988 DATUM CONVERSION EQUATION IS BELOW: (NAVD 1988) + 1.52' = (NGVD 1929)

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

Always call 811 two full business days before you dig to have underground utilities located and marked.
Sunshine811.com

NO.	REVISIONS	DATE	BY

Kimley»Horn
© 2022 KIMLEY-HORN AND ASSOCIATES, INC.
Song + Associates, Inc.
Architecture • Planning • Interior Design

LICENSED PROFESSIONAL
MICHAEL D. SPRUCE, P.E.
FL LICENSE NUMBER
52776
DATE:

KHA PROJECT 145994004
DATE JUNE 2022
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

SITE PLAN

SAFE HARBOR RIVIERA BEACH

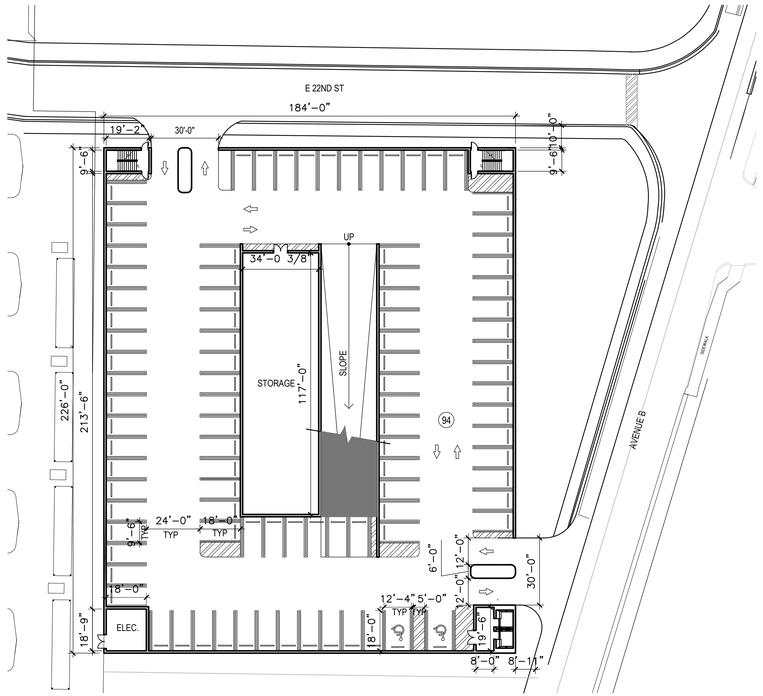
PREPARED FOR
SAFE HARBOR MARINAS
RIVERA BEACH FL

SHEET NUMBER
C-400

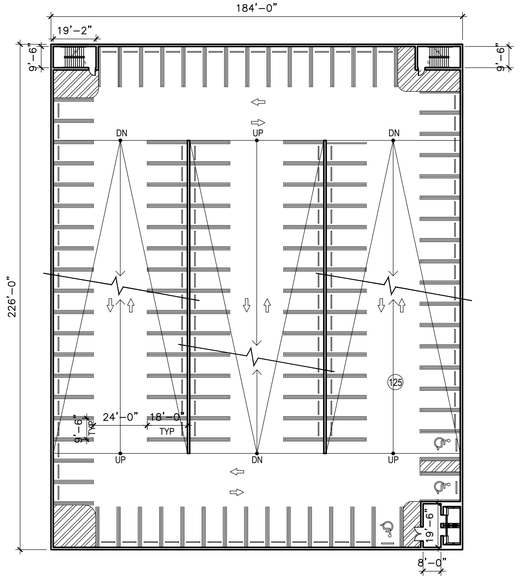
Plotted By:Shiell, Arie Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:C-400 SITE PLAN June 14, 2022 04:53:46pm \\kimley-horn.com\FL_BCD\BCD_Civil\145994004 - Safe Harbor Riviera Beach\CADD\PlanSheets\C-400 SITE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adoption by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

23rd Street
BLDG 04
BLDG 05
Ave B
22nd Street
PARKING
GARAGE
BLDG 02
BLDG 01
BLDG 07
POOL
35' x 20'

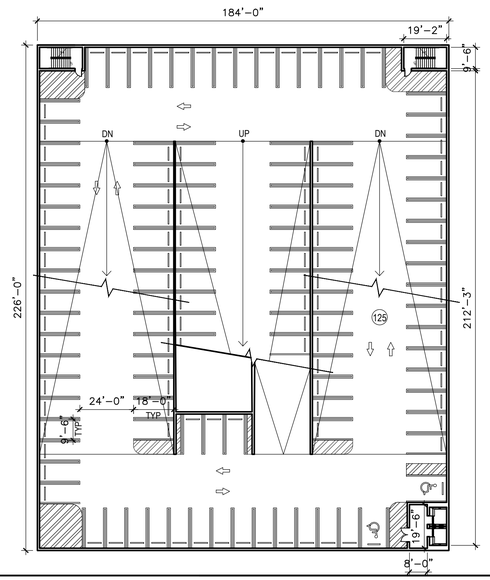
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



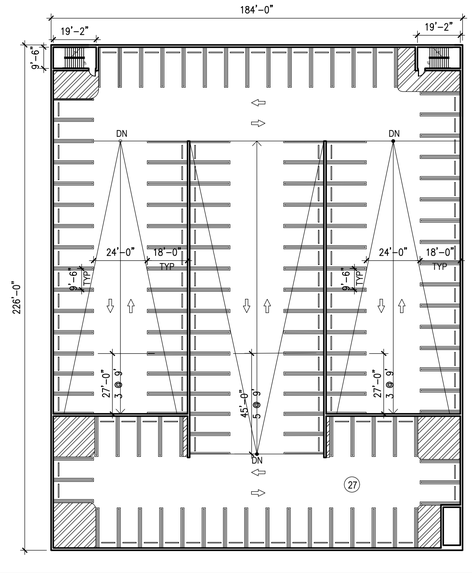
GROUND FLOOR PLAN | 01 | 1/32"=1'-0"



TYPICAL (3-4) FLOOR PLAN | 03 | 1/32"=1'-0"



2ND FLOOR PLAN | 02 | 1/32"=1'-0"



ROOF FLOOR PLAN | 04 | 1/32"=1'-0"

PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.52' = (NGVD 1929)

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

Always call 811 two full business days before you dig to have underground utilities located and marked.

Sunshine811.com

No.	REVISIONS	DATE	BY

Kimley»Horn

Song + Associates, Inc.
Architecture • Planning • Interior Design

LICENSED PROFESSIONAL

KHA PROJECT			
DATE		SCALE	AS SHOWN
		DESIGNED BY	
		DRAWN BY	
		CHECKED BY	

DATE:

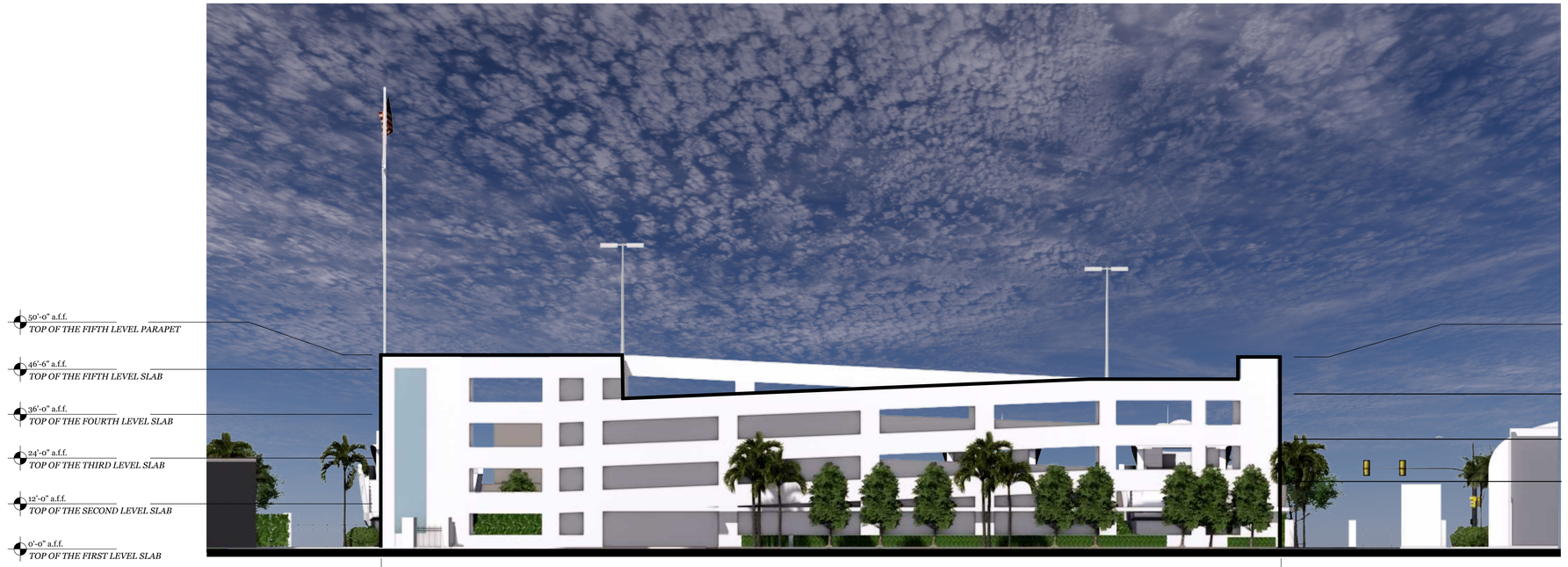
ARCHITECTURE
GARAGE FLOOR PLANS

SAFE HARBOR
RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH

SHEET NUMBER

A/2 SOUTH ELEVATION

Scale: 1/16" = 1'-0"



A/1 EAST ELEVATION

Scale: 1/16" = 1'-0"

Plotted By:Alexa, Kristen Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:L-202 LANDSCAPE PLAN June 10, 2022 06:36:02pm K:\BCD_Civil\145994004 - Safe Harbor Riviera Beach\CADD\PlanSheets\L-200 LANDSCAPE PLAN.dwg

CASE: SP-12-2014
Page 202 of 352

No.	REVISIONS	DATE	BY

Kimley»Horn

Song + Associates, Inc.
Architecture • Planning • Interior Design

LICENSED PROFESSIONAL
FERNANDO DOMINGUEZ
License #: AR97419
DATE:

S+A PROJECT 22006
DATE JUNE 2022
SCALE AS SHOWN
DESIGNED BY YL
DRAWN BY JC
CHECKED BY PD

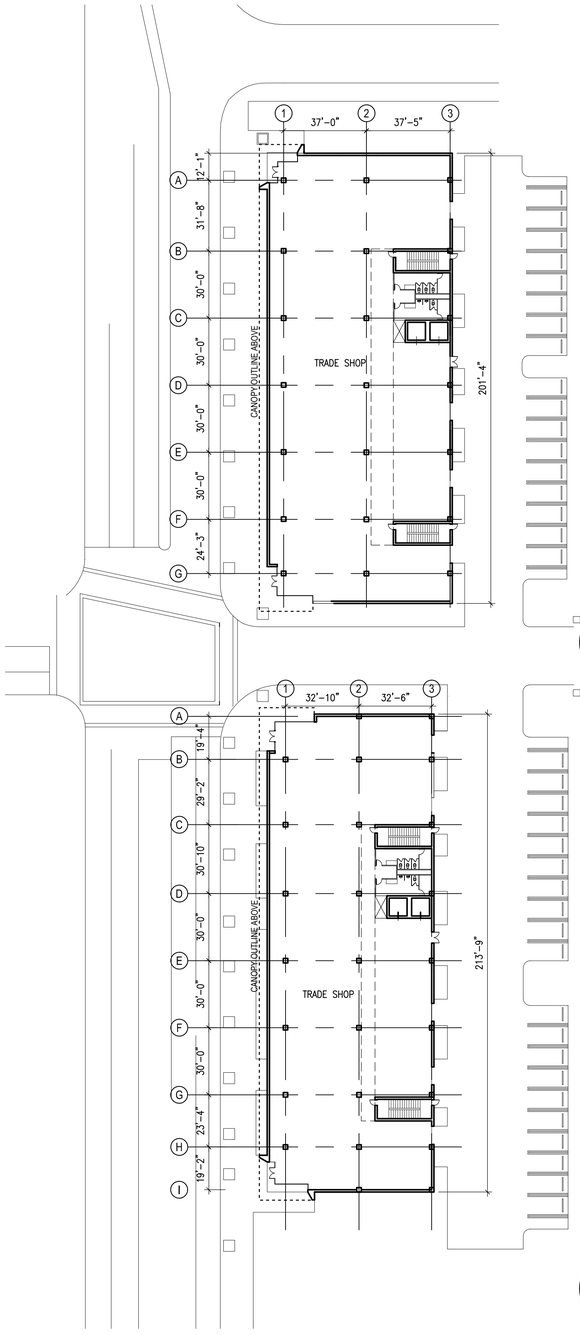
ARCHITECTURE PARKING GARAGE ELEVATIONS

SAFE HARBOR RIVIERA BEACH

PREPARED FOR
SAFE HARBOR MARINAS FL
RIVIERA BEACH

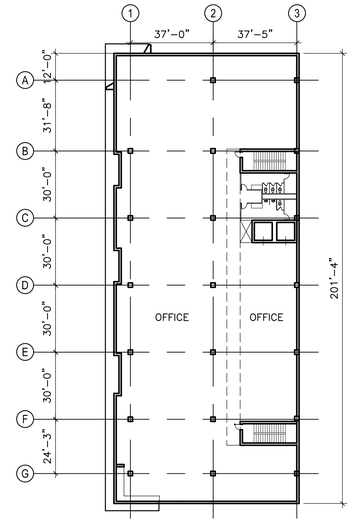
SHEET NUMBER
A-302

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

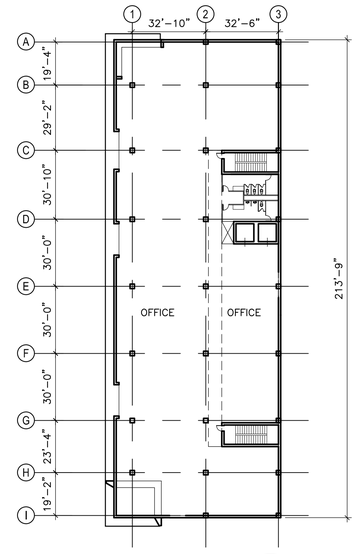


A 2 BUILDING 02

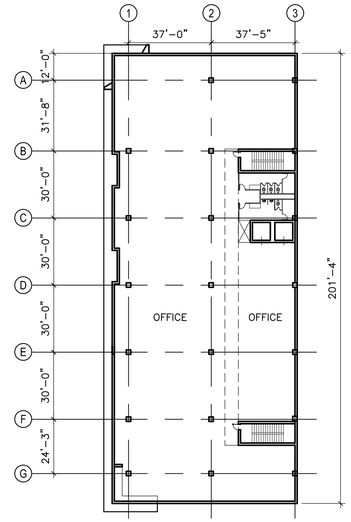
A 1 BUILDING 01



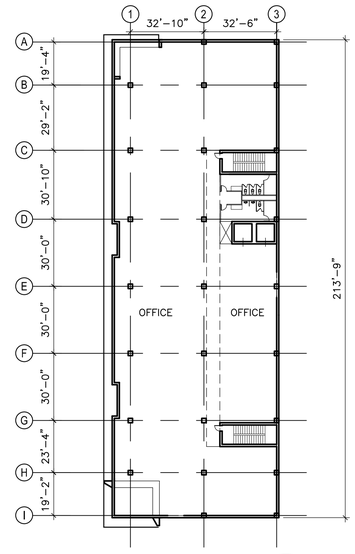
A 2 BUILDING 02



A 1 BUILDING 01



A 2 BUILDING 02



A 1 BUILDING 01

GROUND FLOOR PLANS	01	
	1/32"=1'-0"	
2ND FLOOR PLANS	02	
	1/32"=1'-0"	
3RD FLOOR PLANS	03	
	1/32"=1'-0"	

PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.52' = (NGVD 1929)

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

Always call 811 two full business days before you dig to have underground utilities located and marked.
Sunshine811.com

No.	REVISIONS	DATE	BY

Kimley»Horn

Song + Associates, Inc.
Architecture • Planning • Interior Design

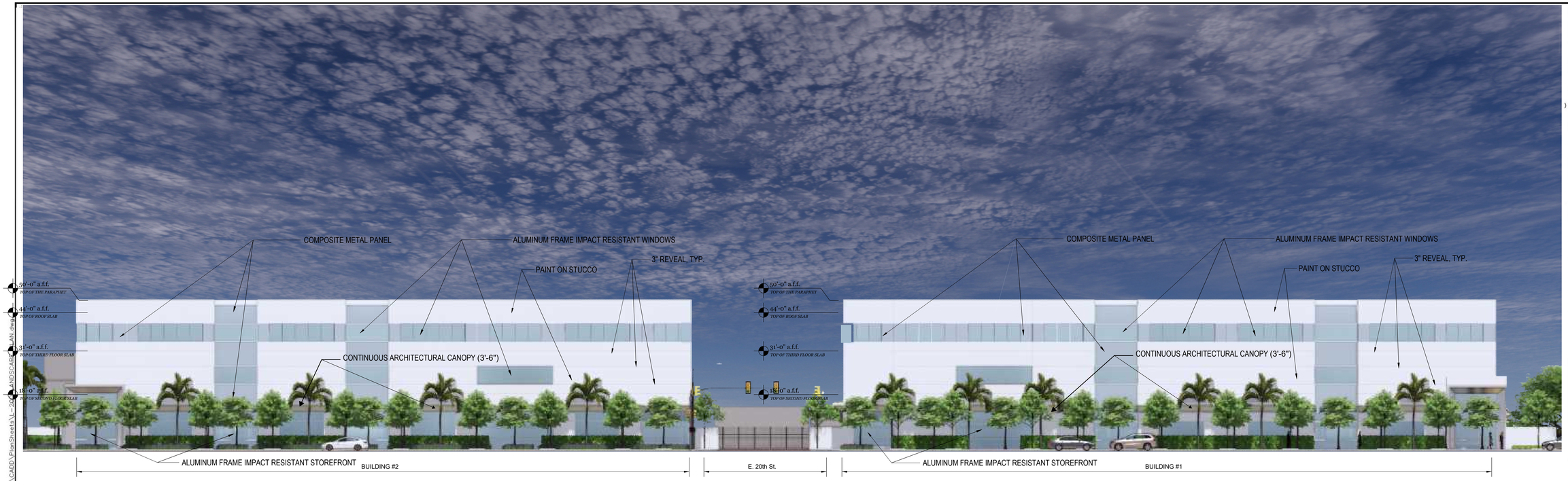
LICENSED PROFESSIONAL

KHA PROJECT	
DATE	
SCALE	AS SHOWN
DESIGNED BY	
DRAWN BY	
CHECKED BY	
DATE:	

ARCHITECTURE
BUILDING 01 & 02
FLOOR PLANS

SAFE HARBOR
RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH

SHEET NUMBER



A/1 BROAWAY FACADE - BUILDING #1 & #2

Scale: 1/16" = 1'-0"

A/2 PERSPECTIVE - BROADWAY NORTH BOUND

Scale: N/A

Plotted By:Alexa, Kristen Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:L-202 LANDSCAPE PLAN June 10, 2022 06:36:02pm K:\BCD_Civil\145994004 - Safe Harbor Riviera Beach\CADD\PlanSheets\L-202 LANDSCAPE PLAN.dwg

No.	REVISIONS	DATE	BY

Kimley»Horn

Song + Associates, Inc.
Architecture • Planning • Interior Design

LICENSED PROFESSIONAL
FERNANDO DOMINGO
License #: AR97419
DATE: ____

S+A PROJECT #2006	
DATE	JUNE 2022
SCALE	AS SHOWN
DESIGNED BY	YL
DRAWN BY	JC
CHECKED BY	PD

ARCHITECTURE
BUILDING 01 & 02
ELEVATIONS

SAFE HARBOR
RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
A-302

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

BLDG 05 - GROUND FLOOR PLAN | 01 | 1/32"=1'-0"

PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.52' = (NGVD 1929)

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

Always call 811 two full business days before you dig to have underground utilities located and marked.

Sunshine811.com

No.	REVISIONS	DATE	BY

Kimley»Horn

Song + Associates, Inc.
Architecture • Planning • Interior Design

LICENSED PROFESSIONAL

DATE:

KHA PROJECT
DATE
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

ARCHITECTURE
BLDG 05 FLOOR PLAN

SAFE HARBOR
RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH

SHEET NUMBER

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

BIRD EYE'S VIEW FROM NORTH -EAST

BIRD EYE'S VIEW FROM NORTH -WEST

BIRD EYE'S VIEW FROM WEST

BIRD EYE'S VIEW FROM SOUTH-WEST

OBSERVATION DECK

PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.52' = (NGVD 1929)

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

Always call 811 two full business days before you dig to have underground utilities located and marked.

Sunshine811.com

Kimley»Horn

Song + Associates, Inc.
Architecture • Planning • Interior Design

No.	REVISIONS	DATE	BY

LICENSED PROFESSIONAL

KHA PROJECT

DATE

SCALE AS SHOWN

DESIGNED BY

DRAWN BY

CHECKED BY

DATE:

SAFE HARBOR RIVIERA BEACH

PREPARED FOR

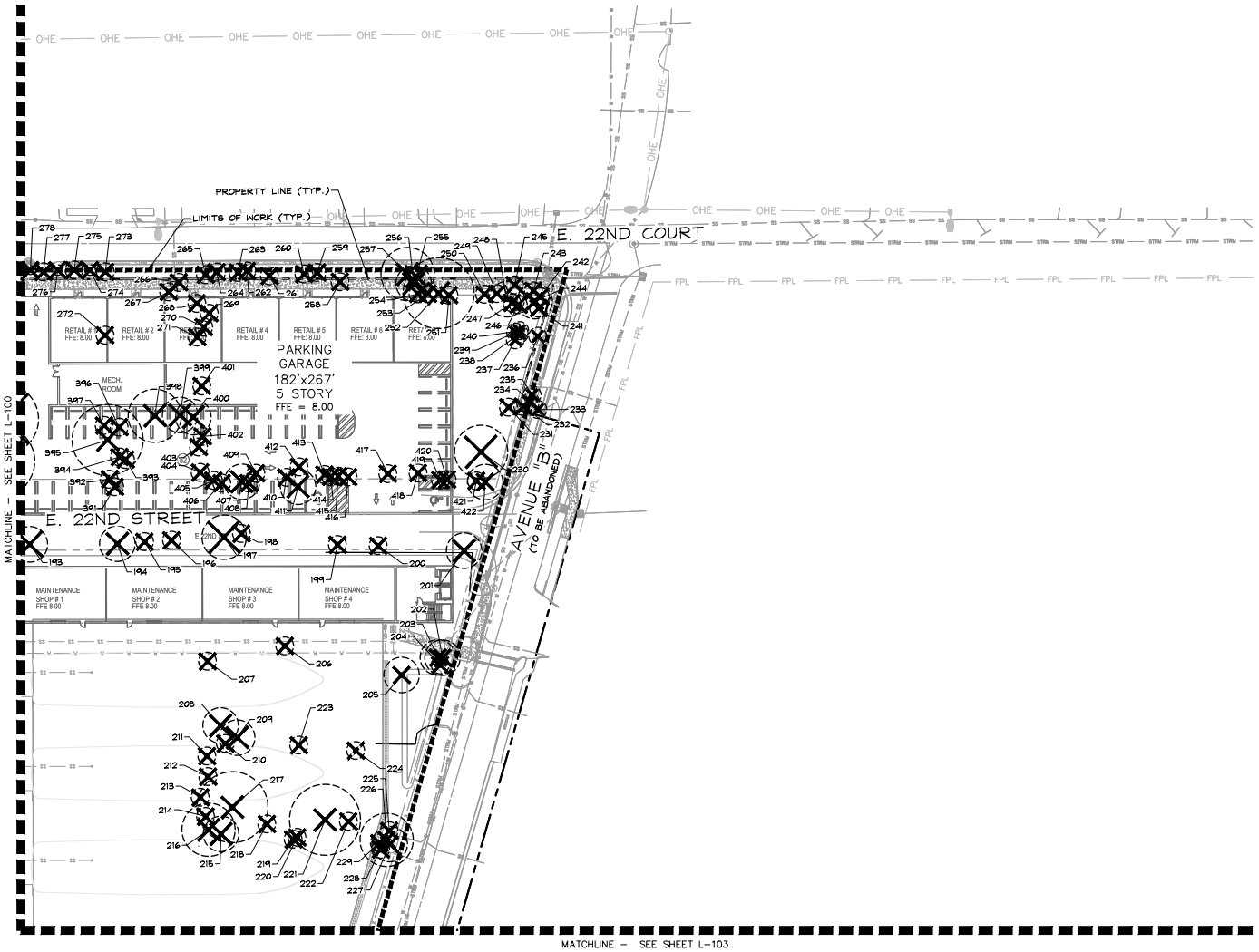
SAFE HARBOR MARINAS

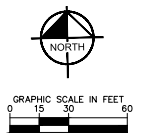
RIVIERA BEACH

RENDERING IMAGES

SHEET NUMBER

SAFE HARBOR
RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL
SHEET NUMBER
L-100
TREE DISPOSITION
PLAN
KHA PROJECT
145994004
DATE
JUNE 2022
SCALE AS SHOWN
DESIGNED BY BM
DRAWN BY BM
CHECKED BY TR
Kimley»Horn
© 2022 KIMLEY-HORN AND ASSOCIATES, INC.
Song + Associates, Inc.
Architecture • Planning • Interior Design
NO. REVISIONS DATE BY
Kristen E. Alexander, P.E.
Kimley-Horn
LA #66675555
PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.52 = (NGVD 1929)
Sunshine811.com
THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.
KEY:
TREE TO REMAIN
TREE TO BE REMOVED
TREE TO BE RELOCATED
TREE TO BE RELOCATED PER DETAIL ON SHEET L-106
NORTH
GRAPHIC SCALE IN FEET
0 15 30 60
MATCHLINE – SEE SHEET L-101
MATCHLINE – SEE SHEET L-102
BLDG 05
INDUSTRIAL
6 BAYS WITH
MEZZANINE
180'x80'
FFE = 9.63
BLDG 04
MAINTENANCE
56'x105'
1 STORY
FFE = 9.90
E. 22ND COURT
E. 22ND STREET
AVENUE "C"
PROPERTY LINE (TYP.)
LIMITS OF WORK (TYP.)
US HIGHWAY NO. 1 (STATE ROAD NO. 5)
OHE
AT&T
STRM
Plotted By:Kim Brenton Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:L-100 TREE DISPOSITION PLAN June 14, 2022 08:59:50am K:\BCD_Civil\145994004 - Safe Harbor Riviera Beach\CAD\PlanSheets\L-100 TREE DISPOSITION PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.





KEY:

- TREE TO REMAIN
- TREE TO BE REMOVED
- TREE TO BE RELOCATED
- TREE TO BE PROTECTED PER DETAIL ON SHEET L-106

PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.52' = (NGVD 1929)

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

Sunshine811.com

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2022 KIMLEY-HORN AND ASSOCIATES, INC.

Song + Associates, Inc.
Architecture • Planning • Interior Design

Kristen E. Alexa, PLA
Kimley-Horn
LA #6667555

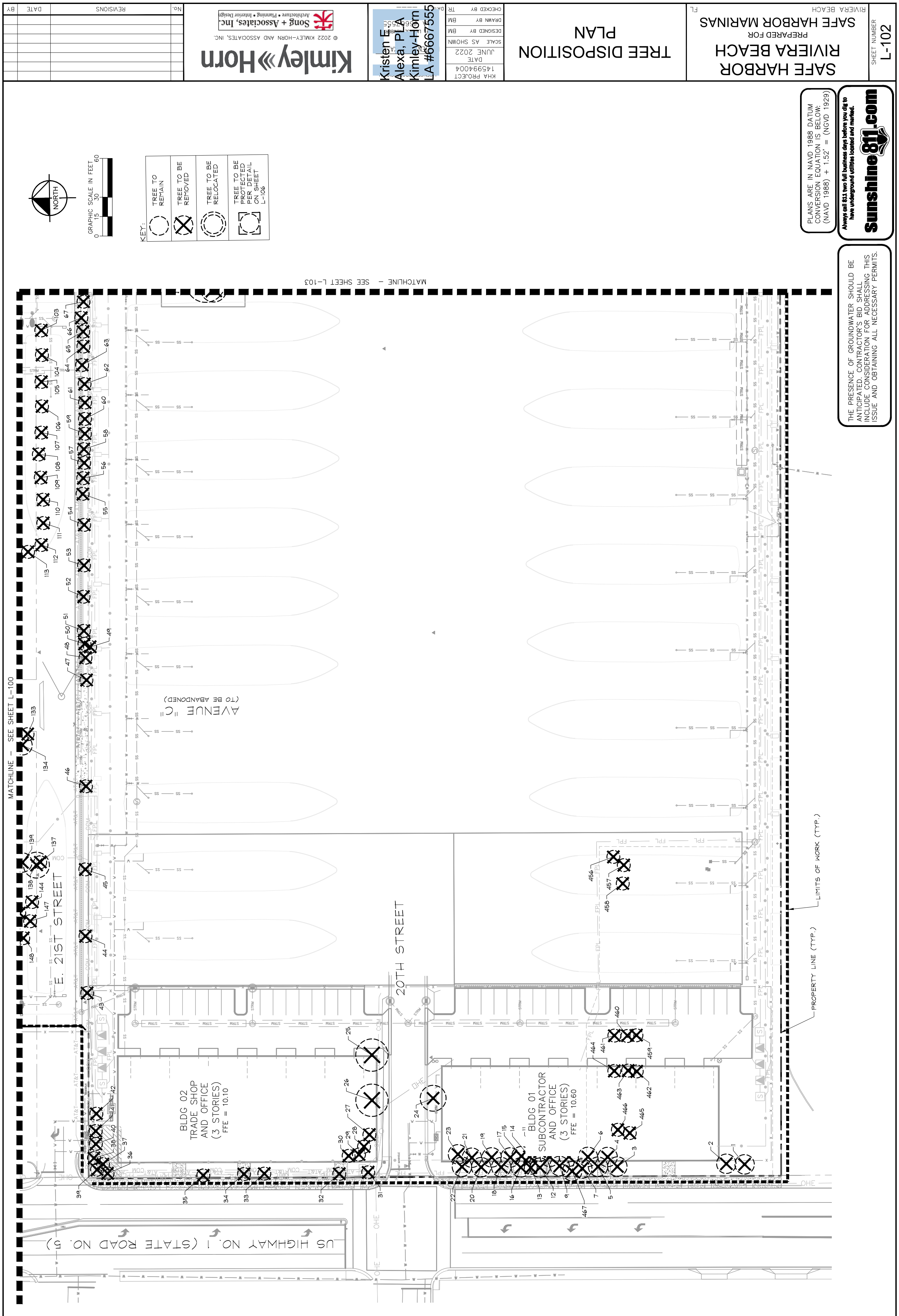
KHA PROJECT 145994004
DATE JUNE 2022
SCALE AS SHOWN
DESIGNED BY BM
DRAWN BY BM
CHECKED BY TR

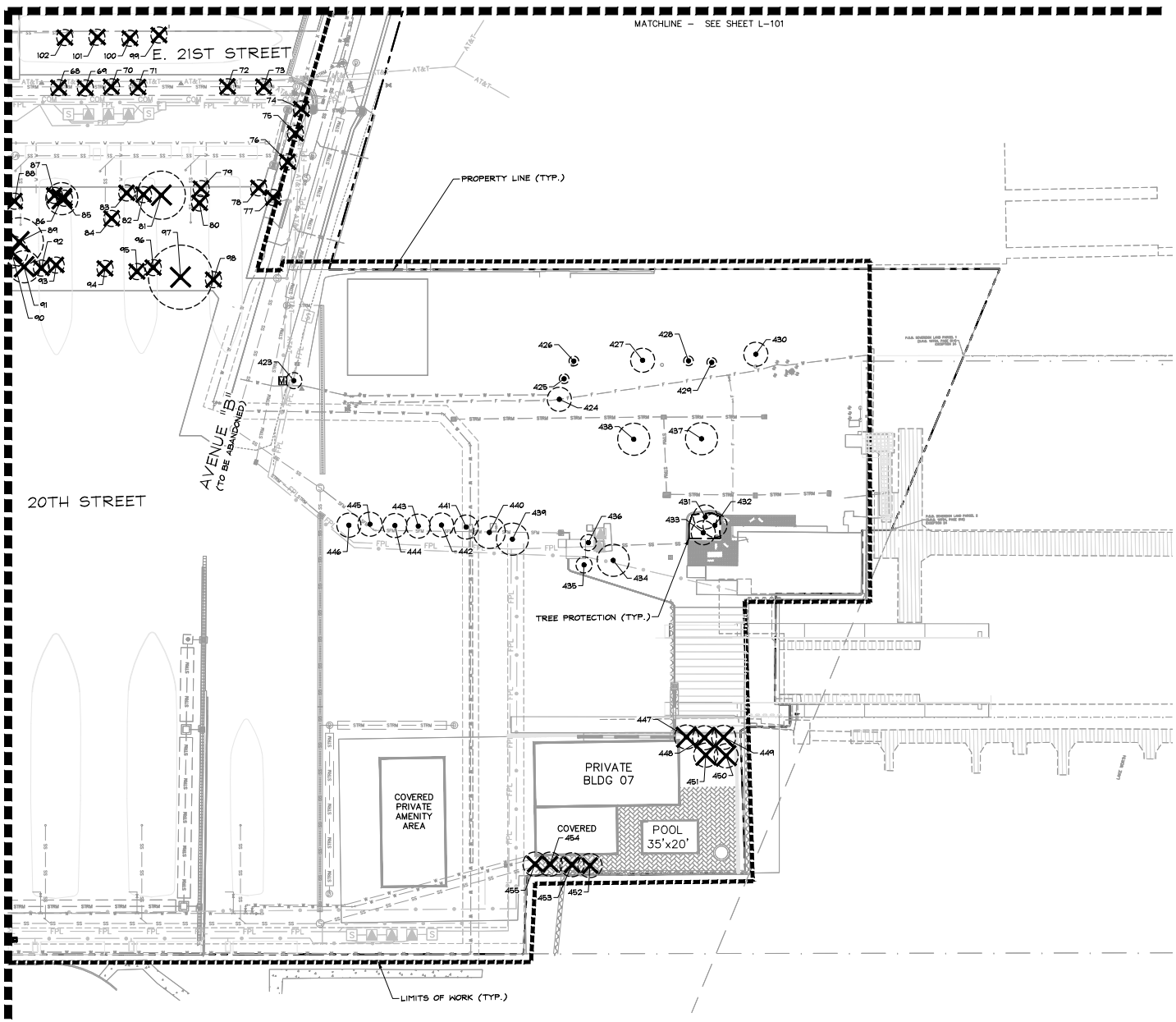
TREE DISPOSITION PLAN

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
L-101

Plotted By: Mann, Brenton Sheet Set: SAFE HARBOR RIVIERA BEACH Layout: L-101 TREE DISPOSITION PLAN June 14, 2022 06:00:03pm K:\BRD_Civil\145994004 – Safe Harbor Riviera Beach\CADD\FinalSheets\L-100 TREE DISPOSITION PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.


SAFE HARBOR
RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH
FL
TREE DISPOSITION
PLAN
SHEET NUMBER
L-102
KHA PROJECT
145994004
DATE
JUNE 2022
SCALE AS SHOWN
DESIGNED BY BM
DRAWN BY BM
CHECKED BY TR
Kimley»Horn
© 2022 KIMLEY-HORN AND ASSOCIATES, INC.
Song + Associates, Inc.
Architecture • Planning • Interior Design
Kristen E. Alexa, PLA
Kimley-Horn
LA #6667555
NO.
REVISIONS
DATE
BY
MATCHLINE - SEE SHEET L-103
MATCHLINE - SEE SHEET L-100
KEY:
TREE TO REMAIN
TREE TO BE REMOVED
TREE TO BE RELOCATED
TREE TO BE PROTECTED PER DETAIL ON SHEET L-106
GRAPHIC SCALE IN FEET
NORTH
PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.52' = (NGVD 1929)
Sunshine811.com
Always call 811 two full business days before you dig to have underground utilities located and marked.
THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.
AVENUE "C"
(TO BE ABANDONED)
E. 21ST STREET
20TH STREET
US HIGHWAY NO. 1 (STATE ROAD NO. 5)
BLDG 02
TRADE SHOP AND OFFICE
(3 STORIES)
FFE = 10.10
BLDG 01
SUBCONTRACTOR AND OFFICE
(3 STORIES)
FFE = 10.60
LIMITS OF WORK (TYP.)
PROPERTY LINE (TYP.)



PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.52' = (NGVD 1929)

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

Sunshine811.com

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2022 KIMLEY-HORN AND ASSOCIATES, INC.

Song + Associates, Inc.
Architecture • Planning • Interior Design

Kristen E. Alexa, P.E.
Kimley-Horn
FLA #6667555

KHA PROJECT 145994004
DATE JUNE 2022
SCALE AS SHOWN
DESIGNED BY BM
DRAWN BY BM
CHECKED BY TR

TREE DISPOSITION PLAN

SAFE HARBOR
RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
L-103

Plotted By:Moon, Brenton Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:L-103 TREE DISPOSITION PLAN June 14, 2022 06:00:28pm K:\BRO_Civil\145994004 – Safe Harbor Riders Beach\CADD\RionSheets\L-100 TREE DISPOSITION PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

NUMBER	NAME	BOTANICAL NAME	DIAMETER (")	SPREAD (')	HEIGHT (')	CONDITION	DISPOSITION
1	Royal Palm	*Roystonea regia*	20'	15'	30'	GOOD	REMOVE
2	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
3	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
4	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
5	Royal Palm	*Roystonea regia*	20'	15'	30'	GOOD	REMOVE
6	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
7	Oleander Tree	*Nerium oleander*	5"	15'	15'	GOOD	REMOVE
8	Royal Palm	*Roystonea regia*	10'	15'	30'	FAIR	REMOVE
9	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
10	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
11	Oleander Tree	*Nerium oleander*	4"	10'	15'	GOOD	REMOVE
12	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
13	Oleander Tree	*Nerium oleander*	4"	10'	15'	GOOD	REMOVE
14	Oleander Tree	*Nerium oleander*	5"	10'	15'	FAIR	REMOVE
15	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
16	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
17	Royal Palm	*Roystonea regia*	20'	15'	30'	GOOD	REMOVE
18	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
19	Royal Palm	*Roystonea regia*	20'	15'	30'	GOOD	REMOVE
20	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
21	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
22	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
23	Royal Palm	*Roystonea regia*	15'	15'	25'	GOOD	REMOVE
24	Gumbo Limbo	*Bursera simaruba*	10"	20'	25'	GOOD	REMOVE
25	Mahogany Tree	*Swietenia mahogani*	22"	25'	25'	GOOD	REMOVE
26	Mahogany Tree	*Swietenia mahogani*	22"	25'	25'	GOOD	REMOVE
27	Cabbage Palm	*Sabal palmetto*	15'	10'	25'	GOOD	REMOVE
28	Oleander Tree	*Nerium oleander*		10'	10'	GOOD	REMOVE
29	Oleander Tree	*Nerium oleander*		10'	10'	GOOD	REMOVE
30	Oleander Tree	*Nerium oleander*		10'	10'	GOOD	REMOVE
31	Cabbage Palm	*Sabal palmetto*	15'	10'	25'	GOOD	REMOVE
32	Cabbage Palm	*Sabal palmetto*	15'	10'	25'	GOOD	REMOVE
33	Cabbage Palm	*Sabal palmetto*	15'	10'	25'	GOOD	REMOVE
34	Oleander Tree	*Nerium oleander*	4"	10'	10'	GOOD	REMOVE
35	Cabbage Palm	*Sabal palmetto*	15'	10'	25'	FAIR	REMOVE
36	Hibiscus	*Hibiscus rosa-sinensis*	3"	10'	10'	FAIR	REMOVE
37	Hibiscus	*Hibiscus rosa-sinensis*	3"	10'	10'	FAIR	REMOVE
38	Hibiscus	*Hibiscus rosa-sinensis*	3"	10'	10'	FAIR	REMOVE
39	Cabbage Palm	*Sabal palmetto*	15'	10'	25'	GOOD	REMOVE
40	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	4"	10'	10	GOOD	REMOVE
41	Cabbage Palm	*Sabal palmetto*	15'	10'	25'	GOOD	REMOVE
42	Jatropha	*Jatropha integerirma*	4"	10'	10'	GOOD	REMOVE
43	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	4"	10'	10	FAIR	REMOVE
44	Hibiscus	*Hibiscus rosa-sinensis*	4"	10'	10'	FAIR	REMOVE
45	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	10'	10	FAIR	REMOVE
46	Hibiscus	*Hibiscus rosa-sinensis*	3"	10'	10'	FAIR	REMOVE
47	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	10'	10	FAIR	REMOVE
48	Hibiscus	*Hibiscus rosa-sinensis*	3"	10'	10'	FAIR	REMOVE
49	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	10'	10	FAIR	REMOVE
50	Hibiscus	*Hibiscus rosa-sinensis*	3"	10'	10'	FAIR	REMOVE
51	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
52	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
53	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
54	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
55	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
56	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
57	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
58	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
59	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
60	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
61	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
62	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
63	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
64	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
65	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
66	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
67	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
68	Christmas Palm	*Adonidia merrillii*	10'	10'	15'	GOOD	REMOVE
69	Christmas Palm	*Adonidia merrillii*	10'	10'	15'	GOOD	REMOVE
70	Christmas Palm	*Adonidia merrillii*	10'	10'	15'	GOOD	REMOVE
71	Christmas Palm	*Adonidia merrillii*	10'	10'	15'	GOOD	REMOVE
72	Christmas Palm	*Adonidia merrillii*	10'	10'	15'	GOOD	REMOVE
73	Christmas Palm	*Adonidia merrillii*	10'	10'	15'	GOOD	REMOVE
74	Christmas Palm	*Adonidia merrillii*	10'	10'	15'	GOOD	REMOVE
75	Christmas Palm	*Adonidia merrillii*	10'	10'	15'	GOOD	REMOVE
76	Christmas Palm	*Adonidia merrillii*	10'	10'	15'	GOOD	REMOVE
77	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	POOR	REMOVE
78	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
79	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
80	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
81	Live Oak	*Quercus virginiana*	32"	30'	35'	FAIR	REMOVE
82	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
83	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
84	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
85	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
86	Mango Tree	*Mangifera indica*	10"	20'	25'	GOOD	REMOVE
87	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
88	Mango Tree	*Mangifera indica*	11"	10'	25'	FAIR	REMOVE
89	Mango Tree	*Mangifera indica*	16"	30'	25'	GOOD	REMOVE
90	Mango Tree	*Mangifera indica*	17"	20'	25'	GOOD	REMOVE
91	Mango Tree	*Mangifera indica*	14"	20'	25'	GOOD	REMOVE
92	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
93	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	FAIR	REMOVE
94	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	FAIR	REMOVE
95	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
96	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
97	Live Oak	*Quercus virginiana*	18"	40'	30'	GOOD	REMOVE
98	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
99	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
100	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE

NUMBER	NAME	BOTANICAL NAME	DIAMETER (")	SPREAD (')	HEIGHT (')	CONDITION	DISPOSITION
101	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
102	Frangipani	*Plumeria alba*	6"	10'	20'	FAIR	REMOVE
103	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
104	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
105	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
106	Cabbage Palm	*Sabal palmetto*	16'	10'	20'	GOOD	REMOVE
107	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
108	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
109	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
110	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
111	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
112	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
113	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
114	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
115	Mango Tree	*Mangifera indica*	17"	20'	25'	GOOD	REMOVE
116	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	FAIR	REMOVE
117	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
118	Mango Tree	*Mangifera indica*	8"	10'	20'	GOOD	REMOVE
119	Mango Tree	*Mangifera indica*	15"	15'	20'	GOOD	REMAIN
120	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
121	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
122	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
123	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
124	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
125	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	FAIR	REMOVE
126	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	FAIR	REMOVE
127	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	FAIR	REMOVE
128	Live Oak	*Quercus virginiana*	13"	20'	26'	FAIR	REMOVE
129	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
130	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
131	Banyan Tree	*Ficus benghalensis*	28"	20'	25'	PROHIBITED	REMOVE
132	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
133	Solitaire Palm	*Pttychosperma elegans*	5'	10'	10'	GOOD	REMOVE
134	Gumbo Limbo	*Bursera simaruba*	10"	15'	15'	GOOD	REMOVE
135	Coconut Palm	*Cocos nucifera*	15'	15'	25'	GOOD	REMOVE
136	Coconut Palm	*Cocos nucifera*	15'	15'	25'	GOOD	REMOVE
137	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
138	Mango Tree	*Mangifera indica*	15"	20'	20'	GOOD	REMOVE
139	Coconut Palm	*Cocos nucifera*	20'	15'	30'	GOOD	REMOVE
140	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
141	Mango Tree	*Mangifera indica*	8"	10'	20'	GOOD	REMOVE
142	Mango Tree	*Mangifera indica*	9"	10'	20'	GOOD	REMOVE
143	Mango Tree	*Mangifera indica*	9"	10'	20'	GOOD	REMOVE
144	Mexican Fan Palm	*Washingtonia ribusta*	20'	10'	25'	GOOD	REMOVE
145	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
146	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
147	Mexican Fan Palm	*Washingtonia ribusta*	5'	10'	10'	GOOD	REMOVE
148	Palm	*Unknown*	5'	10'	10'	FAIR	REMOVE
149	Palm	*Unknown*	5'	10'	10'	FAIR	REMOVE
150	Palm	*Unknown*	5'	10'	10'	FAIR	REMOVE
151	Palm	*Unknown*	5'	10'	10'	FAIR	REMOVE
152	Palm	*Unknown*	5'	10'	10'	FAIR	REMOVE
153	Palm	*Unknown*	5'	10'	10'	FAIR	REMOVE
154	Palm	*Unknown*	5'	10'	10'	FAIR	REMOVE
155	Palm	*Unknown*	5'	10'	10'	FAIR	REMOVE
156	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
157	Unknown	*Unknown*				POOR	REMOVE
158	Unknown	*Unknown*				POOR	REMOVE
159	Queen Palm	*Syagrus romanzoffiana*	10'	10'	15'	FAIR	REMOVE
160	Queen Palm	*Syagrus romanzoffiana*	15'	10'	20'	FAIR	REMOVE
161	Queen Palm	*Syagrus romanzoffiana*	15'	10'	20'	FAIR	REMOVE
162	Solitaire Palm	*Pttychosperma elegans*	10'	10'	10'	GOOD	REMOVE
170	Areca Palm	*Dypsis lutescens*		10'	15'	GOOD	REMOVE
171	Live Oak	*Quercus virginiana*	12"	20'	20'	GOOD	REMOVE
172	Royal Poinciana	*Delonix regia*	10"	15'	20'	GOOD	REMOVE
173	Japanese Blueberry	*Eleocarpus deipiens*	17"	20'	20'	GOOD	REMOVE
174	Gumbo Limbo	*Bursera simaruba*	12"	20'	20'	GOOD	REMOVE
175	Gumbo Limbo	*Bursera simaruba*	16"	15'	20'	POOR	REMOVE
176	Gumbo Limbo	*Bursera simaruba*	11"	20'	20'	FAIR	REMOVE
177	Coconut Palm	*Cocos nucifera*	15'	15'	25'	FAIR	REMOVE
178	Coconut Palm	*Cocos nucifera*	15'	15'	25'	GOOD	REMOVE
179	Coconut Palm	*Cocos nucifera*	15'	15'	25'	GOOD	REMOVE
180	Coconut Palm	*Cocos nucifera*	10'	15'	20'	GOOD	REMOVE
181	Coconut Palm	*Cocos nucifera*	10'	15'	20'	GOOD	REMOVE
182	Jatropha	*Jatropha integerirma*	4"	10'	10'	GOOD	REMOVE
183	Coconut Palm	*Cocos nucifera*	10'	15'	20'	GOOD	REMOVE
184	Jatropha	*Jatropha integerirma*	4"	10'	10'	GOOD	REMOVE
185	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
186	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
187	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
188	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
189	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
190	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
191	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
192	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
193	Gumbo Limbo	*Bursera simaruba*	12"	20'	20'	FAIR	REMOVE
194	Gumbo Limbo	*Bursera simaruba*	10"	20'	20'	GOOD	REMOVE
195	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
196	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
197	Live Oak	*Quercus virginiana*	17"	25'	30'	GOOD	REMOVE
198	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
199	Unknown	*Unknown*	6"	10'	10'	FAIR	REMOVE
200	Unknown	*Unknown*	8"	10'	10'	FAIR	REMOVE

PLANS ARE IN NAVD 1988 DATUM CONVERSION EQUATION IS BELOW: (NAVD 1988) + 1.52' = (NGVD 1929)

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

Sunshine811.com

Kimley»Horn

© 2022 KIMLEY-HORN AND ASSOCIATES, INC.

Song + Associates, Inc.
Architecture • Planning • Interior Design

No.	REVISIONS	DATE	BY

Kristen E. Alexa, PE
Kimley-Horn
FL #6667555

KHA PROJECT 145994004
DATE JUNE 2022
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

TREE DISPOSITION PLAN

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
L-104

Plotted By: Moore, Brenton Sheet Set: SAFE HARBOR RIVIERA BEACH Layout: L-104_TREE DISPOSITION PLAN June 14, 2022 - 06:00:34pm K:\BRO_Civil\145994004 - Safe Harbor Riviera Beach\CADD\PrintSheets\L-100_TREE DISPOSITION PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. and be without liability to Kimley-Horn and Associates, Inc.

NUMBER	NAME	BOTANICAL NAME	DIAMETER (")	SPREAD (')	HEIGHT (')	CONDITION	DISPOSITION
201	Unknown	*Unknown*	14"	20'	20'	FAIR	REMOVE
202	Live Oak	*Quercus virginiana*	11"	20'	20'	FAIR	REMOVE
203	Live Oak	*Quercus virginiana*	14"	20'	20'	FAIR	REMOVE
204	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
205	Live Oak	*Quercus virginiana*	12"	20'	20'	GOOD	REMOVE
206	Unknown	*Unknown*	3"	10'	20'	FAIR	REMOVE
207	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
208	Mango Tree	*Mangifera indica*	12"	20'	25'	GOOD	REMOVE
209	Mango Tree	*Mangifera indica*	15"	20'	25'	GOOD	REMOVE
210	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	POOR	REMOVE
211	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	FAIR	REMOVE
212	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
213	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
214	Cabbage Palm	*Sabal palmetto*	5'	10'	10'	FAIR	REMOVE
215	Cabbage Palm	*Sabal palmetto*	5'	10'	10'	FAIR	REMOVE
216	Live Oak	*Quercus virginiana*	20"	30'	30'	GOOD	REMOVE
217	Live Oak	*Quercus virginiana*	17"	40'	30'	GOOD	REMOVE
218	Cabbage Palm	*Sabal palmetto*	5'	10'	10'	FAIR	REMOVE
219	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
220	Cabbage Palm	*Sabal palmetto*	16'	10'	20'	GOOD	REMOVE
221	Live Oak	*Quercus virginiana*	24"	40'	30'	GOOD	REMOVE
222	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	FAIR	REMOVE
223	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
224	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
225	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
226	Live Oak	*Quercus virginiana*	15"	30'	30'	FAIR	REMOVE
227	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
228	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
229	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
230	Live Oak	*Quercus virginiana*	18"	30'	30'	GOOD	REMOVE
231	Cabbage Palm	*Sabal palmetto*	15'	10'	25'	GOOD	REMOVE
232	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
233	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
234	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
235	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
236	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
237	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
238	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
239	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
240	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
241	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
242	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
243	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
244	Unknown	*Unknown*	10"	20'	20'	POOR	REMOVE
245	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
246	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
247	Umbrella Tree	*Schefflera actinophylla*	16"	10'	15'	INVASIVE	REMOVE
248	Gumbo Limbo	*Bursera simaruba*	11"	20'	20'	GOOD	REMOVE
249	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
250	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
251	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
252	Mango Tree	*Mangifera indica*	21"	40'	30'	GOOD	REMOVE
253	Areca Palm	*Dypsis lutescens*		10'	10'	FAIR	REMOVE
254	Umbrella Tree	*Schefflera actinophylla*		10'	15'	GOOD	REMOVE
255	Mango Tree	*Mangifera indica*	14"	20'	30'	INVASIVE	REMOVE
256	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
257	Live Oak	*Quercus virginiana*	12"	30'	30'	FAIR	REMOVE
258	Banyan Tree	*Ficus benghalensis*	6"	10'	15'	PROHIBITED	REMOVE
259	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
260	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
261	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
262	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
263	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
264	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
265	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
266	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
267	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
268	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
269	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
270	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
271	Unknown	*Unknown*		10'	15'	GOOD	REMOVE
272	Cabbage Palm	*Sabal palmetto*	10'	10'	20'	GOOD	REMOVE
273	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
274	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	2"	5'	10'	GOOD	REMOVE
275	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
276	Unknown	*Unknown*	3"	6'	10'	FAIR	REMOVE
277	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
278	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	2"	5'	10'	GOOD	REMOVE
279	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
280	Unknown	*Unknown*	3"	6'	10'	GOOD	REMOVE
281	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
282	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
283	Cabbage Palm	*Sabal palmetto*	10'	10'	10'	GOOD	REMOVE
284	Unknown	*Unknown*	2"	6'	10'	FAIR	REMOVE
285	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
286	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
287	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
288	Unknown	*Unknown*	3"	6'	10'	GOOD	REMOVE
289	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
290	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	2"	6'	10'	GOOD	REMOVE
291	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
292	Gumbo Limbo	*Bursera simaruba*	10"	20'	20'	GOOD	REMOVE
293	Unknown	*Unknown*	3"	6'	10'	GOOD	REMOVE
294	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
295	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	2"	6'	10'	GOOD	REMOVE
296	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
297	Unknown	*Unknown*	3"	6'	10'	GOOD	REMOVE
298	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
299	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	2"	6'	10'	GOOD	REMOVE
300	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE

NUMBER	NAME	BOTANICAL NAME	DIAMETER (")	SPREAD (')	HEIGHT (')	CONDITION	DISPOSITION
301	Unknown	*Unknown*	3"	6'	10'	GOOD	REMOVE
302	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
303	Live Oak	*Quercus virginiana*	12"	30'	30'	GOOD	REMOVE
304	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
305	Unknown	*Unknown*	3"	6'	10'	FAIR	REMOVE
306	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
307	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
308	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
309	Unknown	*Unknown*	3"	6'	10'	GOOD	REMOVE
310	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
311	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
312	Cabbage Palm	*Sabal palmetto*	10'	10'	10'	DEAD	REMOVE
313	Unknown	*Unknown*	3"	6'	10'	FAIR	REMOVE
314	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
315	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
316	Cabbage Palm	*Sabal palmetto*	10'	10'	10'	GOOD	REMOVE
317	Unknown	*Unknown*	3"	6'	10'	GOOD	REMOVE
318	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
319	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
320	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
321	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
322	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
323	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
324	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
325	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
326	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
327	Unknown	*Unknown*	3"	6'	10'	GOOD	REMOVE
328	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
329	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
330	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
331	Unknown	*Unknown*	4"	6'	10'	GOOD	REMOVE
332	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
333	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
334	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
335	Unknown	*Unknown*	5"	15'	15'	GOOD	REMOVE
336	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
337	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
338	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
339	Unknown	*Unknown*	4"	6'	10'	GOOD	REMOVE
340	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
341	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
342	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
343	Unknown	*Unknown*	4"	6'	10'	GOOD	REMOVE
344	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
345	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
346	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
347	Unknown	*Unknown*	5"	6'	10'	FAIR	REMOVE
348	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
349	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
350	Unknown	*Unknown*	4"	6'	10'	GOOD	REMOVE
351	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
352	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
353	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
354	Unknown	*Unknown*	6"	6'	10'	GOOD	REMOVE
355	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
356	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
357	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
358	Unknown	*Unknown*	5"	6'	10'	GOOD	REMOVE
359	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
360	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
361	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
362	Unknown	*Unknown*	3"	6'	10'	GOOD	REMOVE
363	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
364	Silver Buttonwood	*Conoccarpus erectus (sericeus)*	3"	6'	10'	GOOD	REMOVE
365	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
366	Mango Tree	*Mangifera indica*		20'	25'		REMOVE
367	Mango Tree	*Mangifera indica*		20'	25'		REMOVE
368	Christmas Palm	*Adonidia merrillii*	15'	10'	20'		REMOVE
369	Christmas Palm	*Adonidia merrillii*	15'	10'	20'		REMOVE
370	Christmas Palm	*Adonidia merrillii*	15'	10'	20'		REMOVE
371	Christmas Palm	*Adonidia merrillii*	15'	10'	20'		REMOVE
372	Christmas Palm	*Adonidia merrillii*	10'	10'	15'		REMOVE
373	Christmas Palm	*Adonidia merrillii*	10'	10'	15'		REMOVE
374	Live Oak	*Quercus virginiana*	9"	20'	25'		REMOVE
375	Christmas Palm	*Adonidia merrillii*	10'	10'	15'		REMOVE
376	Cabbage Palm	*Sabal palmetto*	10'	10'	15'	GOOD	REMOVE
377	Gumbo Limbo	*Bursera simaruba*	16"	20'	25'	GOOD	REMOVE
378	Live Oak	*Quercus virginiana*	10"	30'	30'	GOOD	REMOVE
379	Live Oak	*Quercus virginiana*	5"	15'	20'	FAIR	REMOVE
380	Live Oak	*Quercus virginiana*	7"	15'	20'	FAIR	REMOVE
381	Live Oak	*Quercus virginiana*	11"	15'	25'	GOOD	REMOVE
382	Live Oak	*Quercus virginiana*	13"	20'	25'	GOOD	REMOVE
383	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
384	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
385	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMOVE
386	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
387	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
388	Live Oak	*Quercus virginiana*	22"	40'	30'	GOOD	REMOVE
389	Live Oak	*Quercus virginiana*	24"	40'	30'	GOOD	REMOVE
390	Live Oak	*Quercus virginiana*	22"	40'	30'	GOOD	REMOVE
391	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
392	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
393	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
394	Cabbage Palm	*Sabal palmetto*	15'	10'	20'	GOOD	REMOVE
395	Live Oak	*Quercus virginiana*	42"	40'	30'	GOOD	REMOVE
396	Live Oak	*Quercus virginiana*	5"	10'	15'	FAIR	REMOVE
397	Live Oak	*Quercus virginiana*	7"	10'	15'	FAIR	REMOVE
398	Mango Tree	*Mangifera indica*	12"	30'	30'	GOOD	REMOVE
399	Umbrella Tree	*Schefflera actinophylla*	21"	20'	20'	INVASIVE	REMOVE
400	Mango Tree	*Mangifera indica*	14"	20'	25'	POOR	REMOVE

PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.52' = (NGVD 1929)

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

Sunshine811.com

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2022 KIMLEY-HORN AND ASSOCIATES, INC.

Song + Associates, Inc.
Architecture • Planning • Interior Design

Kristen E. Alexa, PLA
Kimley-Horn
LA #6667555

KHA PROJECT 145994004
DATE JUNE 2022
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

TREE DISPOSITION PLAN

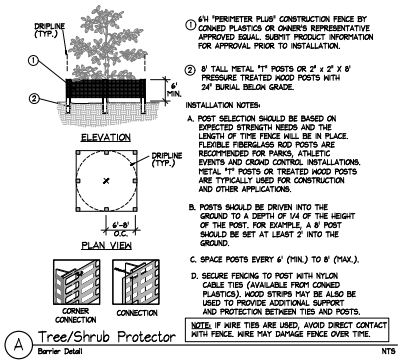
SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
L-105

Plotted By:Moro, Brenton Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:L-105_TREE DISPOSITION PLAN June 14, 2022 - 06:00:44pm K:\BRO_Civil\145994004 - Safe Harbor Riviera Beach\Civil\DWG\PlanSheets\L-100_TREE DISPOSITION PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. and be without liability to Kimley-Horn and Associates, Inc.

CASE: SP-22-0014
Page 212 of 352

NUMBER	NAME	BOTANICAL NAME	DIAMETER (")	SPREAD (')	HEIGHT (')	CONDITION	DISPOSITION
401	**Cabbage Palm**	***Sabal palmetto***	**10"**	**10'**	**15'**	**GOOD**	**REMOVE**
402	**Cabbage Palm**	***Sabal palmetto***	**5'**	**10'**	**10'**	**GOOD**	**REMOVE**
403	**Cabbage Palm**	***Sabal palmetto***	**15'**	**10'**	**20'**	**GOOD**	**REMOVE**
404	**Cabbage Palm**	***Sabal palmetto***	**15'**	**10'**	**20'**	**GOOD**	**REMOVE**
405	**Cabbage Palm**	***Sabal palmetto***	**10'**	**10'**	**15'**	**GOOD**	**REMOVE**
406	**Cabbage Palm**	***Sabal palmetto***	**10'**	**10'**	**15'**	**GOOD**	**REMOVE**
407	**Gumbo Limbo**	***Bursera simaruba***	**11"**	**20'**	**25'**	**GOOD**	**REMOVE**
408	**Cabbage Palm**	***Sabal palmetto***	**15'**	**10'**	**20'**	**GOOD**	**REMOVE**
409	**Cabbage Palm**	***Sabal palmetto***	**5'**	**10'**	**10'**	**GOOD**	**REMOVE**
410	**Cabbage Palm**	***Sabal palmetto***	**15'**	**10'**	**20'**	**GOOD**	**REMOVE**
411	**Live Oak**	***Quercus virginiana***	**17"**	**20'**	**30'**	**GOOD**	**REMOVE**
412	**Cabbage Palm**	***Sabal palmetto***	**10'**	**10'**	**15'**	**GOOD**	**REMOVE**
413	**Cabbage Palm**	***Sabal palmetto***	**5'**	**10'**	**10'**	**GOOD**	**REMOVE**
414	**Cabbage Palm**	***Sabal palmetto***	**5'**	**10'**	**10'**	**GOOD**	**REMOVE**
415	**Cabbage Palm**	***Sabal palmetto***	**5'**	**10'**	**10'**	**GOOD**	**REMOVE**
416	**Cabbage Palm**	***Sabal palmetto***	**5'**	**10'**	**10'**	**GOOD**	**REMOVE**
417	**Cabbage Palm**	***Sabal palmetto***	**5'**	**10'**	**10'**	**GOOD**	**REMOVE**
418	**Cabbage Palm**	***Sabal palmetto***	**10'**	**10'**	**15'**	**GOOD**	**REMOVE**
419	**Cabbage Palm**	***Sabal palmetto***	**10'**	**10'**	**15'**	**GOOD**	**REMOVE**
420	**Cabbage Palm**	***Sabal palmetto***	**10'**	**10'**	**15'**	**GOOD**	**REMOVE**
421	**Cabbage Palm**	***Sabal palmetto***	**5'**	**10'**	**10'**	**GOOD**	**REMOVE**
422	**Gumbo Limbo**	***Bursera simaruba***	**16"**	**20'**	**25'**	**GOOD**	**REMOVE**
423	Cabbage Palm	*Sabal palmetto*	20'	10'	25'	GOOD	REMAIN
424	Coconut Palm	*Cocos nucifera*	15'	15'	25'	GOOD	REMAIN
425	Jatropha	*Jatropha integerinma*	3"	6'	10'	FAIR	REMAIN
426	Jatropha	*Jatropha integerinma*	3"	6'	10'	GOOD	REMAIN
427	Coconut Palm	*Cocos nucifera*	15'	15'	25'	GOOD	REMAIN
428	Jatropha	*Jatropha integerinma*	3"	6'	10'	GOOD	REMAIN
429	Jatropha	*Jatropha integerinma*	3"	6'	10'	GOOD	REMAIN
430	Coconut Palm	*Cocos nucifera*	15'	15'	25'	GOOD	REMAIN
431	Coconut Palm	*Cocos nucifera*	20'	15'	30'	GOOD	REMAIN
432	Coconut Palm	*Cocos nucifera*	20'	15'	30'	GOOD	REMAIN
433	Coconut Palm	*Cocos nucifera*	20'	15'	30'	GOOD	REMAIN
434	Live Oak	*Quercus virginiana*	10"	20'	25'	GOOD	REMAIN
435	Jatropha	*Jatropha integerinma*	3"	10'	10'	GOOD	REMAIN
436	Pygmy Date Palm	*Phoenix roebelenii*	3'	10'	10'	GOOD	REMAIN
437	Live Oak	*Quercus virginiana*	8"	20'	20'	FAIR	REMAIN
438	Live Oak	*Quercus virginiana*	10"	20'	20'	FAIR	REMAIN
439	Coconut Palm	*Cocos nucifera*	10'	15'	20'	GOOD	REMAIN
440	Coconut Palm	*Cocos nucifera*	10'	15'	20'	GOOD	REMAIN
441	Coconut Palm	*Cocos nucifera*	10'	15'	20'	GOOD	REMAIN
442	Coconut Palm	*Cocos nucifera*	10'	15'	20'	GOOD	REMAIN
443	Coconut Palm	*Cocos nucifera*	10'	15'	20'	GOOD	REMAIN
444	Coconut Palm	*Cocos nucifera*	10'	15'	20'	GOOD	REMAIN
445	Coconut Palm	*Cocos nucifera*	10'	15'	20'	GOOD	REMAIN
446	Coconut Palm	*Cocos nucifera*	10'	15'	20'	GOOD	REMAIN
447	**Coconut Palm**	***Cocos nucifera***	**10'**	**15'**	**20'**	**GOOD**	**REMOVE**
448	**Coconut Palm**	***Cocos nucifera***	**10'**	**15'**	**20'**	**GOOD**	**REMOVE**
449	**Coconut Palm**	***Cocos nucifera***	**10'**	**15'**	**20'**	**GOOD**	**REMOVE**
450	**Coconut Palm**	***Cocos nucifera***	**10'**	**15'**	**20'**	**GOOD**	**REMOVE**
451	**Coconut Palm**	***Cocos nucifera***	**10'**	**15'**	**20'**	**GOOD**	**REMOVE**
452	**Coconut Palm**	***Cocos nucifera***	**10'**	**15'**	**20'**	**GOOD**	**REMOVE**
453	**Coconut Palm**	***Cocos nucifera***	**10'**	**15'**	**20'**	**GOOD**	**REMOVE**
454	**Coconut Palm**	***Cocos nucifera***	**10'**	**15'**	**20'**	**GOOD**	**REMOVE**
455	**Coconut Palm**	***Cocos nucifera***	**10'**	**15'**	**20'**	**GOOD**	**REMOVE**
456	**Mexican Fan Palm**	***Washingtonia ribusta***	**15'**	**10'**	**20'**	**GOOD**	**REMOVE**
457	**Mexican Fan Palm**	***Washingtonia ribusta***	**15'**	**10'**	**20'**	**GOOD**	**REMOVE**
458	**Mexican Fan Palm**	***Washingtonia ribusta***	**20'**	**10'**	**25'**	**GOOD**	**REMOVE**
459	**Mexican Fan Palm**	***Washingtonia ribusta***	**20'**	**10'**	**25'**	**GOOD**	**REMOVE**
460	**Mexican Fan Palm**	***Washingtonia ribusta***	**20'**	**10'**	**25'**	**GOOD**	**REMOVE**
461	**Mexican Fan Palm**	***Washingtonia ribusta***	**20'**	**10'**	**25'**	**GOOD**	**REMOVE**
462	**Mexican Fan Palm**	***Washingtonia ribusta***	**20'**	**10'**	**25'**	**GOOD**	**REMOVE**
463	**Mexican Fan Palm**	***Washingtonia ribusta***	**20'**	**10'**	**25'**	**GOOD**	**REMOVE**
464	**Mexican Fan Palm**	***Washingtonia ribusta***	**20'**	**10'**	**25'**	**GOOD**	**REMOVE**
465	**Jatropha**	***Jatropha integeririma***	**3"**	**10'**	**10'**	**FAIR**	**REMOVE**
466	**Jatropha**	***Jatropha integeririma***	**3"**	**10'**	**10'**	**FAIR**	**REMOVE**
467	**Unknown**	***Unknown***	**3"**	**10'**	**10'**	**DEAD**	**REMOVE**



1. 6'H 'PERIMETER PLUS' CONSTRUCTION FENCE BY CONWED PLASTICS OR OWNER'S REPRESENTATIVE APPROVED EQUAL. SUBMIT PRODUCT INFORMATION FOR APPROVAL PRIOR TO INSTALLATION.
2. 8' TALL METAL "T" POSTS OR 2" x 2" X 8' PRESSURE TREATED WOOD POSTS WITH 24" BURIAL BELOW GRADE.

INSTALLATION NOTES:

A. POST SELECTION SHOULD BE BASED ON EXPECTED STRENGTH NEEDS AND THE LENGTH OF TIME FENCE WILL BE IN PLACE. FLEXIBLE FIBERGLASS ROD POSTS ARE RECOMMENDED FOR PARKS, ATHLETIC EVENTS AND CROWD CONTROL INSTALLATIONS. METAL 'T' POSTS OR TREATED WOOD POSTS ARE TYPICALLY USED FOR CONSTRUCTION AND OTHER APPLICATIONS.

B. POSTS SHOULD BE DRIVEN INTO THE GROUND TO A DEPTH OF 1/4 OF THE HEIGHT OF THE POST. FOR EXAMPLE, A 8' POST SHOULD BE SET AT LEAST 2' INTO THE GROUND.

C. SPACE POSTS EVERY 6' (MIN.) TO 8' (MAX.).

D. SECURE FENCING TO POST WITH NYLON CABLE TIES (AVAILABLE FROM CONWED PLASTICS). WOOD STRIPS MAY BE ALSO BE USED TO PROVIDE ADDITIONAL SUPPORT AND PROTECTION BETWEEN TIES AND POSTS.

NOTE: IF WIRE TIES ARE USED, AVOID DIRECT CONTACT WITH FENCE. WIRE MAY DAMAGE FENCE OVER TIME.

A Tree/Shrub Protector
Barrier Detail
NTS

TREE DISPOSITION SUMMARY:

TOTAL TREES PROTECTED	8
TOTAL TREES REMOVED	146
TOTAL PALMS PROTECTED	16
TOTAL PALMS REMOVED	289

PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.52' = (NGVD 1929)

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

Sunshine811.com

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2022 KIMLEY-HORN AND ASSOCIATES, INC.
Song + Associates, Inc.
Architecture • Planning • Interior Design
Kristen E. Alexa, PLA
Kimley-Horn
LA #6667555

KHA PROJECT 145994004
DATE JUNE 2022
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

TREE DISPOSITION PLAN

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
L-106

Plotted By:Moore, Brenton Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:L-106 TREE DISPOSITION PLAN June 14, 2022 06:00:56pm K:\BRO_Civil\145994004 - Safe Harbor Riviera Beach\CADD\PrintSheets\L-100 TREE DISPOSITION PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

CASE: SP-22-0014
Page 213 of 352

Plotted By:Mixon, Brenton Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:L-200 PHASE 1 LANDSCAPE KEY MAP June 14, 2022 05:48:25pm K:\BCD_Civil\145994004 – Safe Harbor Riviera Beach\CADD\PlanSheets\L-200 LANDSCAPE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

US HIGHWAY NO. 1 (STATE ROAD NO. 5)

PROPERTY LINE (TYP.)

20TH STREET

E. 21ST STREET

AVENUE D

E. 22ND COURT

AVENUE C

AVENUE "C"

22ND STREET

AVENUE "B"

NO LANDSCAPE IMPROVEMENTS ON THIS SHEET PER THIS PHASE

NO LANDSCAPE IMPROVEMENTS ON THIS SHEET PER THIS PHASE

LANDSCAPE IN THIS AREA TO BE INSTALLED WITH PHASES 1 AND 2 OF THE PROJECT. IMPLEMENT THE SEE SHEETS C-101 AND C-102.

LIMITS OF WORK (TYP.)

SHEET L-201

SHEET L-202

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

Sunshine811.com

PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.52' = (NGVD 1929)

GRAPHIC SCALE IN FEET
0 30 60 120

NORTH

SHEET NUMBER						
L-200	SAFE HARBOR RIVIERA BEACH PREPARED FOR SAFE HARBOR MARINAS RIVIERA BEACH FL	PHASE 1 LANDSCAPE KEY MAP	KHA PROJECT 145994004 DATE JUNE 2022 SCALE AS SHOWN DESIGNED BY JPL DRAWN BY AMS CHECKED BY MDS	Kristen E. Alexa, PLA Kimley-Horn LA #6667555	Kimley»Horn © 2022 KIMLEY-HORN AND ASSOCIATES, INC. Song + Associates, Inc. Architecture • Planning • Interior Design	No. REVISIONS DATE BY

SAFE HARBOR
RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

PHASE 1 LANDSCAPE PLAN

SHEET NUMBER L-201

KHA PROJECT 145994004
DATE JUNE 2022
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

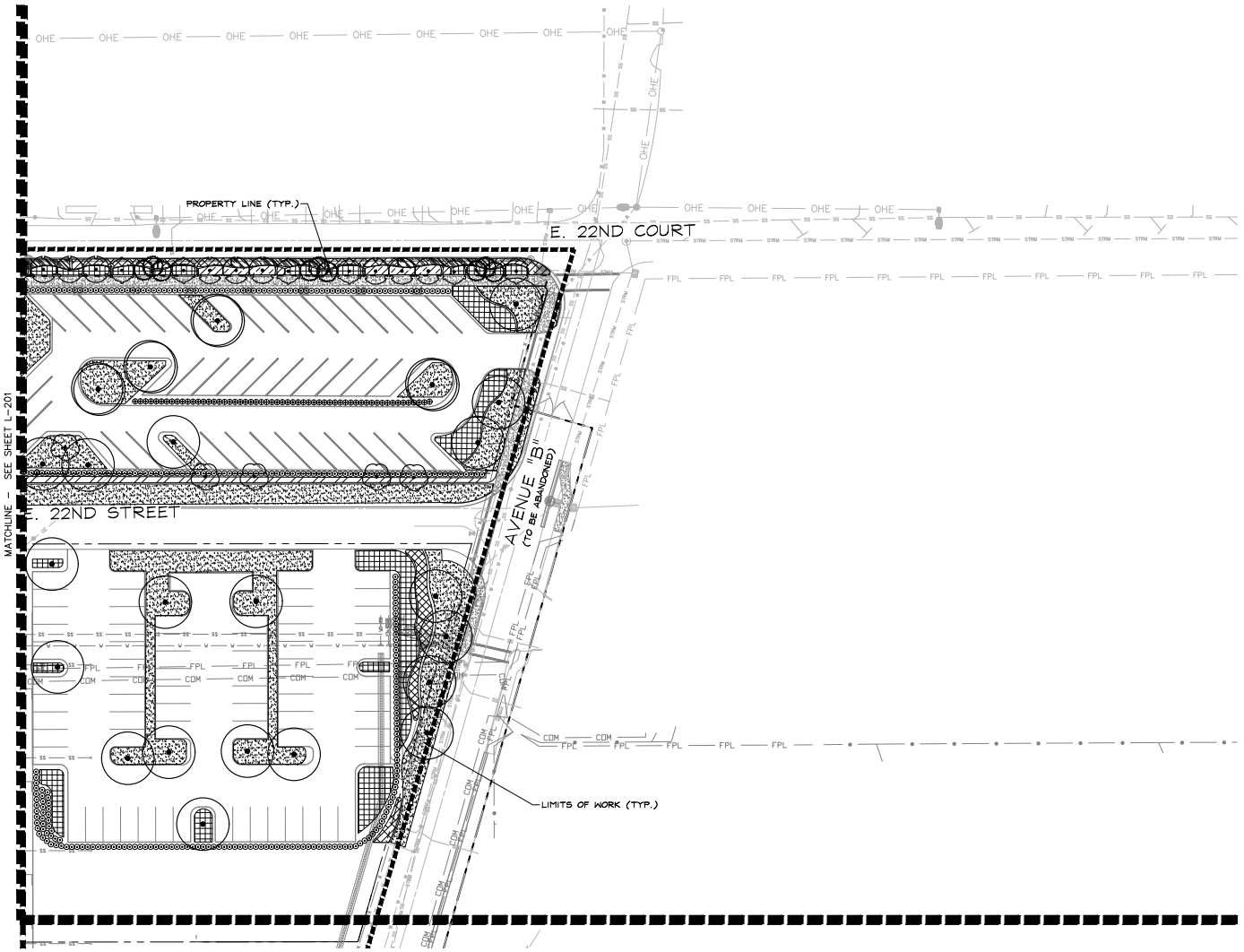
Kristen E. Alexander, FLA
Kimley-Horn
LA #6667555

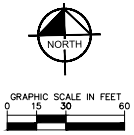
Kimley»Horn
Song + Associates, Inc.
Architecture • Planning • Interior Design
© 2022 KIMLEY-HORN AND ASSOCIATES, INC.

No.	REVISIONS	DATE	BY

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

Plotted By:Kirton, Brenton Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:L-201 PHASE 1 LANDSCAPE PLAN June 14, 2022 05:48:32pm K:\BCP_Civil\145994004 - Safe Harbor Riviera Beach\CADD\Plansheets\L-200 LANDSCAPE PLAN.dwg





PLANT SCHEDULE PHASE 1

TREES	COMMON NAME
	Gumbo Limbo
	Silver Buttonwood
	Dahoon Holly
	Simpson's Stopper
	Southern Live Oak
PALM TREES	**COMMON NAME**
	Cabbage Palmetto
SHRUBS	**COMMON NAME**
	Small Leaf Clusia
	Red Tip Cocoplum
SHRUB AREAS	**COMMON NAME**
	Green Island Ficus
	Dwarf Yaupon Holly
	Wax Jasmine
	Green Schefflera
	Fakahatchee Grass
GROUND COVERS	**COMMON NAME**
	Emerald Goddess Lilyturf
	Floratam St. Augustine Grass

PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.52' = (NGVD 1929)

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

Sunshine811.com

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2022 KIMLEY-HORN AND ASSOCIATES, INC.
Song + Associates, Inc.
Architecture • Planning • Interior Design

Kristen E. Alexa, PLA
Kimley-Horn
LA #6667555

KHA PROJECT 145994004	
DATE	JUNE 2022
SCALE	AS SHOWN
DESIGNED BY	JPL
DRAWN BY	AMS
CHECKED BY	MDS

PHASE 1 LANDSCAPE PLAN

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
L-202

Plotted By:Moon, Brenton Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:L-202 PHASE 1 LANDSCAPE PLAN June 14, 2022 05:48:46pm K:\WBD_Civil\145994004 – Safe Harbor Riviera Beach\CAD\SheetXs\L-200 LANDSCAPE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

SAFE HARBOR
RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL
PHASE 2 LANDSCAPE
KEY MAP
SHEET NUMBER
L-203
KHA PROJECT
145994004
DATE
JUNE 2022
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS
Kristen E. Alexa, P.E.
Kimley-Horn
LA #6667555
Kimley»Horn
© 2022 KIMLEY-HORN AND ASSOCIATES, INC.
Song + Associates, Inc.
Architecture • Planning • Interior Design
NO. REVISIONS DATE BY
GRAPHIC SCALE IN FEET
0 30 60 120
NORTH
PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.52 = (NGVD 1929)
Sunshine811.com
THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.
SHEET L-205
SHEET L-207
SHEET L-204
SHEET L-206
LIMITS OF WORK (TYP.)
LANDSCAPE IN THIS AREA TO BE INSTALLED WITH PHASES 3, 4 AND 5 OF THE SITE CIVIL IMPROVEMENTS. SEE SHEETS C-103, C-104 AND C-105.
E. 22ND STREET
E. 21ST STREET
AVENUE "C"
AVENUE "B"
20TH STREET
PROPERTY LINE (TYP.)
US HIGHWAY NO. 1 (STATE ROAD NO. 5)
BLDG 05 INDUSTRIAL 6 BAYS WITH MEZZANINE 1-STORY FFE = 9.83
BLDG 04 MAINTENANCE & STORAGE 1-STORY FFE = 9.80
BLDG 01 TRADE SHOP AND OFFICES (1 STORIES) FFE = 10.50
BLDG 01 SUBCONTRACTOR (1 STORIES) FFE = 10.60
Plotted By: Brandon Strelau Date/Time: June 14, 2022 08:48:56pm
K:\SBD_Civil\145994004 - Safe Harbor Riviera Beach\Layout\L-203 PHASE 2 LANDSCAPE KEY MAP.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

SAFE HARBOR
RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

PHASE 2 LANDSCAPE PLAN

SHEET NUMBER L-204

KHA PROJECT 145994004
DATE JUNE 2022
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

Kimley»Horn
© 2022 KIMLEY-HORN AND ASSOCIATES, INC.

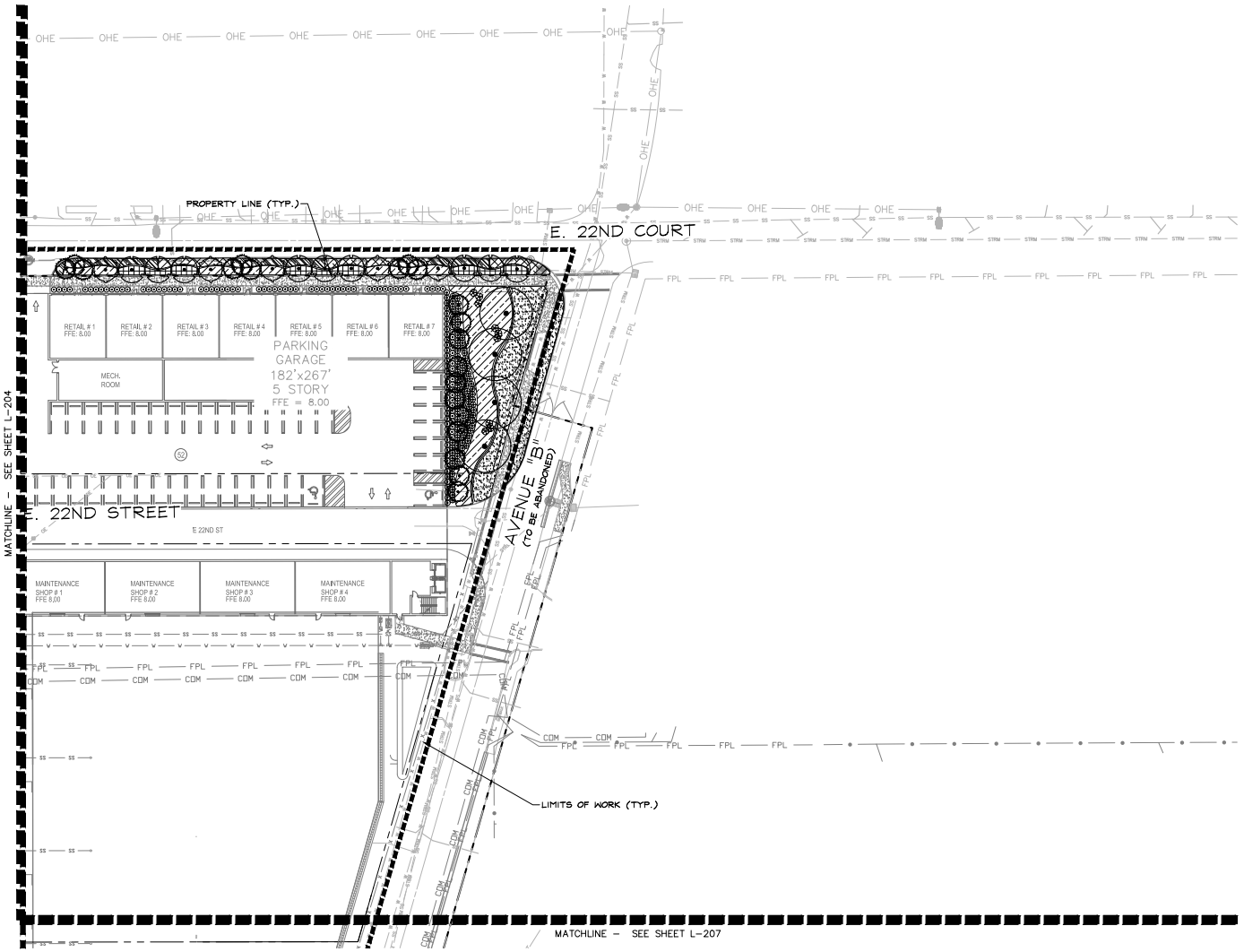
Song + Associates, Inc.
Architecture • Planning • Interior Design

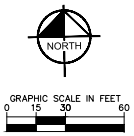
Kristen E. Alexa, PE
Kimley-Horn
FLA #66675555

No.	REVISIONS	DATE	BY

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

Plotted By: Kristen Strelau-Safe Harbor Riviera Beach L-204 PHASE 2 LANDSCAPE PLAN June 14, 2022 - 05:49:02pm K:\BCP_Civil\145994004 - Safe Harbor Riviera Beach\CADD\Plansheets\L-200 LANDSCAPE PLAN.dwg





PLANT SCHEDULE PHASE 2

TREES	COMMON NAME
	Silver Buttonwood
	Dahoon Holly
	Southern Live Oak
	Yellow Elder

PALM TREES	COMMON NAME
	Cabbage Palmetto
	Florida Thatch Palm Double Trunk

SHRUBS	COMMON NAME
	Small Leaf Clusia
	Red Tip Cocoplum

SHRUB AREAS	COMMON NAME
	Green Island Ficus
	Dwarf Yaupon Holly
	Wax Jasmine
	Green Schefflera
	Fakahatchee Grass

GROUND COVERS	COMMON NAME
	Perennial Peanut
	Emerald Goddess Lilyturf
	Floratam St. Augustine Grass

PLANS ARE IN NAVD 1988 DATUM CONVERSION EQUATION IS BELOW: (NAVD 1988) + 1.52' = (NGVD 1929)

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

Sunshine811.com

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2022 KIMLEY-HORN AND ASSOCIATES, INC.
Song + Associates, Inc. Architecture • Planning • Interior Design

Kristen E. Alexa, P.E.
Kimley-Horn
LA #6667555

KHA PROJECT 145994004
DATE JUNE 2022
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

PHASE 2 LANDSCAPE PLAN

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
L-205

Plotted By: Moore, Brenton Sheet Set: SAFE HARBOR RIVIERA BEACH Layout: L-205 PHASE 2 LANDSCAPE PLAN June 14, 2022 05:49:18pm K:\WBD_Civil\145994004 – Safe Harbor Riders Beach\CAD\SheetsXL-200 LANDSCAPE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

SAFE HARBOR
RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

PHASE 2 LANDSCAPE PLAN

KHA PROJECT
145994004
DATE
JUNE 2022
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

Kristen E. Alexa, PLA
Kimley-Horn
FL LA #6667555

Kimley»Horn
© 2022 KIMLEY-HORN AND ASSOCIATES, INC.

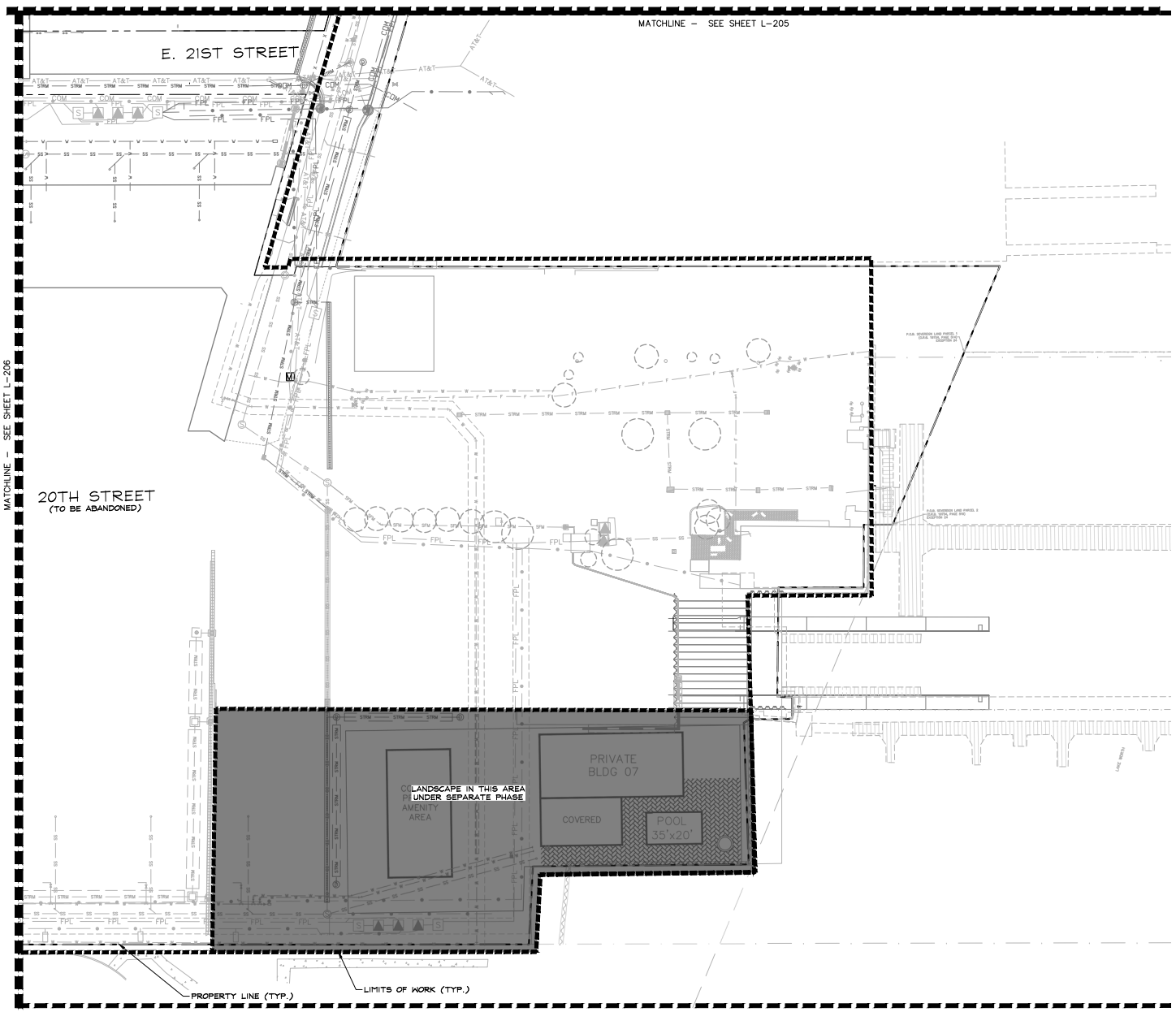
Song + Associates, Inc.
Architecture • Planning • Interior Design

NO.	REVISIONS	DATE	BY

SHEET NUMBER
L-206

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

Plotted By: Brandon Strickland, Date/Time: Jun 14, 2022 - 08:49:31am K:\BCP_Civil\145994004 - Safe Harbor Riviera Beach\CADD\Plansheets\L-200 LANDSCAPE PLAN.dwg



NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

PLANT SCHEDULE PHASE 2

TREES	COMMON NAME
	Silver Buttonwood
	Dahoon Holly
	Southern Live Oak
	Yellow Elder

PALM TREES	COMMON NAME
	Cabbage Palmetto
	Florida Thatch Palm Double Trunk

SHRUBS	COMMON NAME
	Small Leaf Clusia
	Red Tip Cocoplum

SHRUB AREAS	COMMON NAME
	Green Island Ficus
	Dwarf Yaupon Holly
	Wax Jasmine
	Green Schefflera
	Fakahatchee Grass

GROUND COVERS	COMMON NAME
	Perennial Peanut
	Emerald Goddess Lilyturf
	Floratam St. Augustine Grass

PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.52' = (NGVD 1929)

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

Sunshine811.com

No.	REVISIONS	DATE	BY

© 2022 KIMLEY-HORN AND ASSOCIATES, INC.

Kimley»Horn
Song + Associates, Inc.
Architecture • Planning • Interior Design

Kristen E. Alexa, PLA
Kimley-Horn
LA #6667555

KHA PROJECT 145994004
DATE JUNE 2022
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

PHASE 2 LANDSCAPE PLAN

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
L-207

Plotted By:Moon, Brenton Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:L-207 PHASE 2 LANDSCAPE PLAN June 14, 2022 05:49:43pm K:\WPB_Civil\145994004 – Safe Harbor Riviera Beach\CAD\SheetsV\L-200 LANDSCAPE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

PLANT SCHEDULE PHASE 1

TREES	BOTANICAL / COMMON NAME	CONT	CAL	SIZE	NATIVE	QTY
	Bursera simaruba / Gumbo Limbo	B & B	3" Cal.	12' HT x 5' SPR	Yes	4
	Conocarpus erectus sericeus / Silver Buttonwood	B & B	2" Cal.	12' HT x 5' SPR		25
	Ilex cassine / Dahoon Holly	B & B	2" Cal.	12' HT x 5' SPR		17
	Myrcianthes fragrans / Simpson's Stopper	B & B	2" Cal.	12' HT x 5' SPR		7
	Quercus virginiana / Southern Live Oak	B & B	2" Cal.	12' HT x 5' SPR		21

PALM TREES	BOTANICAL / COMMON NAME	CONT	CAL	SIZE	NATIVE	QTY
	Sabal palmetto / Cabbage Palmetto	F.G.		12-18' CT		30

SHRUBS	BOTANICAL / COMMON NAME	CONT	O.C.	SIZE	NATIVE	QTY
	Clusia guttifera / Small Leaf Clusia	Cont.	36" O.C.	24"x24"	No	561
	Chrysobalanus icaco 'Red Tip' / Red Tip Cocoplum	Cont.	36" O.C.	24"x24"	Yes	127

SHRUB AREAS	BOTANICAL / COMMON NAME	CONT	O.C.	SIZE	NATIVE	QTY
	Ficus microcarpa 'Green Island' / Green Island Ficus	Cont.	24" O.C.	24" x 24"		1,403
	Ilex vomitoria 'Nana' / Dwarf Yaupon Holly	Cont.	24" O.C.	18"x18"		1,570
	Jasminum volubile / Wax Jasmine	Cont.	24" O.C.	24" x 24"		9
	Schefflera arboricola / Green Schefflera	Cont.	24" O.C.	18"x18"		472
	Tripsacum dactyloides / Fakahatchee Grass	Cont.	36" O.C.	18"x18"		276

GROUND COVERS	BOTANICAL / COMMON NAME	CONT	O.C.	SIZE	NATIVE	QTY
	Liriope muscari 'Emerald Goddess' / Emerald Goddess Lilyturf	Cont.	18" O.C.	18" HT. X 18" SPR.		273
	Stenotaphrum secundatum 'Floratam' / Floratam St. Augustine Grass	Sod				±16,978 sf

CODE REQUIREMENTS: SAFE HARBOR RIVIERA BEACH

SITE AREA: IMPERVIOUS AREA:
ZONING: DOWNTOWN CORE/DOWNTOWN MARINE PERVIOUS AREA:

	REQUIRED	PROVIDED
SEC.29-65(c.)		
BROADWAY SHADE TREES ARE INSTALLED IN GRATES AND THE ADJACENT BUILDING SETBACKS AUGMENT THE SIDEWALK AREA TO ESTABLISH A SUPER PEDESTRIAN ENVIRONMENT.	YES	✓
DOWNTOWN MIXED USE STREET TREES ARE INSTALLED IN A PLANTING STRIP ADJACENT TO A CONTINUOUS SIDEWALK	YES	✓
DOWNTOWN RESIDENTIAL SHADE TREES ARE REGULARLY SPACED IN PLANTING STRIPS NEXT TO SIDEWALKS.	YES	✓
SEC.31-539(e.)		
1. STREET WALLS BE THREE FEET TO THREE FEET SIX INCHES IN HEIGHT. ONE SHADE TREE PER LINEAR FEET, UNIFORMLY SPACED, SHALL BE INSTALLED ALONG THE STREETWALL WITHIN A PLANTING AREA AT LEAST FIVE FEET WIDE.	YES	✓
2. ALONG SIDE AND REAR LOT LINES, A LANDSCAPE STRIP FIVE FEET IN WIDTH SHALL BE INSTALLED WITH TREES PLANTED AT LEAST 50 FEET ON CENTER. WHEN AN ALLEY IS NOT PRESENT, OPENINGS SHALL BE MADE TO ACCOMMODATE CURRENT OR FUTURE VEHICULAR CONNECTIONS BETWEEN ADJACENT PROPERTIES. LOTS WHICH INTERCONNECT THEIR PARKING TO ADJACENT LOTS MAY BE ADMINISTRATIVELY RELIEVED OF SIDE/REAR LANDSCAPE STRIPS IN ORDER TO MAXIMIZE THE PARKING SUPPLY BETWEEN THE PROPERTIES.	YES	✓
3. PARKING LOTS SHALL PROVIDE EITHER LANDSCAPE ISLANDS OR LANDSCAPE TRIPS AS SET FORTH BELOW: (A) ONE LANDSCAPE ISLAND AT LEAST SIX FEET IN WIDTH, EXTENDING THE ENTIRE DEPTH OF THE PARKING BAY AND CONTAINING AT LEAST ONE SHADE TREE SHALL BE PROVIDED FOR EVERY TEN PARKING STALLS; OR (B) A LANDSCAPE STRIP AT LEAST SIX FEET IN WIDTH CONTAINING AT LEAST ONE SHADE TREE FOR EVERY 50 LINEAR FEET SHALL BE PROVIDED BETWEEN PARKING ROWS.	YES	✓
SEC.31-608(c.)		
BUFFER LANDSCAPING (1)A BUFFER SETBACK WIDTH SHALL CONSIST OF LANDSCAPING TO INCLUDE A BUFFER SCREEN	YES	✓
(2)THE WIDTH OF A BUFFER SCREEN SHALL BE 25 PERCENT OF THE WIDTH OF THE REQUIRED BUFFER SETBACK WIDTH	YES	✓

PLANT SCHEDULE PHASE 2

TREES	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE	NATIVE	QTY
	Conocarpus erectus sericeus	Silver Buttonwood	B & B	2" Cal.	12' HT x 5' SPR		19
	Ilex cassine	Dahoon Holly	B & B	2" Cal.	12' HT x 5' SPR		6
	Quercus virginiana	Southern Live Oak	B & B	2" Cal.	12' HT x 5' SPR		7
	Tecoma stans	Yellow Elder	B & B	2" Cal.	12' HT x 5' SPR		18

PALM TREES	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE	NATIVE	QTY
	Sabal palmetto	Cabbage Palmetto	F.G.		12-18' CT		22
	Thrinax radiata Double Trunk	Florida Thatch Palm	F.G.		10' - 14' CT		17

SHRUBS	BOTANICAL NAME	COMMON NAME	CONT	O.C.	SIZE	NATIVE	QTY
	Accent Shrubs		-				9
	Clusia guttifera	Small Leaf Clusia	Cont.	36" O.C.	24"x24"	No	405
	Chrysobalanus icaco 'Red Tip'	Red Tip Cocoplum	Cont.	36" O.C.	24"x24"	Yes	143

SHRUB AREAS	BOTANICAL NAME	COMMON NAME	CONT	O.C.	SIZE	NATIVE	QTY
	Ficus microcarpa 'Green Island'	Green Island Ficus	Cont.	24" O.C.	24" x 24"		159
	Ilex vomitoria 'Nana'	Dwarf Yaupon Holly	Cont.	18" O.C.	15"x15"		311
	Jasminum volubile	Wax Jasmine	Cont.	24" O.C.	24" x 24"		545
	Schefflera arboricola	Green Schefflera	Cont.	24" O.C.	18"x18"		808
	Tripsacum dactyloides	Fakahatchee Grass	Cont.	36" O.C.	18"x18"		312

GROUND COVERS	BOTANICAL NAME	COMMON NAME	CONT	O.C.	SIZE	NATIVE	QTY
	Arachis glabrata	Perennial Peanut	Cont.	18"O.C.	12"x12"		481
	Liriope muscari 'Emerald Goddess'	Emerald Goddess Lilyturf	Cont.	18" O.C.	18" HT. X 18" SPR.		994
	Stenotaphrum secundatum 'Floratam'	Floratam St. Augustine Grass	Sod				±4,876 sf

PLANTING NOTES:

1. CONTRACTOR SHALL REFER TO THE LANDSCAPE PLANTING DETAILS, PLANT LIST, GENERAL NOTES AND ALL CONTRACT DOCUMENTS FOR FURTHER AND COMPLETE INSTRUCTIONS.
2. PLANT LIST QUANTITIES ARE PROVIDED FOR CONVENIENCE. IN THE EVENT OF QUANTITY DISCREPANCIES THE DRAWING SHALL TAKE PRECEDENCE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO BIDDING.
3. PLANT SIZES LISTED ARE THE MINIMUM SIZE THAT WILL BE ACCEPTED FOR THAT PLANT.
4. ANY SUBSTITUTION IN SIZE AND/OR PLANT MATERIAL MUST BE APPROVED BY THE LANDSCAPE ARCHITECT IN WRITING. ALL PLANTS WILL BE SUBJECT TO APPROVAL BY LANDSCAPE ARCHITECT AND/OR OWNERS REPRESENTATIVE BEFORE PLANTING CAN BEGIN.
5. CONTRACTOR SHALL FIELD ADJUST LOCATION OF PLANT MATERIAL AS NECESSARY TO AVOID DAMAGE TO EXISTING UNDERGROUND UTILITIES AND/OR INTERFERE WITH EXISTING ABOVE GROUND ELEMENTS. ALL CHANGES REQUIRED SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE AND SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE AND THE LANDSCAPE ARCHITECT.
6. THE CONTRACTOR SHALL BEAR ALL COSTS OF TESTING OF SOILS, AMENDMENTS, ETC. ASSOCIATED WITH THE WORK AND INCLUDED IN THE SPECIFICATIONS.
7. CONTRACTOR SHALL FAMILIARIZE HIM/HERSELF WITH THE LIMITS OF WORK AND EXISTING CONDITIONS AND VERIFY ALL INFORMATION. IF DISCREPANCIES EXIST, CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE IN WRITING WITHIN SEVEN CALENDAR DAYS OF NOTICE TO PROCEED.
8. ALL NEW AND TRANSPLANTED PLANT MATERIAL SHALL BE IRRIGATED BY AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM.

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.52' = (NGVD 1929)

Sunshine811.com

No.	REVISIONS	DATE	BY

© 2022 KIMLEY-HORN AND ASSOCIATES, INC.

Kimley»Horn
Song + Associates, Inc.
Architecture • Planning • Interior Design

Kristen E. Alexa, P.E.
Kimley-Horn
FL LIC. #66755
LA #6667555

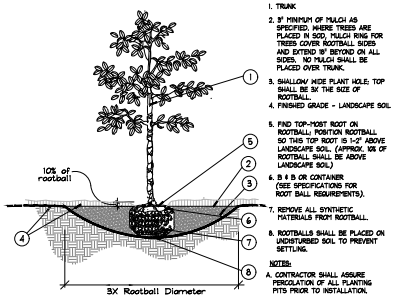
KHA PROJECT 145994004
DATE JUNE 2022
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

LANDSCAPE PLAN

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

SHEET NUMBER
L-208

Plotted By:Moore, Brenton Sheet Set:SAFE HARBOR RIVIERA BEACH Layout:L-208 LANDSCAPE PLAN June 14, 2022 05:48:51pm K:\WPB_Civil\145994004 - Safe Harbor Riviera Beach\CAD\PlotSheets\L-200 LANDSCAPE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

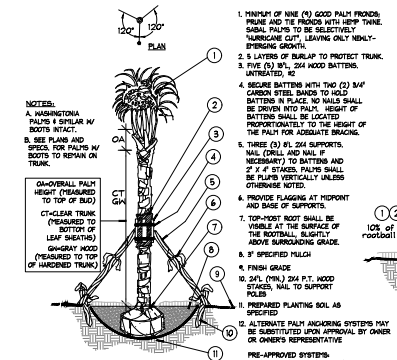


1. TRUNK
2. 3" MINIMUM OF MULCH AS SPECIFIED, WHERE TREES ARE PLACED IN SOD, MULCH RING FOR TREES COVER ROOTBALL SIDES AND EXTEND 18" BEYOND ON ALL SIDES. NO MULCH SHALL BE PLACED OVER TRUNK.
3. SHALLOW, WIDE PLANT HOLE: TOP SHALL BE 3X THE SIZE OF ROOTBALL.
4. FINISHED GRADE - LANDSCAPE SOIL
5. FIND TOP-MOST ROOT ON ROOTBALL. POSITION ROOTBALL SO THIS TOP ROOT IS 1-2" ABOVE LANDSCAPE SOIL. (APPROX. 10% OF ROOTBALL SHALL BE ABOVE LANDSCAPE SOIL)
6. B & B OR CONTAINER (SEE SPECIFICATIONS FOR ROOT BALL REQUIREMENTS).
7. REMOVE ALL SYNTHETIC MATERIALS FROM ROOTBALL.
8. ROOTBALLS SHALL BE PLACED ON UNDISTURBED SOIL TO PREVENT SETTLING.

NOTES:
A. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.
B. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.
C. SEE PRE-APPROVED STAKING METHODS, THIS SHEET

* ALL TREES SHALL BE PLUMB VERTICALLY WITHIN A TOLERANCE OF THREE DEGREES, UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE.

A SECTION — Tree Planting — NTS



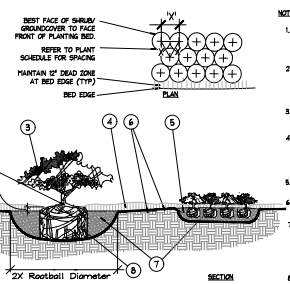
NOTES:
A. WASHINGTONIA PALMS & SIMILAR W/ BOOTS INTACT.
B. SEE PLANS AND SPECS. FOR PALMS W/ BOOTS TO REMAIN ON TRUNK.

OA=OVERALL PALM HEIGHT (MEASURED TO TOP OF BUD)
CT=CLEAR TRUNK (MEASURED TO BOTTOM OF LEAF SHEATHS)
GM=GRAY WOOD (MEASURED TO TOP OF HARDENED TRUNK)

1. MINIMUM OF NINE (9) GOOD PALM FRONDS. PRUNE AND TIE FRONDS WITH HEMP TWINE. SABAL PALMS TO BE SELECTIVELY "HURRICANE CUT", LEAVING ONLY NEWLY-EMERGING GROWTH.
2. 5 LAYERS OF BURLAP TO PROTECT TRUNK.
3. FIVE (5) 8'L, 2X4 WOOD BATTENS. UNTREATED, #2
4. SECURE BATTENS WITH TWO (2) 3/4" CARBON STEEL BANDS TO HOLD BATTENS IN PLACE. NO NAILS SHALL BE DRIVEN INTO PALM. HEIGHT OF BATTENS SHALL BE LOCATED PROPORTIONATELY TO THE HEIGHT OF THE PALM FOR ADEQUATE BRACING.
5. THREE (3) 8'L 2X4 SUPPORTS. NAIL (DRILL AND NAIL IF NECESSARY) TO BATTENS AND 2" X 4" STAKES. PALMS SHALL BE PLUMB VERTICALLY UNLESS OTHERWISE NOTED.
6. PROVIDE FLAGGING AT MIDPOINT AND BASE OF SUPPORTS.
7. TOP-MOST ROOT SHALL BE VISIBLE AT THE SURFACE OF THE ROOTBALL, SLIGHTLY ABOVE SURROUNDING GRADE.
8. 3" SPECIFIED MULCH
9. FINISH GRADE
10. 24"L (MIN.) 2X4 P.T. WOOD STAKES, NAIL TO SUPPORT POLES
11. PREPARED PLANTING SOIL AS SPECIFIED
12. ALTERNATE PALM ANCHORING SYSTEMS MAY BE SUBSTITUTED UPON APPROVAL BY OWNER OR OWNER'S REPRESENTATIVE

PRE-APPROVED SYSTEMS:
•BROOKS TREE BRACE SYSTEM
HARBOR TIE TREE BRACING

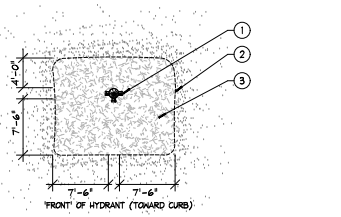
B SECTION — Palm Planting and Staking — NTS



NOTES:
1. FIND POINT WHERE TOPMOST ROOT EMERGES FROM TRUNK WITHIN 2" OF SURFACE. CLEAR EXCESS SOIL IF NECESSARY.
2. TOP 10% OF SHRUB AND GROUNDCOVER ROOTBALLS TO BE PLANTED ABOVE THE LANDSCAPE GRADE. DO NOT COVER EXPOSED 10% ON SIDES WITH SOIL.
3. PRUNE ALL LIKE SHRUBS WITHIN A PLANTED MASS TO ACHIEVE A UNIFORM MASS/HEIGHT.
4. 3" MINIMUM MULCH AS SPECIFIED - DO NOT COVER ENTIRE SHRUB ROOTBALL OR CREATE WATER RINGS! ONLY COVER SIDES OF ROOTBALL WITH MULCH
5. EXCAVATE ENTIRE BED SPECIFIED FOR GROUNDCOVER BED.
6. FINISHED GRADE (SEE GRADING PLAN).
7. PREPARED PLANTING SOIL AS SPECIFIED. NOTE: WHEN GROUNDCOVERS AND SHRUBS USED IN MASSES, ENTIRE BED TO BE AMENDED WITH PLANTING SOIL MIX AS SPECIFIED.
8. SCARIFY ROOTBALL SIDES AND BOTTOM.

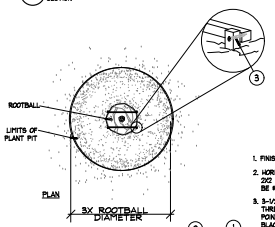
* ALL SHRUBS AND GROUNDCOVERS SHALL BE PLUMB VERTICALLY, UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE.

C PLAN/SECTION — Shrub / Groundcover Planting — NTS



1. FIRE HYDRANT
2. NO PLANT MATERIAL SHALL BE PLACED WITHIN SHOWN RADIUS OF ALL PROPOSED OR EXISTING FIRE HYDRANTS. CONTRACTOR SHALL ADJUST PLANT MATERIAL SO THAT NO CONFLICTS WITH FIRE HYDRANTS OCCUR ON SITE.
3. PROVIDE A MULCH, 3' DEPTH MIN., SURROUNDING AREA INDICATED.

D PLAN — Fire Hydrant Clear Zone — NTS

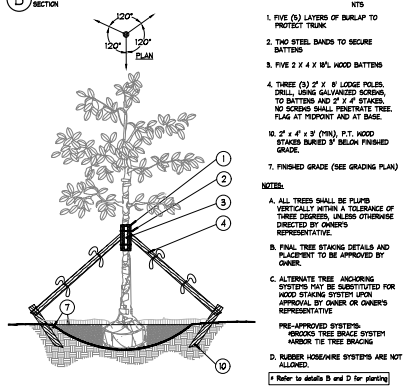


1. FINISH GRADE
2. HORIZONTAL 2X2 SCREWED TO 2X2 STAKE. ALL WOOD SHALL BE #2 UNTREATED.
3. 3-1/2" DRYWALL SCREW, THREAD SIZE 12, SHARP POINT, FULL THREAD, BLACK PHOSPHATE FINISH
4. VERTICAL STAKES SHALL ABUT SIDE OF ROOTBALL
5. STAKES TO EXTEND INTO NATIVE SOIL BY 1-1/2 X THE ROOTBALL DEPTH MIN.

NOTE:
IF SPATIAL REQUIREMENTS PRECLUDE STAKING WITH THIS METHOD, SUBMIT ALTERNATE FOR LANDSCAPE ARCHITECT'S APPROVAL PRIOR TO INSTALLING PLANT.

* Refer to details B and D for planting

E PLAN/SECTION — Staking - up to 65 gal. or B&B to 3-1/2" Cal. — NTS



1. FIVE (5) LAYERS OF BURLAP TO PROTECT TRUNK
2. TWO STEEL BANDS TO SECURE BATTENS
3. FIVE 2 X 4 X W'L WOOD BATTENS
4. THREE (3) 2" X 8" LODGE POLES. DRILL, USING GALVANIZED SCREWS, TO BATTENS AND 2" X 4" STAKES. NO SCREWS SHALL PENETRATE TREE. FLAG AT MIDPOINT AND AT BASE.
10. 2" x 4" x 3' (MIN), P.T. WOOD STAKES BURIED 3' BELOW FINISHED GRADE.
7. FINISHED GRADE (SEE GRADING PLAN)

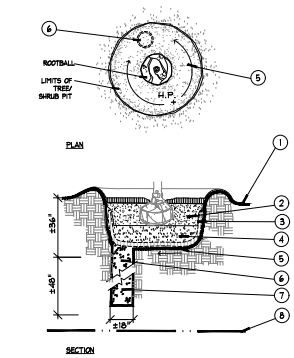
NOTES:
A. ALL TREES SHALL BE PLUMB VERTICALLY WITHIN A TOLERANCE OF THREE DEGREES, UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE.
B. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.
C. ALTERNATE TREE ANCHORING SYSTEMS MAY BE SUBSTITUTED FOR WOOD STAKING SYSTEM UPON APPROVAL BY OWNER OR OWNER'S REPRESENTATIVE

PRE-APPROVED SYSTEMS:
•BROOKS TREE BRACE SYSTEM
HARBOR TIE TREE BRACING

D. RUBBER HOSE/WIRE SYSTEMS ARE NOT ALLOWED.

* Refer to details B and D for planting

F SECTION — Large Tree Staking - 100 Gal + or B&B 4" + — NTS

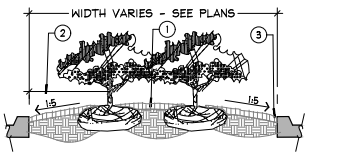


1. FINISH GRADE
2. BACKFILL WITH PREPARED PLANTING SOIL MIX AS SPECIFIED.
3. FILTER CLOTH, MIRAFI 500X OR BETTER
4. 12" CLEAN SAND, COMPACTED. ADJUST LAYER THICKNESS SO TOP OF ROOTBALL IS AT LEAST 1" ABOVE FINISHED GRADE.
5. SLOPE BOTTOM TO DRAIN
6. 18"- AUGURED HOLE PENETRATE THROUGH OCCLUDING LAYER TO WATER TABLE OR TO A DEPTH OF 7' TO ASSURE PROPER PERCOLATION.
7. BACKFILL WITH 1/2" - 3/4" GRAVEL.
8. WATER TABLE. (DEPTH VARIES)

NOTE:
FOR A PARKING ISLAND PLANTING SITUATION, CONTRACTOR TO BACKFILL ENTIRE LENGTH OF PLANTING AREA TO WITHIN 6" OF BACK OF CURB OR EDGE OF PAVEMENT.

REFER TO NOTE 6.3 OF WRITTEN SPECIFICATIONS FOR ADDITIONAL INFORMATION.

G PLAN/SECTION — Poor Drainage Condition — NTS

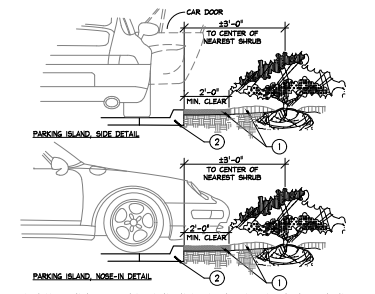


PLANTER ISLAND NOTES

1. CROWN ISLANDS @ 5:1 SLOPES (OR AS SPECIFIED ON THE LANDSCAPE PLANS).
2. CLEAR ZONE: 36" MIN. FROM BACK OF CURB TO CENTER OF NEAREST SHRUB. CLEAR ZONE SHALL CONTAIN 3" CONTINUOUS MULCH OR TURF, SEE PLANS. SEE DETAIL 'I' FOR PLANTER MEDIANS ADJACENT TO PARKING SPACES.
3. 1' MIN VERTICAL CLEARANCE, TOP OF CURB TO TOP OF MULCH.

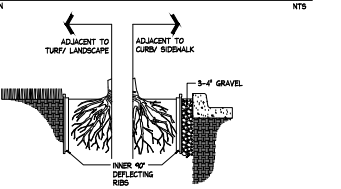
- EXCAVATE CONTINUOUS 36" DEEP (FROM TOP OF CURB) FOR ENTIRE LENGTH AND WIDTH OF ISLAND & BACKFILL WITH APPROVED PLANTING MIX.
- PROTECT AND RETAIN ALL CURBS AND BASE. COMPACTED SUBGRADE TO REMAIN FOR STRUCTURAL SUPPORT OF CURB SYSTEM (TYP.).
- ALL ISLANDS SHALL UTILIZE POOR DRAINAGE DETAIL WHEN PERCOLATION RATES ARE 2" PER HOUR OR LESS.

H SECTION — Planted Parking Lot Islands / Medians — NTS



1. INSTALL CONTINUOUS MULCH BED ADJACENT TO PARKING SPACES AS SHOWN. MULCH SHALL BE MIN. 3" DEEP.
   NO POP-UP IRRIGATION HEADS SHALL BE LOCATED WITHIN 24" OF A PARKING SPACE ON ANY SIDE
2. CURB OR PARKING LOT EDGE, BY OTHERS

I SECTION — Parking Space/Curb Planting — NTS



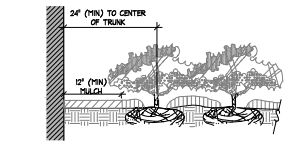
LINEAR APPLICATION

ROOT BARRIER BY: Century Root Barrier (714)632-7083
(or) DeepRoot (800)458-7668
(or approved equal)

SIZE: 36" D
MATERIAL: POLYETHYLENE WITH ULTRAVIOLET INHIBITORS
THICKNESS: .085 IN. (min.)

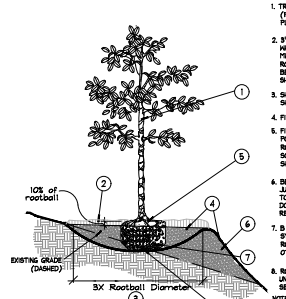
NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. INSTALL AS REQUIRED, PER PLAN NOTES.
3. SUBMIT PRODUCT DATA FOR APPROVAL.

L Barrier Detail — Root Barrier — NTS



NOTES
* CLEAR ZONE: 24" MIN. FROM BUILDING TO CENTER OF NEAREST SHRUB.

J SECTION — Plantings Adjacent to Buildings — NTS



1. TREES, PALMS, AND LARGE SHRUBS (15 GAL OR GREATER) SHALL BE PLANTED IN SIMILAR MANNER
2. 3" MINIMUM OF MULCH AS SPECIFIED. WHERE TREES ARE PLACED IN SOD, MULCH RING FOR TREES COVER ROOTBALL SIDES AND EXTEND 18" BEYOND ON ALL SIDES. NO MULCH SHALL BE PLACED OVER TRUNK.
3. SHALLOW, WIDE PLANT HOLE: TOP SHALL BE 3X THE SIZE OF ROOTBALL.
4. FINISHED GRADE - LANDSCAPE SOIL
5. FIND TOP-MOST ROOT ON ROOTBALL. POSITION ROOTBALL SO THIS TOP ROOT IS 1-2" ABOVE LANDSCAPE SOIL. (APPROX. 10% OF ROOTBALL SHALL BE ABOVE LANDSCAPE SOIL)
6. BERM SOIL SO THAT TOP OF BERM IS JUST BELOW THE TOP 10% OF THE TOP OF THE ROOTBALL. SLOPE DOWNHILL PORTION OF BERM AS REQUIRED TO MEET EXISTING GRADE.
7. B & B OR CONTAINER REMOVE ALL SYNTHETIC MATERIALS FROM ROOTBALL. (SEE SPECIFICATIONS FOR OTHER ROOT BALL REQUIREMENTS)
8. ROOTBALLS SHALL BE PLACED ON UNDISTURBED SOIL TO PREVENT SETTLING.

NOTES:
A. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.
B. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.
C. SEE PRE-APPROVED STAKING METHODS, THIS SHEET

* ALL TREES SHALL BE PLUMB VERTICALLY WITHIN A TOLERANCE OF THREE DEGREES, UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE.

K SECTION — Planting on a Slope — NTS

PLANS ARE IN NAVD 1988 DATUM CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.52' = (NGVD 1929)

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

Sunshine811.com

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2022 KIMLEY-HORN AND ASSOCIATES, INC.
Song + Associates, Inc.
Architecture • Planning • Interior Design

Kristen L. Alexa, PLA
Kimley-Horn
LA #6667555

KHA PROJECT 145994004
DATE JUNE 2022
SCALE AS SHOWN
DESIGNED BY JPL
DRAWN BY AMS
CHECKED BY MDS

SAFE HARBOR RIVIERA BEACH
PREPARED FOR
SAFE HARBOR MARINAS
RIVIERA BEACH FL

LANDSCAPE DETAILS

SHEET NUMBER
L-210

Plotted By: Alexa, Brenton Sheet Set: SAFE HARBOR RIVIERA BEACH Layout: L-210 LANDSCAPE DETAILS June 14, 2022 05:49:59pm K:\BRO_Civil\145994004 - Safe Harbor Riviera Beach\CAD\PlanSheets\L-210 LANDSCAPE DETAILS.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

CASE: SP-22-0014

Page 224 of 352

GENERAL LANDSCAPE SPECIFICATIONS AND NOTES

A. SCOPE OF WORK

1. THE WORK CONSISTS OF: FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT AS SHOWN ON THE DRAWINGS, AS INCLUDED IN THE PLANT LIST, AND AS HEREIN SPECIFIED.
2. WORK SHALL INCLUDE MAINTENANCE AND WATERING OF ALL CONTRACT PLANTING AREAS UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER.

B. PROTECTION OF EXISTING STRUCTURES

ALL EXISTING BUILDINGS, WALKS, WALLS, PAVING, PIPING, OTHER SITE CONSTRUCTION ITEMS, AND PLANTING ALREADY COMPLETED OR ESTABLISHED SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. ALL DAMAGE RESULTING FROM NEGLIGENCE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER, AT NO COST TO THE OWNER.

C. PROTECTION OF EXISTING PLANT MATERIALS OUTSIDE LIMIT OF WORK

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNAUTHORIZED CUTTING OR DAMAGE TO TREES AND SHRUBS EXISTING OR OTHERWISE, CAUSED BY CARELESS EQUIPMENT OPERATION, MATERIAL STOCKPILING, ETC. THIS SHALL INCLUDE COMPACTION BY DRIVING OR PARKING INSIDE THE DRIP-LINE AND SPILLING OIL, GASOLINE, OR OTHER DELETERIOUS MATERIALS WITHIN THE DRIP-LINE. NO MATERIALS SHALL BE BURNED WHERE HEAT WILL DAMAGE ANY PLANT. EXISTING TREES KILLED OR DAMAGED SO THAT THEY ARE MISSHAPEN AND/ OR UNSIGHTLY SHALL BE REPLACED AT THE COST TO THE CONTRACTOR OF ONE HUNDRED DOLLARS ($100) PER CALIPER INCH ON AN ESCALATING SCALE WHICH ADDS AN ADDITIONAL TWENTY (20) PERCENT PER INCH OVER FOUR (4) INCHES CALIPER AS FIXED AND AGREED LIQUIDATED DAMAGES. CALIPER SHALL BE MEASURED SIX (6) INCHES ABOVE GROUND LEVEL FOR TREES UP TO AND INCLUDING FOUR (4) INCHES IN CALIPER AND TWELVE (12) INCHES ABOVE GROUND LEVEL FOR TREES OVER FOUR (4) INCHES IN CALIPER.

D. MATERIALS

1. GENERAL

MATERIALS LISTED BELOW SHALL BE SUBMITTED FOR APPROVAL. UPON SUBMITTALS' APPROVAL, DELIVERY OF MATERIALS MAY COMMENCE.

MATERIAL	SUBMITTAL
MULCH	PRODUCT DATA
TOPSOIL MIX	AMENDMENT MIX/ PRODUCT DATA/ TEST RESULTS
PLANTS	PHOTOGRAPHS OF ONE (1) OF EACH SPECIES (OR TAGGED IN NURSERY)
	CLIENT-REQUESTED TAGGING MAY SUBSTITUTE PHOTOS.
	INDICATE SIZES (HEIGHT/WIDTH) AND QUALITY PER SPEC.
FERTILIZER	PRODUCT DATA
INNOCULANT	PRODUCT DATA
HERBICIDE	PRODUCT DATA
STAKING/GUYING	FOR ALTERNATE TO DETAILS: SEND PRODUCT DATA, DETAIL

2. PLANT MATERIALS

A. PLANT SPECIES AND SIZE SHALL CONFORM TO THOSE INDICATED ON THE DRAWINGS. NOMENCLATURE SHALL CONFORM TO STANDARDIZED PLANT NAMES, 1942 EDITION. ALL NURSERY STOCK SHALL BE IN ACCORDANCE WITH GRADES AND STANDARDS FOR NURSERY PLANTS, LATEST EDITION, PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. ALL PLANTS SHALL BE FLORIDA GRADE NO. 1 OR BETTER AS DETERMINED BY THE FLORIDA DIVISION OF PLANT INDUSTRY. ALL PLANTS SHALL BE HEALTHY, VIGOROUS, SOUND, WELL-BRANCHED, AND FREE OF DISEASE AND INSECTS, INSECT EGGS AND LARVAE AND SHALL HAVE ADEQUATE ROOT SYSTEMS. TREES FOR PLANTING IN ROWS SHALL BE UNIFORM IN SIZE AND SHAPE. ALL MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE OWNER. WHERE ANY REQUIREMENTS ARE OMITTED FROM THE PLANT LIST, THE PLANTS FURNISHED SHALL BE NORMAL FOR THE VARIETY. PLANTS SHALL BE PRUNED PRIOR TO DELIVERY ONLY WITH APPROVAL FROM OWNER OR OWNER'S REPRESENTATIVE. NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN PERMISSION FROM THE OWNER'S REPRESENTATIVE

B. MEASUREMENTS: THE HEIGHT AND/OR WIDTH OF TREES SHALL BE MEASURED FROM THE GROUND OR ACROSS THE NORMAL SPREAD OF BRANCHES WITH THE PLANTS IN THEIR NORMAL POSITION. THIS MEASUREMENT SHALL NOT INCLUDE TERMINAL GROWTH. PLANTS LARGER IN SIZE THAN THOSE SPECIFIED IN THE PLANT LIST MAY BE USED IF APPROVED BY THE OWNER. IF THE USE OF LARGER PLANTS IS APPROVED, THE BALL OF EARTH OR SPREAD OF ROOTS SHALL BE INCREASED IN PROPORTION TO THE SIZE OF THE PLANT.

C. INSPECTION: PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH, OR UPON DELIVERY TO THE SITE, AS DETERMINED BY THE OWNER, FOR QUALITY, SIZE, AND VARIETY; SUCH APPROVAL SHALL NOT IMPAIR THE RIGHT OF INSPECTION AND REJECTION AT THE SITE DURING PROGRESS OF THE WORK OR AFTER COMPLETION FOR SIZE AND CONDITION OF ROOT BALLS OR ROOTS, LATENT DEFECTS OR INJURIES. REJECTED PLANTS SHALL BE REMOVED IMMEDIATELY FROM THE SITE. NOTICE REQUESTING INSPECTION SHALL BE SUBMITTED IN WRITING BY THE CONTRACTOR AT LEAST ONE (1) WEEK PRIOR TO ANTICIPATED DATE.

E. SOIL MIXTURE (PLANTING MEDIUM, PLANTING MIX, TOPSOIL MIX)

1. SOIL MIXTURE (PLANTING MEDIUM FOR PLANT PITS) SHALL CONSIST OF 20% CLEAN FLORIDA MUCK AND 80% PARTS CLEAN SAND. IT SHALL CONTAIN THREE (3) TO FIVE (5) PERCENT DECOMPOSED ORGANIC MATTER AND A PH BETWEEN 5.5 AND 7.0 - SUBMIT SAMPLE AND PH TESTING RESULTS FOR APPROVAL.
2. MUCK (OR MUCKY PEAT) FOR USE IN PREPARING SOIL MIXTURE FOR BACKFILLING PLANT PITS SHALL BE FERTILE, AND OF A VERY HIGH ORGANIC CONTENT DERIVED FROM FLORIDA SOURCES; REASONABLY FREE OF SUBSOIL, CLAY LUMPS, BRUSH WEEDS AND OTHER LITTER; FREE OF ROOTS, STUMPS, STONES LARGER THAN 2" IN ANY DIRECTION, AND OTHER EXTRANEOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH.
3. SAND FOR USE IN PREPARING SOIL MIXTURE SHALL BE COARSE, CLEAN, WELL-DRAINING, NATIVE SAND. CONTRACTOR SHALL SUBMIT RESULTS OF SOIL TESTS FOR TOPSOIL AND SAND PROPOSED FOR USE UNDER THIS CONTRACT FOR APPROVAL BY THE OWNER.
4. TREES SHALL BE PLANTED IN THE EXISTING NATIVE SOIL ON SITE, UNLESS DETERMINED TO BE UNSUITABLE - AT WHICH POINT THE CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT TO DISCUSS ALTERNATE RECOMMENDATION PRIOR TO PLANTING.
5. CONTRACTOR TO SUBMIT SAMPLES OF SOIL MIXTURE FOR OWNER'S REPRESENTATIVE APPROVAL PRIOR TO PLANT INSTALLATION OPERATIONS COMMENCE.

F. WATER

WATER NECESSARY FOR PLANTING AND MAINTENANCE SHALL BE OF SATISFACTORY QUALITY TO SUSTAIN AN ADEQUATE PLANT GROWTH AND SHALL NOT CONTAIN HARMFUL, NATURAL OR MAN-MADE ELEMENTS DETRIMENTAL TO PLANTS. WATER MEETING THE ABOVE STANDARD SHALL BE OBTAINED ON THE SITE FROM THE OWNER, IF AVAILABLE, AND THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ARRANGEMENTS FOR ITS USE BY HIS TANKS, HOSES, SPRINKLERS, ETC.. IF SUCH WATER IS NOT AVAILABLE AT THE SITE, THE CONTRACTOR SHALL PROVIDE SATISFACTORY WATER FROM SOURCES OFF THE SITE AT NO ADDITIONAL COST TO THE OWNER.

#WATERING/IRRIGATION RESTRICTIONS MAY APPLY - REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.

G. FERTILIZER

CONTRACTOR SHALL PROVIDE FERTILIZER APPLICATION SCHEDULE TO OWNER, AS APPLICABLE TO SOIL TYPE, PLANT INSTALLATION TYPE, AND SITE'S PROPOSED USE. SUGGESTED FERTILIZER TYPES SHALL BE ORGANIC OR OTHERWISE NATURALLY-DERIVED.

#FERTILIZER RESTRICTIONS MAY APPLY - REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.

H. MULCH

MULCH MATERIAL SHALL BE MOISTENED AT THE TIME OF APPLICATION TO PREVENT WIND DISPLACEMENT, AND APPLIED AT A MINIMUM DEPTH OF 3 INCHES. CLEAR MULCH FROM EACH PLANT'S CROWN (BASE). TYPE OF MATERIAL: "FLORIMULCH" OR SHREDDED, STERILE EUCALYPTUS MULCH

I. DIGGING AND HANDLING

1. PROTECT ROOTS OR ROOT BALLS OF PLANTS AT ALL TIMES FROM SUN, DRYING WINDS, WATER AND FREEZING, AS NECESSARY UNTIL PLANTING. PLANT MATERIALS SHALL BE ADEQUATELY PACKED TO PREVENT DAMAGE DURING TRANSIT. TREES TRANSPORTED MORE THAN TEN (10) MILES OR WHICH ARE NOT PLANTED WITHIN THREE (3) DAYS OF DELIVERY TO SITE SHALL BE SPRAYED WITH AN ANTITRANSPIRANT PRODUCT ("WILTPRUF" OR EQUAL) TO MINIMIZE TRANSPIRATIONAL WATER LOSS.
2. BALLED AND BURLAPPED PLANTS (B&B) SHALL BE DUG WITH FIRM, NATURAL BALLS OF SOIL OF SUFFICIENT SIZE TO ENCOMPASS THE FIBROUS AND FEEDING ROOTS OF THE PLANTS. NO PLANTS MOVED WITH A ROOT BALL SHALL BE PLANTED IF THE BALL IS CRACKED OR BROKEN. PLANTS BALLED AND BURLAPPED OR CONTAINER GROWN SHALL NOT BE HANDLED BY STEMS.
3. PLANTS MARKED "BR" IN THE PLANT LIST SHALL BE DUG WITH BARE ROOTS, COMPLYING WITH FLORIDA GRADES AND STANDARDS FOR NURSERY PLANTS, CURRENT EDITION. CARE SHALL BE EXERCISED THAT THE ROOTS DO NOT DRY OUT DURING TRANSPORTATION AND PRIOR TO PLANTING.
4. PROTECTION OF PALMS (IF APPLICABLE): ONLY A MINIMUM OF FRONDS SHALL BE REMOVED FROM THE CROWN OF THE PALM TREES TO FACILITATE MOVING AND HANDLING. CLEAR TRUNK (CT) SHALL BE AS SPECIFIED AFTER THE MINIMUM OF FRONDS HAVE BEEN REMOVED. ALL PALMS SHALL BE BRACED PER PALM PLANTING DETAIL.
5. EXCAVATION OF TREE PITS SHALL BE PERFORMED USING EXTREME CARE TO AVOID DAMAGE TO SURFACE AND SUBSURFACE ELEMENTS SUCH AS UTILITIES OR HARDSCAPE ELEMENTS, FOOTERS AND PREPARED SUB- BASES.

J. CONTAINER GROWN STOCK

1. ALL CONTAINER GROWN MATERIAL SHALL BE HEALTHY, VIGOROUS, WELL-ROOTED PLANTS ESTABLISHED IN THE CONTAINER IN WHICH THEY ARE SOLD. THE PLANTS SHALL HAVE TOPS WHICH ARE OF GOOD QUALITY AND ARE IN A HEALTHY GROWING CONDITION, FLORIDA #1 OR BETTER.
2. AN ESTABLISHED CONTAINER GROWN PLANT SHALL BE TRANSPLANTED INTO A CONTAINER AND GROWN IN THAT CONTAINER SUFFICIENTLY LONG FOR THE NEW FIBROUS ROOTS TO HAVE DEVELOPED SO THAT THE ROOT MASS WILL RETAIN ITS SHAPE AND HOLD TOGETHER WHEN REMOVED FROM THE CONTAINER. CONTAINER GROWN STOCK SHALL NOT BE HANDLED BY THEIR STEMS.
3. PLANT ROOTS BOUND IN CONTAINERS ARE NOT ACCEPTABLE.
4. SUBSTITUTION OF NON-CONTAINER GROWN MATERIAL FOR MATERIAL EXPLICITLY SPECIFIED TO BE CONTAINER GROWN WILL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL IS OBTAINED FROM THE OWNER OR OWNER'S REPRESENTATIVE.

K. COLLECTED STOCK

WHEN THE USE OF COLLECTED STOCK IS PERMITTED AS INDICATED BY THE OWNER OR OWNER'S REPRESENTATIVE, THE MINIMUM SIZES OF ROOTBALLS SHALL BE EQUAL TO THAT SPECIFIED FOR THE NEXT LARGER SIZE OF NURSERY GROWN STOCK OF THE SAME VARIETY.

L. NATIVE STOCK

PLANTS COLLECTED FROM WILD OR NATIVE STANDS SHALL BE CONSIDERED NURSERY GROWN WHEN THEY HAVE BEEN SUCCESSFULLY RE-ESTABLISHED IN A NURSERY ROW AND GROWN UNDER REGULAR NURSERY CULTURAL PRACTICES FOR A MINIMUM OF TWO (2) GROWING SEASONS AND HAVE ATTAINED ADEQUATE ROOT AND TOP GROWTH TO INDICATE FULL RECOVERY FROM TRANSPLANTING INTO THE NURSERY ROW.

M. MATERIALS LIST

QUANTITIES NECESSARY TO COMPLETE THE WORK ON THE DRAWINGS SHALL BE FURNISHED BY THE CONTRACTOR. QUANTITY ESTIMATES HAVE BEEN MADE CAREFULLY, BUT THE LANDSCAPE ARCHITECT OR OWNER ASSUMES NO LIABILITY FOR OMISSIONS OR ERRORS. SHOULD A DISCREPANCY OCCUR BETWEEN THE PLANS AND THE PLANT LIST QUANTITY, THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION PRIOR TO BIDDING OR INSTALLATION. ALL DIMENSIONS AND/OR SIZES SPECIFIED SHALL BE THE MINIMUM ACCEPTABLE SIZE

N. FINE GRADING

1. FINE GRADING UNDER THIS CONTRACT SHALL CONSIST OF FINAL FINISHED GRADING OF LAWN AND PLANTING AREAS THAT HAVE BEEN ROUGH GRADED BY OTHERS. BERMING AS SHOWN ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL FINE GRADE THE LAWN AND PLANTING AREAS TO BRING THE ROUGH GRADE UP TO FINAL FINISHED GRADE ALLOWING FOR THICKNESS OF SOD AND/OR MULCH DEPTH. THIS CONTRACTOR SHALL FINE GRADE BY HAND AND/OR WITH ALL EQUIPMENT NECESSARY INCLUDING A GRADING TRACTOR WITH FRONT-END LOADER FOR TRANSPORTING SOIL WITHIN THE SITE.
3. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED FOR POSITIVE DRAINAGE TO SURFACE/SUBSURFACE STORM DRAIN SYSTEMS. AREAS ADJACENT TO BUILDINGS SHALL SLOPE AWAY FROM THE BUILDINGS. REFER TO CIVIL ENGINEER'S PLANS FOR FINAL GRADES.

O. PLANTING PROCEDURES

1. CLEANING UP BEFORE COMMENCING WORK: THE CONTRACTOR SHALL CLEAN WORK AND SURROUNDING AREAS OF ALL RUBBISH OR OBJECTIONABLE MATTER. ALL MORTAR, CEMENT, AND TOXIC MATERIAL SHALL BE REMOVED FROM THE SURFACE OF ALL PLANT BEDS. THESE MATERIALS SHALL NOT BE MIXED WITH THE SOIL. SHOULD THE CONTRACTOR FIND SUCH SOIL CONDITIONS BENEATH THE SOIL WHICH WILL IN ANY WAY ADVERSELY AFFECT THE PLANT GROWTH, HE SHALL IMMEDIATELY CALL IT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. FAILURE TO DO SO BEFORE PLANTING SHALL MAKE THE CORRECTIVE MEASURES THE RESPONSIBILITY OF THE CONTRACTOR.
2. VERIFY LOCATIONS OF ALL UTILITIES, CONDUITS, SUPPLY LINES AND CABLES, INCLUDING BUT NOT LIMITED TO: ELECTRIC, GAS (LINES AND TANKS), WATER, SANITARY SEWER, STORMWATER SYSTEMS, CABLE, AND TELEPHONE. PROPERLY MAINTAIN AND PROTECT EXISTING UTILITIES. CALL NATIONAL ONE CALL - 811 - TO LOCATE UTILITIES.
3. SUBGRADE EXCAVATION: CONTRACTOR IS RESPONSIBLE TO REMOVE ALL EXISTING AND IMPORTED LIMEROCK AND LIMEROCK SUB-BASE FROM ALL LANDSCAPE PLANTING AREAS TO A MINIMUM DEPTH OF 36". CONTRACTOR IS RESPONSIBLE TO BACKFILL THESE PLANTING AREAS TO ROUGH FINISHED GRADE WITH CLEAN TOPSOIL FROM AN ON-SITE SOURCE OR AN IMPORTED SOURCE. IF LIMEROCK OR OTHER ADVERSE CONDITIONS OCCUR IN PLANTED AREAS AFTER 36" DEEP EXCAVATION BY THE CONTRACTOR, AND ADEQUATE PERCOLATION CAN NOT BE ACHIEVED, CONTRACTOR SHALL UTILIZE PLANTING DETAIL THAT ADDRESSES POOR DRAINAGE.
4. FURNISH NURSERY'S CERTIFICATE OF COMPLIANCE WITH ALL REQUIREMENTS AS HEREIN SPECIFIED AND REQUIRED. INSPECT AND SELECT PLANT MATERIALS BEFORE PLANTS ARE DUG AT NURSERY OR GROWING SITE.
5. GENERAL: COMPLY WITH APPLICABLE FEDERAL, STATE, COUNTY, AND LOCAL REGULATIONS GOVERNING LANDSCAPE MATERIALS AND WORK. CONFORM TO ACCEPTED HORTICULTURAL PRACTICES AS USED IN THE TRADE. UPON ARRIVAL AT THE SITE , PLANTS SHALL BE THOROUGHLY WATERED AND PROPERLY MAINTAINED UNTIL PLANTED. PLANTS STORED ON-SITE SHALL NOT REMAIN UNPLANTED FOR A PERIOD EXCEEDING TWENTY-FOUR (24) HOURS. AT ALL TIMES, METHODS CUSTOMARY IN GOOD HORTICULTURAL PRACTICES SHALL BE EXERCISED.
6. THE WORK SHALL BE COORDINATED WITH OTHER TRADES TO PREVENT CONFLICTS. COORDINATE PLANTING WITH IRRIGATION WORK TO ASSURE AVAILABILITY OF WATER AND PROPER LOCATION OF IRRIGATION APPURTENANCES AND PLANTS.
7. ALL PLANTING PITS SHALL BE EXCAVATED TO SIZE AND DEPTH IN ACCORDANCE WITH THE USA STANDARD FOR NURSERY STOCK 260.1, UNLESS SHOWN OTHERWISE ON THE DRAWINGS, AND BACKFILLED WITH THE PREPARED PLANTING SOIL MIXTURE AS SPECIFIED IN SECTION E. TEST ALL TREE PITS WITH WATER BEFORE PLANTING TO ASSURE PROPER DRAINAGE PERCOLATION IS AVAILABLE. NO ALLOWANCE WILL BE MADE FOR LOST PLANTS DUE TO IMPROPER PERCOLATION. IF POOR PERCOLATION EXISTS, UTILIZE "POOR DRAINAGE CONDITION" PLANTING DETAIL. TREES SHALL BE SET PLUMB AND HELD IN POSITION UNTIL THE PLANTING MIXTURE HAS BEEN FLUSHED INTO PLACE WITH A SLOW, FULL HOSE STREAM. ALL PLANTING SHALL BE PERFORMED BY PERSONNEL FAMILIAR WITH PLANTING PROCEDURES AND UNDER THE SUPERVISION OF A QUALIFIED LANDSCAPE FOREMAN. PROPER "JETTING IN" SHALL BE ASSURED TO ELIMINATE AIR POCKETS AROUND THE ROOTS. "JET STICK" OR EQUAL IS RECOMMENDED.
8. TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO BUILDINGS AND BUILDING STRUCTURES WHILE INSTALLING TREES.
9. SOIL MIXTURE SHALL BE AS SPECIFIED IN SECTION E OF THESE SPECIFICATIONS.
10. TREES AND SHRUBS SHALL BE SET STRAIGHT AT AN ELEVATION THAT, AFTER SETTLEMENT, THE PLANT CROWN WILL STAND ONE (1) TO TWO (2) INCHES ABOVE GRADE. EACH PLANT SHALL BE SET IN THE CENTER OF THE PIT. PLANTING SOIL MIXTURE SHALL BE BACKFILLED, THOROUGHLY TAMPED AROUND THE BALL, AND SETTLED BY WATER (AFTER TAMPING).
11. AMEND PINE AND OAK PLANT PITS WITH ECTOMYCORRHIZAL SOIL APPLICATION PER MANUFACTURER'S RECOMMENDATION. ALL OTHER PLANT PITS SHALL BE AMENDED WITH ENDOMYCORRHIZAL SOIL APPLICATION PER MANUFACTURER'S RECOMMENDATION. PROVIDE PRODUCT INFORMATION SUBMITTAL PRIOR TO INOCULATION.
12. FILL HOLE WITH SOIL MIXTURE, MAKING CERTAIN ALL SOIL IS SATURATED. TO DO THIS, FILL HOLE WITH WATER AND ALLOW TO SOAK MINIMUM TWENTY (20) MINUTES, STIRRING IF NECESSARY TO GET SOIL THOROUGHLY WET. PACK LIGHTLY WITH FEET. ADD MORE WET SOIL MIXTURE. DO NOT COVER TOP OF BALL WITH SOIL MIXTURE, ONLY WITH MULCH. ALL BURLAP, ROPE, WIRES, BASKETS, ETC.., SHALL BE REMOVED FROM THE SIDES AND TOPS OF BALLS, BUT NO BURLAP SHALL BE PULLED FROM UNDERNEATH.
13. PRUNING: TREES SHALL BE PRUNED, AT THE DIRECTION OF THE OWNER OR OWNER'S REPRESENTATIVE, TO PRESERVE THE NATURAL CHARACTER OF THE PLANT. ALL SOFT WOOD OR SUCKER GROWTH AND ALL BROKEN OR BADLY DAMAGED BRANCHES SHALL BE REMOVED WITH A CLEAN CUT. ALL PRUNING TO BE PERFORMED BY LICENSED ARBORIST, IN ACCORDANCE WITH ANSI A-300.
14. SHRUBS AND GROUND COVER PLANTS SHALL BE EVENLY SPACED IN ACCORDANCE WITH THE DRAWINGS AND AS INDICATED ON THE PLANT LIST. CULTIVATE ALL PLANTING AREAS TO A MINIMUM DEPTH OF 6", REMOVE AND DISPOSE ALL DEBRIS. MIX FOR 4" TO 6" SOIL MIXTURE AS SPECIFIED IN SECTION E. THOROUGHLY WATER ALL PLANTS AFTER INSTALLATION.
15. TREE GUYING AND BRACING SHALL BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE PLANS TO INSURE STABILITY AND MAINTAIN TREES IN AN UPRIGHT POSITION. IF THE CONTRACTOR AND OWNER DECIDE TO WAIVE THE TREE GUYING AND BRACING, THE OWNER SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING AND AGREE TO INDEMNIFY AND HOLD HARMLESS THE LANDSCAPE ARCHITECT IN THE EVENT UNSUPPORTED TREES PLANTED UNDER THIS CONTRACT FALL AND DAMAGE PERSON OR PROPERTY.
16. MULCHING: PROVIDE A THREE INCH (MINIMUM) LAYER OF SPECIFIED MULCH OVER THE ENTIRE AREA OF EACH SHRUB BED, GROUND COVER, VINE BED, AND TREE PIT PLANTED UNDER THIS CONTRACT.
17. HERBICIDE WEED CONTROL: ALL PLANT BEDS SHALL BE KEPT FREE OF NOXIOUS WEEDS UNTIL FINAL ACCEPTANCE OF WORK. IF DIRECTED BY THE OWNER, "ROUND-UP" SHALL BE APPLIED FOR WEED CONTROL BY QUALIFIED PERSONNEL TO ALL PLANTING AREAS IN SPOT APPLICATIONS PER MANUFACTURER'S PRECAUTIONS AND SPECIFICATIONS. PRIOR TO FINAL INSPECTION, TREAT ALL PLANTING BEDS WITH AN APPROVED PRE-EMERGENT HERBICIDE AT AN APPLICATION RATE RECOMMENDED BY THE MANUFACTURER. (AS ALLOWED BY JURISDICTIONAL AUTHORITY)

P. LAWN SODDING

1. THE WORK CONSISTS OF LAWN BED PREPARATION, SOIL PREPARATION, AND SODDING COMPLETE, IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND THE APPLICABLE DRAWINGS TO PRODUCE A TURF GRASS LAWN ACCEPTABLE TO THE OWNER.
2. LAWN BED PREPARATION: ALL AREAS THAT ARE TO BE SODDED SHALL BE CLEARED OF ANY ROUGH GRASS, WEEDS, AND DEBRIS, AND THE GROUND BROUGHT TO AN EVEN GRADE. THE ENTIRE SURFACE SHALL BE ROLLED WITH A ROLLER WEIGHING NOT MORE THAN ONE-HUNDRED (100) POUNDS PER FOOT OF WIDTH. DURING THE ROLLING, ALL DEPRESSIONS CAUSED BY SETTLEMENT SHALL BE FILLED WITH ADDITIONAL SOIL, AND THE SURFACE SHALL BE REGRADED AND ROLLED UNTIL PRESENTING A SMOOTH AND EVEN FINISH TO THE REQUIRED GRADE.
3. SOIL PREPARATION: PREPARE LOOSE BED FOUR (4) INCHES DEEP. HAND RAKE UNTIL ALL BUMPS AND DEPRESSIONS ARE REMOVED. WET PREPARED AREA THOROUGHLY.
4. SODDING
   A. THE CONTRACTOR SHALL SOD ALL AREAS THAT ARE NOT PAVED OR PLANTED AS DESIGNATED ON THE DRAWINGS WITHIN THE CONTRACT LIMITS, UNLESS SPECIFICALLY NOTED OTHERWISE.
   B. THE SOD SHALL BE CERTIFIED TO MEET FLORIDA STATE PLANT BOARD SPECIFICATIONS, ABSOLUTELY TRUE TO VARIETAL TYPE, AND FREE FROM WEEDS, FUNGUS, INSECTS AND DISEASE OF ANY KIND.
   C. SOD PANELS SHALL BE LAID TIGHTLY TOGETHER SO AS TO MAKE A SOLID SODDED LAWN AREA. SOD SHALL BE LAID UNIFORMLY AGAINST THE EDGES OF ALL CURBS AND OTHER HARDSCAPE ELEMENTS, PAVED AND PLANTED AREAS. ADJACENT TO BUILDINGS, A 24 INCH STONE MULCH STRIP SHALL BE PROVIDED - REFER TO DETAILS. IMMEDIATELY FOLLOWING SOD LAYING, THE LAWN AREAS SHALL BE ROLLED WITH A LAWN ROLLER CUSTOMARILY USED FOR SUCH PURPOSES, AND THEN THOROUGHLY IRRIGATED. IF, IN THE OPINION OF THE OWNER, TOP-DRESSING IS NECESSARY AFTER ROLLING TO FILL THE VOIDS BETWEEN THE SOD PANELS AND TO EVEN OUT INCONSISTENCIES IN THE SOD, CLEAN SAND, AS APPROVED BY THE OWNER'S REPRESENTATIVE, SHALL BE UNIFORMLY SPREAD OVER THE ENTIRE SURFACE OF THE SOD AND THOROUGHLY WATERED IN. FERTILIZE INSTALLED SOD AS ALLOWED BY PROPERTY'S JURISDICTIONAL AUTHORITY.
5. DURING DELIVERY, PRIOR TO, AND DURING THE PLANTING OF THE LAWN AREAS, THE SOD PANELS SHALL AT ALL TIMES BE PROTECTED FROM EXCESSIVE DRYING AND UNNECESSARY EXPOSURE OF THE ROOTS TO THE SUN. ALL SOD SHALL BE STACKED SO AS NOT TO BE DAMAGED BY SWEATING OR EXCESSIVE HEAT AND MOISTURE.
6. LAWN MAINTENANCE:
   A. WITHIN THE CONTRACT LIMITS, THE CONTRACTOR SHALL PRODUCE A DENSE, WELL ESTABLISHED LAWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RE-SODDING OF ALL ERODED, SUNKEN OR BARE SPOTS (LARGER THAN 12"X12") UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER'S REPRESENTATIVE. REPAIRED SODDING SHALL BE ACCOMPLISHED AS IN THE ORIGINAL WORK (INCLUDING REGRADING IF NECESSARY).
   B. CONTRACTOR RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SOD/LAWN UNTIL ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. PRIOR TO AND UPON ACCEPTANCE, CONTRACTOR TO PROVIDE WATERING/IRRIGATION SCHEDULE TO OWNER. OBSERVE ALL APPLICABLE WATERING RESTRICTIONS AS SET FORTH BY THE PROPERTY'S JURISDICTIONAL AUTHORITY.

Q. CLEANUP

UPON COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM HIS WORK. ALL PAVED AREAS SHALL BE BROOM-CLEANED AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.

R. PLANT MATERIAL MAINTENANCE

ALL PLANTS AND PLANTING INCLUDED UNDER THIS CONTRACT SHALL BE MAINTAINED BY WATERING, CULTIVATING, SPRAYING, AND ALL OTHER OPERATIONS (SUCH AS RE-STAKING OR REPAIRING GUY SUPPORTS) NECESSARY TO INSURE A HEALTHY PLANT CONDITION BY THE CONTRACTOR UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER'S REPRESENTATIVE. MAINTENANCE AFTER THE CERTIFICATION OF ACCEPTABILITY SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS IN THIS SECTION. CONTRACTORS ARE REQUESTED TO PROVIDE A BID ESTIMATE TO COVER LANDSCAPE AND IRRIGATION MAINTENANCE FOR A PERIOD OF 90 CALENDAR DAYS COMMENCING AFTER ACCEPTANCE.

S. MAINTENANCE (ALTERNATE BID ITEM)

CONTRACTORS ARE REQUESTED TO PROVIDE A BID ESTIMATE FOR MAINTENANCE FOLLOWING THE INITIAL 90-DAY MAINTENANCE PERIOD ON A COST-PER-MONTH BASIS.

T. FINAL INSPECTION AND ACCEPTANCE OF WORK

FINAL INSPECTION AT THE END OF THE WARRANTY PERIOD SHALL BE ON PLANTING, CONSTRUCTION AND ALL OTHER INCIDENTAL WORK PERTAINING TO THIS CONTRACT. ANY REPLACEMENT AT THIS TIME SHALL BE SUBJECT TO THE SAME ONE (1) YEAR WARRANTY (OR AS SPECIFIED BY THE LANDSCAPE ARCHITECT OR OWNER IN WRITING) BEGINNING WITH THE TIME OF REPLACEMENT AND ENDING WITH THE SAME INSPECTION AND ACCEPTANCE HEREIN DESCRIBED.

U. WARRANTY

1. THE LIFE AND SATISFACTORY CONDITION OF ALL 7 GALLON AND LARGER PLANT MATERIAL INSTALLED BY THE LANDSCAPE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTABILITY BY THE OWNER'S REPRESENTATIVE.
2. THE LIFE AND SATISFACTORY CONDITION OF ALL OTHER PLANT MATERIAL (INCLUDING SOD) INSTALLED BY THE LANDSCAPE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTABILITY BY THE OWNER'S REPRESENTATIVE.
3. REPLACEMENT: ANY PLANT NOT FOUND IN A HEALTHY GROWING CONDITION AT THE END OF THE WARRANTY PERIOD SHALL BE REMOVED FROM THE SITE AND REPLACED AS SOON AS WEATHER CONDITIONS PERMIT. ALL REPLACEMENTS SHALL BE PLANTS OF THE SAME KIND AND SIZE AS SPECIFIED IN THE PLANT LIST. THEY SHALL BE FURNISHED PLANTED AND MULCHED AS SPECIFIED UNDER "PLANTING", AT NO ADDITIONAL COST TO THE OWNER.
4. IN THE EVENT THE OWNER DOES NOT CONTRACT WITH THE CONTRACTOR FOR LANDSCAPE (AND IRRIGATION) MAINTENANCE, THE CONTRACTOR IS ENCOURAGED TO VISIT THE PROJECT SITE PERIODICALLY DURING THE ONE YEAR WARRANTY PERIOD TO EVALUATE MAINTENANCE PROCEDURES BEING PERFORMED BY THE OWNER, AND SHALL NOTIFY THE OWNER IN WRITING OF MAINTENANCE PROCEDURES OR CONDITIONS WHICH THREATEN VIGOROUS AND HEALTHY PLANT GROWTH. IT IS SUGGESTED SUCH SITE VISITS SHALL BE CONDUCTED A MINIMUM OF ONCE PER MONTH FOR A PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF ACCEPTANCE.

PLANS ARE IN NAVD 1988 DATUM CONVERSION EQUATION IS BELOW: (NAVD 1988) + 1.52' = (NGVD 1929)

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

Always call 811 two full business days before you dig to have underground utilities located and marked.
Sunshine811.com

| No. | REVISIONS | DATE | BY |
|---|---

Open Space Mitigation Plan

(PER AMMENITY REQUIREMENT)

Dear Riviera Beach Development Services Department,

The applicant is writing to propose the required civic open space per Section 31-538 of the Land Development Code, is being proposed offsite as provided in the regulations. Per (a)2, the civic open space may be provided off site. Per City Council Resolution 104-21, the property designated for the future City Hall directly across Broadway is the proposed location for the Civic Open Space. The site plan for the future City Hall project has not been completed, and this proposal will provide the funding for the City construct the Civic Open Space allowing the City to complete a final design and complete construction at the appropriate time.

In order to facilitate this proposal, Safe Harbor Marinas (SHM) has created a breakout table addressing all the code required amenities and plantings that would have been required on site if the civic open space were to exist. SHM intends to provide a fee to the City of Riviera Beach in preparation for the eventual city hall redevelopment.

The table below indicates the square footage calculations:

Requirement	Proposed	Fee-In-Lieu
Civic Open Space (5%)	0 SF (0%)	48,416 SF (5%) (5% of 968,320 SF Site)

The Civic Open Space requirement was pulled from Section 31-538(a)(1) – Civic Open Spaces which states:

(1) Amount. On sites one acre or more in size, new buildings or additions of gross floor area equal to 20 percent or more to existing buildings, shall provide ***at least five percent of***

***the size of the site as a civic open space**. Dedicated rights-of-way and building setbacks may not count toward fulfilling the required amount.*

REQUIREMENTS

With the municipal code section above in mind, SHM has created a table that addresses the total number of amenities missing within the areas that are being compensated. The calculation includes landscape, hardscape, and pedestrian amenities. This format is typical of mitigation requirements in other municipalities within Palm Beach County. Please note that there is no current fee system as described above that is codified within the City of Riviera Beach Code of Ordinances.

The sections used for reference in analyzing the costs are as follows:

Civic Open Space

Section 31-538(3)(d) – Civic Open Spaces

*Square. A square is **at least 10,000 square feet** and adjoins streets on at least three sides. Squares may be up to **50 percent hardscaped**, with formal landscaping. Squares accommodate both passive uses and community gatherings.*

Section 31-538(4) (a-c) – Civic Open Spaces

a. *The civic open space shall adjoin a street front property line for no less than 30 linear feet.*
b. *Except for attached greens, civic spaces shall have a proportion so that **the depth is no more than 2.5 times the frontage width, and the width is no more than five times the depth**.*
c. *Civic open spaces shall be lined by building facades or streets on all sides. To provide oversight of the space, buildings facing civic open spaces shall contain habitable uses; parking lots, parking garages, and storage areas are not considered habitable uses.*

Section 31-538(5) (a-i) – Civic Open Spaces

a. *Civic open spaces must be accessible to the public during all daylight hours.*
b. *Civic open spaces must be situated to allow easy ingress and egress by pedestrians. Except for playgrounds, which may be fenced, no street walls, gates, fences or other impediments to pedestrian accessibility shall be permitted along the frontage line.*
c. *Civic open spaces must be located at the sidewalk level.*

d. *Civic open spaces must be open to the sky; however, open-air garden structures such as gazebos or band shells are permitted within civic open spaces.*
e. *Landscaping shall be arranged in a manner reflective of description of the type of civic open space. One shade tree per 20 feet of perimeter of the space is required. Trees may be arranged in regular spacing or in informal clusters, depending on the type of open space. Trees shall be installed to provide shade along walkways and for benches. Substituting shade trees for multiple palm species is not permitted; however, adding palms to the landscape design is permitted.*
f. *Each civic open space shall provide the following street furniture elements, specifications subject to approval by the City of Riviera Beach:*
    1. *One bench per 350 square feet of area.*
    2. *One drinking fountain.*
    3. *One bicycle rack with no less than four spaces.*
    4. *One trash receptacle.*
    5. *One pet cleans up station.*
g. *Fences are permitted only to enclose playgrounds. Fences may be composed of wood or metal pickets and shall not exceed four feet in height.*
h. *Vehicular traffic shall not be permitted within a civic open space.*
i. *Civic open spaces shall be designed to enhance user safety and security using Crime Prevention Through Environmental Design (CEPTED) principles by*
    1. *Being well lighted.*
    2. *Having one or more focal points within the open space visible from all perimeter streets.*
    3. *Having a clear landscape zone between three feet and eight feet in height providing sightlines unobstructed by berms or bushes.*

CALCULATIONS

Using the code requirements of the sections listed above, the applicant has determined that civic open space is best calculated using the requirements of the Civic Open Space “Square”. The “Square” design is limited to 10,000 SF so the final calculation included multiplying the base amount by 5 to account for total amount of area needed to meet the 48,400 SF required.

OPEN SPACE CALCULATIONS (10,000 SF SQUARE, 100' x 100')				
Use	Requirements	SF / Number	Cost (Individual / SF)	Total / Amount
Sidewalk	50% Max	5,000	$8.02	$40,100.00
Based upon FDOT Department of Transportation Item Average Unit Cost for District 4; Updated 01/23/2023: Concrete Sidewalk and Driveways, 4" Thick				
Sod Area	50%	5,000	$1.50	$7,500.00
Based upon FDOT Department of Transportation Item Average Unit Cost for District 4; Updated 01/23/2023: Performance Turf, Sod				
Shrubs	Ancillary			
Based upon national average of Small Leaf Clusia and Red Tip Cocoplum prices retrieved from plantANT; Wholesale Plat and Nursery Directory				
Trees	1 per 20' of the Perimeter	100	$400.00	$40,000.00
Based upon national average of Conocarpus erectus Sericeus (Silver Buttonwood) prices retrieved from plantANT; Wholesale Plat and Nursery Directory				
Bench Landscaping	1 per Bench	29	$450.00	$13,050.00
Based upon national average of Cordia sebestena (Orange Geiger Tree) prices retrieved from plantANT; Wholesale Plat and Nursery Directory				
Pedestrian Bench	1 per 350 SF of Area	29	$567.00	$16,443.00
Based upon estimate pricing received from park supply wholesale store Park Warehouse; Malibu Series Recycled Pastic Bench, 5' Cedar Brown.				
Drinking Fountain	1 per Square	1	$3,283.00	$3,283.00
Based upon estimate pricing received from park supply wholesale store Park Warehouse; L Series Metal Drinking Fountain Surface Mount.				
Bicycle Rack	1 per Square	1	$367.00	$367.00
Based upon estimate pricing received from park supply wholesale store Park Warehouse; 5 Bike Wave Rack Stainless Steel				
Trash Receptacle	1 per Square	1	$805.00	$805.00
Based upon estimate pricing received from park supply wholesale store Park Warehouse; 32 Gallon Park Trash Receptacle, Expanded Steel, Ash Bonnet Top and Thermoplastic Green Color.				
Pet Clean Up	1 per Square	1	$493.00	$493.00

Based upon estimate pricing received from park supply wholesale store Park Warehouse; Dog Park Pet Clean Up Waster Station, Aluminum, On Leash Signage, with Tear-Away Bags.			
TOTAL			$120,743.00
OPEN SPACE (5%)	48416.95		TOTAL VALUE OF PROPSED OPEN SPACE FEE IN LIEU
TOTAL		Multiplied by ~4.8	$584,589.31
		Rounded up to 5 Squares	$603,715.00

In total, SHM proposes to pay $604,000 in fees associated with providing civic open space. We believe this proposal satisfies the requirement.

If you have any questions or require additional information, please do not hesitate to contact me.

Sincerely,

Liam Sargent

Planner

Kimley-Horn & Associates

Community Outreach

Lakeview Park Neighborhood Outreach Meeting

April 15, 2023 3:00 PM

Attendees:

Peter and Robin Fields, 256 E 22nd Ct, 561-301-7438
Philip Ruatolo, 196 E 22nd Ct, 239-691-2603
William Bruckner, 2200 Broadway, 561-723-8547
Kim Sessa, 2200 Broadway, 561-723-8547
Collin/Luise Macht, 208 E 22nd Ct, 561-562-1787
Johnathan/Michelle Inman, 224- E 22nd Ct, 239-738-3472
John Strauss, 2250 Broadway, 561-722-4014
Michael Hutchings, 186 E 22nd Ct., 561-283-5283
Ana Vergne, 167 E 24th St, 561-305-8582
Brandi Davis Balsamo, 217 E 23rd St, 619-419-8716
Ronda/Mike Patterson, 164 E 22nd Ct, 561-459-0905
Neil Mahoney, 12940 N Shore Dr, Palm Beach Gardens, 847-323-1434
Mike Mahoney, 2120 Broadway, (Dee's Tee's), 561-308-5786
Nora Mahoney, 2120 Broadway, 561-842-5800
John Wagner, 248 E 23rd St, 203-556-3626
Travis Bethea, 37 E 24th St, 501-354-8389
Alex Hess, 31 E 24th St, 267-218-3619
Janice Jones, 150 E 23rd St, 561-633-9107
W. Scott Smith, 120 E 23rd St, 561-351-9354
Margaret Shepherd

The proposed site plan was reviewed.

- Ana Vergne and Travis Bethea voiced concerns regarding traffic in the neighborhood.
- Ana Vergne complained about flooding in the neighborhood.
- Ana Vergne complained about odors in the neighborhood.
- Many complaints voiced concerning lack of attention and funding for infrastructure from the City.
- Attendees were not happy about an observation deck attracting homeless.
- Most attendees voiced general support for the Safe Harbor proposed plan.
- Many attendees asked Ana Vergne not to speak on behalf of the neighborhood.

Meeting ended at 4:15 PM.

SAFE HARBOR
RYBOVICH

NEIGHBORHOOD OUTREACH MEETING

November 7, 2022

ATTENDANCE SIGN-IN

	Name	Property Address
1		
2	Fields	256 E. 22nd
3	Davies	Safe Harbor
4	DADINOFF Smith	240 E 23rd St
5	Helen Axelson	165 E 23rd St.
6	Elizabeth Blake	111 E 23rd St
7	Margaret Shepherd	167 E 23rd
8	Mr. & Mrs. Michael J. Long Sr.	306. 23rd St.
9	Joann & Fred Raiz	198 23rd
10	Israel Stovall	195 E. 23rd
11	Louise Maclet	208 E. 22ND CT.
12	Collin Fox	" " " "
13	Robert Thomas	154 East 22 Court
14		
15	Theresa White	241 E 23rd St.
16	Viktoria Begg	232 23rd
17	Brenton Mixon	
18		

SAFE HARBOR
RYBOVICH

NEIGHBORHOOD OUTREACH MEETING

November 7, 2022

ATTENDANCE SIGN-IN

	Name	Property Address
1		
2	J. Lehman	P.O. Box 8937 WPB
3	Erika Clancy	178 E 22 Ct.
4	WALTER HOUTTEMAN	255 E 22ND CT
5	Mike Patterson	164 E 22nd ct
6	Ronda Patterson	" "
7	Michael Hutchings	186 east 22nd Ct.
8	Richard Deal	260 E. 23rd
9	Kristen Mixa	1920 Metrica Way Suite 200 WPB
10	William Beck	2300 Broadway
11	Peter Hall Qa	
12	Paige Parker	
13	Debora S. Nelson	174 East 23rd St
14		
15		
16		
17		
18		

SAFE HARBOR
RYBOVICH

NEIGHBORHOOD OUTREACH MEETING

November 7, 2022

ATTENDANCE SIGN-IN

	Name	Property Address
1		
2	Linda Fitzgerald	248 E 22nd Ct
3	Ted Fitzgerald	" "
4	Maureen Fitzgerald	" "
5	John Fitzgerald	" "
6	Brandy Davis - Balsamo	217 e. 23rd St., RB, 33404
7	Travis Bethe	31 E 24th St RB 33404
8	Shannon Barac	190 E 23 St. 33404
9	Branko Barac	190 E 23rd 33404
10	Philip Ruotolo	196 E. 22nd Ct.
11	Kathe Ruotolo	"
12	Paulee Sohlen	324 E 24th St
13	Cecilia Caceres Aguilar	158 E 23rd
14	Maurice Nelson	174 E 23rd St
15		
16		
17		
18		

SAFE HARBOR
RYBOVICH

NEIGHBORHOOD IMPROVEMENT PLAN
COMMUNITY INPUT FORM

Name: Ana Vargas Date: 11/7/22

Property Address: NEN & 24th St

✓ ____ I am the owner of the property listed above

____ I am the current occupant at the property listed above

____ Please notify me by email of all public meetings associated with this project

Email: [illegible]

✓ ____ Yes, I support repaving 22nd Court 22 23 24 25 ____ No, I do not support 22nd Court being repaved

✓ ____ Yes, I support installing a sidewalk and curbing on the north side of 22nd Court 23, 24, 25

____ No, I do not support installing a sidewalk and curbing on the north side of 22nd Court

✓ ____ Yes, I support building a new deck with seating for public use at the east end of 22nd Court 24th, 25th

____ No, I do not support building a new deck with seating for public use at the east end of 22nd Court

Additional Comments: _____

_____

_____

_____

SAFE HARBOR
RYBOVICH

NEIGHBORHOOD IMPROVEMENT PLAN
COMMUNITY INPUT FORM

Name: Travis Bethea Date: 11/7/22

Property Address: 37 E 24th St

X I am the owner of the property listed above

____ I am the current occupant at the property listed above

____ Please notify me by email of all public meetings associated with this project

Email: _____

V Yes, I support repaving 22nd Court 23 24 25 ____ No, I do not support 22nd Court being repaved

V Yes, I support installing a sidewalk and curbing on the north side of 22nd Court 23rd 24th 25th

____ No, I do not support installing a sidewalk and curbing on the north side of 22nd Court

V Yes, I support building a new deck with seating for public use at the east end of 22nd Court 23rd 24th 25th

____ No, I do not support building a new deck with seating for public use at the east end of 22nd Court

Additional Comments: _____

_____

_____

_____

SAFE HARBOR
RYBOVICH

NEIGHBORHOOD IMPROVEMENT PLAN
COMMUNITY INPUT FORM

Name: Jamie Lehman **Date:** _____

Property Address: 51 E. 23rd St

X I am the owner of the property listed above

____ I am the current occupant at the property listed above

____ Please notify me by email of all public meetings associated with this project

Email: JamieL40@comcast.net

____ Yes, I support repaving 22nd Court ____ No, I do not support 22nd Court being repaved

____ Yes, I support installing a sidewalk and curbing on the north side of 22nd Court

____ No, I do not support installing a sidewalk and curbing on the north side of 22nd Court

____ Yes, I support building a new deck with seating for public use at the east end of 22nd Court

____ No, I do not support building a new deck with seating for public use at the east end of 22nd Court

Additional Comments: I do not want increased noise at my property.

Thank you.

SAFE HARBOR
RYBOVICH

NEIGHBORHOOD IMPROVEMENT PLAN
COMMUNITY INPUT FORM

Name: Ronda Patterson Date: 11-7-2022

Property Address: 164 E. 22nd Court, Riviera Beach, FL 33404

X I am the owner of the property listed above

X I am the current occupant at the property listed above

___ Please notify me by email of all public meetings associated with this project

Email: RAHorsegirl@gmail.com

X Yes, I support repaving 22nd Court ___ No, I do not support 22nd Court being repaved

___ Yes, I support installing a sidewalk and curbing on the north side of 22nd Court

X No, I do not support installing a sidewalk and curbing on the north side of 22nd Court

X Yes, I support building a new deck with seating for public use at the east end of 22nd Court

___ No, I do not support building a new deck with seating for public use at the east end of 22nd Court

Additional Comments: I approve sidewalk on South side of E. 22nd Court. I wish for speed bumps on E. 22nd Court.

SAFE HARBOR
RYBOVICH

NEIGHBORHOOD IMPROVEMENT PLAN
COMMUNITY INPUT FORM

Name: Mike Patterson Date: 11-7-2022

Property Address: 164 E. 22nd Court, Riviera Beach, FL 33404

X I am the owner of the property listed above

X I am the current occupant at the property listed above

___ Please notify me by email of all public meetings associated with this project

Email: RAHorsegirl@gmail.com

X Yes, I support repaving 22nd Court ___ No, I do not support 22nd Court being repaved

X Yes, I support installing a sidewalk and curbing on the ~~south~~ South side of 22nd Court

X No, I do not support installing a sidewalk and curbing on the north side of 22nd Court

X Yes, I support building a new deck with seating for public use at the east end of 22nd Court

___ No, I do not support building a new deck with seating for public use at the east end of 22nd Court

Additional Comments: Want Speed Bumps on E. 22nd Court.

SAFE HARBOR
RYBOVICH

NEIGHBORHOOD IMPROVEMENT PLAN
COMMUNITY INPUT FORM

Name: Shannon & Branko Barac Date: 11/07/22

Property Address: 190 E 23rd St.

X I am the owner of the property listed above

___ I am the current occupant at the property listed above

___ Please notify me by email of all public meetings associated with this project

Email: Shannonbarac@gmail.com

X Yes, I support repaving 22nd Court ___ No, I do not support 22nd Court being repaved

X Yes, I support installing a sidewalk and curbing on the north side of 22nd Court 23rd, 24th & 25th

___ No, I do not support installing a sidewalk and curbing on the north side of 22nd Court

X Yes, I support building a new deck with seating for public use at the east end of 22nd Court

___ No, I do not support building a new deck with seating for public use at the east end of 22nd Court

X→ MAKE THIS NEIGHBORHOOD LOOK GREAT FOR ALL THE PEOPLE COMING IN & OUT SEE HOW BEAUTIFUL IT IS.

Additional Comments: Things That Would really help and benefit the neighborhood. ① Speed bumps, Sidewalks an art ~~INSTALLATION~~ or Mural on Garage for residents that have it as a view. Maybe a park? a place to Launch Kayaks on N. 22nd ct., & Viewing area. Dog Park, Play Ground

SAFE HARBOR
RYBOVICH

NEIGHBORHOOD IMPROVEMENT PLAN
COMMUNITY INPUT FORM

Name: TERESA & STEPHEN FLEISCHER Date: 11.7.2022

Property Address: 232 E 23~~5~~4

X I am the owner of the property listed above

____ I am the current occupant at the property listed above

____ Please notify me by email of all public meetings associated with this project

Email: FLEISCHER.TERESA@GMAIL.COM

____ Yes, I support repaving 22nd Court ____ No, I do not support 22nd Court being repaved

____ Yes, I support installing a sidewalk and curbing on the north side of 22nd Court

____ No, I do not support installing a sidewalk and curbing on the north side of 22nd Court

____ Yes, I support building a new deck with seating for public use at the east end of 22nd Court

____ No, I do not support building a new deck with seating for public use at the east end of 22nd Court

Additional Comments: _____

SAFE HARBOR
RYBOVICH

NEIGHBORHOOD IMPROVEMENT PLAN
COMMUNITY INPUT FORM

Name: Ruth Ruotolo Date: 11-7-22

Property Address: 196 E. 22nd Ct.

✓ I am the owner of the property listed above

✓ I am the current occupant at the property listed above

✓ Please notify me by email of all public meetings associated with this project

Email: RRUOTOLO115@COMCAST.NET

✓ Yes, I support repaving 22nd Court ____ No, I do not support 22nd Court being repaved

____ Yes, I support installing a sidewalk and curbing on the north side of 22nd Court

✓ No, I do not support installing a sidewalk and curbing on the north side of 22nd Court

____ Yes, I support building a new deck with seating for public use at the east end of 22nd Court

____ No, I do not support building a new deck with seating for public use at the east end of 22nd Court

Additional Comments: _____

SAFE HARBOR
RYBOVICH

NEIGHBORHOOD IMPROVEMENT PLAN
COMMUNITY INPUT FORM

Name: PHILIP G RUOTOLO Date: 11-7-22

Property Address: 196 E. 22ND CT

✓ I am the owner of the property listed above

✓ I am the current occupant at the property listed above

____ Please notify me by email of all public meetings associated with this project

Email: RRUOTOLO115@COMCAST.NET

✓ Yes, I support repaving 22nd Court ____ No, I do not support 22nd Court being repaved

____ Yes, I support installing a sidewalk and curbing on the north side of 22nd Court

✓ No, I do not support installing a sidewalk and curbing on the north side of 22nd Court

____ Yes, I support building a new deck with seating for public use at the east end of 22nd Court

____ No, I do not support building a new deck with seating for public use at the east end of 22nd Court

Additional Comments: _____

SAFE HARBOR
BYBOVICH

NEIGHBORHOOD IMPROVEMENT PLAN
COMMUNITY INPUT FORM

Name: Kathleen Hall Date: 11-7-22

Property Address: 200 E 22nd Ct.

N/A I am the owner of the property listed above

✓ I am the current occupant at the property listed above

✓ Please notify me by email of all public meetings associated with this project

Email: Kathleenhall503@gmail.com

K.H. ✓ Yes, I support repaving 22nd Court ____ No, I do not support 22nd Court being repaved

____ Yes, I support installing a sidewalk and curbing on the north side of 22nd Court

K.H. ✓ No, I do not support installing a sidewalk and curbing on the north side of 22nd Court

K.H. ✓ Yes, I support building a new deck with seating for public use at the east end of 22nd Court

____ No, I do not support building a new deck with seating for public use at the east end of 22nd Court

Additional Comments: Don't really want a wall

SAFE HARBOR
RYBOVICH

NEIGHBORHOOD IMPROVEMENT PLAN
COMMUNITY INPUT FORM

Name: Elizabeth Halve **Date:** 11/7/22

Property Address: 111 E 23rd St

____ I am the owner of the property listed above

____ I am the current occupant at the property listed above

✓ Please notify me by email of all public meetings associated with this project

Email: processingoffers@gmail.com

____ Yes, I support repaving 22nd Court ____ No, I do not support 22nd Court being repaved

✓ Yes, I support installing a sidewalk and curbing on the north side of 22nd Court

____ No, I do not support installing a sidewalk and curbing on the north side of 22nd Court

✓ Yes, I support building a new deck with seating for public use at the east end of 22nd Court

____ No, I do not support building a new deck with seating for public use at the east end of 22nd Court

Additional Comments:

SAFE HARBOR
RYBOVICH

NEIGHBORHOOD IMPROVEMENT PLAN
COMMUNITY INPUT FORM

Name: Janice Jones Date: 11/7/22

Property Address: 150 E. 23rd St.

X I am the owner of the property listed above

X I am the current occupant at the property listed above

X Please notify me by email of all public meetings associated with this project

Email: nursejanice150@aol.com

X Yes, I support repaving 22nd Court ____ No, I do not support 22nd Court being repaved

X Yes, I support installing a sidewalk and curbing on the north side of 22nd Court

____ No, I do not support installing a sidewalk and curbing on the north side of 22nd Court

X Yes, I support building a new deck with seating for public use at the east end of 22nd Court

____ No, I do not support building a new deck with seating for public use at the east end of 22nd Court

Additional Comments: My main concern was that the deck with seating be done at end of 22nd Ct. for public use. A kayak launch area was mentioned, that would be very nice too! (I used to watch the sunrise with my coffee on the deck & it will be nice again!

SAFE HARBOR
RYBOVICH

NEIGHBORHOOD IMPROVEMENT PLAN
COMMUNITY INPUT FORM

Name: Brian Zaker Date: 11-7-2022

Property Address: 150 East 23rd St

____ I am the owner of the property listed above

__X__ I am the current occupant at the property listed above

__X__ Please notify me by email of all public meetings associated with this project

Email: lovancher150@aol.com

____ Yes, I support repaving 22nd Court ____ No, I do not support 22nd Court being repaved

____ Yes, I support installing a sidewalk and curbing on the north side of 22nd Court

____ No, I do not support installing a sidewalk and curbing on the north side of 22nd Court

__X__ Yes, I support building a new deck with seating for public use at the east end of 22nd Court

____ No, I do not support building a new deck with seating for public use at the east end of 22nd Court

Additional Comments: _____

4200 N Flagler Drive | West Palm Beach, FL 33407 | 561.840.8190

SAFE HARBOR
RYBOVICH

NEIGHBORHOOD IMPROVEMENT PLAN

COMMUNITY INPUT FORM

Name: Peter Hruda Date: 11-7-22

Property Address: 2305 Lake Shore 23rd Ct,

I am the owner of the property listed above

I am the current occupant at the property listed above

Please notify me by email of all public meetings associated with this project

Email: phruda@suroveneelectric.net

___ Yes, I support repaving 22nd Court

No, I do not support 22nd Court being repaved

___ Yes, I support installing a sidewalk and curbing on the north side of 22nd Court

No, I do not support installing a sidewalk and curbing on the north side of 22nd Court

___ Yes, I support building a new deck with seating for public use at the east end of 22nd Court

No, I do not support building a new deck with seating for public use at the east end of 22nd Court

Additional Comments: NO WALLS OPEN PLAN. SIDE WALK IN ALL ROAD WAYS. & STORM DRAIN @

SAFE HARBOR
RYBOVICH

NEIGHBORHOOD IMPROVEMENT PLAN
COMMUNITY INPUT FORM

Name: Brandy Davis-Balsamo Date: 11/7/22

Property Address: 217 e. 23rd St, Riviera Beach, FL 33404

____ I am the owner of the property listed above

____ I am the current occupant at the property listed above

__X__ Please notify me by email of all public meetings associated with this project

Email: b.davisbalsamo@gmail.com

____ Yes, I support repaving 22nd Court ____ No, I do not support 22nd Court being repaved

____ Yes, I support installing a sidewalk and curbing on the north side of 22nd Court

____ No, I do not support installing a sidewalk and curbing on the north side of 22nd Court

____ Yes, I support building a new deck with seating for public use at the east end of 22nd Court

____ No, I do not support building a new deck with seating for public use at the east end of 22nd Court

Additional Comments: Not comfortable with taking our public roads and creating a bottleneck for the cut-through traffic in our neighborhood. Also not comfortable with the amount of hard surface on the property.

SAFE HARBOR
RYBOVICH

NEIGHBORHOOD IMPROVEMENT PLAN
COMMUNITY INPUT FORM

Name: Louise Macht Date: 11.7.22

Property Address: 208 E. 22ND Ct. RB. FL 33404

✓ I am the owner of the property listed above

✓ I am the current occupant at the property listed above

✓ Please notify me by email of all public meetings associated with this project

Email: brnidsgn3129@gmail.com

✓ Yes, I support repaving 22nd Court ____ No, I do not support 22nd Court being repaved

____ Yes, I support installing a sidewalk and curbing on the north side of 22nd Court

✓ No, I do not support installing a sidewalk and curbing on the north side of 22nd Court

✓ Yes, I support building a new deck with seating for public use at the east end of 22nd Court

✓ No, I do not support building a new deck with seating for public use at the east end of 22nd Court

Additional Comments: We Support positive change ♥!
Welcome to the neighborhood
We would like to be helpful @ any time!! ☺

LMB 561-281-3129

SAFE HARBOR
RYBOVICH

NEIGHBORHOOD IMPROVEMENT PLAN
COMMUNITY INPUT FORM

Name: Steven Balsamo Date: 11-07-2022

Property Address: 217 east 23rd Street

✓ I am the owner of the property listed above

____ I am the current occupant at the property listed above

____ Please notify me by email of all public meetings associated with this project

Email: _____

✓ Yes, I support repaving 22nd Court ____ No, I do not support 22nd Court being repaved

✓ Yes, I support installing a sidewalk and curbing on the north side of 22nd Court

____ No, I do not support installing a sidewalk and curbing on the north side of 22nd Court

✓ Yes, I support building a new deck with seating for public use at the east end of 22nd Court

____ No, I do not support building a new deck with seating for public use at the east end of 22nd Court

Additional Comments: I have a big concern regarding the increase of traffic associated w/ your expansion The north to south cutting traffic to reach the 22nd Street gate has to be addressed asap.

Thank you

SAFE HARBOR
RYBOVICH

NEIGHBORHOOD IMPROVEMENT PLAN
COMMUNITY INPUT FORM

Name: Michael Hutchings Date: 10-7-2022

Property Address: 186 east 22nd Ct.

X I am the owner of the property listed above

X I am the current occupant at the property listed above

X Please notify me by email of all public meetings associated with this project

Email: MichaelVHutchings@Gmail.com

X Yes, I support repaving 22nd Court ____ No, I do not support 22nd Court being repaved

____ Yes, I support installing a sidewalk and curbing on the north side of 22nd Court

X No, I do not support installing a sidewalk and curbing on the north side of 22nd Court

X Yes, I support building a new deck with seating for public use at the east end of 22nd Court

____ No, I do not support building a new deck with seating for public use at the east end of 22nd Court

Additional Comments: Concerned about parking structure South side will it block my solar panels from getting its proper Sunlight

SAFE HARBOR
RYBOVICH

NEIGHBORHOOD IMPROVEMENT PLAN
COMMUNITY INPUT FORM

Name: Fred Rain JoAnn Rain Date: 11-7-22

Property Address: 198 E 24th Street

✓ I am the owner of the property listed above

✓ I am the current occupant at the property listed above

___ Please notify me by email of all public meetings associated with this project

Email: elite2348@gmail.com

___ Yes, I support repaving 22nd Court ___ No, I do not support 22nd Court being repaved

___ Yes, I support installing a sidewalk and curbing on the north side of 22nd Court

___ No, I do not support installing a sidewalk and curbing on the north side of 22nd Court

___ Yes, I support building a new deck with seating for public use at the east end of 22nd Court

___ No, I do not support building a new deck with seating for public use at the east end of 22nd Court

Additional Comments: We are Concerned over changes to zoning. traffic on B Ave (We live on it) & do not like the only light at 22nd We always exit at 21st & head south & make a U-Turn at the light is horrible-

SAFE HARBOR
RYBOVICH

NEIGHBORHOOD IMPROVEMENT PLAN
COMMUNITY INPUT FORM

Name: Linda Fitzgerald Date: 11-7-22

Property Address: 248 E 22nd Crt

✓ I am the owner of the property listed above

____ I am the current occupant at the property listed above

✓ Please notify me by email of all public meetings associated with this project

Email: lindafitz18@yahoo.com

✓ Yes, I support repaving 22nd Court ____ No, I do not support 22nd Court being repaved

____ Yes, I support installing a sidewalk and curbing on the north side of 22nd Court

✓ No, I do not support installing a sidewalk and curbing on the north side of 22nd Court

____ Yes, I support building a new deck with seating for public use at the east end of 22nd Court

____ No, I do not support building a new deck with seating for public use at the east end of 22nd Court

Additional Comments: _____

4200 N Flagler Drive | West Palm Beach, FL 33407 | 561.840.8190

SAFE HARBOR
RYBOVICH

NEIGHBORHOOD IMPROVEMENT PLAN
COMMUNITY INPUT FORM

Name: Israel Stovall Date: 11-7-22

Property Address: 195 E. 23rd St

✓ I am the owner of the property listed above

___ I am the current occupant at the property listed above

✓ Please notify me by email of all public meetings associated with this project

Email: Gmailcastt@gmail.com

✓ Yes, I support repaving 22nd Court 23rd St 24th St 25th ___ No, I do not support 22nd Court being repaved

✓ Yes, I support installing a sidewalk and curbing on the north side of 22nd Court

___ No, I do not support installing a sidewalk and curbing on the north side of 22nd Court

___ Yes, I support building a new deck with seating for public use at the east end of 22nd Court

___ No, I do not support building a new deck with seating for public use at the east end of 22nd Court

Additional Comments: Redo the E 22nd court dirt to create a seating area

SAFE HARBOR
RYBOVICH

NEIGHBORHOOD IMPROVEMENT PLAN
COMMUNITY INPUT FORM

Name: Viktoria Begg Date: 11/7/2022

Property Address: 232 East 22nd CT

✓ I am the owner of the property listed above

✓ I am the current occupant at the property listed above

___ Please notify me by email of all public meetings associated with this project

Email: _____

___ Yes, I support repaving 22nd Court ___ No, I do not support 22nd Court being repaved

___ Yes, I support installing a sidewalk and curbing on the north side of 22nd Court

✓ No, I do not support installing a sidewalk and curbing on the north side of 22nd Court

___ Yes, I support building a new deck with seating for public use at the east end of 22nd Court

___ No, I do not support building a new deck with seating for public use at the east end of 22nd Court

Additional Comments: Concerns of... not sure yet

Would you like to buy my property?! Would be a great Neat spectators + Amazing views

SAFE HARBOR
RYBOVICH

NEIGHBORHOOD IMPROVEMENT PLAN
COMMUNITY INPUT FORM

Name: Theresa White Date: 11/7/22

Property Address: 241 E 23rd

✓ I am the owner of the property listed above

___ I am the current occupant at the property listed above

___ Please notify me by email of all public meetings associated with this project

Email: Titansgirl09@gmail.com

✓ Yes, I support repaving 22nd Court ___ No, I do not support 22nd Court being repaved
come on over to 23rd !

___ Yes, I support installing a sidewalk and curbing on the north side of 22nd Court

✓ No, I do not support installing a sidewalk and curbing on the north side of 22nd Court

✓ Yes, I support building a new deck with seating for public use at the east end of 22nd Court

___ No, I do not support building a new deck with seating for public use at the east end of 22nd Court

Thank you for taking time to listen.

Additional Comments: I do have some concerns related to traffic. ~~of~~ I reside on 23rd st and the increased number of cars driving at high rates of speed are of concern. Being a "good neighbor" means addressing neighbors (I am a 23rd St neighbor). I like what you are doing.

SAFE HARBOR
RYBOVICH

NEIGHBORHOOD IMPROVEMENT PLAN
COMMUNITY INPUT FORM

Name: DENISE BUBAN Date: 11/7/22

Property Address: 241 E 23 ST

X I am the owner of the property listed above

___ I am the current occupant at the property listed above

___ Please notify me by email of all public meetings associated with this project

Email: dcbubar@Yahoo.com

___ Yes, I support repaving 22nd Court ___ No, I do not support 22nd Court being repaved

___ Yes, I support installing a sidewalk and curbing on the north side of 22nd Court

___ No, I do not support installing a sidewalk and curbing on the north side of 22nd Court

___ Yes, I support building a new deck with seating for public use at the east end of 22nd Court

___ No, I do not support building a new deck with seating for public use at the east end of 22nd Court

Additional Comments: _____

_____

_____

_____

SAFE HARBOR
RYBOVICH

NEIGHBORHOOD IMPROVEMENT PLAN
COMMUNITY INPUT FORM

Name: Roberto Ayala Date: 11/7/22

Property Address: 153 E 23rd ST.

✓ I am the owner of the property listed above

____ I am the current occupant at the property listed above

____ Please notify me by email of all public meetings associated with this project

Email: ayalar21@gmail.com / ayalar21@gmail.com

____ Yes, I support repaving 22nd Court ____ No, I do not support 22nd Court being repaved

✓ Yes, I support installing a sidewalk and curbing on the north side of 22nd Court

____ No, I do not support installing a sidewalk and curbing on the north side of 22nd Court

✓ Yes, I support building a new deck with seating for public use at the east end of 22nd Court

____ No, I do not support building a new deck with seating for public use at the east end of 22nd Court

Additional Comments: _____

4200 N Flagler Drive | West Palm Beach, FL 33407 | 561.840.8190

SAFE HARBOR
RYBOVICH

NEIGHBORHOOD IMPROVEMENT PLAN
COMMUNITY INPUT FORM

Name: Robert Thomas Date: 11/7/22

Property Address: 154 East 22nd Court

✓ I am the owner of the property listed above

___ I am the current occupant at the property listed above

✓ Please notify me by email of all public meetings associated with this project

Email: Waterrider@gmail.com

✓ Yes, I support repaving 22nd Court ___ No, I do not support 22nd Court being repaved

___ Yes, I support installing a sidewalk and curbing on the north side of 22nd Court

✓ No, I do not support installing a sidewalk and curbing on the north side of 22nd Court

✓ Yes, I support building a new deck with seating for public use at the east end of 22nd Court

___ No, I do not support building a new deck with seating for public use at the east end of 22nd Court

Additional Comments: Install speed bumps on East 22nd. Court.

SAFE HARBOR
RYBOVICH

NEIGHBORHOOD IMPROVEMENT PLAN
COMMUNITY INPUT FORM

Name: Peter Fields Date: 11/7/22

Property Address: 25th & 22nd Ct

✓ I am the owner of the property listed above

✓ I am the current occupant at the property listed above

✓ Please notify me by email of all public meetings associated with this project

Email: PeterF@FalconAmerica.com

✓ Yes, I support repaving 22nd Court ____ No, I do not support 22nd Court being repaved

✓ Yes, I support installing a sidewalk and curbing on the north side of 22nd Court

____ No, I do not support installing a sidewalk and curbing on the north side of 22nd Court

____ Yes, I support building a new deck with seating for public use at the east end of 22nd Court

____ No, I do not support building a new deck with seating for public use at the east end of 22nd Court

Additional Comments: Yes overlook, no seating!

SAFE HARBOR
RYBOVICH

NEIGHBORHOOD IMPROVEMENT PLAN
COMMUNITY INPUT FORM

Name: Robin Fields Date: 11/7/22

Property Address: 256 E 22nd Ct Riviera Bch FL 33404

✓ I am the owner of the property listed above

✓ I am the current occupant at the property listed above

✓ Please notify me by email of all public meetings associated with this project

Email: robin@falconamerica.com

✓ Yes, I support repaving 22nd Court ___ No, I do not support 22nd Court being repaved

✓ Yes, I support installing a sidewalk and curbing on the north side of 22nd Court

___ No, I do not support installing a sidewalk and curbing on the north side of 22nd Court

___ Yes, I support building a new deck with seating for public use at the east end of 22nd Court

___ No, I do not support building a new deck with seating for public use at the east end of 22nd Court

Additional Comments: Supportive of a new outlook without seating.

SAFE HARBOR
RYBOVICH

NEIGHBORHOOD IMPROVEMENT PLAN
COMMUNITY INPUT FORM

Name: Jack Fields Date: 11/7/22

Property Address: 250 E 22nd Ct

___ I am the owner of the property listed above

✓ I am the current occupant at the property listed above

✓ Please notify me by email of all public meetings associated with this project

Email: jackfields3@icloud.com

✓ Yes, I support repaving 22nd Court ___ No, I do not support 22nd Court being repaved

✓ Yes, I support installing a sidewalk and curbing on the north side of 22nd Court

___ No, I do not support installing a sidewalk and curbing on the north side of 22nd Court

___ Yes, I support building a new deck with seating for public use at the east end of 22nd Court

✓ No, I do not support building a new deck with seating for public use at the east end of 22nd Court

Additional Comments: no seating – Yes deck

SAFE HARBOR
RYBOVICH

NEIGHBORHOOD IMPROVEMENT PLAN
COMMUNITY INPUT FORM

Name: Israel Stovall Date: 11-7-22

Property Address: 195 E. 23rd St

✓ I am the owner of the property listed above

___ I am the current occupant at the property listed above

✓ Please notify me by email of all public meetings associated with this project

Email: ~~qualiacosta~~ qualiacosta@gmail.com

___ Yes, I support repaving 22nd Court ___ No, I do not support 22nd Court being repaved

___ Yes, I support installing a sidewalk and curbing on the north side of 22nd Court

___ No, I do not support installing a sidewalk and curbing on the north side of 22nd Court

✓ Yes, I support building a new deck with seating for public use at the east end of 22nd Court

___ No, I do not support building a new deck with seating for public use at the east end of 22nd Court

Additional Comments: I would like more information on the plans and how does / would the redevelopment affect my property. Is or as looking at an 5 level garage built behind me?

SAFE HARBOR
RYBOVICH

NEIGHBORHOOD IMPROVEMENT PLAN
COMMUNITY INPUT FORM

Name: Paula Bohlander Date: 11-7-22

Property Address: 324 E 24th St - 2300 Lakeshore Dr - 301 E Blue Heron

✓ I am the owner of the property listed above

___ I am the current occupant at the property listed above

✓ Please notify me by email of all public meetings associated with this project

Email: oceandr@yahoo.com

✓ Yes, I support repaving 22nd Court ___ No, I do not support 22nd Court being repaved

✓ Yes, I support installing a sidewalk and curbing on the north side of 22nd Court

___ No, I do not support installing a sidewalk and curbing on the north side of 22nd Court

___ Yes, I support building a new deck with seating for public use at the east end of 22nd Court

✓ No, I do not support building a new deck with seating for public use at the east end of 22nd Court

Additional Comments: People should go to a public Park - Homeowners & Residents at the end of Each Street Do Not want a Public Park at the end of their Street!

SAFE HARBOR
RYBOVICH

NEIGHBORHOOD IMPROVEMENT PLAN
COMMUNITY INPUT FORM

Name: Helen Axelson Date: 11-07-22

Property Address: 165 E 23rd St

X I am the owner of the property listed above

___ I am the current occupant at the property listed above

X Please notify me by email of all public meetings associated with this project

Email: blueheronliving llc @ gmail. com

X Yes, I support repaving 22nd Court ___ No, I do not support 22nd Court being repaved

___ Yes, I support installing a sidewalk and curbing on the north side of 22nd Court

X No, I do not support installing a sidewalk and curbing on the north side of 22nd Court

X Yes, I support building a new deck with seating for public use at the east end of 22nd Court

___ No, I do not support building a new deck with seating for public use at the east end of 22nd Court

Additional Comments: _____

4200 N Flagler Drive | West Palm Beach, FL 33407 | 561.840.8190

SAFE HARBOR
RYBOVICH

NEIGHBORHOOD IMPROVEMENT PLAN
COMMUNITY INPUT FORM

Name: Erika Aaun Clarcy Date: 11-7-22

Property Address: 178 E 22nd Ct

____ I am the owner of the property listed above

____ I am the current occupant at the property listed above

__X__ Please notify me by email of all public meetings associated with this project

Email: erikaaunclarcy@gmail.com

__X__ Yes, I support repaving 22nd Court ____ No, I do not support 22nd Court being repaved

__X__ Yes, I support installing a sidewalk and curbing on the north side of 22nd Court

____ No, I do not support installing a sidewalk and curbing on the north side of 22nd Court

__X__ Yes, I support building a new deck with seating for public use at the east end of 22nd Court

____ No, I do not support building a new deck with seating for public use at the east end of 22nd Court

Additional Comments: _____

SAFE HARBOR
RYBOVICH

NEIGHBORHOOD IMPROVEMENT PLAN
COMMUNITY INPUT FORM

Name: William Beck Date: 11/07/2022

Property Address: 2300 Broadway

X I am the owner of the property listed above

___ I am the current occupant at the property listed above

X Please notify me by email of all public meetings associated with this project

Email: beckboats@gmail.com

X Yes, I support repaving 22nd Court ___ No, I do not support 22nd Court being repaved

X Yes, I support installing a sidewalk and curbing on the north side of 22nd Court

___ No, I do not support installing a sidewalk and curbing on the north side of 22nd Court

X Yes, I support building a new deck with seating for public use at the east end of 22nd Court

___ No, I do not support building a new deck with seating for public use at the east end of 22nd Court

Additional Comments: I was a part of the marine industry for 30 years here in Palm Beach County. I'm supportive of Safe Harbor's efforts to build out this marina property.

Sign-in Sheet

Date 2/11/2023

Name	Telephone Number	Email Address
Ricardo Deak	(561) 718-1729	DEAKLO DEAKSURVEYORS.com
Phil Ruotolo	239-691-2602	RRUOTOLO115@
RUTH RUOTOLO	239-691-2602	COMCAST.NET
SCOTT LEMING	860-857-8455	SCOTSAIL@GMAIL.COM
Joann Rawa	561 676 0268	clite2348@gmail.com
PAIGE PARKER	561 351 1959	PAIGE@PAICE.SURF
Teresa & Stephen Fleischer	561-758-5953	FLEISCHER.TERESA@GMAIL.COM
Theresa White	270 792 1741	Titansqirl09@gmail.com
Louise Browning	561-281-3129	brnidsgn3129@gmail.com
Glen Mock	816-896-3412	glenmock@gmail.com
Kris Mock	913-530-7594	krismock@gmail.com
William Julius	305-587-7980	SHAWARADAN@AOL.COM
Ana Lavigne	561-305 8582	avevane@bellsouth.net
Brandy Davis-Balsamo	619-419-8716	b.davisbalsamo@gmail.com
Travis Bethea	561 354 8389	TJB Fabrication@Gmail
Israel Stovall	561-480-8107	israelstovall@gmail.com
Margaret Shepherd	561-907-1528	Shepherd Margaret 2380gmail.com
Janice Jones	561-633-9107	NURSEJANICE150@aol.com

Copyright © 2017 eForms. All Rights Reserved.

SAFE HARBOR RYBOVICH

COMMUNITY OUTREACH MEETING SIGN-IN

February 13, 2023

	Name	Address	Email or Phone Number
1	Daniel Arce	9835 Lake Worth Rd #177 STE 16	561-267-0739 titanmarineinc@gmail.com
2	Alexandra Rodriguez-Arce	Lake Worth, FL 33467	561-275-0182
3	SCOTT LEMING	45 E 24TH ST	SCOTSAIL@GMAIL.COM
4	Ana Vergne	167 E 24th St	avergne@bellsouth.net
5	Joann Rauw	198 E 24th St.	elite2348@gmail.com
6	RICHARD DEAL	200 E. 23RD ST.	DEAL@DEALSURVEYORS.COM
7	Lulu K. Carlisle	250 W 23rd St, Riviera B. Fl. 33404	
8	Evika Clancy	178 E 22nd Ct Riviera Beach	561-542-5076 evikaannclancy@gmail.com
9	Charlotte Roundtree	42 Forestería Dr LP	561-301-7798 bhbdive@gmail.com
10	William Julius	248 E. 24TH ST R.B 33404	305-587-7980 SHAWABADAA@AOL.com
11	Jason Sewer	(323) 863 1403	JSewer@dronestrategicpartners.com
12	Kristofor Sewer	561 827 2294	Ksewer@droneStrategicpartners.com
13	Antuan Buntley	(561) 574-4234	Antuan Buntley Sr@gmail.com
14	Dylan Provenzano	191 E 24th St	dylan.provenzano@vikings.berry.edu
15			
16			

SAFE HARBOR RYBOVICH

COMMUNITY OUTREACH MEETING SIGN-IN

February 13, 2023

	Name	Address	Email or Phone Number
1	Cornelia Spates	371 W. 23rd St.	Corneliaspates@bellsouth.net
2	Theresa White	241 E 23rd St	Titansgirl09@gmail.com
3	Julie Botel	West 4 City of Riviera	R.Botel@rivierabeach.com
4	PETER HELMS	2305 LAKESHORE DR	phruda@swiremanelectric.net
5	Catherine Barker	1276 North Harbor Dr	info@surfercamp.com
6	Annetta Jenkins	CRA - Riviera Beach	ajenkins@rbcra.com
7	Minoka Nugent	CRA - Riviera Beach	MNugent@rbcra.com
8	Ezra Saffold	141 Riviera Dr. Riviera Bch	Ezra@allsiteinc.net
9	James Lehmann		
10	Scott McDermott		scott.mcdermott@pbcharterschools.org
11	Joseph Anderson	331 W 16th Way Riviera Beach	Jdandersoncoast@aol.com
12			
13			
14			
15			
16			

SAFE HARBOR RYBOVICH

COMMUNITY OUTREACH MEETING SIGN-IN

February 13, 2023

	Name	Address	Email or Phone Number
1	Kim Crawford	2428 Broadway Ave. Riviera	INFO@BuschCanvas.com
2	Helen Axelson	185 E 23rd St.	blueheronlivingllc@gmail.com
3	Margaret Shepherd	167 E 23rd R.B.	Shepherd margaret 23@gmail.com
4	Teresa Stephen Fleischer	230 E 23rd St	FLEISCHER.TERESA@gmail.com
5	Ken Burgess	401 w 32nd St RBFL 33404	thisisourhouse1@yahoo.com
6	Dr. Emma Banks	600 W. 28th St RBF	Emma.banks@pbahartersch
7	Peter Fields	256 E 22 Court	Peter@FalconAmerica.com
8	PAIGE PARKER	2305 LAKE SHORE DR	PAIGE@PAIGE.SURF
9	Javarious Jackson	561-293-6814	JGjackson@rivierabeach
10			
11			
12			
13			
14			
15			
16			

SAFE HARBOR
RYBOVICH

COMMUNITY INPUT FORM

Name: Jamie Lehman Date: 2-13-23

Email Address: ———

_____ I support Safe Harbor Marina moving into Riviera Beach

_____ I oppose Safe Harbor Marina moving into Riviera Beach

X I have the following questions I would like addressed. My email is listed above.

I believe there has been change in control of many Safe Harbor properties locally. Has the change of control been reported to the PBC property appraiser per FL. Statute? What about all of your properties across the country?

General Comments:

SAFE HARBOR
RYBOVICH

COMMUNITY INPUT FORM

Name: Joseph Anderson Date: 10/13/22

Email Address: jdandersonconst@aol.com

✓ I support Safe Harbor Marina moving into Riviera Beach

_____ I oppose Safe Harbor Marina moving into Riviera Beach

_____ I have the following questions I would like addressed. My email is listed above.

_____

_____

_____

General Comments: _____

_____

_____

_____

SAFE HARBOR
RYBOVICH

COMMUNITY INPUT FORM

Name: Paul R. Dorta Date: 2/13/23

Email Address: _____

✓ I support Safe Harbor Marina moving into Riviera Beach

_____ I oppose Safe Harbor Marina moving into Riviera Beach

_____ I have the following questions I would like addressed. My email is listed above.

_____

_____

_____

General Comments: This was A very informative Forum. I Think & Appreciate Safe Harbor keeping the traffic light on 20th St. Also no through traffic with trucks traveling on W. 20th St. Thank you also for not using any Toxic Material when cleaning the boats & ships! To save the environment and for the Health of the Citizens of Riviera Bch.

SAFE HARBOR
RYBOVICH

COMMUNITY INPUT FORM

Name: Javarious Jackson Date: _____

Email Address: _____

✓ I support Safe Harbor Marina moving into Riviera Beach

_____ I oppose Safe Harbor Marina moving into Riviera Beach

_____ I have the following questions I would like addressed. My email is listed above.

1) * Would love to see some form of public art element.
2) * Partnership w/ School District for marine related jobs.?
* Creating a pathway for students with careers in Marine/yacht/boating industry. Accounting, administrative,
1/1/3) Opportunity for RB residents to participate in construction of facility, of course those that are willing, able and qualified to perform

General Comments:
* Not a fan of building renderings. (More glass!!)
Initial

* Arts in Public Places feature. please.
* Construction Timeline??
* Ad-valorem impact for a project of this size?

SAFE HARBOR
RYBOVICH

COMMUNITY INPUT FORM

Name: KEN Burgess Date: 2/13/2023

Email Address: thisisourhouse1@yahoo.com

✓ I support Safe Harbor Marina moving into Riviera Beach

_____ I oppose Safe Harbor Marina moving into Riviera Beach

✓ I have the following questions I would like addressed. My email is listed above.

- The hands on buildout of the facility
- The responsibility of the maintenance of the facility after buildout.
- The percentage of subs that will be hired from Riviera Beach local pool (Subcontractors) to maintenance the newly built facility.
- Your philanthropy department would interest me. I have a newly form 501c(3) that I feel has innovative ways to address the multi-prong needs of our neighborhoods. Please, allow me to share with you guys the content of my 501c(3) "Movement" for your review and consideration of support.

General Comments:

- An how does this development help the City financially. Ad valorem taxes etc. etc.

SAFE HARBOR
RYBOVICH

COMMUNITY INPUT FORM

Name: Jason Sewer Date: 2/13/23

Email Address: JSewer@dronestrategicpartners.com

✓ I support Safe Harbor Marina moving into Riviera Beach

_____ I oppose Safe Harbor Marina moving into Riviera Beach

_____ I have the following questions I would like addressed. My email is listed above.

_____

_____

_____

General Comments: We are excited about the opportunity to be partners in this endeavor! Thank you!

_____

_____

_____

SAFE HARBOR
RYBOVICH

COMMUNITY INPUT FORM

Name: Peter Fields Date: Feb/13/2023

Email Address: Peter@falconamerica.com

X I support Safe Harbor Marina moving into Riviera Beach

_____ I oppose Safe Harbor Marina moving into Riviera Beach

_____ I have the following questions I would like addressed. My email is listed above.

water Drainage & public space at end of street
22 COURT

General Comments:

SAFE HARBOR
RYBOVICH

COMMUNITY INPUT FORM

Name: Evelyn Harris Clark Date: 2/13/2023

Email Address: Eheclarkbar@aol.com

_____ I support Safe Harbor Marina moving into Riviera Beach

_____ I oppose Safe Harbor Marina moving into Riviera Beach

_____ I have the following questions I would like addressed. My email is listed above.

Retail business hours, not acceptable answer to wait until "Kind of occupants" Please do not take residents questions for granted.

General Comments: _____

SAFE HARBOR
RYBOVICH

COMMUNITY INPUT FORM

Name: William Julius Date: 2-13-23

Email Address: SHAWABDAA@AOL.COM

✓ I support Safe Harbor Marina moving into Riviera Beach

_____ I oppose Safe Harbor Marina moving into Riviera Beach

_____ I have the following questions I would like addressed. My email is listed above.

_____

_____

_____

General Comments: _____

_____

_____

_____

4200 N Flagler Drive | West Palm Beach, FL 33407 | 561.840.8190

From:	Glen Mock
To:	Ana V
Cc:	elite2348@gmail.com; Curd, John; Golden, Keith; Johnson, Louis A.; McCray, Tanya; Clarke, Sedrick; Sommons, Malcolm; Sirmons, Clarence; Evans, Jonathan; Bailey, Terrence; Paige Parker; Travis Bethea; Hope-Davis, Marie; Felder, Ronnie; Lewis, Joshua
Subject:	Re: We've already reported the environmental noise
Date:	Tuesday, October 25, 2022 8:48:15 PM

Hi my name is Glen Mock, I'm the property owner at 118 E 24th St.
I'm reaching out to express my concerns and my opposition to the future expansion of the Safe Harbor Rybovich Campus.
My concerns are not with the campus itself but merely with the traffic access into the neighboring subdivision.
I understand that the expansion proposes to abandon the public right of way of Avenue B & C south of 22nd Court.
I also understand that there's to be a 5 story parking garage with an entrance and exit onto 22nd Court.
I believe this to be a bad design because it welcomes all the parking traffic directly into our residential subdivision.
Realizing that the Rybovich traffic is knowingly going to cut through our subdivision using avenue B & C to access Lakeshore north to Blue Heron or 24th St. west to Broadway.
I would think, given the campus will have 22nd, 21st & 20th streets with direct access to Broadway would be a more appropriate neighborhood friendly design.
A wall or a barrier of some sort, bordering the proposed campus along 22nd Court would provide a separation from a commercial faciality & our neighborhood.
The bottom line is that I have strong opposition to any increased traffic through our nice little neighborhood.

Glen Mock
118 E 24th St.
Riviera Beach Fl. 33404

On Tue, Oct 25, 2022 at 4:45 PM Ana V <avergne@bellsouth.net> wrote:

> Meeting with Bailey and he can correct if I misunderstood, Bill from E 24th was with me.
>
> 1. With adding D street going north and south, we do not have much of an argument for traffic congestion as D street will provide relief. I agree with him partly and happy he came up with this option. The width and keeping it as narrow as possible will prevent boats and semis from using the street for commercial use.
>
> 2. Height of 5 story parking garage was a concern.
>
> 3. Did not address environmental noise
>
> 4. He is engineering so sirmons must answer for code violations, Bailey did express it's a process.
>
> 5. Fire dept has been involved and continues to be.
>
> 6. Mr Bailey highly recommended we use q alert and report any violations as they escalate

to city manager and council if not addressed promptly.

7. Bailey also suggested reporting traffic violations to police. Chief Lewis had already set these wheels in motion, I know they are enforcing no parking zones. Chief Lewis assured me that if residents in lakeview park require police and or fire, they will get to us accordingly. He's increasing patrolling.

7. Mr Bailey said that the plans for Rybovich are to be looked upon as how Rybovich impacts our community, those plans are considered solely for them, they cannot be sandwiched in with other commercial businesses impact on our community. Not sure I agree with this statement.

8. Mr Bailey provided some support material of which I'm happy to let anyone see.

9. Bailey feels we are way early in the game in meeting with city, I totally disagree when rybovich is continuing their move into our backyard, but it's not his issue to address(agree he is not code)

Thank you Mr Bailey for your time and hope I verbalized accordingly.

Ana

Sent from my iPhone

> On Oct 25, 2022, at 5:16 PM, elite2348@gmail.com wrote:
>
> This is so out of line with quiet enjoyment of our own private homes.
>
> Joann Rawn
> 561 676-0268
> 198 E 24th Street
>
>> On Oct 25, 2022, at 2:12 PM, Ana V <avergne@bellsouth.net> wrote:
>>
>> I think the residents of lakeview park will need to come to city managers office with news media in effort to get a community meeting and get explanation as to why this continues to be allowed!
>>
>> I've heard crickets
>>
>> 5 pods and 1 machine on this street alone!
>>
>> The city administration must answer to the residents of this city!
>>
>> Mayor felder assured me he would be driving through the community today, let's see if we can get help from him.
>>
>> At this point and at the rate of speed Rybovich is pushing through, I say we bring

attention to the selective enforcement that has plagued our city for years.
>>
>> This would never be allowed in singer island, never!
>>
>>
>>
>>
>>
>>
>>
>>
>> Sent from my iPhone
>>
>>>> On Oct 24, 2022, at 3:52 PM, Ana V <avergne@bellsouth.net> wrote:
>>>
>>>
>>> Do something about it!
>>>
>>> Please
>>>
>>>
>>> Sent from my iPhone

EXTERNAL SENDER
This email originated outside of the organization. Please do not click links or open attachments unless you recognize the sender and know the content is safe.

From:	Ana V
To:	Evans, Jonathan; Curd, John; McCray, Tanya; Sirmons, Clarence; Bailey, Terrence; Jon Moore South District Dep; Jason Andreotta; Miller-Anderson, Kashamba; Golden, Keith; Curd, John; Jason Andreotta
Cc:	dean@deansurveyors.com
Subject:	Jon I need help URGENT
Date:	Monday, February 20, 2023 8:05:47 AM

Lakeview Park is dealing with 2 issues that is impacting the health and well-being of our community.

1. Environmental Noise
2. Poor Air quality pollution, how do we ensure with your help that air quality permits are being given and standards are being followed.

Jon, I may need you to visit my community.

Do you have an emergency contact for us to call when the chemical are so thick in the air that some are experiencing headaches, dizziness, nausea, vomiting, burning or nose and throat

Please advise!

https://floridadep.gov/air/permitting-compliance/content/air-permit-review-section

Sent from my iPhone

EXTERNAL SENDER
This email originated outside of the organization. Please do not click links or open attachments unless you recognize the sender and know the content is safe.

From: AT&T Yahoo Mail
To: Sirmons, Clarence; Evans, Jonathan
Subject: Safe Harbor Marina Expansion
Date: Tuesday, February 28, 2023 1:53:38 PM

City of Riviera Beach
600 West Blue Heron Boulevard
Riviera Beach Florida 33404

Attn: Clarence Simmons. Director of Development

Re: Safe Harbor - US1//SR5/Broadway - Rybovich Marina Expansion
Rezoning Submittal

Dear Sir:

We are the owners of Palm Beach County Parcel 40-43-42-28-11-008-082 and object to reference application dated February 14, 2023. Given the notarized AGENT AUTHORIZATION FORM of February 12th, 2023, We request you to terminate the application and refer the documentation to both the City of Riviera Beach Police Department and the 15th District State's Attorney for criminal prosecution.

We suggest although with prior owners the RBY, LLC corporation represented in the FORM was the same corporation that attempted to obtain a long term lease of the City's Marina circa June 2005. As a result they are prior violators.

Sincerely,
Michael Mahoney and Nora Mahoney
Dee's T-Shirts
2120 Broadway. Riviera Beach Florida 33404
(561)842-5800

EXTERNAL SENDER
This email originated outside of the organization. Please do not click links or open attachments unless you recognize the sender and know the content is safe.

Lakeview Park Neighborhood Outreach Meeting

April 15, 2023 3:00 PM

Attendees:

Peter and Robin Fields, 256 E 22nd Ct, 561-301-7438
Philip Ruatolo, 196 E 22nd Ct, 239-691-2603
William Bruckner, 2200 Broadway, 561-723-8547
Kim Sessa, 2200 Broadway, 561-723-8547
Collin/Luise Macht, 208 E 22nd Ct, 561-562-1787
Johnathan/Michelle Inman, 224- E 22nd Ct, 239-738-3472
John Strauss, 2250 Broadway, 561-722-4014
Michael Hutchings, 186 E 22nd Ct., 561-283-5283
Ana Vergne, 167 E 24th St, 561-305-8582
Brandi Davis Balsamo, 217 E 23rd St, 619-419-8716
Ronda/Mike Patterson, 164 E 22nd Ct, 561-459-0905
Neil Mahoney, 12940 N Shore Dr, Palm Beach Gardens, 847-323-1434
Mike Mahoney, 2120 Broadway, (Dee's Tee's), 561-308-5786
Nora Mahoney, 2120 Broadway, 561-842-5800
John Wagner, 248 E 23rd St, 203-556-3626
Travis Bethea, 37 E 24th St, 501-354-8389
Alex Hess, 31 E 24th St, 267-218-3619
Janice Jones, 150 E 23rd St, 561-633-9107
W. Scott Smith, 120 E 23rd St, 561-351-9354
Margaret Shepherd

The proposed site plan was reviewed.

- Ana Vergne and Travis Bethea voiced concerns regarding traffic in the neighborhood.
- Ana Vergne complained about flooding in the neighborhood.
- Ana Vergne complained about odors in the neighborhood.
- Many complaints voiced concerning lack of attention and funding for infrastructure from the City.
- Attendees were not happy about an observation deck attracting homeless.
- Most attendees voiced general support for the Safe Harbor proposed plan.
- Many attendees asked Ana Vergne not to speak on behalf of the neighborhood.

Meeting ended at 4:15 PM.

Public Notice

City of Riviera Beach Planning and Zoning Division
600 W. Blue Heron Blvd.
Riviera Beach, FL 33404
Phone: (561) 845-4060
Email: comdev@rivierabch.com

AFFIDAVIT OF INSTALLATION OF NOTIFICATION SIGNS

INSTRUCTIONS: To be completed by individual submitting application (property owner, petitioner with consent, or authorized agent).

Application Number and Name:

Date(s) of Public Hearing(s):

STATEMENT OF COMPLETENESS AND ACCURACY

In accordance with the requirements of Section 31-4 Public Notification Signs, of the Code of Ordinances of Riviera Beach, Tim Sargent (Name of Person), hereby certify that 10 (Number of Signs) Notification Signs, herein called Signs, for the above Application Number and Name have been posted/installed on the subject property under review for said Application located at: 255 E 22nd Ct, Riviera Beach, FL 33404 (Address/ Location of Signs).

The Signs have been produced and meet the specifications of the requirements of the City of Riviera Beach, Zoning Division's Technical Manual. Posting/Installation of the Signs was completed on 10 May 2023 (Date of Posting/ Installation) which was no less than fifteen (15) days prior to the first public hearing listed above. Said signs have been posted in a manner which provides an unobstructed view and which allows for clear reading from the street(s) along 22nd st, 22nd Ct Ave B, Ave C (Insert Street Names).

I will ensure that the Signs remain on the subject property, until the application has had a Final Development Order by the Hearing Officer, Planning and Zoning Board, or City Council or has been withdrawn by the Applicant. The Signs, in no case, shall remain on the subject property more than five (5) days following the Final Board Action. I understand that any knowingly false, inaccurate, or incomplete information provided by me will result in the denial, revocation, postponement, or administrative withdrawal of this application request.

Supportive Documents: Attached hereto as Attachment "A" is a complete list of all photographs of posted signs along the subject property.

Check (X) one: I am the [X] property owner [ ] agent [ ] other _____.

Tim Sargent — (Signature)

(Name - type, stamp or print clearly)

Safe Harbor Marinas — 14785 PRESTON ROAD, SUITE 975, DALLAS, TX 75254

(Name of Firm) (Address, City, State, Zip)

NOTARY PUBLIC INFORMATION:

STATE OF FLORIDA
COUNTY OF PALM BEACH

The foregoing instrument was acknowledged before me this 10th day of May, 2023 by Tim Sargent. He/she is personally known to me or has produced _____ (Type of identification) as identification and did/did not take an oath (circle correct response).

SHARON JOHNSON
MY COMMISSION # GG 308604
EXPIRES: June 6, 2023
Bonded Thru Notary Public Underwriters

(Name - type, stamp or print clearly) (Signature)

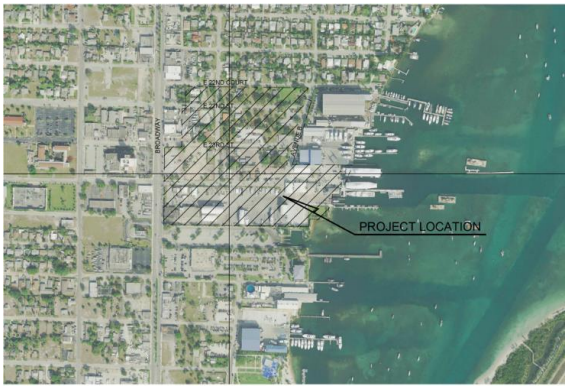
My Commission Expires on: _____

NOTARY'S SEAL OR STAMP

Attachment A: Photographs of signs

NOTICE FOR PUBLIC HEARING *AMENDED

REGARDING THE REDEVELOPMENT OF THE SAFE HARBOR RYBOVICH MARINA FACILITIES LOCATED AT 2010 AVENUE B, RIVIERA BEACH, FL 33404.



Applicant: Safe Harbor Marinas

Proposal: The Safe Harbor Rybovich campus expansion includes the area from E 21st Street North to E 22nd Court, between Broadway Street in the West and Avenue B in the East. The proposed site plan to expand the high-quality super-yacht repair facilities is designed to include additional marine service areas, maintenance buildings, a parking garage, and office/contractor buildings.

Along Broadway Street, the office/contractor buildings reflect its commercial nature, with taller heights and increased setbacks and streetscapes. To the north, along E 22nd Court, care was taken to provide opaque screening and pedestrian oriented sidewalks, as to blend the transition to the residential neighborhood to the North. Great effort was put into reducing the overall height and scale of the proposed campus, as to reduce any potential concerns of over development and increased intensity.

Meeting Details:
City of Riviera Beach Planning and Zoning Board
Thursday, March 23, 2023
Meeting starts at 6:30PM
Riviera Beach Marina Event Center – 190 E 13th Street, Riviera Beach, FL 33404
For More Information, the City Development Services Department: (561)845-4060

Contact: Julie Bulleit – jbulleit@shmarinas.com, (561) 840-8190

SAFE
– LAUDERDALE

NOTICE FOR PUBL

REGARDING THE REDEVELOPMENT
FACILITIES LOCATED AT 2010 A

Applicant: Safe Harbor Marinas

Proposal: The Safe Harbor Rybovich campus expar
Court, between Broadway Street in the West and A
high-quality super-yacht repair facilities is designec
buildings, a parking garage, and office/contractor b

Along Broadway Street, the office/contractor build
increased setbacks and streetscapes. To the north,
screening and pedestrian oriented sidewalks, as to
the North. Great effort was put into reducing the c
reduce any potential concerns of over developmen

Meeting Details:
City of Riviera Beach Planning and Zoning Board
Thursday, March 23, 2023
Meeting starts at 6:30PM
Riviera Beach Marina Event Center – 190 E 13th Stre
For More Information, the City Development Servic

Contact: Julie Bulleit – jbulleit@shmarinas.com, (561) 840-8190

2029 SW 20th St. | Fort Lauderdale, FL 33315 | 954.713.0333

US POSTAGE
quadient
FIRST-CLASS MAIL
IMI
$000.60 0
03/07/2023 ZIP 33407
043M30217651

NIXIE 331 DE 1 0003/12/23
RETURN TO SENDER
VACANT
UNABLE TO FORWARD
BC: 33407422100 *1106-00316-03-41

Mr. Jonathan E. Evans
City Manager's office
1418 W 15th St 2nd Floor
Riviera Beach, FL 33404

Safe Harbor Rybovich
4200 N Flagler Drive
West Palm Beach, FL 33407

Julie Bulleit

LOCALiQ
FLORIDA

Order Confirmation

Not an Invoice

Account Number:	731063
Customer Name:	Riviera Beach, City Of
Customer Address:	Riviera Beach, City Of 600 W Blue Heron BLVD Riviera Beach FL 33404-4311
Contact Name:	Riviera Beach, City Of
Contact Phone:	5618454000
Contact Email:	
PO Number:	Hearing 3/23

Date:	03/15/2023
Order Number:	8584231
Prepayment Amount:	$ 0.00

Column Count:	2.0000
Line Count:	103.0000
Height in Inches:	0.0000

Print

Product	#Insertions	Start - End	Category
WPB Palm Beach Post	1	03/19/2023 - 03/19/2023	Govt Bids & Proposals
WPB palmbeachpost.com	1	03/19/2023 - 03/19/2023	Govt Bids & Proposals

Total Order Confirmation	**$636.54**

Ad Preview

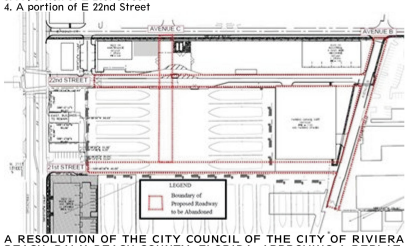
PUBLIC HEARING NOTICE
PLANNING AND ZONING BOARD
CITY OF RIVIERA BEACH, PALM BEACH COUNTY, FLORIDA

The Planning and Zoning Board of the City of Riviera Beach, Palm Beach County, Florida will conduct a Public Hearing on Thursday, March 23, 2023, at 6:30 PM, or soon thereafter, and from time to time thereafter as necessary, at the Riviera Beach Event Center located at 190 E 13th Street, Riviera Beach, FL 33404, to consider the below:

AN ORDINANCE OF THE CITY COUNCIL OF RIVIERA BEACH, PALM BEACH COUNTY, FLORIDA, APPROVING A REQUEST FROM SAFE HARBOR MARINAS REQUESTING AN ABANDONMENT (AB-22-0002) OF THE FOLLOWING RIGHT-OF-WAY SEGMENTS: FIRST, A PORTION OF AVENUE B; SECOND, A PORTION OF AVENUE C; THIRD, A PORTION OF EAST 21ST STREET; AND FOURTH, A PORTION OF EAST 22ND STREET, IN RIVIERA BEACH, FLORIDA ("ATTACHMENT A"); AND PROVIDING FOR AN EFFECTIVE DATE AND FOR OTHER PURPOSES.

ATTACHMENT "A"

1. A portion of Avenue B
2. A portion of Avenue C
3. A portion of E 21st Street
4. A portion of E 22nd Street



A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF RIVIERA BEACH, PALM BEACH COUNTY, FLORIDA, APPROVING A REPLAT, FROM SAFE HARBOR MARINAS; TO REPLAT (PA-23-0002) +/-23.99 ACRES OF CONTIGUOUS LOTS OF RECORD INTO A SINGLE PARCEL OF PROPERTY TOTALING APPROXIMATELY +/- 23.99 ACRES (+/- 949,000 SQUARE FEET) OF LAND AREA, REGARDING PROPERTIES LOCATED FROM EAST 21ST STREET NORTH TO EAST 22ND COURT, BETWEEN BROADWAY STREET ON THE WEST AND AVENUE B ON THE EAST; AND PROVIDING FOR AN EFFECTIVE DATE AND FOR OTHER PURPOSES.

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF RIVIERA BEACH, PALM BEACH COUNTY, FLORIDA, APPROVING AN APPLICATION (ZA-22-0002) FROM SAFE HARBOR MARINAS REQUESTING A ZONING MAP AMENDMENT FROM A "DR" DOWNTOWN RESIDENTIAL DISTRICT DESIGNATION TO A "DM" DOWNTOWN MARINE DISTRICT DESIGNATION AND A SMALL PORTION OF DOWNTOWN CORE "DC" TO DOWNTOWN MARINE "DM"; AND PROVIDING FOR AN EFFECTIVE DATE AND FOR OTHER PURPOSES.

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF RIVIERA BEACH, PALM BEACH COUNTY, FLORIDA, APPROVING A SMALL-SCALE FUTURE LAND USE (FLU) MAP AMENDMENT TO THE CITY OF RIVIERA BEACH COMPREHENSIVE PLAN APPROVING AN APPLICATION (LU-23-0001) FROM SAFE HARBOR MARINAS REQUESTING A LAND USE DESIGNATION FROM DOWNTOWN MIXED USE (DMU) TO A LAND USE DESIGNATION OF WORKING WATERFRONT (WW); AND PROVIDING FOR AN EFFECTIVE DATE AND FOR OTHER PURPOSES.

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF RIVIERA BEACH, PALM BEACH COUNTY, FLORIDA, APPROVING A SITE PLAN (SP-22-0014) REQUEST FROM SAFE HARBOR MARINAS; TO TARGET THE AREA FROM EAST 21ST STREET NORTH TO EAST 22ND COURT, BETEEN BROADWAY STREET ON THE WEST AND AVENUE B ON THE EAST; THESE TWO BLOCKS WILL BE COMBINED INTO AN OVERALL SAFE HARBOR/RYBOVICH CAMPUS SITE PLAN; INCLUDE ADDITIONAL MARINE SERVICE AREAS, MAINTENANCE BUILDINGS, A PARKING GARAGE, AND CONTRACTOR BUILDINGS;; ON APPROXIMATELY +/-23.99 ACRES OF LAND (+/- 949,000 SQAURE FEET); GENERALLY LOCATED AT 1900 BROADWAY STREET; PROVIDING FOR CONDITIONS OF APPROVAL, PROVIDING FOR AN EFFECTIVE DATE AND FOR OTHER PURPOSES.

Background material is available for review in its entirety in the Development Services Department between the hours of 8:00 AM and 5:00 PM, Monday through Friday, except holidays. A copy of the proposed ordinance can also be reviewed on the City's webpage at www.rivierabch.com/AUR.

PLEASE TAKE NOTICE AND BE ADVISED, that if any interested person desires to appeal any decision made by the Council with respect to any matter considered at the meetings, such interested person, at their own expense, will need a record of the proceedings, and for such purpose may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based (F.S. 286.015).

In accordance with the Americans with Disabilities Act of 1990, persons needing special accommodations to participate in the proceedings should contact the City Manager's Office or the Clerk's Office at 561-845-4010 no later than 48 hours prior to the proceedings. If hearing impaired, telephone the Florida Relay Services 1-800-955-8771 (TDD) or 1-800-955-8770 (Voice) for assistance.

Mar. 19, 2023 #8584231

LOCALiQ
FLORIDA

Order Confirmation

Not an Invoice

Account Number:	731063
Customer Name:	Riviera Beach, City Of
Customer Address:	Riviera Beach, City Of 600 W Blue Heron BLVD Riviera Beach FL 33404-4311
Contact Name:	Riviera Beach, City Of
Contact Phone:	5618454000
Contact Email:	
PO Number:	

Date:	03/15/2023
Order Number:	8584205
Prepayment Amount:	$ 0.00

Column Count:	1.0000
Line Count:	55.0000
Height in Inches:	0.0000

Print

Product	#Insertions	Start - End	Category
WPB Palm Beach Post	1	03/20/2023 - 03/20/2023	Public Notices
WPB palmbeachpost.com	1	03/20/2023 - 03/20/2023	Public Notices

Total Order Confirmation	**$169.95**

Ad Preview

PUBLIC HEARING NOTICE
PLANNING AND ZONING BOARD

CITY OF RIVIERA BEACH, PALM BEACH COUNTY, FLORIDA

The Planning and Zoning Board of the City of Riviera Beach, Palm Beach County, Florida will conduct a Public Hearing on Thursday, March 23, 2023, at 6:30 PM, or soon thereafter, and from time to time thereafter as necessary, at the Riviera Beach Event Center located at 190 E 13th Street, Riviera Beach, FL 33404, to consider the below:

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF RIVIERA BEACH, PALM BEACH COUNTY, FLORIDA, AMENDING CITY CODE OF ORDINANCES CHAPTER 31, ZONING, ARTICLE VIII. – FLORIDA FRIENDLY LANDSCAPE REGULATIONS, SECTION 31-609, DEVELOPMENT LANDSCAPING REQUIREMENTS, IN ORDER TO ALLOW WORKING WATERFRONT PROJECTS WITHIN THE DOWNTOWN MARINE ZONING DISTRICT AND PROJECTS WITHIN THE PORT FUTURE LAND USE DISTRICT TO REQUEST TO PROVIDE A CONTRIBUTION TO PAY IN LIEU OF MEETING LANDSCAPING REQUIREMENTS FOR CONSIDERATION BY CITY COUNCIL AT TIME OF SITE PLAN CONSIDERATION, WITH ASSOCIATED REGULATIONS FOR CONTRIBUTION CALCULATION AND RESERVE FUNDS ALLOCATION FOR FUTURE LANDSCAPING EXPENDITURES; PROVIDING FOR APPLICABILITY, CONFLICTS, SEVERABILITY AND CODIFICATION; AND PROVIDING FOR AN EFFECTIVE DATE

March 20, 2023 #8584205

PZB Meeting
March 23, 2023
Public Comments

Planning and Zoning Board Meeting
March 23, 2023
Public Comment Card - Safe Harbor Marinas

Comment Card Number	PDF Link (double click to open)	Name	Date	Address	Email	Phone Number	Agenda Item	Applicable	Comment into the record:	Staff Notes on the back of the comment card from the public
1		Kim Sessa	3/23/23	A Locksmith Shop, inc, 2200 Broadway, RB	alocksmithshopinc.com	(561)-845-2121	AB-22-002	I do not support this item	"PCN 56-43-42-28-11-003-0180 was erroneously included on the application by Safe Harbor to be owned by Safe Harbor. It is not. It is owned by Kim Sessa"	D- street is not sufficient. 25th street is not good its flood commitment in writing that fees will go to NH"
2		Julie Logsdon	5/23/23	320/329/321 E 25th St	julieeaparis@hotmail.com	(561)-701-0910	A	Not Answered	"I would like the option to speak depending on meeting discussion"	Did not speak on the mic
3		Bonnie Larson	3/23/23	N/A	N/A	N/A	N/A	Not Answered	"Safe Harbor A-F"	Did not speak
4		Peter Hruda	3/23/23	2305 Lake Shore Dr	phruda@wiremove.net	(561)-601-3332	N/A	I do not support this item	N/A	D- street cutout is insufficient
5		Bill Julieus	3/23/23	248 E24th St	N/A	N/A	A	Not Answered	"Road Abandonment (traffic)"	Avenue D is Insufficient for exiting the neighborhood. Will be stuck in Rybovich exit traffic
6		Fame Lozman	3/23/23	Singer Island	N/A	N/A	VIII	I do support this item	N/A	Worked with the city to preserve marina
7		Nathan E Nason	3/23/23	3001 PGA Bvd Ste 305 PBG Fla	nnason@nasonyeager.com	(561)-686-3307	VIII A	Not Answered	N/A	-Viking Rep objects to abandonment * has not been adequately considered
8		Nora Mahoney	3/23/23	2120 Broadway RB Fl 33404	deestees@bellsouth.net	(561)-842-5800	A	I do not support this item	N/A	-Fix the PCN issue (Dee's Tees), Flooding, Air Quality
9		Viktoria	3/23/23	232 E 22nd st	N/A	(561)- 906-7727	N/A	Not Answered	N/A	Listen to Community
10		Albert Case	3/23/23	38 East 22nd Court	wpbsadieblue@yahoo.com	(305)-303-2792	N/A	Not Answered	"Property @ 138 East 22nd Court Riviera Beach, Drug House"	-Boats killing his grass, -Opposed to getting rid of Avenue C
11		Philip Ruotolo	3/23/23	196 E 22nd ct R.B.	N/A	N/A	N/A	Not Answered	N/A	-Hears boats being repaired now, does not want sidewalk on N side of the street on 22nd court, does not want to look at wall
12		Daniel Gilbert	3/23/23	2100 Broadway	fonnzy123@live.com	(561)-844-2576	N/A	Not Answered	"We own the building and the property at the corner of 21st 2100 boradway, and were here for the same reason as A Locksmith on 22nd st, we did not sell!!!"	Seashell business owner, -Did not sell his property to Rybovich
13		Travis Bethen	4/23/23	37 East 211 st Riviera Beach	tjbfabrication@gmail.com	(561)-354-8381	A,B,C,D,E,F,G,H,I	I do not support this item	N/A	drainage + traffic concerns, MSD reports
14		Brandy Davis Balsamo	3/23/23	217 e 23rd st, Riviera Beach, Fl	Bdavidbalsamo@gmail.com	(619)-419-8216	A	I do not support this item	N/A	D street insufficient, dont want to fight with garage exit traffic, what happens in a hurricane
15		Ana Vergne	3/23/23	167 E 24th St	N/A	(561)-305-8582	A	Not Answered	N/A	Alternate traffic plan, City should protect residents
16		Scott Leming	3/23/23	45 E 24th	scottsail@gamil.com	(860)-857-8455	A abandonment	I do not support this item	"I am concerned about traffic trough the neighborhood and ability to turn south onto boradway"	Cars cut through neighborhood, fuel storage tanks, impact fee should fix drainage
17		Glen Mock	3/23/23	118 Rd 24th st, Riviera Beach, Fl 33404	glenmock1@gmail.com	(816)-896-3412	A abandonment	Not Answered	N/A	Concern: Traffic being diverted into neighborhood, D street insufficient
18		Gerrad M Ward	3/23/23	2135 Broadway RB	wardgm@gate.net	(561)-863-1215	VIII A	Not Answered	N/A	Fradulent ownership affidavit, access issues D Street etc.
19		Gregg Moree	N/A	21 st Ave ower	N/A	N/A	A Rybovich	Not Answered	"Grand mothe 21st 117 historical society house Ro"	N/A
20		Richard Dean	3/23/23	200 E 23rd St Riviera Beach	deanc.deansurveyors.com	(561)-625-8748	VIII A	Not Answered	N/A	Where are the restaurants, Where is drainage?, $3 million for abandonment + impact fees should go, above
21		John Stephen fleischen	3/23/23	232 E 23rd St Riviera Beach, Fl 33404	sfmia2@gmail.com	(561)-446-3160	A abandonment	I do not support this item	N/A	N/A
22		Theresa White	3/23/23	241 E 23rd st	titansgirl09@gmail.com	(270)-792-1741	N/A	Not Answered	"Safe Harbor took the stoplight @ E21st which provides entry into the "campus", they now want to use the stoplight @ E 22nd for entrance and exit from the "campus" there by increasing to a significant degree traffic in the adjoining neighborhood. I propose the use their light @ E 21st as not only a courtesy but as a safety measure. WHY do they require 2 lights"	N/A
23		Manny Xavier	3/23/23	E 25th St	N/A	N/A	A	I do not support this item	N/A	Did not speak
24		Mike Mahoney	3/23/23	2120 Broadway	deestees@bellsouth.net	(561)-842-5800	A	Not Answered	N/A	PCN was used inappropiately for him and 3 others
25		Michael Mahoney	3/23/23	2120 Broadway R.B.	deestees@bellsouth.net	(561)-842-5800	Public Commont	Not Answered	N/A	Wants prior notice for next meetin
26		Fame Lozman	2/23/23	Singer Island	N/A	N/A	General Public Comment	Not Answered	N/A	"Viking is Evil"
27		Gerrad M Ward	3/23/23	2135 Broadway	wardgm@gate.net	(561)-863-1215	VIII C Zoning (General Comment)	I do not support this item	N/A	Recommend workshop as next step

Planning and Zoning Board Meeting
Public Comment Card

2

ame: Kim Sessa Date: 3/23/23

ddress: A Locksmith Shop, Inc 2200 Broadway, RB

elephone Number: 561-845-2121 Email: alocksmithshopinc.com

_] I would like to speak. Agenda Item: AB-22-0002

_] I do not wish to speak but would like the following comments read into the record:

PCN 56-43-42-28-11-003-0180 was erroneously included on the application by Safe Harbor to be owned by Safe Harbor. It is not. It is owned by Kim Sessa.

pplicable: [_] I support this item. [X] I do not support this item

Please complete this card and provide to City staff. The Chairperson will call your name when it is time for you to speak.

Members of the public are encouraged to actively participate during Planning and Zoning Board Meeting and may do so by speaking on items or by providing comments in writing to be read into the record. Mos often three minutes are provided to each individual on each action item, however, discussion time allocate may be modified from time to time.

If you wish to address the Board, please complete the reverse side of this card and provide it to City staff Please be mindful that this card must be submitted to City staff before the item you wish to comment on i open for discussion. When your name is called by the Chairperson to speak, please state your name and address for the record before beginning your comments. Comments should be pertinent to and associated with the specific agenda item being discussed.

Any person making impertinent or slanderous remarks or acting in a disruptive manner may be barred from further participation. The Chairperson may advise that person to cease their discussion and may also ask that an individual be removed from the meeting. If you have any questions, please ask City staff. Thank you!

1

- D-street cutout is not sufficient
- 25th street is not good its flood
- commitment in writing that fees will go to NH for streets, etc

Planning and Zoning Board Meeting
Public Comment Card

2

Name: Julie Logsdon Date: 5/23/23

Address: 320/329/321 E 25th St.

Telephone Number: 561-701-0910 Email: Julies1paris@hotmail.com

[_] I would like to speak. Agenda Item: A

I would like the option to speak depending on Meeting Discussion

[_] I do not wish to speak but would like the following comments read into the record:

If applicable: [_] I support this item. [_] I do not support this item

and provide to City staff. The Chairperson will call your name when it is time for you to speak.

Did not speak on the mic

(2)

Planning and Zoning Board Meeting
Public Comment Card

3

Name: DONNIE LARSON Date: 3/23/23

Address:

Telephone Number: Email:

[ ] I would like to speak. Agenda Item:

[ ] I do not wish to speak but would like the following comments read into the record:

Safe Harbor
A-F

If applicable: [_] I support this item. [_] I do not support this item

Please complete this card and provide to City staff. The Chairperson will call your name when it is time for you to speak.

Did not speak

(3)

Planning and Zoning Board Meeting 4
Public Comment Card

Name: PETER HAUDA Date: 3/23/23

Address: 2305 LAKES STONES DR

Telephone Number: 561 601-3332 Email: phrycla@wiremarketing.net

[X] I would like to speak. Agenda Item: _____

[ ] I do not wish to speak but would like the following comments read into the record:

_____

_____

_____

_____

If applicable: [ ] I support this item. [X] I do not support this item

Please complete this card and provide to City staff. The Chairperson will call your name when it is time for you to speak.

Members of the public are encouraged to actively participate during Planning and Zoning Board Meetin and may do so by speaking on items or by providing comments in writing to be read into the record. Mo often three minutes are provided to each individual on each action item, however, discussion time allocate may be modified from time to time.

If you wish to address the Board, please complete the reverse side of this card and provide it to City staf Please be mindful that this card must be submitted to City staff before the item you wish to comment on open for discussion. When your name is called by the Chairperson to speak, please state your name an address for the record before beginning your comments. Comments should be pertinent to and associate with the specific agenda item being discussed.

Any person making impertinent or slanderous remarks or acting in a disruptive manner may be barred fror further participation. The Chairperson may advise that person to cease their discussion and may also as that an individual be removed from the meeting. If you have any questions, please ask City staff. Thank you

D-street cutout is insufficient

(4)

Planning and Zoning Board Meeting

Public Comment Card

5

Name: Bill Jules

Date:

Address: 248 E 24th St

Telephone Number:

Email:

[ ] I would like to speak. Agenda Item: A Road Abandonment Traffic

[ ] I do not wish to speak but would like the following comments read into the record:

If applicable: [ ] I support this item. [ ] I do not support this item

Please complete this card and provide to City staff. The Chairperson will call your name when it is time for you to speak.

Members of the public are encouraged to actively participate during Planning and Zoning Board Meeti and may do so by speaking on items or by providing comments in writing to be read into the record. M often three minutes are provided to each individual on each action item, however, discussion time alloca may be modified from time to time.

If you wish to address the Board, please complete the reverse side of this card and provide it to City st Please be mindful that this card must be submitted to City staff before the item you wish to comment on open for discussion. When your name is called by the Chairperson to speak, please state your name a address for the record before beginning your comments. Comments should be pertinent to and associat with the specific agenda item being discussed.

Any person making impertinent or slanderous remarks or acting in a disruptive manner may be barred fro further participation. The Chairperson may advise that person to cease their discussion and may also a that an individual be removed from the meeting. If you have any questions, please ask City staff. Thank yo

Avenue D is insufficient for exiting the neighborhood. will be stuck in Rybovich exit traffic

5

Planning and Zoning Board Meeting

Public Comment Card

6

Name: FANE LOZMAN

Date: 3/23/23

Address: Singer Island

Telephone Number: Email:

[✓] I would like to speak. Agenda Item: VIII → A. [illegible]

[ ] I do not wish to speak but would like the following comments read into the record:

If applicable: [X] I support this item. [ ] I do not support this item

Please complete this card and provide to City staff. The Chairperson will call your name when it is time for you to speak.

Members of the public are encouraged to actively participate during Planning and Zoning Board Meeti and may do so by speaking on items or by providing comments in writing to be read into the record. M often three minutes are provided to each individual on each action item, however, discussion time alloca may be modified from time to time.

If you wish to address the Board, please complete the reverse side of this card and provide it to City st Please be mindful that this card must be submitted to City staff before the item you wish to comment on open for discussion. When your name is called by the Chairperson to speak, please state your name a address for the record before beginning your comments. Comments should be pertinent to and associat with the specific agenda item being discussed.

Any person making impertinent or slanderous remarks or acting in a disruptive manner may be barred fro further participation. The Chairperson may advise that person to cease their discussion and may also a that an individual be removed from the meeting. If you have any questions, please ask City staff. Thank yo

worked with the City to preserve marina

6

Planning and Zoning Board Meeting

Public Comment Card

7

Name: Nathan E Nason Date: 3/23/23

Address: 3001 PGA Blvd Ste 305 PBG Fla

Telephone Number: (561) 686-3307 Email: nnason@nasonyeager.com

[X] I would like to speak. Agenda Item: VIII A

[_] I do not wish to speak but would like the following comments read into the record:

If applicable: [_] I support this item. [_] I do not support this item

Please complete this card and provide to City staff. The Chairperson will call your name when it is time for you to speak.

Members of the public are encouraged to actively participate during Planning and Zoning Board Meeti and may do so by speaking on items or by providing comments in writing to be read into the record. M often three minutes are provided to each individual on each action item, however, discussion time alloca may be modified from time to time.

If you wish to address the Board, please complete the reverse side of this card and provide it to City st Please be mindful that this card must be submitted to City staff before the item you wish to comment on open for discussion. When your name is called by the Chairperson to speak, please state your name a address for the record before beginning your comments. Comments should be pertinent to and associat with the specific agenda item being discussed.

Any person making impertinent or slanderous remarks or acting in a disruptive manner may be barred fro further participation. The Chairperson may advise that person to cease their discussion and may also a that an individual be removed from the meeting. If you have any questions, please ask City staff. Thank yo

- Viking Rep. objects to abandonment
  - has not been adequately considered

7

Planning and Zoning Board Meeting
Public Comment Card

8

ame: NORA MADONEY Date: 3/23/23

ddress: 2120 BROADWAY RB FL 33404

elephone Number: 5618425800 Email: deestees@bellsouth.net

[✓] I would like to speak. Agenda Item: A

[ ] I do not wish to speak but would like the following comments read into the record:

applicable: [ ] I support this item. [✓] I do not support this item

Planning and Zoning Board Meeting
Public Comment Card

8

Name: NORA MADONEY Date: 3/23/23

Address: 2120 BROADWAY RB FL 33404

Telephone Number: 5618425800 Email: deestees@bellsouth.net

[X] I would like to speak. Agenda Item: A

[ ] I do not wish to speak but would like the following comments read into the record:

If applicable: [ ] I support this item. [X] I do not support this item

Planning and Zoning Board Meeting
Public Comment Card

9

ame: VICTORIA RUSS Date: 3/23/2023

ddress: 232 E 23rd CT

elephone Number: 561 906 7729 Email: _____

[ ] I would like to speak. Agenda Item: _____

[ ] I do not wish to speak but would like the following comments read into the record:

_____

_____

_____

_____

applicable: [_] I support this item. [_] I do not support this item

Please complete this card and provide to City staff. The Chairperson will call your name when it is time for you to speak.

-listen to community

9

Planning and Zoning Board Meeting
Public Comment Card

10

Name: ALBERT CASE Date: 3/23/23

Address: 38 EAST 22Nd COURT

Telephone Number: 305-303-2792 Email: WPBSADIE BLUE@YAHOO.COM

[✓] I would like to speak. Agenda Item: _____

[_] I do not wish to speak but would like the following comments read into the record:

PROPETRY @ 138 EAST 22Nd COURT RIVIERA BEACH, DRUG HOUSE

If applicable: [_] I support this item. [_] I do not support this item

Please complete this card and provide to City staff. The Chairperson will call your name when it is time for you to speak.

Please complete this card and

- Boats killing his grass
- opposed to getting rid of avenue C

(10)

Planning and Zoning Board Meeting
Public Comment Card

11

ame: Philip RuoTolo Date: 3.23.23

ddress: 196 E. 27th St R.B.

elephone Number: _____ Email: _____

[✓] I would like to speak. Agenda Item: _____

[ ] I do not wish to speak but would like the following comments read into the record:

_____

_____

_____

_____

applicable: [ ] I support this item. [ ] I do not support this item

Please complete this card and provide to City staff. The Chairperson will call your name when it is time for you to speak.

Members of the public are encouraged to actively participate during Planning and Zoning Board Meeting and may do so by speaking on items or by providing comments in writing to be read into the record. Most often three minutes are provided to each individual on each action item, however, discussion time allocated may be modified from time to time.

If you wish to address the Board, please complete the reverse side of this card and provide it to City staff. Please be mindful that this card must be submitted to City staff before the item you wish to comment on is open for discussion. When your name is called by the Chairperson to speak, please state your name and address for the record before beginning your comments. Comments should be pertinent to and associated with the specific agenda item being discussed.

Any person making impertinent or slanderous remarks or acting in a disruptive manner may be barred from further participation. The Chairperson may advise that person to cease their discussion and may also ask that an individual be removed from the meeting. If you have any questions, please ask City staff. Thank you!

- hears boats being repaired now
- doesnt want sidewalks on N side of the street on 22nd Ct.
- doesnt want to look at wall

77

Planning and Zoning Board Meeting 12
Public Comment Card

ame: Daniel Gilbert Date: 3-23-23

ddress: 2100 Broadway

elephone Number: 561 844 2576 Email: fonzy123@live.com

[ ] I would like to speak. Agenda Item: _____

[✓] I do not wish to speak but would like the following comments read into the record:

We own the building and the property at the corner of 21st 2100 broadway. and were here for the same reason as A-Locksmith on 22nd st. We did not sell!!!

applicable: [_] I support this item. [_] I do not support this item

Please complete this card and provide to City staff. The Chairperson will call your name when it is time for you to speak.

- Seashell business owner
  - did not sell his property to Rybovich

12

Planning and Zoning Board Meeting

Public Comment Card

(13)

Name: Travis Bathen Date: 4/23/2023

Address: 37 East 21st St Riviera Bch FL

Telephone Number: 561 354 8381 Email: TJBFabrication@gmail.com

[X] I would like to speak. Agenda Item: 4 A B C D E F G H I

[ ] I do not wish to speak but would like the following comments read into the record:

~~#~~ 6 cards
18 mins

If applicable: [ ] I support this item. [X] I do not support this item

Please complete this card and provide to City staff. The Chairperson will call your name when it is time for you to speak.

Members of the public are encouraged to actively participate during Planning and Zoning Board Meeti and may do so by speaking on items or by providing comments in writing to be read into the record. M often three minutes are provided to each individual on each action item, however, discussion time alloca may be modified from time to time.

If you wish to address the Board, please complete the reverse side of this card and provide it to City st Please be mindful that this card must be submitted to City staff before the item you wish to comment on open for discussion. When your name is called by the Chairperson to speak, please state your name a address for the record before beginning your comments. Comments should be pertinent to and associat with the specific agenda item being discussed.

Any person making impertinent or slanderous remarks or acting in a disruptive manner may be barred fro further participation. The Chairperson may advise that person to cease their discussion and may also a that an individual be removed from the meeting. If you have any questions, please ask City staff. Thank yo

- drainage + traffic concerns
- MSD reports

13

Planning and Zoning Board Meeting
Public Comment Card

14

Name: Brandy Davis-Balsamo Date: 3/23/23

Address: 217 E 23rd St, Riviera Beach, FL

Telephone Number: 619-415-8216 Email: bdavisbalsamo@gmail.com

[X] I would like to speak. Agenda Item: A

[ ] I do not wish to speak but would like the following comments read into the record:

If applicable: [ ] I support this item. [X] I do not support this item

CASE: SP-22-0014

Page 37 of 352

Please fill out this card and provide to City staff. *The Chairperson will call your name when it is time for you to speak.*

- D street insufficient. dont want to fight with garage exit traffic.
- what happens in a hurricane

19

Planning and Zoning Board Meeting
Public Comment Card

15

Name: Ana Vegne Date: 3/23/23

Address: 167 E 24th St A

Telephone Number: 561-305-8582 Email:

[ ] I would like to speak. Agenda Item: A

[ ] I do not wish to speak but would like the following comments read into the record:

If applicable: [ ] I support this item. [ ] I do not support this item

Members of the public are encouraged to actively participate during Planning and Zoning Board Meeti and may do so by speaking on items or by providing comments in writing to be read into the record. M often three minutes are provided to each individual on each action item, however, discussion time alloca may be modified from time to time.

If you wish to address the Board, please complete the reverse side of this card and provide it to City st Please be mindful that this card must be submitted to City staff before the item you wish to comment on open for discussion. When your name is called by the Chairperson to speak, please state your name a address for the record before beginning your comments. Comments should be pertinent to and associat with the specific agenda item being discussed.

Any person making impertinent or slanderous remarks or acting in a disruptive manner may be barred fro further participation. The Chairperson may advise that person to cease their discussion and may also a that an individual be removed from the meeting. If you have any questions, please ask City staff. Thank yo

- Alternate traffic plan
- City should protect residents

15

Planning and Zoning Board Meeting
Public Comment Card

16

Name: SCOTT LEMING Date: 3/23/23

Address: 45 E 24TH

Telephone Number: 860-857-8455 Email: SCOTSAIL@GMAIL.COM

[ ] I would like to speak. Agenda Item: A abandonment

[X] I do not wish to speak but would like the following comments read into the record:

I AM COUSERNED ABOUT TRAFFIC TROUGH THE NEIGHBOR HOOD AND ABILITY TO TURN SOUTH ONTO BROADWAY,

If applicable: [ ] I support this item. [X] I do not support this item

and provide to City staff. The Chairperson will call your name when it is time for you to speak.

- Cars cut through neighborhood
- fuel storage tanks
- impact fee should fix drainage

16

Planning and Zoning Board Meeting
Public Comment Card

17

Name: Glen Mock Date: 3/23/23

Address: 118 E. 24th St. Riviera Beach FL. 33404

Telephone Number: 816-896-3412 Email: glenmock1@gmail.com

[X] I would like to speak. Agenda Item: A - abandonment

[ ] I do not wish to speak but would like the following comments read into the record:

If applicable: [ ] I support this item. [ ] I do not support this item

Please complete and provide to City staff. The Chairperson will call your name when it is time for you to speak.

concern:
- traffic being diverted into neighborhood
  - D street insufficient

17

Planning and Zoning Board Meeting
Public Comment Card

18

Name: Gerard M Ward Date: 23 March 2023

Address: 2135 Broadway RB

Telephone Number: 561 863-1215 Email: Wardgm@gatehst

[X] I would like to speak. Agenda Item: VIII A

[ ] I do not wish to speak but would like the following comments read into the record:

If applicable: [ ] I support this item. [X] I do not support this item

Please complete this card and provide to City staff. The Chairperson will call your name when it is time for you to speak.

Members of the public are encouraged to actively participate during Planning and Zoning Board Meeting and may do so by speaking on items or by providing comments in writing to be read into the record. Mos often three minutes are provided to each individual on each action item, however, discussion time allocate may be modified from time to time.

If you wish to address the Board, please complete the reverse side of this card and provide it to City staff Please be mindful that this card must be submitted to City staff before the item you wish to comment on i open for discussion. When your name is called by the Chairperson to speak, please state your name and address for the record before beginning your comments. Comments should be pertinent to and associated with the specific agenda item being discussed.

Any person making impertinent or slanderous remarks or acting in a disruptive manner may be barred from further participation. The Chairperson may advise that person to cease their discussion and may also ask that an individual be removed from the meeting. If you have any questions, please ask City staff. Thank you!

- fraudulent ownership affidavit
- access issues. D - street etc.

19

Planning and Zoning Board Meeting
Public Comment Card

19

Name: Gregg Moree Date: _____

Address: 251 31st Ave Owen

Telephone Number: _____ Email: _____

[ ] I would like to speak. Agenda Item: A, B Zyborich

[ ] I do not wish to speak but would like the following comments read into the record:

grand motto 31st 117
HISTORICAL SOCIETY HOUSE
RD

If applicable: [ ] I support this item. [ ] I do not support this item

Please complete this card and provide to City staff. The Chairperson will call your name when it is time for you to speak.

19

Planning and Zoning Board Meeting
Public Comment Card

20

ame: RICHARD DEAN Date: 3/23/23

ddress: 200 E. 23RD ST. RIV. BCH

elephone Number: (561) 625-8748 Email: DEAN@DEANSURVEYORS.COM

[X] I would like to speak. Agenda Item: VIII A

[ ] I do not wish to speak but would like the following comments read into the record:

applicable: [ ] I support this item. [ ] I do not support this item

Please complete this card and provide to City staff. The Chairperson will call your name when it is time for you to speak.

- Where are the restaurants
- where is drainage?
- $3 million for abandonment + impact fees should go
- above ground storage facility. near neighborhood

20

John

Planning and Zoning Board Meeting

Public Comment Card

21

Did Not Answer

Name: John Stephen Fleischer Date: Mar. 23. 2023

Address: 232 E. 23rd St. Riviera Bch, FL 33404.

Telephone Number: 561.446.3160 Email: SFMIA2@gmail.com

[_] I would like to speak. Agenda Item: A- Abandonment

[X] I do not wish to speak but would like the following comments read into the record:

If applicable: [_] I support this item. [X] I do not support this item

CASE: SP-22-0014

Please complete this card and provide to City staff. The Chairperson will call your name when it is time for you to speak.

21

Planning and Zoning Board Meeting

Public Comment Card

22

4 cards 5
12 mins 5/15

Name: Theresa White Date: 3/23/23

Address: 241 E 23rd St.

Telephone Number: 270 792 1741 Email: Titansgirl09@gmail.com

[ ] I would like to speak. Agenda Item: _____

[✓] I do not wish to speak but would like the following comments read into the record:

Safe Harbor took the stoplight @ E 21st which provides entry into the "campus". They now want to use the stoplight @ E 22nd for entrance & exit from the "campus" thereby increasing, to a significant degree, traffic in the adjoining neighborhood. I propose they use their light @ E 21st ~~and~~ as not only a courtesy but as a safety measure.

Applicable: [ ] I support this item. [ ] I do not support this item

Please complete this card and provide to City staff. The Chairperson will call your name when it is time for you to speak.

Why do they require 2 lights.

Members of the public are encouraged to actively participate during Planning and Zoning Board Meeting and may do so by speaking on items or by providing comments in writing to be read into the record. Mos often three minutes are provided to each individual on each action item, however, discussion time allocate may be modified from time to time.

If you wish to address the Board, please complete the reverse side of this card and provide it to City staff Please be mindful that this card must be submitted to City staff before the item you wish to comment on i open for discussion. When your name is called by the Chairperson to speak, please state your name and address for the record before beginning your comments. Comments should be pertinent to and associated with the specific agenda item being discussed.

Any person making impertinent or slanderous remarks or acting in a disruptive manner may be barred from further participation. The Chairperson may advise that person to cease their discussion and may also ask that an individual be removed from the meeting. If you have any questions, please ask City staff. Thank you!

22

Planning and Zoning Board Meeting
Public Comment Card

23

ame: MANNY XAVIER Date: 03-23-23

ddress: E 25TH ST

elephone Number: _____ Email: _____

[✓] I would like to speak. Agenda Item: A

[_] I do not wish to speak but would like the following comments read into the record:

_____

_____

_____

_____

applicable: [_] I support this item. [✓] I do not support this item

Please complete this card and provide to City staff. The Chairperson will call your name when it is time for you to speak.

Did not speak

23

Planning and Zoning Board Meeting

Public Comment Card

24

Name: Mike Mahoney Date: 3-23-23

Address: 2120 Broadway

Telephone Number: 561 842 3800 Email: deestees@bellsouth.net

[_] I would like to speak. Agenda Item: "A"

[_] I do not wish to speak but would like the following comments read into the record:

If applicable: [_] I support this item. [_] I do not support this item

Please complete this card and provide to City staff. The Chairperson will call your name when it is time for you to speak.

Members of the public are encouraged to actively participate during Planning and Zoning Board Meeti and may do so by speaking on items or by providing comments in writing to be read into the record. M often three minutes are provided to each individual on each action item, however, discussion time alloca may be modified from time to time.

If you wish to address the Board, please complete the reverse side of this card and provide it to City st Please be mindful that this card must be submitted to City staff before the item you wish to comment on open for discussion. When your name is called by the Chairperson to speak, please state your name a address for the record before beginning your comments. Comments should be pertinent to and associat with the specific agenda item being discussed.

Any person making impertinent or slanderous remarks or acting in a disruptive manner may be barred fro further participation. The Chairperson may advise that person to cease their discussion and may also a that an individual be removed from the meeting. If you have any questions, please ask City staff. Thank yo

- PCN was used inappropriately for him and 3 other

24

Planning and Zoning Board Meeting
Public Comment Card

25

ame: Michael Mahoney Date: 3-23-23

ddress: 2120 Broadway R.B

elephone Number: 561-842-5800 Email: deestees@bellsouth.net

_] I would like to speak. Agenda Item: Public Comment

_] I do not wish to speak but would like the following com

ADDTL. COMMENTS

(2) comments.

applicable: [_] I support this item. [_] I

Please complete this card and provide to City staff. The Chairperson wi

Members of the public are encouraged to actively participate during Planning and Zoning Board Meeting and may do so by speaking on items or by providing comments in writing to be read into the record. Mos often three minutes are provided to each individual on each action item, however, discussion time allocate may be modified from time to time.

If you wish to address the Board, please complete the reverse side of this card and provide it to City staff Please be mindful that this card must be submitted to City staff before the item you wish to comment on i open for discussion. When your name is called by the Chairperson to speak, please state your name and address for the record before beginning your comments. Comments should be pertinent to and associated with the specific agenda item being discussed.

Any person making impertinent or slanderous remarks or acting in a disruptive manner may be barred from further participation. The Chairperson may advise that person to cease their discussion and may also ask that an individual be removed from the meeting. If you have any questions, please ask City staff. Thank you!

Wants prior notice for next meeting

25

Planning and Zoning Board Meeting
Public Comment Card

26

ame: Jane Lozman Date: 2/23/23

ddress: Singer Island

elephone Number: _____ Email: _____

_] I would like to speak. Agenda Item: general public comment

_] I do not wish to speak but would like the following comments read into the record:

_____

_____

_____

_____

pplicable: [_] I support this item. [_] I do not support this item

Please complete this card and provide to City staff. The Chairperson will call your name when it is time for you to speak.

Members of the public are encouraged to actively participate during Planning and Zoning Board Meetings and may do so by speaking on items or by providing comments in writing to be read into the record. Most often three minutes are provided to each individual on each action item, however, discussion time allocated may be modified from time to time.

If you wish to address the Board, please complete the reverse side of this card and provide it to City staff. Please be mindful that this card must be submitted to City staff before the item you wish to comment on is open for discussion. When your name is called by the Chairperson to speak, please state your name and address for the record before beginning your comments. Comments should be pertinent to and associated with the specific agenda item being discussed.

Any person making impertinent or slanderous remarks or acting in a disruptive manner may be barred from further participation. The Chairperson may advise that person to cease their discussion and may also ask that an individual be removed from the meeting. If you have any questions, please ask City staff. Thank you!

"Viking is evil"

26

Planning and Zoning Board Meeting
Public Comment Card

27

Name: GERARD M. WANS Date: 23 MARCH 2023

Address: 235 BROADWAY

Telephone Number: 561/863-1215 Email: WANSGM@GATE.NET

[ ] I would like to speak. Agenda Item: VIII C ZONING
(General comment)

[ ] I do not wish to speak but would like the following comments read into the record:

If applicable: [ ] I support this item. [X] I do not support this item

Please complete this card and provide to City staff. The Chairperson will call your name when it is time for you to speak.

Members of the public are encouraged to actively participate during Planning and Zoning Board Meeting and may do so by speaking on items or by providing comments in writing to be read into the record. Mos often three minutes are provided to each individual on each action item, however, discussion time allocate may be modified from time to time.

If you wish to address the Board, please complete the reverse side of this card and provide it to City staff Please be mindful that this card must be submitted to City staff before the item you wish to comment on i open for discussion. When your name is called by the Chairperson to speak, please state your name and address for the record before beginning your comments. Comments should be pertinent to and associated with the specific agenda item being discussed.

Any person making impertinent or slanderous remarks or acting in a disruptive manner may be barred from further participation. The Chairperson may advise that person to cease their discussion and may also ask that an individual be removed from the meeting. If you have any questions, please ask City staff. Thank you!

-recommends workshop as next step

27