DRAFT

Utility Assessment Package

Florida Department of Transportation

District 4

Cove Road Project Development & Environment (PD&E) Study

From SR 76/Kanner Hwy to SR 5/US 1/Federal Hwy

Martin County, Florida

Financial Management Number: 441700-1

ETDM Number: 14479

February 2025

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1.0 Introduction

The Florida Department of Transportation (FDOT), District Four, is conducting a Project Development and Environmental (PD&E) Study for proposed changes on Cove Road from State Road (SR) 76/Kanner Highway (Hwy) to SR 5/US 1/Federal Hwy in Martin County. Cove Road is classified as a two-lane undivided rural roadway.

The location and limits of the area of study can be seen in **Figure 1.**

1.1 Purpose of Utilities Assessment Package

This Utility Assessment Package has been assembled to provide information on existing and planned utilities on Cove Road from SR 76/Kanner Hwy to SR 5/US 1/Federal Hwy in Martin County, Florida. This package contains information on the names of utility companies, aerials denoting the location of major existing and proposed facilities, the description of each utility identified, and project coordination efforts.

1.2 Existing Roadway Facilities

The existing roadway typical section is a two-lane undivided rural roadway with 12-foot travel lanes and 4-foot paved shoulders along both sides of the road. The road widens in some areas to provide exclusive left or right turn lanes. Six-foot sidewalks are provided along the north side of the road through the project limits and along the south side of the road from Kanner Highway to SE Atlantic Ridge Drive and from west of Martinique Drive to Cable Drive. The existing right of way varies from 97 feet to 203 feet in width between Kanner Highway and Avalon Drive and narrows to 90 feet in width from Avalon Drive to US 1. Stormwater runoff is collected in roadside swales.

The Cove Road study limits were broken down into two evaluation segments based on the existing road right-of-way. Segment 1 is from Kanner Highway to Avalon Boulevard and Segment 2 is from Avalon Boulevard to US 1. The existing Cove Road typical sections in each segment are shown in **Figures 1-2 and 1-3**, respectively.

Figure 1-1 Project Location Map

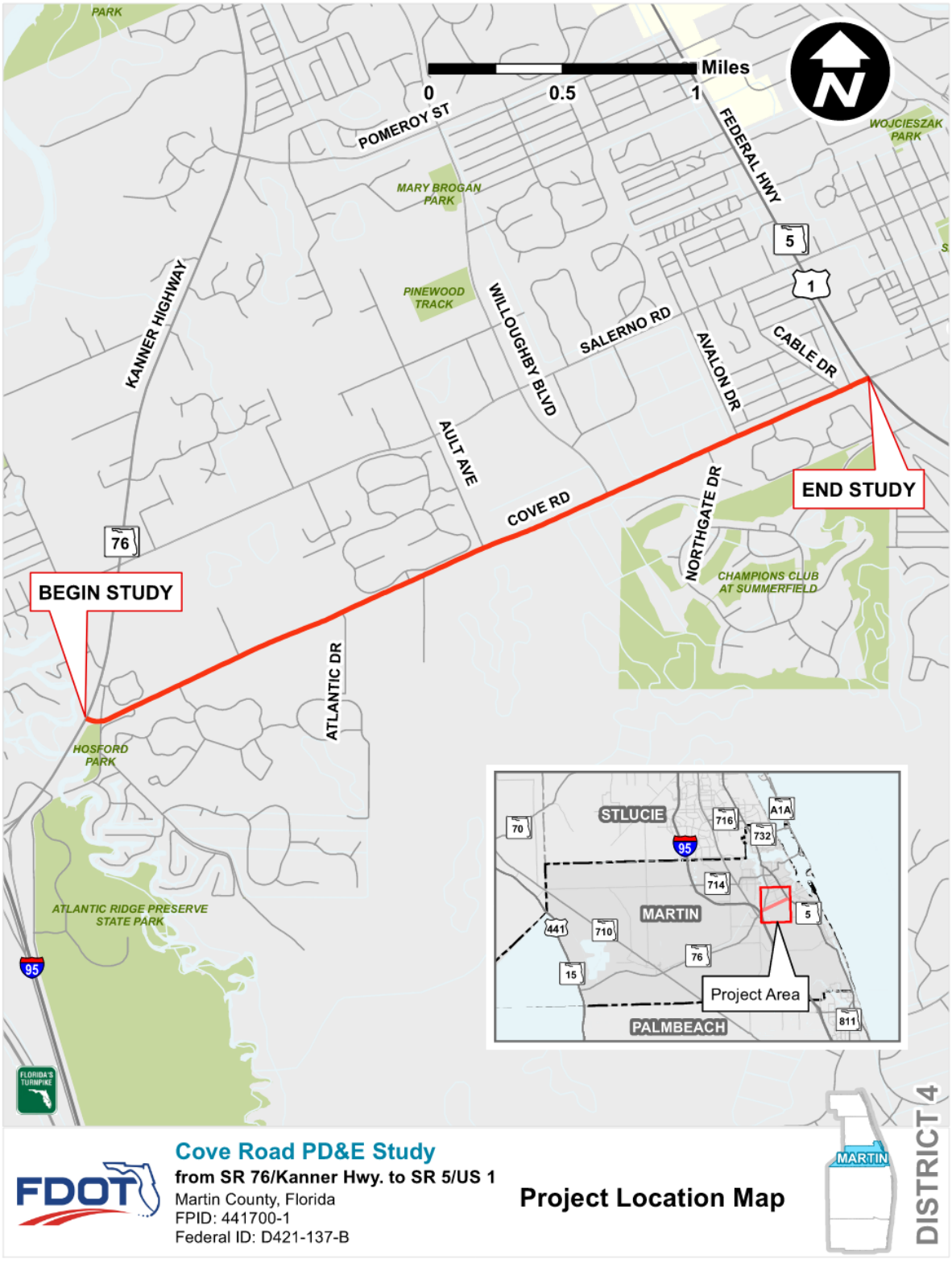


Figure 1-2 Segment 1 Existing Typical Section

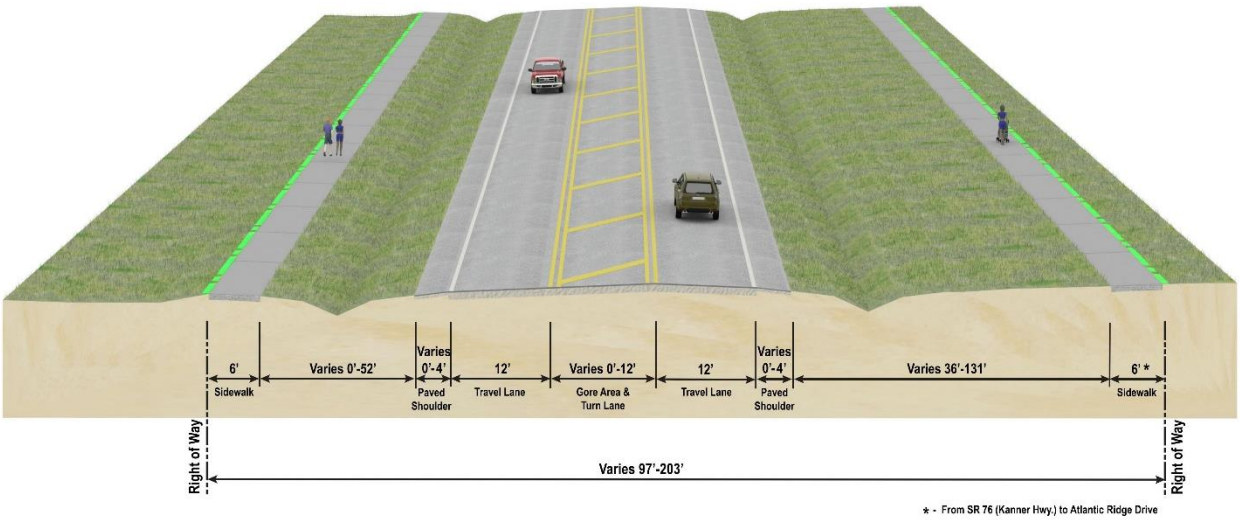
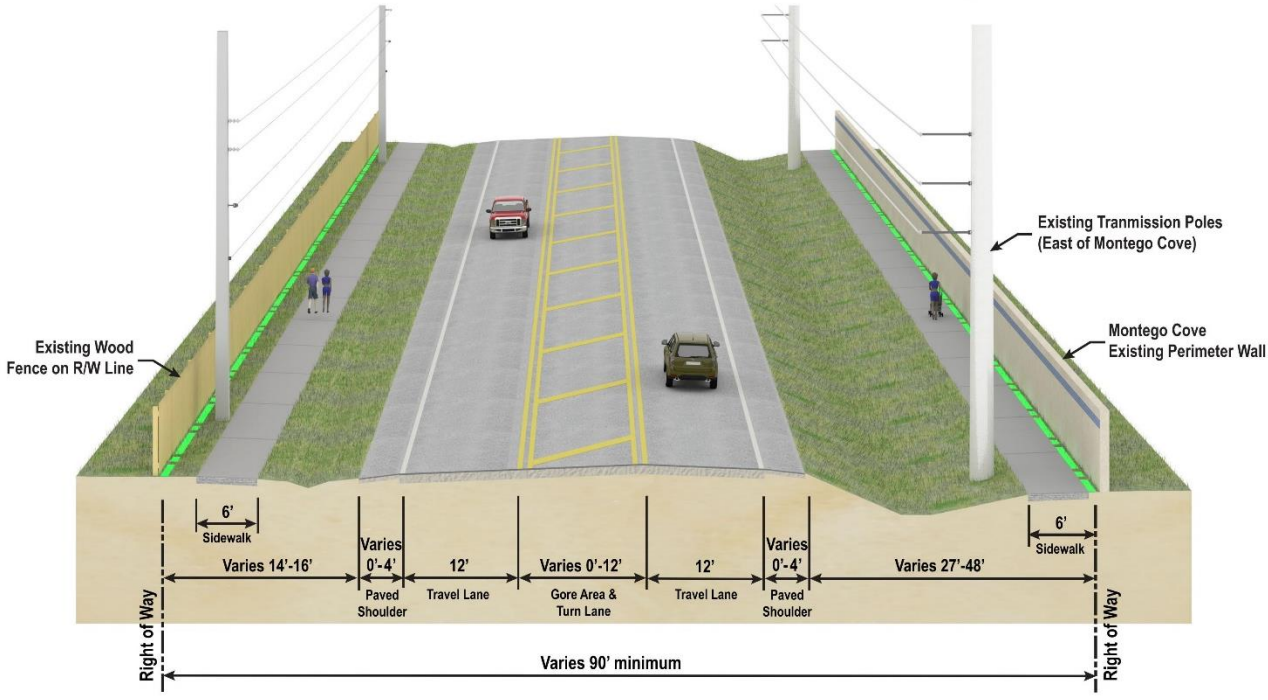


Figure 1-3 Segment 2 Existing Typical Section



1.3 Proposed Roadway Improvements

The Cove Road study limits were broken down into two evaluation segments based on the existing road right-of-way.

- Segment 1 – Kanner Highway to Avalon Boulevard
- Segment 2 – Avalon Boulevard to US 1

Below is a summary of the roadway improvements considered for each evaluation segment.

Segment 1 Build Alternative 1A

Alternative 1A is a four-lane divided urban roadway with two 11-foot travel lanes divided by a 22-foot raised median. Seven-foot buffered bike lanes are included in both directions and a six-foot sidewalk is provided on the north side of the road and a 12-foot shared use path is provided along the south side of the road. Stormwater runoff is collected in curb and gutter and directed to offsite stormwater ponds through underground pipes. The six-foot sidewalk is located four-feet behind the curb and the 12-foot shared use path is located eight- and one-half feet behind the curb on the south side. Roadway lighting can be accommodated in these areas. The total minimum right-of-way needed for this typical section is 122.5 feet and this alternative can generally be constructed within the existing right-of-way. Saving the existing pavement cannot be accomplished due to the location of the existing roadway within the existing right-of-way, so full reconstruction will be required.

Segment 1 Build Alternative 1B

Alternative 1B is a four-lane divided urban roadway with two 11-foot travel lanes divided by a 22-foot raised median. There are no on-road bicycle lanes proposed and bicycles and pedestrians are accommodated with a 12-foot shared use path along both sides of the road. Stormwater runoff is collected in curb and gutter and directed to offsite stormwater ponds through underground pipes. The 12-foot shared use paths are located eight- and one-half feet behind the curb and roadway lighting can be accommodated in this area. The total minimum right-of-way needed for this typical section is 119 feet and this alternative can generally be constructed within the existing right-of-way. Saving the existing pavement cannot be accomplished due to the location of the existing roadway within the existing right-of-way, so full reconstruction will be required.

Segment 2 Build Alternative 2A

Because the existing right-of-way is only 90 feet in Segment 2, the typical section alternatives have elements that have been reduced from the standard desired widths. Alternative 2A is a four-lane divided urban roadway with two 11-foot travel lanes divided by a 19.5-foot raised median. A seven-foot buffered bike lane is included along the north side of the road along with a six-foot sidewalk offset from the curb by four feet. There is no on-road bike lane along the south side of the road and bicyclists and pedestrians are accommodated on a 10-foot shared use path that is separated from the curb by six feet. Stormwater runoff is collected in curb and gutter and directed to offsite stormwater ponds through underground pipes. Roadway lighting can be accommodated in the area between the sidewalk/shared use path and the curb. The total minimum right-of-way needed for this typical section is 108.5 feet which is an additional 18.5 feet of right-of-way. Saving the existing pavement cannot be accomplished due to the location of the existing roadway within the existing right-of-way, so full reconstruction will be required.

The horizontal alignment begins with north side widening for several hundred feet and then shifts to south side widening. The north side widening is required to avoid impacts to the Montego Cove condominium buildings and the access to the buildings.

Segment 2 Build Alternative 2B

Alternative 2B is a four-lane divided urban roadway with two 11-foot travel lanes divided by a 19.5-foot raised median. There are no on-road bicycle lanes proposed and bicycles and pedestrians are accommodated with a 10-foot shared use path along both sides of the road. Stormwater runoff is collected in curb and gutter and directed to offsite stormwater ponds through underground pipes. The 10-foot shared use paths are located six feet behind the curb and roadway lighting can be accommodated in this area. The total minimum right-of-way needed for this typical section is 107.5 feet which means an additional 17.5 feet of right-of-way would be required. Saving the existing pavement cannot be accomplished due to the location of the existing roadway within the existing right-of-way, so full reconstruction will be required.

The horizontal alignment begins with north side widening for several hundred feet and then shifts to south side widening. The north side widening is required to avoid impacts to the Montego Cove condominium buildings and the access to the buildings.

Typical Section 2C (described below) was developed based on Typical Section 2B, but some elements were further reduced, so Alternative 2B was dropped from further consideration.

Segment 2 Build Alternative 2C

Alternative 2C is a four-lane divided urban roadway with a 10-foot inside lane and an 11-foot outside travel lane divided by a 15.5-foot raised median. There are no on-road bicycle lanes proposed and bicycles and pedestrians are accommodated with a 10-foot shared use path along both sides of the road. Stormwater runoff is collected in curb and gutter and directed to offsite stormwater ponds through underground pipes. The 10-foot shared use paths are located six feet behind the curb and roadway lighting can be accommodated in this area. The total minimum right-of-way needed for this typical section is 101.5 feet which means an additional 11.5 feet of right-of-way would be required. Saving the existing pavement cannot be accomplished due to the location of the existing roadway within the existing right-of-way, so full reconstruction will be required.

The horizontal alignment begins with north side widening for several hundred feet and then shifts to south side widening. The north side widening is required to avoid impacts to the Montego Cove condominium buildings and the access to the buildings.

Segment 2 Build Alternative 2D

Alternative 2D is a four-lane divided urban roadway with a 10-foot inside lane and an 11-foot outside travel lane divided by a 15.5-foot raised median. A six-foot on-road bike lane is included along the north side of the road along with a six-foot sidewalk at the back of curb. A concrete gravity wall is proposed behind the sidewalk to minimize the right-of-way footprint. There is no on-road bike lane along the south side of the road and bicyclists and pedestrians are accommodated on a 10-foot shared use path that is separated from the curb by six feet. The shared use path will be pulled up to the back of curb in order to avoid impacts to the Montego Cove condominiums. The shared use path will also swing out to go out around the large concrete transmission poles east of the Montego Cove condominiums. Stormwater runoff is collected in curb and gutter and directed to offsite stormwater ponds through underground pipes. The total minimum right-of-way needed for this typical section is

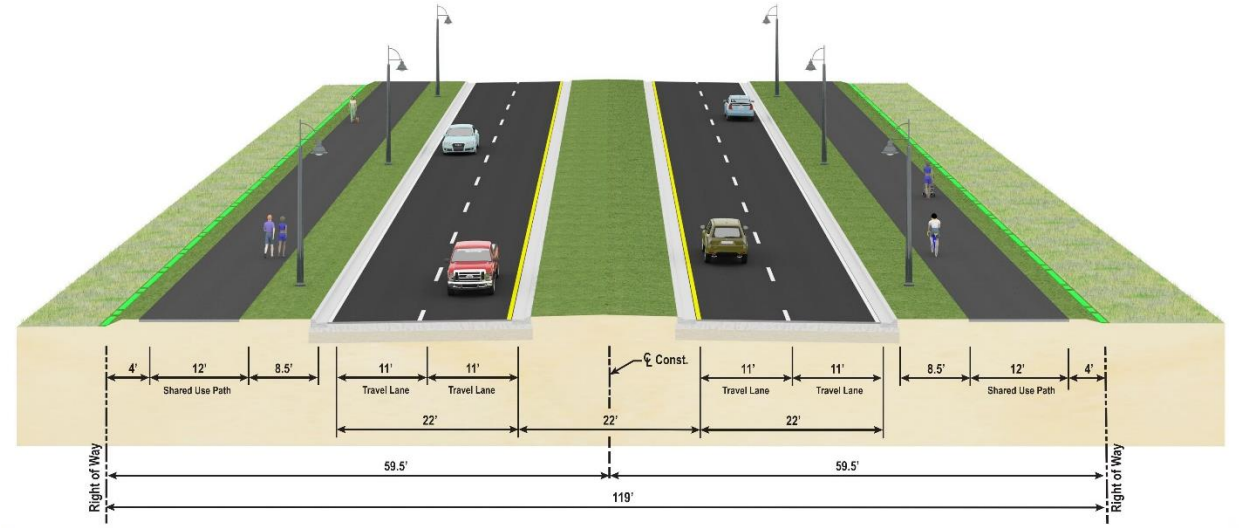
96.25 feet which is an additional 6.25 feet of right-of-way. Saving the existing pavement cannot be accomplished due to the location of the existing roadway within the existing right-of-way, so full reconstruction will be required. The horizontal alignment only involves widening to the south side of the road.

1.4 Recommended Preferred Alternatives

Segment 1 Preferred Alternative

Alternative 1B is the preferred alternative in Segment 1 from Kanner Highway to Avalon Boulevard. This typical section was preferred by the public and by the Martin Metropolitan Planning Organization (MPO) because it accommodate bicyclists on shared use paths instead of on-road bicycle lanes. The preferred alternative also includes roundabouts at the SE Tres Belle Circle intersection and Ault Avenue intersection. The concept also proposes to convert the existing one direction inbound SW Gaines Avenue Road to a two-way road and to convert the Gaines Avenue Extension to a one-way westbound roadway. The Gaines Avenue Extension was constructed to move the intersection of Gaines Avenue away from Kanner Highway so that a full median opening could be provided. This new concept does not include a full median opening at either SW Gaines Avenue or the Gaines Avenue Extension. Input from the public included concerns with the narrow pavement width and sharp curve at the east end of the Gaines Avenue Extension for vehicles towing trailers, so conversion to a one-way inbound road addresses this concern. Saving the existing pavement cannot be accomplished due to the location of the existing roadway within the existing right-of-way, so full reconstruction will be required. **Figure 1-4** illustrates Typical Section 1B.

Figure 1-4 Segment 1 Alternative 1B



Segment 2 Preferred Alternative

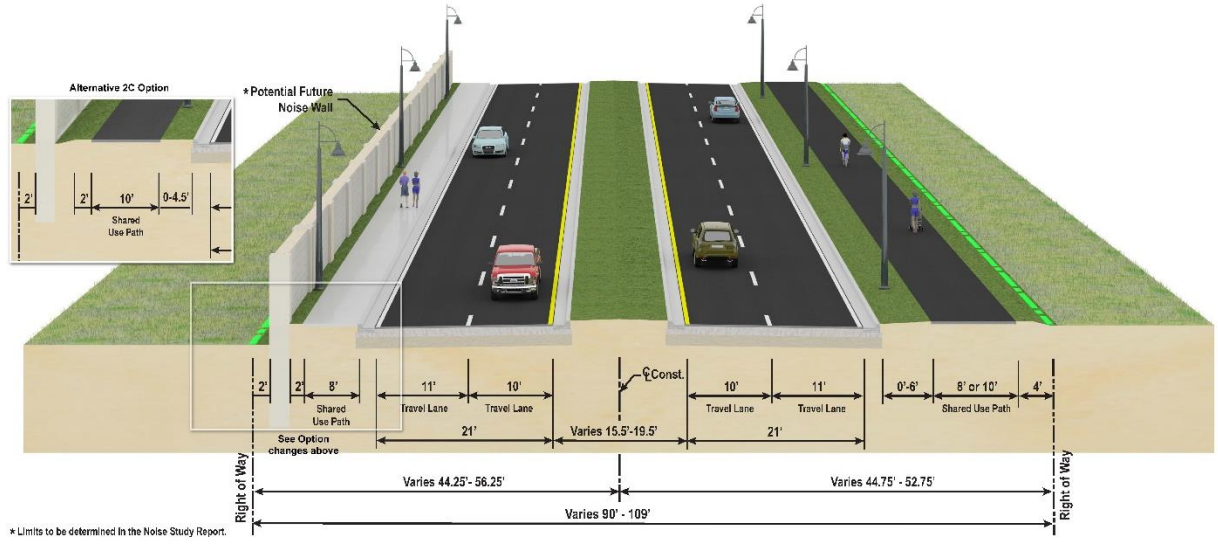
The preferred alternative in Segment 2 is a variation of Alternative 2C (**Figure 1-5**). Support for a concept that includes shared use paths along both sides of the road was also received from the public and the Martin MPO, but there were concerns with right-of-way impacts to the residences along the north side of the road. In order to minimize right-of-way impacts in Segment 2, the shared use path was reduced to 8 feet in width and is located

adjacent to the curb through the constrained area between the Hibiscus Park neighborhood on the north and Montego Cove condominiums on the south side. In addition, a new roadway connection from SE Martinique Trace to Cove Road (exit only) is proposed to provide a safer crossing of Cove Road to head west on Cove Road from the Montego Cove condominiums. The total minimum right-of-way needed for this typical section ranges from 90 feet to 109 feet. As much as an additional 19 feet of right-of-way will be required. Saving the existing pavement cannot be accomplished due to the location of the existing roadway within the existing right-of-way, so full reconstruction will be required.

The horizontal alignment begins with centered widening from Avalon Road to just east of the last Montego Cove building on the south side of the road within the existing right-of-way. Then the widening shifts to the south with additional right-of-way required along the south side of the road through the remainder of the project.

Design variations will be needed for median width, shared use path horizontal clearance, and shared use path separation from the roadway.

Figure 1-5 Segment 2 Alternative 2C - Modified



2.0 EXISTING UTILITIES

Utility Agency Owners (UAOs) were contacted and requested to provide information regarding their utility facilities within the project area. Inventory of the UAOs within the project area was obtained through Sunshine 811 on March 21, 2024. Utilities include electric, gas, water, sewer, cable, and telephone. Existing UAOs and contact information are provided in **Table 2-1**. Plans showing the approximate location of the utility facilities are provided in **APPENDIX A.**

Table 2-1 Existing UAO Contact List

Utility Agency Owner	Facility	Location of UAO	Contact Information
AT&T DISTRIBUTION	TELEPHONE	Overhead and Underground North and South	Garcia Garth Ramnon 561-236-6730 gr150m@att.com
COMCAST	CATV, FIBER	Overhead North, Underground crossing North to South	Timothy Henes 561-325-2963 timothy_henes@comcast.com sfl_markups@comcast.com
CROWN CASTLE	FIBER	Underground North side	Livia De Mattos-Siech 727-619-8126 crowncastlefloridareviews@crowncastle.com
FPL (Distribution)	ELECTRIC	Overhead and Underground North and South	Martin Mikhail 561-993-6825 martin.mikhail@fpl.com
FPL (Transmission)	ELECTRIC	Overhead South and North	Craig Ledbetter 561-701-0462 craig.ledbetter@fpl.com fpl-transmission-relocation-request.sharedmailbox@nexteraenergy.com
HOTWIRE COMMUNICAITONS	FIBER	Underground South side	Walter Sancho-Davila 954-699-0900 Walter.sancho-davila@hotwirecommunications.com
MARTIN COUNTY UTILITIES	SEWER, WATER	Underground North and South	Steve Vandersluis 772-223-7977 svandersluis@martin.fl.us
TECO PEOPLES GAS	GAS	Underground North and South	Max Chamorro 954-453-0812 mjchamorro@tecoenergy.com

Notes: The UAO contact list was developed based on letters sent to each UAO and/or via responses received from the UAO with in Cove Road corridor.

2.1 Utility Owners/Providers Locations

All of the utility providers and operators were contacted on March 21, 2024 and were provided aerial maps of the project for review. Based on the aerial maps, UAOs were asked to assist in locating and identifying their existing and planned facilities within the area of study. Through mark-ups and/or verbal descriptions, most utility providers or operators provided information on the location and type of existing facilities and information on the planned facilities anticipated in the future. Coordination documentation with UAOs is provided in **Appendix B**. At the time of utility contact efforts, none of the UAOs indicated any future planned facilities or upgrades to existing facilities within the project limits. A description of the existing facilities and associated relocation costs are outlined in **Table 3-1**. The following is a summary of existing utility facilities within the study limits.

Table 3-2 Existing Utilities and Estimated Relocation Costs

Company	Description	Relocation Cost
AT&T Distribution	• AT&T has 2 buried cables coming from Kanner Hgwy entering Cove Rd on the southeast corner, at Gaines Ave there are 3 handholes on the northwest, southwest and northeast corners as well as 4 cables buried going north and south down Gaines Ave. • From the handhole on the northeast side of Cove Rd. and Gaines Ave both AT&T lines go aerial on the north side of the road. • There is 1 buried FOC that comes from SE Tres Belle Cir crosses Cove Rd and travels east on the north side of Cove Rd. • 1 cable splices off aerial and travels north up SE Burnett Ave. • At station number 260+60 there is an ATT fiber cabinets and hand holes on the north side of Cove Rd. • On the southwest side of Cove Rd and SE Legacy Cove an aerial line goes buried and continues east on the north side of Cove Rd. until it crosses Cove Rd at the northwest corner of SE Ault Ave. • At SE Legacy Cove Cir, 1 aerial line transitions to buried and enters a handhole on the northeast corner of Cove Rd and SE Lagacy Cove and crosses to the south side of Cove Rd into a hand hole where one fiber transitions southwest, the other northeast and continues until reaching their handholes going south out of the scope of the project. • One aerial line crosses to the south side of Cove Rd an SE Legacy Cove Cir and continues aerial down the south side of Cove Rd.	$300-500K

	• From Cove Rd. and SE Ault Ave there are 2 lines that continue east aerial on the north side and 1 cable aerial on the south side of Cove Rd. • At Cove Rd and SE Willoughby Blvd an aerial cable transitions to buried on the north side goes into a crossbox and crosses south out of the project limits. • On the northwest corner of Cove Rd and SE Avalon 2 aerial cables transition to buried into a handhole and cross Cove Rd going south into several pieces of ATT equipment. • The remaining aerial cable transitions to buried on the northwest corner of Cove Rd and SE Cable Dr and crosses Cove Rd to ATT equipment. • At station number 358 there is one handhole on the north side of Cove road and multiple handholes on the south side of Cove Rd. leading to multiple ATT cabinets in the easement. • There is 1 cable the runs north and south on SE Cable Dr and crosses Cove Rd continuing south. • From SE Cable Dr to Federal Highway there are 2 buried cables on the north side of the road and 8 buried cables on the south side of the road.	
Comcast	• Comcast has aerial facilities that travel on the north side of Cove Rd. • There are existing aerial facilities running north and south on Kanner Hwy. and Gaines Ave. • There is an underground crossing on the north side of Tres Belle Circle. • There is an existing underground crossing just south of Legacy Cove. • There is an aerial crossing southwest of Grace Lane. • Comcast travels northwest on the southwest side of Ault Ave. aerial. • There is an existing underground crossing just north of Willoughby Blvd. • Comcast crosses Cove Rd. buried north of Avalon Dr and continues east buried on the south side while the north side continues aerial. • Comcast goes from aerial to buried south of Northgate Dr. and goes back aerial north of Northgate Dr.	$200-250K

	• On the northeast corner of Cable Dr and Cove Rd aerial cable transitions to buried crosses Cove Rd and transitions to aerial and goes east to Federal Highway.	
Crown Castle	• Crown Castle has 1 FOC that is buried and aerial that is along the north side of Cove Rd. • There is one handhole on the northeast corner of Kanner Highway and Cove Rd and 1 buried FOC that travels east on the north side of Cove Rd. • At Atlantic Ridge Dr. the buried FOC transitions to aerial on the north side of Cove Rd.. • There is a handhole on the northwest corner of SE Willoughby and Cove Rd where the FOC transitions from aerial to buried and continues east on the north side of Cove Rd. • There is a handhole on northeast side of SE Willoughby and transitions aerial northeast of SE Willoughby. • There is handhole on approximately a 1000 feet east of SE Avalon where the FOC transitions to buried on the north side of Cove Rd. • There is a handhole approximately 400 feet west of SE Cable Dr. on the north side of Cove Rd and crosses Federal Highway.	$175-200K
FPL Distribution	• FPL is overhead on the north side of Cove Rd from S Kanner Hwy to SE Cable Dr. • FPL crosses Cove Rd. underground to Tres Belle Circle and west of SE Atlantic Ridge Rd. • FPL crosses Cove Rd underground at the north and south entrance of SE Ault Ave and SE Twin Oaks. • There is an underground crossing north to south at station number 247. • There is an underground crossing north to south at station number 268. • There is a FPL riser on the northwest and northeast corners of SE Legacy Cove Cir going north into the subdivision. • There is an underground crossing north to south at station number 275 and station number 277+40. • There is an underground crossing north to south on Cove Rd at station number 287.	$500K

	• There is an underground crossing at station number 309+80. • There is an underground crossing at station number 312+20 and 313+20. • There is an underground crossing at station number 333+60 and 335+80. • There is an aerial FPL Diistribution pole line on both sides of Cove Rd starting at Avalon Dr to Federal Highway.	
FPL Transmission	• There are 5 138KV aerial transmission lines on the south side of the road within a documented easement that will need to be relocated.	$750-1Million
Hotwire Communications	• Hotwire Communications maintains an existing underground FOC in 1-2" HDPE facility that is within the study corridor from SE Northgate Drive to Federal Highway on the south side of Cove Road and continues north and south on the west side of Federal Highway.	$100K
Martin County Utilities	• A 12 " pvc Water Main comes down the east side of Gaines, 1 leg crosses Cove Rd and continues east on the south side of Cove Rd, the second leg continues east on the north side of Cove Rd. • A 12" pvc Force Main comes South down Gaines Ave on the Wast side and crosses Cove Rd. • From SW Gaines Ave going east there is an 18" pvc Water Main and a 12" pvc Force Main on the south side of Cove Rd. and a 12" pvc Water Main on the north side of Cove Rd. • A second 16" Force Main ties into the southeast corner of Gaines Ave and Cove Rd and travels east on the south side of Cove Rd until it hits SE Atlantic Ridge Dr and crosses Cove Rd to tie into the Force Main on the north side of the road. • The 12" pvc Force Main crosses to the north side of Cove Rd. and contiues east. • The Water and Force Main cross Cove Rd. to the south at SE Tres Belle Circle. • From SE Tres Belle Circle the 12" pvc Force Main continues east on the north side of Cove Rd. and Water Main continues east on the south side of Cove Rd. • There is one 12" pvc Reclaim Main that starts on the south side of Cove Rd just west of Gaines Ave and continues east on the south side of Cove Rd. • Water main branches to the north side of Cove Rd 900 feet west of Willoughby Rd Water main continues east on north and south side of Cove Rd	$250-500K

	• At Willoughby Blvd a 12-inch water main crosses Cove Rd to the north and ties into the water main on the north side of Cove Rd. • At Ault Ave the water main goes north on the east side of Ault and crosses Cove Rd and ties into the water main on the south side of Cove Rd. • At SE Northgate Dr. the water main T's off and goes south on the west side of SE Northgate Dr. • At SE Northgate Dr. the force main T's off from the north side of Cove Rd. and goes south on the east side of SE Northgate Dr. • At SE Haven Lane. the water main T's off and goes south on the west side of SE Haven Lane. • At SE Haven Lane. the force main T's off from the north side of Cove Rd. and goes south on the east side of SE Haven Lane. • 6-inch force main crosses Cove Rd and goes south down the east side of Martinique Dr. 8-inch water main goes south down the east side of road. • Martin County maintains an ITS fiber that requires field verfication during final design. Due to public records exemption status markups were not provided.	
TECO Peoples Gas	• TECO Peoples Gas maintains a 6" gas main from SE Gaines Ave to SE Ault Ave on the south side of cove road. The 6" gas main crosses Cove Road on west side of SE Ault Ave continunig north on SE Ault Ave. • TECO has one 8" gas main that travels south on the east side of SE Willoughby Blvd and then travels east on the north side of Cove Rd until it transitions into a 4" main and is capped.	

Appendix A - Utility Facilities

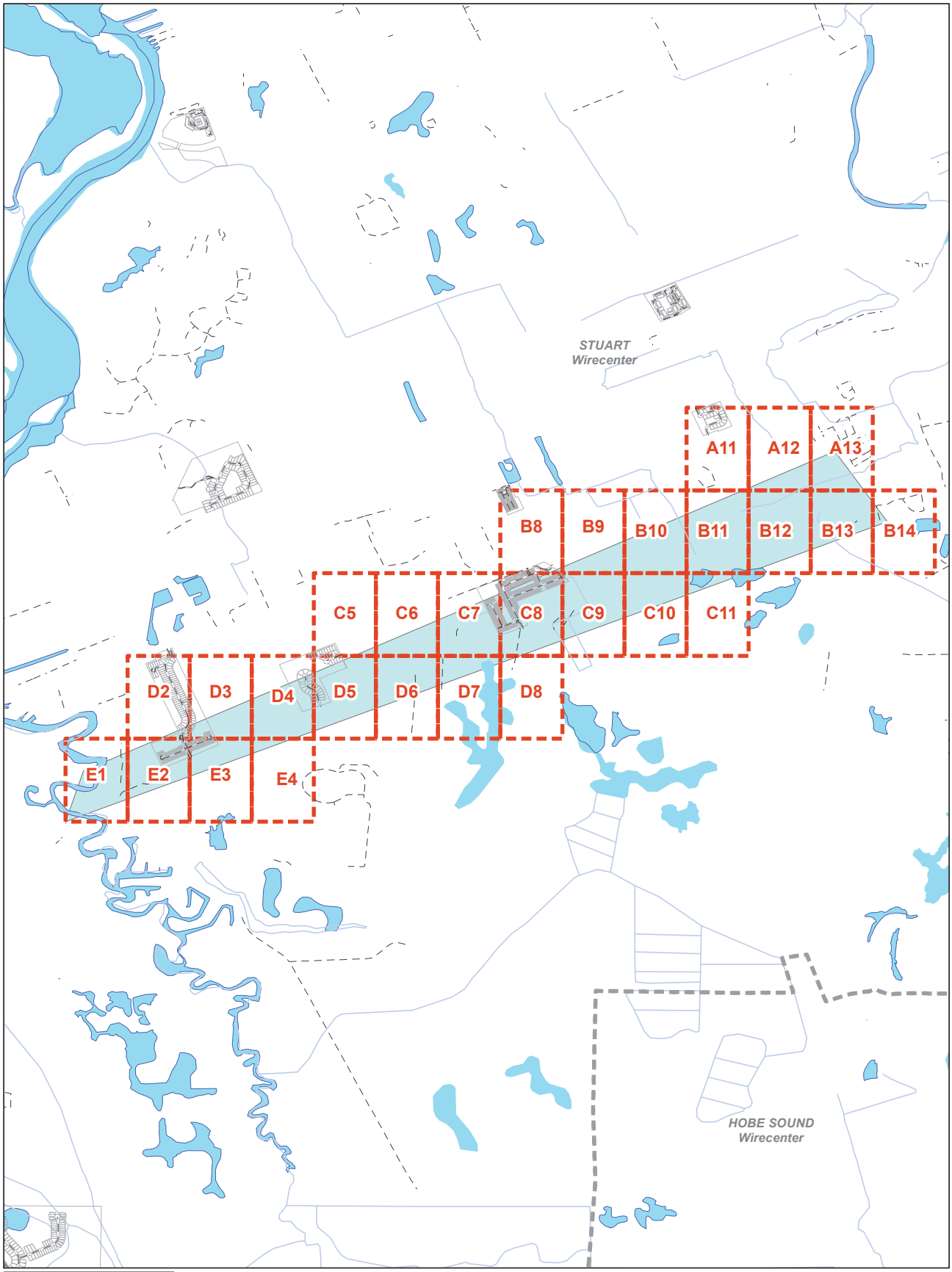
AT&T Distribution

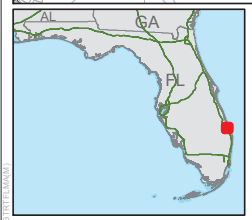
External Map Request for Att

Cove Rd Request Project

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Index Map





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Mapping Index

Wirecenter Boundary

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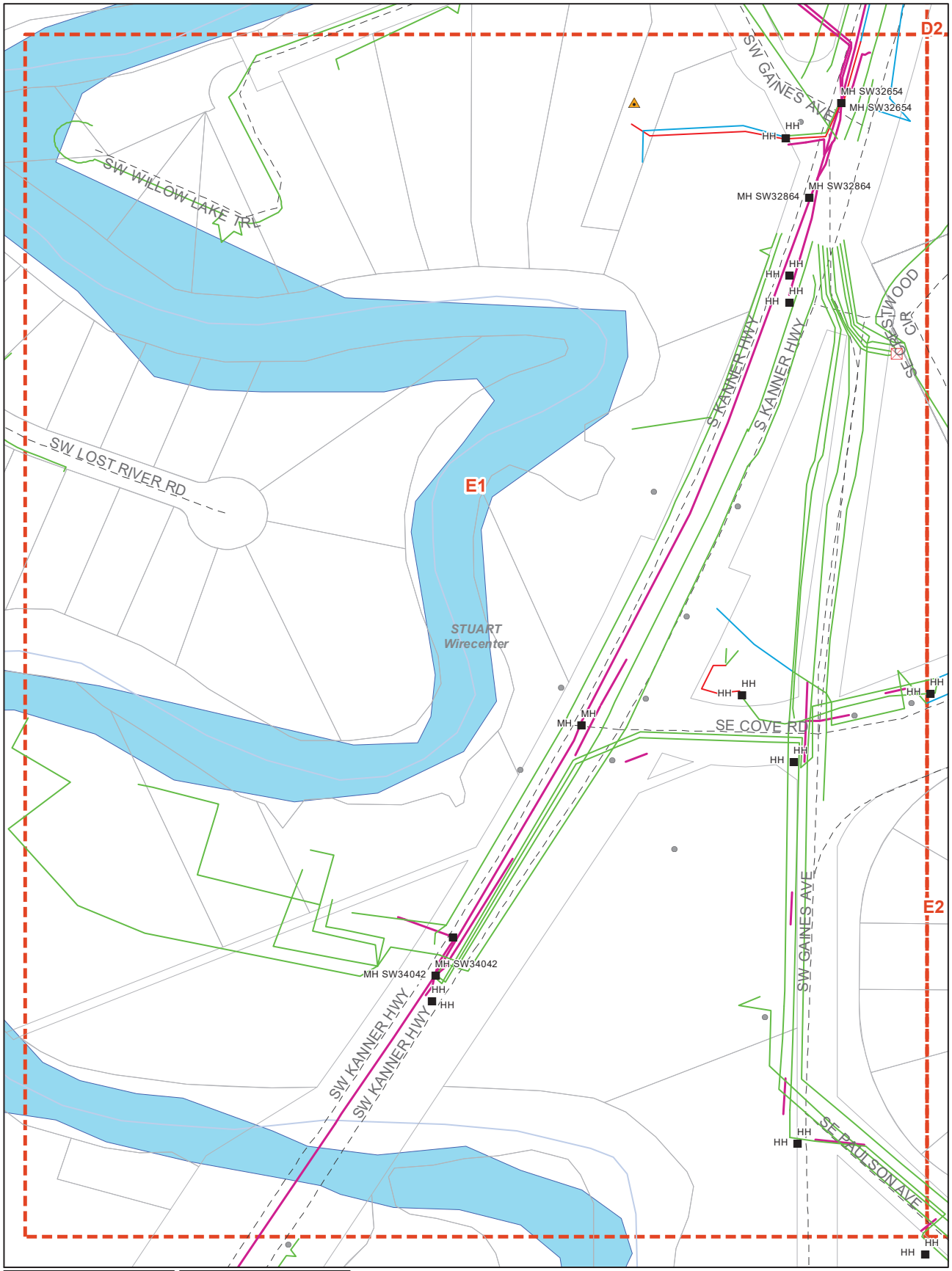
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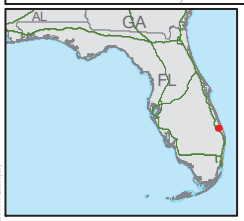
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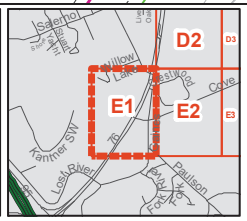
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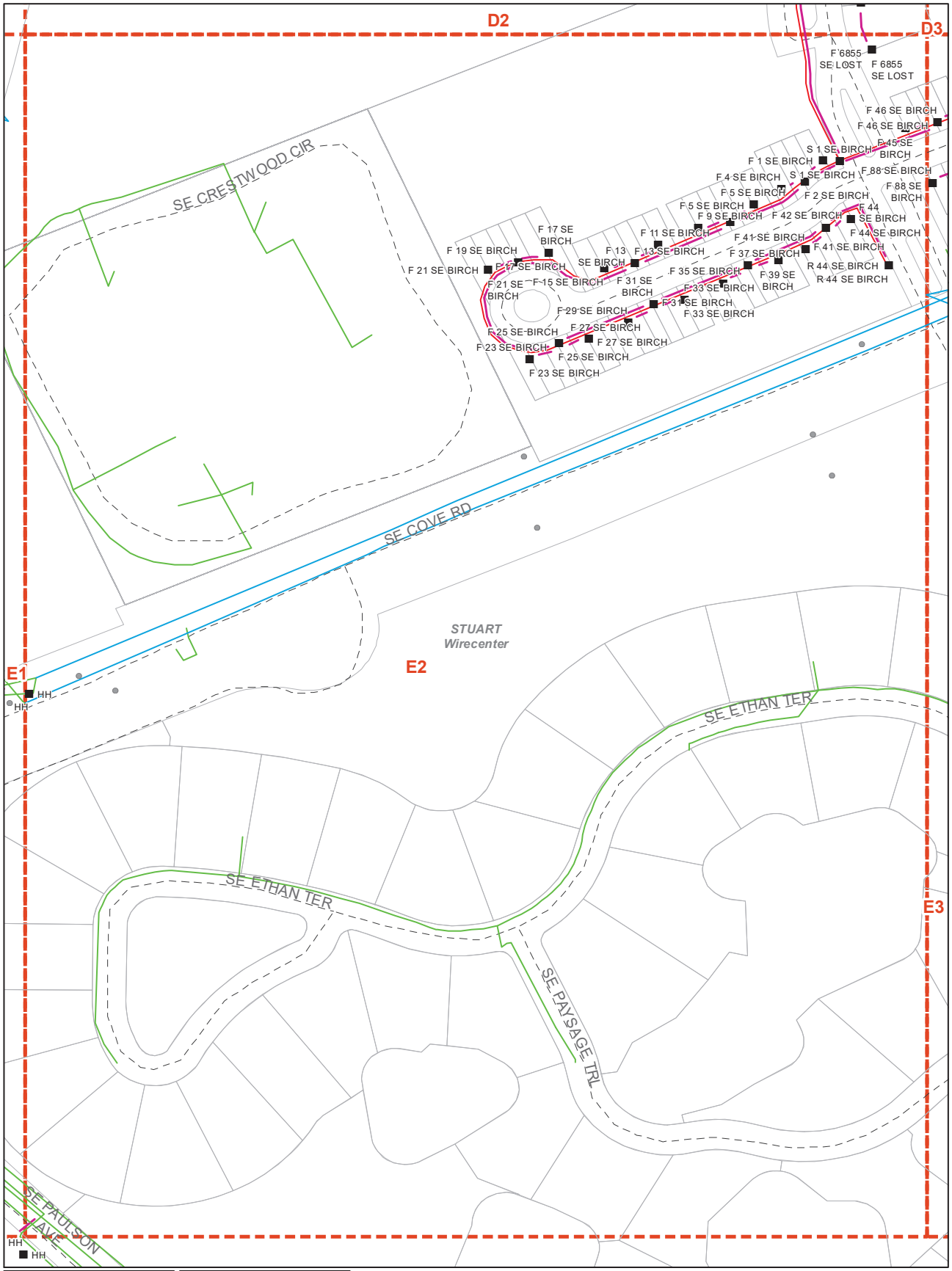
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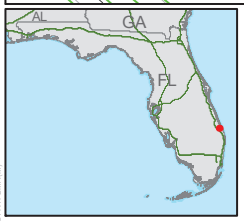
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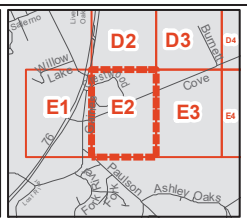
Cove Rd Request Project

Date: 3/28/2024

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1:1,820

N

- Poles
- Manholes
- Aerial
- Building
- Buried
- Underground
- Floating
- Submarine
- Other
- Conduit
- Street Centerlines
- Mapping Index
- Wirecenter Boundary
- Parcels

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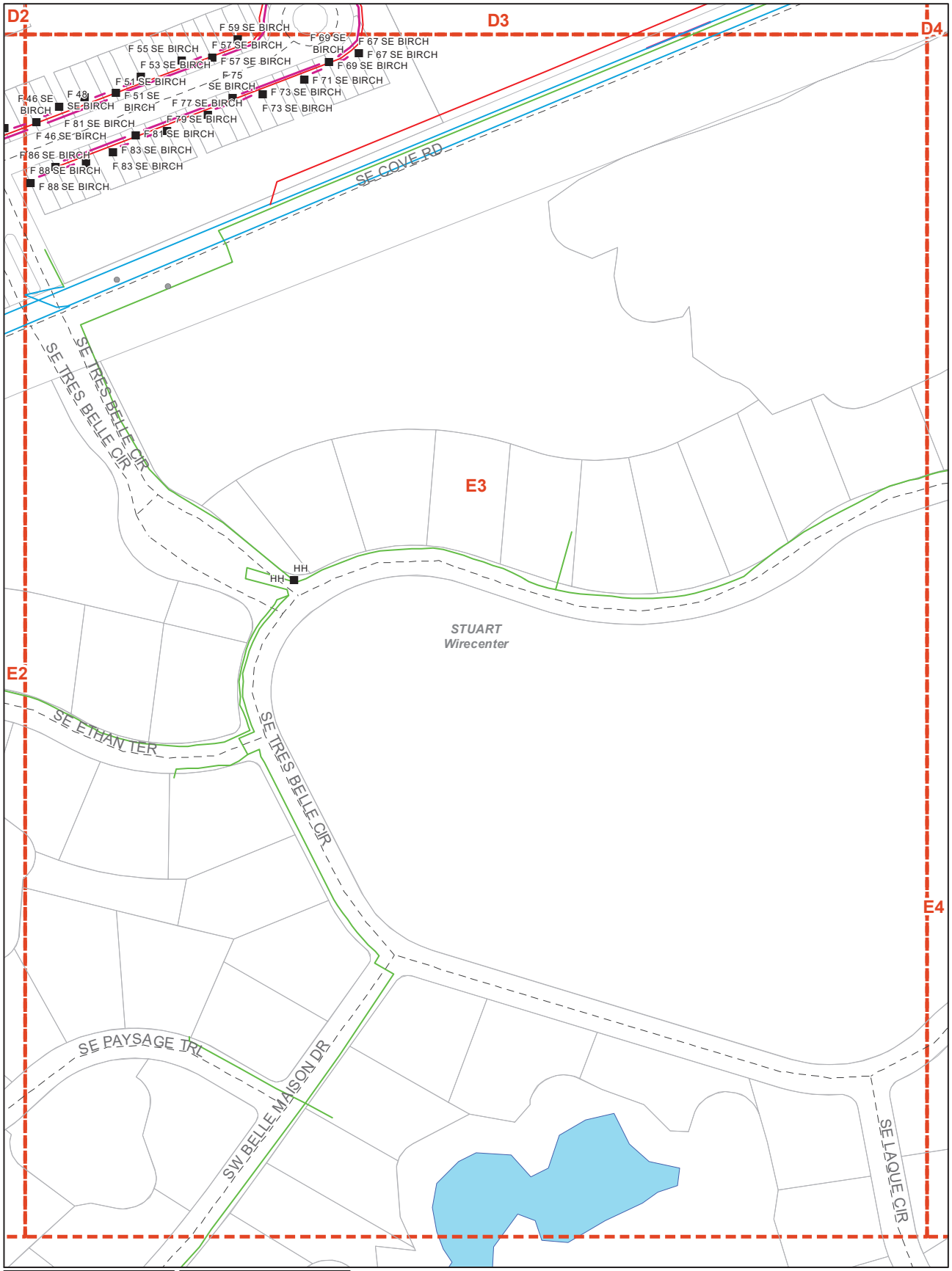
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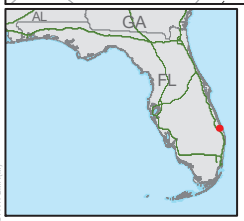
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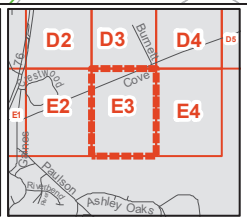
Cove Rd Request Project

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1:1,820

N

- Poles
- Manholes
- Aerial
- Building
- Buried
- Underground
- Floating
- Submarine
- Other
- Conduit
- Street Centerlines
- Mapping Index
- Wirecenter Boundary
- Parcels

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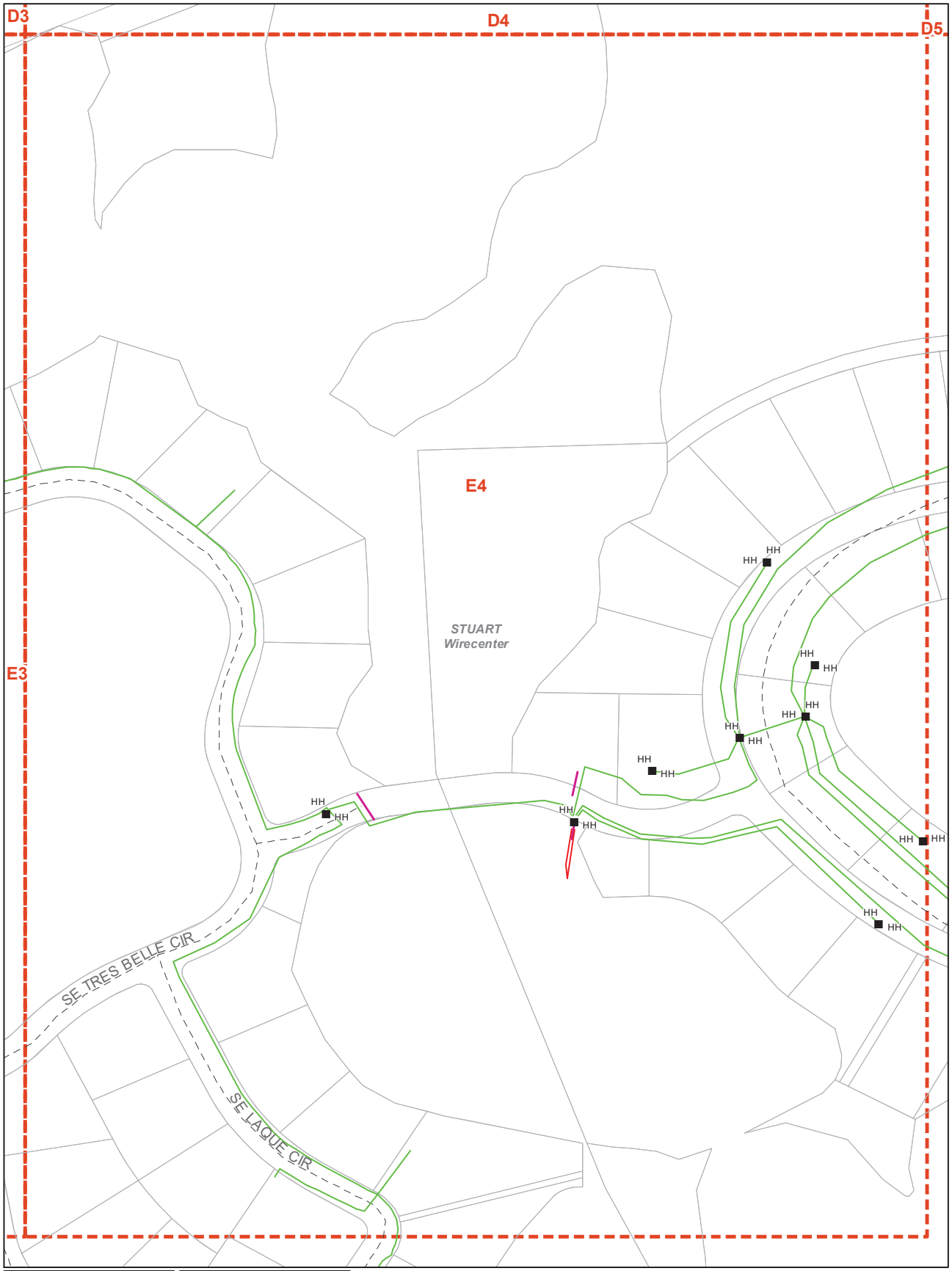
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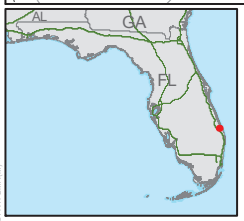
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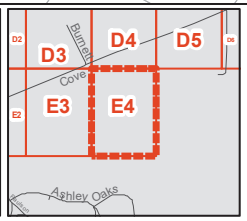
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1:1,820

N

- Manholes
- Aerial
- Building
- Buried
- Underground
- Floating
- Submarine
- Other
- Conduit
- Street Centerlines
- Mapping Index
- Wirecenter Boundary
- Parcels

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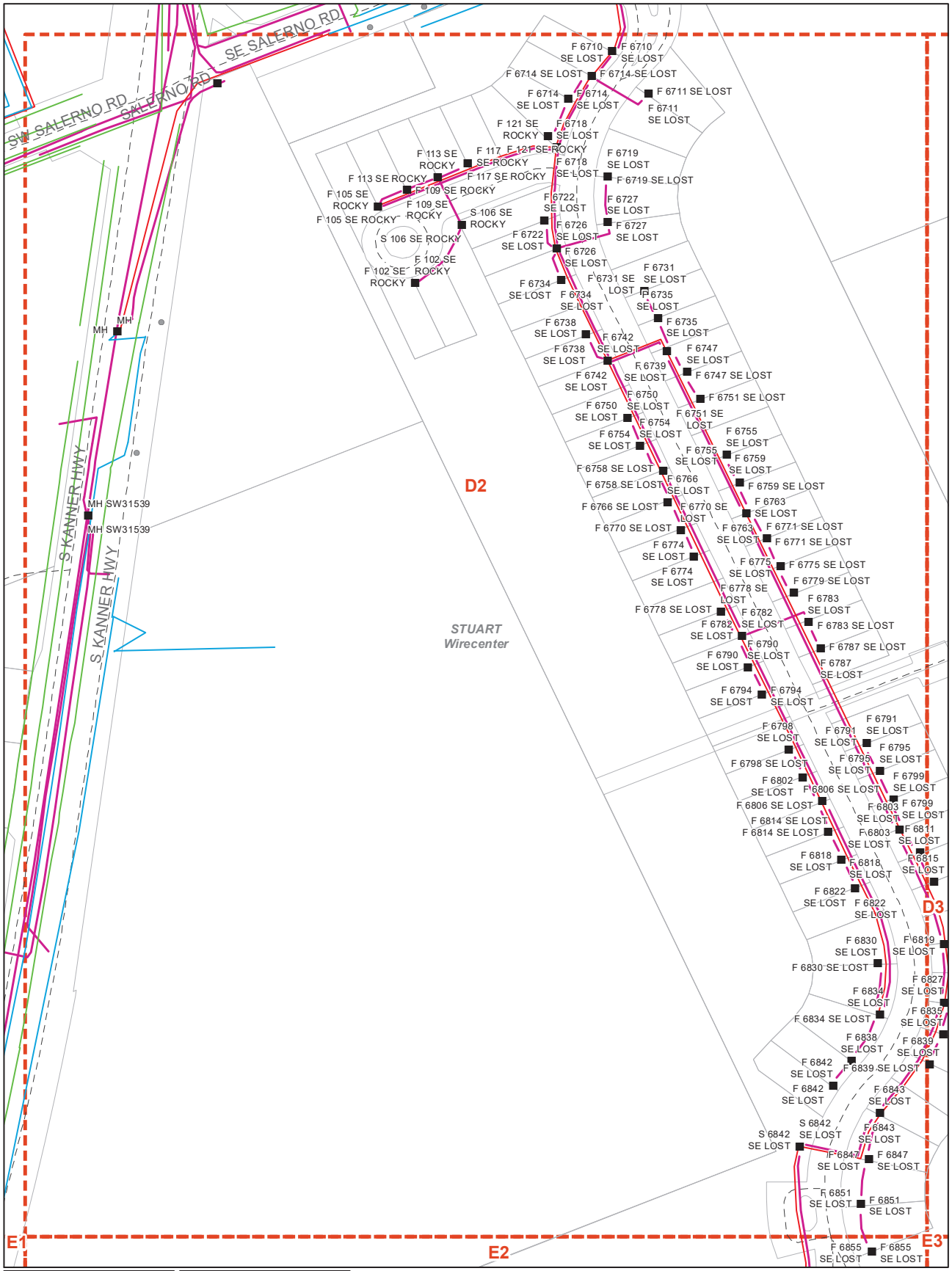
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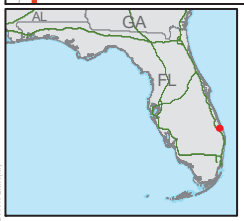
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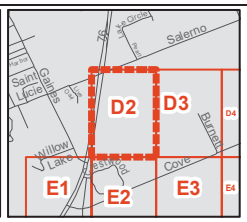
Cove Rd Request Project

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1:1,820

N

Poles
Manholes
Aerial
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Buried
Underground
Floating
Submarine
Other
Conduit
Street Centerlines
Mapping Index
Wirecenter Boundary
Parcels

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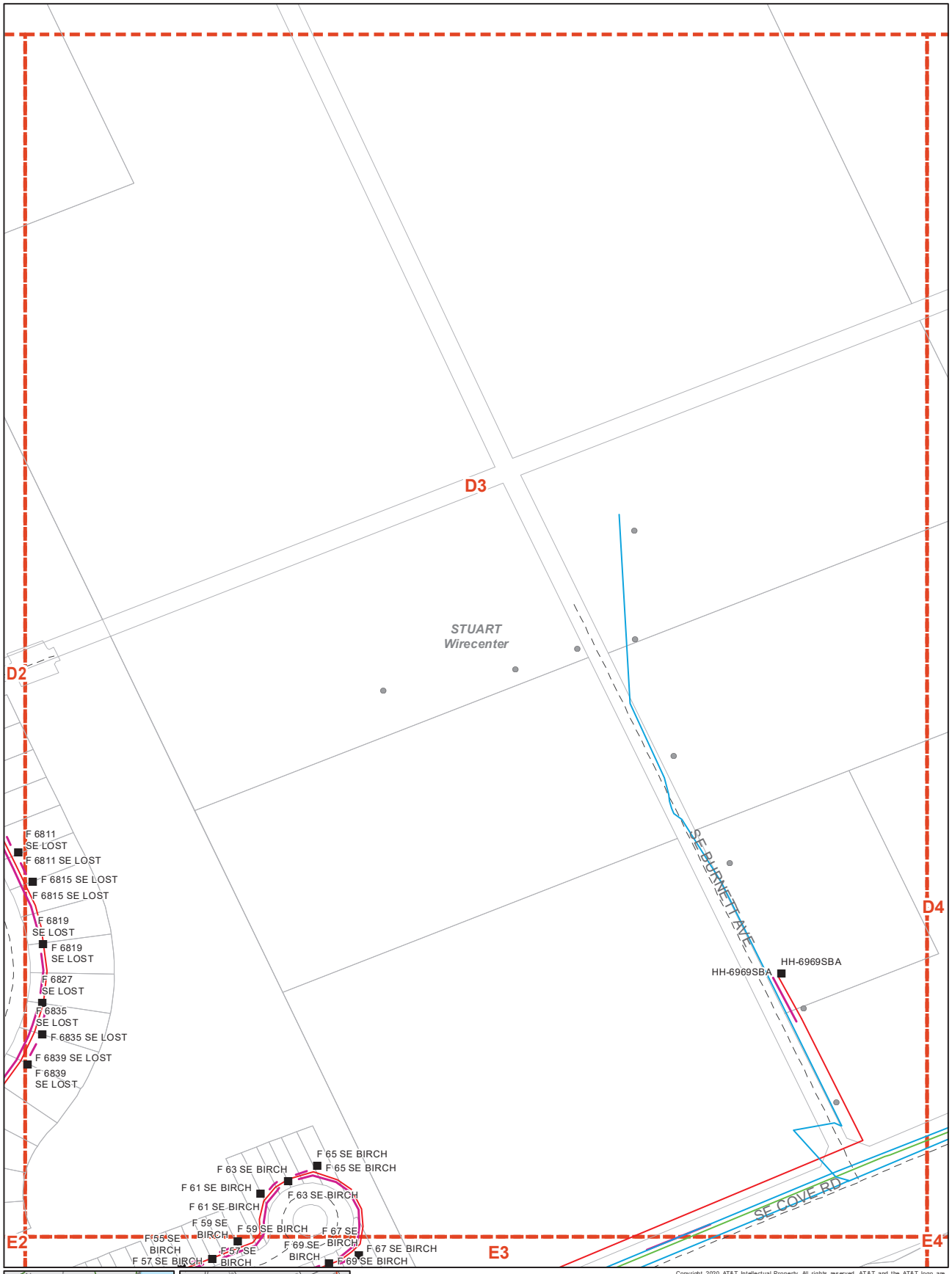
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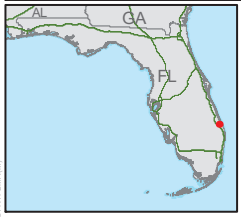
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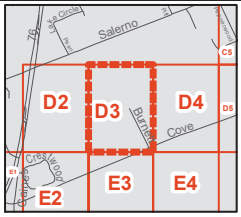
Cove Rd Request Project

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1:1,820

N

- Poles
- Manholes
- Aerial
- Building
- Buried
- Underground
- Floating
- Submarine
- Other
- Conduit
- Street Centerlines
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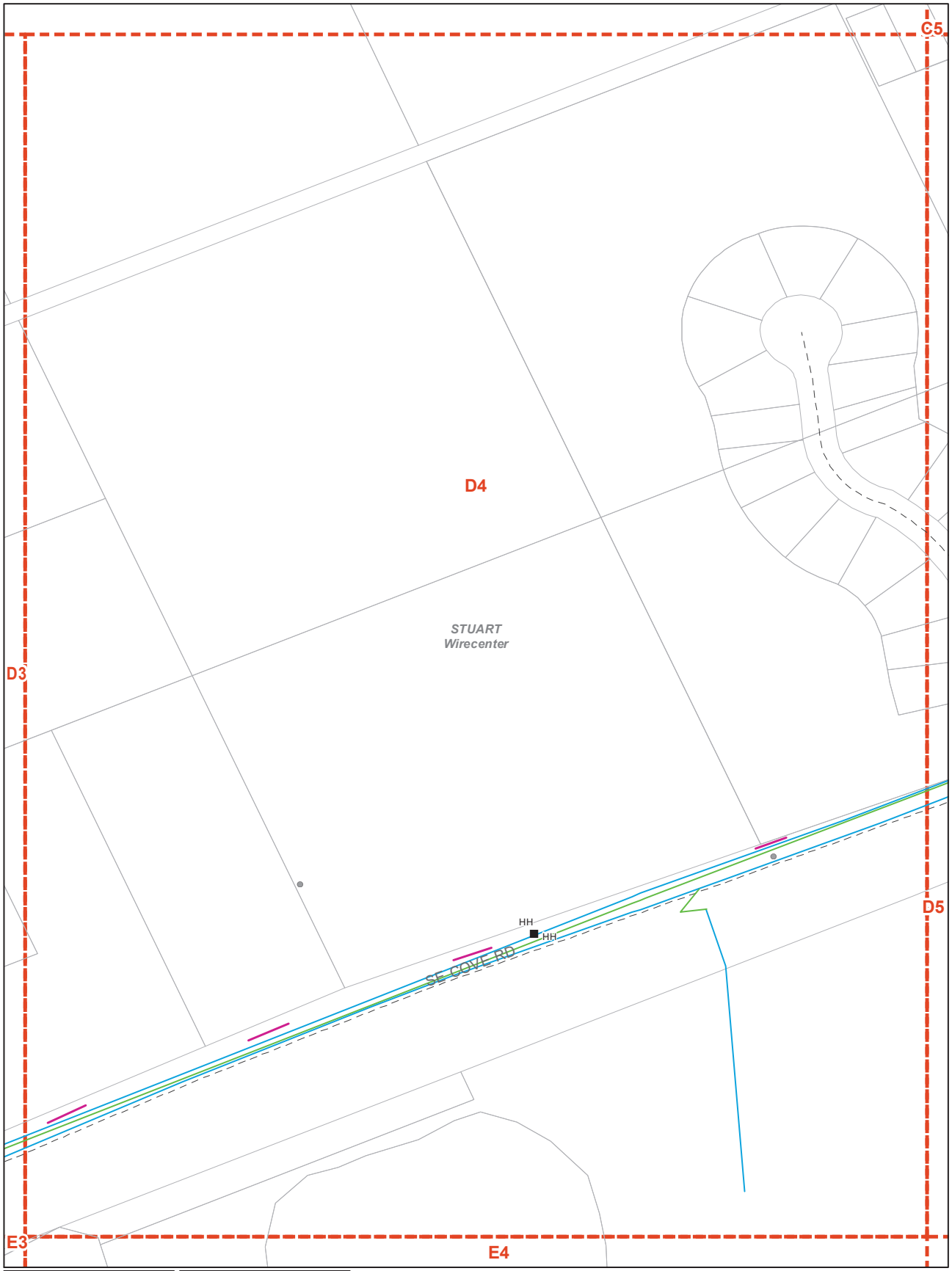
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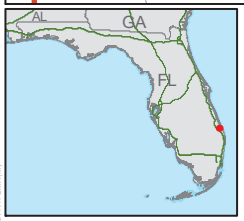
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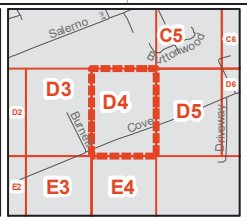
Cove Rd Request Project

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1:1,820

N

- Poles
- Manholes
- Aerial
- Building
- Buried
- Underground
- Floating
- Submarine
- Other
- Conduit
- Street Centerlines
- Mapping Index
- Wirecenter Boundary
- Parcels

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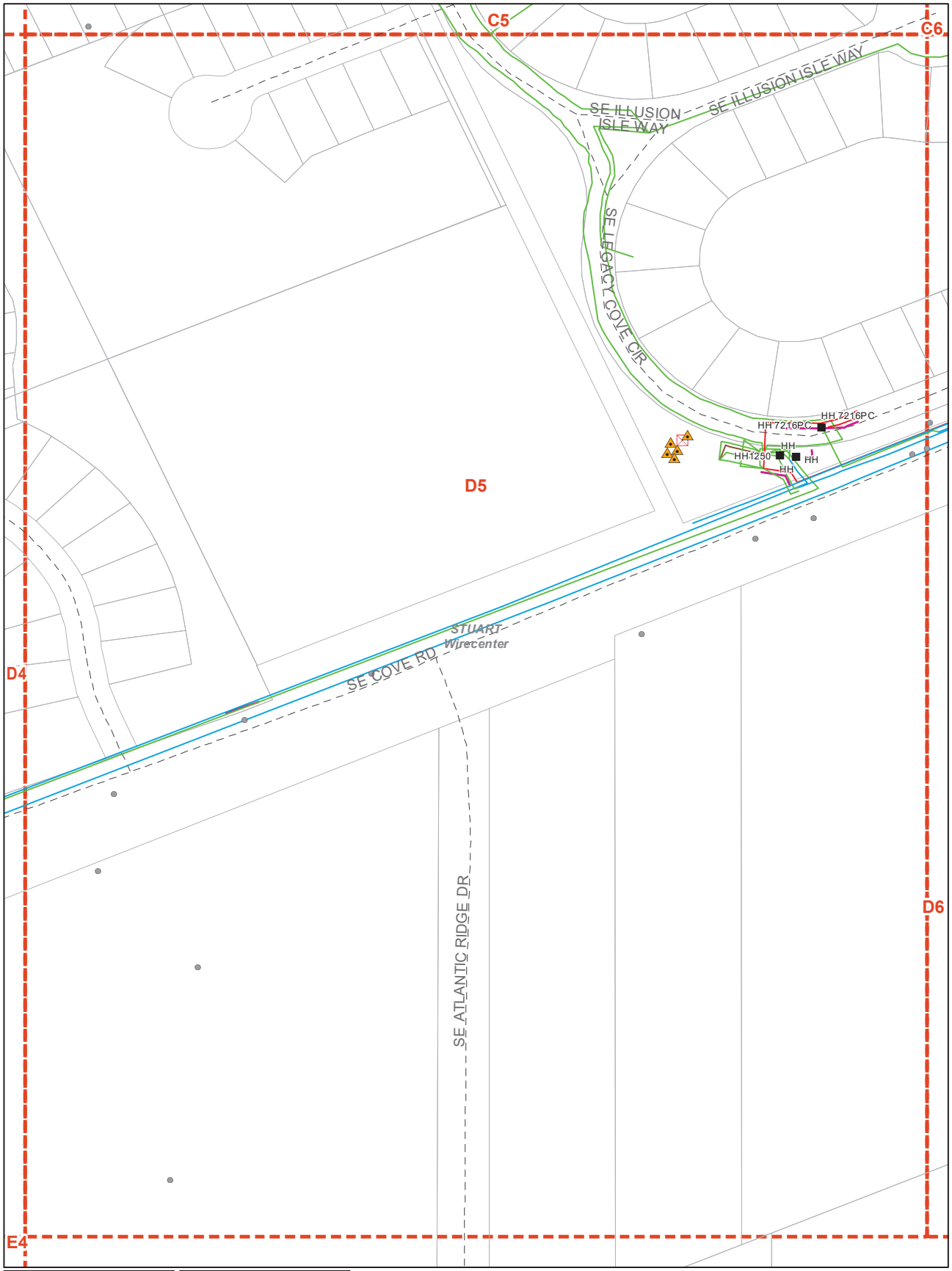
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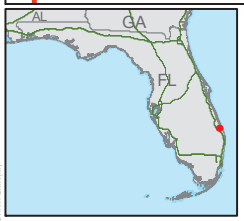
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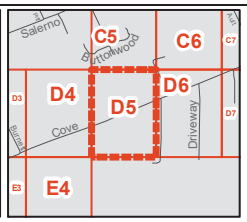
Cove Rd Request Project

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1:1,820

N

- Poles
- Remote Terminals
- SAIs
- Manholes
- Aerial
- Building
- Buried
- Underground
- Floating
- Submarine
- Other
- Conduit
- Street Centerlines
- Mapping Index
- Wirecenter Boundary
- Parcels

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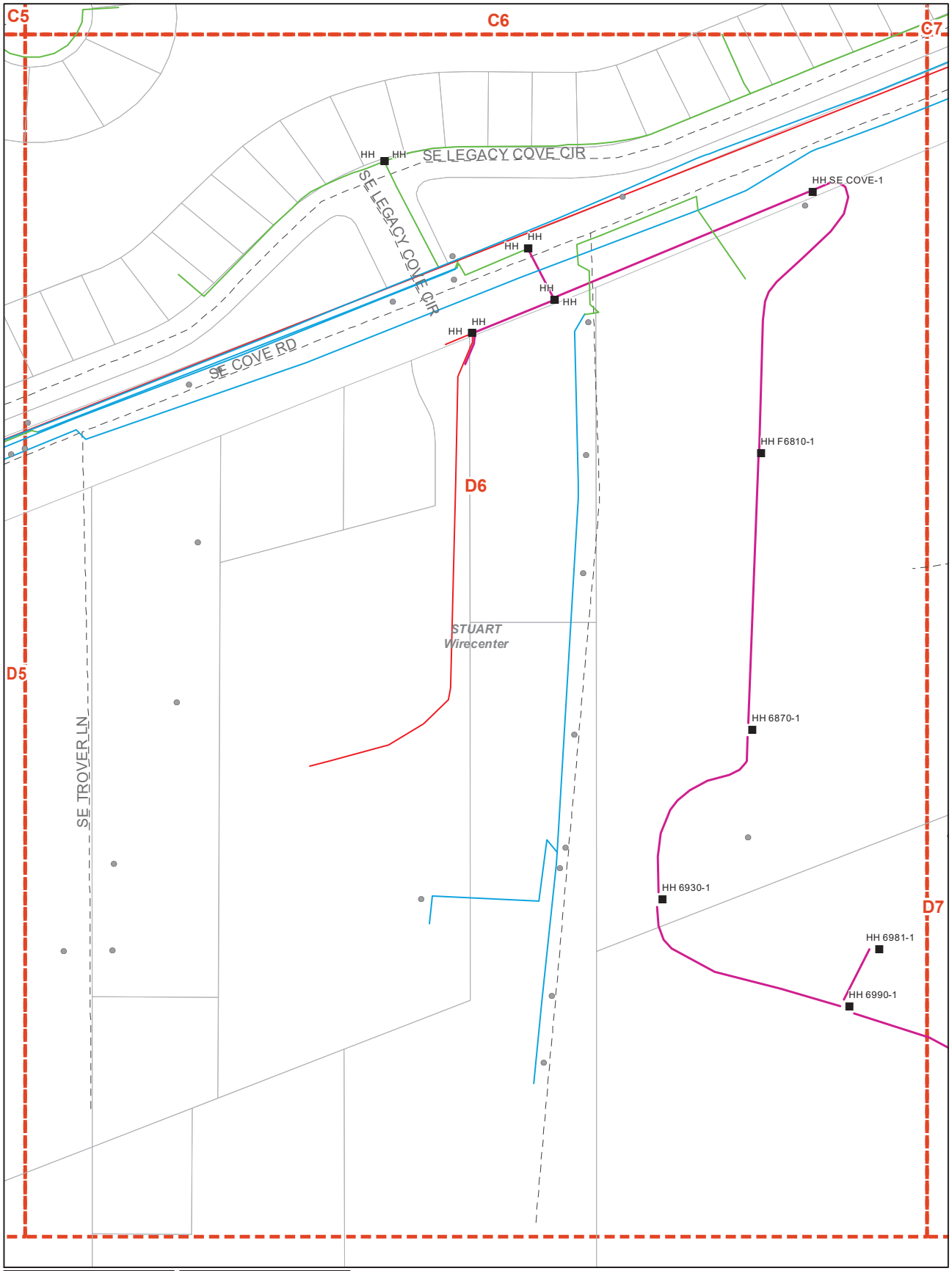
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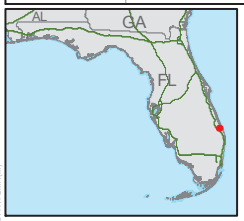
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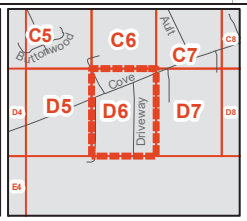
Cove Rd Request Project

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- Poles
- Manholes
- Aerial
- Building
- Buried
- Underground
- Floating
- Submarine
- Other
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- Parcels

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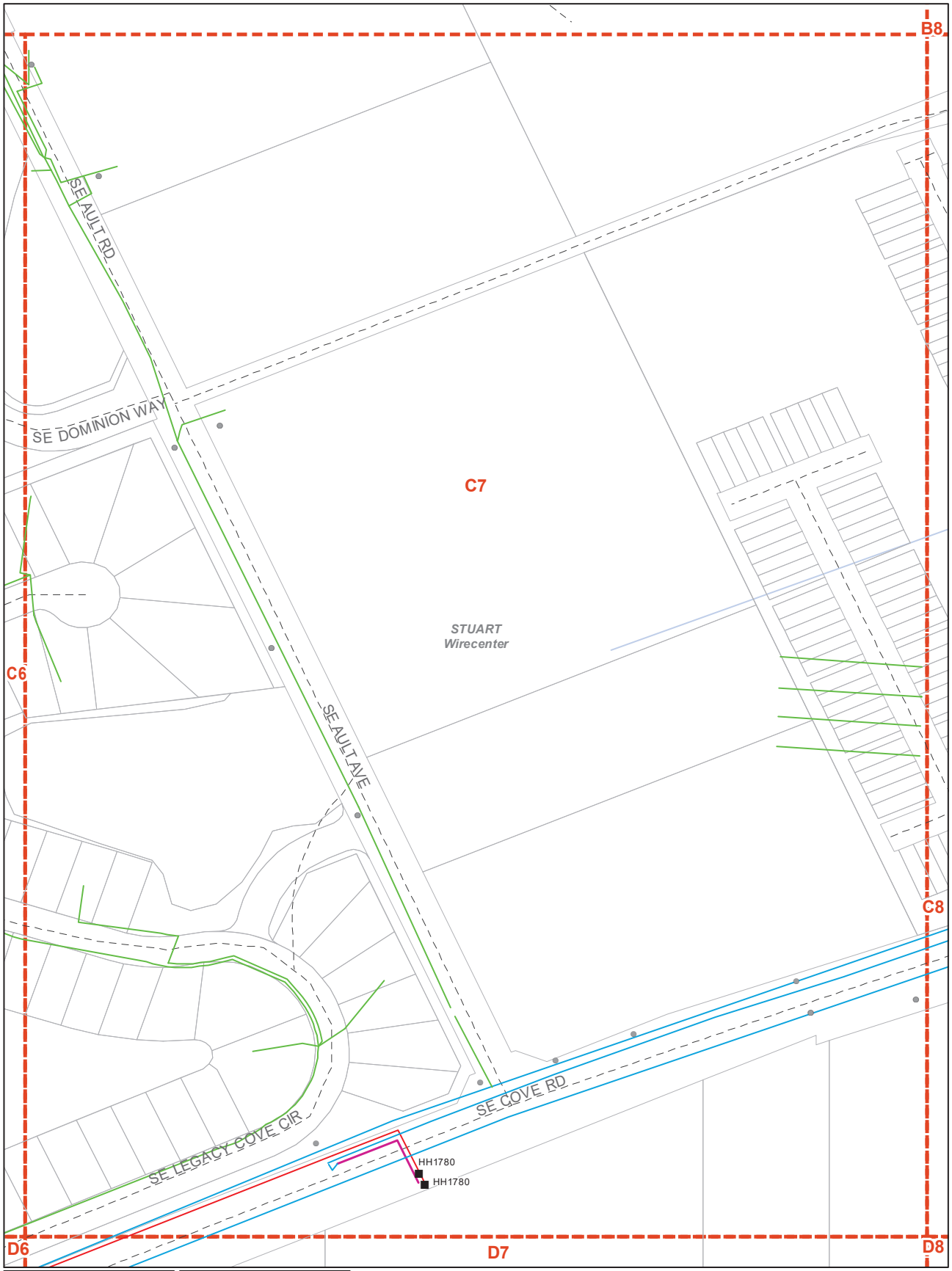
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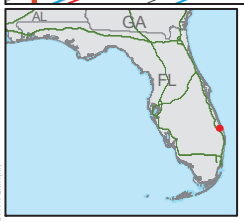
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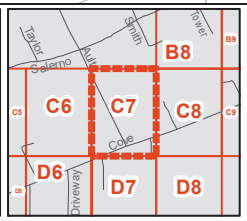
Cove Rd Request Project

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- Poles
- Manholes
- Aerial
- Building
- Buried
- Underground
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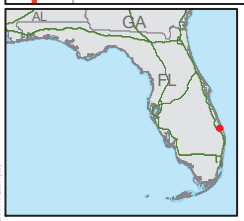
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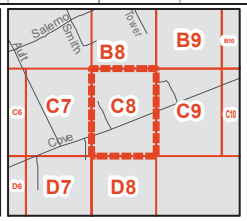
Cove Rd Request Project

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1:1,820

N

- Poles
- Aerial
- Building
- Buried
- Underground
- Floating
- Submarine
- Other
- Street Centerlines
- Mapping Index
- Wirecenter Boundary
- Parcels

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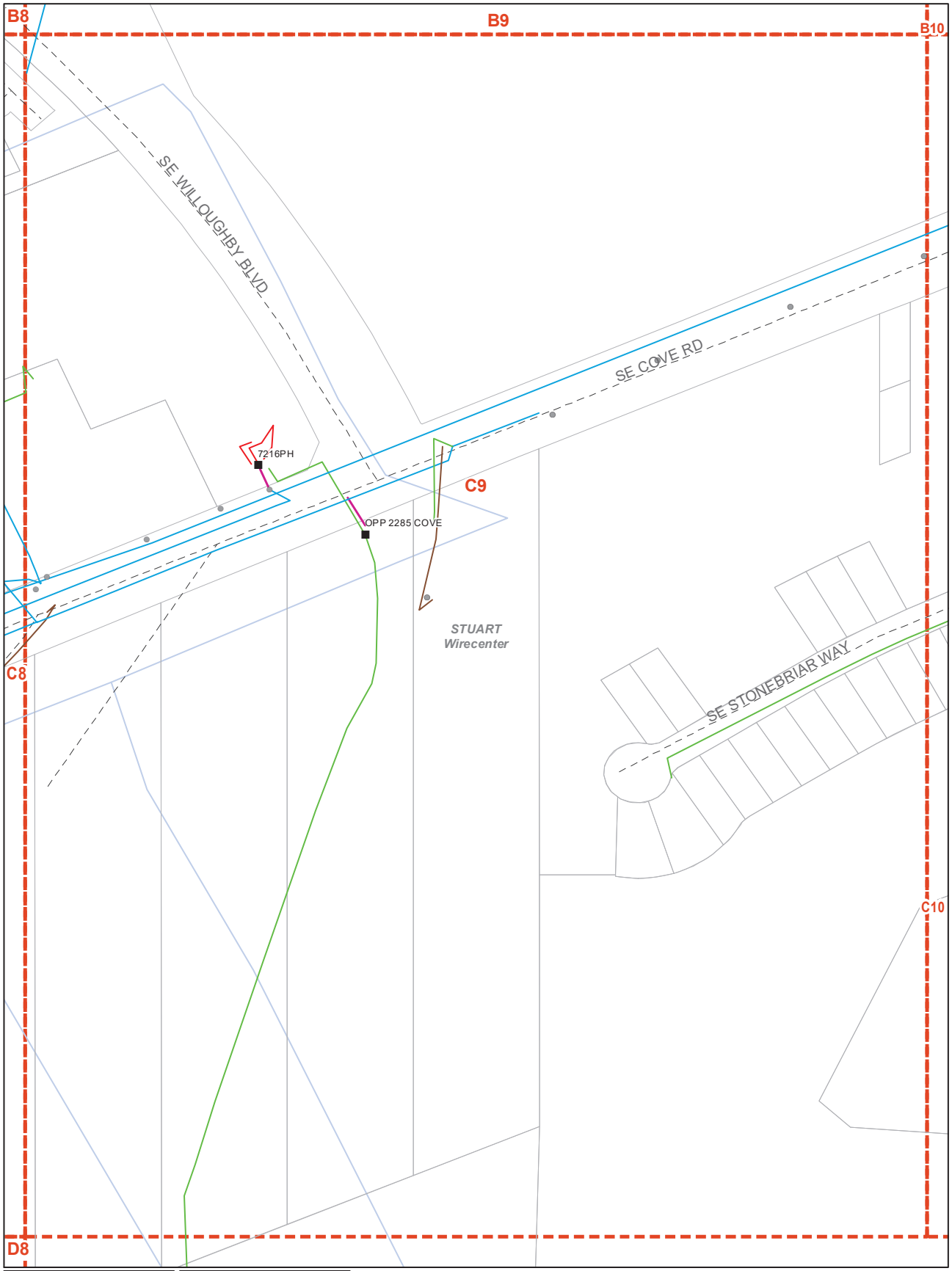
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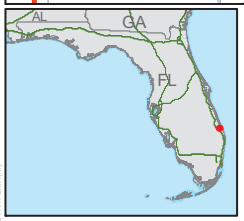
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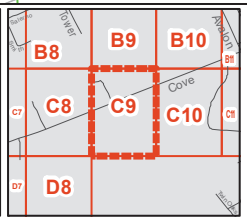
Cove Rd Request Project

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1:1,820

N

- Poles
- Manholes
- Aerial
- Building
- Buried
- Underground
- Floating
- Submarine
- Other
- Conduit
- Street Centerlines
- Mapping Index
- Wirecenter Boundary
- Parcels

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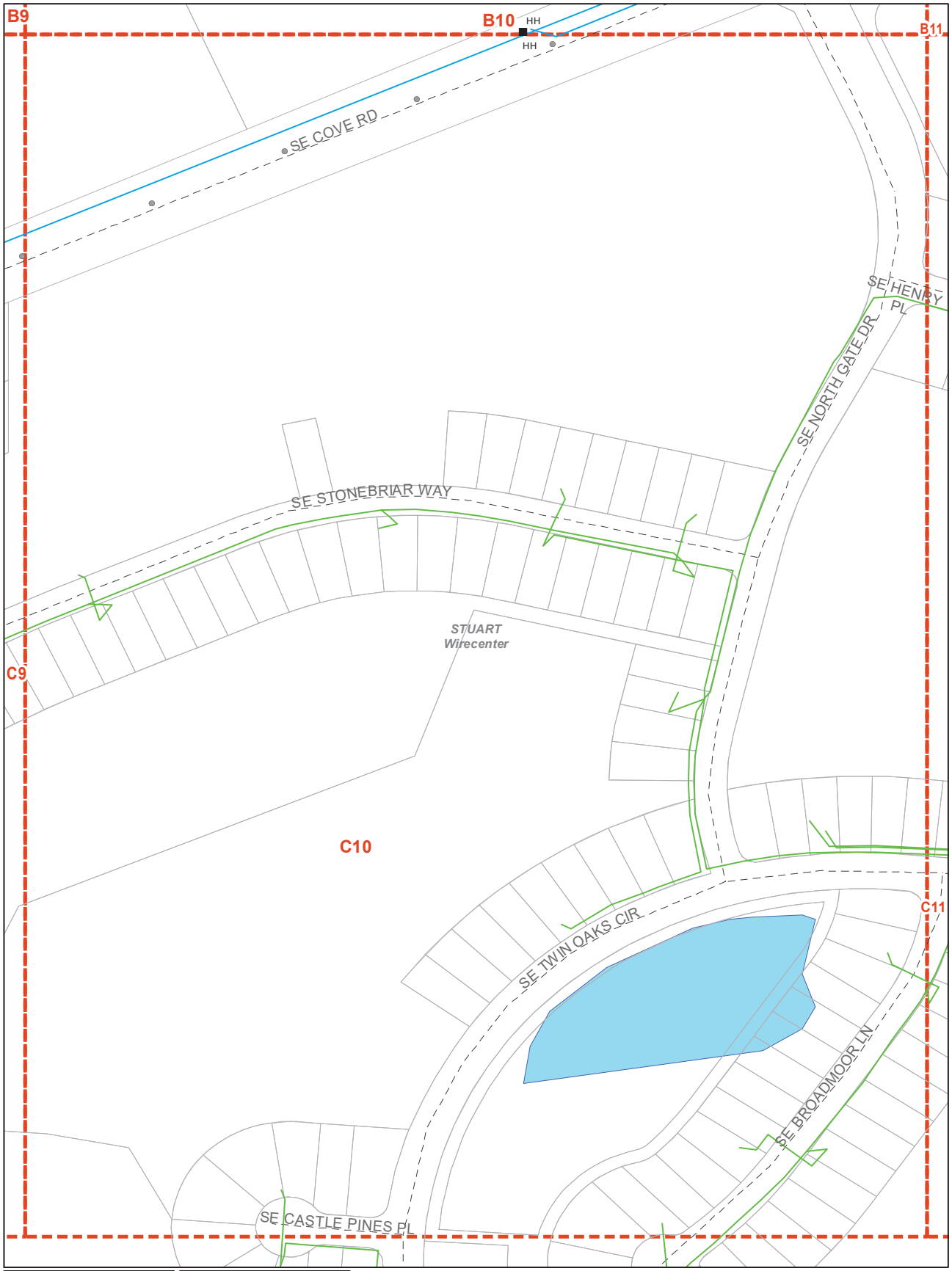
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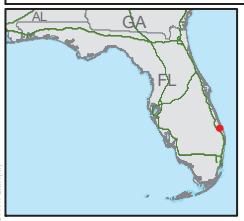
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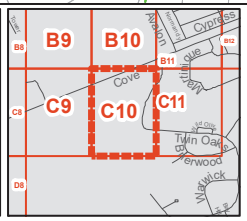
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- Poles
- Manholes
- Aerial
- Building
- Buried
- Underground
- Floating
- Submarine
- Other
- Street Centerlines
- Mapping Index
- Wirecenter Boundary
- Parcels

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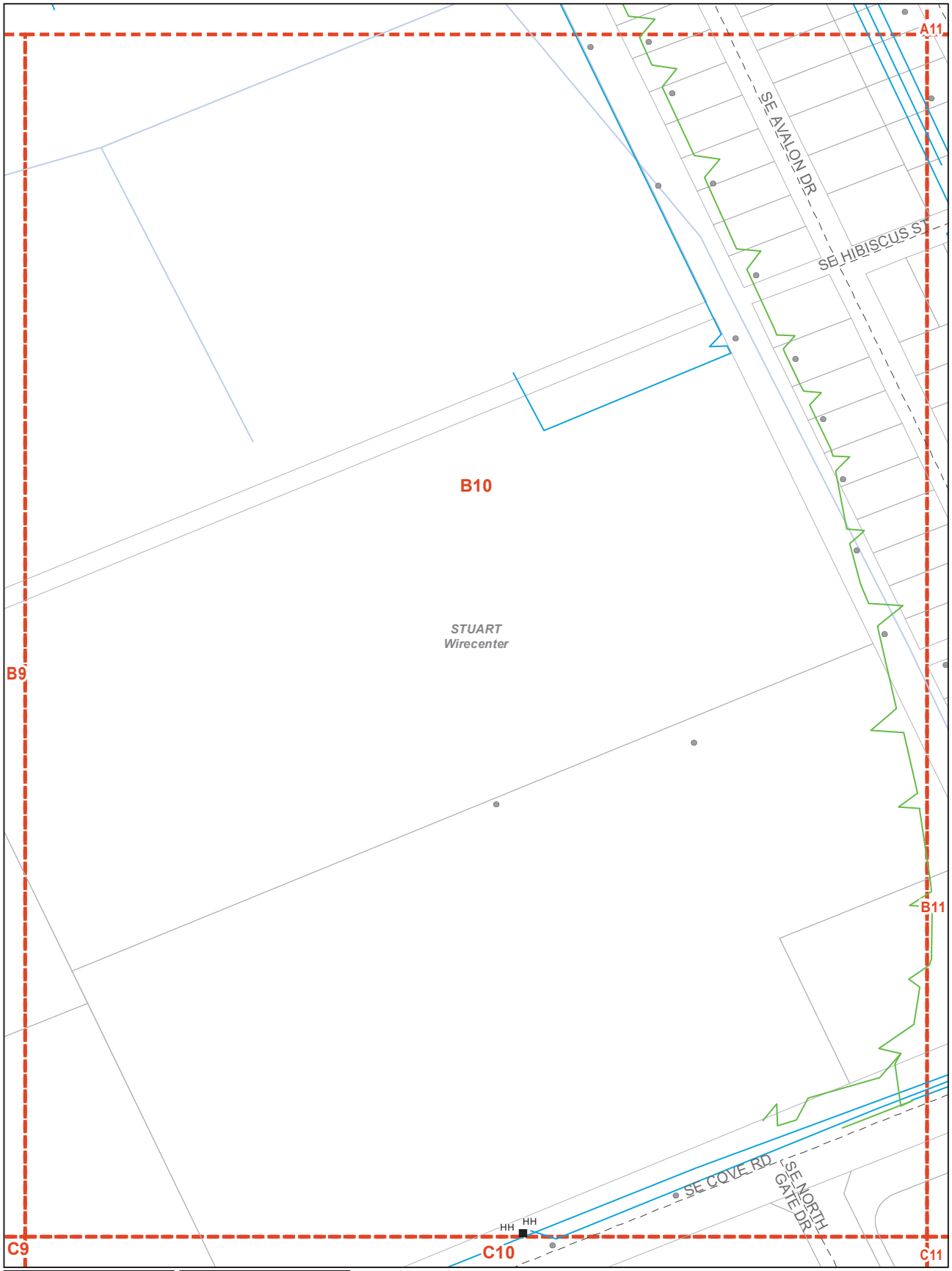
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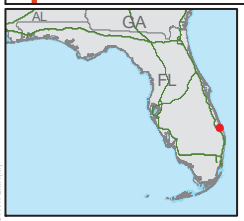
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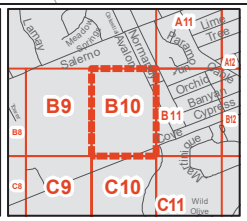
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1:1,820

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- Poles
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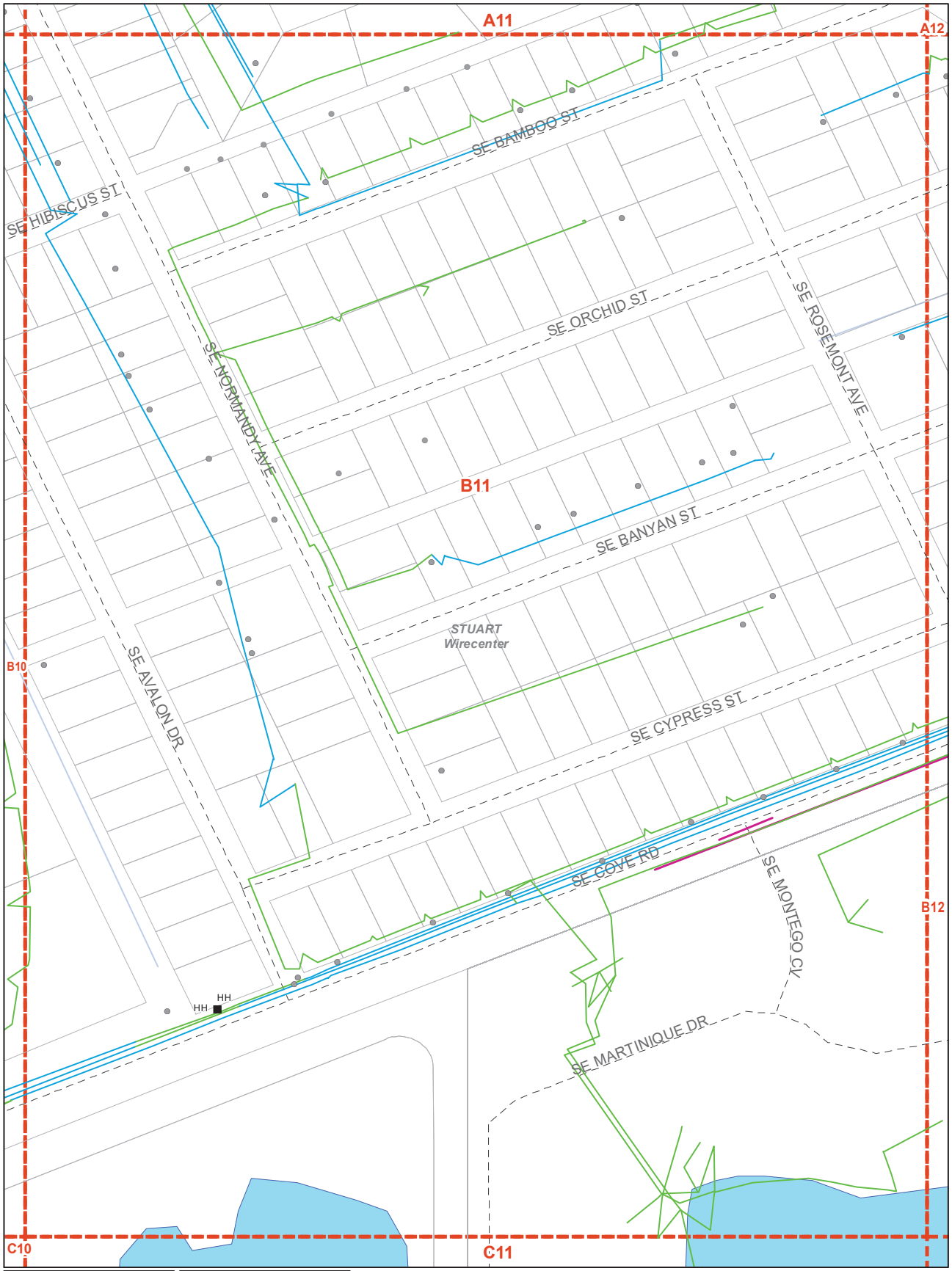
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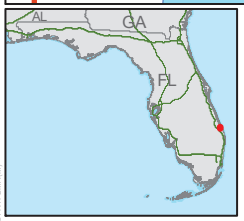
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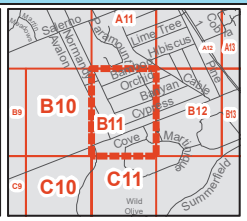
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- Poles
- Manholes
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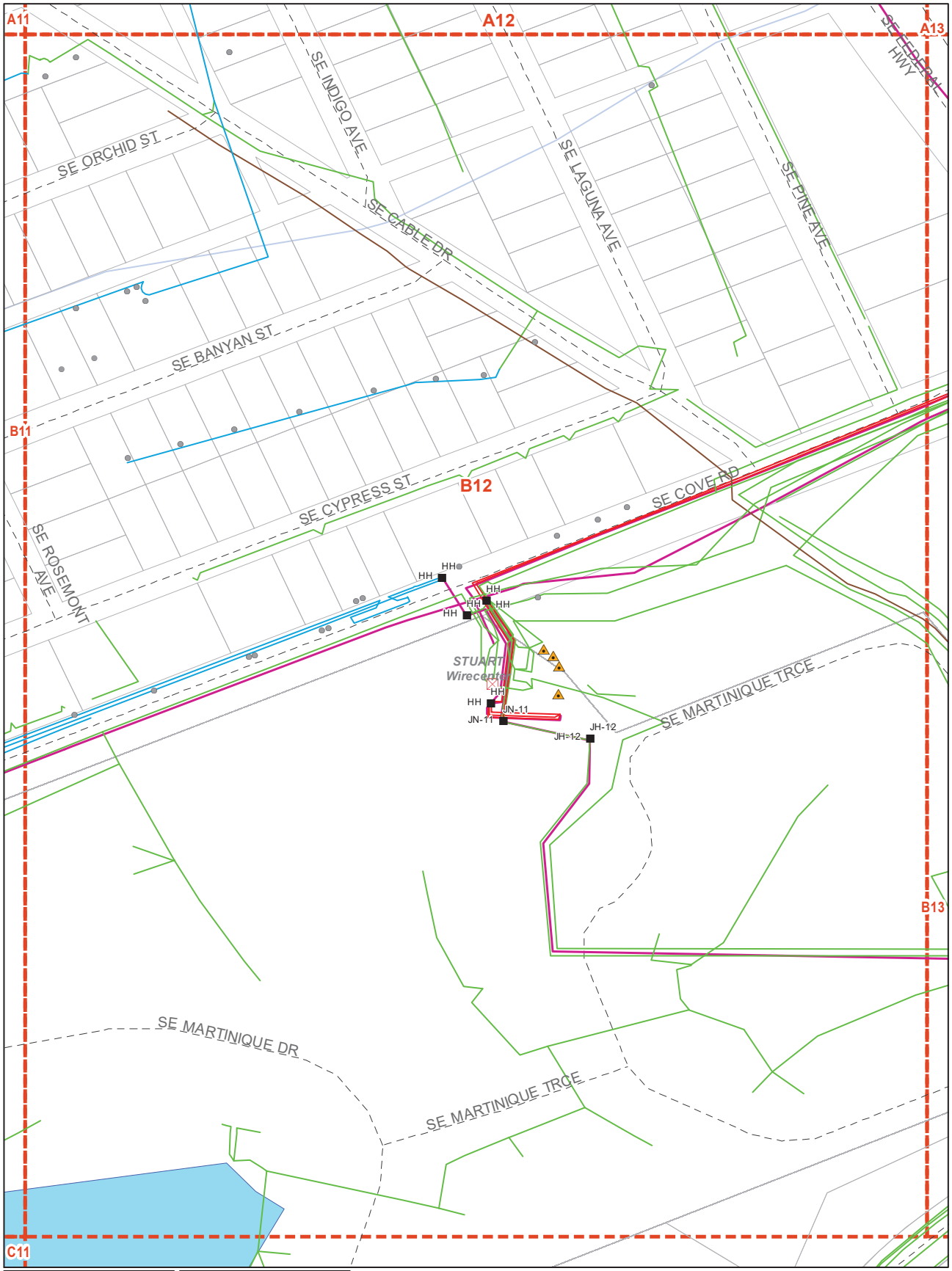
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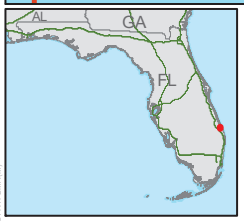
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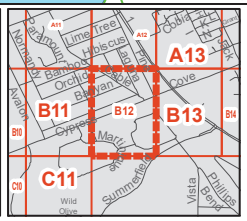
Cove Rd Request Project

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N

- Poles
- Remote Terminals
- SAIs
- Manholes
- Aerial
- Building
- Buried
- Underground
- Floating
- Submarine
- Other
- Conduit
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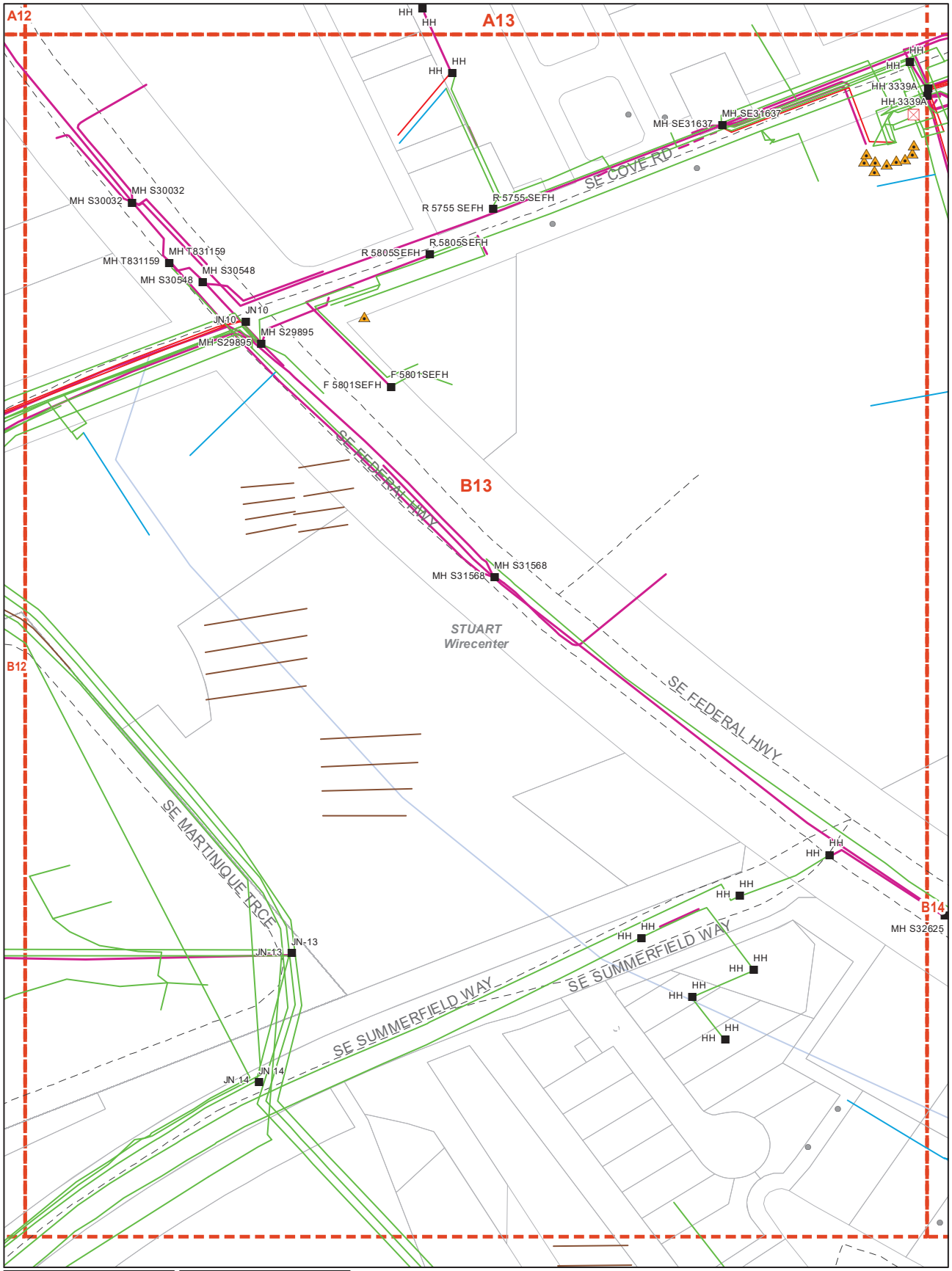
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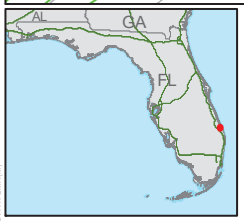
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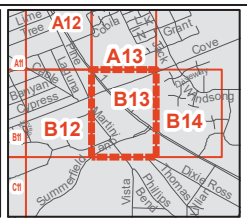
Cove Rd Request Project

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- Poles
- Remote Terminals
- SAIs
- Manholes
- Aerial
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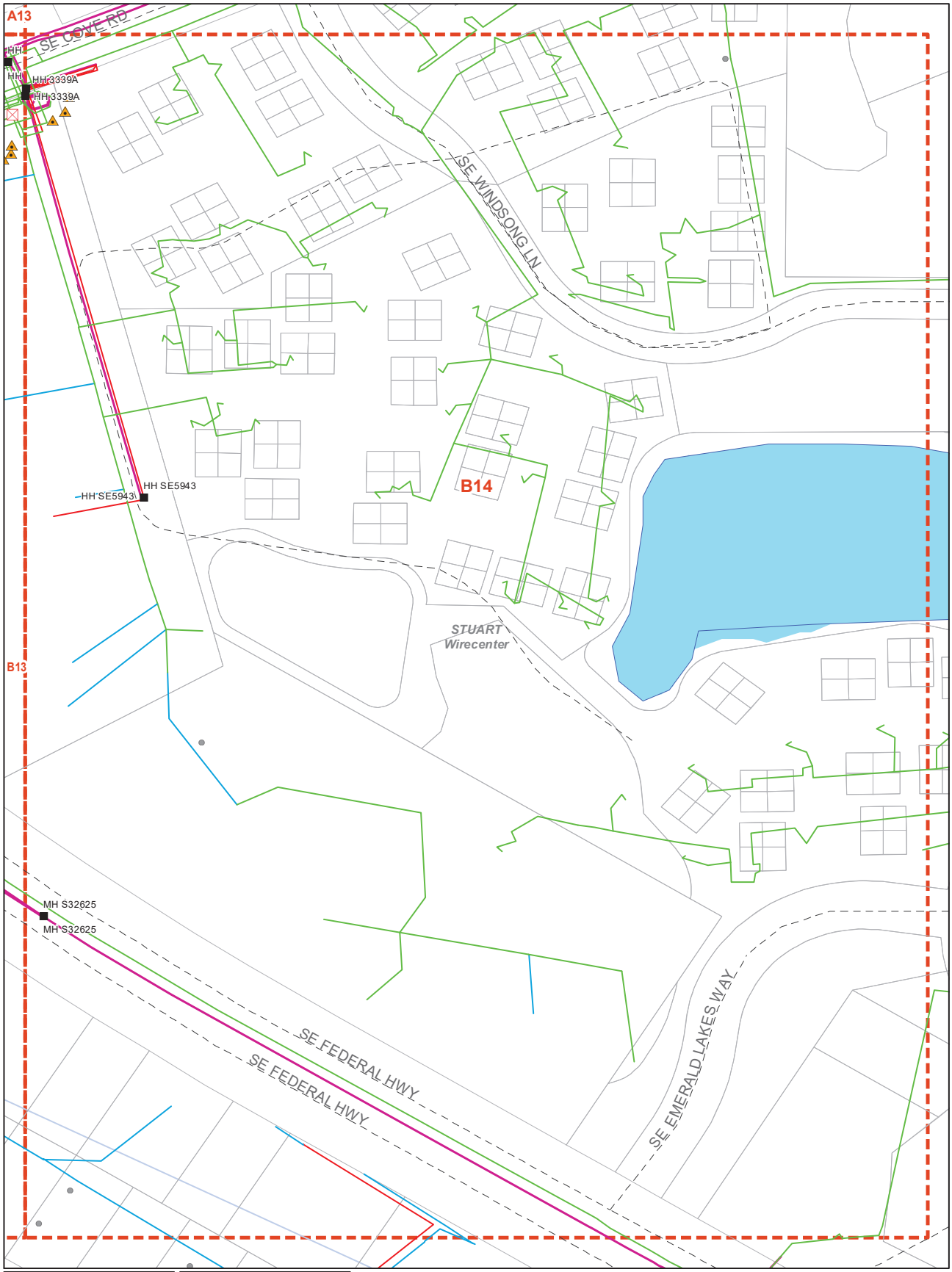
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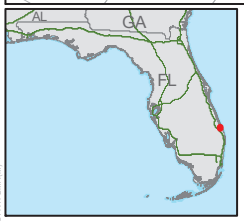
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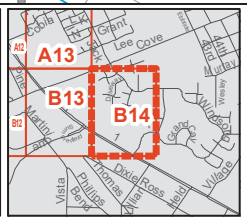
Cove Rd Request Project

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- Poles
- Remote Terminals
- SAIs
- Manholes
- Aerial
- Building
- Buried
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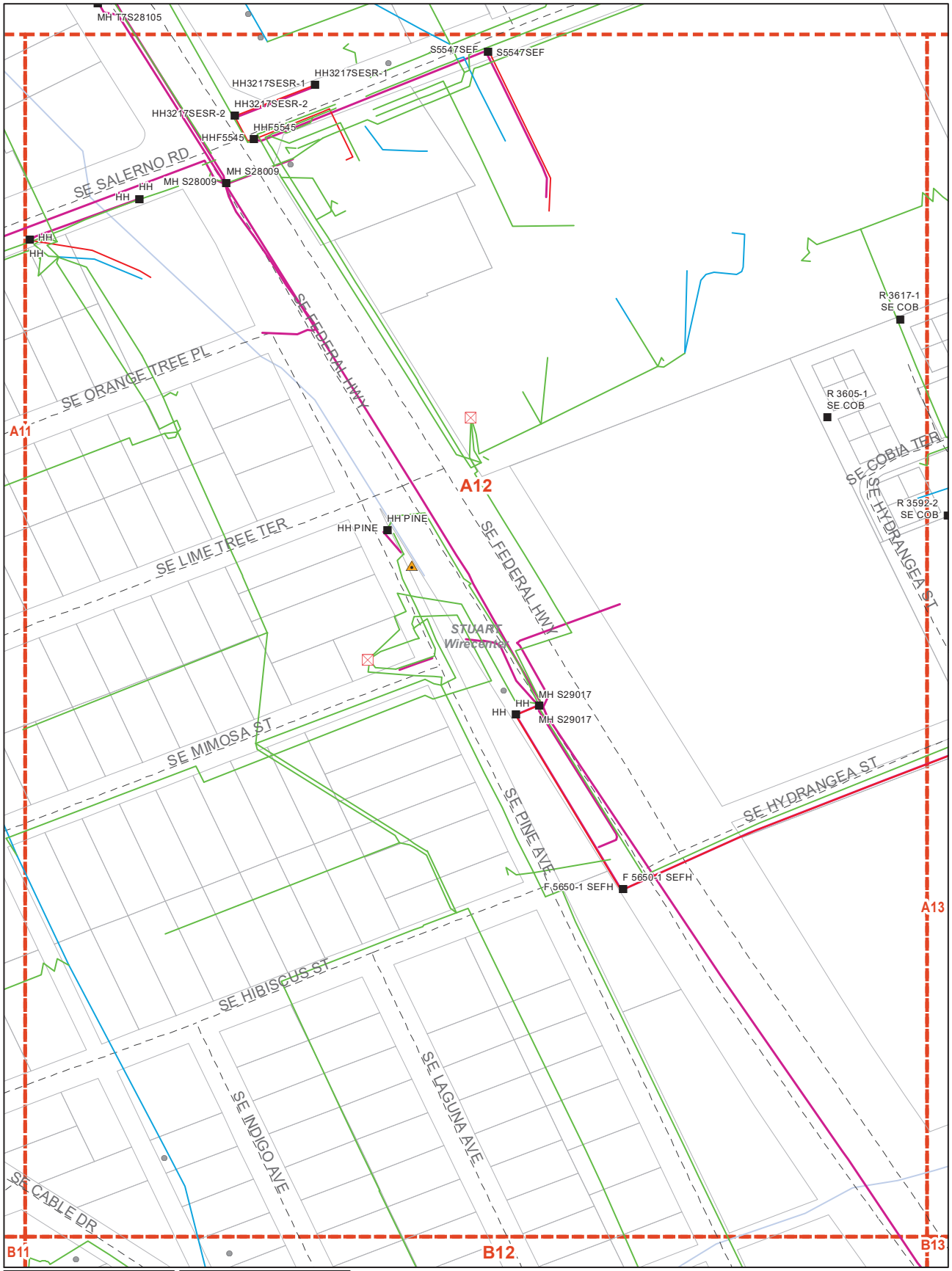
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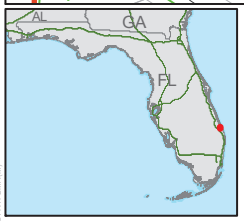
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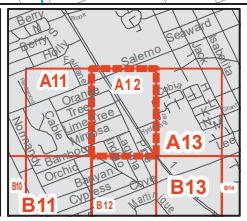
Cove Rd Request Project

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- Poles
- Remote Terminals
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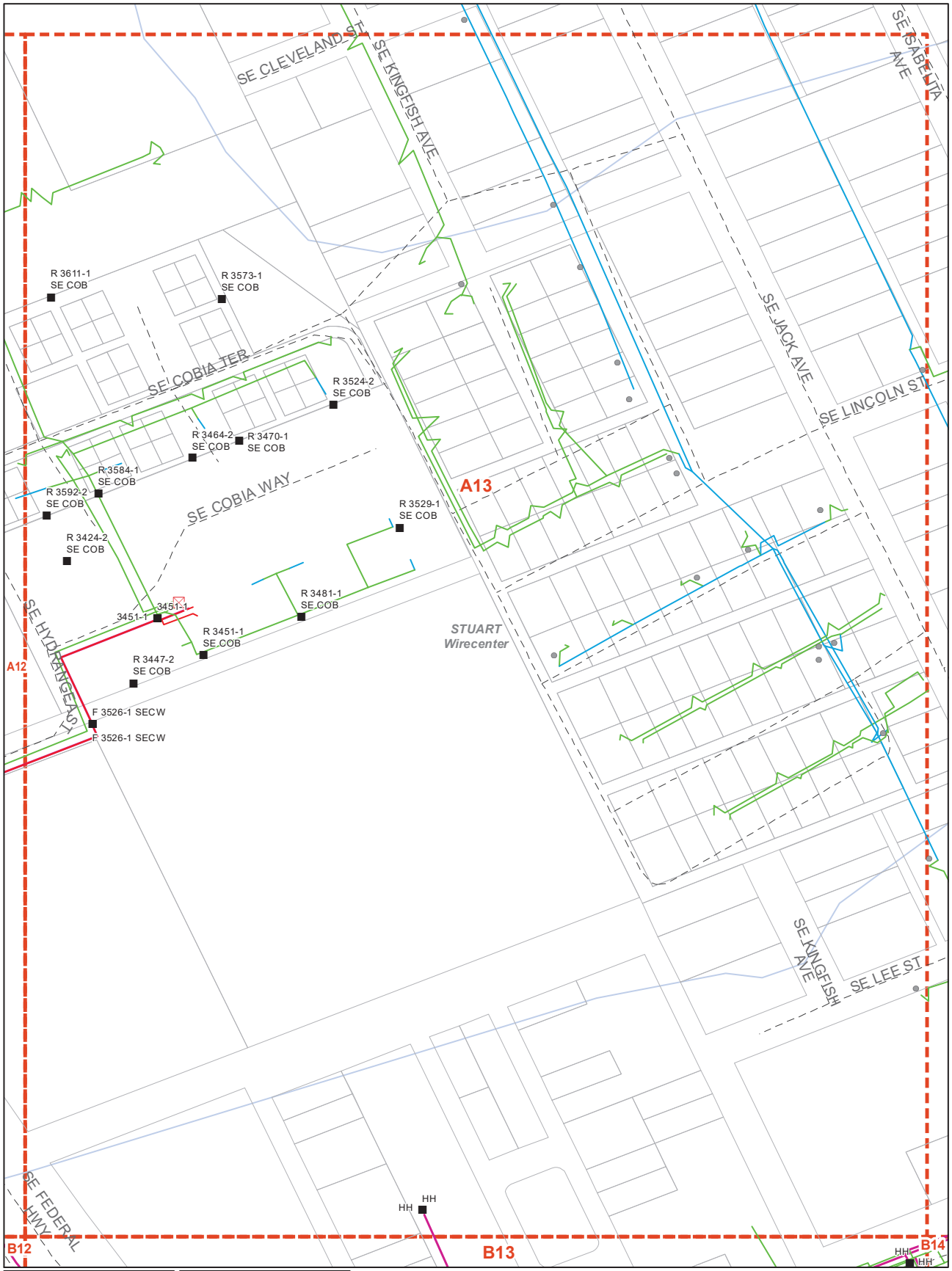
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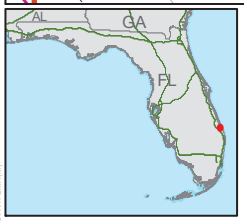
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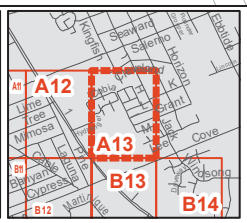
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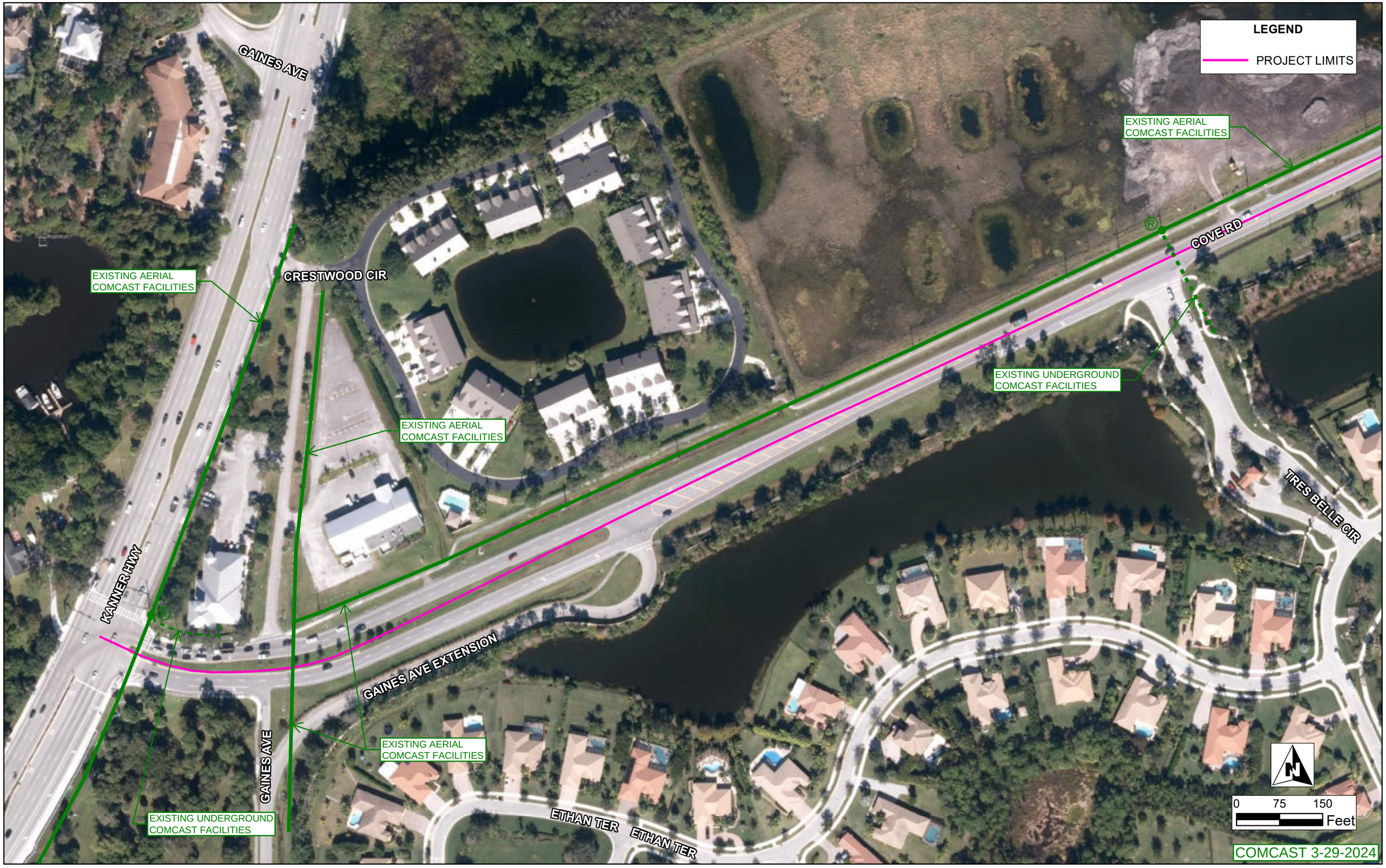
- Poles
- SAIs
- Manholes
- Aerial
- Building
- Buried
- Underground
- Floating
- Submarine
- Other
- Conduit
- Street Centerlines
- Mapping Index
- Wirecenter Boundary
- Parcels

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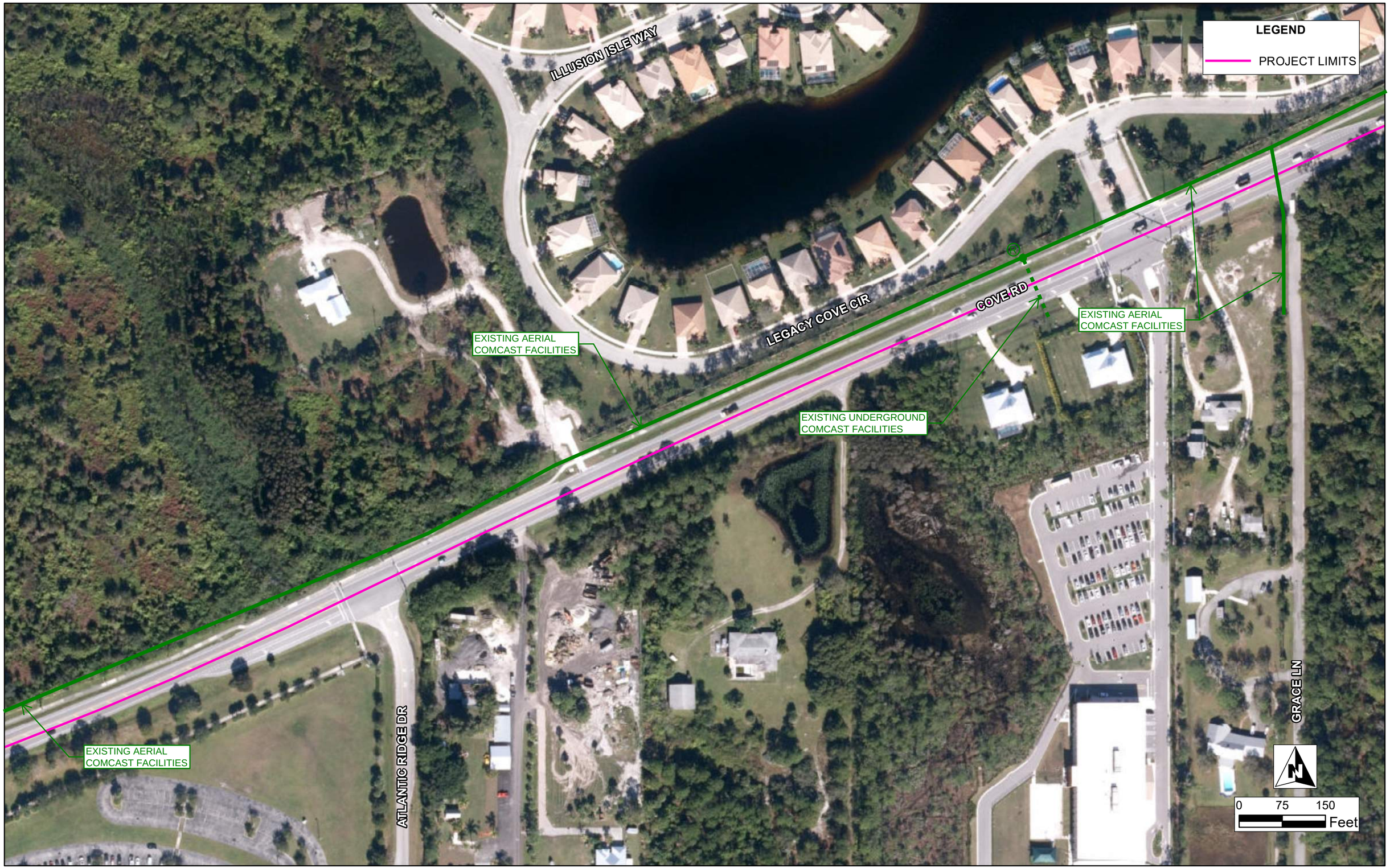
Location of facilities shown herein are subject to field verification. No liability is assumed by AT&T as to the accuracy of location facilities. Please call USA at 811 two working days in advance of any grading or excavation in vicinity of our underground facilities. AT&T propriety (internal use only). Not for use or disclosureoutside the AT&T companies except under written agreement. Telco proprietary data is not to be disclosed to sibed employees.

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Comcast


LEGEND
PROJECT LIMITS
GAINES AVE
CRESTWOOD CIR
EXISTING AERIAL COMCAST FACILITIES
EXISTING AERIAL COMCAST FACILITIES
EXISTING AERIAL COMCAST FACILITIES
COVE RD
EXISTING UNDERGROUND COMCAST FACILITIES
TRES BELLE CIR
KANNER HWY
GAINES AVE EXTENSION
EXISTING AERIAL COMCAST FACILITIES
GAINES AVE
EXISTING UNDERGROUND COMCAST FACILITIES
ETHAN TER
ETHAN TER
N
0 75 150
Feet
COMCAST 3-29-2024

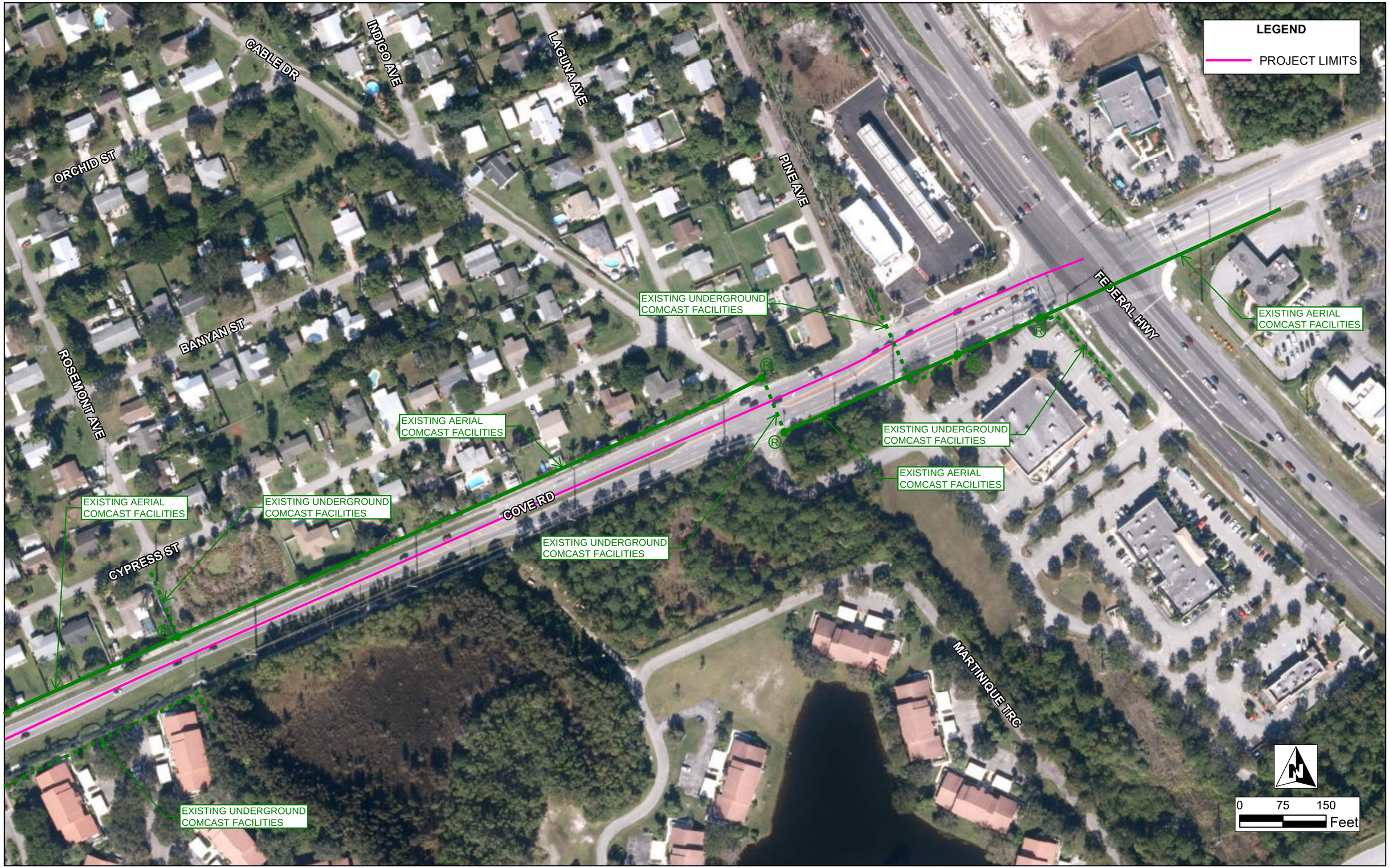

LEGEND
PROJECT LIMITS
EXISTING AERIAL
COMCAST FACILITIES
BURNETT AVE E
COVE RD
EXISTING AERIAL
COMCAST FACILITIES
N
0
75
150
Feet


LEGEND
PROJECT LIMITS
ILLUSION ISLE WAY
LEGACY COVE CIR
COVE RD
EXISTING AERIAL
COMCAST FACILITIES
EXISTING AERIAL
COMCAST FACILITIES
EXISTING UNDERGROUND
COMCAST FACILITIES
EXISTING AERIAL
COMCAST FACILITIES
ATLANTIC RIDGE DR
GRACE LN
N
0
75
150
Feet


LEGEND
PROJECT LIMITS
LAKE LEGACY WAY
AULT AVE
EXISTING AERIAL
COMCAST FACILITIES
EXISTING AERIAL
COMCAST FACILITIES
EXISTING AERIAL
COMCAST FACILITIES
LEGACY COVE CIR
COVE RD
N
0
75
150
Feet


LEGEND
PROJECT LIMITS
EXISTING AERIAL
COMCAST FACILITIES
COVE RD
WILLOUGHBY BLVD
EXISTING UNDERGROUND
COMCAST FACILITIES
STONEBRIAR WAY
EXISTING AERIAL
COMCAST FACILITIES
N
0
75
150
Feet


LEGEND
PROJECT LIMITS
AVALON DR
NORMANDY AVE
CYPRESS ST
EXISTING COMCAST PED
EXISTING COMCAST POWER SUPPLY
EXISTING AERIAL COMCAST FACILITIES
EXISTING AERIAL COMCAST FACILITIES
EXISTING UNDERGROUND COMCAST FACILITIES
EXISTING COMCAST PED
EXISTING UNDERGROUND COMCAST FACILITIES
EXISTING UNDERGROUND COMCAST FACILITIES
MARTINIQUE DR
COVE RD
NORTHGATE DR
HENRY PL
EXISTING AERIAL COMCAST FACILITIES
N
0 75 150
Feet


LEGEND
PROJECT LIMITS
CABLE DR
INDIGO AVE
LAGUNA AVE
PINE AVE
ORCHID ST
BANYAN ST
ROSEMONT AVE
FEDERAL HWY
COVE RD
CYPRESS ST
MARTINIQUE TRC
EXISTING UNDERGROUND COMCAST FACILITIES
EXISTING AERIAL COMCAST FACILITIES
EXISTING AERIAL COMCAST FACILITIES
EXISTING UNDERGROUND COMCAST FACILITIES
EXISTING UNDERGROUND COMCAST FACILITIES
EXISTING AERIAL COMCAST FACILITIES
EXISTING AERIAL COMCAST FACILITIES
EXISTING UNDERGROUND COMCAST FACILITIES
EXISTING UNDERGROUND COMCAST FACILITIES
N
0 75 150
Feet

Crown Castle

Call before you dig! 1-800-432-4770

AJ-0523

Confidential: For Florida Power & Light Company use only.

1:300

AM-0520

SPC: (898700,1009500)

Lat/Long: 27.1090 N 80.2545 W

SPC: (907100,1014900)

Lat/Long: 27.1237 N 80.2285 W

AG-0520

Updated: 03/05/2024

53 69 70 52

SALERNO RD
LIVE OAK DR SW
SE CRESTWOOD CIR
SE FORK CIR
SE RIVERBEND ST
SE PARADISE PL
SE RALLSON AVE
SE RALLSON RD
SW GAINES AVE
SW GAINES PLACE
S KANNER HWY
SE GAINES AVE
SE DOUGLAS AVE
SE SUNNY TERRACE
SE BURNETT AVE
SE BURNETT DRIVE
COVE RD
SE ATLANTIC RIDGE DR
DRIVEWAY
SE SAVOY WAY
SE AMHERST LANE
BLUE SKY PLACE
ETHAN TERRAE
PAYSAGE TRAIL
BELLE MAISON DR
TRES BELLE CIRCLE
LAQUE CIRCLE
SE PARADISE DR
SE PLEASANT RIDGE CT
SE ASHLEY OAKS WAY
SE WATERSIDE WAY

OE & 13KV
OE
BE
BE2

600ER A24027 X B24028 C24029 6651
1200-T 5858
7259 5457
72878 8548
72500 8649
72498 8448
72499 72490 72491 A825
72492 72493
72494 72495 X
72496
72977 5680
72976 4876
73149 3670
72879 7086
71701 6090
A8586 B8587 C8588
A8698 B17219 C8699
A8767 B8768 C8769
A9020 B9021 C9022 B8771
A9475 B9476 C9477
A22569
A7881 B7882
B7192 C7193
B7144
PME-9 9339
PME-9 1929
PME-9 0224
600IR A955663 X BP955664 X 6549
800ER E74031 X BP74032 5620
600IR A955691 X B955692 X 4931
7200 RM
3-Radial
1/0 A
AC1/0 A
2000
1200-T
BRadial
BR2-T
A26545 A8462 B26546 B8463 C26547 C8464
A27844 A8461 B27845 C27846

County: Martin | Mgmt Area: Treasure Coast | Svc Ctr: Stuart | AJ-0517 | 0' 600' 1200' | Primary Map: AJ-0520

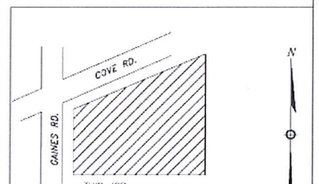
FPL Distribution and Transmission

☐ NACCESSIBLE ☒ 13KV ☐ FUTURE 23KV ☐ 23KV ☐ SALT SPRAY ☐ NULL

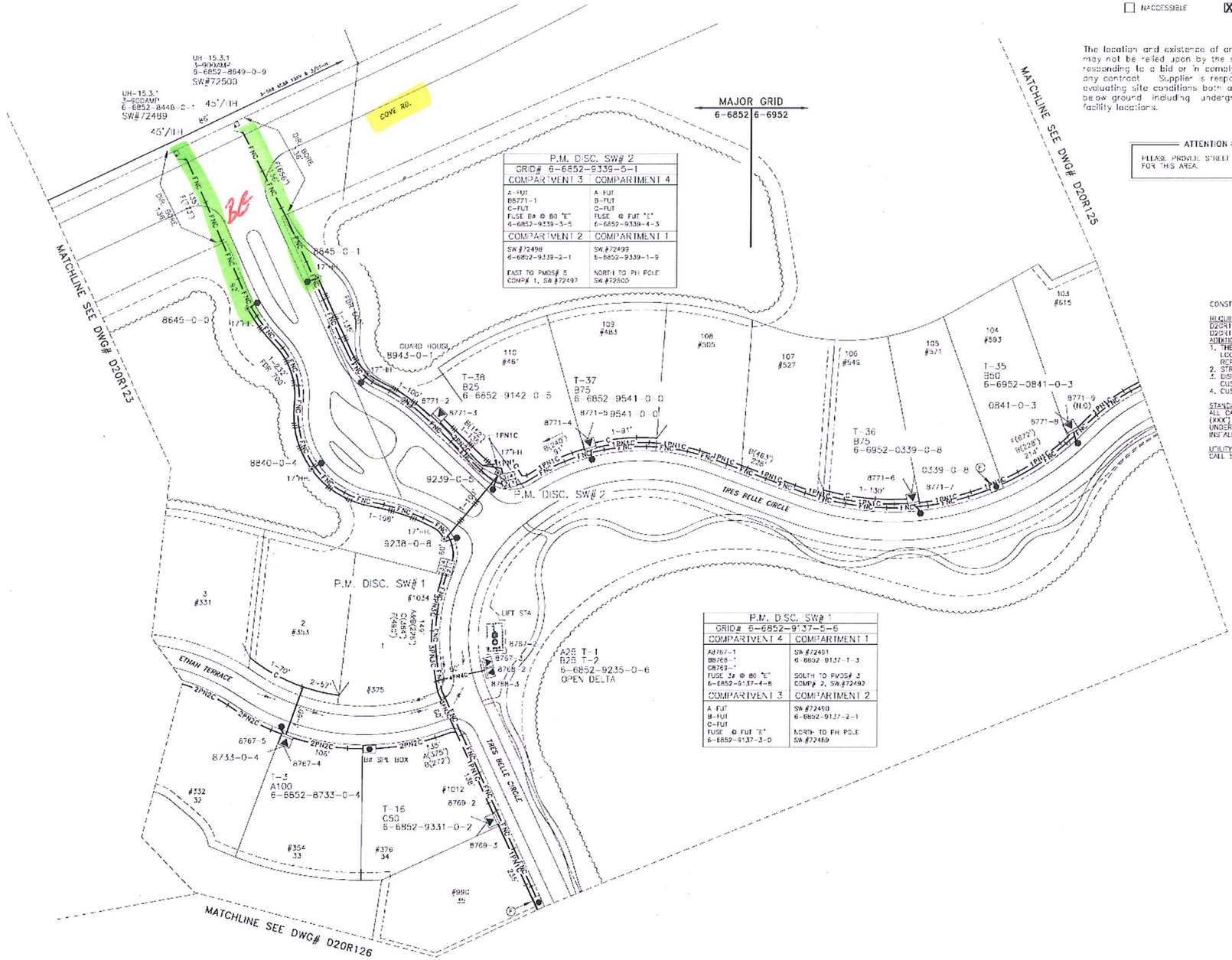
The location and existence of any facilities may not be relied upon by the supplier in responding to a bid or in complying with any contract. Supplier is responsible for evaluating site conditions both above and below ground including underground facility locations.

ATTENTION

PLEASE PROVIDE STREET ADDRESSES FOR THIS AREA.



LOCATION SKETCH
N.T.S.



CONSTRUCTION NOTES - WR# 2770750

REQUIRED DRAWINGS
D20R123
D20R124
ADDITIONAL CONSTRUCTION NOTES
1. THERE ARE 10 PMTX IN PHASE 2 OF TRES BELLE, AT EACH OF THESE PMTX LOCATIONS THE TX'S NEED TO BE MOVED TO BE ALLOW CUSTOMER DIGGING AND REPLACED BACK IN EXISTING LOCATION.
2. STREET LIGHTS AT EACH OF THESE TX LOCATIONNEED TO BE LOWER.
3. DISCONNECT ALL PRIMARY CONNECTIONS & SERVICE CONNECTIONS TO ALLOW CUSTOMER TO DO WORK AND RECONNECT WHEN FINISH.
4. CUSTOMER RETRENCHING TO PROVIDE CORRECT DEPTH OF UNDERGROUND UTILITIES.

STANDARD NOTES
ALL CABLE AND/OR CONDUIT ENDS ARE TO BE MARKED WITH AN ELECTRONIC MARKER (XXXX' DENOTES CABLE PULL DISTANCE
UNDERGROUND OBSTRUCTIONS ARE TO BE LOCATED PRIOR TO DIGGING
INSTALL NEUTRAL BOND FOR COMMUNICATION COMPANIES AT ALL SINGLE PHASE TRANSFORMERS PER O.C.S., G-11.0.0
UTILITY CONTACT - 811
CALL SUNSHINE 1-800-432-4770

"AS BUILT" RECORD

WORK ORDERS WITH A DATE IN THE AS BUILT COLUMN ARE BUILT EFFECTIVE THAT DATE. FIELD ENGINEERS CHANGES HAVE BEEN MADE TO THE TRADING BUT PROPOSED SYMBOLS HAVE NOT BEEN CHANGED TO EXISTING AND NOTE AND LOC. NUMBERS HAVE NOT BEEN REMOVED.

REFERENCE DWG's

D20R123
D20R125
D20R126
D20CK127

AS-BUILT	AUTH NO.	NO.	DATE	REVISION
	2770750	4	02/05/09	CORRECT UNDERGROUND UTILITIES DEPTH AT PHASE 2 OF TRES BELLE
11/11/08	1837358	0	11/07/05	INST PMDS# 1,2,3,4 & 5 @ TRES BELLE & PULL FOR CBL

AS-BUILT COPY — Signals Date
AS-BUILT CREW PRINT — Foreman's Signature — Date

Job CERTIFIED COMPLETED as shown on this AS-BUILT print. Material changes shown on RDS

Supervisor's Signature — Date

All required ground rods Have been driven & verified to be within FPL standards. Values are shown at all positions.

Foreman's Signature — Date

Posted by

Easement?	YES ☐ NO ☒	Survey/Stake?	YES ☐ NO ☒
Tree Work?	YES ☒ NO ☐	Designer/Stake?	YES ☒ NO ☐
Map Posting?	YES ☒ NO ☐	Trench Feet	
		Duct Bank Feet	

PERMITS	CITY	DR. DIST.	COUNTY AIR	STATE RD	FAA
	WMD	RR X/NG	COUNTY RD.	TRANSM.	

Work with SMO? YES ☐ NO ☒
CT/Special Mtr? YES ☐ NO ☒
Telephone Request? YES ☐ NO ☐
CATV Request? YES ☐ NO ☐

DESIGNED BY	M. HERNANDEZ
DRAWN BY	D.MONACO
DATE	02/05/09
MAP NO.	AJ-0620

0 30 60 120
FEET

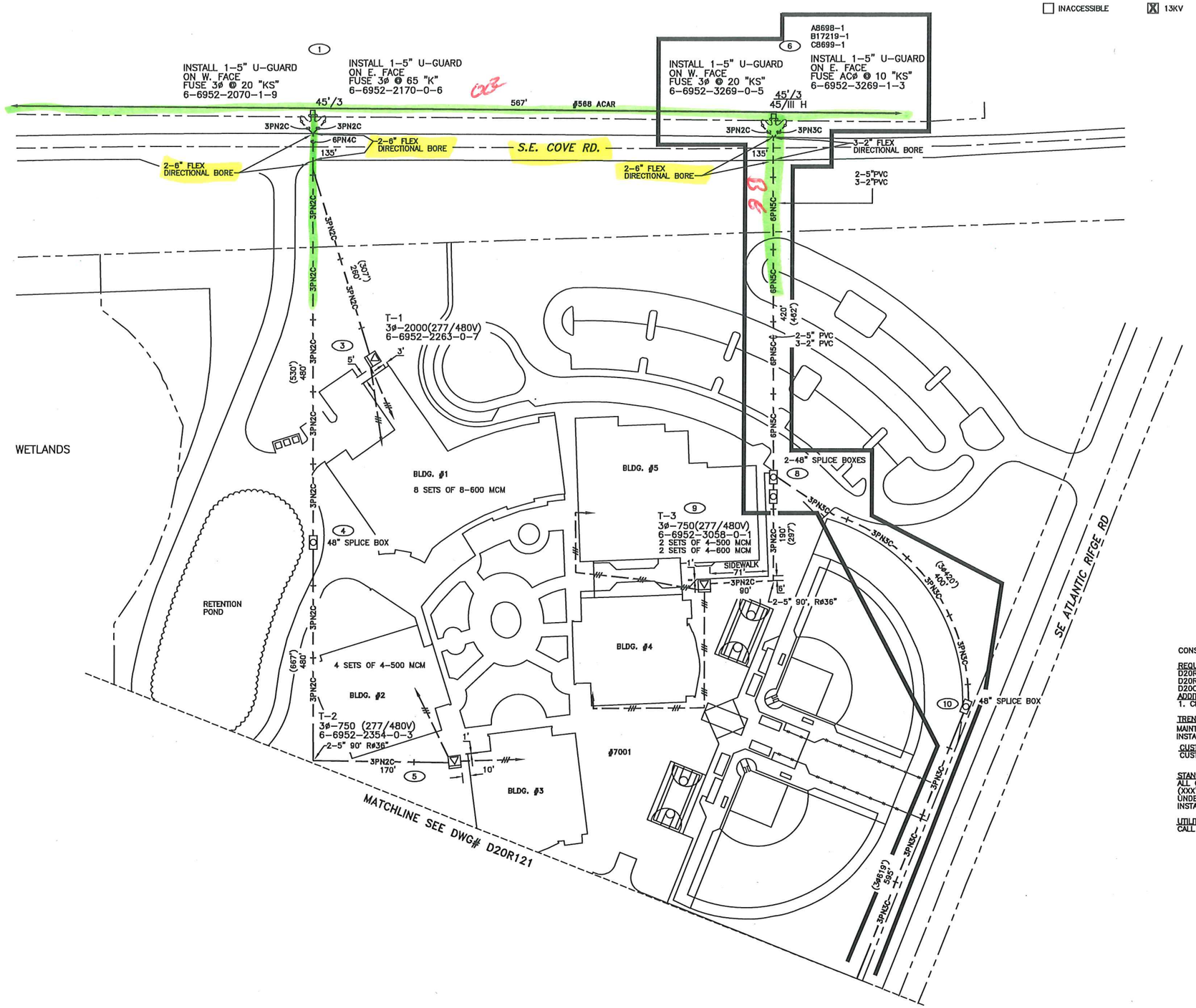
TWP: 39S RNG: 41E SEC: 4 QTR:

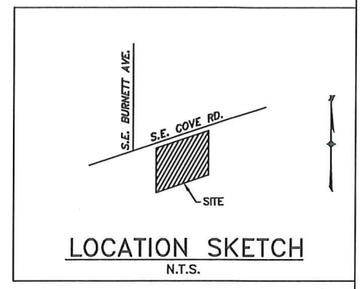
W/A TC
TRES BELLE
C/O SE COVE RD & SW GAINES AVE
STUART/MARTIN CNTY., FL

DWG NO. D20R124
WR: 2770750 IWR: 1138 -44-441

PLOT DATE: 2/5/2009 PLOT TIME: 10:11:47 AM CAD NAME: DWG

☐ INACCESSIBLE ☒ 13KV ☐ FUTURE 23KV ☐ 23KV ☐ SALT SPRAY ☐ NULL





LOCATION SKETCH
N.T.S.

ATTENTION
PLEASE PROVIDE STREET ADDRESSES FOR THIS AREA.

The location and existence of any facilities may not be relied upon by the supplier in responding to a bid or in complying with any contract. Supplier is responsible for evaluating site conditions both above and below ground including underground facility locations.

CONSTRUCTION NOTES – WR# 1629802

REQUIRED DRAWINGS
D20R119
D20R121
D20CK120

ADDITIONAL CONSTRUCTION NOTES
1. CLEAR LOCATION FOR CREW ACCESS

TRENCH NOTES
MAINTAIN A MINIMUM OF 12" SEPARATION FROM ALL OTHER UTILITIES
INSTALL #12C WIRE ALONGSIDE EMPTY CONDUIT RUNS

CUSTOMER INSTALLED CONDUIT
CUSTOMER INSTALLED ALL CONDUIT

STANDARD NOTES
ALL CABLE AND/OR CONDUIT ENDS ARE TO BE MARKED WITH AN ELECTRONIC MARKER
(XXX') DENOTES CABLE PULL DISTANCE
UNDERGROUND OBSTRUCTIONS ARE TO BE LOCATED PRIOR TO DIGGING
INSTALL NEUTRAL BOND FOR COMMUNICATION COMPANIES AT ALL SINGLE PHASE TRANSFORMERS PER D.C.S., G-11.0.0

UTILITY CONTACT LIST
CALL SUNSHINE 1-800-432-4770

REFERENCE DWG's

D20CK120
D20R121

ASBUILT	AUTH NO.	NO.	DATE	REVISION
	1629802	1	07/17/06	CHANGE OPEN DELTA TO A 3 PHASE TX
	1629802	0	07/25/05	PULL PRIMARY CABLE, INSTALL 3 TX'S TO PROVIDE SVC TO MARTIN COUNTY MIDDLE SCHOOL

AS-BUILT COPY — Initials / Cert. Date
AS-BUILT CREW PRINT — Foreman's Signature / Date
Job CERTIFIED COMPLETED as shown on this AS-BUILT print. Material changes shown on ROS.
Supervisor's Signature / Date
All required ground rods Have been driven & verified to be within FPL standards. Values are shown at all locations.
Foreman's Signature / Date

Easement? YES ☒ NO ☐	Survey/Stake? YES ☐ NO ☐	Work with SMO? YES ☐ NO ☒	
Tree Work? YES ☐ NO ☐	Designer/Stake? YES ☐ NO ☒	CT/Special Mtr? YES ☒ NO ☐	
Map Posting? YES ☒ NO ☐	Trench Feet 2'	Duct Bank Feet	
	PERMIT REQ'D: CITY / DR. DIST. / COUNTY AIR / STATE RD / FAA		
	WMD / RR XING / COUNTY RD. / TRANSM.		
Posted by	Telephone Request? YES ☐ NO ☐	CATV Request? YES ☐ NO ☒	

FPL

DESIGNED BY	M. LAMARTINA
DRAWN BY	REGINALD C ADAMS
DATE	07/17/06
MAP NO.	AJ-0520

0 30 60 120
FEET

M/k: TC
ANDERSON MIDDLE SCH.
990 S.E. COVE ROAD
STUART / MARTIN COUNTY, FL

DWG NO. D20R119
WR: 1629802 (WR: 3937-42-441)

TWNP: 39 RNG: 41 SEC: 4 QTR:

PLOT DATE: 3/22/2018 PLOT TIME: 1:22:25 PM CAD NAME: EXE

FEEDERS:	PORT SEWALL 04938	[ ] INACCESSIBLE	[X] 13KV	[ ] FUTURE 23KV	[ ] 23KV	[ ] SALT SPRAY	[ ] ROCK

ZERO TODAY!

NOTE: 48 HR MARTIN COUNTY NOTICE -- PRODUCTION LEAD PLEASE CONTACT JANA/MARTIN COUNTY/772-288-5462 TO PROVIDE 48 HOUR NOTIFICATION.

1800 INST

Feet of ground rod installed _____
Ground Resistance (Ohms) _____

A1/0A 25KV XLPE INST

1PN1C — 300' — 1PN1C — 1PN1C

1-2" PVC INST

A25 (120/240V) INST
6-7052-0996-1-9

3

2-3

2

1-2

55/3H 8 KIP 2009 J

0603 C25 8 KIP 2008

SE AULT AVE

568 ACAR

Feet of ground rod installed _____
Ground Resistance (Ohms) _____

55/3H 8 KIP INST
A10 KS INST
6-7053-0804-1-5

2" U-GRD 30' INST

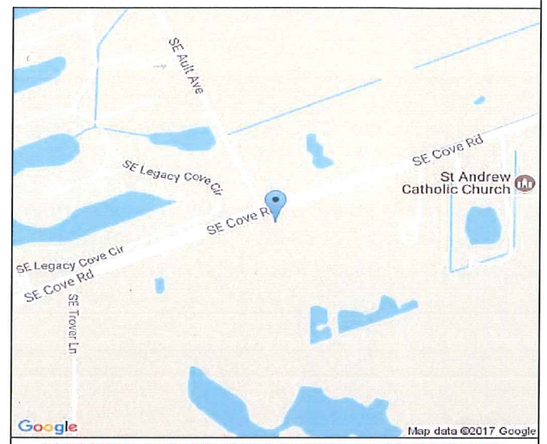
A1/0A 25KV XLPE INST — 100' — 1-2" HDPE INST

1

SE COVE RD

MOT 602

CALL SUNSHINE #811 48 HOURS BEFORE YOU DIG LOCATE MARKINGS COLOR CODE			
RED	ELECTRIC	BLUE	WATER
YELLOW	GAS-OIL-STEAM	GREEN	SEWER
PINK	TEMP. SURVEY MARKINGS	ORANGE	CABLE TV
WHITE	PROPOSED EXCAVATION		



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CALL 811 (Sunshine811) PRIOR TO ANY EXCAVATION ACTIVITIES

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CONSTRUCTION NOTES:

LOC 1
- INST 1-PH PRIMARY RISER & FRAME SIMILAR TO UH-15.3.5

SPAN 1-3
- DIRECTIONAL BORE 100-FT OF 1-2" HDPE UNDER SE COVE RD &TRENCH & INST 300' OF 2" PVC
- PULL 380-FT OF UG PRIMARY CABLE

LOC 3
- INST A-25KVA PM TX FOR NEW RES SFH

- FRAMING IS BASED ON THE POWER SYSTEMS DISTRIBUTION CONSTRUCTION STANDARDS (DCS MANUAL).
- INSTALL TLM TAGS AS INDICATED ON DRAWING.
- TAG FUSE SIZE ON POLE AS INDICATED ON DRAWING.
- CHECK VOLTAGE ROTATION AND CONTINUITY AT EACH TRANSFORMER AND RISER LOCATION.

AS-BUILT CREW PRINT		AS-BUILT COPY	
Foreman's Signature	Date	Initials	Cert. Date

Job CERTIFIED COMPLETED as shown on this AS-BUILT print. Material changes shown on ROS.

Supervisor's Signature _____ Date _____

All required ground rods have been driven & verified to be within FPL standards. Values are shown at all locations.

Foreman's Signature _____ Date _____

Easement? [ ]		Tree Work? [ ]		Tree Access? [ ]	Tree Staking Req'd? [ ]
Designer/Stake? [ ]		CT/Special Mtr? [ ]		Work with SMO? [ ]	Survey/Stake? [ ]
POLE LINE FT:		POLE LINE FT. ON TRANSM. POLES:		TRENCH FT:	DUCT BANK FT:
PERMIT REQ'D	CITY [ ]	COUNTY RD [ ]	COUNTY AIR [ ]	STATE RD [ ]	FAA [ ]
	WMD [ ]	RR XING [ ]	DR. DIST. [ ]	TRANSM. [ ]	
Requested Tel. Co. Set Poles? [ ]		Requested Tel. Co. Transfer? [ ]		Request CATV Transfer? [ ]	

FPL

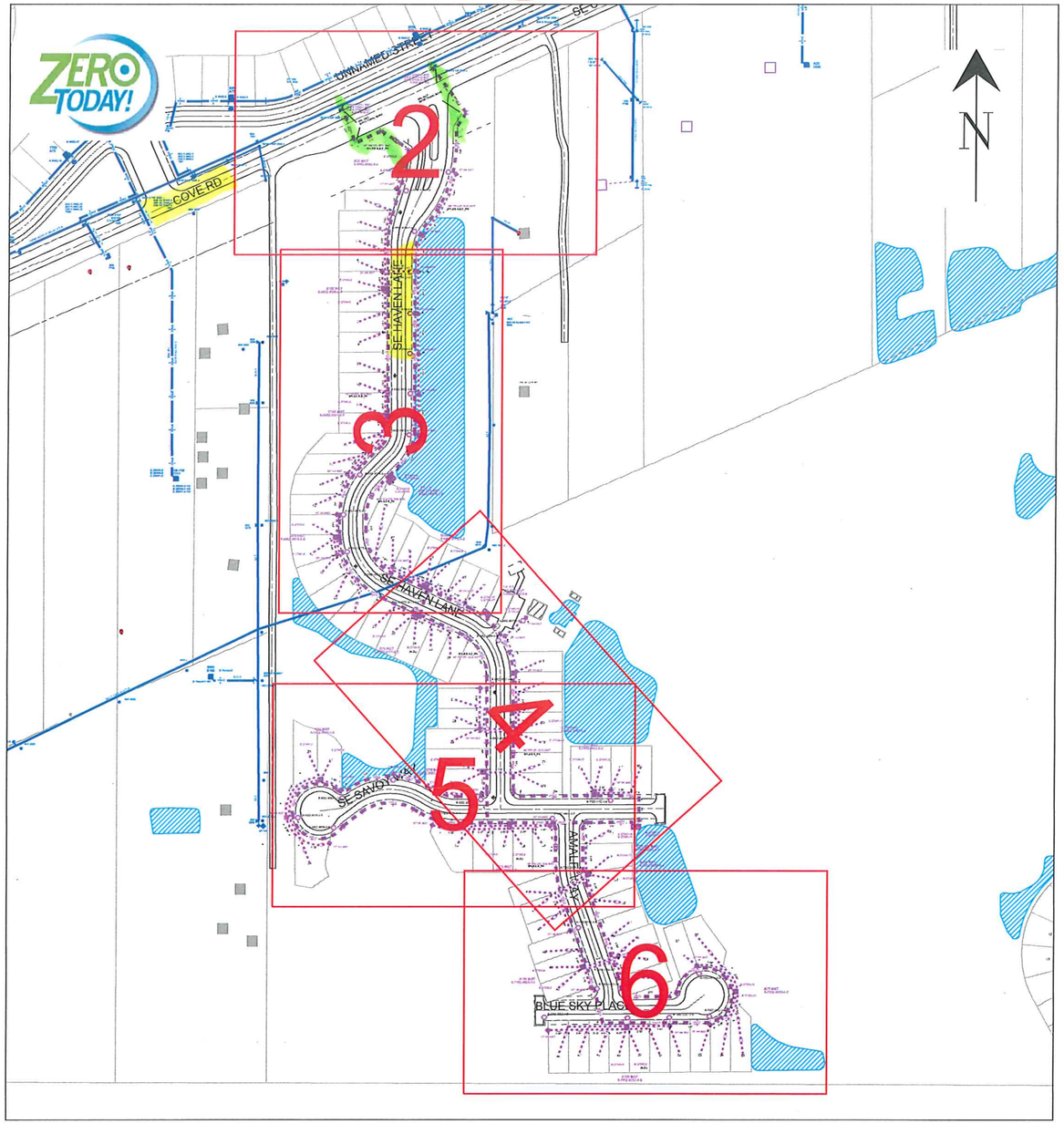
Job Owner:	Kamanie Balark	M/A: TC	Township: 38 Range: 41 Section 34
Designer:	Kamanie Balark	ACC -- INST PRIMARY RISER & RADIAL TO A PM TX, DIRECTIONAL BORE -- PERMIT	
Date:	10/24/2017		
Scale: 1" = 40'		1800 SE COVE RD, STUART, 34997	
0' 40' 80'		Dwg No. 7738915_11x17.xml	Map No. AJ0523
		WR: 7738915	Page 1 of 1

Size: 11 x 17
PRINTED BY: KKB0JK9
PLOT DATE/TIME: 10/24/2017 14:18:21

Cover Sheet: WR#10717845

Page 1 of 6

[ ] INACCESSIBLE [X] 12KV [X] 13KV [ ] FUTURE 23KV [ ] 23KV [ ] FUTURE 25KV [ ] 25KV [ ] SALT SPRAY [ ] ROCK



GENERAL NOTES
- NOTIFY CUSTOMERS OF TEMPORARY POWER AND TRAFFIC INTERRUPTIONS.
- PROVIDE WARNING SIGNALS FOR PEDESTRIANS AND TRAFFIC SIGNALS FOR MOTORISTS.
- SERVICE TO TRAFFIC SIGNAL, SCHOOL FLASHING SIGNAL, AND LIFT STATIONS MUST REMAIN ENERGIZED AT ALL TIMES.

CAUTION
- THIS DRAWING IS MERELY AN APPROXIMATION. EXACT LOCATION OF FPL COMPANY UNDERGROUND FACILITIES MUST BE DETERMINED PRIOR TO ANY SUBSURFACE OPERATIONS IN THIS AREA.
- ALL BOUNDARIES ARE APPROXIMATE. ONLY ACCURATE ON THE DAY OF THIS TRANSMISSION. FACILITY LOCATION AND DEPTH SUBJECT TO CHANGE WITHOUT NOTICE. NOT TO BE USED FOR SURVEY OR EXCAVATION PURPOSES.

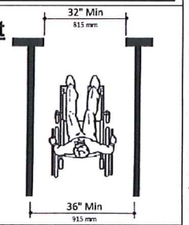
NOTE: THE LOCATION AND EXISTENCE OF ANY FACILITIES MAY NOT BE RELIED UPON BY THE SUPPLIER IN RESPONDING TO A BID OR IN COMPLYING WITH ANY CONTRACT. SUPPLIER IS RESPONSIBLE FOR EVALUATING SITE CONDITIONS BOTH ABOVE AND BELOW GROUND INCLUDING UNDERGROUND FACILITY LOCATIONS.

CALL SUNSHINE #811
48 HOURS BEFORE YOU DIG
LOCATE MARKINGS COLOR CODE

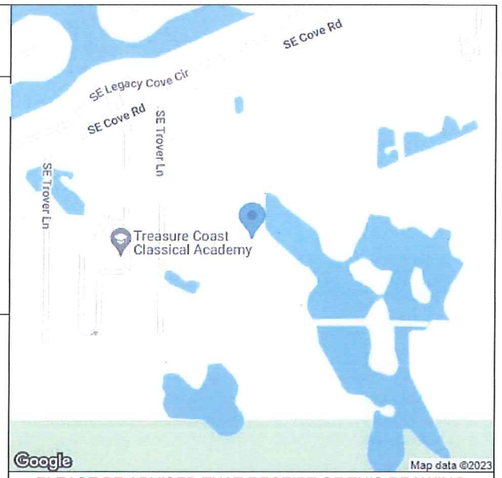
RED	ELECTRIC	BLUE	WATER
YELLOW	GAS-OIL-STEAM	GREEN	SEWER
PINK	TEMP. SURVEY MARKINGS	ORANGE	CABLE TV
WHITE	PROPOSED EXCAVATION		

American Disabilities Act

If pole placement location does not meet the minimum single point distance of 32" from edge of curb or back of sidewalk, contact your Production Lead, for further instructions.



-STUB, SEAL, AND ELECTRONICALLY MARK ALL EMPTY SERVICE CONDUITS AT THE LOT CORNER FOR FUTURE EXTENSION TO THE METER.



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CALL 811 (Sunshine811) PRIOR TO ANY EXCAVATION ACTIVITIES

Construction Notes:

REQUIRED DRAWINGS:
WR# 10717845
D20CK178 (N)

TRENCH:
-MAINTAIN A MINIMUM OF 12" SEPERATON FROM ALL OTHER UTILITIES
-INSTALL #12C WIRE ALONGSIDE EMPTY CONDUIT RUNS
-CUSTOMER INSTALLED CONDUIT: ALL
CABLE:
-3PN3C IS 1CC #1/0A 25KV-XLPE IN 3-2" PVC WITH 36" MIN COVER
-SECONDARY IS #4/0 TPX HM-HD IN 1-2" PVC WITH 24" MIN COVER (UNLESS NOTED)
-ALL CABLE AND/OR CONDUIT ENDS ARE TO BE MARKED WITH AN ELECTRONIC MARKER
-(XXX') DENOTES CABLE PULL DISTANCE
-UNDERGROUND OBSTRUCTIONS ARE TO BE LOCATED PRIOR TO DIGGING
-INSTALL NEUTRAL BOND FOR COMMUNICATION COMPANIES AT ALL SINGLE PHASE TRANSFORMERS PER D.C.S. G-11.0.0
-ALL HANDHOLES ARE 24" (UNLESS NOTED)
-ALL TRANSFORMERS ARE LOW STYLE (UNLESS NOTED)

STREET LIGHTS: WR# 11527317
-STREET LIGHTS ARE 75/80W 8500L 4000K COOPER MESA TPE 3 BLACK ON A TENON MOUNT BLACK FIBERGLASS 13FT POLE- FPL OWNED AND MAINTAINED

LARGEST A/C TONS:	8
HOME SQ. FT.	4000

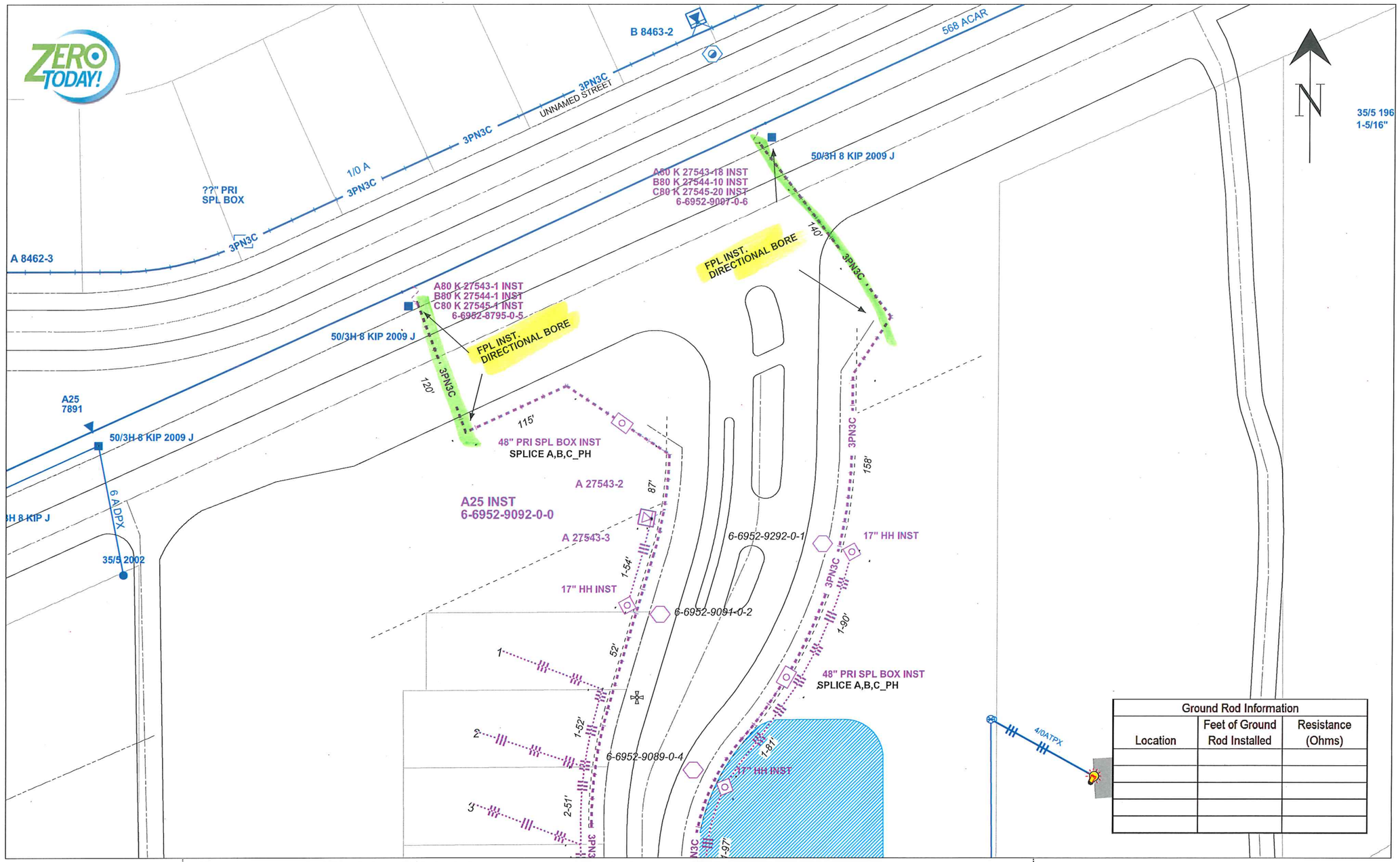
IPC	DATE	REVISION
4		
3		
2		
1	02/17/2023	INSTALL UG FACILITES TO PROVIDE SERVICE TO 83 LOTS COVE ROYALE

Easement? [ ]	Tree Work? [ ]	Tree Access? [ ]	Tree Staking Req'd? [ ]	
Designer/Stake? [ ]	CT/Special Mtr? [ ]	Work with SMO? [ ]	Survey/Stake? [ ]	
POLE LINE FT:	POLE LINE FT. ON TRANSM. POLES:	TRENCH FT:	DUCT BANK FT:	
PERMIT REQ'D	CITY [ ]	COUNTY RD [ ]	COUNTY AIR [ ]	STATE RD [ ]	FAA [ ]
	WMD [ ]	RR XING [ ]	DR. DIST. [ ]	TRANSM. [ ]	
Requested Tel. Co. Set Poles? [ ]	Requested Tel. Co. Transfer? [ ]	Request CATV Transfer? [ ]		

Job Owner:	Sebastien Daub	M/A: TC	Township: 38 Range: 41 Section 34
Designer:	Marcus Boria	COVE ROYAL	
Date:	04/07/2023		
Original Size: 18 x 24		COVE RD, STUART, FL, 34994	
0' 206' 412'		Dwg No. 10717845_18x24 UG.xml	Map: AJ0520
		WR: 10717845	Page 1 of 6

Size: 18 x 24
PRINTED BY: mxb05cz
PLOT DATE/TIME: 04/07/2023 15:25:27

FEEDERS:	PORT SEWALL 04938	[ ] INACCESSIBLE	[X] 13KV	[ ] FUTURE 23KV	[ ] 23KV	[ ] SALT SPRAY	[ ] ROCK



Ground Rod Information		
Location	Feet of Ground Rod Installed	Resistance (Ohms)

PAGE 3

IPC	DATE	REVISION
4		
3		
2		
1	02/17/2023	INSTALL UG FACILITES TO PROVIDE SERVICE TO 83 LOTS COVE ROYALE

AS-BUILT CREW PRINT
Foreman's Signature — Date

AS-BUILT COPY
Initials — Cert. Date

Job CERTIFIED COMPLETED as shown on this AS-BUILT print. Material changes shown on ROS.
Supervisor's Signature — Date

All required ground rods have been driven & verified to be within FPL standards. Values are shown at all locations.
Foreman's Signature — Date

Easement? [ ]	Tree Work? [ ]	Tree Access? [ ]		Tree Staking Req'd? [ ]
Designer/Stake? [ ]	CT/Special Mtr? [ ]	Work with SMO? [ ]		Survey/Stake? [ ]
POLE LINE FT:	POLE LINE FT. ON TRANSM. POLES:	TRENCH FT:		DUCT BANK FT:
PERMIT REQ'D: CITY [ ]	COUNTY RD [ ]	COUNTY AIR [ ]	STATE RD [ ]	FAA [ ]
WMD [ ]	RR XING [ ]	DR. DIST. [ ]	TRANSM. [ ]	
Requested Tel. Co. Set Poles? [ ]	Requested Tel. Co. Transfer? [ ]		Request CATV Transfer? [ ]	

FPL

Job Owner:	Sebastien Daub	M/A: TC	Township: 38 Range: 41 Section 34
Designer:	Marcus Boria		COVE ROYAL
Date:	04/07/2023		
Original Size: 18 x 24			COVE RD, STUART, FL, 34994
0' 40' 80'		Dwg No. 10717845_18x24 UG.xml	Map: AJ0520
		WR: 10717845	Page 2 of 6

PLOT DATE/TIME: 04/07/2023 15:25:34 PRINTED BY: mxb05cz Size: 18 x 24

Call before you dig! 1-800-432-4770

AJ-0526

Confidential: For Florida Power & Light Company use only.

1:300

AM-0523

Lat/Long: 27.1238 N 80.2544 W

SPC: (898700,1014900)

SPC: (907100,1020300)

Lat/Long: 27.1385 N 80.2284 W

AG-0523

Updated: 03/22/2024

69

70

54

53

SW LINDEN ST

SW ABSALOOSA ST

SW BLACKBURN TER

SW STARDUST TER

SW TERRACE

SE VIOLET LN

SE HIGHLAND RD

SE PONDEROSA RD

SE WILLOWBY RD

SE DARLING ST

SE TAYLOR DR

SE AULT AVE

SE SMITH AVE

SE SALERNO RD

SE BUTTONWOOD CIR

SE PEBBERWOOD DR

SE PIFF TER

SE WOODS EDGE TRL

SE DUKE CIRCLE DR

SOUTHWOOD TRL

S KANNER HWY

County: Martin

Mgmt Area: Treasure Coast

Svc Ctr: Stuart

AJ-0520

0' 600' 1200'

Primary Map: AJ-0523

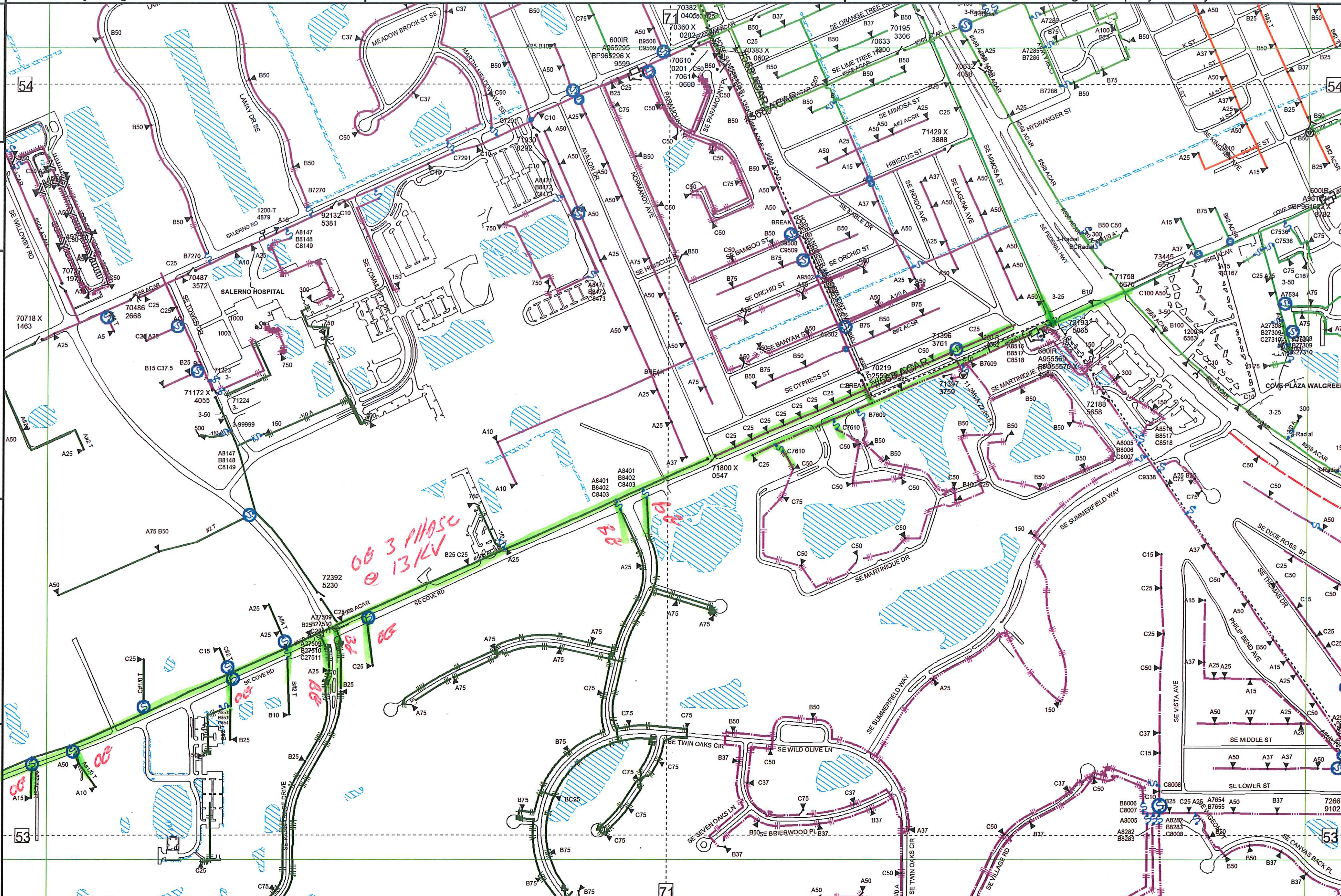
Call before you dig! 1-800-432-4770 | AG-0526 | Confidential: For Florida Power & Light Company use only.

1:300

AJ-0523

Lat/Long: 27.1237 N 80.2285 W

SPC: (907100,1014900)



AD-0523

Lat/Long: 27.1384 N 80.2026 W

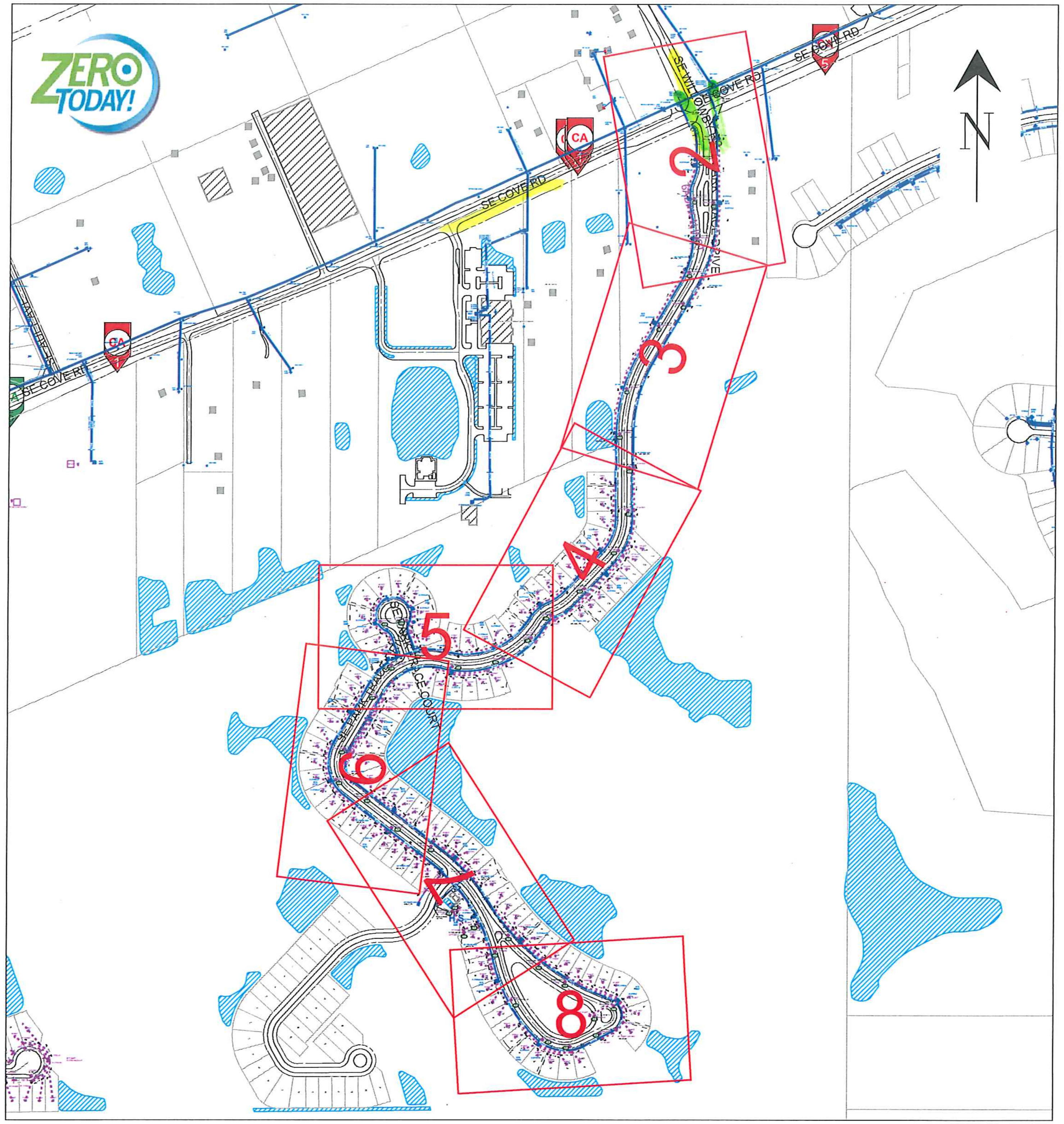
SPC: (915500,1020300)

Updated: 02/17/2024

County: Martin | Mgmt Area: Treasure Coast | Svc Ctr: Stuart | AG-0520 | 0' 600' 1200' | Primary Map: AG-0523

Cover Sheet: WR#11866011

Page 1 of 8 | [ ] INACCESSIBLE | [ ] 12KV | [X] 13KV | [ ] FUTURE 23KV | [ ] 23KV | [ ] FUTURE 25KV | [ ] 25KV | [ ] SALT SPRAY | [ ] ROCK



GENERAL NOTES
- NOTIFY CUSTOMERS OF TEMPORARY POWER AND TRAFFIC INTERRUPTIONS.
- PROVIDE WARNING SIGNALS FOR PEDESTRIANS AND TRAFFIC SIGNALS FOR MOTORISTS.
- SERVICE TO TRAFFIC SIGNAL, SCHOOL FLASHING SIGNAL, AND LIFT STATIONS MUST REMAIN ENERGIZED AT ALL TIMES.

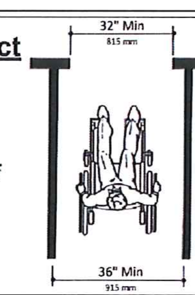
CAUTION
- THIS DRAWING IS MERELY AN APPROXIMATION. EXACT LOCATION OF FPL COMPANY UNDERGROUND FACILITIES MUST BE DETERMINED PRIOR TO ANY SUBSURFACE OPERATIONS IN THIS AREA.
- ALL BOUNDARIES ARE APPROXIMATE. ONLY ACCURATE ON THE DAY OF THIS TRANSMISSION. FACILITY LOCATION AND DEPTH SUBJECT TO CHANGE WITHOUT NOTICE. NOT TO BE USED FOR SURVEY OR EXCAVATION PURPOSES.

NOTE: THE LOCATION AND EXISTENCE OF ANY FACILITIES MAY NOT BE RELIED UPON BY THE SUPPLIER IN RESPONDING TO A BID OR IN COMPLYING WITH ANY CONTRACT. SUPPLIER IS RESPONSIBLE FOR EVALUATING SITE CONDITIONS BOTH ABOVE AND BELOW GROUND INCLUDING UNDERGROUND FACILITY LOCATIONS.

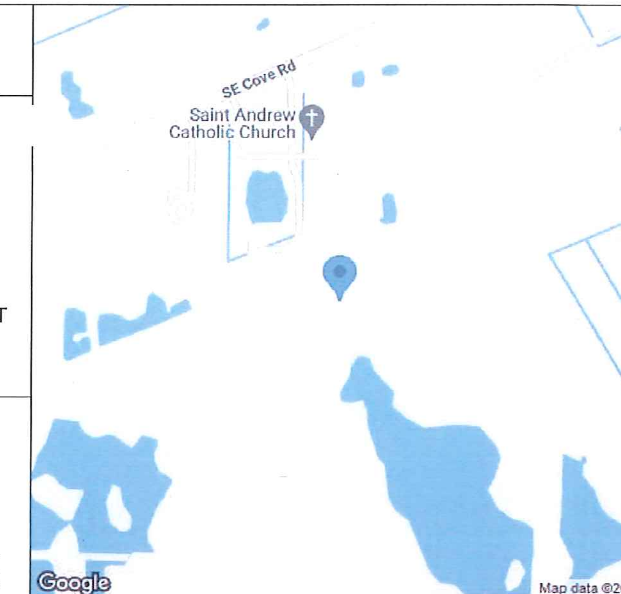
CALL SUNSHINE #811
48 HOURS BEFORE YOU DIG
LOCATE MARKINGS COLOR CODE

RED	ELECTRIC	BLUE	WATER
YELLOW	GAS-OIL-STEAM	GREEN	SEWER
PINK	TEMP. SURVEY MARKINGS	ORANGE	CABLE TV
WHITE	PROPOSED EXCAVATION		

American Disabilities Act
If pole placement location does not meet the minimum single point distance of 32" from edge of curb or back of sidewalk, contact your Production Lead, for further instructions.



-STUB, SEAL, AND ELECTRONICALLY MARK ALL EMPTY SERVICE CONDUITS AT THE LOT CORNER FOR FUTURE EXTENSION TO THE METER.



PLEASE BE ADVISED THAT RECEIPT OF THIS DRAWING AND/OR SURVEY, WHICH IS AN APPROXIMATION, DOES NOT RELIEVE YOU OF ANY STATUTORY OBLIGATIONS, INCLUDING THE PROVISIONS CONTAINED IN SECTION 556, FLORIDA STATUTES.
CALL 811 (Sunshine811) PRIOR TO ANY EXCAVATION ACTIVITIES

Construction Notes:

REQUIRED DRAWINGS:
WR_11866011_18X24 UG

CABLE:
-STREET LIGHT IS #6 DPX HM-HD IN 1-2" PVC WITH 24" MIN COVER
-ALL CABLE AND/OR CONDUIT ENDS ARE TO BE MARKED WITH AN ELECTRONIC MARKER
-(XXX') DENOTES CABLE PULL DISTANCE
-UNDERGROUND OBSTRUCTIONS ARE TO BE LOCATED PRIOR TO DIGGING

-STREET LIGHTS:
-STREET LIGHTS ARE GE TRADITIONAL CARRIAGE 4000K 6000L BLACK ON 21 FT FIBERGLASS POLES - FPL OWNED AND MAINTAINED

4		
3		
2		
1	01/24/2023	
IPC	DATE	REVISION

Easement? [ ]	Tree Work? [ ]	Tree Access? [ ]	Tree Staking Req'd? [ ]	
Designer/Stake? [ ]	CT/Special Mtr? [ ]	Work with SMO? [ ]	Survey/Stake? [ ]	
POLE LINE FT:	POLE LINE FT. ON TRANSM. POLES:	TRENCH FT:	DUCT BANK FT:	
PERMIT REQ'D	CITY [ ]	COUNTY RD [ ]	COUNTY AIR [ ]	STATE RD [ ]	FAA [ ]
	WMD [ ]	RR XING [ ]	DR. DIST. [ ]	TRANSM. [ ]
Requested Tel. Co. Set Poles? [ ]	Requested Tel. Co. Transfer? [ ]	Request CATV Transfer? [ ]		

LARGEST A/C TONS:
HOME SQ. FT.

FPL

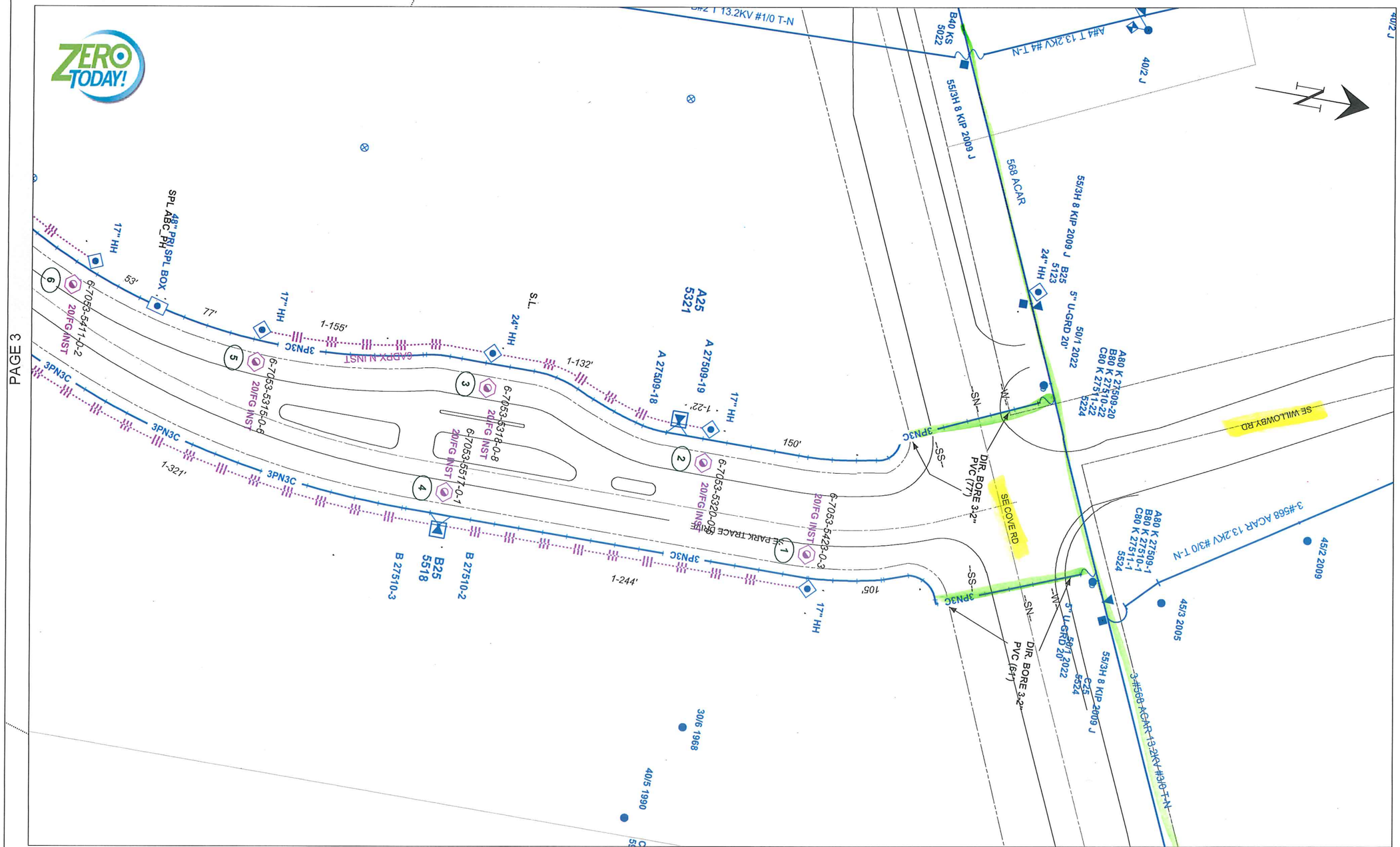
Job Owner:	Sebastien Daub	M/A: TC	Township: 38 Range: 41 Section 34
Designer:	Elisha Clarke	THE PRESERVE AT PARK TRACE PH 1 - SL	
Date:	01/18/2024		
Original Size: 18 x 24		2350 SE COVE RD, STUART, FL, 34994	
0' 319' 638'		Dwg No. 11866011_18x24 UG.xml	Map: AG0520
		WR: 11866011	Page 1 of 8

Size: 18 x 24
PRINTED BY: EXC0ZQK
PLOT DATE/TIME: 01/18/2024 08:23:25

FEEDERS:

[ ] INACCESSIBLE [X] 13KV [ ] FUTURE 23KV [ ] 23KV [ ] SALT SPRAY [ ] ROCK

PAGE 3



Size: 18 x 24

PRINTED BY: EXC0ZQK

PLOT DATE/TIME: 01/18/2024 08:23:27

IPC	DATE	REVISION
4		
3		
2		
1	01/24/2023	INSTALL 40 - 4000K 6000L GE TRADITIONAL CARRIAGE BLACK STREET LIGHT ON 20 FT FIBERGLASS POLES - THE PRESERVE AT PARK TRACE PH1- SL

AS-BUILT CREW PRINT

Foreman's Signature ____ Date ____

AS-BUILT COPY

Initials ____ Cert. Date ____

Job CERTIFIED COMPLETED as shown on this AS-BUILT print. Material changes shown on ROS.

Supervisor's Signature ____ Date ____

All required ground rods have been driven & verified to be within FPL standards. Values are shown at all locations.

Foreman's Signature ____ Date ____

Easement? [ ]	Tree Work? [ ]	Tree Access? [ ]	Tree Staking Req'd? [ ]
Designer/Stake? [ ]	CT/Special Mtr? [ ]	Work with SMO? [ ]	Survey/Stake? [ ]
POLE LINE FT:	POLE LINE FT. ON TRANSM. POLES:	TRENCH FT:	DUCT BANK FT:
PERMIT REQ'D: CITY [ ]	COUNTY RD [ ]	COUNTY AIR [ ]	STATE RD [ ] FAA [ ]
WMD [ ]	RR XING [ ]	DR. DIST. [ ]	TRANSM. [ ]
Requested Tel. Co. Set Poles? [ ]	Requested Tel. Co. Transfer? [ ]	Request CATV Transfer? [ ]	

FPL

Job Owner:	Sebastien Daub	M/A: TC	Township: 38 Range: 41 Section 34
Designer:	Elisha Clarke	THE PRESERVE AT PARK TRACE PH 1 - SL	
Date:	01/18/2024		
Original Size: 18 x 24		2350 SE COVE RD, STUART, FL, 34994	
0' 40' 80'		Dwg No. 11866011_18x24 UG.xml	Map: AG0523
		WR: 11866011	Page 2 of 8

☐ NACCESSIBLE ☒ 13KV ☐ FUTURE 23KV ☐ 23KV ☐ SALT SPRAY ☐ NULL

A8401-16
B8402-18
C8403-18

INSTALL 1-5" U-GUARD
ON S. QUAD
FUSE @ 80 "K"
6-7053-9543-0-0

120' 3PN3C DBORE
120' 3PN3C DBORE
568T
3PN3C
A,B,Cø(535')
145' 3PN3C
17" HH
6-7053-9736-0-3
#6DPX 217'

6-7053-9540-0-8

A8401-1
B8402-1
C8403-1
INSTALL 1-5" U-GUARD 17" HH
ON S. QUAD
FUSE @ 80 "K"
6-7053-9442-0-7

S.E. NORTHGATE DR.

#6DPX 1-365' 3PN3C
8401-2
8401-3
T-93
A25
6-7053-9834-0-7

A,B,Cø SPLICE 48" HH

Aø(625')
Bø(500')
Cø(500')

130' 3PN3C
50' 3PN3C
1-85' 2-50°
6-7153-0229-0-1
SE HENRY PLACE
2PN2C 2-50° 8401-16 8401-17
3-80'
1-45' 2-45' 3-45'
2PN2C 100' (265')
8401-15
8401-14
3-75' 4-75'
T-92
A75
6-7153-0229-0-1
T-91
A75
6-7153-0727-0-1

#6DPX 17" HH 100'
6-7053-9830-0-8
3PN3C

543 544 542 545 546 547 548 549 541 540 539 538 537 536 535 534

300' 3PN3C
Aø(490')

1-140' 3PN3C
6-7053-9628-0-9
17" HH #6DPX
1-130' 3PN3C
Aø
Bø(645')
Cø(770')

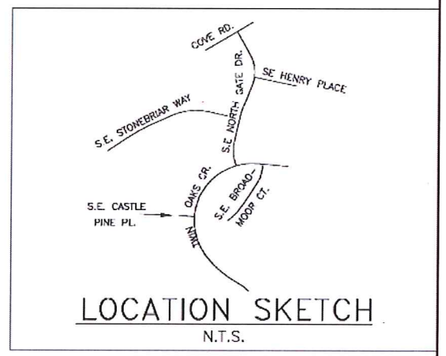
MATCHLINE TO D20R84

COVE RD

LARGEST A/C TONS	5
HOME SQ. FT.	2800

CONSTRUCTION NOTES - WO# 1209-40-441 WR# 130045
FOR COMPLETE CONSTRUCTION NOTES SEE D20R81
REQUIRED DRAWINGS
D20R81 D20R84
D20R82 D20R85
D20R83 D20R86
D20CK13
UTILITY CONTACT LIST
CALL SUNSHINE 1-800-432-4770

REFERENCE DWG's
D20R84



LOCATION SKETCH
N.T.S.

PLOT DATE: 12/11/02 PLOT TIME: 8:39:30 AM CAD NAME: WAWDRG

ASBUILT	AUTH. NO.	NO.	DATE	REVISION
	1209-40-441	1	08/27/02	WR# 130045: ADDED SVC TO SUMMERFEILD PH. 4&5 LOTS 400-549

AS-BUILT COPY — Initials / Cert. Date
AS-BUILT CREW PRINT — Foreman's Signature / Date
Job CERTIFIED COMPLETED as shown on this AS-BUILT print. Material changes shown on ROS.
Supervisor's Signature / Date
All required ground rods Have been driven & verified to be within FPL standards. Values are shown at all locations.
Foreman's Signature / Date

Easement? YES ☐ NO ☒
Tree Work? YES ☐ NO ☒
Map Posting? YES ☐ NO ☒
Posted by

Survey/Stake? YES ☐ NO ☒
Designer/Stake? YES ☐ NO ☒
Trench Feet
Telephone Request? YES ☐ NO ☒

Work with SMO? YES ☐ NO ☒
CT/Special Mtr? YES ☐ NO ☒
Duct Bank Feet
CATV Request? YES ☐ NO ☒

PERMIT REQ'D: CITY ☐ DR. DIST. ☐ COUNTY AIR ☐ STATE RD ☐ FAA ☐ WMD ☐ RR XING ☐ COUNTY RD. ☐ TRANSM. ☐

FPL

PROJECT MGR. M. LAMARTINA

TWNP: 38S RNG: 41E SEC: 35 QTR: _____

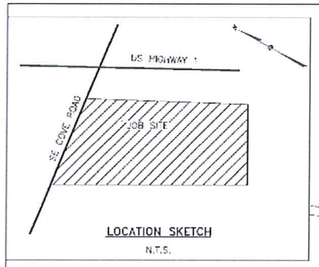
DESIGNED BY	W. WAGNER
DRAWN BY	V. DEROSIA
DATE	08/27/02
MAP NO.	D2030

0 25 50 100 FEET

W/A: TC
SUMMERFEILD PH. 4 & 5
SE TWIN OAKS RD. &
SE KINGSMILL PLACE
MARTIN COUNTY, FL

DWG NO. D20R86
WR: 130045 IWR: 1209-40-441

☐ INACCESSIBLE ☐ 13KV ☐ FUTURE 23KV ☒ 23KV ☐ SALT SPRAY ☐ NULL



LOCATION SKETCH
N.T.S.

"AS BUILT" RECORD
WORK ORDERS WITH A DATE IN THE AS BUILT COLUMN ARE BUILT EFFECTIVE THAT DATE. FIELD ENGINEERED CHANGES HAVE BEEN MADE TO THE TRACING BUT PROPOSED SYMBOLS HAVE NOT BEEN CHANGED TO EXISTING AND NOTE AND LOC NUMBERS HAVE NOT BEEN REMOVED.

SE FEDERAL HWY (US 1)

R/W

SE COVE RD

SE PINE AVE

SE SUMMERFIELD WAY

#9800
WALGREENS
4 SETS 4#350MCM

BUILDING SITE 2
(PHASE 2)
3-4" COND W/3-600MCM
& 1-350MCM-N

RESTAURANT

SITE 3
PROP
MCDONALD

FUTURE
SITE 4
BANK

T-2
3Ø-300KVA (120/208V)
6-7153-5855-0-2
2 1200A MAINS

T-3
3Ø-150 (120/208V)
6-7153-6250-0-2
600/5 CT 60S

T-1
3Ø-150 (120/208V)
6-7153-5563-0-2
300/5 CT
3Ø-5W3 METER

A8516-1
8517-1
C8518-1
FRAME PER UH-15.6.2
1-5" U-GUARD
ON W. QUAD
FUSE 3Ø @ 65 "X"
6-7153-5065-0-0

TRANSMISSION POLE

40'/3H
900A DISC SW'S
ON E. FACE OF POLE
6-7153-5065-1-8
SW # 72193
REMOVE

48" SPL BOX
TDR SPL BOX
UN-18.0.0

50'/3H
SET 11.5' DEEP
3-900AMP 27KV
6-7153-5064-0-2
SW#73130
FRAME PER UH-15.6.1
5" PVC U-GUARD
E/S/O POLE

SW. 72188
3-568T 23KV N 3/0T-N
INSTALL
3-900A 25KV DISC SW'S
ON W. FACE OF POLE
6-7153-5658-0-8
SW # 72192
SWITCH NOT INSTALLED

3-100A 25KV
1-5" U-GUARD
ON E. QUAD
FUSE @ 40 "K"
6-7153-6051-0-1
8516-8
8517-8
8518-8

INST. 48" SPL BOX
FOR FUT BANK CKT.
PRIMARY CABLE

BORE UNDER ROAD TO
OVERHEAD FEEDER IN REAR

3 SETS 4-400MCM EA N 3" COND

ATTENTION
PLEASE PROVIDE STREET ADDRESSES FOR THIS AREA.

The location and existence of any facilities may not be relied upon by the supplier in responding to a bid or in complying with any contract. Supplier is responsible for evaluating site conditions both above and below ground including underground facility locations.

CONSTRUCTION NOTES - WR# 2630023
REQUIRED DRAWINGS
D20K101
D20C135
ADDITIONAL CONSTRUCTION NOTES
LOCATION 1: RE-PLACE 3-10 AMP W/ 3-40 AMP FUSES ALL 3 PHASES @ LG LOOP
A8516, 8517, C8518
LOCATIONS 2 TO 3: INSTALL 3PN1C 1/0 TPX PRIMARY CABLE TO TRANSFORMER @ LOCATION 3/ SANDY COVE PLAZA/ CUSTOMER INSTALLED 5" PVC PIPE
LOCATION 3: INSTALL 1-300 KVA DY TX / 120/208 VOLT CABLE THROUGH TX
LOCATIONS 3 TO 4: INSTALL 3PN1C 1/0 TPX PRIMARY CABLE TO TRANSFORMER @ LOCATION 4/ MC DONALDS RESTAURANT/ CUSTOMER INSTALLED 5" PVC PIPE
LOCATION 4: INSTALL 1-150 KVA DY TX / 120/208 VOLT CABLE THROUGH TX
LOCATIONS 4 TO 5: INSTALL 3PN1C 1/0 TPX PRIMARY CABLE WHERE CUSTOMER STOPPED AT BANK SITE (INSTALL 1-5" PVC CONDUIT)
LOCATION 5: INSTALL 1-48" SPLICE BOX AND INSTALL 3PN1C BACK TO THE PROPOSED RISER POLE AT LOCATION 6. PLEASE BORE UNDER ROAD TO GET BACK TO LOCATION 6.
LOCATION 6: INSTALL 3-100 AMP SWITCHES & FUSE @ 40 AMPS/ INSTALL RISER AND CONNECT TO UNDERGROUND CABLE

TRENCH NOTES
EASEMENT: 10 FEET REAR
MAINTAIN A MINIMUM OF 12" SEPARATION FROM ALL OTHER UTILITIES
CUSTOMER INSTALLED CONDUIT
CUSTOMER INSTALLED BACKBONE CONDUIT
CUSTOMER INSTALLED SERVICES CONDUIT
CABLE
3PN1C IS 350 #1/0A 25KV-XPE IN 1-6" PVC WITH 36" MIN COVER
OTHER NOTES
ALL SERVICES TO BE INSTALLED, OWNED AND MAINTAINED BY THE CUSTOMER
STANDARD NOTES
ALL CABLE AND/OR CONDUIT ENDS ARE TO BE MARKED WITH AN ELECTRONIC MARKER
(XXX') DENOTES CABLE PULL DISTANCE
UNDERGROUND OBSTRUCTIONS ARE TO BE LOCATED PRIOR TO DIGGING
INSTALL NEUTRAL BOND FOR COMMUNICATION COMPANIES AT ALL SINGLE PHASE TRANSFORMERS PER D.C.S., G-11.0.0
UTILITY CONTACT LIST
CALL SUNS-NE 1-800-432-4770

REFERENCE DWG's
D20CK135 (SCH)

TWNP: 38S, RNG: 41E, SEC: 26N, QTR:

BSUBUT	AUTH NO.	NO.	DATE	REVISION
09/14/07	2630023	4	05/01/37	INST. JC, FRI AND PMTX'S TO SVC SANDY COVE PLAZA AND MCDONALDS - CHANGE N.O.
	2427391	3	10/19/06	PULL PRIMARY CABLE & INST 3Ø TX'S TO PROVIDE SVC TO SHADY COVE PLAZA
	953200	2	05/24/04	INST FOR D.P. AND PULL PRI CBL AND INST. TX TO SVC WALLGREENS - SW NOT INST'D PER WBD 11-4-04
	953200	1	03/25/04	PULL CABLE, INSTALL TX TO PROVIDE SERVICE TO WALGREENS STORE

AS-BUILT COPY — Initials / Date
AS-BUILT CREW PRINT — Foreman's Signature / Date
Job CERTIFIED COMPLETE as shown on this AS-BUILT print. Material changes shown on RDS.
Supervisor's Signature / Date
All required ground rods Have been driven & verified to be within FPL standards Values are shown at all locations.
Foreman's Signature / Date

Easement?	YES ☒ NO ☐	Survey/Stake?	YES ☒ NO ☐
Tree Work?	YES ☐ NO ☒	Designer/Stake?	YES ☐ NO ☒
Map Posting?	YES ☒ NO ☐	Trench Feet	950±
Posted by		Telephone Request?	YES ☐ NO ☒

Work with SMO? YES ☐ NO ☒
CT/Special Mtr? YES ☐ NO ☒
Duct Bank Feet
CATV Request? YES ☐ NO ☒

DESIGNED BY	BLANDINELLI
DRAWN BY	READAL
DATE	05/01/07
MAP NO.	AG-0523

0 25 50 100 FEET

WR: TC
SHADY COVE PLAZA
S/W/COR US 1 & COVE RD
STUART/MARTIN COUNTY, FL

DWG NO. D20R101
WR: 2630023 WR: 9355-43-441

PLOT DATE: 8/23/2008 PLOT TIME: 8:27:44 AM CAD NAME: RJB

Hotwire Communications



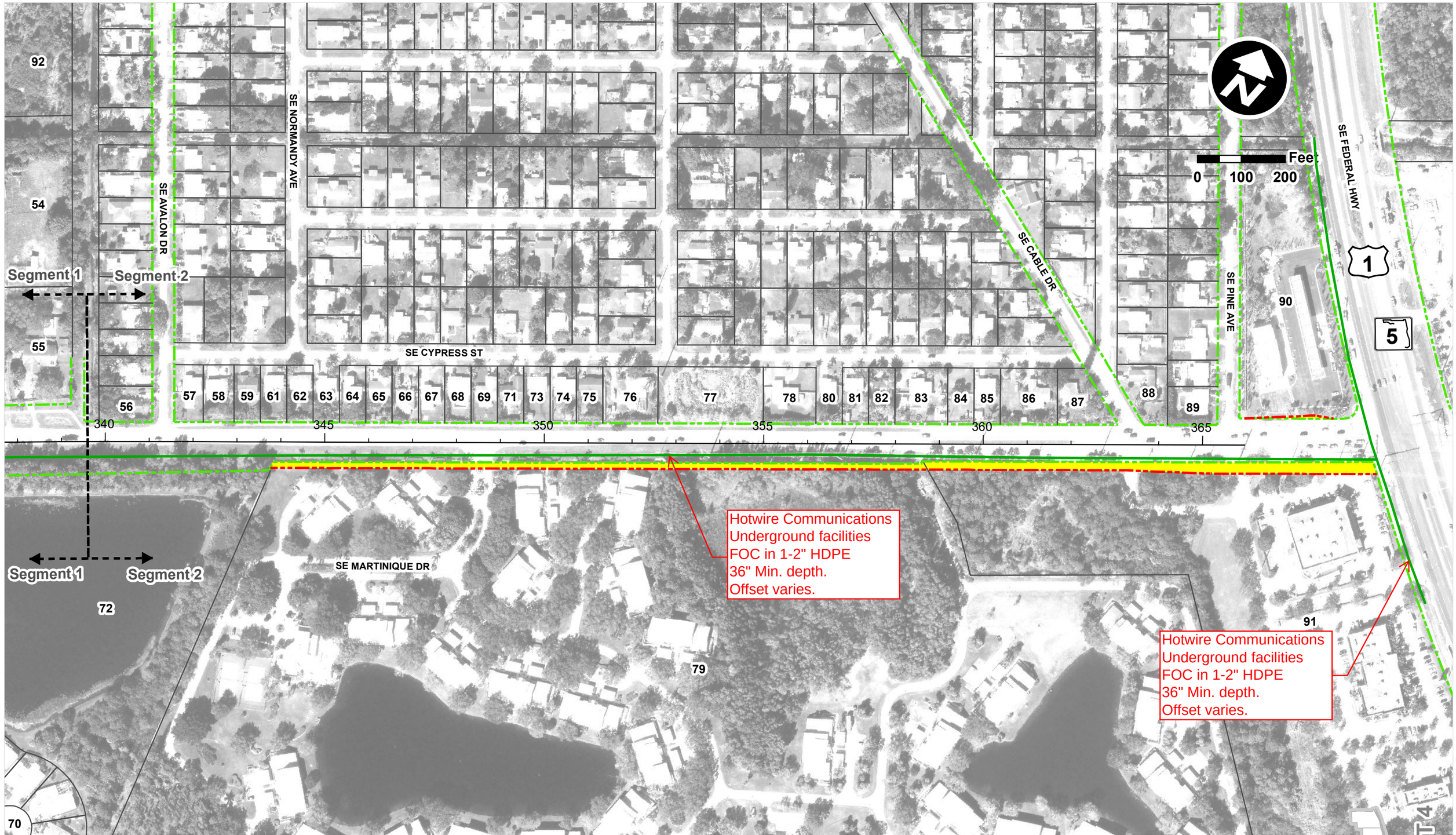
Cove Road PD&E Study
from SR 76/Kanner Hwy. to SR 5/US 1
Martin County, Florida
FPID: 441700-1
Federal ID: D421-137-B

Legend

- Proposed R/W
- Existing R/W Line
- Parcel Impact
- Property Line

Right of Way Impacts
Segment 1 Typical Section 1 B

MARTIN
DISTRICT 4



Cove Road PD&E Study
from SR 76/Kanner Hwy. to SR 5/US 1
Martin County, Florida
FPID: 441700-1
Federal ID: D421-137-B

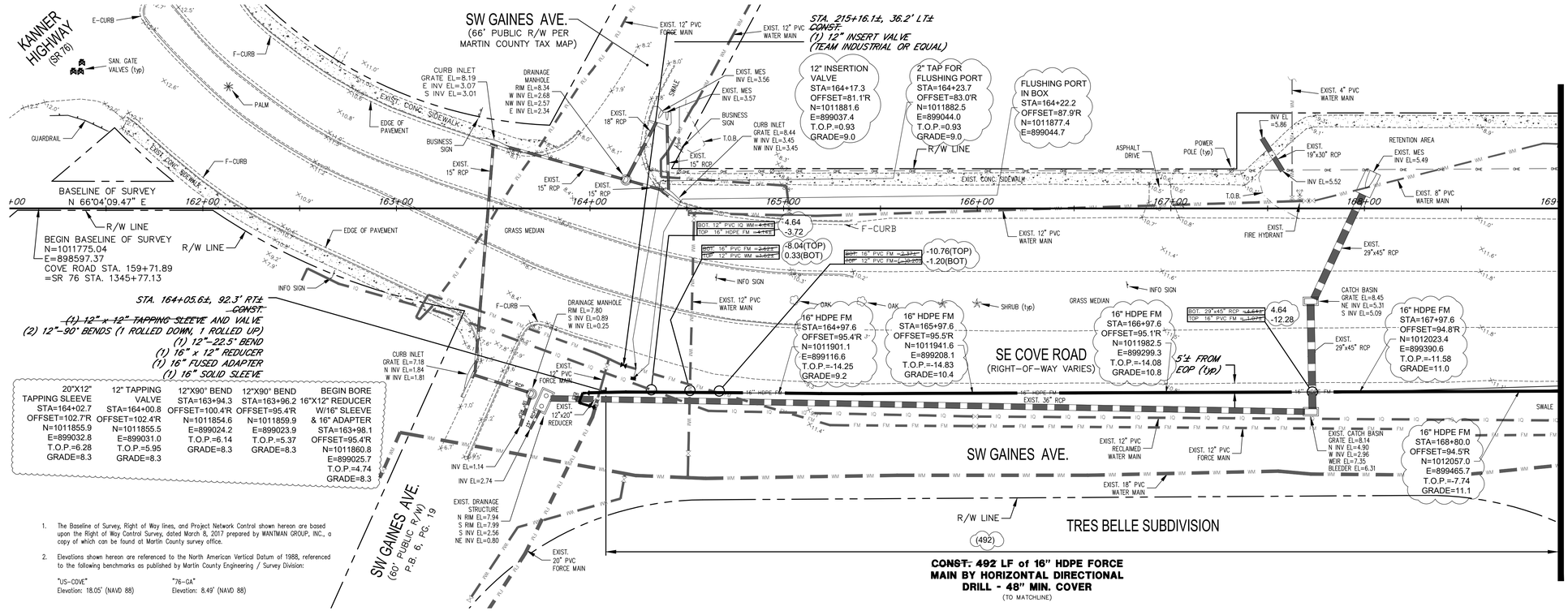
Legend

- Proposed R/W
- Existing R/W Line
- Parcel Impact
- Property Line

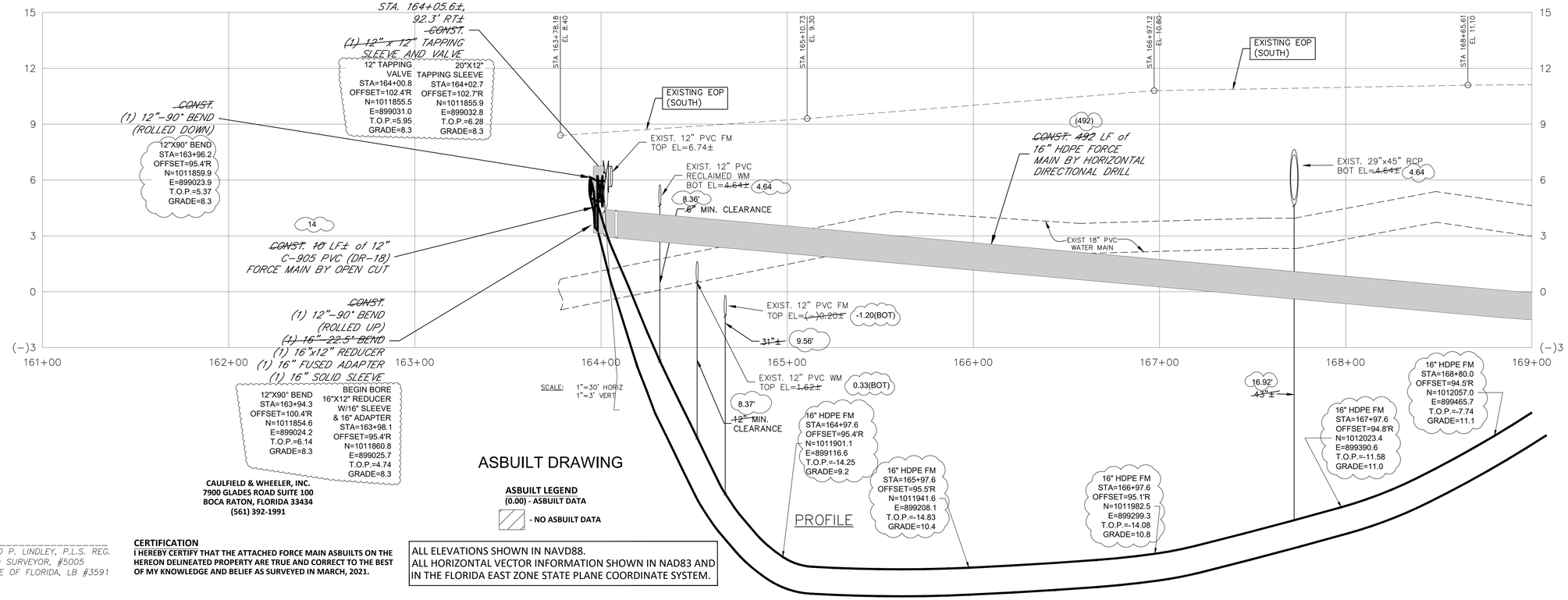
Right of Way Impacts
Segment 2 Typical Section 2D
No Sidewalk Changes

MARTIN
DISTRICT 4

Martin County Utilities



PLAN



DAVID P. LINDLEY, P.L.S. REG. LAND SURVEYOR, #5005 STATE OF FLORIDA, LB #3591

CERTIFICATION
I HEREBY CERTIFY THAT THE ATTACHED FORCE MAIN ASBUILTS ON THE HEREON DELINEATED PROPERTY ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AS SURVEYED IN MARCH, 2021.

ALL ELEVATIONS SHOWN IN NAVD88.
ALL HORIZONTAL VECTOR INFORMATION SHOWN IN NAD83 AND IN THE FLORIDA EAST ZONE STATE PLANE COORDINATE SYSTEM.

C&W #9131

Cove Road
MARTIN COUNTY, FL
FORCE MAIN EXTENSION
PLAN & PROFILE

REVISIONS	DATE	BY

DATE: AUG 2018
SCALE: AS SHOWN
DESIGN: SJV
DRAWN: SJV
CHECKED: J.A.C.
DWG: CoveRd-FMExt-PP.dwg

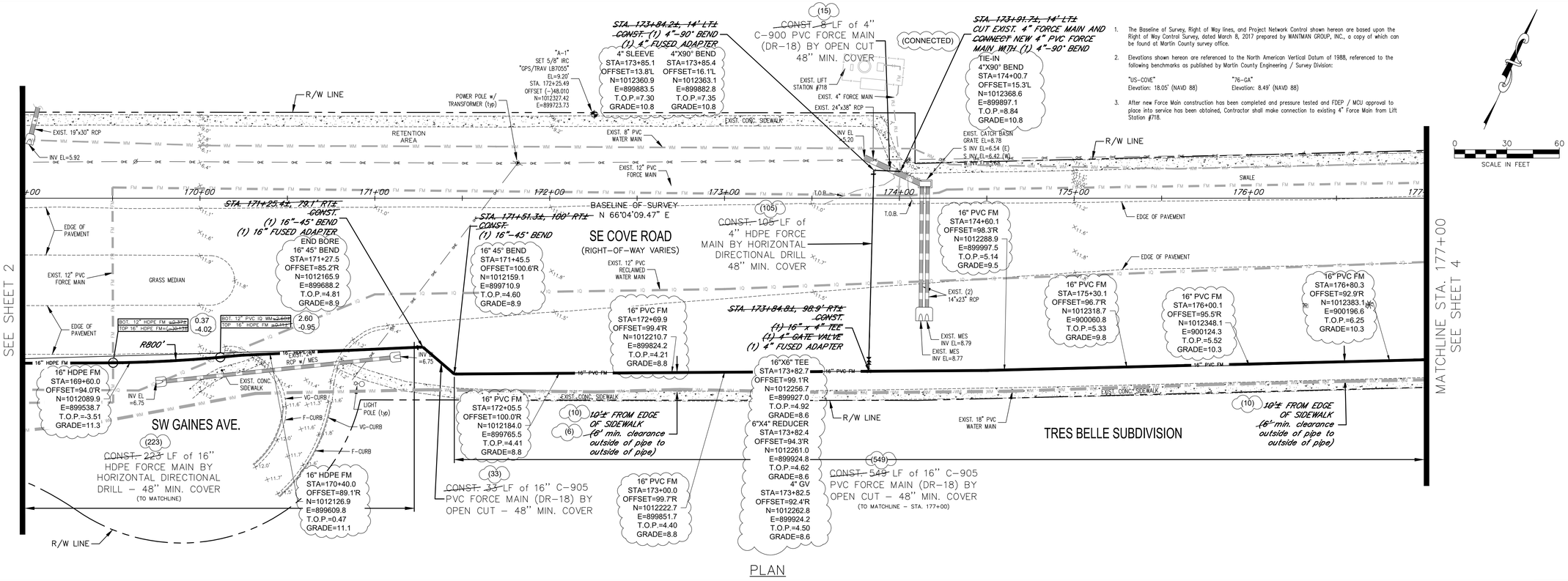
MARTIN COUNTY UTILITIES
2378 S.E. OCEAN BOULEVARD
STUART, FLORIDA 34995-9000
Phone: (772) 221-1442 Fax: (772) 221-1447

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JEREMY A. COVEY, P.E.
FLORIDA REGISTRATION
No. 75472

SHEET **2** OF **11**

Drawing name: P:\09131-00-00\drawings\Survey\ASBUILTS\09131 ASB FM COVE RD.dwg Sheet 2 Dec 23, 2022 8:54am by: Tommy

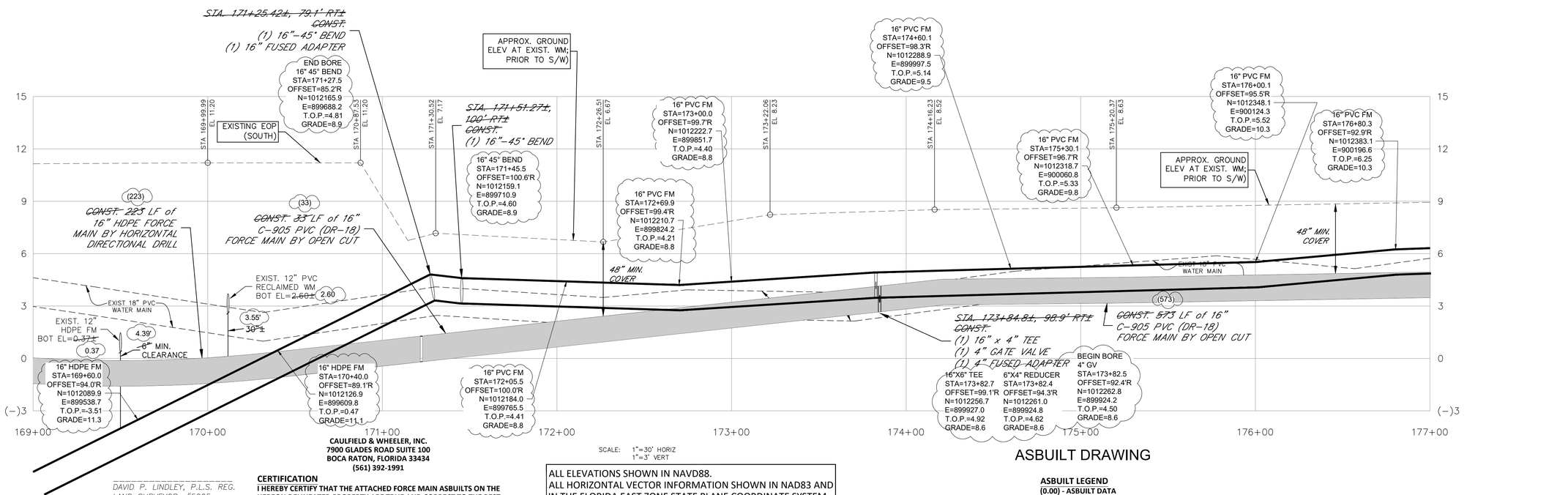


PLAN

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"US-COVE"	"76-GA"
Elevation: 18.05' (NAVD 88)	Elevation: 8.49' (NAVD 88)

3. After new Force Main construction has been completed and pressure tested and FDEP / MCU approval to place into service has been obtained, Contractor shall make connection to existing 4" Force Main from Lift Station #718.



PROFILE

SCALE: 1"=30' HORIZ
1"=3' VERT

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ASBUILT DRAWING

ASBUILT LEGEND
(0.00) - ASBUILT DATA
- NO ASBUILT DATA

CAULFIELD & WHEELER, INC.
7900 GLADES ROAD SUITE 100
BOCA RATON, FLORIDA 33434
(561) 392-1991

_____
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Cove Road
MARTIN COUNTY, FL
FORCE MAIN EXTENSION
PLAN & PROFILE

REVISIONS	DATE	BY
ADDED CONNECTION TO NEW 16" FORCE MAIN FROM LIFT STATION # 718	5-5-20	SJV

DATE: AUG 2018
SCALE: AS SHOWN
DESIGN: SJV
DRAWN: SJV
CHECKED: J.A.C.
DWG: CoveRd-FMExt-PP.dwg

MARTIN COUNTY UTILITIES
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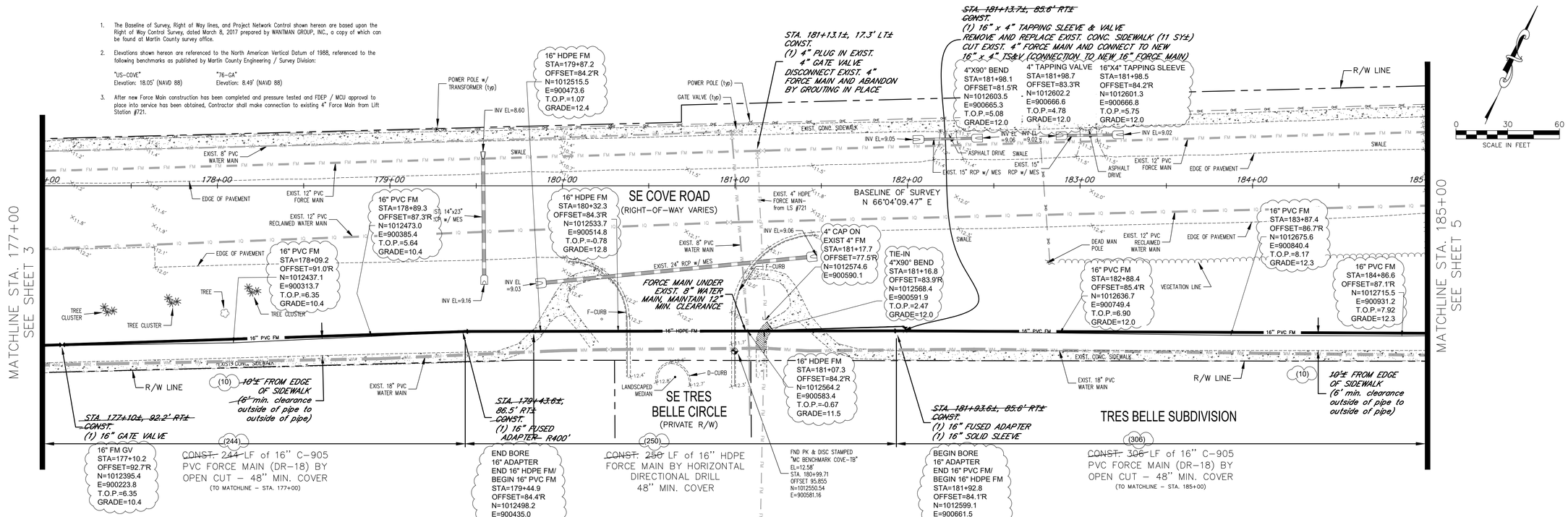
Drawing name: P:\09131-00-00\drawings\Survey\ASBUILTS\09131 ASB FM COVE RD.dwg Sheet 3 Feb 22, 2023 11:36am by: Tommy

1. The Baseline of Survey, Right of Way lines, and Project Network Control shown hereon are based upon the Right of Way Control Survey, dated March 8, 2017 prepared by WANTMAN GROUP, INC., a copy of which can be found at Martin County survey office.

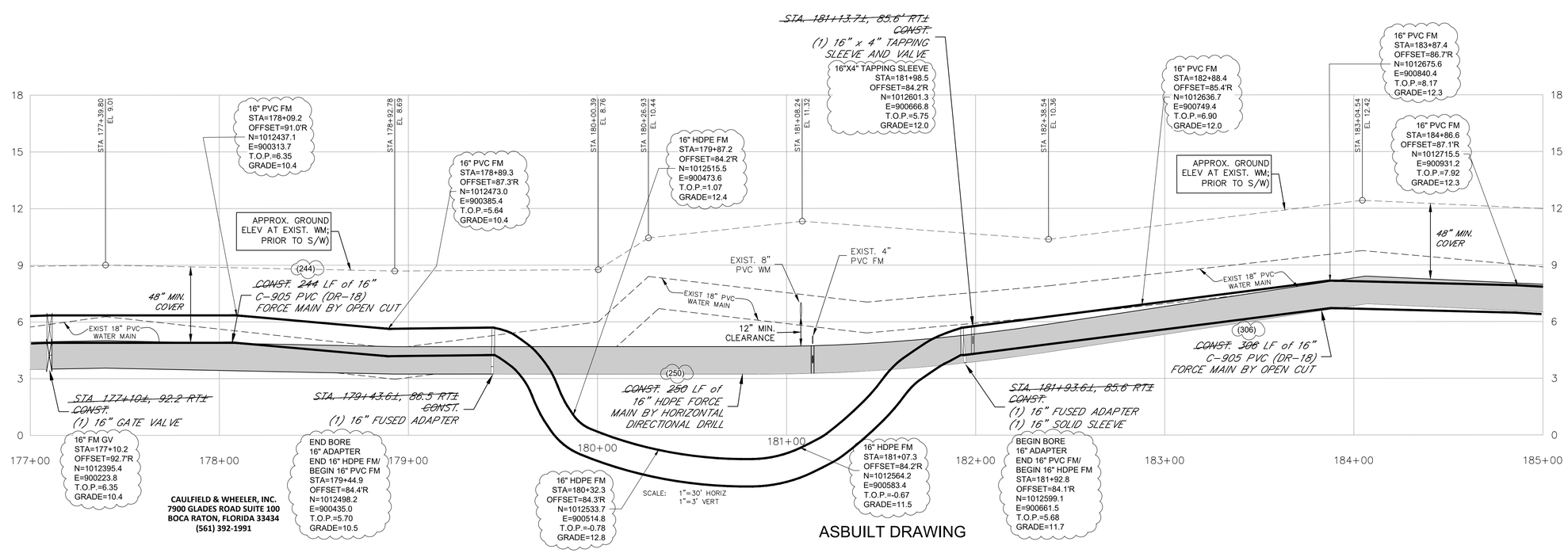
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   "76-GA" Elevation: 8.49' (NAVD 88)

3. After new Force Main construction has been completed and pressure tested and FDEP / MCU approval to place into service has been obtained, Contractor shall make connection to existing 4" Force Main from Lift Station #721.



PLAN



ASBUILT DRAWING

PROFILE

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CAULFIELD & WHEELER, INC.
7900 GLADES ROAD SUITE 100
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(561) 392-1991

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ASBUILT LEGEND
(0.00) - ASBUILT DATA
- NO ASBUILT DATA

C&W #9131

Cove Road
MARTIN COUNTY, FL
FORCE MAIN EXTENSION
PLAN & PROFILE

REVISIONS	DATE	BY
ADDED CONNECTION TO NEW 16" FORCE MAIN FROM LIFT STATION # 721	5-5-20	SJV

DATE: AUG 2018
SCALE: AS SHOWN
DESIGN: SJV
DRAWN: SJV
CHECKED: J.A.C.
DWG: CoveRd-FMExt-PP.dwg

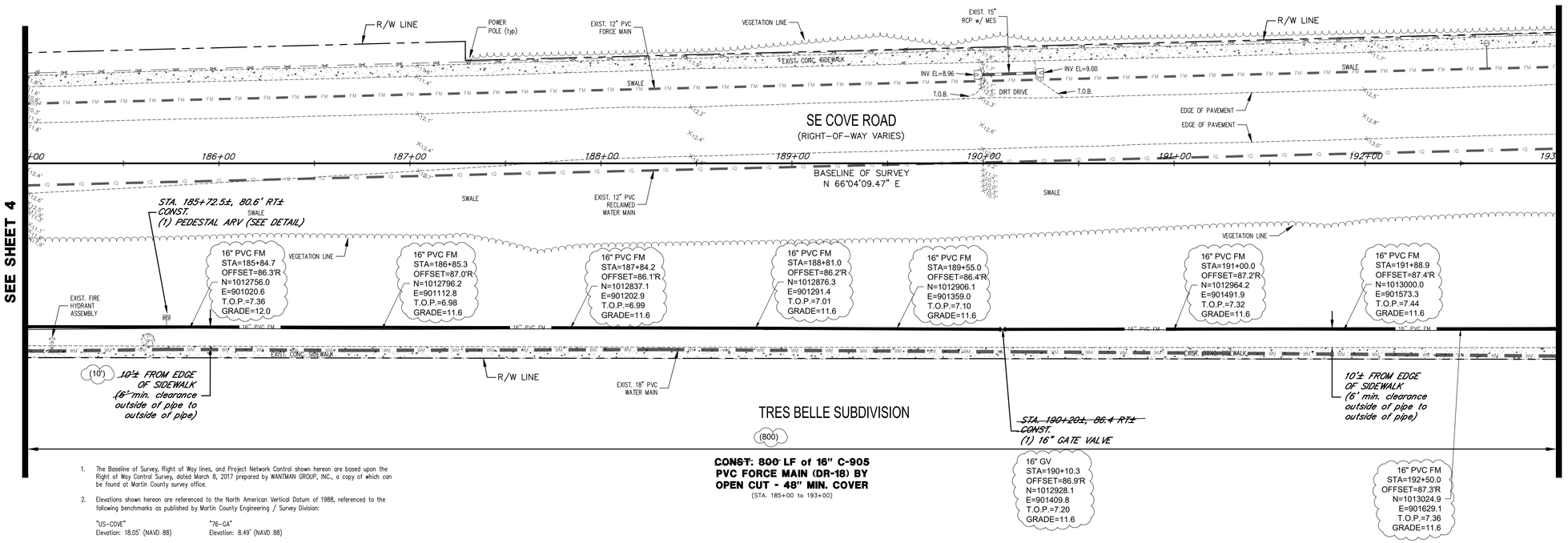
MARTIN COUNTY UTILITIES
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SHEET 4 OF 11

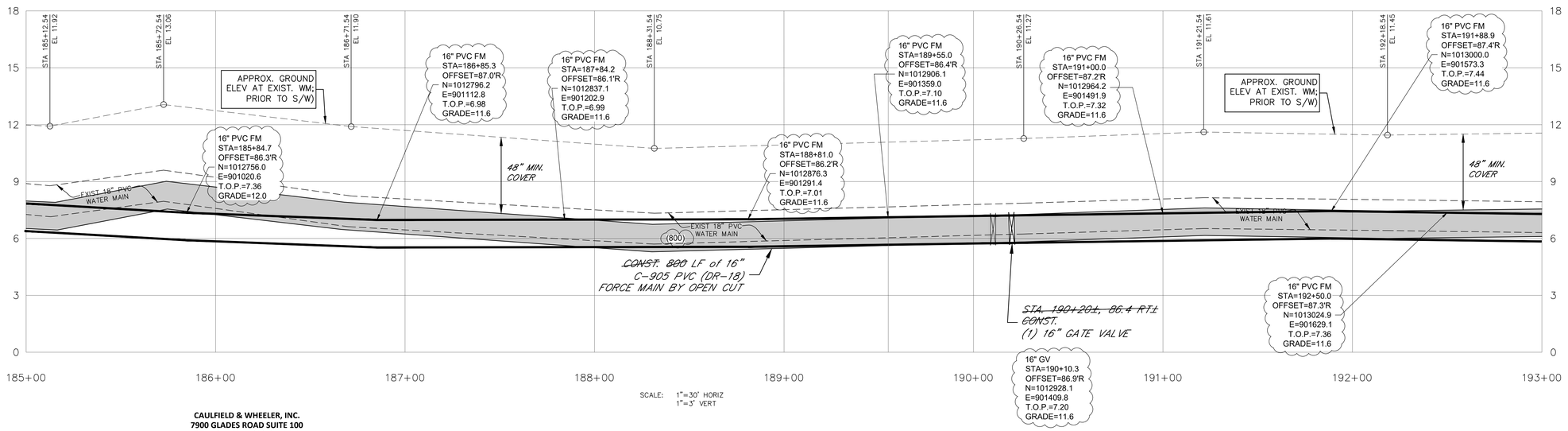
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PLAN



SCALE: 1"=30' HORIZ
1"=3' VERT

ASBUILT DRAWING

PROFILE

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ASBUILT LEGEND
(0.00) - ASBUILT DATA
- NO ASBUILT DATA

C&W #9131

Cove Road
MARTIN COUNTY, FL
FORCE MAIN EXTENSION
PLAN & PROFILE

REVISIONS	DATE	BY

DATE: AUG 2018
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DESIGN: SJV
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CHECKED: J.A.C.
DWG: CoveRd-FMExt-PP.dwg

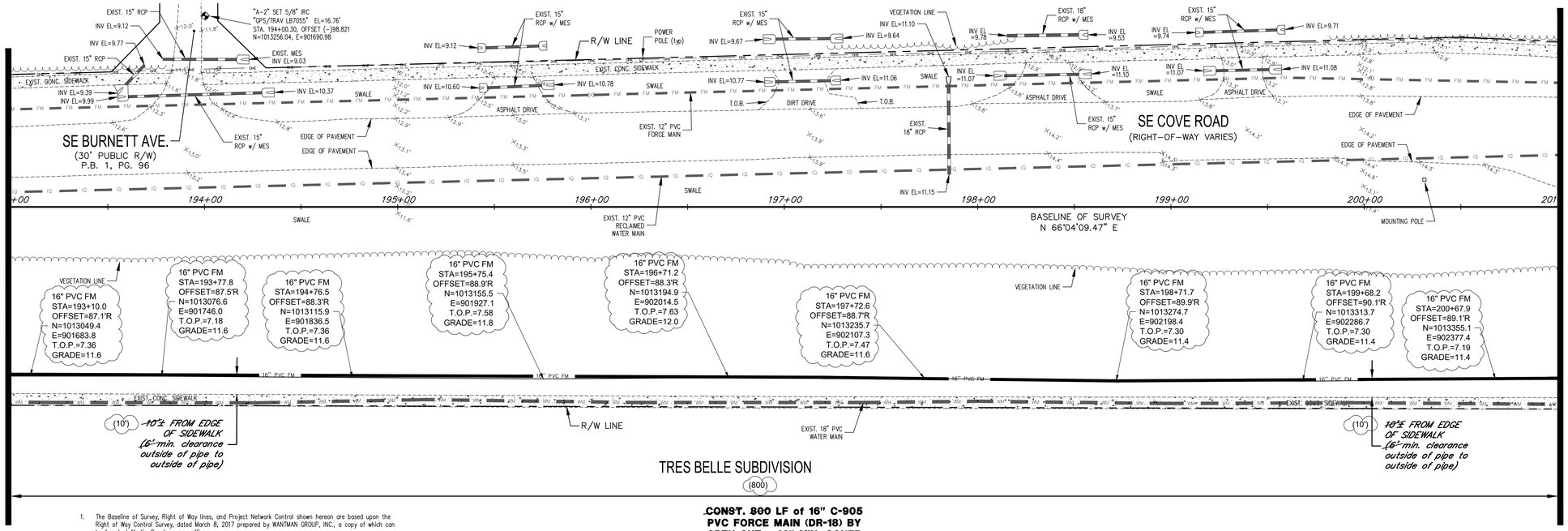
MARTIN COUNTY UTILITIES
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JEREMY A. COVEY, P.E.
FLORIDA REGISTRATION
No. 75472

SHEET **5** OF **11**

Drawing name: P:\09131-00-00\drawings\Survey\ASBUILTS\09131 ASB FM COVE RD.dwg Sheet 5 Dec 21, 2022 10:37am by: Tommy



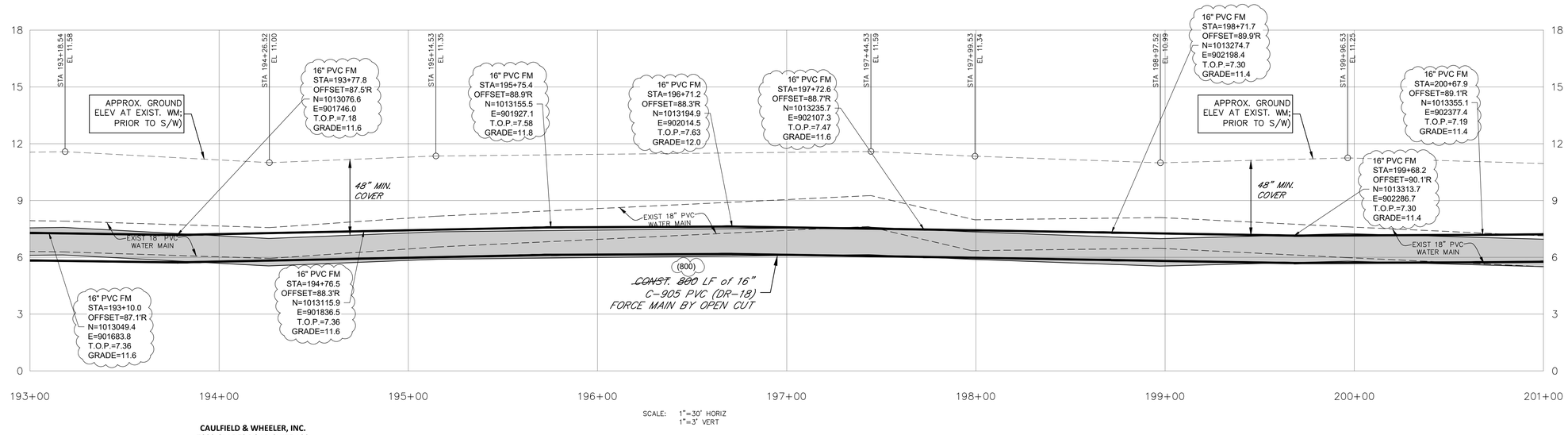
PLAN

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SCALE: 1"=30' HORIZ
1"=3' VERT

ASBUILT DRAWING

PROFILE

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(0.00) - ASBUILT DATA
- NO ASBUILT DATA

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7900 GLADES ROAD SUITE 100
BOCA RATON, FLORIDA 33434
(561) 392-1991

C&W #9131

Cove Road
MARTIN COUNTY, FL
FORCE MAIN EXTENSION
PLAN & PROFILE

REVISIONS	DATE	BY

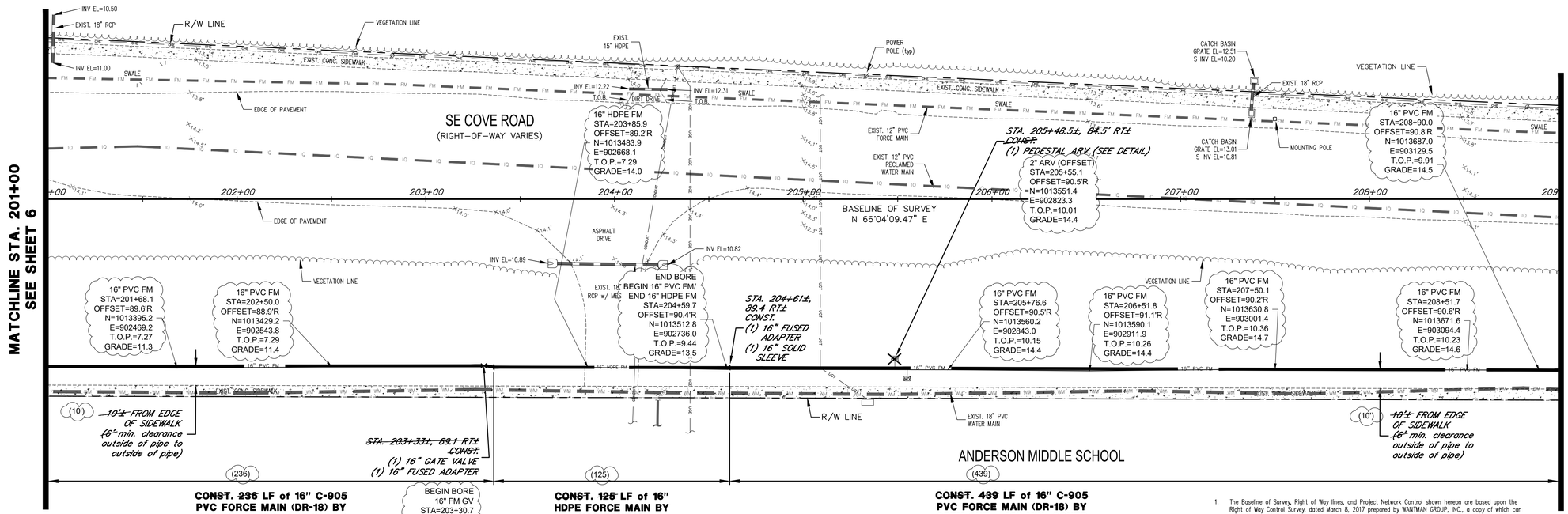
DATE: AUG 2018
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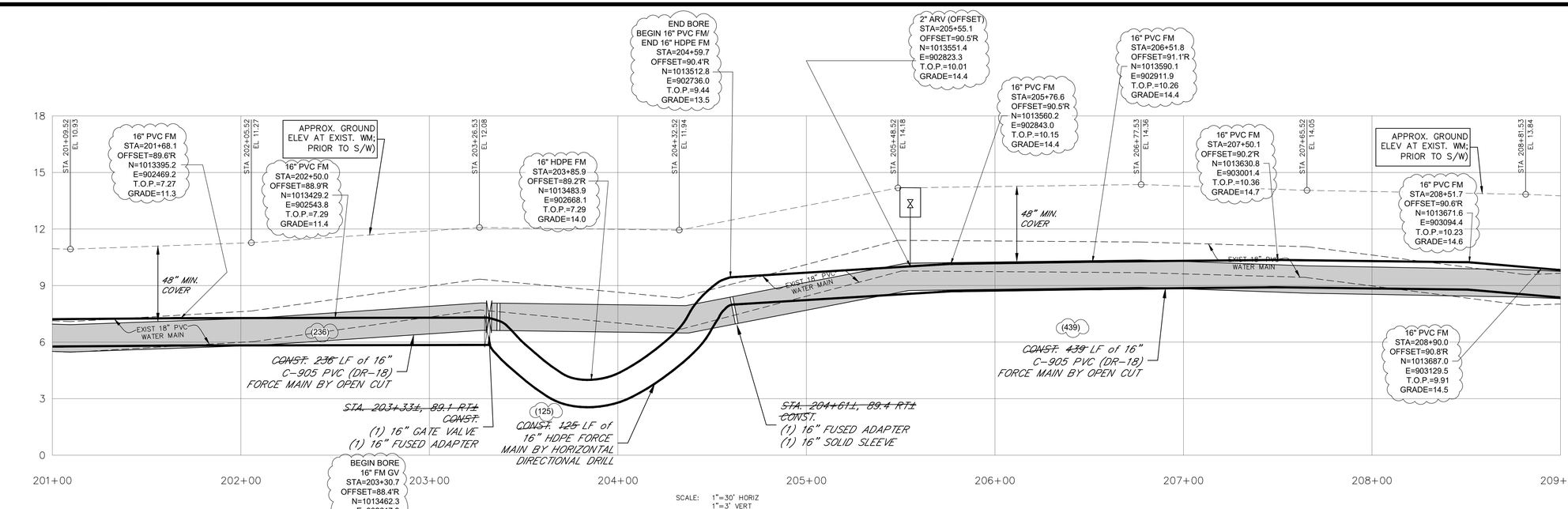
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PLAN

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SCALE: 1"=30' HORIZ
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ASBUILT DRAWING

PROFILE

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(0.00) - ASBUILT DATA
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C&W #9131

Cove Road
MARTIN COUNTY, FL
FORCE MAIN EXTENSION
PLAN & PROFILE

REVISIONS	DATE	BY

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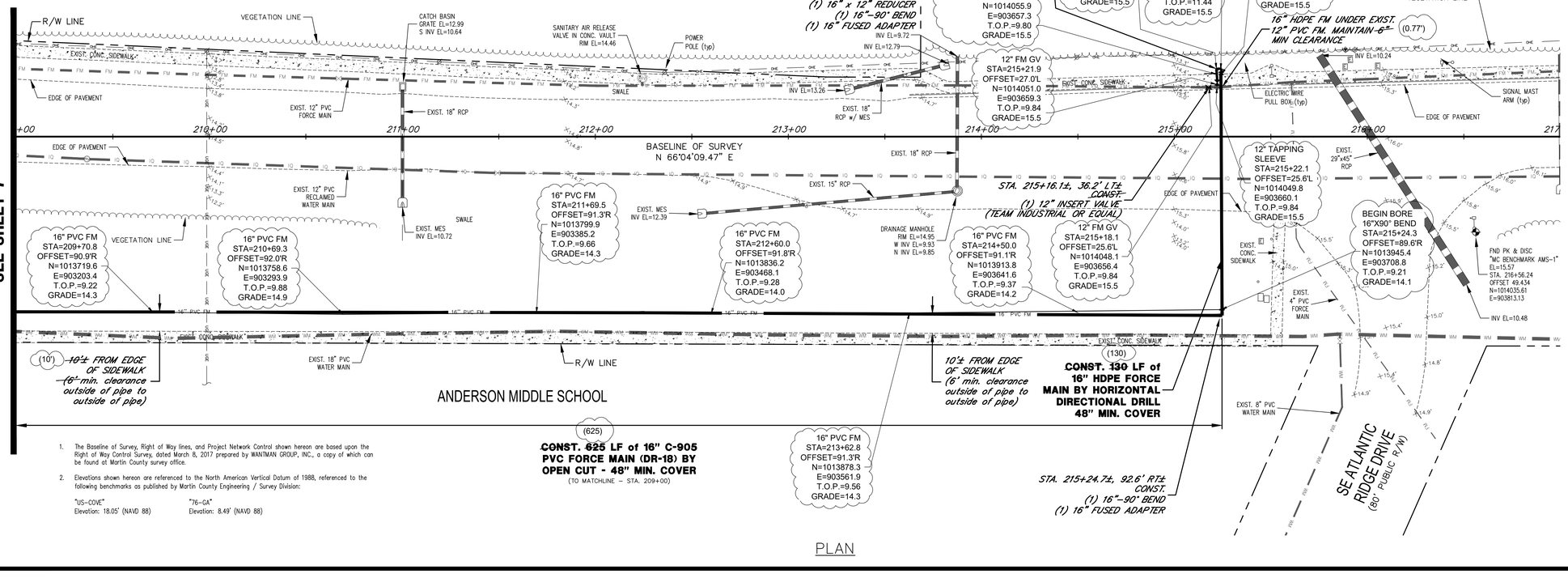
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FLORIDA REGISTRATION
No. 75472

SHEET **7** OF **11**

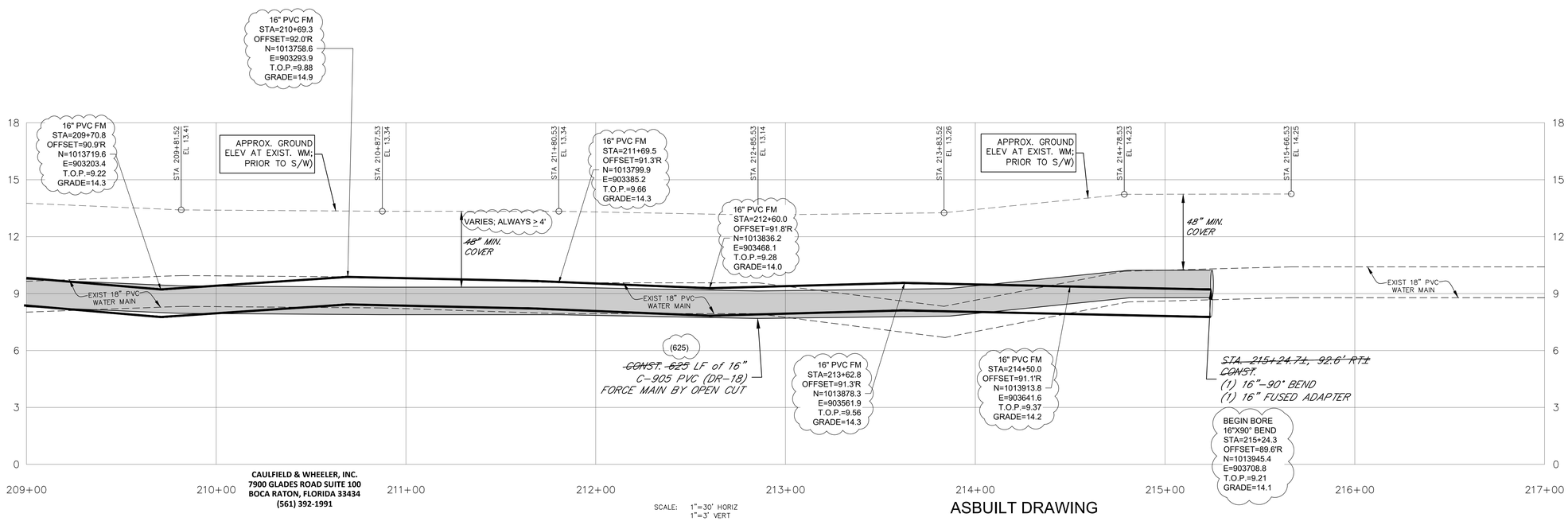
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PLAN

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SCALE: 1"=30' HORIZ
1"=3' VERT

ASBUILT DRAWING

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LAND SURVEYOR, #5005
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PROFILE

ASBUILT LEGEND
(0.00) - ASBUILT DATA
- NO ASBUILT DATA

C&W #9131

Cove Road
MARTIN COUNTY, FL
FORCE MAIN EXTENSION
PLAN & PROFILE

REVISIONS	DATE	BY

DATE: AUG 2018
SCALE: AS SHOWN
DESIGN: SJV
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SHEET **8** OF **11**

Drawing name: P:\09131-00-00-00\drawings\Survey\ASBUILTS\09131 ASB FM COVE RD.dwg Sheet 8 Dec 21, 2022 10:38am by: Tommy

SEE SHEET 17

SEE SHEET 19

WETLAND PRESERVE NO. 33

WETLAND PRESERVE NO. 21

WETLAND PRESERVE NO. 35

LAKE 1

PIN OAK WAY

DEER

6" P.V.C. RECLAIMED WATER IRRIGATION MAIN

8" P.V.C. WATER MAIN

6" P.V.C. V.M.

STA 0+90 INSTALL 6" G.V. W/TEMP PLUG

"AS BUILT" DATA - WATER

ALL FIRE HYDRANTS ARE STA. 0+00

STATIONS FOR WATER SERVICES ARE FROM FIRE HYDRANTS

4' - INDICATES LENGTH OF SERVICE

(14.50) - INDICATES ELEV. OF SERVICE (SERVICES 3.5' DEEP - TYP.)

(14.50) - INDICATES TOP OF W.M. ELEV.

9.5' (2.5') - INDICATES DISTANCE FROM BACK OF CURB TO W.M. AND DEPTH OF PIPE

"AS BUILT" DATA - SEWER

ALL MANHOLES ARE STA. 0+00

STATIONS FOR SEWER SERVICES ARE FROM NEAREST DOWNSTREAM M.H.

24' - INDICATES LENGTH OF SERVICE

(13.15) - INDICATES ELEV. OF SERVICE AT I2 (SERVICES 4.6' DEEP - TYP.)

(13.50) - INDICATES TOF OF F.M. ELEV.

9.5' (2.5') - INDICATES DISTANCE FROM BACK OF CURB TO F.M. AND DEPTH OF PIPE

PIN OAK DRIVE

20 18 16 14 12 10 8 6 4 2

STA. 10+00 EL. 18.72

STA. 11+30 M.H. #93 EL. 18.12

STA. 12+32 EL. 17.70

STA. 12+45 M.H. #94 EL. 17.87

STA. 13+83.23 M.H. #95 EL. 18.04

STA. 14+40 EL. 18.32

STA. 15+00 M.H. #97 EL. 17.72

STA. 16+18 EL. 17.70

STA. 13+83.23 M.H. #95 EL. 18.64

M.H. #96 EL. 18.80

W.M. UNDER STORM SEWER 18" MIN. VERT. SEP.

8" P.V.C. WATER MAIN

6" W.M.

160'-8" P.V.C. @ 0.40% — 160' — 0.40% — INV. 10.37 — 10.39

135'-8" P.V.C. @ 0.40% — 134' — 0.41% — INV. 11.01 — 11.04

120'-8" P.V.C. @ 0.40% — 118' — 0.41% — INV. 11.11 — 11.09

214'-8" P.V.C. @ 0.50% 0.45% — INV. 11.59 — 11.57 — INV. 11.69 — 11.70 — INV. 12.76 — 12.67

100'-8" P.V.C. @ 0.40% — 105' — 0.45% — INV. 12.36 — 13.40 — INV. 13.04 — 13.82

INV. 11.69 (EAST) 11.59 (WEST) — 11.70 — 11.57

NW-NWW-WJENSEN-JBGCC-PLAT2&3-00;018

"AS BUILT"

"RECORD DRAWING"

ROSSI AND MALAVASI ENGINEERS INC.
1615 FORUM PLACE, SUITE 502 W.P.B. FL. 33401
TEL: (561) 689-0554 FAX: (561) 689-5598

PROJECT	JENSEN BEACH GOLF AND COUNTRY CLUB			
SUBJECT	WATER DISTRIBUTION AND SEWAGE COLLECTION			
DESIGN	CHECKED	DATE OCT. 1997	PROJECT NO.	SHEET NO.
DRAWN J.L.	APPROVED	SCALE 1"=40' H 1"=8' V		18 OF 31

NOTE:
CONTRACTOR TO EXPOSE EXIST. WM & FM PRIOR TO CONST. TO VERIFY LOCATION, DEPTH, SIZE & MATERIAL AT CROSSING & CONNECTION LOCATIONS

24"x8" TEE W\ 24" MJ PLUG
RESTRAIN 4 FULL JOINTS
2-8" 45 DEGREE BENDS
8' 90 DEGREE BEND
8"x8" WET TAP SLEEVE &
8" RS TAP VALVE

FLUSH HYDRANT
24" MJ PLUG W\
2" TAP. RESTRAIN
TO TEE.

40" WM UNDER FM
MIN. ~~36"~~ CLEAR.
W/1 FULL LENGTH
CENTERED AT CROSSING
APPROX. DEPTH TO TOP
OF WM ~~35'~~. CONTRACTOR
TO VERIFY. 6.5

CONST. 8" BELL CLAMP
RESTRAIN TO CASING.

24" WM UNDER
8" WM

CONTRACTOR TO
SUPPORT PROP.
TRAFFIC LIGHT POLE.

6" FM

12" WM
COVE RD.

2-24" 45 DEGREE BENDS

PROP. 24" WM

PROP. E/P

EXIST. E/P

U.S. HWY. 1

FLUSH HYDRANT
24" MJ PLUG W\
2" TAP. RESTRAIN
4 FULL JOINTS
SAMPLE POINT #1

CONTRACTOR TO DEFLECT WM
TO CLEAR FORCE MAIN AT CROSSING.

1-20" 45 DEGREE BEND
20" MJ PLUG W\2" TAP
FLUSH HYDRANT
RESTRAIN 4 FULL JOINTS
SAMPLE POINT #2 UG(SBT)

S.E. BOSTUCK AVE.

2" FM

8" FM

SBT BOX

PROP. E/P

EXIST. E/P

WM UNDER FM
MIN. ~~36"~~ CLEAR-20"
W/ 1 FULL LENGTH
CENTERED AT CROSSING
APPROX. DEPTH TO TOP
OF WATERMAIN 5'.

PROP. 20" WM

~~30"~~ 24" WM UNDER 12" WM

12" WM

2-24" BCCMP

COVE RD.

PROP. E/P

16" X 25" BCCMP

1-20"45 DEGREE BEND

EXIST. E/P

12" CMP

12"x10" WET TAP SLEEVE
& 10" RS TAP VALVE
2-10" 45 DEGREE BENDS
20"x10" TEE W\ 20" MJ PLUG
RESTRAIN 4 FULL JOINTS

UG(FPL)

UG(SBT)

N

0 20 40 60 FEET

LEGEND

EXIST. 6" WM	EXIST. WM & GV
EXIST. 6" FM	EXIST. FM
	EXIST. FIRE HYDRANT
	EXIST. WATER SERVICE
	EXIST. STORM SEWER
	PROPOSED WM & GV

RECORD DRAWING

SHEET 2 OF 3

COVE RD. & U.S.1 WATERMAIN

SCALE: 1"=20'	APPROVED BY: JOHN POLLEY	DRAWN BY: W.D.
DATE: 11/6/92		DESIGN BY: W.D.

MARTIN COUNTY UTILITIES

REVISIONS: 1. CHANGE PER DOT 12\15\92.
2. REMOVE JACK & BORE 1/12/93
3. REVISE WEST SIDE WM 7/22/93 W.D.
4. RECORD INFORMATION 11/22/93 W.D.

DRAWING NO. 92-SW-019

SCW-COVEAUS1-92-002

COVE ROAD

PLAN AND PROFILE

RECORD DRAWING

SHEET 1 OF 10

COVE ROAD

PLAN AND PROFILE

RECORD DRAWING

SHEET 2 OF 10

COVE ROAD

PLAN AND PROFILE

RECORD DRAWING

SHEET 3 OF 10

COVE ROAD

PLAN AND PROFILE

RECORD DRAWING

SHEET 4 OF 10

COVE ROAD

PLAN AND PROFILE

RECORD DRAWING

SHEET 5 OF 10

COVE ROAD

PLAN AND PROFILE

RECORD DRAWING

SHEET 6 OF 10

COVE ROAD

PLAN AND PROFILE

RECORD DRAWING

SHEET 7 OF 10

COVE ROAD

PLAN AND PROFILE

RECORD DRAWING

SHEET 8 OF 10

COVE ROAD

PLAN AND PROFILE

RECORD DRAWING

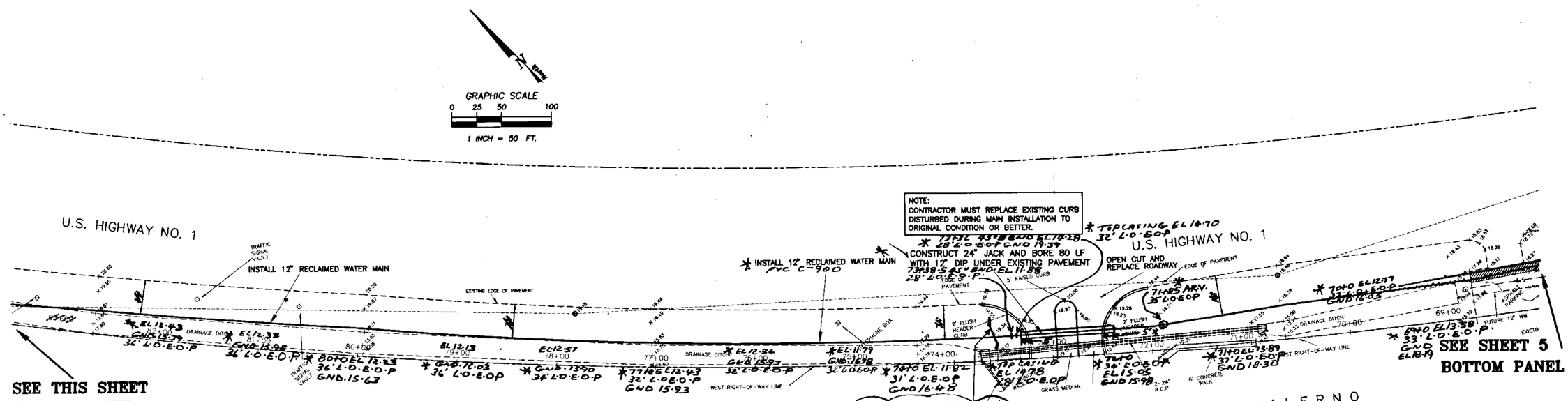
SHEET 9 OF 10

COVE ROAD

PLAN AND PROFILE

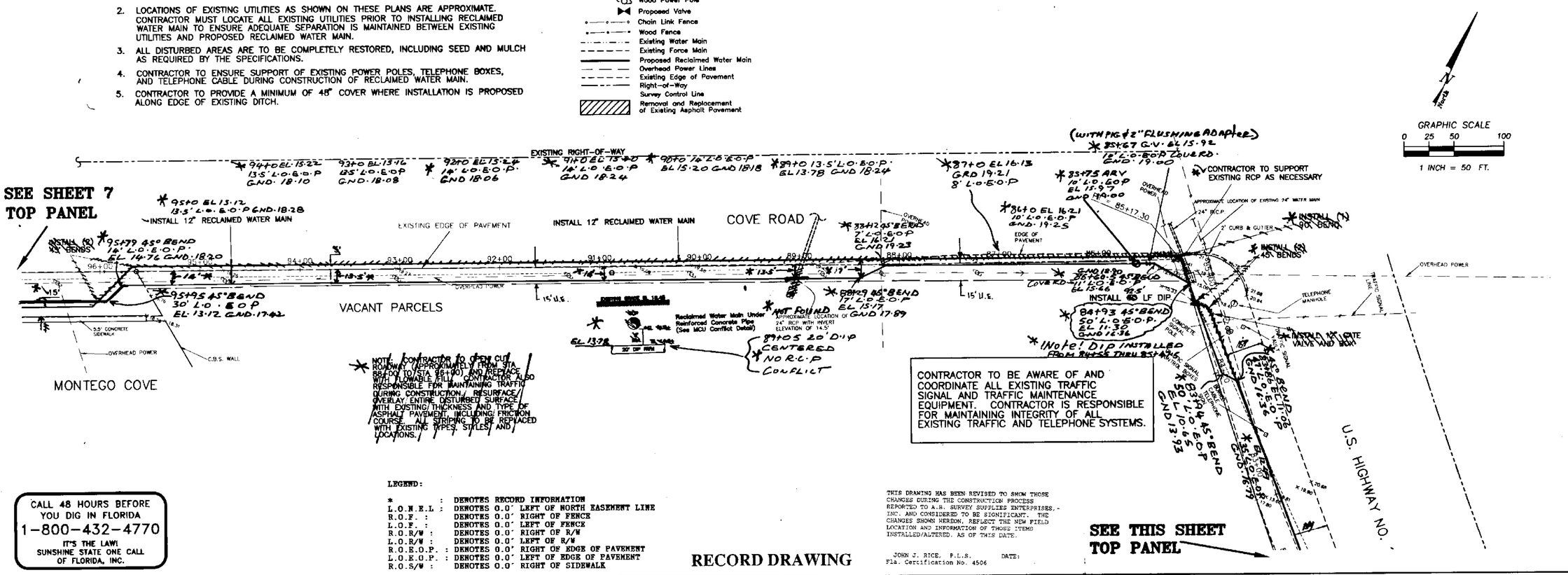
RECORD DRAWING

SHEET 10 OF 10



NOTES:

1. ALL CONSTRUCTION SHOWN ON THESE PLANS MUST COMPLY WITH THE MARTIN COUNTY UTILITIES DEPARTMENT MINIMUM DESIGN AND CONSTRUCTION STANDARDS. IN THE EVENT OF CONFLICTING REQUIRMENTS, THE CONTRACTOR SHALL BE RESPONSIBILE FOR COMPLYING WITH THE MORE RESTRICTIVE REQUIREMENT AT NO ADDITIONAL COST TO MARTIN COUNTY UTILITIES.
2. LOCATIONS OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE APPROXIMATE. CONTRACTOR MUST LOCATE ALL EXISTING UTILITIES PRIOR TO INSTALLING RECLAIMED WATER MAIN TO ENSURE ADEQUATE SEPARATION IS MAINTAINED BETWEEN EXISTING UTILITIES AND PROPOSED RECLAIMED WATER MAIN.
3. ALL DISTURBED AREAS ARE TO BE COMPLETELY RESTORED, INCLUDING SEED AND MULCH AS REQUIRED BY THE SPECIFICATIONS.
4. CONTRACTOR TO ENSURE SUPPORT OF EXISTING POWER POLES, TELEPHONE BOXES, AND TELEPHONE CABLE DURING CONSTRUCTION OF RECLAIMED WATER MAIN.
5. CONTRACTOR TO PROVIDE A MINIMUM OF 48" COVER WHERE INSTALLATION IS PROPOSED ALONG EDGE OF EXISTING DITCH.



CALL 48 HOURS BEFORE YOU DIG IN FLORIDA
1-800-432-4770
IT'S THE LAW!
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

LEGEND:

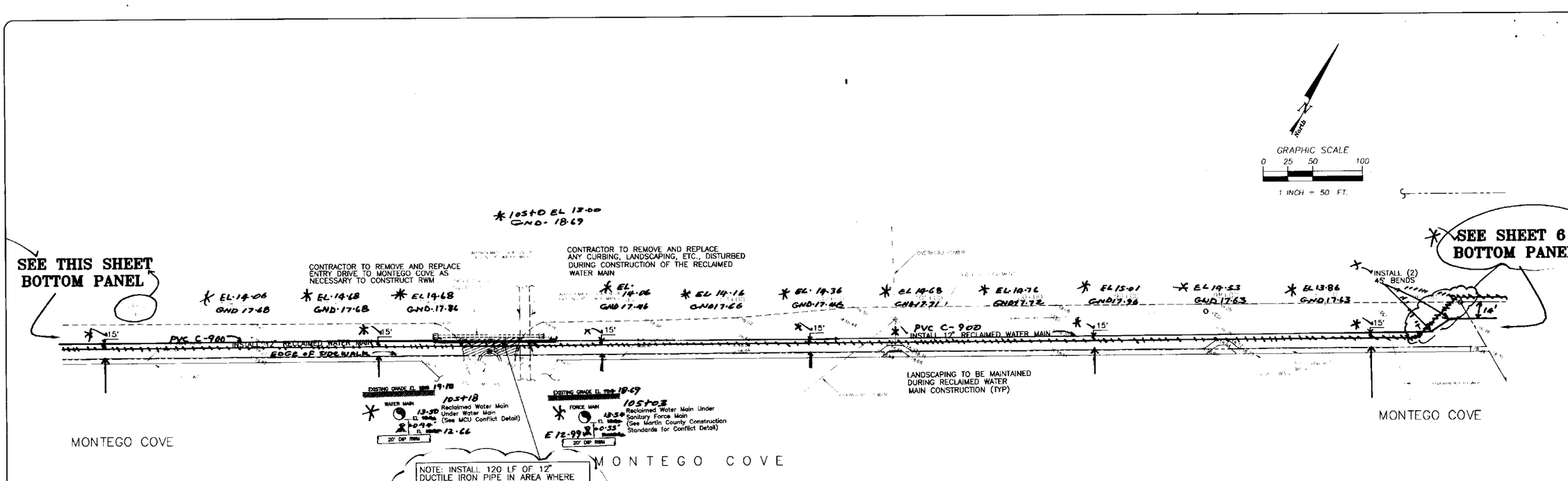
*	DENOTES RECORD INFORMATION
L.O.N.E.L :	DENOTES 0.0' LEFT OF NORTH EASEMENT LINE
R.O.F. :	DENOTES 0.0' RIGHT OF FENCE
L.O.F. :	DENOTES 0.0' LEFT OF FENCE
R.O.R/W :	DENOTES 0.0' RIGHT OF R/W
L.O.R/W :	DENOTES 0.0' LEFT OF R/W
R.O.E.O.P. :	DENOTES 0.0' RIGHT OF EDGE OF PAVEMENT
L.O.E.O.P. :	DENOTES 0.0' LEFT OF EDGE OF PAVEMENT
R.O.S/W :	DENOTES 0.0' RIGHT OF SIDEWALK

RECORD DRAWING

THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED TO A.B. SURVEY SUPPLIES ENTERPRISES, INC. AND CONSIDERED TO BE SIGNIFICANT. THE CHANGES SHOWN HEREON, REFLECT THE NEW FIELD LOCATION AND INFORMATION OF THOSE ITEMS INSTALLED/ALTERED, AS OF THIS DATE.

JOHN J. RICE, P.L.S. DATE:
Fla. Certification No. 4506

SEE THIS SHEET TOP PANEL



NOTES:

1. ALL CONSTRUCTION SHOWN ON THESE PLANS MUST COMPLY WITH THE MARTIN COUNTY UTILITIES DEPARTMENT MINIMUM DESIGN AND CONSTRUCTION STANDARDS. IN THE EVENT OF CONFLICTING REQUIRMENTS, THE CONTRACTOR SHALL BE RESPONSIBILE FOR COMPLYING WITH THE MORE RESTRICTIVE REQUIREMENT AT NO ADDITIONAL COST TO MARTIN COUNTY UTILITIES.
2. LOCATIONS OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE APPROXIMATE. CONTRACTOR MUST LOCATE ALL EXISTING UTILITIES PRIOR TO INSTALLING RECLAIMED WATER MAIN TO ENSURE ADEQUATE SEPARATION IS MAINTAINED BETWEEN EXISTING UTILITIES AND PROPOSED RECLAIMED WATER MAIN.
3. ALL DISTURBED AREAS ARE TO BE COMPLETELY RESTORED, INCLUDING SEED AND MULCH AS REQUIRED BY THE SPECIFICATIONS.
4. CONTRACTOR TO ENSURE SUPPORT OF EXISTING POWER POLES, TELEPHONE BOXES, AND TELEPHONE CABLE DURING CONSTRUCTION OF RECLAIMED WATER MAIN.
5. FOR RECLAIMED WATER MAIN INSTALLATION ON COVE ROAD, CONTRACTOR TO PROVIDE 48" OF COVER.

LEGEND:

*	DENOTES RECORD INFORMATION
L.O.N.E.L :	DENOTES 0.0' LEFT OF NORTH EASEMENT LINE
R.O.F. :	DENOTES 0.0' RIGHT OF FENCE
L.O.F. :	DENOTES 0.0' LEFT OF FENCE
R.O.R/W :	DENOTES 0.0' RIGHT OF R/W
L.O.R/W :	DENOTES 0.0' LEFT OF R/W
R.O.E.O.P. :	DENOTES 0.0' RIGHT OF EDGE OF PAVEMENT
L.O.E.O.P. :	DENOTES 0.0' LEFT OF EDGE OF PAVEMENT
R.O.S/W :	DENOTES 0.0' RIGHT OF SIDEWALK

RECORD DRAWING

THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED TO A.B. SURVEY SUPPLIES ENTERPRISES, INC. AND CONSIDERED TO BE SIGNIFICANT. THE CHANGES SHOWN HEREON, REFLECT THE NEW FIELD LOCATION AND INFORMATION OF THOSE ITEMS INSTALLED/ALTERED, AS OF THIS DATE.

JOHN J. RICE, P.L.S. DATE:
Fla. Certification No. 4506

CALL 48 HOURS BEFORE YOU DIG IN FLORIDA
1-800-432-4770
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SUNSHINE STATE ONE CALL OF FLORIDA, INC.

Scale : 1" = 50'
Date : 2-20-96
Designed : SLT
Drawn : SLT
Checked : SAE
Project No.: 94-104
CAD File : 94104A06.DWG

Date	Revision
5-30-96	ADDED RCP CONFLICT
5-30-96	ADDED NOTE-300LF RCP
10/96	TO RECORD INFO.

DIXIE PARK
RECLAIMED WATER MAIN EXTENSION
Martin County Florida

LINDAHL, BROWNING, FERRARI, & HELLSTROM, INC.
CONSULTING ENGINEERS, PLANNERS & SURVEYORS
2400 S.E. MONTEREY ROAD, SUITE 300
STUART, FL 34996
(407) 286-3868

MARTIN COUNTY UTILITIES DEPARTMENT

lbfh

Project # 94-104
Sheet 6 of 8

SIO-DIXIEPARK-96-006

Scale : 1" = 50'
Date : 3/26/96
Designed : SLT
Drawn : SLT
Checked : SAE
Project No.: 94-104
CAD File : 94104A07.DWG

Date	Revision
5-30-96	MONTEGO COVE RWM MOVED TO 15' OFF EXISTING WALL
5-30-96	SUMMER. RWM MOVED 5' OFF EXISTING EOP
10/96	TO RECORD INFO.

DIXIE PARK
RECLAIMED WATER MAIN EXTENSION
Martin County Florida

LINDAHL, BROWNING, FERRARI, & HELLSTROM, INC.
CONSULTING ENGINEERS, PLANNERS & SURVEYORS
2400 S.E. MONTEREY ROAD, SUITE 300
STUART, FL 34996
(407) 286-3868

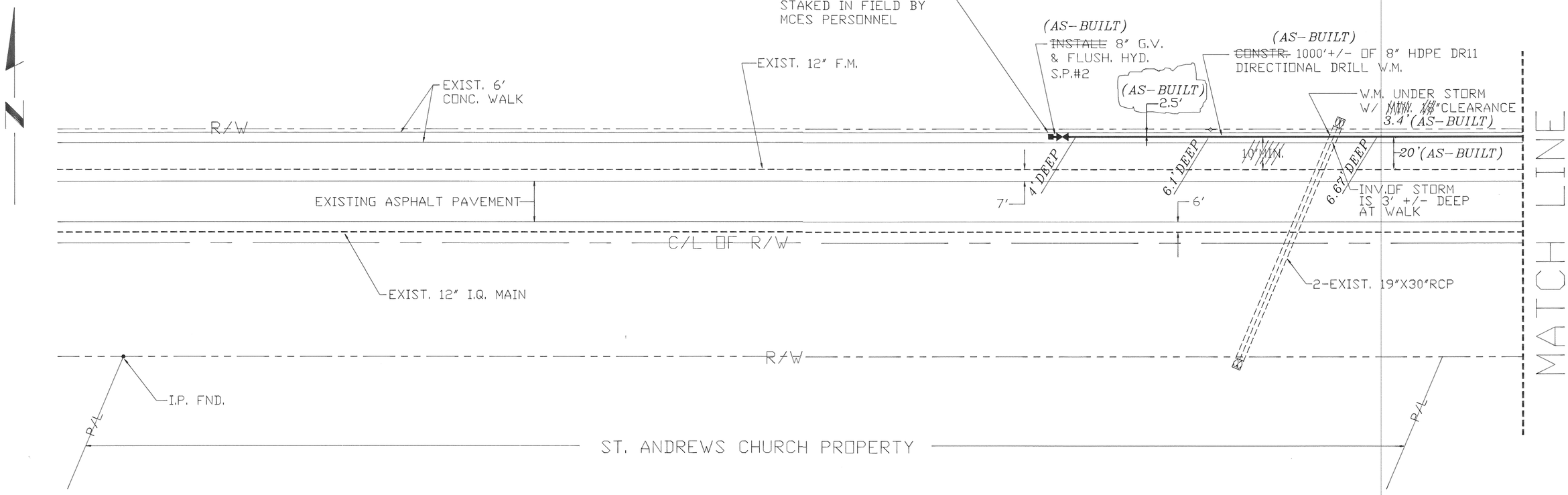
MARTIN COUNTY UTILITIES DEPARTMENT

lbfh

Project # 94-104
Sheet 7 of 8

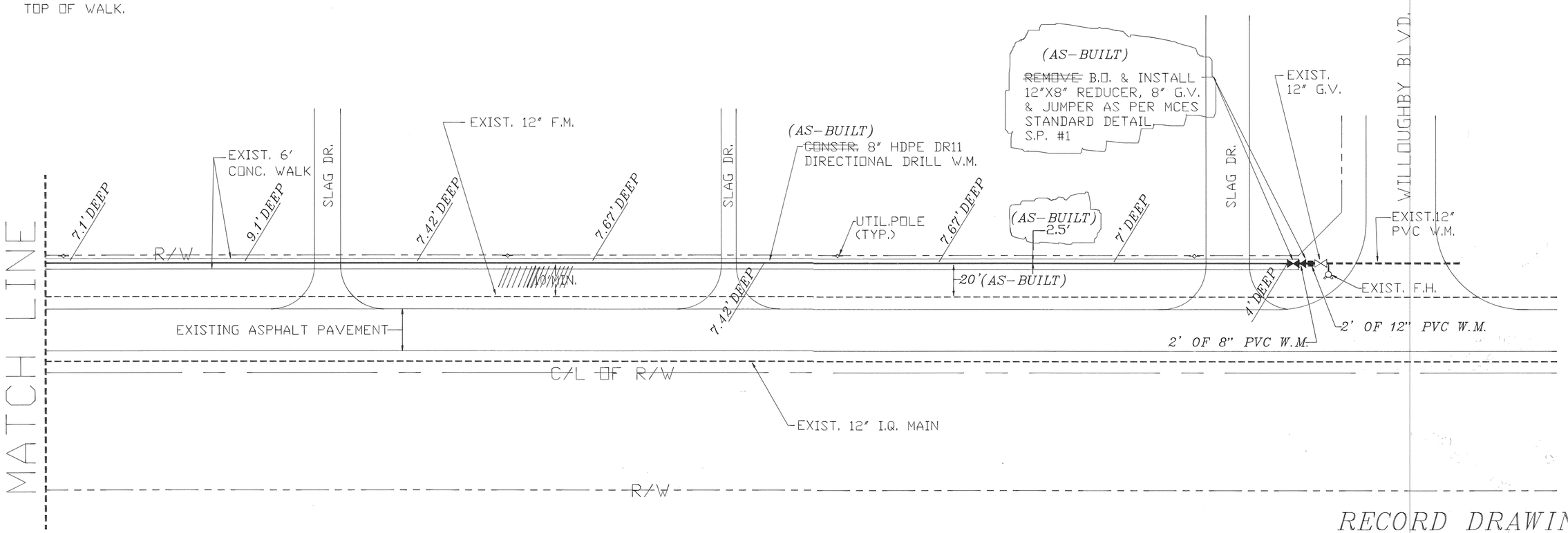
SIO-DIXIEPARK-96-007

NOTE: *RECORD INFORMATION DENOTED IN ITALIC*



SCALE: 1"=30'

NOTE: INSTALL W.M. AT A MIN. DEPTH OF 36" AND 48" MAX. BELOW TOP OF WALK.



RECORD DRAWING

SW-COVE-RD-WATER-01-02

COVE ROAD WATER MAIN TO ST. ANDREWS CHURCH

MARTIN COUNTY UTILITIES

DATE	BY	REVISIONS
11/26/01	TEA	ADD RECORD INFORMATION

SCALE: 1"=30'
JUNE, 2001

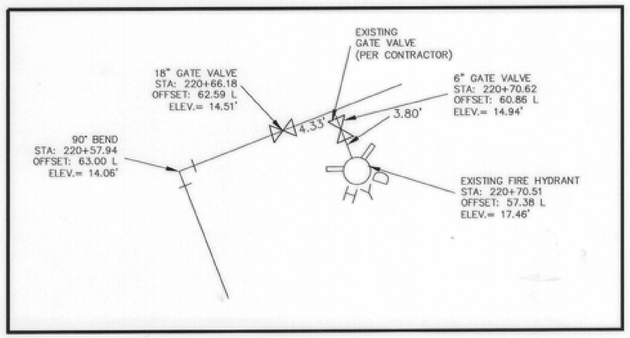
CHECKED BY: TED E. ROBBINS, P.E.

DRAWN: RUSS IRWIN
DESIGN: RUSS IRWIN

SHEET 2 OF 3

DRAWING NUMBER: 01-33-01

AS-BUILT SURVEY
FOR
MARTIN COUNTY UTILITIES
18" WATERMAIN AT COVE ROAD
(PHASE 1A)



DETAIL "C"
SCALE 1"= 5'

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

SURVEYORS NOTES

1. CENTERLINE OF SURVEY ESTABLISHED FROM DIGITAL FILE OF CPH CONSTRUCTION DRAWINGS AS ADJUSTED TO VISIBLE FEATURES IN MARTIN COUNTY DIGITAL ORTHOPHOTOS. THIS CENTERLINE NOT FIELD VERIFIED. THE ACTUAL STATE PLANE COORDINATES AS MEASURED PER THIS AS-BUILT SHOULD BE UTILIZED FOR LOCATION PURPOSES.

2. THE PURPOSE OF THIS SURVEY IS TO PROVIDE AS BUILT INFORMATION FOR THE NEWLY CONSTRUCTED WATER MAIN AS SHOWN.

3. ELEVATIONS SHOWN HEREON ARE IN FEET AND ARE BASED ON THE MARTIN COUNTY BENCHMARK "HOTSPRIT-1" HAVING AN ELEVATION OF 7.85 FEET (NGVD '29 DATUM)

4. ALL OTHER INFORMATION SHOWN HEREON IS SUPPLIED BY THE ENGINEER OF RECORD.

* NOTE: AS BUILT INFORMATION IS SHOWN AS FOLLOWS:
BORE LOG DEPTH SHOWN AS THUS (5'6")
R\W RIGHT OF WAY

KEY SHEET
NOT TO SCALE

NORTHSTAR GEOMATICS
900 EAST OCEAN BOULEVARD, SUITE 140, STUART, FL 34994
PO BOX 2371 STUART, FLORIDA 34995
(772) 781-6400 (772) 781-6462 FAX

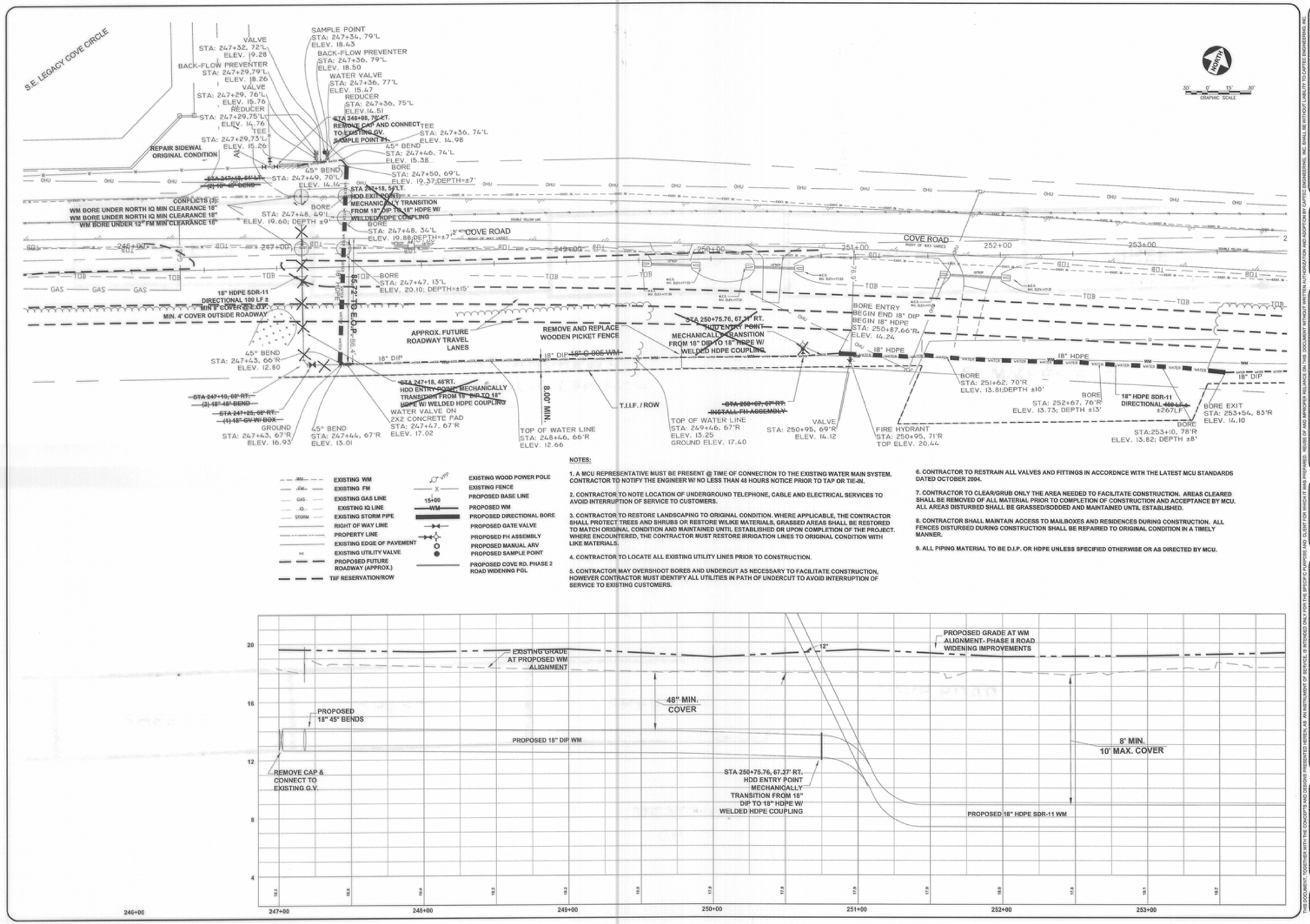
DATE	REVISIONS
10/12/05	ADDED PROPOSED WATER MAIN
10/17/05	UPDATED EXISTING WATER MAIN

DATE 09/27/05
SCALE 1"=20'
FIELD BK. 10 PG 21,29 & 35
DWNG. BY BMT
CHECKED BY GSF

AS-BUILT SURVEY
FOR
MARTIN COUNTY UTILITIES
COVE ROAD WATER MAIN
MARTIN COUNTY, FLORIDA

SHEET NO. 8
OF 8 SHEETS
PROJECT NO.
05-109

SW-COVE-RD-WM-PHASE-1A-05-008



EXISTING WM
EXISTING FM
EXISTING GAS LINE
EXISTING IQ LINE
EXISTING STORM PIPE
RIGHT OF WAY LINE
PROPERTY LINE
EXISTING EDGE OF PAVEMENT
EXISTING UTILITY VALVE
PROPOSED FUTURE ROADWAY (APPROX.)
TIF RESERVATION/ROW

EXISTING WOOD POWER POLE
EXISTING FENCE
PROPOSED BASE LINE
PROPOSED WM
PROPOSED DIRECTIONAL BORE
PROPOSED GATE VALVE
PROPOSED FH ASSEMBLY
PROPOSED MANUAL ARV
PROPOSED SAMPLE POINT
PROPOSED COVE RD. PHASE 2 ROAD WIDENING PGL

NOTES:

1. A MCU REPRESENTATIVE MUST BE PRESENT @ TIME OF CONNECTION TO THE EXISTING WATER MAIN SYSTEM. CONTRACTOR TO NOTIFY THE ENGINEER W/ NO LESS THAN 48 HOURS NOTICE PRIOR TO TAP OR TIE-IN.
2. CONTRACTOR TO NOTE LOCATION OF UNDERGROUND TELEPHONE, CABLE AND ELECTRICAL SERVICES TO AVOID INTERRUPTION OF SERVICE TO CUSTOMERS.
3. CONTRACTOR TO RESTORE LANDSCAPING TO ORIGINAL CONDITION. WHERE APPLICABLE, THE CONTRACTOR SHALL PROTECT TREES AND SHRUBS OR RESTORE W/LIKE MATERIALS, GRASSED AREAS SHALL BE RESTORED TO MATCH ORIGINAL CONDITION AND MAINTAINED UNTIL ESTABLISHED OR UPON COMPLETION OF THE PROJECT. WHERE ENCOUNTERED, THE CONTRACTOR MUST RESTORE IRRIGATION LINES TO ORIGINAL CONDITION WITH LIKE MATERIALS.
4. CONTRACTOR TO LOCATE ALL EXISTING UTILITY LINES PRIOR TO CONSTRUCTION.
5. CONTRACTOR MAY OVERSHOOT BORES AND UNDERCUT AS NECESSARY TO FACILITATE CONSTRUCTION, HOWEVER CONTRACTOR MUST IDENTIFY ALL UTILITIES IN PATH OF UNDERCUT TO AVOID INTERRUPTION OF SERVICE TO EXISTING CUSTOMERS.
6. CONTRACTOR TO RESTRAIN ALL VALVES AND FITTINGS IN ACCORDNCE WITH THE LATEST MCU STANDARDS DATED OCTOBER 2004.
7. CONTRACTOR TO CLEAR/GRUB ONLY THE AREA NEEDED TO FACILITATE CONSTRUCTION. AREAS CLEARED SHALL BE REMOVED OF ALL MATERIAL PRIOR TO COMPLETION OF CONSTRUCTION AND ACCEPTANCE BY MCU. ALL AREAS DISTURBED SHALL BE GRASSED/SODDED AND MAINTAINED UNTIL ESTABLISHED.
8. CONTRACTOR SHALL MAINTAIN ACCESS TO MAILBOXES AND RESIDENCES DURING CONSTRUCTION. ALL FENCES DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED TO ORIGINAL CONDITION IN A TIMELY MANNER.
9. ALL PIPING MATERIAL TO BE D.I.P. OR HDPE UNLESS SPECIFIED OTHERWISE OR AS DIRECTED BY MCU.

SW-COVE-RD-WM-PHASE-2-05-003

300 SW St. Lucie Ave
Stuart, Florida 34994
Phone: (772) 692-4344
Fax: (772) 692-4344
E-mail: Capitec1@aol.com
Engineering Business No. EB-0001697
CAPITEC Engineering, Inc.
Civil Engineering Professionals

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DATE: 04/26/06
DRAWN BY: DR
DESIGNED BY: SRT
CHECKED BY: JWC
PROJECT No.: 711-8
HORZ. SCALE: AS SHOWN
VERT. SCALE: AS SHOWN
CADD FILE: 711-8.Dwg

NO.	DATE	BY	REVISIONS
1	05/05/06	SRT	AFC SET

SCALE VERIFICATION
0 1
SOLID BAR IS EQUAL TO ONE INCH ON ORIGINAL DRAWING. ADJUST ALL SCALED DIMENSIONS ACCORDINGLY

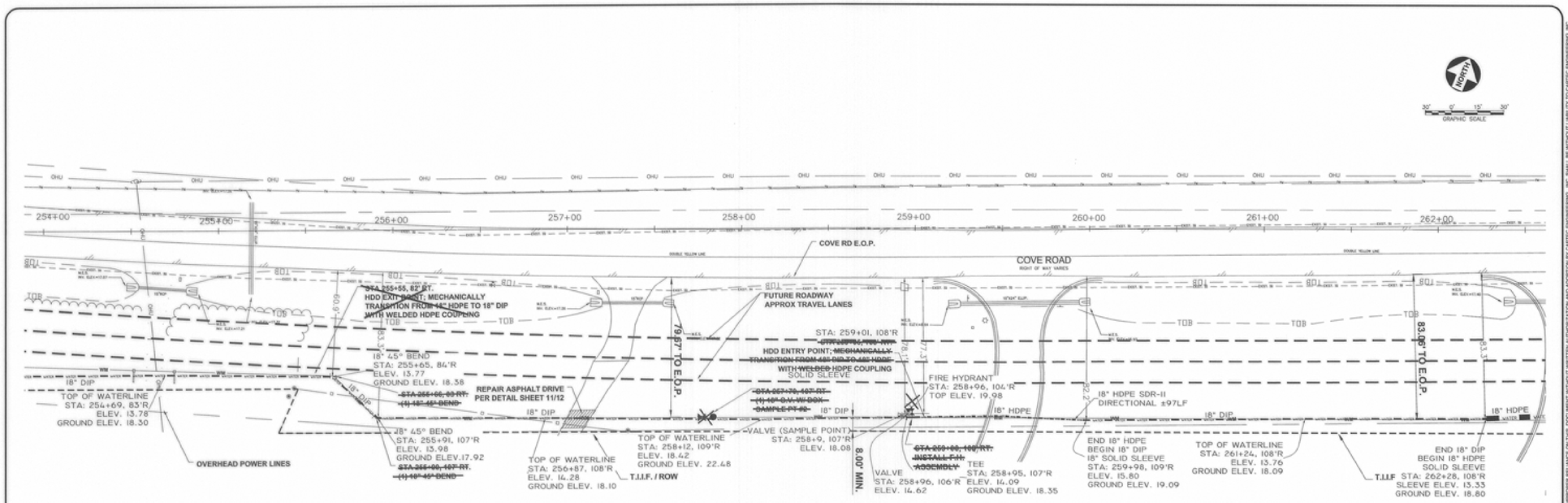
MARTIN COUNTY UTILITIES
WATER MAIN EXTENSION
MARTIN COUNTY, FLORIDA

COVE ROAD - PHASE II
PLAN & PROFILE
STA 247+00 TO 253+91

Joseph W. Capra
300 S.W. St. Lucie Ave.
Stuart, Florida 34994
P.E. No. 37638

Printed Date:

JOB No.: 711-8
SHEET 3 OF 12

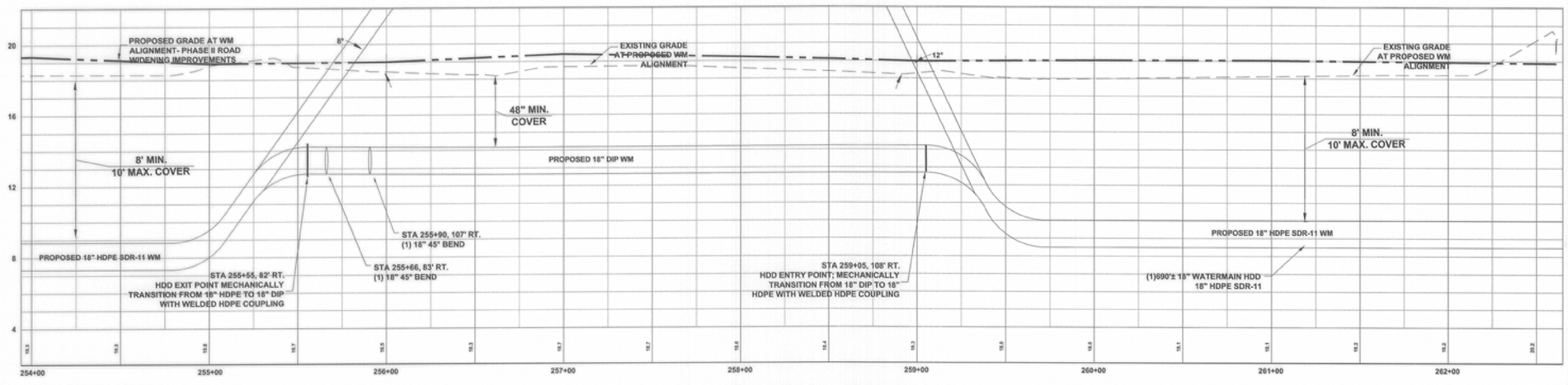


EXISTING WM
EXISTING FM
EXISTING GAS LINE
EXISTING IQ LINE
EXISTING STORM PIPE
RIGHT OF WAY LINE
PROPERTY LINE
EXISTING EDGE OF PAVEMENT
EXISTING UTILITY VALVE
PROPOSED FUTURE ROADWAY (APPROX.)
TIF RESERVATION/ROW

EXISTING WOOD POWER POLE
EXISTING FENCE
PROPOSED BASE LINE
PROPOSED WM
PROPOSED DIRECTIONAL BORE
PROPOSED GATE VALVE
PROPOSED FH ASSEMBLY
PROPOSED MANUAL ARV
PROPOSED SAMPLE POINT
PROPOSED COVE RD. PHASE 2 ROAD WIDENING PGL

NOTES:

1. A MCU REPRESENTATIVE MUST BE PRESENT @ TIME OF CONNECTION TO THE EXISTING WATER MAIN SYSTEM. CONTRACTOR TO NOTIFY THE ENGINEER W/ NO LESS THAN 48 HOURS NOTICE PRIOR TO TAP OR TIE-IN.
2. CONTRACTOR TO NOTE LOCATION OF UNDERGROUND TELEPHONE, CABLE AND ELECTRICAL SERVICES TO AVOID INTERRUPTION OF SERVICE TO CUSTOMERS.
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4. CONTRACTOR TO LOCATE ALL EXISTING UTILITY LINES PRIOR TO CONSTRUCTION.
5. CONTRACTOR MAY OVERSHOOT BORES AND UNDERCUT AS NECESSARY TO FACILITATE CONSTRUCTION, HOWEVER CONTRACTOR MUST IDENTIFY ALL UTILITIES IN PATH OF UNDERCUT TO AVOID INTERRUPTION OF SERVICE TO EXISTING CUSTOMERS.
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9. ALL PIPING MATERIAL TO BE D.I.P. OR HDPE UNLESS SPECIFIED OTHERWISE OR AS DIRECTED BY MCU.



SW--COVE--RD--WM--PHASE--2--05--004

CAPTEC Engineering, Inc.
300 SW St. Lucie Ave
Stuart, Florida 34994
Phone: (772) 692-4344
Fax: (772) 692-4341
E-mail: Captec1@bbt.com
Civil Engineering Professionals
Engineering Business No. EB-0007697

DATE: 4/10/06
DRAWN BY: ADC
DESIGNED BY:
CHECKED BY:
PROJECT No.: 711-8
HORZ. SCALE: AS SHOWN
VERT. SCALE: AS SHOWN
CADD FILE: 711-8.dwg

NO.	DATE	BY	REVISIONS
1	6/08/06	SBT	AFC SET

SCALE VERIFICATION
0 1"
SOLID BAR IS EQUAL TO ONE INCH ON ORIGINAL DRAWING. ADJUST ALL SCALED DIMENSIONS ACCORDINGLY

MARTIN COUNTY UTILITIES
WATER MAIN EXTENSION
MARTIN COUNTY, FLORIDA

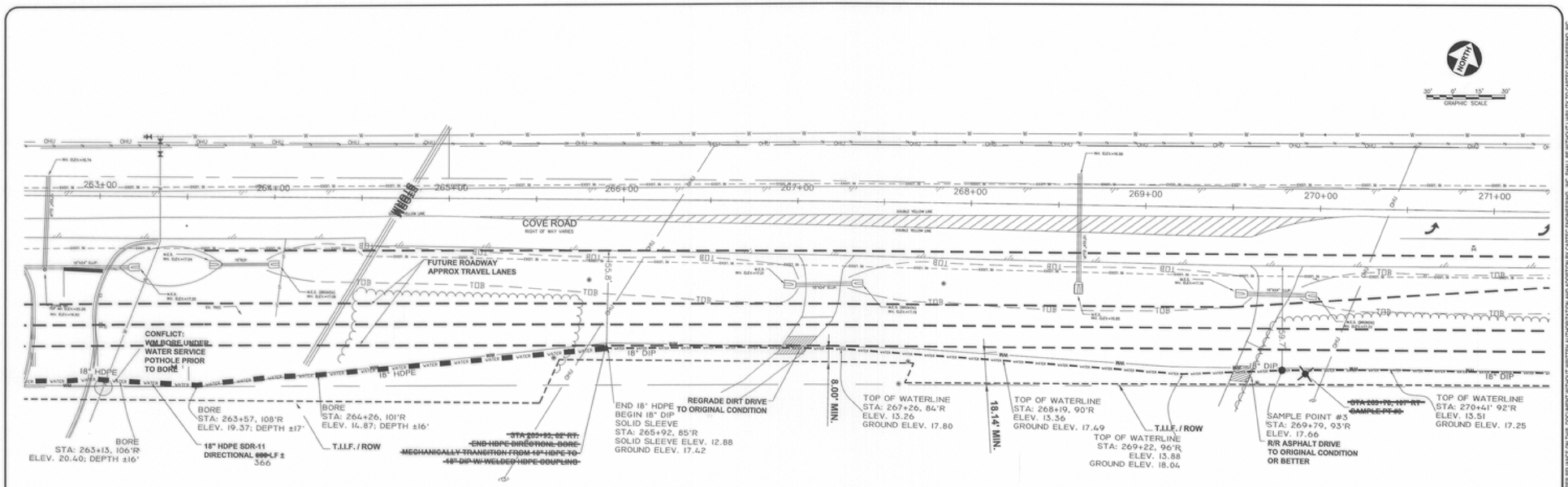
COVE ROAD - PHASE II
PLAN & PROFILE
STA 254+00 TO 262+65

Joseph W. Capra
300 S.W. St. Lucie Ave.
Stuart, Florida 34994
P.E. No. 37638

Printed Date:

JOB No.: 711-8
SHEET 4 OF 12

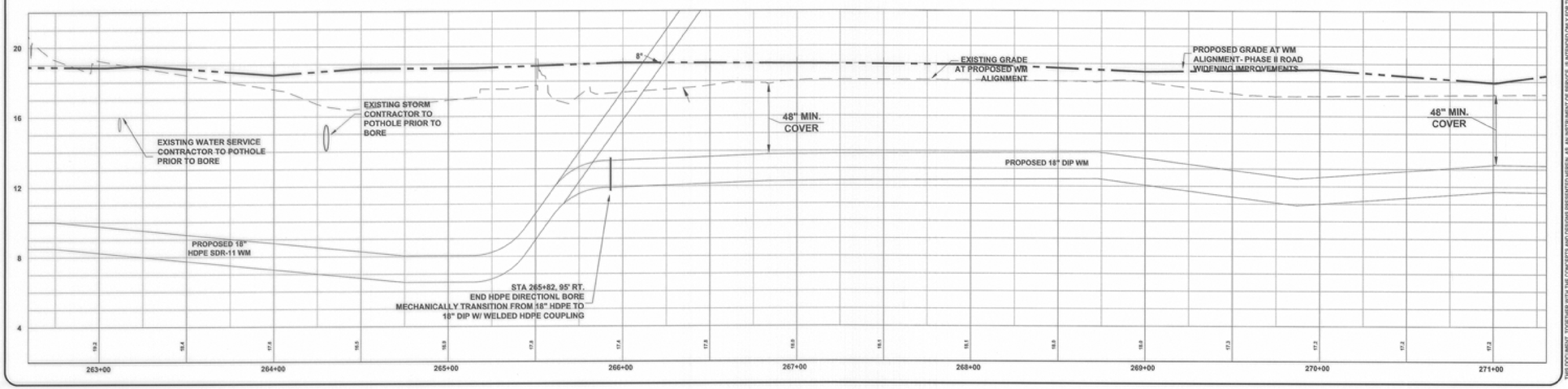
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- EXISTING WM
- EXISTING FM
- EXISTING GAS LINE
- EXISTING IQ LINE
- EXISTING STORM PIPE
- RIGHT OF WAY LINE
- PROPERTY LINE
- EXISTING EDGE OF PAVEMENT
- EXISTING UTILITY VALVE
- PROPOSED FUTURE ROADWAY (APPROX.)
- TIIF RESERVATION/ROW
- EXISTING WOOD POWER POLE
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- PROPOSED GATE VALVE
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- PROPOSED MANUAL ARV
- PROPOSED SAMPLE POINT
- PROPOSED COVE RD. PHASE 2 ROAD WIDENING PGL

NOTES:

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SW-COVE-RD-WM-PHASE-2-05-005

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CAPTEC Engineering, Inc.
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Engineering Business No. EB-0007657

DATE: 4/13/09
DRAWN BY: DR
DESIGNED BY: SR
CHECKED BY: JW
PROJECT No.: 711-8
HORZ. SCALE: AS SHOWN
VERT. SCALE: AS SHOWN
CADD FILE: 711-8.Dwg

NO.	DATE	BY	REVISIONS
1	05/05/09	SRT	AFC PLANS

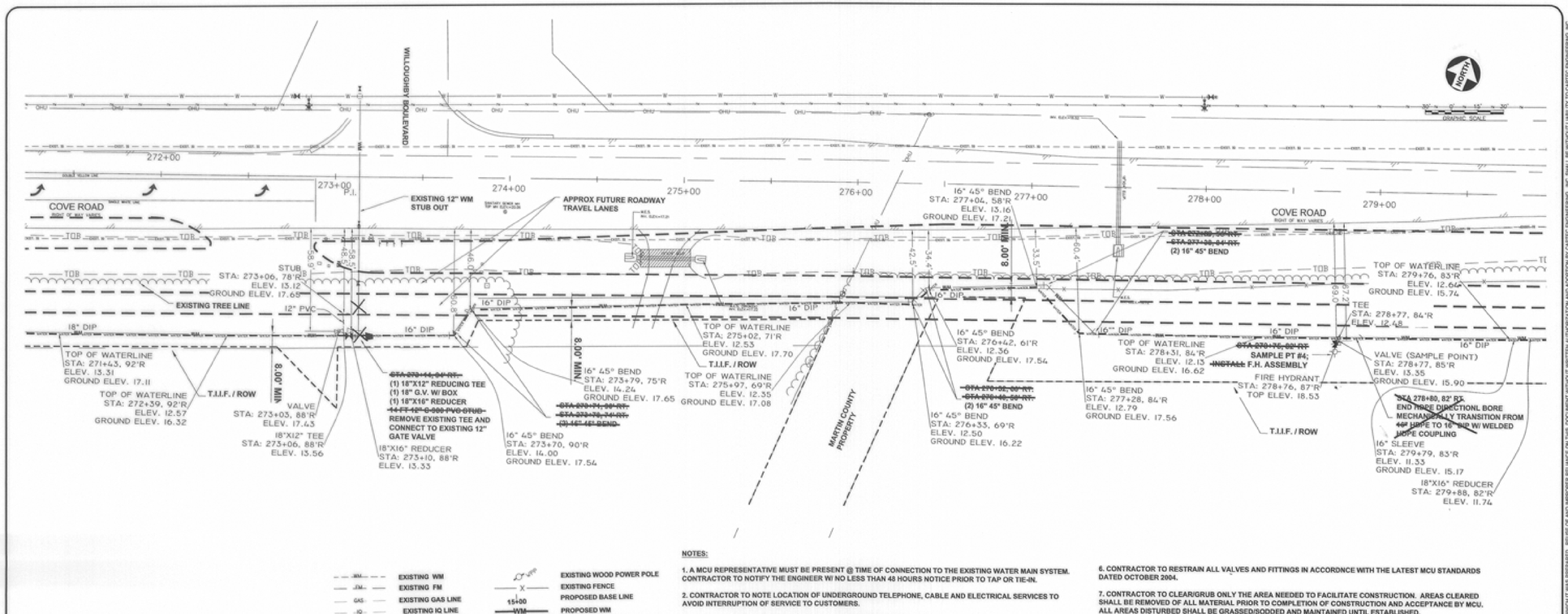
SCALE VERIFICATION
0 — 1
BOLD BAR IS EQUAL TO ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE AS REQUIRED FOR OTHER DIMENSIONS ACCORDINGLY

MARTIN COUNTY UTILITIES
WATER MAIN EXTENSION
MARTIN COUNTY, FLORIDA
COVE ROAD - PHASE II
PLAN & PROFILE
STA 262+65 TO 271+30

Joseph W. Capra
300 S.W. St. Lucie Ave.
Stuart, Florida 34994
P.E. No. 37638

Printed Date:

JOB No.: 711-8
SHEET 5 OF 12

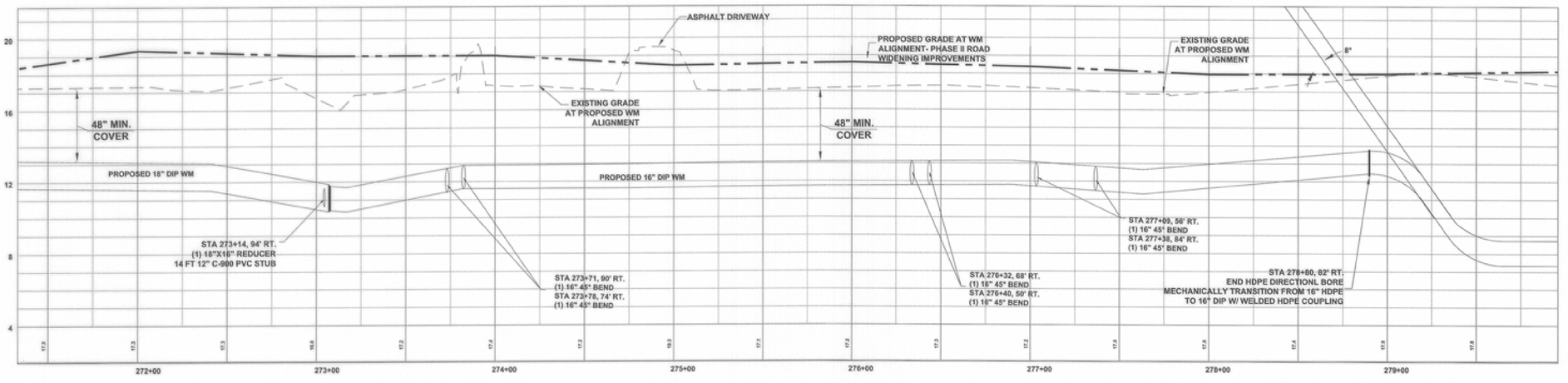


EXISTING WM
EXISTING FM
EXISTING GAS LINE
EXISTING IQ LINE
EXISTING STORM PIPE
RIGHT OF WAY LINE
PROPERTY LINE
EXISTING EDGE OF PAVEMENT
EXISTING UTILITY VALVE
PROPOSED FUTURE ROADWAY (APPROX.)
TIF RESERVATION/ROW

EXISTING WOOD POWER POLE
EXISTING FENCE
PROPOSED BASE LINE
PROPOSED WM
PROPOSED DIRECTIONAL BORE
PROPOSED GATE VALVE
PROPOSED FH ASSEMBLY
PROPOSED MANUAL ARV
PROPOSED SAMPLE POINT
PROPOSED COVE RD. PHASE 2 ROAD WIDENING PGL

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SW-COVE-RD-WM-PHASE-2-05-006

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Engineering Business No. EB-0007057
CAPITEC Engineering, Inc.
Civil Engineering Professionals

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 CAPTEC ENGINEERING, INC. SHALL BE WITHOUT LIABILITY TO CAPTEC ENGINEERING, INC

DATE: 4/15/08
DRAWN BY: ADC
DESIGNED BY:
CHECKED BY:
PROJECT No.: 711-8
HORZ. SCALE: AS SHOWN
VERT. SCALE: AS SHOWN
CADD FILE: 711-8.Dwg

NO.	DATE	BY	REVISIONS
1	5/05/06	SRT	AFC PLANS

SCALE VERIFICATION
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SOLID BAR IS EQUAL TO ONE INCH ON ORIGINAL DRAWING. ADJUST ALL SCALED DIMENSIONS ACCORDINGLY

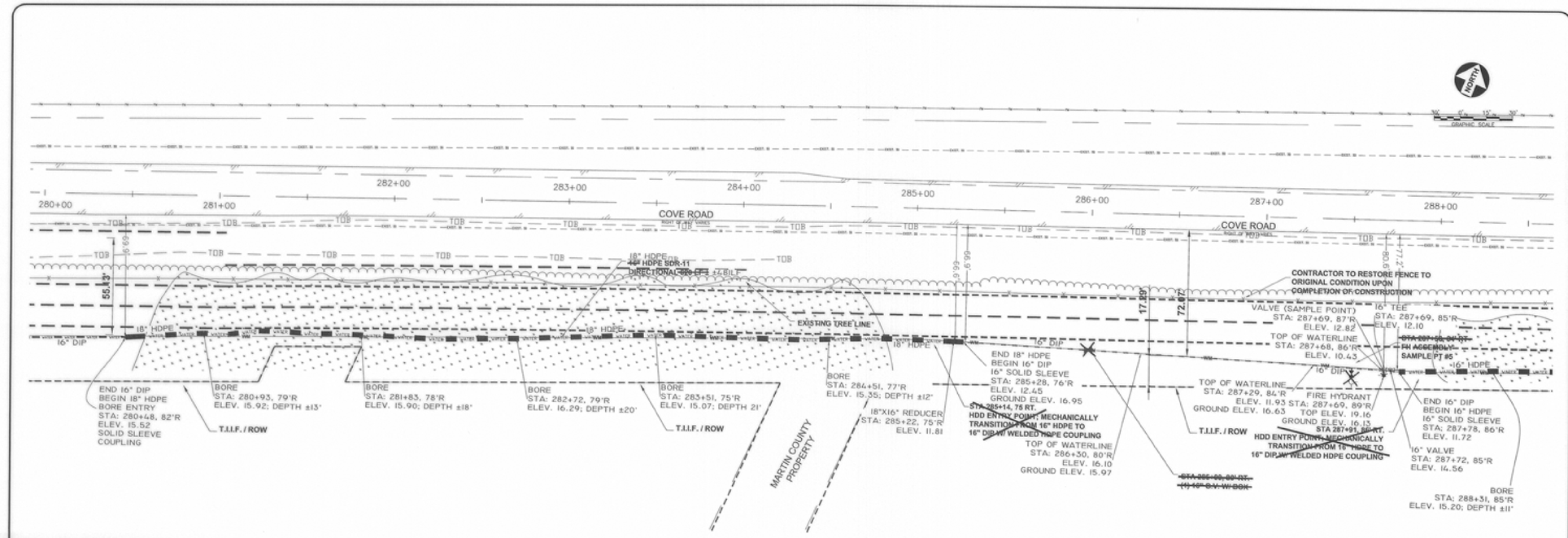
MARTIN COUNTY UTILITIES
WATER MAIN EXTENSION
MARTIN COUNTY, FLORIDA

COVE ROAD - PHASE II
PLAN & PROFILE
STA 271+30 TO 279+96

Joseph W. Capra
300 S.W. St. Lucie Ave.
Stuart, Florida 34994
P.E. No. 37638

Printed Date:

JOB No.: 711-8
SHEET 6 OF 12



EXISTING WM
EXISTING FM
EXISTING GAS LINE
EXISTING IQ LINE
EXISTING STORM PIPE
RIGHT OF WAY LINE
PROPERTY LINE
EXISTING EDGE OF PAVEMENT
EXISTING UTILITY VALVE
PROPOSED FUTURE ROADWAY (APPROX.)
TBF RESERVATION/ROW

EXISTING WOOD POWER POLE
EXISTING FENCE
PROPOSED BASE LINE
PROPOSED WM
PROPOSED DIRECTIONAL BORE
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PROPOSED SAMPLE POINT
PROPOSED COVE RD. PHASE 2 ROAD WIDENING PGL

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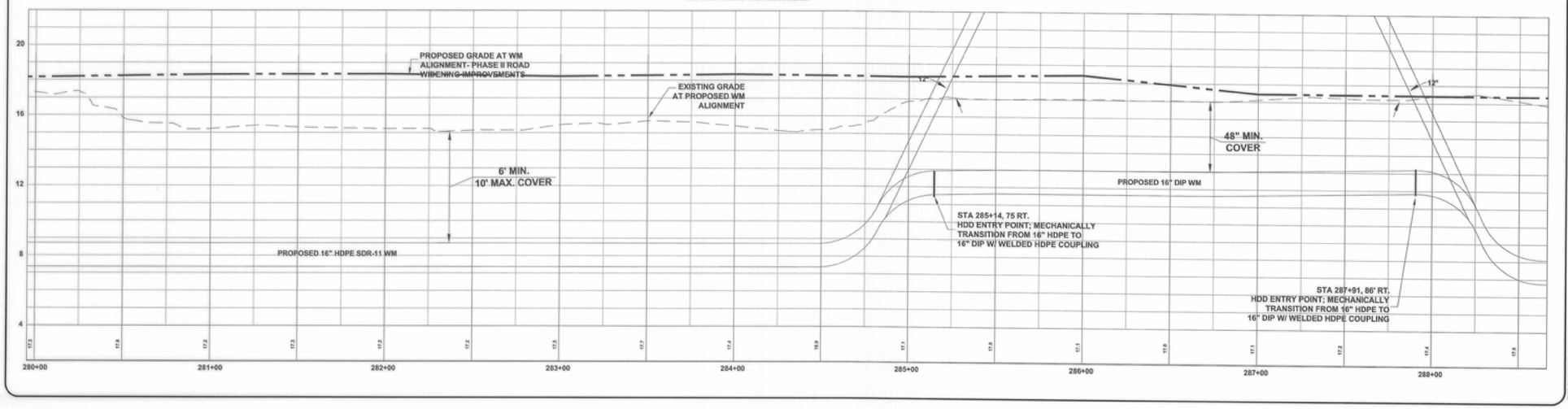
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SW-COVE-RD-WM-PHASE-2-05-007

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Fax: (772) 692-4345
E-mail: Captec1@aol.com
Engineering Business • No. EB-0007697

DRAWN BY: ADC
DESIGNED BY:
CHECKED BY:
PROJECT No.: 711-8
HORIZ. SCALE: AS SHOWN
VERT. SCALE: AS SHOWN
CADD FILE: 711-8.Dwg
DATE: 4/18/06

NO.	DATE	BY	REVISIONS

SCALE VERIFICATION
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SOLID BAR IS EQUAL TO 1" ON THE ORIGINAL DRAWING, ADJUST ALL SCALED DIMENSIONS ACCORDINGLY

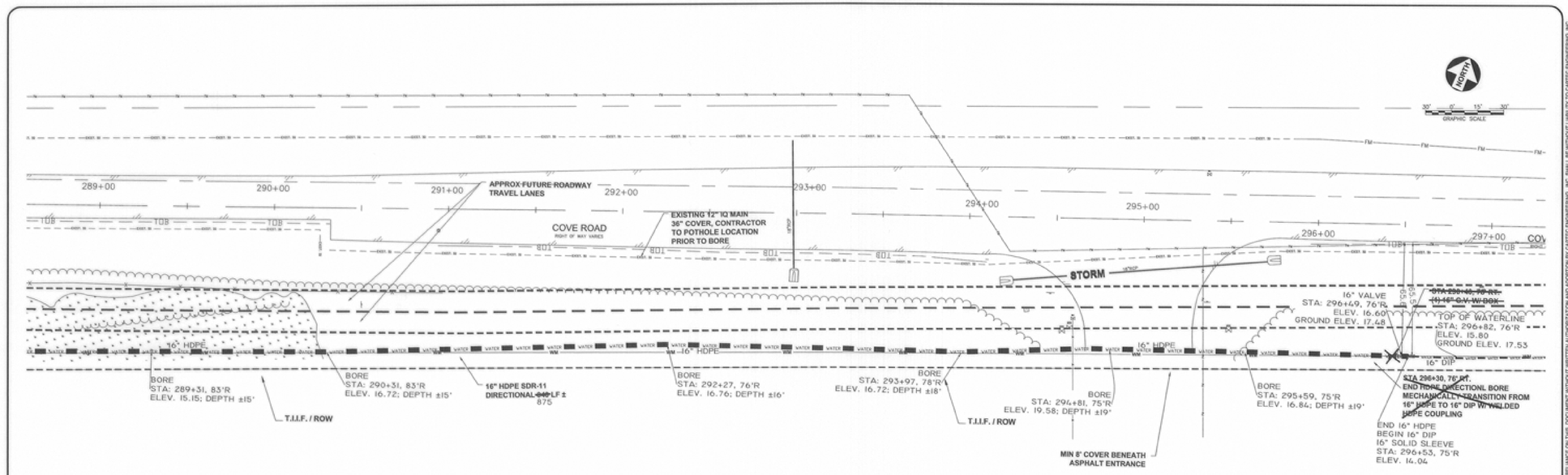
MARTIN COUNTY UTILITIES
WATER MAIN EXTENSION
MARTIN COUNTY, FLORIDA
COVE ROAD - PHASE II
PLAN & PROFILE
STA 279+95 TO 288+61

Joseph W. Capra
300 S.W. St. Lucie Ave.
Stuart, Florida 34994
P.E. No. 37638

Printed Date:

JOB No.: 711-8
SHEET 7 OF 12

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 CAPTEC ENGINEERING, INC. SHALL BE WITHOUT LIABILITY TO CAPTEC ENGINEERING, INC.

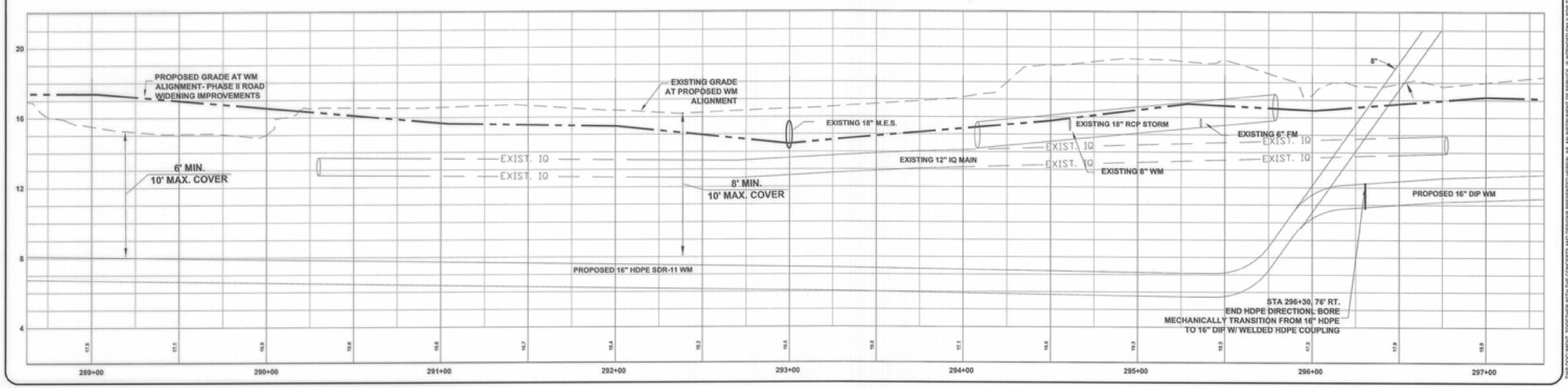


EXISTING WM
EXISTING FM
EXISTING GAS LINE
EXISTING IQ LINE
EXISTING STORM PIPE
RIGHT OF WAY LINE
PROPERTY LINE
EXISTING EDGE OF PAVEMENT
EXISTING UTILITY VALVE
PROPOSED FUTURE ROADWAY (APPROX.)
TIF RESERVATION/ROW

EXISTING WOOD POWER POLE
EXISTING FENCE
PROPOSED BASE LINE
PROPOSED WM
PROPOSED DIRECTIONAL BORE
PROPOSED GATE VALVE
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SW-COVE-RD-WM-PHASE-2-05-008

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Phone: (772) 692-4344
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Email: CapTec1@aol.com

CAPTEC Engineering, Inc.
Civil Engineering Professionals

Engineering Business No. EB-0007957

DATE: 4/10/06
DRAWN BY: ADC
DESIGNED BY:
CHECKED BY:
PROJECT No.: 711-8
HORZ. SCALE: AS SHOWN
VERT. SCALE: AS SHOWN
CADD FILE: 711-8.Dwg

NO.	DATE	BY	REVISIONS
1	05/05/06	SRT	AFC PLANS

SCALE VERIFICATION
0 1
SOLID BAR IS EQUAL TO ONE INCH ON ORIGINAL DRAWING. ADJUST ALL SCALED DIMENSIONS ACCORDINGLY

MARTIN COUNTY UTILITIES
WATER MAIN EXTENSION
MARTIN COUNTY, FLORIDA

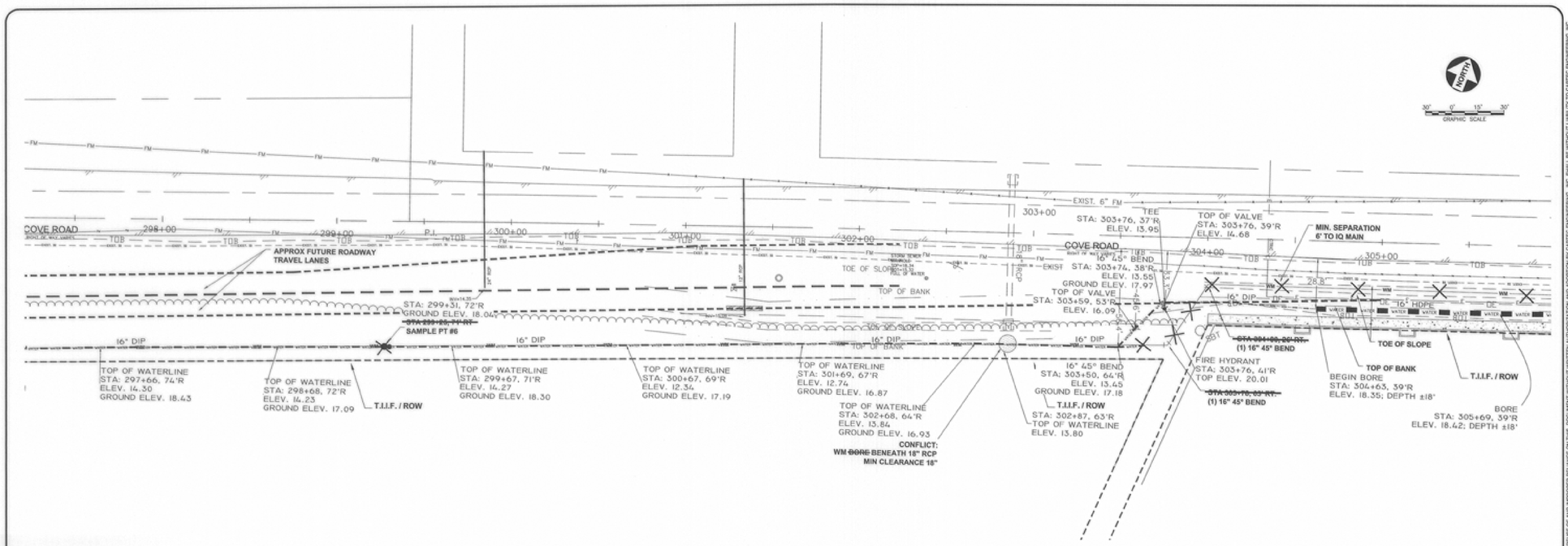
COVE ROAD - PHASE II
PLAN & PROFILE
STA 288+60 TO 297+37

Joseph W. Capra
300 S.W. St. Lucie Ave.
Stuart, Florida 34994
P.E. No. 37638

Printed Date:

JOB No.: 711-8
SHEET 8 OF 12

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EXISTING FM
EXISTING GAS LINE
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EXISTING STORM PIPE
RIGHT OF WAY LINE
PROPERTY LINE
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EXISTING UTILITY VALVE
PROPOSED FUTURE ROADWAY (APPROX.)
TIIF RESERVATION/ROW

EXISTING WOOD POWER POLE
EXISTING FENCE
PROPOSED BASE LINE
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PROPOSED DIRECTIONAL BORE
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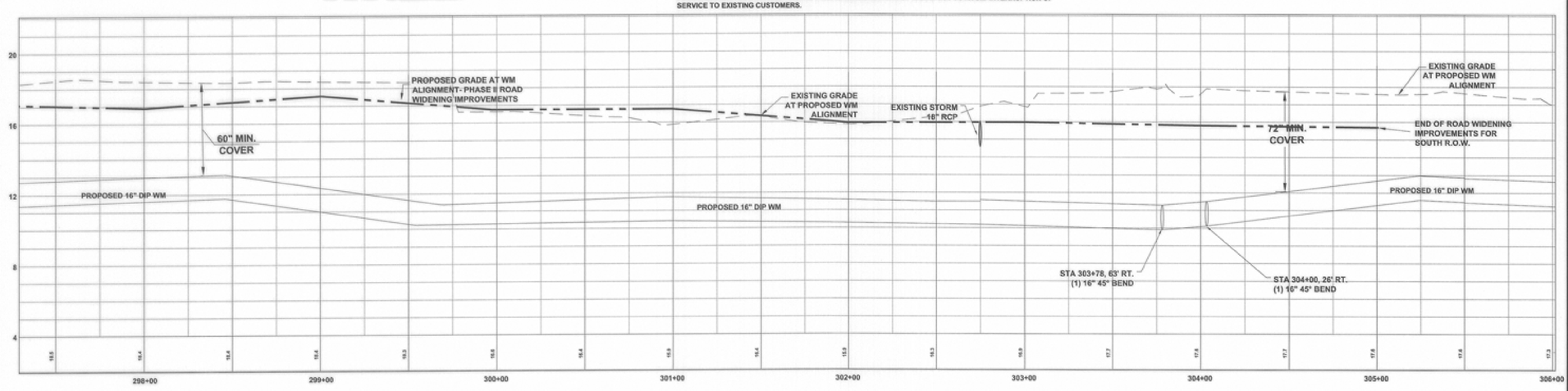
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SW-COVE-RD-WM-PHASE-2-05-009

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Phone: (772) 692-4944
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E-mail: Captec1@aol.com
Engineering Business No. EB-0001957

DATE: 6/10/06
DRAWN BY: ADC
DESIGNED BY:
CHECKED BY:
PROJECT No.: 711-8
HORZ. SCALE: AS SHOWN
VERT. SCALE: AS SHOWN
CADD FILE: 711-8.Dwg

NO.	DATE	BY	REVISIONS
1	6/08/06	BKF	AFC PLANS

SCALE VERIFICATION
0 1
SOLID BAR IS EQUAL TO ONE INCH ON ORIGINAL DRAWING, ADJUST ALL SCALED DIMENSIONS ACCORDINGLY

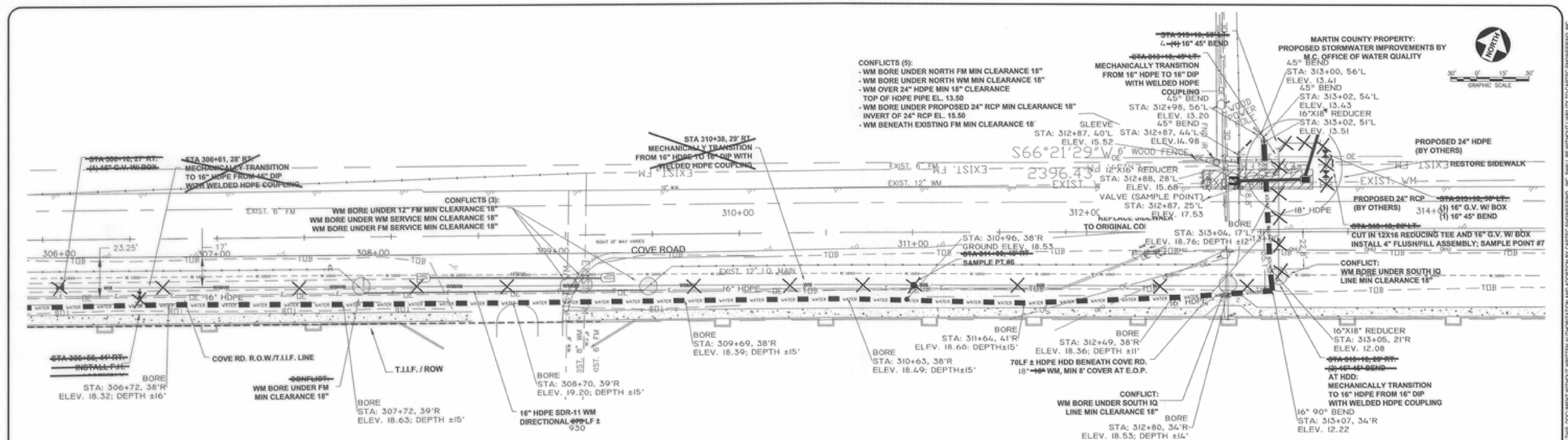
MARTIN COUNTY UTILITIES
WATER MAIN EXTENSION
MARTIN COUNTY, FLORIDA
COVE ROAD - PHASE II
PLAN & PROFILE
STA 297+23 TO 295+96

Joseph W. Capra
300 S.W. St. Lucie Ave.
Stuart, Florida 34994
P.E. No. 37638

Printed Date:

JOB No.: 711-8
SHEET 9 OF 12

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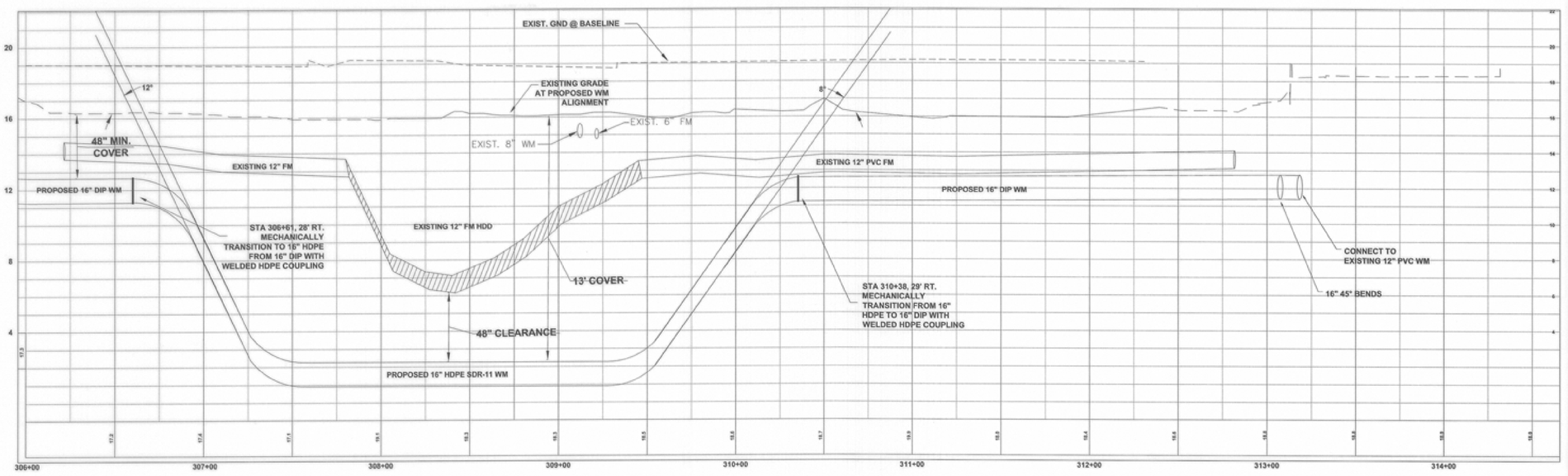
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SW-COVE-RD-WM-PHASE-2-05-010

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CAPTEC Engineering, Inc.
Civil Engineering Professionals

DATE: 4/16/06
DRAWN BY: ADC
DESIGNED BY:
CHECKED BY:
PROJECT No.: 711-8
HORZ. SCALE: AS SHOWN
VERT. SCALE: AS SHOWN
CADD FILE: 711-8.Dwg

NO.	DATE	BY	REVISIONS
1	05/05/06	BRT	AFC PLANS

SCALE VERIFICATION
0 1"
SOLID BAR IS EQUAL TO 1" ON THE ORIGINAL DRAWING. ADJUST ALL SCALED DIMENSIONS ACCORDINGLY

MARTIN COUNTY UTILITIES
WATER MAIN EXTENSION
MARTIN COUNTY, FLORIDA
COVE ROAD - PHASE II
PLAN & PROFILE
STA 306+00 TO 313+18

Joseph W. Capra
300 S.W. St. Lucie Ave.
Stuart, Florida 34994
P.E. No. 37638

Printed Date:

JOB No.: 711-8
SHEET 10 OF 12

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300 SW St. Lucie Ave
Stuart, Florida 34994
Phone: (772) 692-4344
Fax: (772) 692-4454
E-mail: Capitec1@aol.com

CAPTEC Engineering, Inc.
Civil Engineering Professionals

Engineering Business No. EB-0007697

DATE: 4/15/08
DRAWN BY: ADC
DESIGNED BY:
CHECKED BY:
PROJECT No.: 711-8
HORZ. SCALE: AS SHOWN
VERT. SCALE: AS SHOWN
CADD FILE: 711-8.Dwg

NO.	DATE	BY	REVISIONS
1	05/09/08	SRT	AFC PLANS

SCALE VERIFICATION

0 1

SOLID BAR IS EQUAL TO ONE INCH ON ORIGINAL DRAWING. ADJUST ALL SCALED DIMENSIONS ACCORDINGLY

MARTIN COUNTY UTILITIES
WATER MAIN EXTENSION
MARTIN COUNTY, FLORIDA

COVE ROAD - PHASE II
PLAN & PROFILE
STA 306+00 TO 313+18

Joseph W. Capra
300 S.W. St. Lucie Ave.
Stuart, Florida 34994
P.E. No. 37638

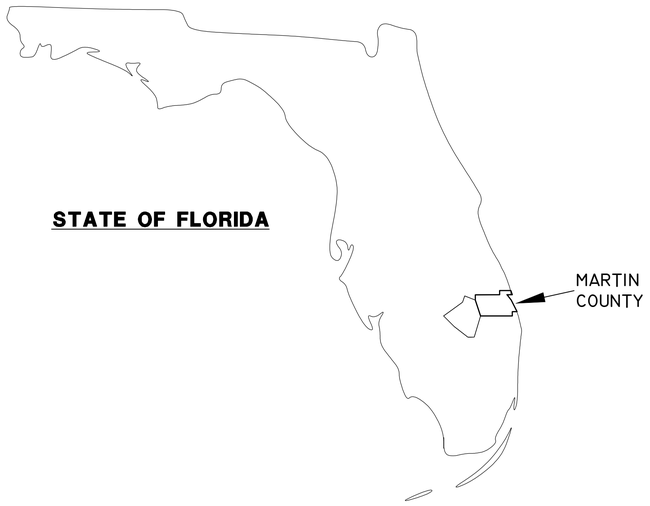
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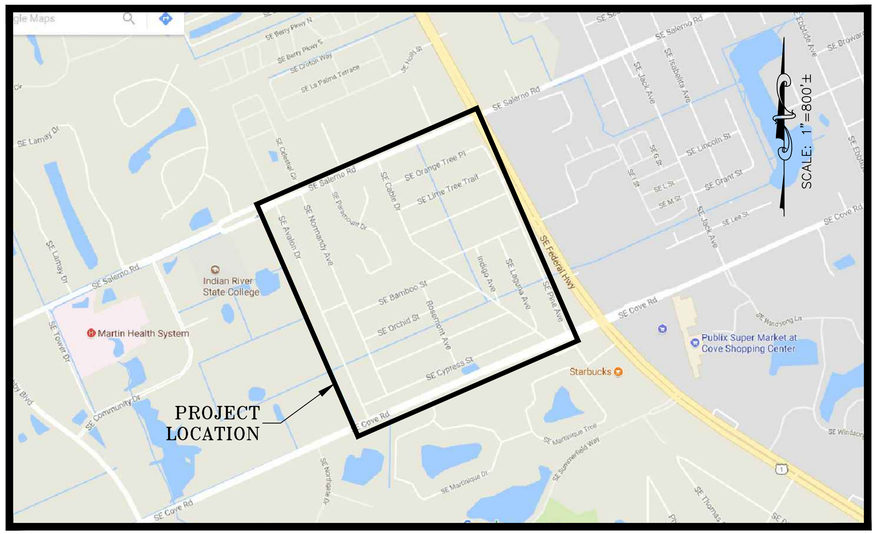
JOB No.: 711-8
SHEET 11 OF 12

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SW-COVE-RD-WM-PHASE-2-05-011

CONSTRUCTION DRAWINGS
FOR
HIBISCUS PARK
MARTIN COUNTY, FL
WATER MAIN EXTENSION





LOCATION MAP

INDEX OF SHEETS

1	COVER SHEET
2-25	WATER MAIN EXTENSION PLAN
26	PROJECT DETAILS
27-28	PROJECT SPECIFICATIONS

BOARD OF MARTIN COUNTY COMMISSIONERS

Doug Smith	COMMISSIONER
Ed Fielding	COMMISSIONER
Harold Jenkins	COMMISSIONER
Sarah Heard	COMMISSIONER
Edward Ciampi	COMMISSIONER
Taryn Kryzda	COUNTY ADMINISTRATOR
John E. Polley	UTILITIES DIRECTOR

SURVEYOR'S NOTES:

1. MEASUREMENTS SHOWN HEREON ARE IN U.S. SURVEY FEET.
2. VERTICAL DATUM IS NAVD88 AND IS BASED ON NATIONAL GEODETIC SURVEY CONTROL POINT GCY D15, HAVING AN NAVD 88 ORTHO HEIGHT OF 16.78 FEET. ELEVATIONS WERE OBTAINED USING GPS RTK.
3. HORIZONTAL DATUM IS NAD 83 (2011) AND IS BASED ON NATIONAL GEODETIC SURVEY CONTROL POINT GCY D15, HAVING A FLORIDA EAST ZONE STATE PLANE COORDINATE OF NORTHING = 1023556.75 FT AND EASTING = 911406.77 FT.
4. VERTICAL ACCURACY IS EXPECTED TO BE +/- 0.10 FT FOR DIRECT SURVEY MEASUREMENTS OBTAINED BY NORTHSTAR SURVEY FIELD CREWS.
5. HORIZONTAL ACCURACY IS EXPECTED TO BE +/- 0.05 FEET FOR DIRECT SURVEY MEASUREMENTS OBTAINED BY NORTHSTAR SURVEY FIELD CREWS.
6. HORIZONTAL CONTROL AND BENCHMARKS WERE NOT PROVIDED WITH CONSTRUCTION PLANS.

AS-BUILTS PREPARED BY:
NORTHSTAR GEOMATICS
617 NE BAKER ROAD, STUART, FLORIDA 34994
PO BOX 2371, STUART, FLORIDA 34995
(772)781-6400 (772)781-6462 FAX
LICENSED BUSINESS NO. 7217

AS-BUILT LEGEND

T.O.N. = TOP OF NUT
T.O.P. = TOP OF PIPE
NG = NATURAL GROUND
EL = ELEVATION
= INDICATES RECORD DRAWING INFORMATION

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THE "AS-BUILT SURVEY" AS SHOWN HEREON IS A TRUE AND CORRECT REPRESENTATION OF A FIELD SURVEY MADE UNDER MY DIRECTION AND CHARGE ON FEBRUARY 18, 2019 AND INFORMATION PROVIDED BY CONTRACTOR AND SAID "AS-BUILT SURVEY" IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF. IT IS FURTHER CERTIFIED THAT THIS "AS-BUILT SURVEY" COMPLIES WITH THE STANDARDS OF PRACTICE SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 5J-17.050-17.52, FLORIDA STATUTES.

NORTHSTAR GEOMATICS, INC.

GREGORY S. FLEMING
FLORIDA REGISTRATION NO. 4350

DATE

REVISIONS	DATE	BY

MARTIN COUNTY UTILITIES
2378 S.E. OCEAN BOULEVARD
STUART, FLORIDA 34995-9000
Phone: (772) 221-1442 Fax: (772) 221-1447

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Hibiscus Park
MARTIN COUNTY, FL
WATER MAIN EXTENSION
COVER SHEET

DATE:	AUG 2017
SCALE:	N.T.S.
DESIGN:	SJV
DRAWN:	SJV
CHECKED:	J.A.C.
DWG:	HP-WMExt-CVR.dwg

DESIGN ENGINEER:
JEREMY A. COVEY, P.E.

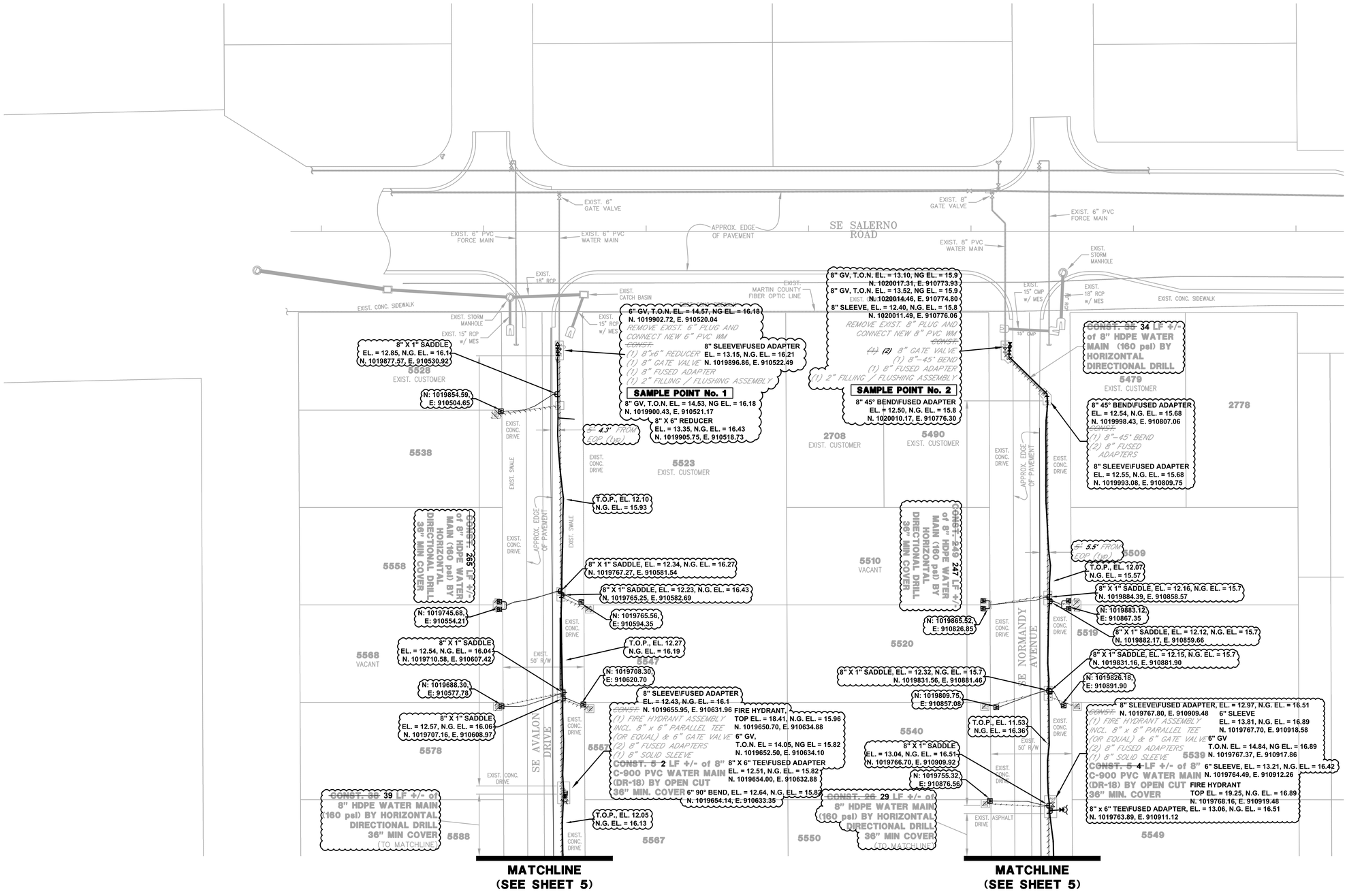
FLORIDA REGISTRATION NUMBER:
75472

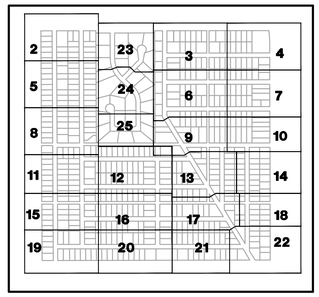
"SEAL"

SHEET **1** OF **28**

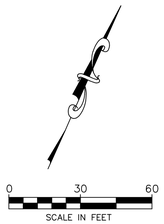
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SW-HIBISCUS-PARK-WATER-MAIN-EXTENSION-2019-07 (SET).PDF





KEY MAP



LEGEND

- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE
- FIRE HYDRANT
- BLOW-OFF
- SAMPLE POINT
- GATE VALVE
- EXISTING GATE VALVE
- EXISTING WATER MAIN
- EXISTING FORCE MAIN
- EXISTING IQ MAIN

NOTE:

1. CONTRACTOR SHALL PROVIDE AS-BUILT CONFLICT INFORMATION (TOP AND BOTTOM OF PIPE ELEVATIONS) ON RECORD DRAWINGS FOR ALL CONFLICTS SHOWN.
2. ALL BURIED AND AERIAL UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND ARE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL COORDINATE WITH MCU PRIOR TO MAKING ANY FIELD ADJUSTMENTS TO ACCOMMODATE BURIED UTILITIES, WHERE IN CONFLICT WITH DESIGN WATER MAIN LOCATION.

VERTICAL DATUM = NAVD88

REVISIONS	DATE	BY

MARTIN COUNTY UTILITIES
2378 S.E. OCEAN BOULEVARD
STUART, FLORIDA 34995-9000
Phone: (772) 221-1442 Fax: (772) 221-1447

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Hibiscus Park

MARTIN COUNTY, FL

WATER MAIN EXTENSION

WATER MAIN EXTENSION PLANS

DATE:	JUNE 2017
SCALE:	1" = 30'
DESIGN:	SJV
DRAWN:	SJV
CHECKED:	J.A.C.
DWG:	HP-WMExt-Plans.dwg

DESIGN ENGINEER:

JEREMY A. COVEY, P.E.

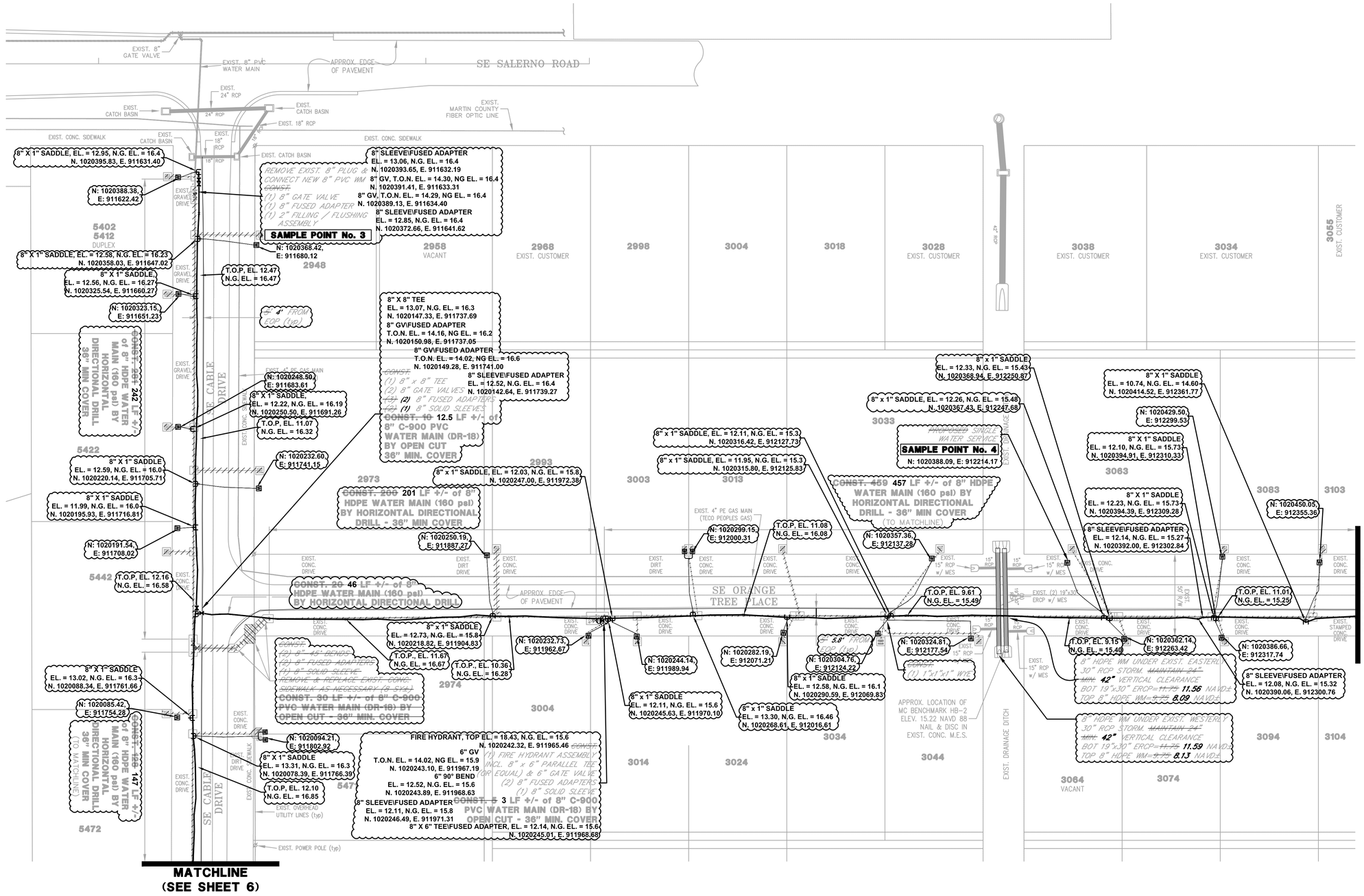
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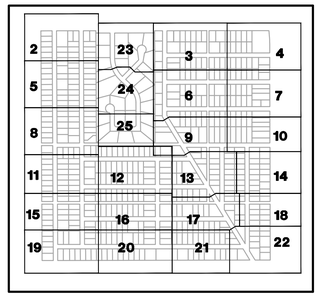
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"SEAL"

SHEET **2** OF **28**

Drawing name: D:\Civil 3D Projects\18-066 Hibiscus Park WM\DWG\18-066 ASBLT HP-WMExt-Plans 121818.dwg Sheet 2 Jul 09, 2019 11:17am by: Admin





KEY MAP

0 30 60

SCALE IN FEET

LEGEND

- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE
- FIRE HYDRANT
- BLOW-OFF
- SAMPLE POINT
- GATE VALVE
- EXISTING GATE VALVE
- EXISTING WATER MAIN
- EXISTING FORCE MAIN
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NOTE:

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VERTICAL DATUM = NAVD88

REVISIONS	DATE	BY

MARTIN COUNTY UTILITIES
2378 S.E. OCEAN BOULEVARD
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Hibiscus Park

MARTIN COUNTY, FL

WATER MAIN EXTENSION

WATER MAIN EXTENSION PLANS

DATE:	JUNE 2017
SCALE:	1" = 30'
DESIGN:	SJV
DRAWN:	SJV
CHECKED:	J.A.C.
DWG:	HP-WMExt-Plans.dwg

DESIGN ENGINEER:

JEREMY A. COVEY, P.E.


FLORIDA REGISTRATION NUMBER:

75472

"SEAL"

SHEET **3** OF **28**

Drawing name: D:\Civil 3D Projects\18-066 Hibiscus Park WM\DWG\18-066 ASBLT HP-WMExt-Plans 121818.dwg Sheet 3 Jul 22, 2019 8:55am by: Admin



SW-HIBISCUS-PARK-WATER-MAIN-EXTENSION-2019-07 (SHTS 1 OF 25).PDF

REVISIONS	DATE	BY

MARTIN COUNTY UTILITIES
2378 S.E. OCEAN BOULEVARD
STUART, FLORIDA 34995-9000
Phone: (772) 221-1442 Fax: (772) 221-1447

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Hibiscus Park

MARTIN COUNTY, FL

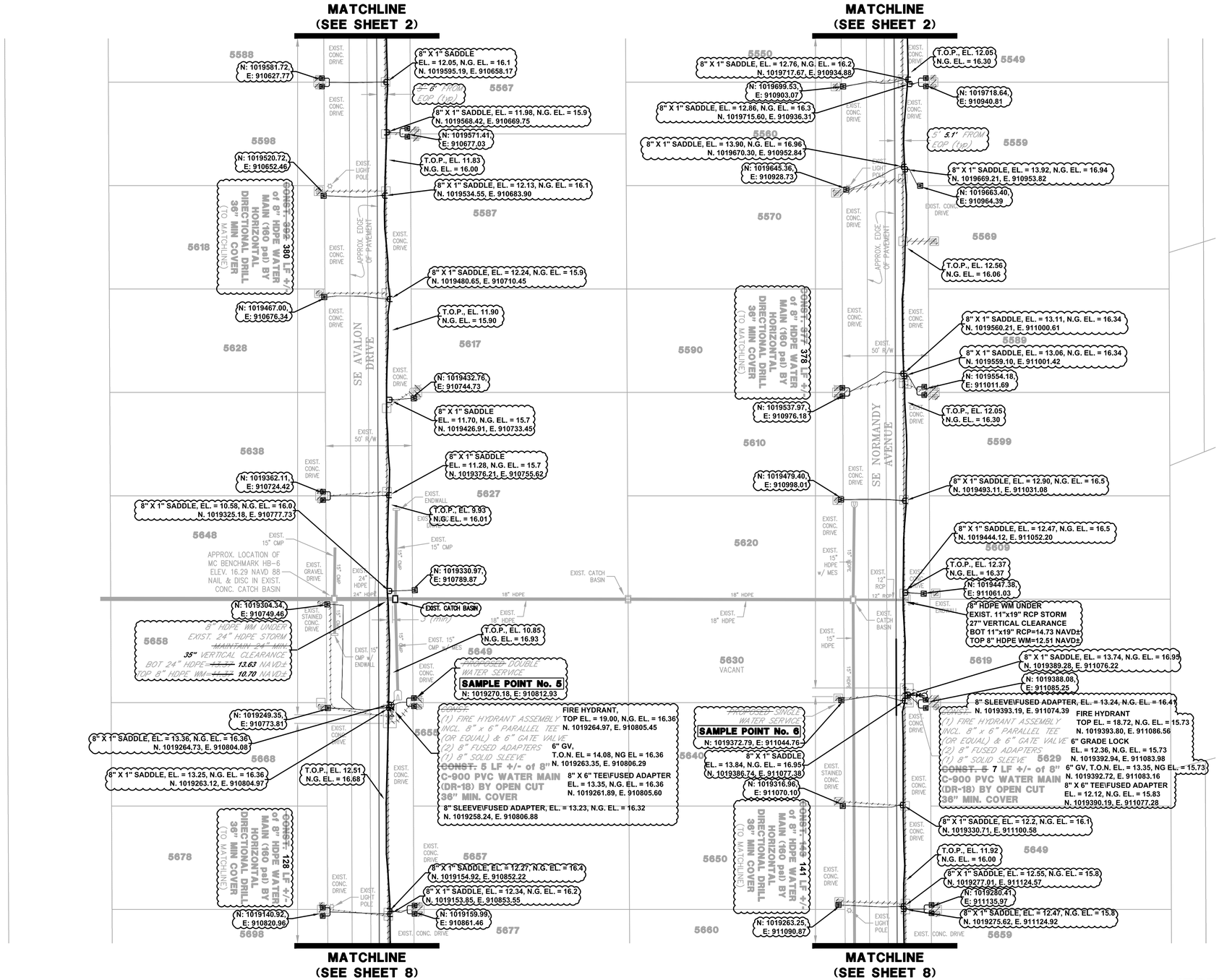
WATER MAIN EXTENSION

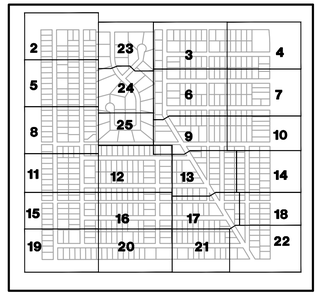
WATER MAIN EXTENSION PLANS

DATE: JUNE 2017
SCALE: 1" = 30'
DESIGN: SJV
DRAWN: SJV
CHECKED: J.A.C.
DWG: HP-WMExt-Plans.dwg

DESIGN ENGINEER: JEREMY A. COVEY, P.E.
FLORIDA REGISTRATION NUMBER: 75472
"SEAL"

SHEET 4 OF 28





KEY MAP

0 30 60

SCALE IN FEET

LEGEND

- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE
- FIRE HYDRANT
- BLOW–OFF
- SAMPLE POINT
- GATE VALVE
- EXISTING GATE VALVE
- EXISTING WATER MAIN
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NOTE:

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VERTICAL DATUM = NAVD88

REVISIONS	DATE	BY
REVISED WATER SERVICE LOCATION AT 5658, SE AVALON DR	8–31–18	SJV

MARTIN COUNTY UTILITIES
2378 S.E. OCEAN BOULEVARD
STUART, FLORIDA 34995-9000
Phone: (772) 221-1442 Fax: (772) 221-1447

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Hibiscus Park

MARTIN COUNTY, FL

WATER MAIN EXTENSION

WATER MAIN EXTENSION PLANS

DATE:	JUNE 2017
SCALE:	1" = 30'
DESIGN:	SJV
DRAWN:	SJV
CHECKED:	J.A.C.
DWG:	HP–WMExt–Plans.dwg

DESIGN ENGINEER:
JEREMY A. COVEY, P.E.

FLORIDA REGISTRATION NUMBER:
75472

"SEAL"

SHEET **5** OF **28**

Drawing name: D:\Civil 3D Projects\18-066 Hibiscus Park WM\DWG\18-066 ASBLT HP-WMExt-Plans 121818.dwg Sheet 5 Jul 26, 2019 2:49pm by: Admin

MATCHLINE (SEE SHEET 3)

MATCHLINE (SEE SHEET 7)

MATCHLINE (SEE SHEET 9)

8" X 1" SADDLE, EL. = 13.53, N.G. EL. = 16.77
N. 1019987.93, E. 911805.10

CONST. 8" SLEEVE\FUSED ADAPTER, EL. = 13.39, N.G. EL. = 16.4, N. 1019990.54, E. 911803.83
(1) FIRE HYDRANT ASSEMBLY INCL. 8" x 6" TEE\FUSED ADAPTER, EL. = 13.46, N.G. EL. = 16.88, N. 1019986.42, E. 911805.70
(OR EQUAL) & 6" GATE VALVE 6" SLEEVE, EL. = 13.48, N.G. EL. = 16.88, N. 1019986.01, E. 911804.60
(2) 8" FUSED ADAPTERS 6" GRADE LOCK, EL. = 13.56, N.G. EL. = 17.65, N. 1019983.86, E. 911799.06
(1) 8" SOLID SLEEVE 6" GRADE LOCK, EL. = 13.98, N.G. EL. = 17.65, N. 1019984.17, E. 911797.54
CONST. 5 LF +/- of 8" C-900 FIRE HYDRANT
PVC WATER MAIN (DR-18) BY TOP EL. = 20.46, N.G. EL. = 17.65
OPEN CUT - 36" MIN. COVER N. 1019983.92, E. 911796.46

5472
N: 1019981.68
E: 911798.89

CONST. 19 LF +/- of 8" HDPE WATER MAIN (160 psi) BY HORIZONTAL DIRECTIONAL DRILL 36" MIN COVER (TO MATCHLINE)

T.O.P., EL. 12.16
N.G. EL. = 16.33

CONST. 295 LF +/- of 8" HDPE WATER MAIN (160 psi) BY HORIZONTAL DIRECTIONAL DRILL 36" MIN COVER

CONST. 295 LF +/- of 8" HDPE WATER MAIN (160 psi) BY HORIZONTAL DIRECTIONAL DRILL 36" MIN COVER

CONST. 295 295 LF +/- of 8" HDPE WATER MAIN (160 psi) BY HORIZONTAL DIRECTIONAL DRILL 36" MIN COVER

CONST. 113 LF +/- of 8" HDPE WATER MAIN (160 psi) BY HORIZONTAL DIRECTIONAL DRILL 36" MIN COVER (TO MATCHLINE)

5491

5512

T.O.P., EL. 11.80
N.G. EL. = 16.55

T.O.P., EL. 12.74
N.G. EL. = 17.16

8" X 1" SADDLE
EL. = 12.37, N.G. EL. = 16.7
N. 1019942.04, E. 912020.44

N: 1019928.15,
E: 911902.72

N: 1019873.11,
E: 911846.04

8" X 1" SADDLE
EL. = 12.51, N.G. EL. = 17.0
N. 1019878.20, E. 911853.78

8" X 1" SADDLE
EL. = 11.90
N.G. EL. = 16.73
N. 1019894.55
E. 911916.99

5532

T.O.P., EL. 12.24
N.G. EL. = 16.74

5' 4.7" FROM EOP (typ.)

8" X 1" SADDLE
EL. = 12.86, N.G. EL. = 16.6
N. 1019780.55, E. 911895.28

N: 1019795.32,
E: 911938.79

CONST. 245 258 LF +/- of 8" HDPE WATER MAIN (160 psi) BY HORIZONTAL DIRECTIONAL DRILL 36" MIN COVER

5542

8" X 1" SADDLE
EL. = 13.23, N.G. EL. = 16.3
N. 1019651.20, E. 911950.00

PROPERTY OWNER'S WATER SERVICE
SAMPLE POINT No. 7

N: 1019648.03,
E: 911941.94

T.O.P., EL. 11.79
N.G. EL. = 16.29

T.O.P., EL. 11.33
N.G. EL. = 16.50

T.O.P., EL. 12.73
N.G. EL. = 16.90

CONST. 87 53 LF +/- of 8" HDPE WATER MAIN (160 psi) BY HORIZONTAL DIRECTIONAL DRILL 36" MIN COVER (TO MATCHLINE)

5592

CONST. 87 87 LF +/- of 8" HDPE WATER MAIN (160 psi) BY HORIZONTAL DIRECTIONAL DRILL 36" MIN COVER

5572

T.O.P., EL. 12.84
N.G. EL. = 16.76

N: 1019531.89,
E: 911991.91

6A
SEE MIDDLE OF SHEET

CONST. 87 87 LF +/- of 8" HDPE WATER MAIN (160 psi) BY HORIZONTAL DIRECTIONAL DRILL 36" MIN COVER

5541

8" GV\FUSED ADAPTER, T.O.N. EL. = 14.52, NG EL. = 16.8
N. 1019636.19, E. 911958.60
CONST. 8" X 8" TEE, EL. = 13.01, N.G. EL. = 16.8
(1) 8" x 8" TEE N. 1019635.93, E. 911957.36
(2) 8" GATE VALVES 8" SLEEVE\FUSED ADAPTER
(3) 8" FUSED ADAPTERS EL. = 12.52, N.G. EL. = 16.8
(2) 8" SOLID SLEEVES N. 1019636.96, E. 911956.66
CONST. 10 LF +/- of 8" C-900 8" GV\FUSED ADAPTER
PVC WATER MAIN (DR-18) BY T.O.N. EL. = 14.59, NG EL. = 16.4
OPEN CUT - 36" MIN. COVER N. 1019628.96, E. 911959.50

8" X 1" SADDLE, EL. = 13.68, N.G. EL. = 17.04
N. 1019541.95, E. 911998.87

8" SLEEVE\FUSED ADAPTER
EL. = 12.53, N.G. EL. = 16.6
N. 1019883.32, E. 911851.34
CONST. 8" 11.25° BEND\FUSED ADAPTER
(1) 8" x 8" TEE EL. = 12.60, N.G. EL. = 17.1
(2) 8" GATE VALVES N. 1019880.95, E. 911856.50
(3) 8" FUSED ADAPTERS 8" X 8" TEE, EL. = 12.52, N.G. EL. = 17.0
(2) 8" SOLID SLEEVES N. 1019879.35, E. 911853.29
CONST. 10 LF +/- of 8" C-900 8" GV
PVC WATER MAIN (DR-18) BY T.O.N. EL. = 13.90, NG EL. = 17.1
OPEN CUT - 36" MIN. COVER N. 1019879.78, E. 911855.25

8" GV\FUSED ADAPTER, T.O.N. EL. = 13.76, NG EL. = 16.7
N. 1019873.96, E. 911855.61

8" X 1" SADDLE
EL. = 12.56, N.G. EL. = 16.5
N. 1019963.52, E. 912069.19

N: 1019999.96,
E: 912064.80

T.O.P., EL. 12.71
N.G. EL. = 16.46

T.O.P., EL. 12.19
N.G. EL. = 16.61

N: 1019957.14,
E: 912086.50

T.O.P., EL. 12.31
N.G. EL. = 16.73

N: 1019933.43,
E: 912030.46

8" X 1" SADDLE
EL. = 12.52, N.G. EL. = 16.5
N. 1019964.40, E. 912071.64

N: 1019912.08,
E: 911975.92

8" X 1" SADDLE
EL. = 12.64, N.G. EL. = 16.9
N. 1019916.91, E. 911967.39

5491

5512

3000

3019

3029

3030

3040

3045

3055

3056

3065

3066

3075

3076

3085

3086

3095

3096

3105

3106

6A
SEE BELOW LEFT

8" X 6" TEE\FUSED ADAPTER, EL. = 13.94, N.G. EL. = 17.06
N. 1019549.12, E. 911995.15 6" GV, T.O.N. EL. = 14.84, NG EL. = 17.06
CONST. N. 1019547.14, E. 911994.75
(1) FIRE HYDRANT ASSEMBLY INCL. 8" x 6"
PARALLEL TEE (OR EQUAL) & 6" GATE VALVE
(1) 8"-22.5° BEND 6" 90° BEND, EL. = 13.62, N.G. EL. = 17.06
(2) 8" FUSED ADAPTERS N. 1019548.08, E. 911994.00
(1) 8" SOLID SLEEVE
CONST. 5 LF +/- of 8" C-900 PVC WATER MAIN (DR-18) BY OPEN CUT-36" MIN. COVER
FIRE HYDRANT, TOP EL. = 19.31, N.G. EL. = 16.97
N. 1019545.60, E. 911995.74
8" SLEEVE\FUSED ADAPTER, EL. = 13.89, N.G. EL. = 16.97
N. 1019545.00, E. 911997.68

8" X 1" SADDLE
EL. = 13.77, N.G. EL. = 16.89
N. 1019740.06, E. 912245.36

N: 1019749.28,
E: 912240.93

N: 1019723.87,
E: 912179.55

T.O.P., EL. 11.57
N.G. EL. = 16.32

5' 4.4' FROM EOP (typ.)

CONST. 268 264 LF +/- of 8" HDPE WATER MAIN (160 psi) BY HORIZONTAL DIRECTIONAL DRILL 36" MIN COVER

8" X 1" SADDLE
EL. = 12.34, N.G. EL. = 16.3
N. 1019675.62, E. 912102.16

CONST. 20 24 LF +/- of 8" HDPE WATER MAIN (160 psi) BY HORIZONTAL DIRECTIONAL DRILL

8" X 1" SADDLE, EL. = 12.34, N.G. EL. = 16.3
N. 1019676.44, E. 912103.51

N: 1019682.36,
E: 912205.77

T.O.P., EL. 11.66
N.G. EL. = 16.08

N: 1019645.52,
E: 912120.55

N: 1019658.03,
E: 912149.90

8" X 1" SADDLE
EL. = 12.12, N.G. EL. = 16.0
N. 1019690.22, E. 912132.42

8" X 1" SADDLE, EL. = 12.41, N.G. EL. = 16.0
N. 1019716.98, E. 912189.02

8" X 1" SADDLE, EL. = 11.96, N.G. EL. = 16.0
N. 1019717.17, E. 912188.16

N: 1020107.30,
E: 912312.43

8" X 1" SADDLE, EL. = 11.92, N.G. EL. = 15.8
N. 1020012.14, E. 912190.55

8" X 1" SADDLE, EL. = 11.94, N.G. EL. = 15.8
N. 1020013.21, E. 912191.60

N: 1020004.53,
E: 912193.98

N: 1020047.86,
E: 912175.67

T.O.P., EL. 12.49
N.G. EL. = 16.24

T.O.P., EL. 11.50
N.G. EL. = 15.67

3059

3089

CONST. 411 LF +/- of 8" HDPE WATER MAIN (160 psi) BY HORIZONTAL DIRECTIONAL DRILL 36" MIN COVER (TO MATCHLINE)

3109

3119

3129

8" X 1" SADDLE
EL. = 12.30, N.G. EL. = 15.63
N. 1020093.84, E. 912373.40

AS-BUILT CATCH BASIN

8" HDPE WM UNDER EXIST. 30" RCP STORM MAINTAIN 24" MIN. 7" VERTICAL CLEARANCE

FIRE HYDRANT
TOP EL. = 18.44, N.G. EL. = 15.96
N. 1019987.27, E. 912134.33
6" GV, T.O.N. EL. = 14.14, NG EL. = 15.8
CONST. N. 1019986.62, E. 912132.51
(1) FIRE HYDRANT ASSEMBLY 6" 90° BEND, EL. = 13.03, N.G. EL. = 15.8
INCL. 8" x 6" PARALLEL TEE N. 1019985.55, E. 912130.89
(OR EQUAL) & 6" GATE VALVE 8" X 6" TEE\FUSED ADAPTER
(1) 8" SOLID SLEEVE EL. = 12.73, N.G. EL. = 15.8
CONST. 5 4 LF +/- of 8" C-900 N. 1019985.80, E. 912131.08
PVC WATER MAIN (DR-18) BY 8" SLEEVE\FUSED ADAPTER
OPEN CUT - 36" MIN. COVER EL. = 12.79, N.G. EL. = 15.96
N. 1019987.20, E. 912133.54

3050

3070

3100

3120

3130

N: 1020130.38,
E: 912365.12

8" X 1" SADDLE
EL. = 12.37, N.G. EL. = 15.71
N. 1020094.67, E. 912374.74

8" X 1" SADDLE
EL. = 11.03, N.G. EL. = 15.19
N. 1020110.44, E. 912420.12

8" X 1" SADDLE
EL. = 11.08, N.G. EL. = 15.19
N. 1020110.82, E. 912421.37

N: 1020155.86,
E: 912421.02

N: 1020178.17,
E: 912476.42

CONST. (1) 12"x1" W.S.

T.O.P., EL. 11.41
N.G. EL. = 15.91

N: 1020103.68,
E: 912420.69

N: 1020084.96,
E: 912379.85

T.O.P., EL. 10.75
N.G. EL. = 15.58

8" SLEEVE\FUSED ADAPTER
EL. = 12.35, N.G. EL. = 15.94
N. 1020133.24, E. 912468.12

8" SLEEVE\FUSED ADAPTER
EL. = 12.10, N.G. EL. = 15.88
N. 1020135.04, E. 912471.67

8" X 1" SADDLE
EL. = 12.26, N.G. EL. = 15.98
N. 1020139.07, E. 912477.24

FIRE HYDRANT, TOP EL. = 19.44, N.G. EL. = 16.4
CONST. N. 1019742.30, E. 912247.59 6" GV
(1) FIRE HYDRANT ASSEMBLY T.O.N. EL. = 14.73, NG EL. = 16.4
INCL. 8" x 6" PARALLEL TEE N. 1019743.17, E. 912248.84
(OR EQUAL) & 6" GATE VALVE 8" X 6" TEE\FUSED ADAPTER
(2) 8" FUSED ADAPTERS EL. = 13.52, N.G. EL. = 17.04
(1) 8" SOLID SLEEVE N. 1019743.22, E. 912251.00
CONST. 5 LF +/- of 8" C-900
PVC WATER MAIN (DR-18) BY 6" 90° BEND
OPEN CUT - 36" MIN. COVER EL. = 13.93, N.G. EL. = 17.07
N. 1019743.56, E. 912251.02
8" SLEEVE\FUSED ADAPTER
EL. = 13.40, N.G. EL. = 16.4
N. 1019744.16, E. 912255.63

8" X 1" SADDLE, EL. = 11.81, N.G. EL. = 16.4
N. 1019768.12, E. 912312.74

N: 1019791.94,
E: 912337.00

8" X 1" SADDLE, EL. = 11.33, N.G. EL. = 15.4
N. 1019782.49, E. 912346.52

8" X 1" SADDLE, EL. = 11.30, N.G. EL. = 15.4
N. 1019783.18, E. 912348.13

3115 VACANT

3125 VACANT

3135

3155

8" X 1" SADDLE
EL. = 11.56, N.G. EL. = 15.68
N. 1019844.79, E. 912492.02

N: 1019902.26,
E: 912595.37

N: 1019878.63,
E: 912540.43

8" HDPE WM UNDER EXIST. 19"x30" ERCP STORM MAINTAIN 24" MIN. 33" VERTICAL CLEARANCE
BOT 19"x30" ERCP=~~13.10~~ 12.14 NAVD
TOP 8" HDPE WM=~~13.76~~ 9.40 NAVD

N: 1019853.96,
E: 912483.19

T.O.P., EL. 11.07
N.G. EL. = 15.82

8" X 1" SADDLE
EL. = 10.97, N.G. EL. = 15.29
N. 1019844.16, E. 912488.77

CONST. (1) 12"x1" W.S.

N: 1019788.61,
E: 912452.47

N: 1019817.82,
E: 912503.40

8" X 1" SADDLE
EL. = 11.50, N.G. EL. = 15.5
N. 1019869.61, E. 912543.37

8" X 1" SADDLE, EL. = 11.62, N.G. EL. = 15.2
N. 1019893.01, E. 912597.49

8" X 1" SADDLE, EL. = 11.47, N.G. EL. = 15.5
N. 1019893.73, E. 912598.36

N: 1019754.30,
E: 912372.89

T.O.P., EL. 11.44
N.G. EL. = 15.77

APPROX. LOCATION OF MC BENCHMARK HB-3 ELEV. 15.45 NAVD 88 NAIL & DISC IN EXIST. CONC. CATCH BASIN

CONST. 394 396 LF +/- of 8" HDPE WATER MAIN (160 psi) BY HORIZONTAL DIRECTIONAL DRILL 36" MIN COVER (TO MATCHLINE)

3126

3146

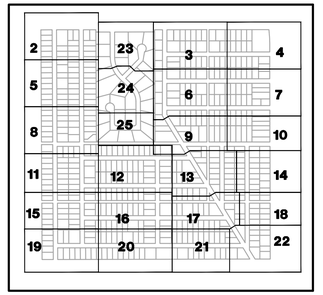
3156

SE CABLE DRIVE

SE LIME TREE TERRACE

SE MIMOSA STREET

EXIST. CONC. DRIVE
EXIST. CONC. APRON
EXIST. GRAVEL DRIVE
EXIST. CONC. SIDEWALK
EXIST. POWER POLE (typ)
EXIST. OVERHEAD UTILITY LINES (typ)
EXIST. 30" RCP w/ MES
EXIST. 18" CMP w/ MES
EXIST. 15" CMP
EXIST. 24" RCP
EXIST. CATCH BASINS
EXIST. ASPHALT DRIVE
EXIST. DRAINAGE DITCH
EXIST. DIRT DRIVE
EXIST. GRAVEL DRIVE
EXIST. STAINED CONC. DRIVE
APPROX. EDGE OF PAVEMENT
5' FROM EOP (typ)
R400



KEY MAP



0 30 60
SCALE IN FEET

LEGEND

- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE
- FIRE HYDRANT
- BLOW-OFF
- SAMPLE POINT
- GATE VALVE
- EXISTING GATE VALVE
- EXISTING WATER MAIN
- EXISTING FORCE MAIN
- EXISTING IQ MAIN

NOTE:

1. CONTRACTOR SHALL PROVIDE AS-BUILT CONFLICT INFORMATION (TOP AND BOTTOM OF PIPE ELEVATIONS) ON RECORD DRAWINGS FOR ALL CONFLICTS SHOWN.
2. ALL BURIED AND AERIAL UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND ARE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL COORDINATE WITH MCU PRIOR TO MAKING ANY FIELD ADJUSTMENTS TO ACCOMMODATE BURIED UTILITIES, WHERE IN CONFLICT WITH DESIGN WATER MAIN LOCATION.

VERTICAL DATUM = NAVD88

REVISIONS	DATE	BY

MARTIN COUNTY UTILITIES
2378 S.E. OCEAN BOULEVARD
STUART, FLORIDA 34995-9000
Phone: (772) 221-1442 Fax: (772) 221-1447

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Hibiscus Park

MARTIN COUNTY, FL

WATER MAIN EXTENSION

WATER MAIN EXTENSION PLANS

DATE:	JUNE 2017
SCALE:	1" = 30'
DESIGN:	SJV
DRAWN:	SJV
CHECKED:	J.A.C.
DWG:	HP-WMExt-Plans.dwg

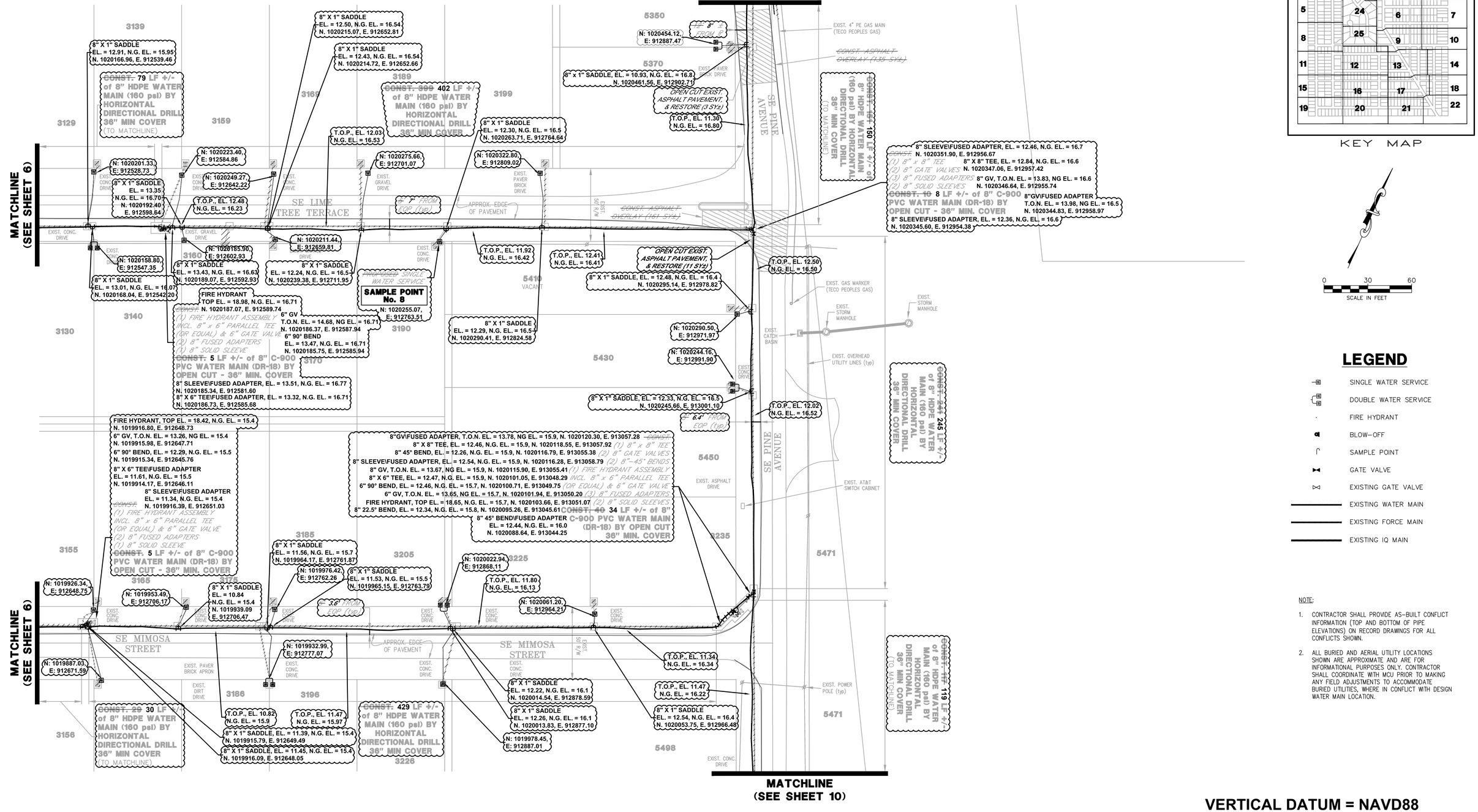
DESIGN ENGINEER:
JEREMY A. COVEY, P.E.

FLORIDA REGISTRATION NUMBER:
75472

"SEAL"

SHEET 6 OF 28

Drawing name: D:\Civil 3D Projects\18-066 Hibiscus Park WM\DWG\18-066 ASBLT HP-WMExt-Plans 121818.dwg Sheet 6 Jul 31, 2019 11:50am by: Admin



KEY MAP

0 30 60

SCALE IN FEET

LEGEND

- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE
- FIRE HYDRANT
- BLOW–OFF
- SAMPLE POINT
- GATE VALVE
- EXISTING GATE VALVE
- EXISTING WATER MAIN
- EXISTING FORCE MAIN
- EXISTING IQ MAIN

NOTE:

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VERTICAL DATUM = NAVD88

REVISIONS	DATE	BY

MARTIN COUNTY UTILITIES
2378 S.E. OCEAN BOULEVARD
STUART, FLORIDA 34995-9000
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Hibiscus Park

MARTIN COUNTY, FL

WATER MAIN EXTENSION

WATER MAIN EXTENSION PLANS

DATE:	JUNE 2017
SCALE:	1" = 30'
DESIGN:	SJV
DRAWN:	SJV
CHECKED:	J.A.C.
DWG:	HP–WMExt–Plans.dwg

DESIGN ENGINEER:

JEREMY A. COVEY, P.E.

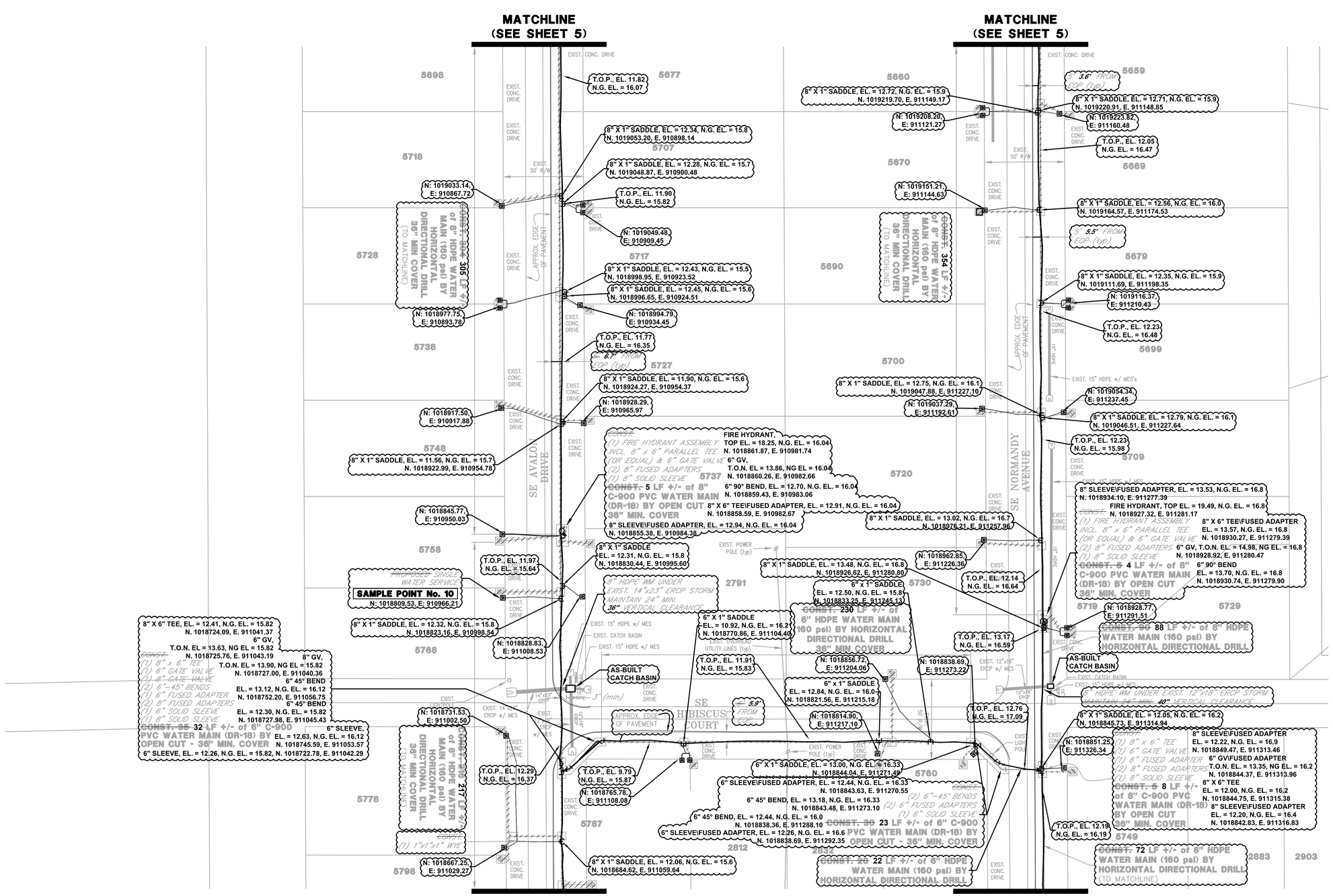
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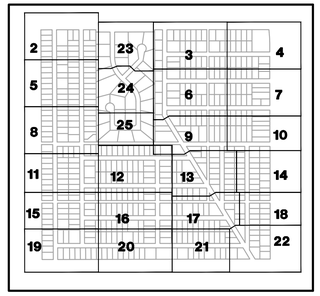
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"SEAL"

SHEET **7** OF **28**

Drawing name: D:\Civil 3D Projects\18-066 Hibiscus Park WM\DWG\18-066 ASBLT HP-WMExt-Plans 121818.dwg Sheet 7 Jul 26, 2019 2:49pm by: Admin





KEY MAP

0 30 60

SCALE IN FEET

LEGEND

- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE
- FIRE HYDRANT
- BLOW-OFF
- SAMPLE POINT
- GATE VALVE
- EXISTING GATE VALVE
- EXISTING WATER MAIN
- EXISTING FORCE MAIN
- EXISTING IQ MAIN

NOTE:

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VERTICAL DATUM = NAVD88

REVISIONS	DATE	BY

MARTIN COUNTY UTILITIES
2378 S.E. OCEAN BOULEVARD
STUART, FLORIDA 34995-9000
Phone: (772) 221-1442 Fax: (772) 221-1447

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Hibiscus Park

MARTIN COUNTY, FL

WATER MAIN EXTENSION

WATER MAIN EXTENSION PLANS

DATE:	JUNE 2017
SCALE:	1" = 30'
DESIGN:	SJV
DRAWN:	SJV
CHECKED:	J.A.C.
DWG:	HP-WMExt-Plans.dwg

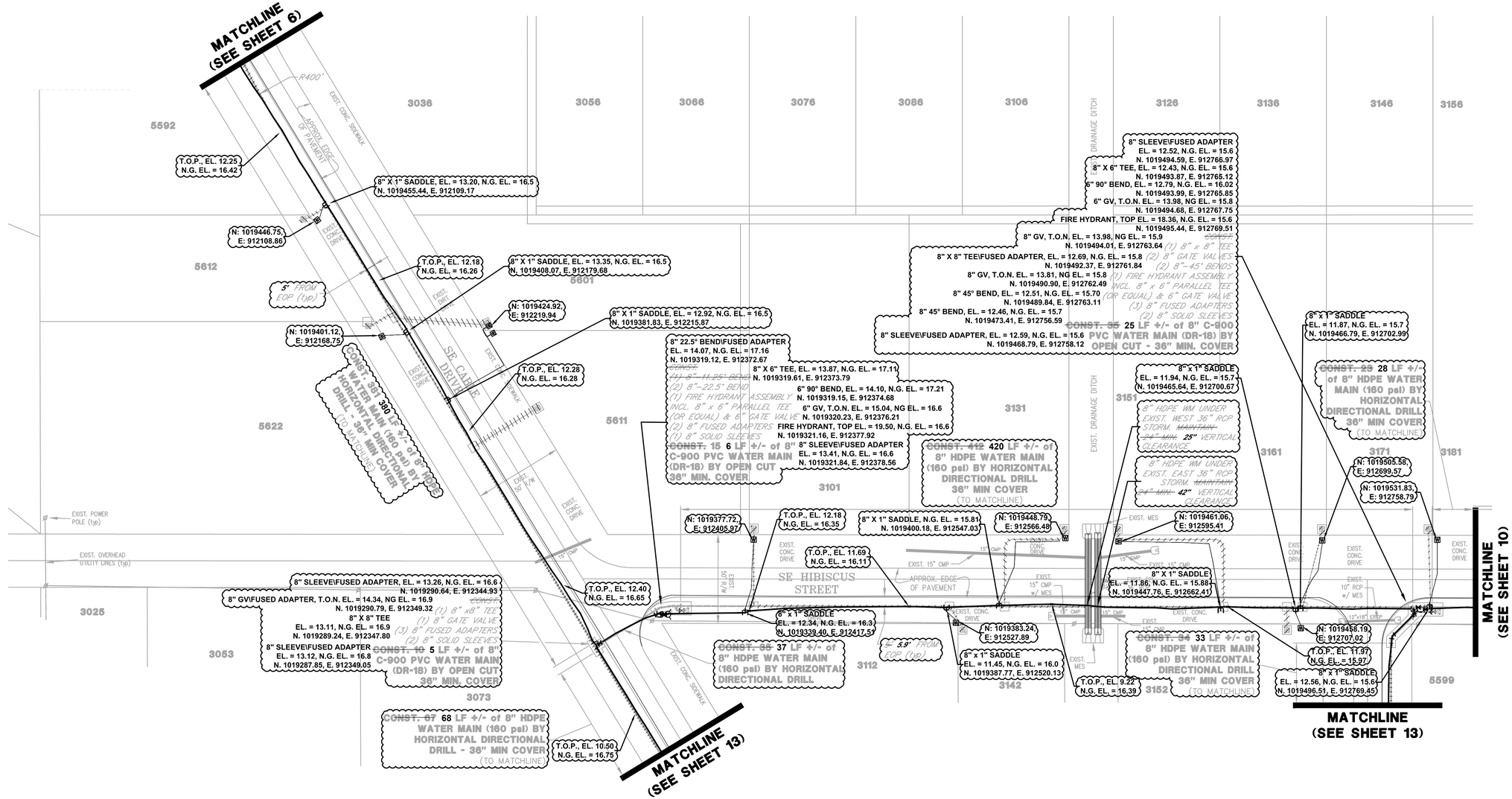
DESIGN ENGINEER:
JEREMY A. COVEY, P.E.

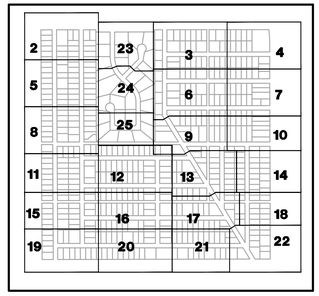
FLORIDA REGISTRATION NUMBER:
75472

"SEAL"

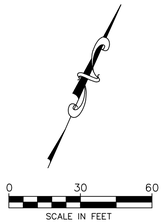
SHEET **8** OF **28**

Drawing name: D:\Civil 3D Projects\18-066 Hibiscus Park WM\DWG\18-066 ASBLT HP-WMExt-Plans 121818.dwg Sheet 8 Jul 26, 2019 3:50pm by: Admin





KEY MAP



LEGEND

- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE
- FIRE HYDRANT
- BLOW–OFF
- SAMPLE POINT
- GATE VALVE
- EXISTING GATE VALVE
- EXISTING WATER MAIN
- EXISTING FORCE MAIN
- EXISTING IQ MAIN

NOTE:

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VERTICAL DATUM = NAVD88

REVISIONS	DATE	BY
REVISED WATER SERVICE LOCATION AT 5612, SE CABLE DR	8–31–18	SJV

MARTIN COUNTY UTILITIES
2378 S.E. OCEAN BOULEVARD
STUART, FLORIDA 34995-9000
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Hibiscus Park

MARTIN COUNTY, FL

WATER MAIN EXTENSION

WATER MAIN EXTENSION PLANS

DATE:	JUNE 2017
SCALE:	1" = 30'
DESIGN:	SJV
DRAWN:	SJV
CHECKED:	J.A.C.
DWG:	HP–WMExt–Plans.dwg

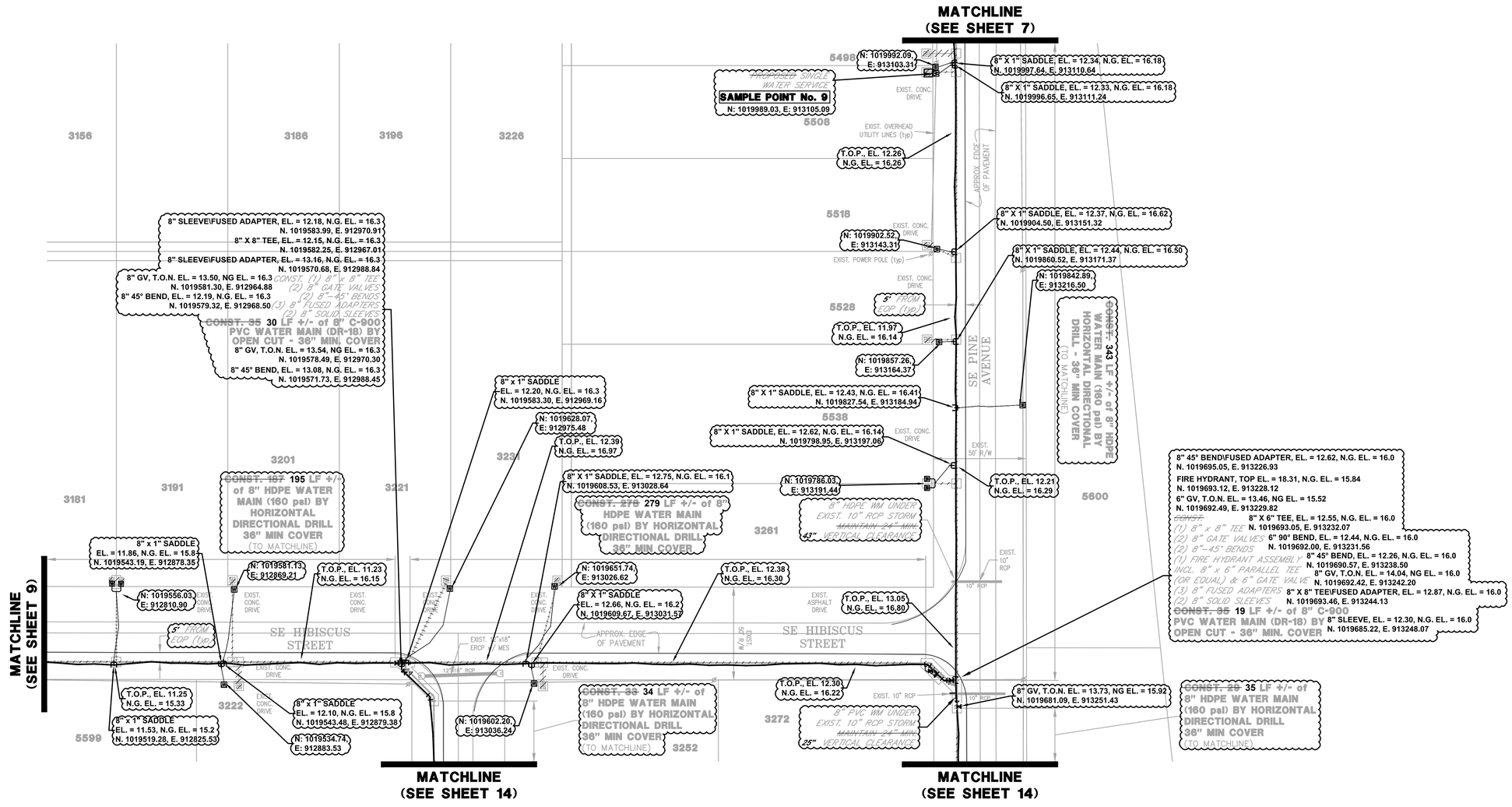
DESIGN ENGINEER:
JEREMY A. COVEY, P.E.

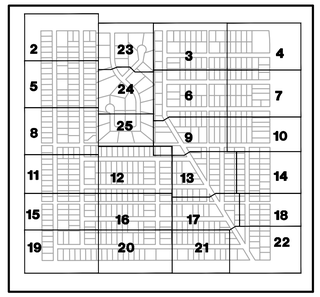
FLORIDA REGISTRATION NUMBER:
75472

"SEAL"

SHEET **9** OF **28**

Drawing name: D:\Civil 3D Projects\18–066 Hibiscus Park WW\DWG\18–066 ASBLT HP–WMExt–Plans 121818.dwg Sheet 9 Jul 26, 2019 2:50pm by: Admin





KEY MAP



0 30 60

SCALE IN FEET

LEGEND

- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE
- FIRE HYDRANT
- BLOW-OFF
- SAMPLE POINT
- GATE VALVE
- EXISTING GATE VALVE
- EXISTING WATER MAIN
- EXISTING FORCE MAIN
- EXISTING IQ MAIN

NOTE:

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VERTICAL DATUM = NAVD88

REVISIONS	DATE	BY

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STUART, FLORIDA 34995-9000
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Hibiscus Park

MARTIN COUNTY, FL

WATER MAIN EXTENSION

WATER MAIN EXTENSION PLANS

DATE:	JUNE 2017
SCALE:	1" = 30'
DESIGN:	SJV
DRAWN:	SJV
CHECKED:	J.A.C.
DWG:	HP-WMExt-Plans.dwg

DESIGN ENGINEER:

JEREMY A. COVEY, P.E.

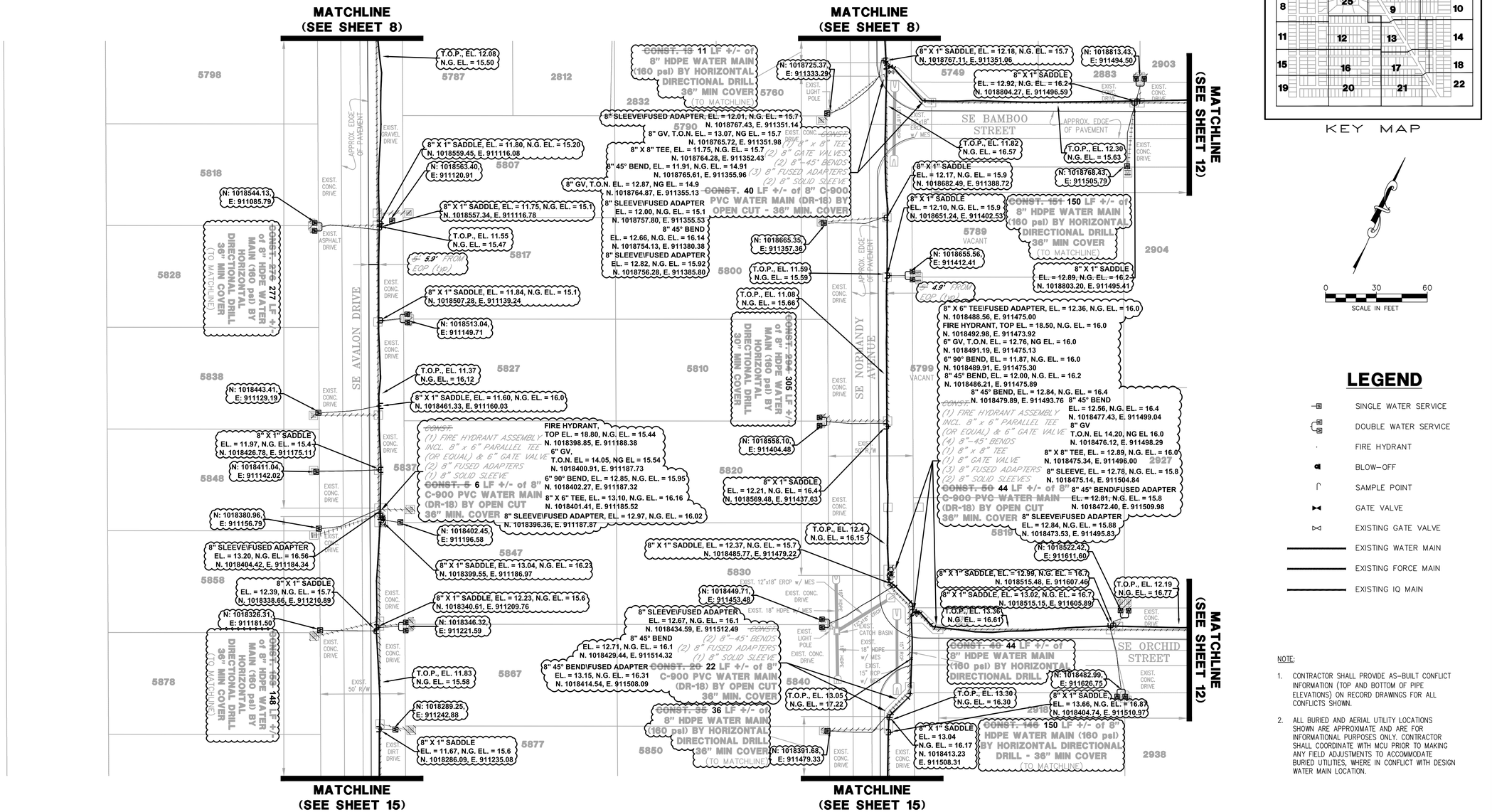
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75472

"SEAL"

SHEET **10** OF **28**

Drawing name: D:\Civil 3D Projects\18-066 Hibiscus Park WM\DWG\18-066 ASBLT HP-WMExt-Plans 121818.dwg Sheet 10 Jul 09, 2019 11:19am by: Admin



KEY MAP

0 30 60

SCALE IN FEET

LEGEND

- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE
- FIRE HYDRANT
- BLOW–OFF
- SAMPLE POINT
- GATE VALVE
- EXISTING GATE VALVE
- EXISTING WATER MAIN
- EXISTING FORCE MAIN
- EXISTING IQ MAIN

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VERTICAL DATUM = NAVD88

REVISIONS	DATE	BY
REVISED WATER SERVICE LOCATION AT 5819, SE NORMANDY AVE BACK TO ORIGINAL LOCATION (DOUBLE SERVICE @ 5819/2927)	10–12–18	SJV
REVISED WATER SERVICE LOCATION AT 5819, SE NORMANDY AVE	8–31–18	SJV

MARTIN COUNTY UTILITIES
2378 S.E. OCEAN BOULEVARD
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Hibiscus Park

MARTIN COUNTY, FL

WATER MAIN EXTENSION

WATER MAIN EXTENSION PLANS

DATE:	JUNE 2017
SCALE:	1" = 30'
DESIGN:	SJV
DRAWN:	SJV
CHECKED:	J.A.C.
DWG:	HP–WMExt–Plans.dwg

DESIGN ENGINEER:

JEREMY A. COVEY, P.E.

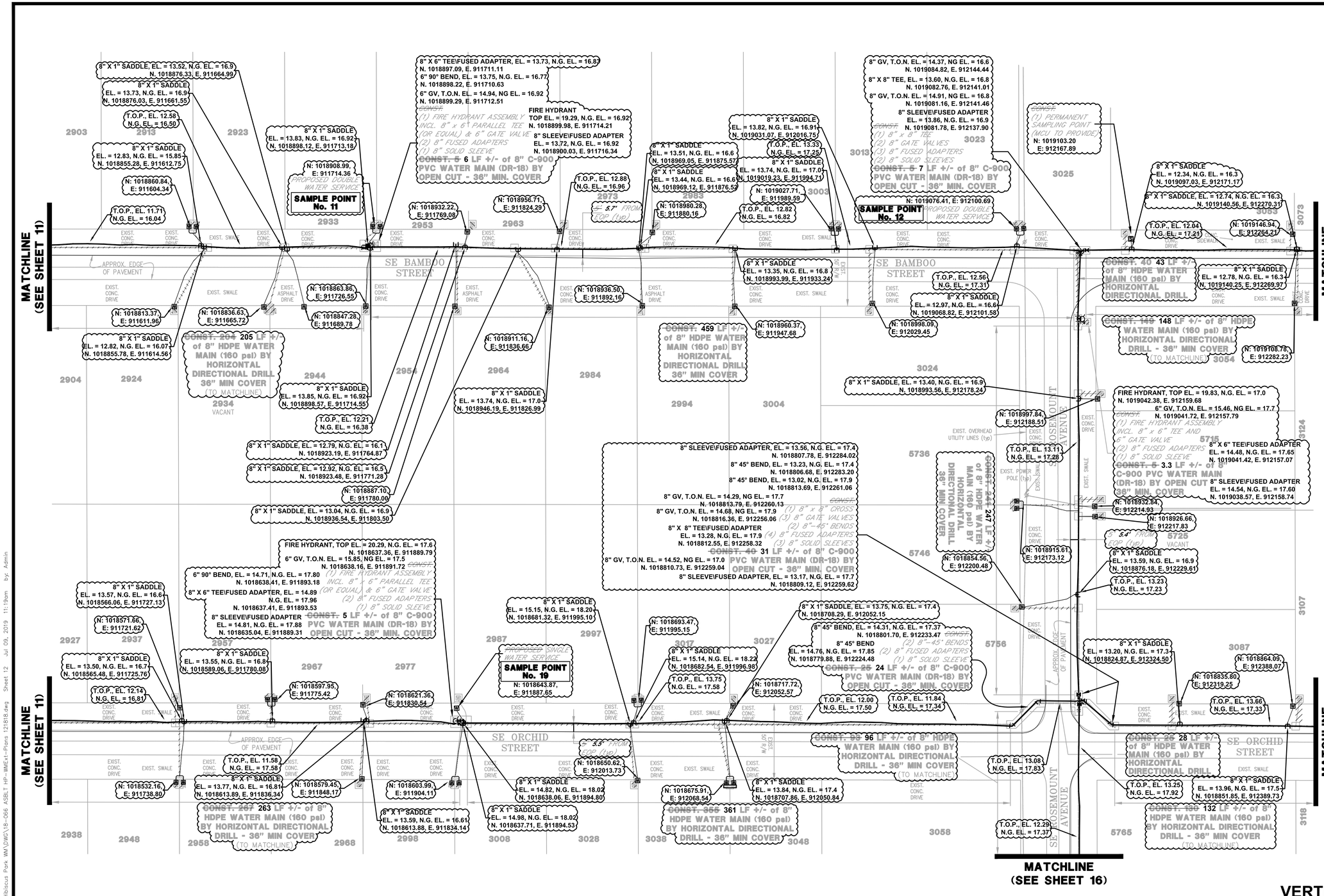
FLORIDA REGISTRATION NUMBER:

75472

"SEAL"

SHEET **11** OF **28**

Drawing name: D:\Civil 3D Projects\18-066 Hibiscus Park WM\DWG\18-066 ASBLT HP-WMExt-Plans 121818.dwg Sheet 11 Jul 26, 2019 3:00pm by: Admin



LEGEND

- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE
- FIRE HYDRANT
- BLOW-OFF
- SAMPLE POINT
- GATE VALVE
- EXISTING GATE VALVE
- EXISTING WATER MAIN
- EXISTING FORCE MAIN
- EXISTING IQ MAIN

NOTE:

1. CONTRACTOR SHALL PROVIDE AS-BUILT CONFLICT INFORMATION (TOP AND BOTTOM OF PIPE ELEVATIONS) ON RECORD DRAWINGS FOR ALL CONFLICTS SHOWN.
2. ALL BURIED AND AERIAL UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND ARE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL COORDINATE WITH MCU PRIOR TO MAKING ANY FIELD ADJUSTMENTS TO ACCOMMODATE BURIED UTILITIES, WHERE IN CONFLICT WITH DESIGN WATER MAIN LOCATION.

VERTICAL DATUM = NAVD88

REVISIONS	DATE	BY

MARTIN COUNTY UTILITIES
2378 S.E. OCEAN BOULEVARD
STUART, FLORIDA 34995-9000
Phone: (772) 221-1442 Fax: (772) 221-1447

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Hibiscus Park

MARTIN COUNTY, FL

WATER MAIN EXTENSION

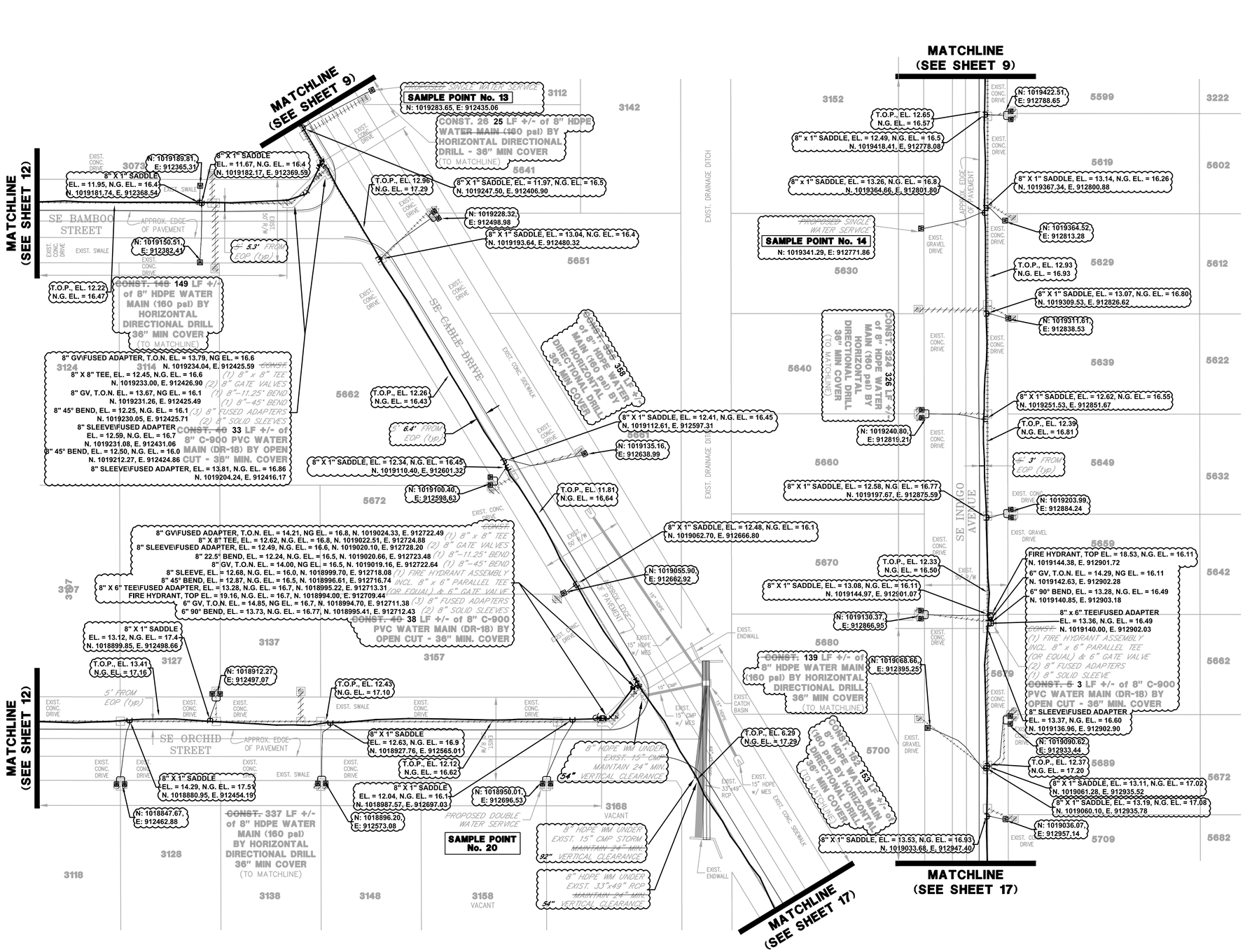
WATER MAIN EXTENSION PLANS

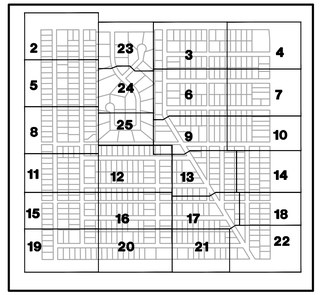
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SCALE:	1" = 30'
DESIGN:	SJV
DRAWN:	SJV
CHECKED:	J.A.C.
DWG:	HP-WMExt-Plans.dwg

DESIGN ENGINEER:
JEREMY A. COVEY, P.E.
FLORIDA REGISTRATION NUMBER:
75472
"SEAL"

SHEET **12** OF **28**

Drawing name: D:\Civil 3D Projects\18-066 Hibiscus Park WA\DWG\18-066 ASBLT HP-WMExt-Plans 121818.dwg Sheet 12 Jul 09, 2019 11:19am by: Admin





KEY MAP

0 30 60

SCALE IN FEET

LEGEND

- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE
- FIRE HYDRANT
- BLOW–OFF
- SAMPLE POINT
- GATE VALVE
- EXISTING GATE VALVE
- EXISTING WATER MAIN
- EXISTING FORCE MAIN
- EXISTING IQ MAIN

NOTE:

1. CONTRACTOR SHALL PROVIDE AS–BUILT CONFLICT INFORMATION (TOP AND BOTTOM OF PIPE ELEVATIONS) ON RECORD DRAWINGS FOR ALL CONFLICTS SHOWN.
2. ALL BURIED AND AERIAL UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND ARE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL COORDINATE WITH MCU PRIOR TO MAKING ANY FIELD ADJUSTMENTS TO ACCOMMODATE BURIED UTILITIES, WHERE IN CONFLICT WITH DESIGN WATER MAIN LOCATION.

VERTICAL DATUM = NAVD88

REVISIONS	DATE	BY

MARTIN COUNTY UTILITIES
2378 S.E. OCEAN BOULEVARD
STUART, FLORIDA 34995-9000
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Hibiscus Park

MARTIN COUNTY, FL

WATER MAIN EXTENSION

WATER MAIN EXTENSION PLANS

DATE:	JUNE 2017
SCALE:	1" = 30'
DESIGN:	SJV
DRAWN:	SJV
CHECKED:	J.A.C.
DWG:	HP–WMExt–Plans.dwg

DESIGN ENGINEER:

JEREMY A. COVEY, P.E.

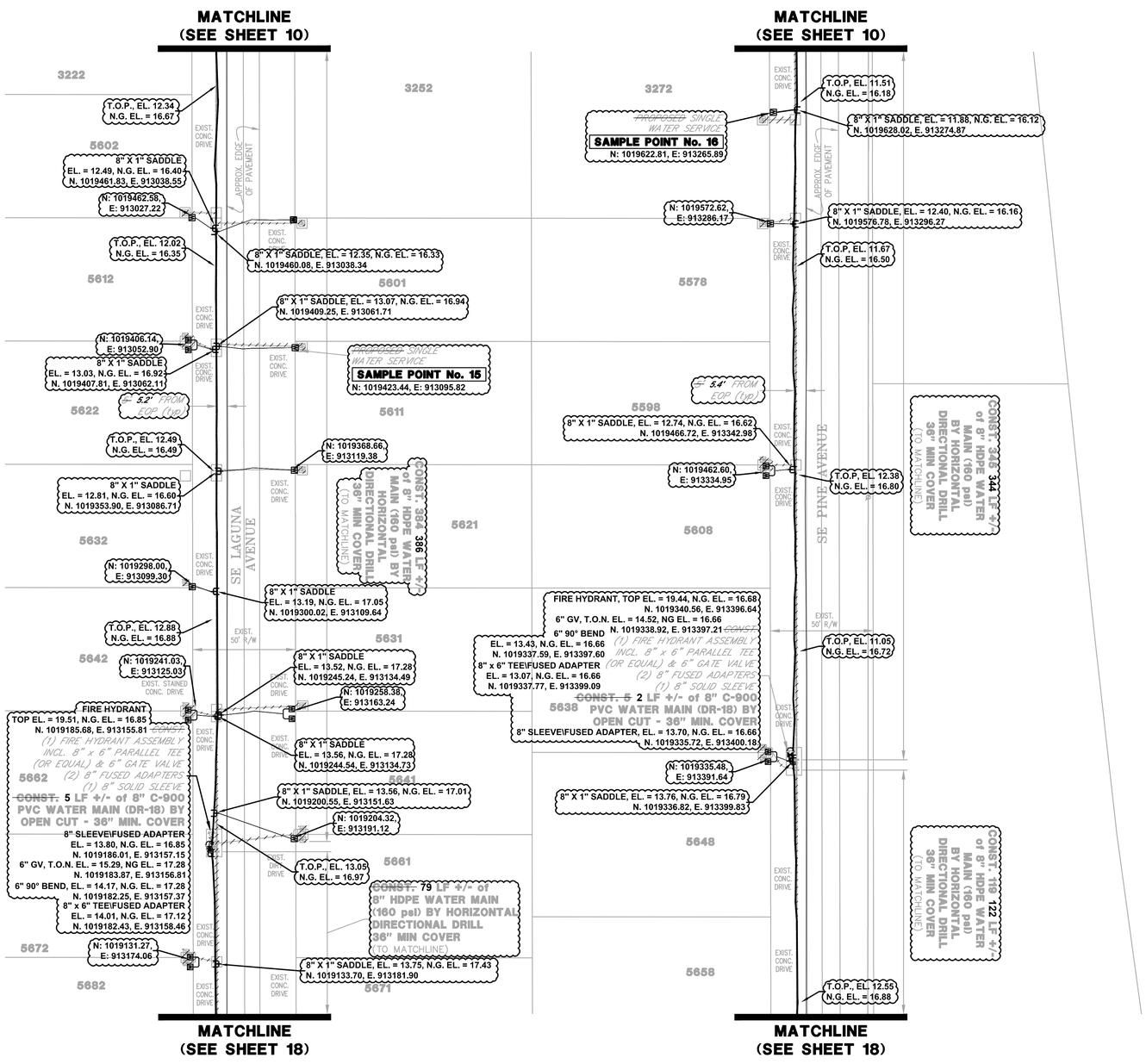
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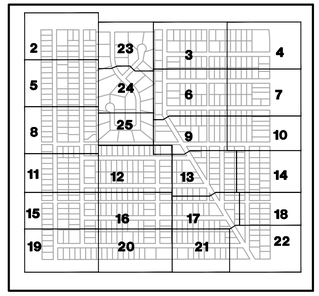
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"SEAL"

SHEET **13** OF **28**

Drawing name: D:\Civil 3D Projects\18-066 Hibiscus Park WM\DWG\18-066 ASBLT HP-WMExt-Plans 121818.dwg Sheet 13 Jul 09, 2019 11:19am by: Admin





KEY MAP



LEGEND

- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE
- FIRE HYDRANT
- BLOW–OFF
- SAMPLE POINT
- GATE VALVE
- EXISTING GATE VALVE
- EXISTING WATER MAIN
- EXISTING FORCE MAIN
- EXISTING IQ MAIN

NOTE:

1. CONTRACTOR SHALL PROVIDE AS–BUILT CONFLICT INFORMATION (TOP AND BOTTOM OF PIPE ELEVATIONS) ON RECORD DRAWINGS FOR ALL CONFLICTS SHOWN.
2. ALL BURIED AND AERIAL UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND ARE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL COORDINATE WITH MCU PRIOR TO MAKING ANY FIELD ADJUSTMENTS TO ACCOMMODATE BURIED UTILITIES, WHERE IN CONFLICT WITH DESIGN WATER MAIN LOCATION.

VERTICAL DATUM = NAVD88

REVISIONS	DATE	BY
REVISED WATER SERVICE LOCATION AT 5632, SE LAGUNA AVE	8–31–18	SJV

MARTIN COUNTY UTILITIES
2378 S.E. OCEAN BOULEVARD
STUART, FLORIDA 34995-9000
Phone: (772) 221-1442 Fax: (772) 221-1447

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Hibiscus Park

MARTIN COUNTY, FL

WATER MAIN EXTENSION

WATER MAIN EXTENSION PLANS

DATE:	JUNE 2017
SCALE:	1" = 30'
DESIGN:	SJV
DRAWN:	SJV
CHECKED:	J.A.C.
DWG:	HP–WMExt–Plans.dwg

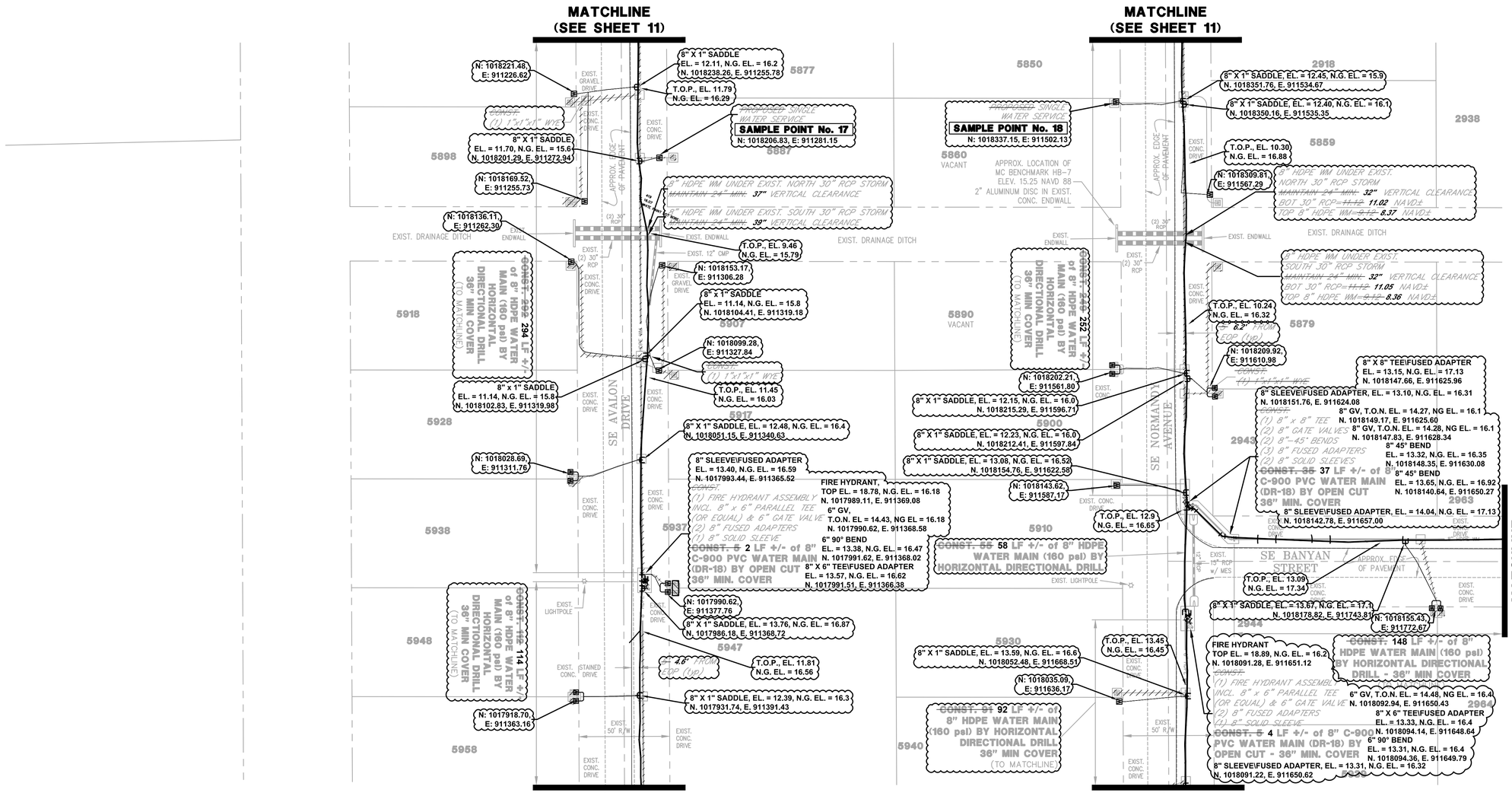
DESIGN ENGINEER:
JEREMY A. COVEY, P.E.

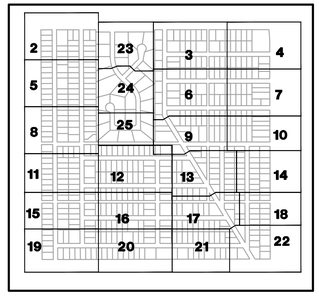
FLORIDA REGISTRATION NUMBER:
75472

"SEAL"

SHEET
14
OF
28

Drawing name: D:\Civil 3D Projects\18–066 Hibiscus Park WA\DWG\18–066 ASBLT HP–WMExt–Plans 121818.dwg Sheet 14 Jul 09, 2019 11:20am by: Admin





KEY MAP



0 30 60

SCALE IN FEET

LEGEND

- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE
- FIRE HYDRANT
- BLOW-OFF
- SAMPLE POINT
- GATE VALVE
- EXISTING GATE VALVE
- EXISTING WATER MAIN
- EXISTING FORCE MAIN
- EXISTING IQ MAIN

NOTE:

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VERTICAL DATUM = NAVD88

REVISIONS	DATE	BY

MARTIN COUNTY UTILITIES
2378 S.E. OCEAN BOULEVARD
STUART, FLORIDA 34995-9000
Phone: (772) 221-1442 Fax: (772) 221-1447

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Hibiscus Park

MARTIN COUNTY, FL

WATER MAIN EXTENSION

WATER MAIN EXTENSION PLANS

DATE:	JUNE 2017
SCALE:	1" = 30'
DESIGN:	SJV
DRAWN:	SJV
CHECKED:	J.A.C.
DWG:	HP-WMExt-Plans.dwg

DESIGN ENGINEER:

JEREMY A. COVEY, P.E.

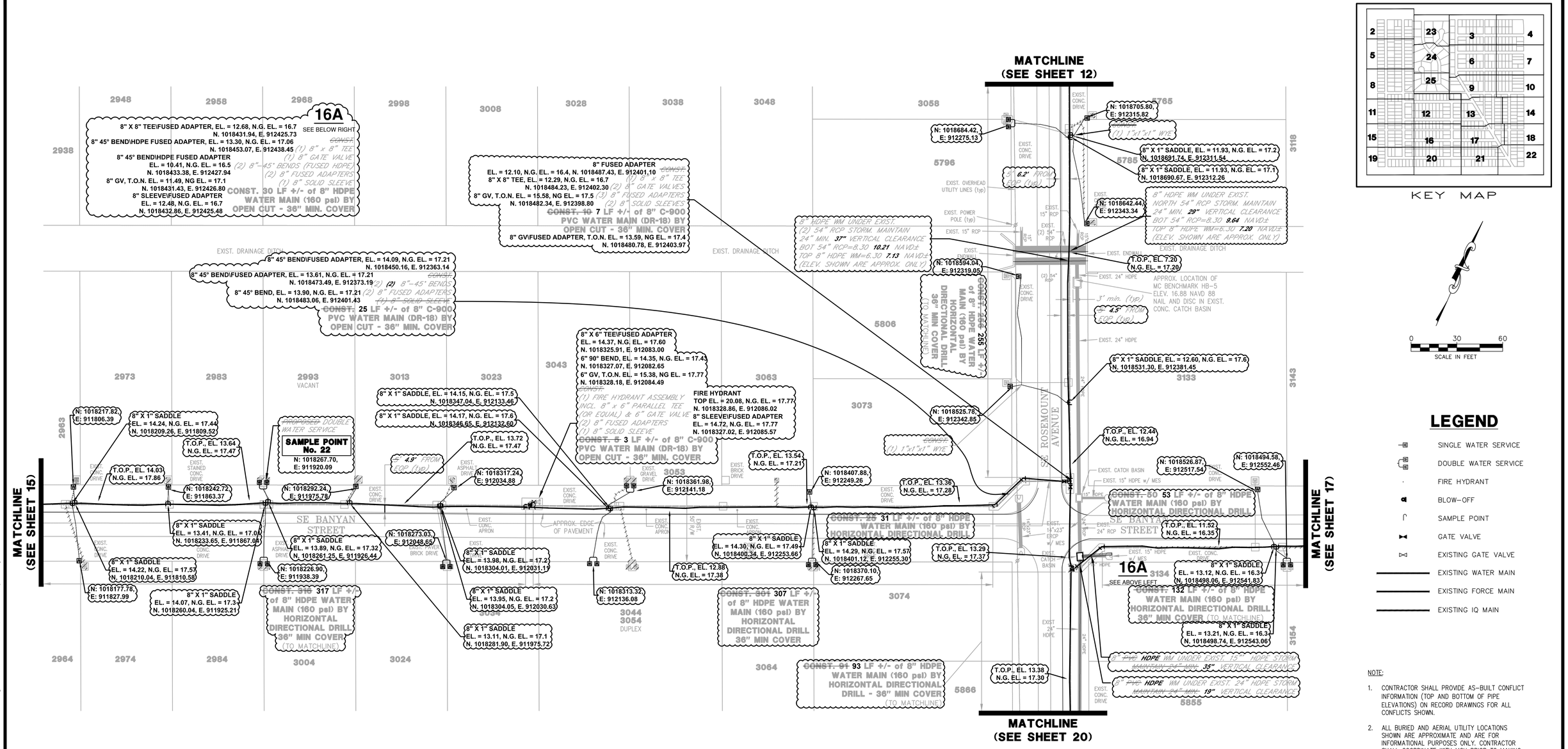
FLORIDA REGISTRATION NUMBER:

75472

"SEAL"

SHEET **15** OF **28**

Drawing name: D:\Civil 3D Projects\18-066 Hibiscus Park WM\DWG\18-066 ASBLT HP-WMExt-Plans 121818.dwg Sheet 15 Jul 09, 2019 11:20am by: Admin



KEY MAP

0 30 60
SCALE IN FEET

LEGEND

- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE
- FIRE HYDRANT
- BLOW-OFF
- SAMPLE POINT
- GATE VALVE
- EXISTING GATE VALVE
- EXISTING WATER MAIN
- EXISTING FORCE MAIN
- EXISTING IQ MAIN

NOTE:

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VERTICAL DATUM = NAVD88

REVISIONS	DATE	BY
REVISED WATER SERVICE LOCATION AT 3063, SE BANYAN ST	8-31-18	SJV

MARTIN COUNTY UTILITIES
2378 S.E. OCEAN BOULEVARD
STUART, FLORIDA 34995-9000
Phone: (772) 221-1442 Fax: (772) 221-1447

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Hibiscus Park

MARTIN COUNTY, FL

WATER MAIN EXTENSION

WATER MAIN EXTENSION PLANS

DATE:	JUNE 2017
SCALE:	1" = 30'
DESIGN:	SJV
DRAWN:	SJV
CHECKED:	J.A.C.
DWG:	HP-WMExt-Plans.dwg

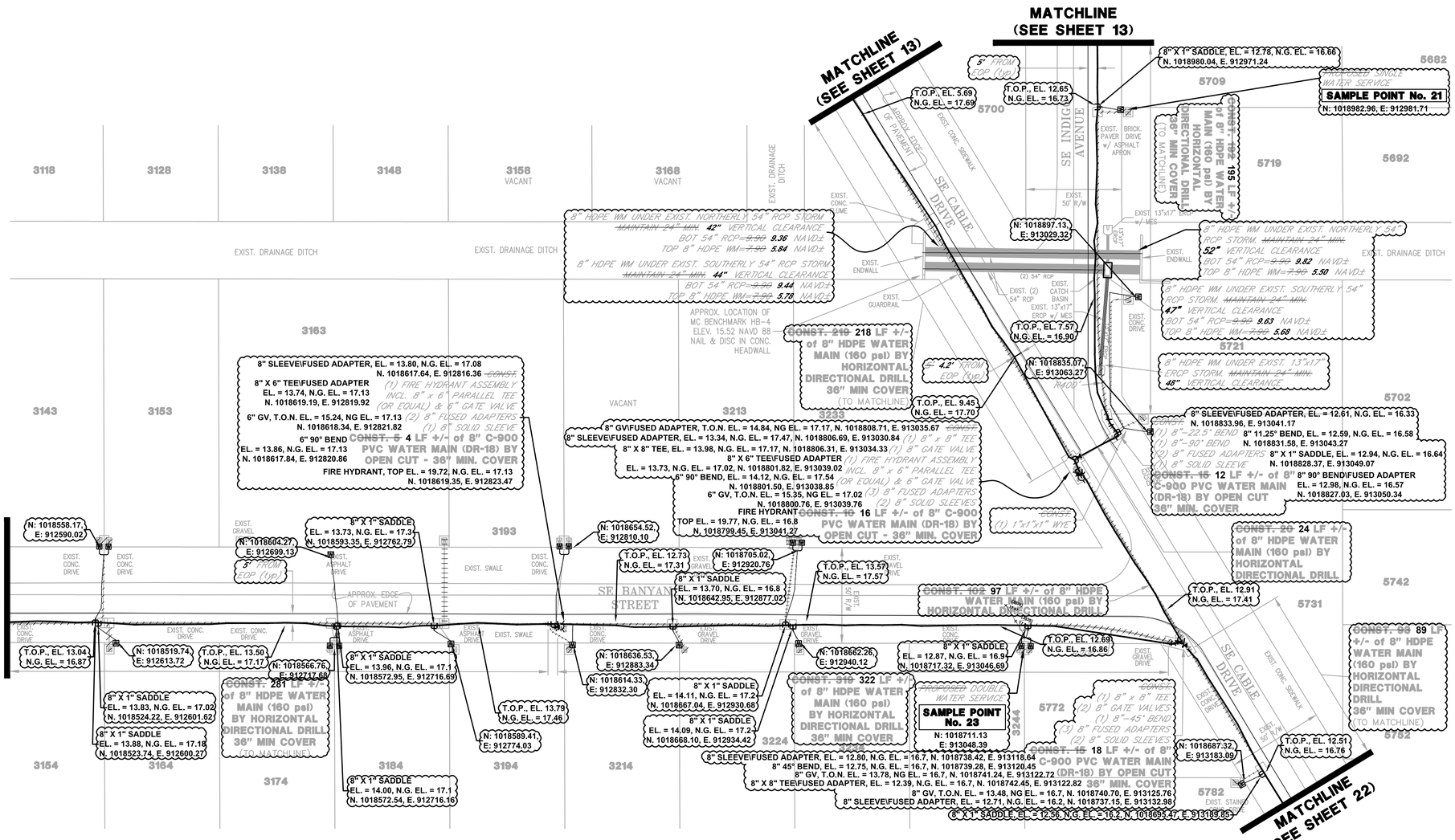
DESIGN ENGINEER:
JEREMY A. COVEY, P.E.

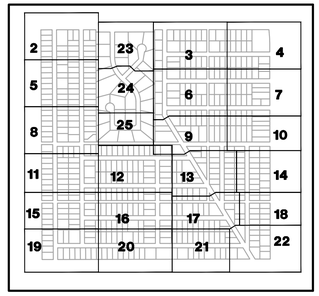
FLORIDA REGISTRATION NUMBER:
75472

"SEAL"

SHEET **16** OF **28**

Drawing name: D:\Civil 3D Projects\18-066 Hibiscus Park WM\DWG\18-066 ASBLT HP-WMExt-Plans 121818.dwg Sheet 16 Jul 26, 2019 2:50pm by: Admin





KEY MAP

LEGEND

- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE
- FIRE HYDRANT
- BLOW-OFF
- SAMPLE POINT
- GATE VALVE
- EXISTING GATE VALVE
- EXISTING WATER MAIN
- EXISTING FORCE MAIN
- EXISTING IQ MAIN

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VERTICAL DATUM = NAVD88

REVISIONS	DATE	BY

MARTIN COUNTY UTILITIES
2378 S.E. OCEAN BOULEVARD
STUART, FLORIDA 34995-9000
Phone: (772) 221-1442 Fax: (772) 221-1447

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Hibiscus Park

MARTIN COUNTY, FL

WATER MAIN EXTENSION

WATER MAIN EXTENSION PLANS

DATE:	JUNE 2017
SCALE:	1" = 30'
DESIGN:	SJV
DRAWN:	SJV
CHECKED:	J.A.C.
DWG:	HP-WMExt-Plans.dwg

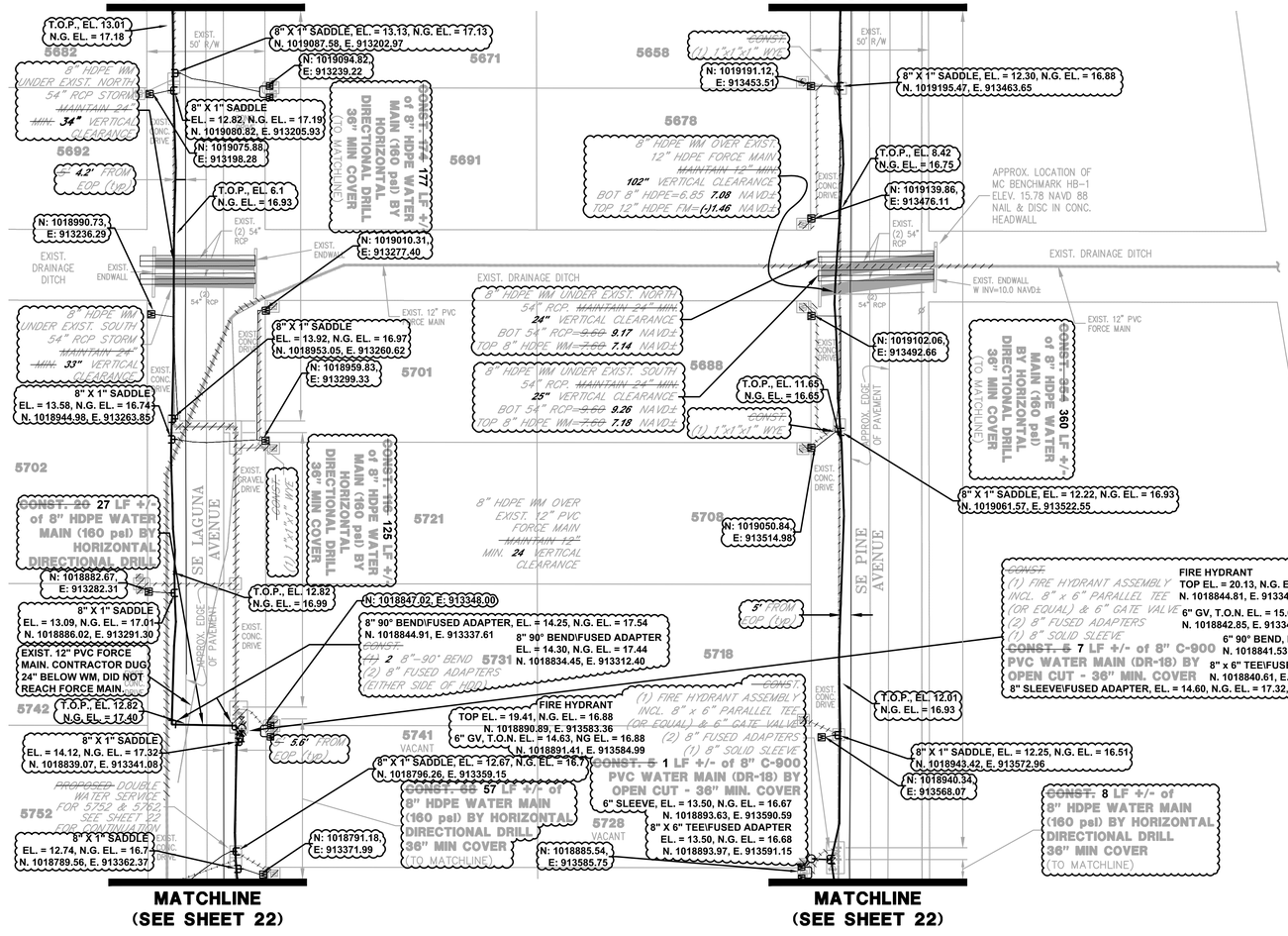
DESIGN ENGINEER:
JEREMY A. COVEY, P.E.

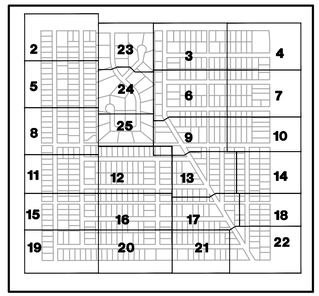
FLORIDA REGISTRATION NUMBER:
75472

"SEAL"

SHEET **17** OF **28**

Drawing name: D:\Civil 3D Projects\18-066 Hibiscus Park WM\DWG\18-066 ASBLT HP-WMExt-Plans 121818.dwg Sheet 17 Jul 09, 2019 11:20am by: Admin





KEY MAP

0 30 60

SCALE IN FEET

LEGEND

- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE
- FIRE HYDRANT
- BLOW-OFF
- SAMPLE POINT
- GATE VALVE
- EXISTING GATE VALVE
- EXISTING WATER MAIN
- EXISTING FORCE MAIN
- EXISTING IQ MAIN

NOTE:

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VERTICAL DATUM = NAVD88

REVISIONS	DATE	BY

MARTIN COUNTY UTILITIES
2378 S.E. OCEAN BOULEVARD
STUART, FLORIDA 34995-9000
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Hibiscus Park

MARTIN COUNTY, FL

WATER MAIN EXTENSION

WATER MAIN EXTENSION PLANS

DATE:	JUNE 2017
SCALE:	1" = 30'
DESIGN:	SJV
DRAWN:	SJV
CHECKED:	J.A.C.
DWG:	HP-WMExt-Plans.dwg

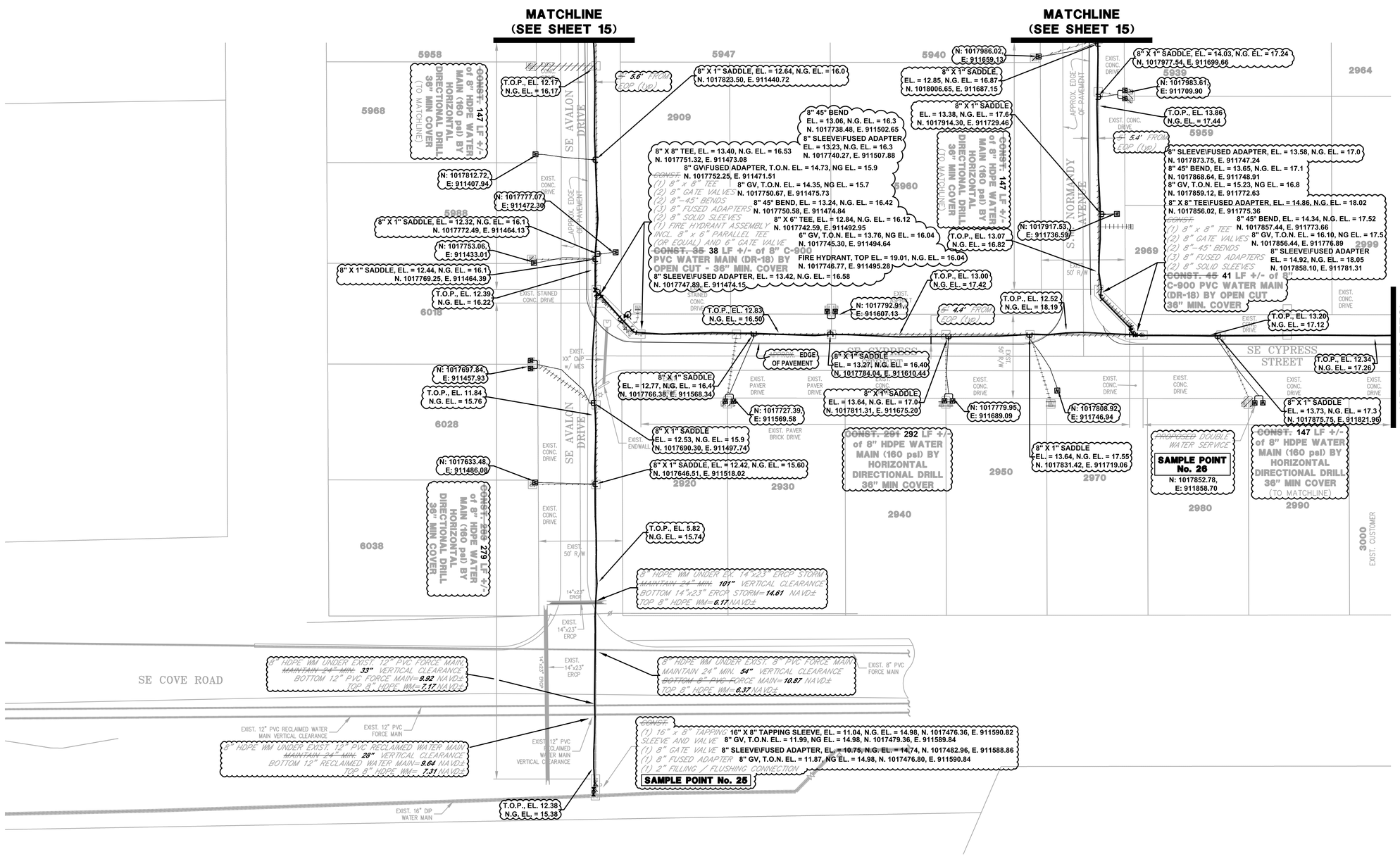
DESIGN ENGINEER:
JEREMY A. COVEY, P.E.

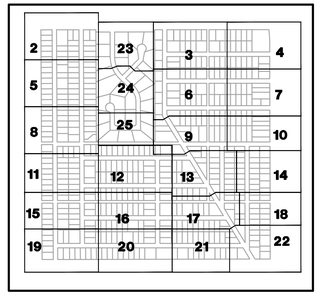
FLORIDA REGISTRATION NUMBER:
75472

"SEAL"

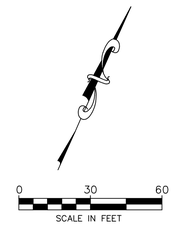
SHEET
18
OF
28

Drawing name: D:\Civil 3D Projects\18-066 Hibiscus Park WW\DWG\18-066 ASBLT HP-WMExt-Plans 121818.dwg Sheet 18 Jul 09, 2019 11:20am by: Admin





KEY MAP



LEGEND

- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE
- FIRE HYDRANT
- BLOW–OFF
- SAMPLE POINT
- GATE VALVE
- EXISTING GATE VALVE
- EXISTING WATER MAIN
- EXISTING FORCE MAIN
- EXISTING IQ MAIN

NOTE:

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VERTICAL DATUM = NAVD88

REVISIONS	DATE	BY
REVISED WATER SERVICE LOCATION AT 2969, SE CYPRESS ST	8–31–18	SJV

MARTIN COUNTY UTILITIES
2378 S.E. OCEAN BOULEVARD
STUART, FLORIDA 34995-9000
Phone: (772) 221-1442 Fax: (772) 221-1447

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Hibiscus Park

MARTIN COUNTY, FL

WATER MAIN EXTENSION

WATER MAIN EXTENSION PLANS

DATE:	JUNE 2017
SCALE:	1" = 30'
DESIGN:	SJV
DRAWN:	SJV
CHECKED:	J.A.C.
DWG:	HP–WMExt–Plans.dwg

DESIGN ENGINEER:

JEREMY A. COVEY, P.E.

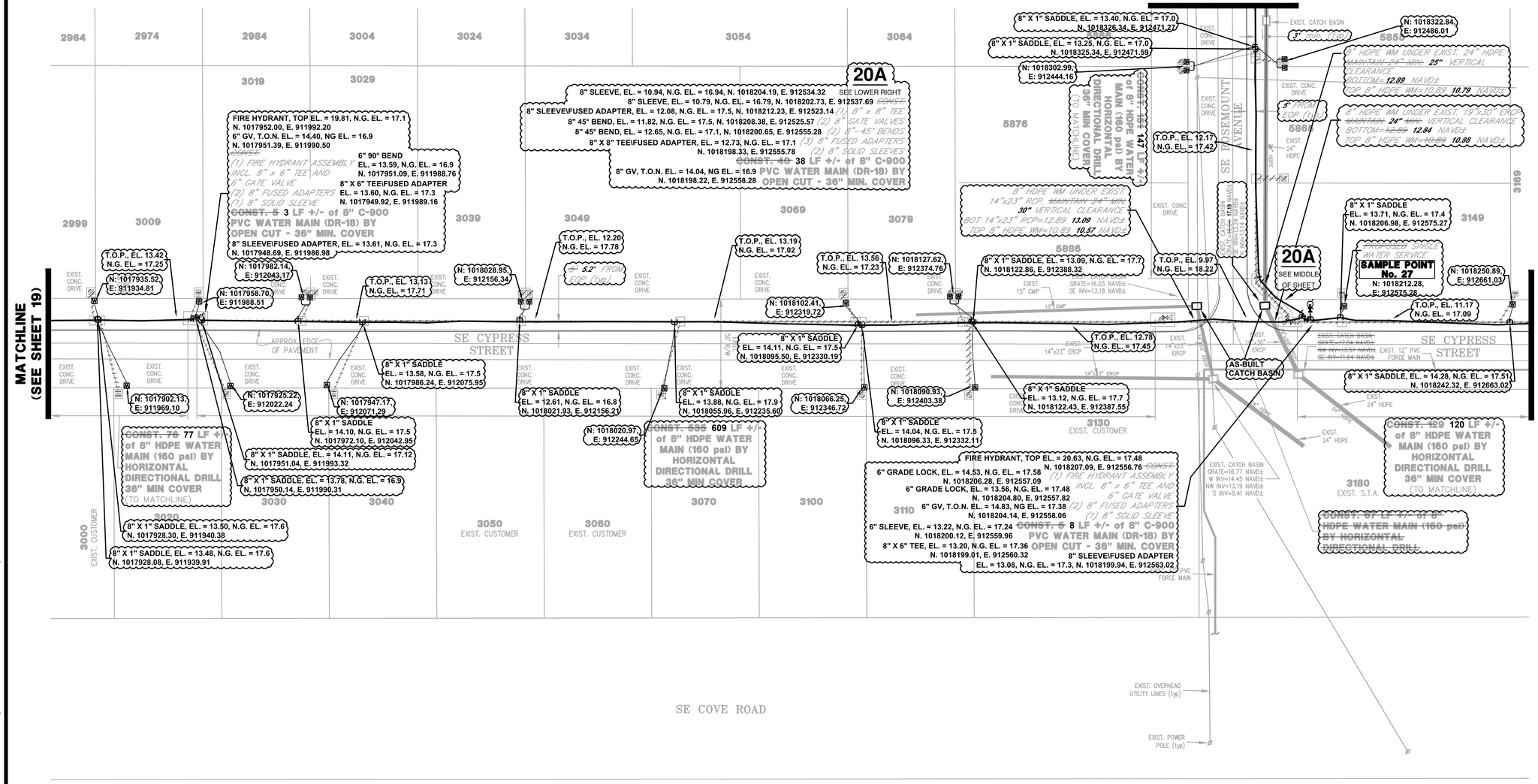
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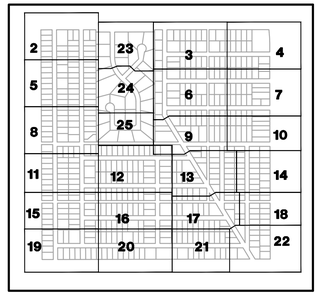
75472

"SEAL"

SHEET **19** OF **28**

Drawing name: D:\Civil 3D Projects\18-066 Hibiscus Park WM\DWG\18-066 ASBLT HP-WMExt-Plans 121818.dwg Sheet 19 Jul 09, 2019 11:20am by: Admin





KEY MAP

0 30 60
SCALE IN FEET

LEGEND

- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE
- FIRE HYDRANT
- BLOW-OFF
- SAMPLE POINT
- GATE VALVE
- EXISTING GATE VALVE
- EXISTING WATER MAIN
- EXISTING FORCE MAIN
- EXISTING IQ MAIN

NOTE:

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VERTICAL DATUM = NAVD88

REVISIONS	DATE	BY
REVISED WATER SERVICE LOCATION AT 3169, SE CYPRESS ST	8-31-18	SJV

MARTIN COUNTY UTILITIES
2378 S.E. OCEAN BOULEVARD
STUART, FLORIDA 34995-9000
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Hibiscus Park

MARTIN COUNTY, FL

WATER MAIN EXTENSION

WATER MAIN EXTENSION PLANS

DATE:	JUNE 2017
SCALE:	1" = 30'
DESIGN:	SJV
DRAWN:	SJV
CHECKED:	J.A.C.
DWG:	HP-WMExt-Plans.dwg

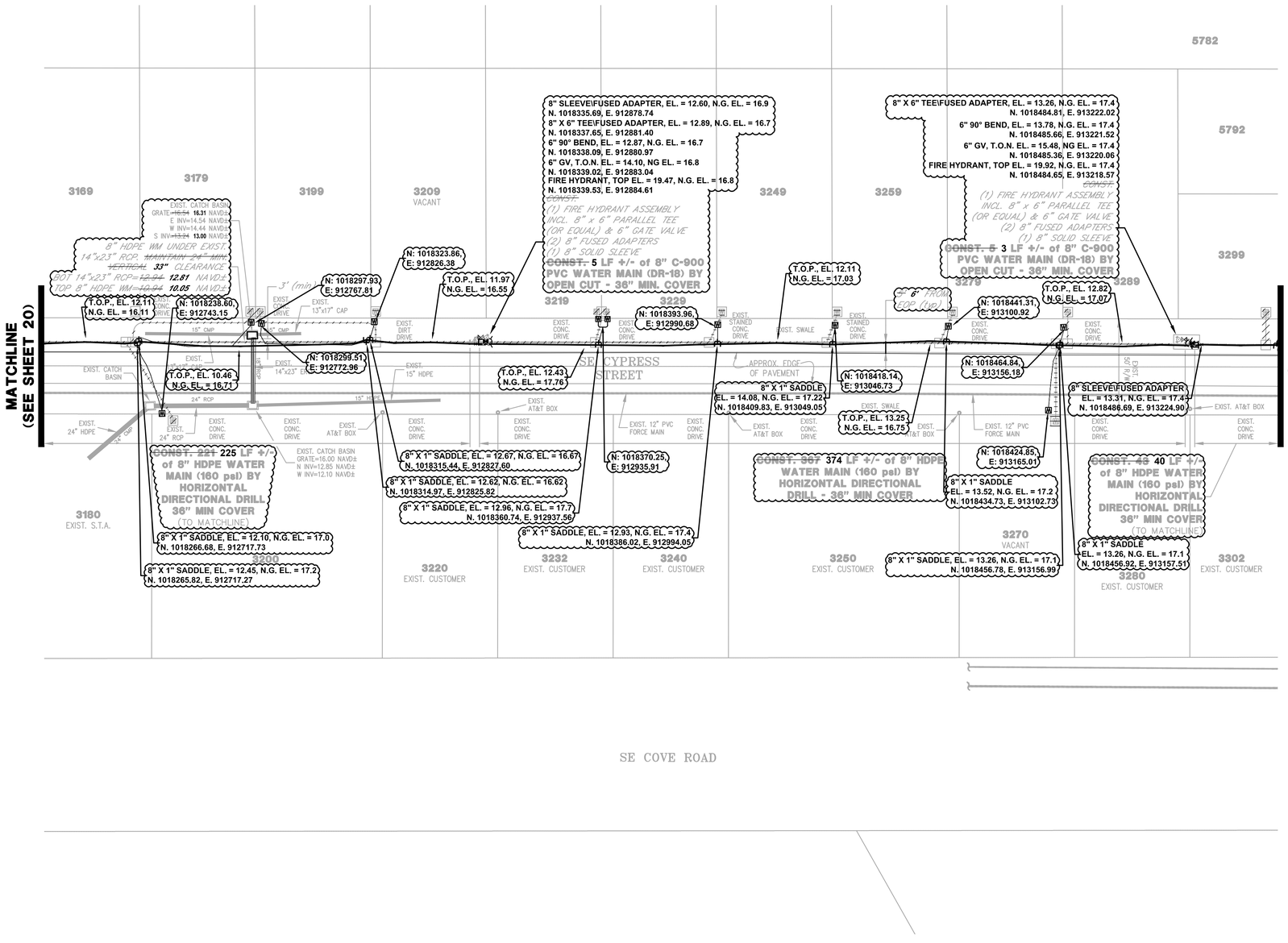
DESIGN ENGINEER:
JEREMY A. COVEY, P.E.

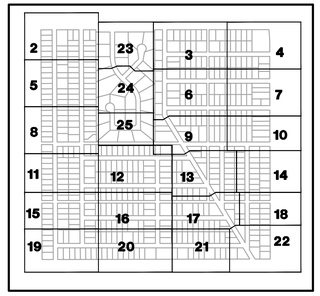
FLORIDA REGISTRATION NUMBER:
75472

"SEAL"

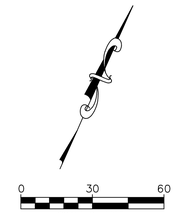
SHEET **20** OF **28**

Drawing name: D:\Civil 3D Projects\18-066 Hibiscus Park WA\DWG\18-066 ASBLT HP-WMExt-Plans 121818.dwg Sheet 20 Jul 22, 2019 8:56am by: Admin





KEY MAP



LEGEND

- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE
- FIRE HYDRANT
- BLOW–OFF
- SAMPLE POINT
- GATE VALVE
- EXISTING GATE VALVE
- EXISTING WATER MAIN
- EXISTING FORCE MAIN
- EXISTING IQ MAIN

NOTE:

1. CONTRACTOR SHALL PROVIDE AS–BUILT CONFLICT INFORMATION (TOP AND BOTTOM OF PIPE ELEVATIONS) ON RECORD DRAWINGS FOR ALL CONFLICTS SHOWN.
2. ALL BURIED AND AERIAL UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND ARE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL COORDINATE WITH MCU PRIOR TO MAKING ANY FIELD ADJUSTMENTS TO ACCOMMODATE BURIED UTILITIES, WHERE IN CONFLICT WITH DESIGN WATER MAIN LOCATION.

VERTICAL DATUM = NAVD88

REVISIONS	DATE	BY
REVISED WATER SERVICE LOCATION AT 3169, SE CYPRESS ST	8–31–18	SJV

MARTIN COUNTY UTILITIES
2378 S.E. OCEAN BOULEVARD
STUART, FLORIDA 34995-9000
Phone: (772) 221-1442 Fax: (772) 221-1447

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Hibiscus Park

MARTIN COUNTY, FL

WATER MAIN EXTENSION

WATER MAIN EXTENSION PLANS

DATE:	JUNE 2017
SCALE:	1" = 30'
DESIGN:	SJV
DRAWN:	SJV
CHECKED:	J.A.C.
DWG:	HP–WMExt–Plans.dwg

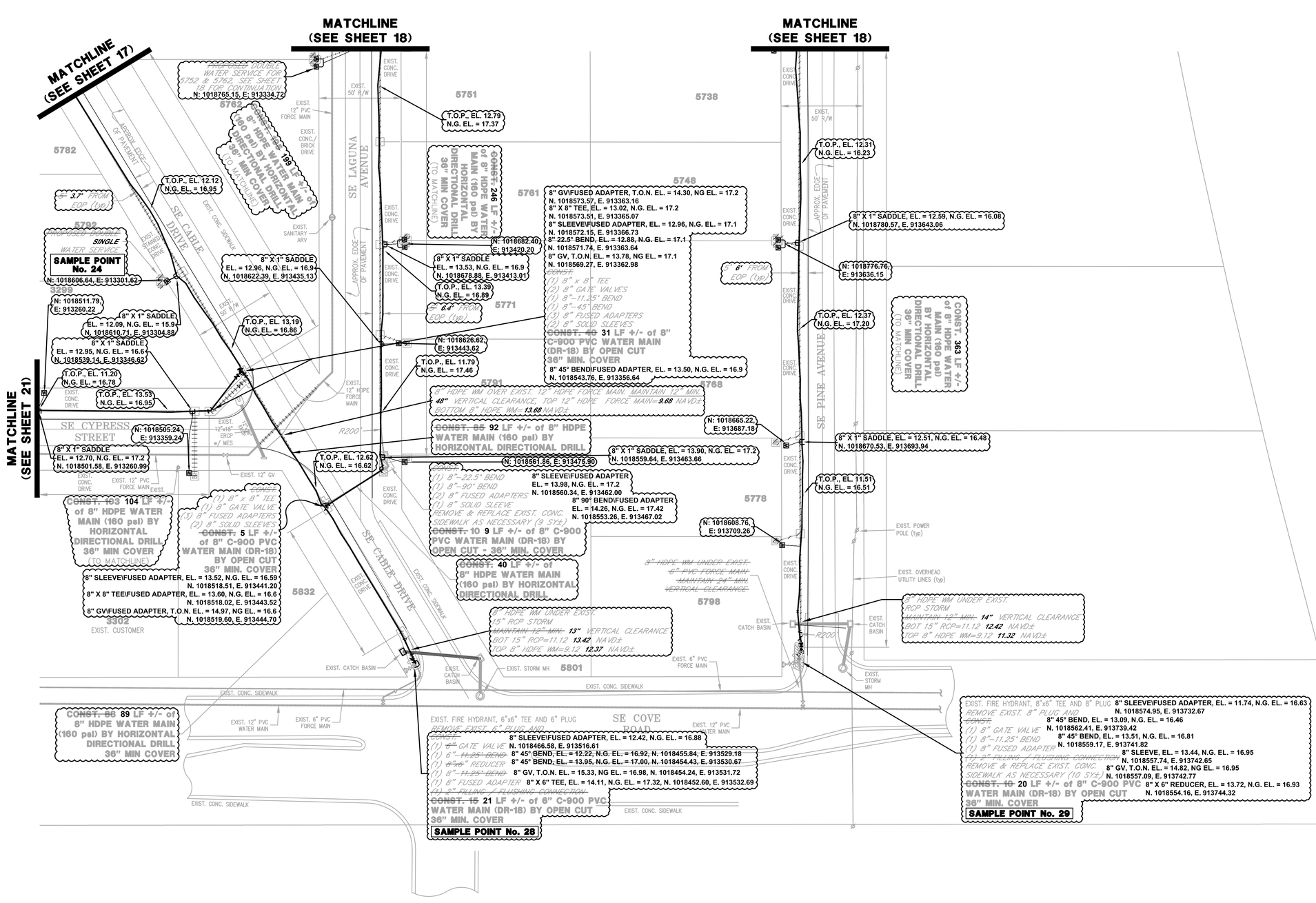
DESIGN ENGINEER:
JEREMY A. COVEY, P.E.

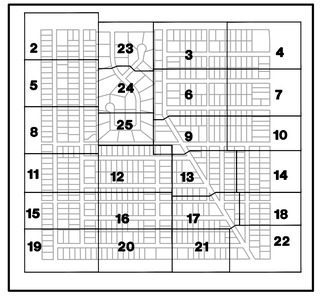
FLORIDA REGISTRATION NUMBER:
75472

"SEAL"

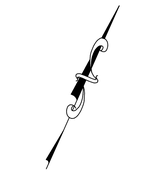
SHEET **21** OF **28**

Drawing name: D:\Civil 3D Projects\18-066 Hibiscus Park WM\DWG\18-066 ASBLT HP-WMExt-Plans 121818.dwg Sheet 21 Jul 09, 2019 11:21am by: Admin





KEY MAP



0 30 60

SCALE IN FEET

LEGEND

- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE
- FIRE HYDRANT
- BLOW–OFF
- SAMPLE POINT
- GATE VALVE
- EXISTING GATE VALVE
- EXISTING WATER MAIN
- EXISTING FORCE MAIN
- EXISTING IQ MAIN

NOTE:

1. CONTRACTOR SHALL PROVIDE AS–BUILT CONFLICT INFORMATION (TOP AND BOTTOM OF PIPE ELEVATIONS) ON RECORD DRAWINGS FOR ALL CONFLICTS SHOWN.
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VERTICAL DATUM = NAVD88

REVISIONS	DATE	BY

MARTIN COUNTY UTILITIES
2378 S.E. OCEAN BOULEVARD
STUART, FLORIDA 34995-9000
Phone: (772) 221-1442 Fax: (772) 221-1447

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Hibiscus Park

MARTIN COUNTY, FL

WATER MAIN EXTENSION

WATER MAIN EXTENSION PLANS

DATE:	JUNE 2017
SCALE:	1" = 30'
DESIGN:	SJV
DRAWN:	SJV
CHECKED:	J.A.C.
DWG:	HP–WMExt–Plans.dwg

DESIGN ENGINEER:

JEREMY A. COVEY, P.E.

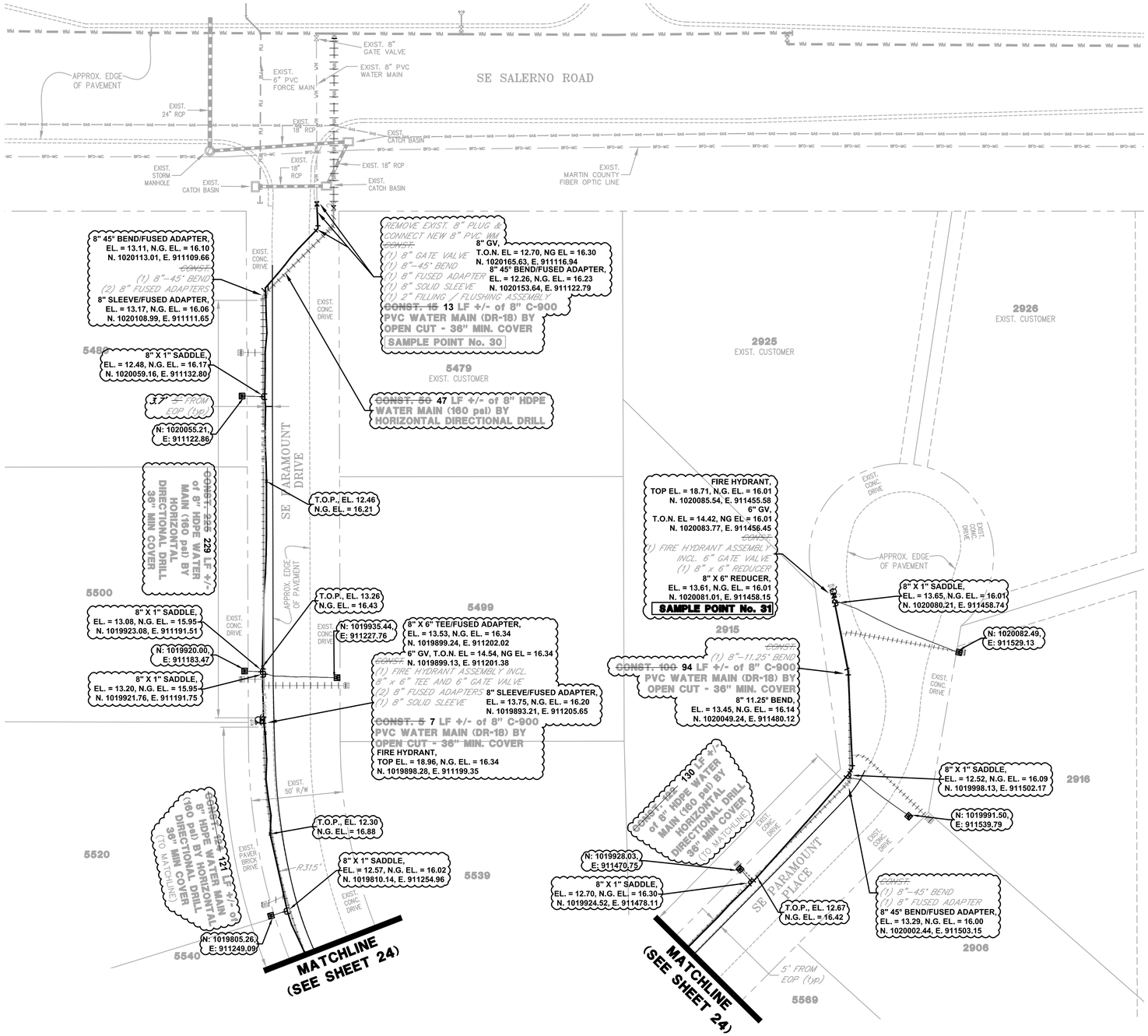
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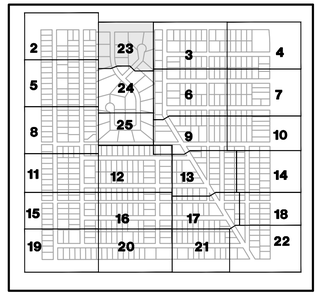
75472

"SEAL"

SHEET **22** OF **28**

Drawing name: D:\Civil 3D Projects\18-066 Hibiscus Park WM\DWG\18-066 ASBLT HP-WMExt-Plans 121818.dwg Sheet 22 Jul 26, 2019 2:50pm by: Admin





KEY MAP



LEGEND

- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE
- FIRE HYDRANT
- BLOW-OFF
- SAMPLE POINT
- GATE VALVE
- EXISTING GATE VALVE
- EXISTING WATER MAIN
- EXISTING FORCE MAIN
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VERTICAL DATUM = NAVD88

REVISIONS	DATE	BY

MARTIN COUNTY UTILITIES
2378 S.E. OCEAN BOULEVARD
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Phone: (772) 221-1442 Fax: (772) 221-1447

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Hibiscus Park

MARTIN COUNTY, FL

WATER MAIN EXTENSION

WATER MAIN EXTENSION PLANS

DATE:	JUNE 2017
SCALE:	1" = 30'
DESIGN:	SJV
DRAWN:	SJV
CHECKED:	J.A.C.
DWG:	HP-WMExt-Plans.dwg

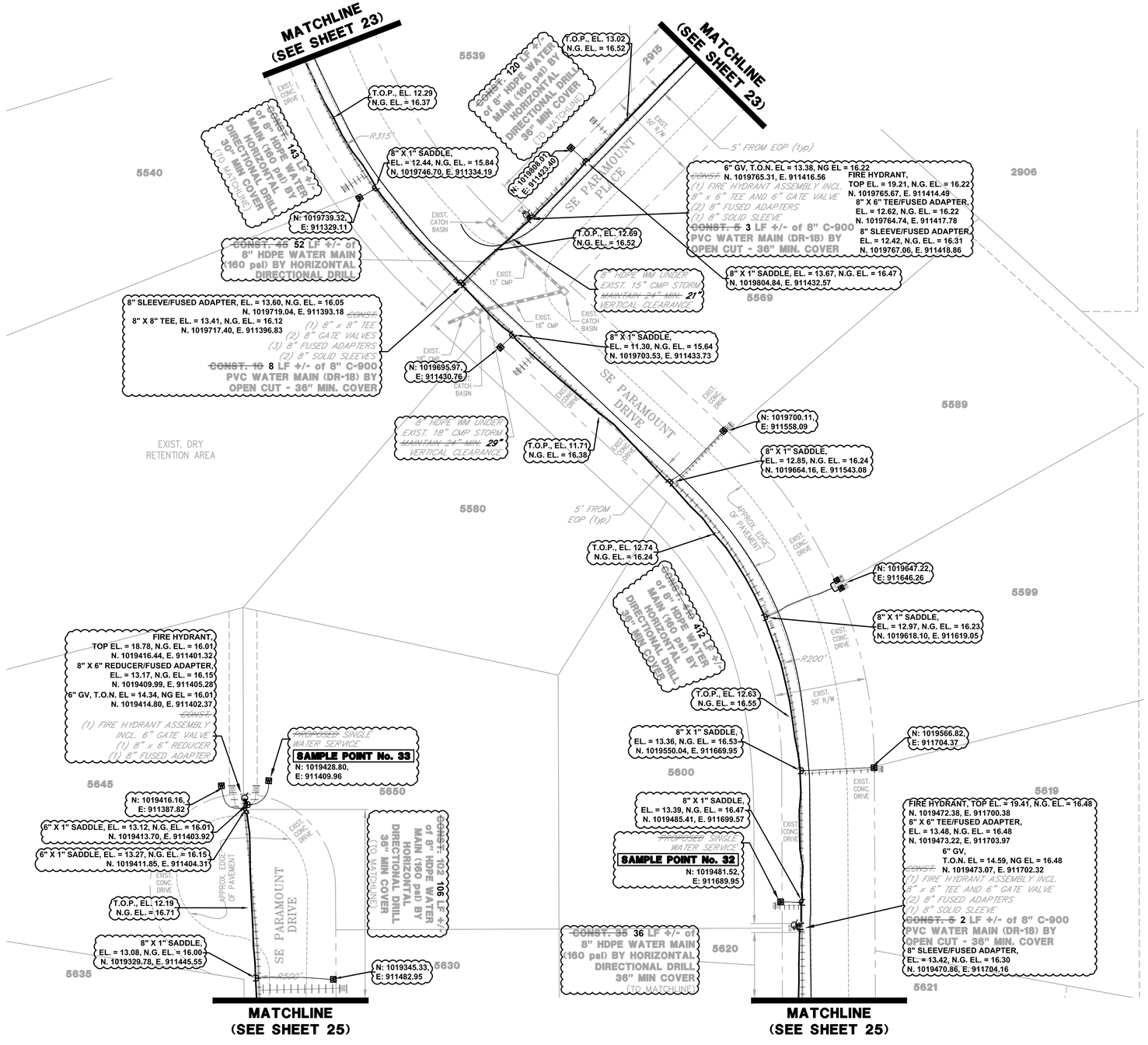
DESIGN ENGINEER:
JEREMY A. COVEY, P.E.

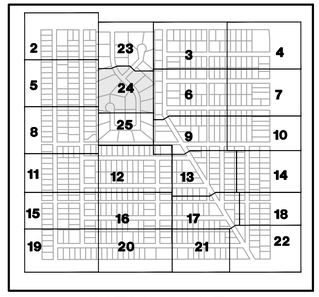
FLORIDA REGISTRATION NUMBER:
75472

"SEAL"

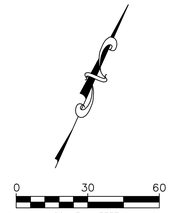
SHEET **23** OF **28**

Drawing name: D:\Civil 3D Projects\18-066 Hibiscus Park WM\DWG\18-066 ASBLT HP-WMExt-Plans 121818.dwg Sheet 23 Feb 20, 2019 10:32am by: Admin





KEY MAP



LEGEND

- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE
- FIRE HYDRANT
- BLOW-OFF
- SAMPLE POINT
- GATE VALVE
- EXISTING GATE VALVE
- EXISTING WATER MAIN
- EXISTING FORCE MAIN
- EXISTING IQ MAIN

NOTE:

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VERTICAL DATUM = NAVD88

REVISIONS	DATE	BY

MARTIN COUNTY UTILITIES
2378 S.E. OCEAN BOULEVARD
STUART, FLORIDA 34995-9000
Phone: (772) 221-1442 Fax: (772) 221-1447

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Hibiscus Park

MARTIN COUNTY, FL

WATER MAIN EXTENSION

WATER MAIN EXTENSION PLANS

DATE:	JUNE 2017
SCALE:	1" = 30'
DESIGN:	SJV
DRAWN:	SJV
CHECKED:	J.A.C.
DWG:	HP-WMExt-Plans.dwg

DESIGN ENGINEER:

JEREMY A. COVEY, P.E.

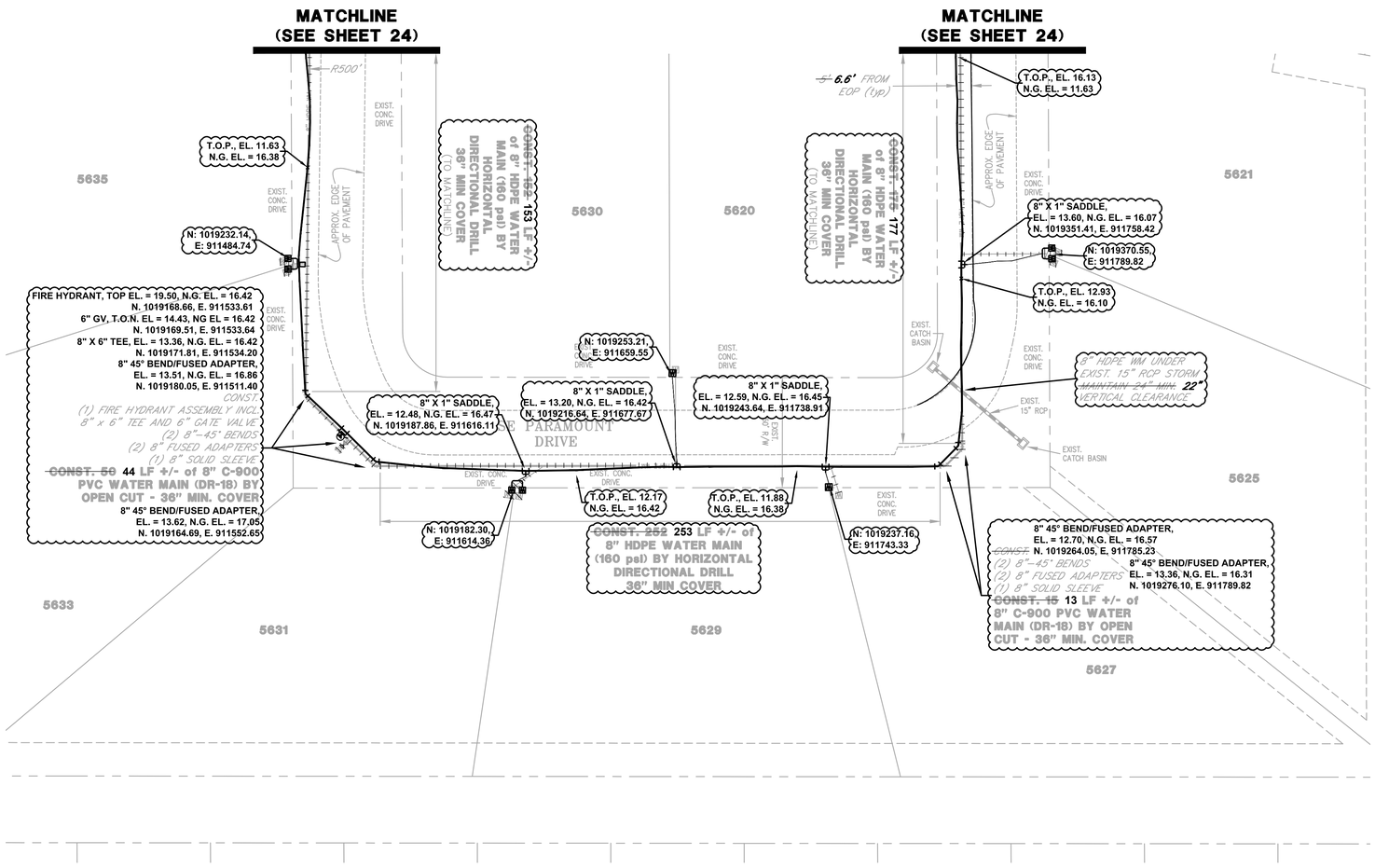
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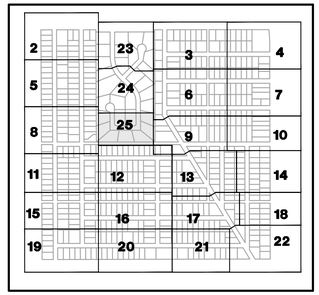
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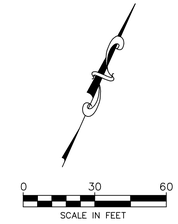
SHEET **24** OF **28**

Drawing name: D:\Civil 3D Projects\18-066 Hibiscus Park WM\DWG\18-066 ASBLT HP-WMExt-Plans 121818.dwg Sheet 24 Feb 20, 2019 10:32am by: Admin





KEY MAP



LEGEND

- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE
- FIRE HYDRANT
- BLOW-OFF
- SAMPLE POINT
- GATE VALVE
- EXISTING GATE VALVE
- EXISTING WATER MAIN
- EXISTING FORCE MAIN
- EXISTING IQ MAIN

NOTE;

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VERTICAL DATUM = NAVD88

REVISIONS	DATE	BY

MARTIN COUNTY UTILITIES
2378 S.E. OCEAN BOULEVARD
STUART, FLORIDA 34995-9000
Phone: (772) 221-1442 Fax: (772) 221-1447

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Hibiscus Park

MARTIN COUNTY, FL

WATER MAIN EXTENSION

WATER MAIN EXTENSION PLANS

DATE:	JUNE 2017
SCALE:	1" = 30'
DESIGN:	SJV
DRAWN:	SJV
CHECKED:	J.A.C.
DWG:	HP-WMExt-Plans.dwg

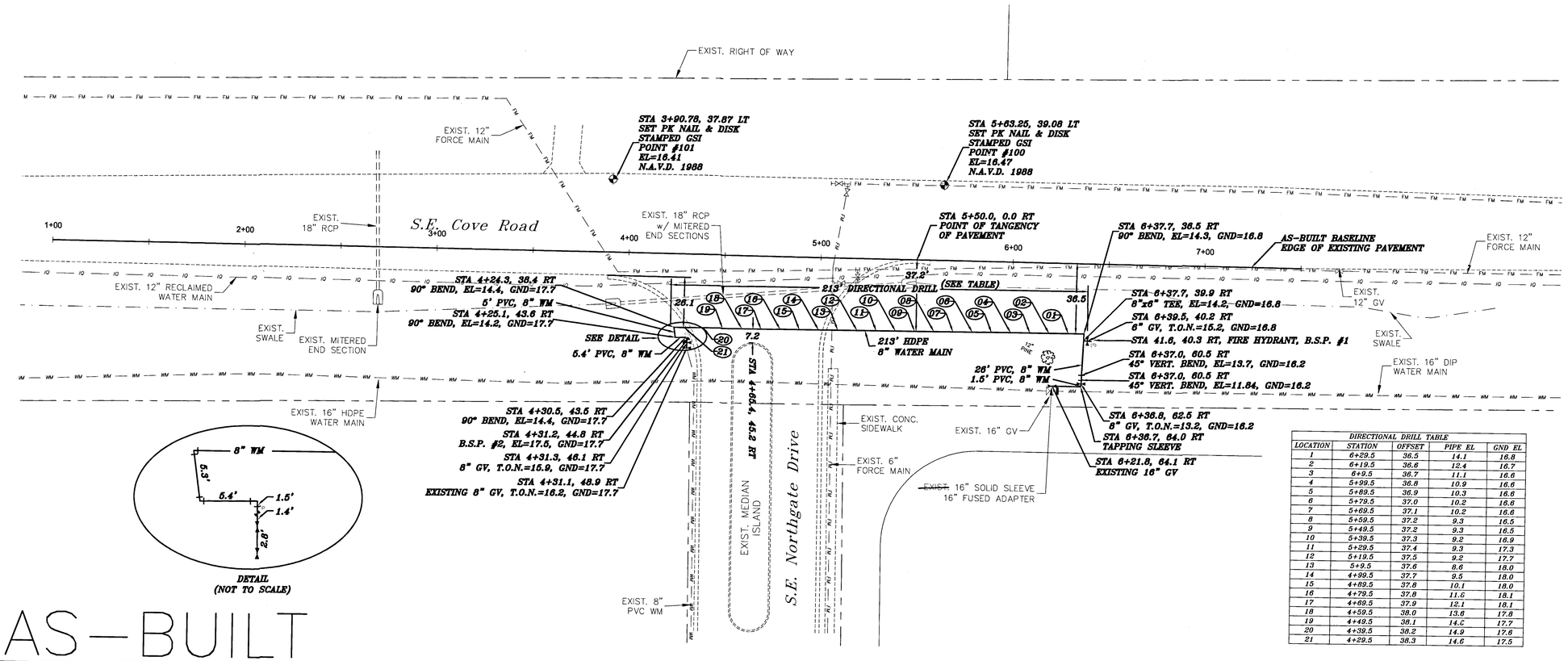
DESIGN ENGINEER:
JEREMY A. COVEY, P.E.

FLORIDA REGISTRATION NUMBER:
75472

"SEAL"

SHEET
25
OF
28

Drawing name: D:\Civil 3D Projects\18-066 Hibiscus Park WW\DWG\18-066 ASBLT HP-WMExt-Plans 121818.dwg Sheet 25 Feb 20, 2019 10:06am by: Admin



DIRECTIONAL DRILL TABLE				
LOCATION	STATION	OFFSET	PIPE EL	GND EL
1	6+29.5	36.5	14.1	16.8
2	6+19.5	36.6	12.4	16.7
3	6+9.5	36.7	11.1	16.6
4	5+99.5	36.8	10.9	16.6
5	5+89.5	36.9	10.3	16.6
6	5+79.5	37.0	10.2	16.6
7	5+69.5	37.1	10.2	16.6
8	5+59.5	37.2	9.3	16.5
9	5+49.5	37.2	9.3	16.5
10	5+39.5	37.3	9.2	16.9
11	5+29.5	37.4	9.3	17.3
12	5+19.5	37.5	9.2	17.7
13	5+9.5	37.6	8.6	18.0
14	4+99.5	37.7	9.5	18.0
15	4+89.5	37.8	10.1	18.0
16	4+79.5	37.8	11.6	18.1
17	4+69.5	37.9	12.1	18.1
18	4+59.5	38.0	13.6	17.8
19	4+49.5	38.1	14.C	17.7
20	4+39.5	38.2	14.9	17.6
21	4+29.5	38.3	14.6	17.5

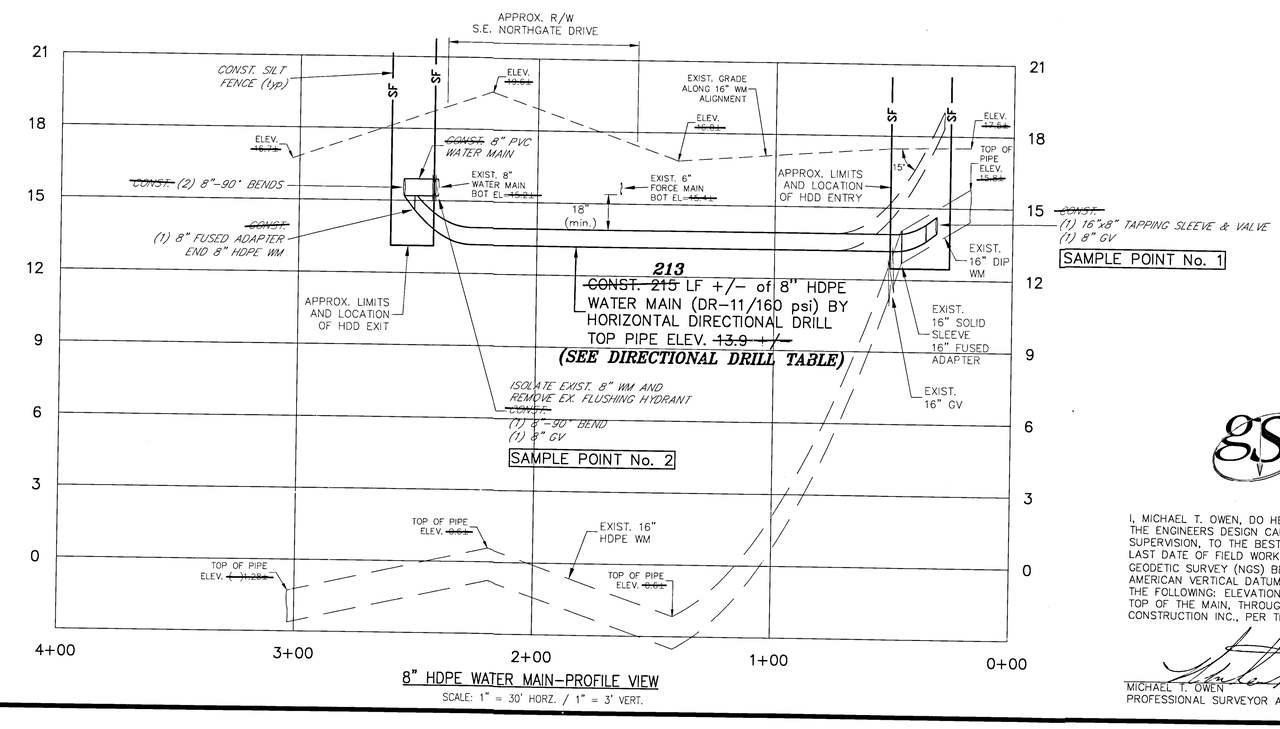
0 30 60
SCALE IN FEET

LEGEND

- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE
- FIRE HYDRANT
- BLOW-OFF
- SAMPLE POINT
- GATE VALVE
- EXISTING GATE VALVE
- EXISTING WATER MAIN
- EXISTING FORCE MAIN
- EXISTING GRAVITY SEWER MAIN

LEGEND

EL = ELEVATION
WM = WATER MAIN
FM = FORCE MAIN
GND = GROUND
STA = STATION
RT = RIGHT
LT = LEFT
T.O.N. = TOP OF NUT
GV = GATE VALVE
B.S.P. = BACTERIA SAMPLE POINT
VERT = VERTICAL
SP = SAMPLE POINT
20.00 = AS-BUILT DATA



8" HDPE WATER MAIN-PROFILE VIEW
SCALE: 1" = 30' HORZ. / 1" = 3' VERT.

AS-BUILTS PREPARED BY:

GEOMATICS SERVICES Inc.
PROFESSIONAL SURVEYORS & MAPPERS
3815 S.W. Savoy Dr. PALM CITY, FLORIDA
(772) 419-8383 FAX (772) 408-4208
CERTIFICATE OF AUTHORIZATION LB# 7673

I, MICHAEL T. OWEN, DO HEREBY CERTIFY THAT THE AS-BUILTS SHOWN HEREON ARE BASED ON THE ENGINEERS DESIGN CAD FILE AND ARE TRUE AND CORRECT AS LOCATED UNDER MY DIRECT SUPERVISION, TO THE BEST OF MY KNOWLEDGE AND BELIEF, AS OF AUGUST 30, 2011, BEING THE LAST DATE OF FIELD WORK. THE ELEVATIONS SHOWN HEREON ARE BASED ON NATIONAL GEODETIC SURVEY (NGS) BENCHMARK "A-569". THE AS-BUILT ELEVATIONS ARE IN THE NORTH AMERICAN VERTICAL DATUM OF 1988. ALL DATA IS IN FEET. THE AS-BUILT DATA CONSISTS OF THE FOLLOWING: ELEVATIONS AND LOCATIONS, OF THE WATER MAIN. ALL ELEVATIONS ON THE TOP OF THE MAIN, THROUGH THE DIRECTIONAL DRILL PORTION, PROVIDED BY EASTERN PIPELINE CONSTRUCTION INC., PER THEIR BORE LOG.

MICHAEL T. OWEN
PROFESSIONAL SURVEYOR AND MAPPER FLORIDA REGISTRATION NUMBER 5556

9-20-2011
SIGNATURE DATE:

Summerfield Golf Club
MARTIN COUNTY, FL
WATER MAIN INTERCONNECT
PLAN & PROFILE

REVISIONS	DATE	BY

DATE: MAY 2011
SCALE: 1" = 20'
DESIGN: SJV
DRAWN: SJV
CHECKED: T.E.R.
DWG: SF-WMConnect-PP.dwg

MARTIN COUNTY UTILITIES
2276 S.E. OCEAN BOULEVARD
STUART, FLORIDA 34996-3000
Phone: (772) 221-1442 Fax: (772) 221-1447

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TED E. ROBBINS, P.E.
FLORIDA REGISTRATION
No. 40560

SHEET 2 OF 5

Drawing name: C:\Users\Bryan C. Smith\Documents\GSI Geomatics Services Inc\11-102 Summerfield\Drawings\As-Built Drawings\11-102 As-Built SF-WMConnect-PP-v2004.dwg Sheet 2 Sep 20, 2011 10:30am by: Bryan C. Smith

SW-SUMMERFIELD-INTERCONNECT-11-002

RECORD SURVEY

~~CONSTRUCTION PLANS AND SPECIFICATIONS~~

FOR

STUART ASSISTED LIVING FACILITY

HANSON GRANT, TOWNSHIP 38S, RANGE 41E

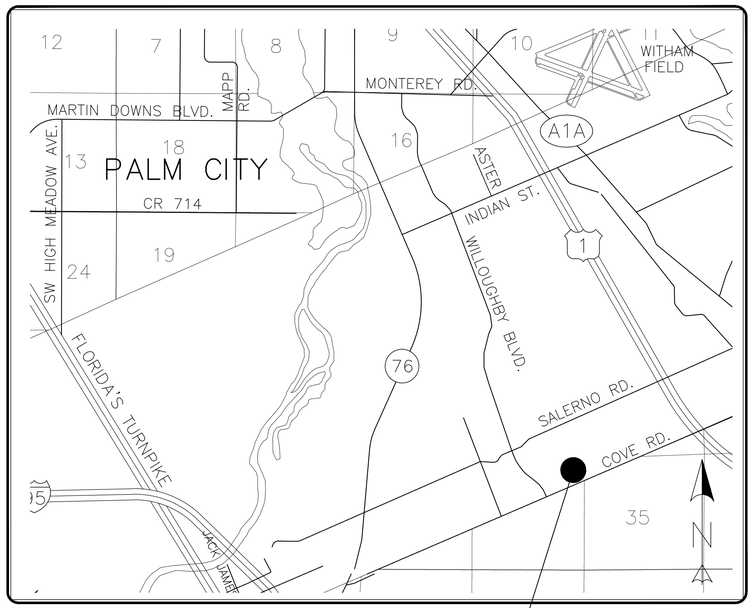
MARTIN COUNTY, FLORIDA

STUART ALF - CONSTRUCTION PLANS 9/7/2016 #15-235

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 EDC, INC. SHALL BE WITHOUT LIABILITY TO EDC, INC.

LOCATION MAP





VICINITY MAP

INDEX OF SHEETS

1. COVER
2. HORIZONTAL CONTROL AND STRIPING PLAN
3. PAVING, GRADING, AND DRAINAGE PLAN
4. TURN LANE HORIZONTAL CONTROL AND PAVING, GRADING AND DRAINAGE PLAN
4a. TURN LANE HORIZONTAL CONTROL AND PAVING, GRADING AND DRAINAGE PLAN
5. UTILITY PLAN (5A - WATER □ 5B - SANITARY)
6. PAVING, GRADING AND DRAINAGE DETAILS
7. PAVING, GRADING AND DRAINAGE DETAILS
8. TURN LANE DETAILS
9. TURN LANE CROSS SECTIONS
10. UTILITY DETAILS
11. UTILITY DETAILS
12. LIFT STATION DETAILS
13. LAND CLEARING AND EROSION PLAN
14. LAND CLEARING AND EROSION DETAILS
15. SPECIFICATIONS

BETSY LINDSAY, INC.
SURVEYING AND MAPPING
7997 S.W. JACK JAMES DRIVE STUART, FLORIDA 34997
(772)286-5753 (772)286-5933 FAX
LICENSED BUSINESS NO. 6852

RECORD SURVEY
JOB NO. 05-07F

DATE	FIELD BOOK/PAGE
6/13/2017	MC 51 / PG 64
6/15/2017	MC 51 / PG 66
7/10/2017	MC 42 / PGS 14 & 15
7/18/2017	STUART 26
8/8/2017	STUART 37/PGS 21-23
9/24/2018	SEE NOTES IN FILE
10/8/2018	MC 45 / PG 63
10/29/2018	MC 40 / PG 37
10/31/2018	MC 40 / PG 37 & NOTES IN FILE
11/15/2018	REV. PER M.C. UTILITIES COMMENTS/SEE NOTES IN FILE
11/26/2018	SEE NOTES IN FILE

RECORD LEGEND

EL.	ELEVATION
EX.	EXISTING
FDC	FIRE DEPARTMENT CONNECTION
FM	FORCE MAIN
GND	GROUND
INV.	INVERT
LB	LICENSED BUSINESS
LF	LINEAR FEET
LT.	LEFT
MES	MITERED END SECTION
NAVD	NORTH AMERICAN VERTICAL DATUM 1988
NO.	NUMBER
P.S.M.	PROFESSIONAL SURVEYOR & MAPPER
P.L.S.	PROFESSIONAL LAND SURVEYOR
T.O.B.	TOP OF BORE
TOP	TOP OF PIPE
TON	TOP OF NUT
PVC	POLY VINYL CHLORIDE PIPE
RCP	REINFORCED CONCRETE PIPE
RT.	RIGHT
STA:	STATION
WL	WATER LINE

RECORD DATA

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THE "RECORD SURVEY" AS SHOWN HEREON IS A TRUE AND CORRECT REPRESENTATION OF A FIELD SURVEY MADE UNDER MY DIRECTION AND CHARGE ON JUNE 13, 2017 THROUGH NOVEMBER 26, 2018 AND SAID "RECORD SURVEY" IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF. IT IS FURTHER CERTIFIED THAT THIS "RECORD SURVEY" COMPLIES WITH THE STANDARDS OF PRACTICE FOR "RECORD SURVEY" SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

BETSY LINDSAY, INC.
SURVEYING AND MAPPING

_____
DAVID JOSEPH WICHSER, P.S.M. NOT VALID WITHOUT THE SIGNATURE
FLORIDA REGISTRATION NO. 5565 AND ORIGINAL RAISED SEAL OF A
FLORIDA LICENSED SURVEYOR AND MAPPER

SURVEYOR'S NOTES

1. BEARINGS AS SHOWN HEREON ARE BASED ON STATE PLANE COORDINATES, U.S. SURVEY FEET, NORTH AMERICAN DATUM OF 1983/1990 (N.A.D. 83/90), FLORIDA EAST ZONE, REFERENCE A BEARING OF N23°50'10"W ALONG THE WEST LINE OF PROPERTY.
2. ELEVATIONS AS SHOWN HEREON REFERENCE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88), REFERENCE MARTIN COUNTY BENCHMARK "SF 5", ELEVATION = 18.16' FEET. TO CONVERT FROM NAVD 88 TO NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD 29) ADD 1.46 FEET TO NAVD 88 ELEVATION.
3. THE PROPERTY AS DESCRIBED HEREON IS LOCATED IN FEDERAL FLOOD ZONE X. REFERENCE FEMA MAP COMMUNITY NO. 120161, PANEL 0163 SUFFIX G, EFFECTIVE DATE MARCH 16, 2015. NO SEARCH FOR MAP MODIFICATIONS HAS BEEN DONE BY THIS SURVEYOR.
4. THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR.
5. THIS IS NOT A BOUNDARY SURVEY.
6. THE RECORD DATA AS SHOWN HEREON WAS OVERLAID ONTO A DIGITAL FILE PROVIDED BY ENGINEERING DESIGN & CONSTRUCTION, INC FOR STUART ASSISTED LIVING FACILITY, REFERENCE PROJECT NO. 15-235, LAST DATE 3/21/17, REFERENCE SHEET NO. 1, 5a, AND 5b OF 15.

DATUM NOTE: ALL ELEVATIONS SHOWN HERE REFERENCE THE NORTH AMERICAN VERTICAL DATUM NAVD88

ENGINEERING DESIGN & CONSTRUCTION, INC.
10250 SW V□a□e Par□□a□, S□□e 201
Por□S□L□□e, FL 34987
□hone: 772-462-2455

BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF AUTHORIZATION NUMBER 9935

R.J. KENNEDY, P.E. (DATE)
#56218
10250 SW VILLAGE PKWY - SUITE 201
PORT SAINT LUCIE, FL 34987
772-462-2455

S:\05projects\05-07F-ALF-MEDICAN\revised\ cad\07189.NB-15-235 Engineering & Ltr.dwg, Cover, 11/27/2018 11:15:23 AM

CONFLICT INFORMATION

1. STORMWATER OVER SANITARY SEWER
   8" 2.33' SEPARATION
   18" RCP STORM BOTTOM~~13.31~~ 13.69'
   8" SAN. TOP~~12.31~~ 11.36'
2. CONTRACTOR TO ROUTE WATER MAIN TO MAINTAIN A MINIMUM OF 12" SEPARATION BETWEEN PROPOSED 2" FORCE MAIN AND PROPOSED 12" WATER MAIN, COVER TO COMPLY WITH MARTIN COUNTY REQUIREMENTS.
   12" WM BOTTOM = 12.79', 2" FM TOP = 11.35', SEPARATION = 1.44'
3. POTABLE WATER OVER SANITARY SEWER
   12" 0.91' SEPARATION
   4" WM BOTTOM~~15.39~~ 15.08'
   6" SAN. TOP~~14.39~~ 14.17'
4. CONTRACTOR TO ROUTE WATER MAIN TO MAINTAIN A MINIMUM OF 12" SEPARATION BETWEEN PROPOSED 4" POTABLE WATER MAIN AND PROPOSED 8" FIRE MAIN. COVER TO COMPLY WITH MARTIN COUNTY REQUIREMENTS.
   SEPARATION = ±3.4'
5. POTABLE WATER OVER SANITARY SEWER
   12" 1.04' SEPARATION
   4" WM BOTTOM~~15.19~~ 15.00'
   6" SAN. TOP~~14.19~~ 13.96'
6. POTABLE WATER OVER SANITARY SEWER
   ~~1.79~~ 1.74' SEPARATION
   4" WM BOTTOM~~15.19~~ 15.00'
   6" SAN. TOP~~13.39~~ 13.26'
7. CONTRACTOR TO ROUTE FORCE MAIN TO MAINTAIN A MINIMUM OF 12" SEPARATION BETWEEN PROPOSED 2" FORCE MAIN AND 15"x21" STORM PIPE, COVER TO COMPLY WITH MARTIN COUNTY REQUIREMENTS.
   13"x23" STORM PIPE BOTTOM = 15.24', 2" FM TOP = 13.31', SEPARATION = 1.93'
8. CONTRACTOR TO ROUTE WATER MAIN TO MAINTAIN A MINIMUM OF 12" SEPARATION BETWEEN PROPOSED 8" WATER MAIN AND 2" FORCE MAIN. COVER TO COMPLY WITH MARTIN COUNTY REQUIREMENTS.
   8" WM TOP = 13.07', 2" FM BOTTOM = 14.46', SEPARATION = 1.39'

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 ADAPTION BY EDC, INC. SHALL BE WITHOUT LIABILITY TO EDC, INC.

BETSY LINDSAY, INC.
SURVEYING AND MAPPING
7997 S.W. JACK JAMES DRIVE STUART, FLORIDA 34997
(772)286-5753 (772)286-5933 FAX
LICENSED BUSINESS NO. 6852

RECORD SURVEY
JOB NO. 05-07E

BOUNDARY LINE
N 65°03'48" E 660.14'(M) 660' (P)
E CONSTRUCTION SETBACK
DRAINAGE, FLOWAGE AND CONSERVATION EASEMENT (O.R.B. 2135, PG. 2236)
WETLAND A 10.10 ACRES
50' UPLAND BUFFER
N 23°50'10" W (REFERENCE BEARING)
610.31'(M) 610' (P)
PROPOSED BUILDING
GROSS FLOOR AREA = 106,982 S.F.
F.F.E. = 18.00 NAVD
POOL AREA ELEV: ±17.75 (BY OTHERS)
CONTRACTOR TO CONNECT WATER MAIN TO BUILDING
4" WATER SERVICE
STA: 104+51.11, 24.57' LT.
N 1017302.38', E 909927.53'
CONTRACTOR TO CONNECT WATER MAIN TO BUILDING
CONTRACTOR TO CONNECT TO EX. 12" POTABLE WM. SEE NOTE 6.
EX. 12" POTABLE WM
EX. 12" GATE VALVE
EX. OVERHEAD UTILITIES
EX. SIDEWALK
BLOWUP □1
PROPOSED UTILITY EASEMENT
PROPOSED SIDEWALK
15' ROW DEDICATION
PRIVATE MCU
REMOVE EX. BLOW-OFF INSTALL (1) FILL □ FLUSH ASSEMBLY (1) BSP □1
INSTALL TEMPORARY SWALE PIPE
CONSTRUCT 5' TEMPORARY SIDEWALK (2% MAX CROSS SLOPE)
INSTALL 80 LF WATER FILLED BARRIER PER FDOT INDEX
TEMPORARY SIDEWALK / M.O.T. SETUP TO BE INSPECTED BY MARTIN COUNTY ENGINEERING DEPARTMENT PRIOR TO COMMENCEMENT
EX. EDGE OF PAVEMENT
100.00' ROW
S.E. COVE ROAD (ASPHALT ROAD)
BASELINE SURVEY COVE ROAD RIGHT OF WAY MAP
RIGHT OF WAY DEDICATION ORB 155, PG 414
RIGHT OF WAY DEDICATION ORB 151, PG 456
SEE BLOWUP #1 ON THIS SHEET
CONTRACTOR TO CONNECT WATER MAIN TO BUILDING
INSTALL IRRIGATION WELL (SEE LANDSCAPE PLANS)
EXISTING LAKE
NO PLANTING ZONE
COUNTING ZONE
BSP □2
TEMPORARY BENCHMARK CB-7 RIM EL=16.41' NAVD
BOUNDARY LINE

INSTALL 8" 90° BEND TOP EL=13.60', COVER=3.6' STA: 16+22.88, 92.05' RT. N 1016905.02', E 909923.60'
INSTALL 45 ±45.4 LF 4" WATER SERVICE
INSTALL 8" 90° BEND TOP EL=12.95', COVER=4.2' STA: 0+86.55, 70.83' LT. N 1016900.25', E 909925.56'
INSTALL 12 ±5.2 LF 8" FIRE LINE
INSTALL 8" 90° BEND TOP EL=12.70', COVER=4.5' STA: 0+85.90, 54.52' LT. N 1016906.26', E 909940.78'
INSTALL 39 ±28.0 LF 8" FIRE LINE
INSTALL 8"x6" TEE TOP EL=12.83', COVER=4.4' STA: 0+77.94, 53.72' LT. N 1016899.51', E 909944.73'
INSTALL 4" 90° BEND TOP EL=14.33', COVER=5.0' STA: 16+10.73, 81.39' RT. N 1016900.26', E 909939.04'
INSTALL 29 ±16.4 LF 8" FIRE LINE
INSTALL 22 ±23.8 LF 4" WATER SERVICE
INSTALL 8" DCVV
±1.6 LF 4" WATER SERVICE
4" 90° BENDS (2) BOTTOM BEND-TOP EL=14.23', COVER=3.0' TOP BEND-TOP EL=19.36' STA: 16+10.87, 76.89' RT. N 1016896.09', E 909940.75'
4" 90° BENDS (2) BOTTOM BEND-TOP EL=14.27', COVER=3.0' TOP BEND-TOP EL=19.41' STA: 16+11.05, 72.56' RT. N 1016892.06', E 909942.36'
4"x2" REDUCER TOP EL=14.27', COVER=3.0' STA: 16+11.07, 71.09' RT. N 1016890.71', E 909942.94'
±4.7 LF 2" WATER SERVICE
±7.2 LF 8" WATER SERVICE
PROPOSED 2" WATER METER STA: 16+10.81, 68.38' RT. N 1016888.35', E 909944.28'
PROPOSED 12" WATER MAIN
4"x2" REDUCER TOP EL=13.25', COVER=3.9' STA: 16+11.14, 66.41' RT. N 1016886.41', E 909944.79'
INSTALL 8" 90° BEND TOP EL=13.34', COVER=3.9' STA: 16+05.20, 58.22' RT. N 1016881.37', E 909953.55'
INSTALL GATE VALVE TON EL=14.25' STA: 16+11.19, 64.03' RT. N 1016884.22', E 909945.71'
INSTALL ±6.0 LF 8" FIRE LINE
±12.4 LF 4" WATER SERVICE
INSTALL 8"x6" REDUCER TOP EL=13.30', COVER=3.9' STA: 16+11.22, 61.25' RT. N 1016881.67', E 909946.83'
INSTALL 12"x6" TEE TOP EL=13.60', COVER=4.0' STA: 16+10.99, 54.06' RT. N 1016875.20', E 909949.97'
INSTALL 8"x8" TEE TOP EL=13.43', COVER=4.2' STA: 16+11.15, 57.89' RT. N 1016878.64', E 909948.26'
INSTALL 12"x6" TEE TOP EL=15.04' GND EL=17.2', COVER=2.2' STA: 19+24.58, 50.23' RT. N 1016743.57', E 909665.32' 6" GATE VALVE, TON EL=15.87' STA: 19+24.58, 53.75' RT. N 1016746.78', E 909663.88' ± ±7.1 LF OF 6" PVC AND FIRE HYDRANT ASSEMBLY FLANGE EL=18.55' STA: 19+24.90, 57.38' RT. N 1016749.96', E 909662.10'
12" PVC WATERMAIN TOP EL=14.33' GND EL=17.2', COVER=2.9' STA: 18+43.92, 50.76' RT. N 1016777.01', E 909738.73'
INSTALL 117 ±112.3 LF OF 12" PVC WATER MAIN 36" MIN. - 48" MAX. COVER
12" PVC WATERMAIN TOP EL=14.37' GND EL=17.1', COVER=2.7' STA: 19+83.27, 48.33' RT. N 1016717.85', E 909612.53'
INSTALL 117 LF OF 12" PVC WATER MAIN 36" MIN. - 48" MAX. COVER
12" HDPE WATERMAIN T.O.B. EL=11.70' GND EL=17.5', COVER=5.8' STA: 21+96.01, 38.19' RT. N 1016621.67', E 909422.51'
INSTALL 200 ±209.4 LF OF 12" WATER MAIN BY HDD. 36" MIN. - 48" MAX. COVER
NEW 12" GATE VALVE TON EL=16.07' STA: 22+45.98, 37.03' RT. N 1016600.19', E 909377.37'
INSTALL 4" 90° BEND TOP EL=14.4', COVER=4.5' STA: 0+88.55, 70.83' LT. N 1016900.25', E 909925.56'
INSTALL 4" 90° BEND TOP EL=13.95', COVER=4.0' STA: 15+86.90, 82.12' RT. N 1016910.66', E 909960.50'
INSTALL 8" ±88.0 LF OF 8" FIRE LINE
8" 90° BENDS (2) BOTTOM BEND-TOP EL=13.01', COVER=4.2' TOP BEND-TOP EL=19.46' STA: 16+05.76, 74.83' RT. N 1016896.30', E 909946.26'
8" 90° BENDS (2) BOTTOM BEND-TOP EL=12.86' COVER=4.3' TOP BEND-TOP EL=19.46' STA: 16+05.50, 67.76' RT. N 1016889.95', E 909949.38'
INSTALL 8" GATE VALVE, TON EL=14.36' STA: 16+05.34, 64.86' RT. N 1016887.37', E 909950.72'
INSTALL 8" 90° BEND TOP EL=13.34', COVER=3.9' STA: 16+05.20, 58.22' RT. N 1016881.37', E 909953.55'
INSTALL 8" 90° BEND TOP EL=13.34', COVER=3.9' STA: 16+05.20, 58.22' RT. N 1016881.37', E 909953.55'
INSTALL 8"x6" TEE TOP EL=12.83', COVER=4.4' STA: 0+77.94, 53.72' LT. N 1016899.51', E 909944.73'
INSTALL 4" 90° BEND TOP EL=14.26', COVER=3.0' STA: 15+86.90, 82.12' RT. N 1016910.66', E 909960.50'
INSTALL 8" ±88.0 LF OF 8" FIRE LINE
INSTALL 8" DCVV
INSTALL 4" 45° BEND, TOP EL=14.38' GND EL=16.80', COVER=2.42' STA: 103+56.43, 13.31' LT. N 1017220.32', E 909976.09'
INSTALL 8"x6" TEE, TOP EL=14.31' GND EL=16.88', COVER=2.57' STA: 103+98.46, 10.81' RT. N 1017268.52', E 909981.17'
INSTALL 99 ±95.8 LF 4" WATER SERVICE
INSTALL 11 ±8.7 LF 4" WATER SERVICE
INSTALL 4" 90° BEND TOP EL=15.29' GND EL=17.06', COVER=1.77' STA: 2+34.24, 19.40' LT. N 1017067.80', E 909916.82'
INSTALL 161 ±92.2 LF 4" WATER SERVICE
INSTALL 2-4" 45° BENDS (N) 45° BEND, TOP EL=15.45' GND EL=17.12', COVER=1.67' STA: 1+51.15, 11.03' LT. N 1016983.52', E 909954.20' (S) 45° BEND, TOP EL=15.41' GND EL=17.33', COVER=1.92' STA: 1+27.35, 35.09' LT. N 1016952.04', E 909941.80'
INSTALL 34 ±33.8 LF 4" WATER SERVICE
12" PVC WATERMAIN TOP EL=13.79' GND EL=17.5', COVER=3.5' STA: 15+78.75, 54.34' RT. N 1016888.63', E 909979.28'
12" PVC WATERMAIN TOP EL=13.90' GND EL=17.2', COVER=3.3' STA: 17+46.66, 52.24' RT. N 1016818.11', E 909826.89'
INSTALL 21 ±5.8 LF OF 8" FIRE LINE
INSTALL 8" 90° BEND TOP EL=13.57' GND EL=17.7', COVER=4.1' STA: 15+17.96, 80.37' RT. N 1016937.23', E 910024.13'
INSTALL 218 LF OF 12" PVC WATER MAIN, 36" MIN. - 48" MAX. COVER
INSTALL FDC STA: 15+18.15 96.14' RT. N 1016951.55' E 910017.51'
FIRE HYDRANT STA: 14+46.51, 98.32' RT. N 1016882.81' E 910082.01'
INSTALL 4" 90° BEND TOP EL=15.61' GND EL=17.53', COVER=3.92' STA: 104+52.15, 15.91' LT. N 1017306.83', E 909935.03'
INSTALL 8" CAP, TOP EL=14.34' GND EL=17.04', COVER=2.70' STA: 104+08.46, 10.80' RT. N 1017277.65', E 909977.12'
INSTALL 8" GATE VALVE, TON EL=15.71' STA: 104+04.35, 10.85' RT. N 1017273.91', E 909978.83'
INSTALL BSP #3, 6" GATE VALVE, TON EL.=15.37' STA: 103+98.22, 11.70' RT. N 1017268.66', E 909982.08' AND FIRE HYDRANT ASSEMBLY. STA: 103+97.97, 19.60' RT. N 1017271.62', E 909989.40'
INSTALL 8.8 LF OF 6" PVC WATER MAIN, 48" MIN. COVER
INSTALL 288 ±278.1 LF OF 8" PVC WATER MAIN. 48" MIN. COVER
8" PVC WATERMAIN TOP EL=12.53' GND EL=16.61', COVER=4.08' STA: 103+19.92, 9.71' RT. N 1017196.23', E 910011.90'
8" PVC WATERMAIN TOP EL=12.55' GND EL=16.79', COVER=4.24' STA: 102+20.30, 9.79' RT. N 1017105.14', E 910052.23'
INSTALL 45° BEND, TOP EL=12.84' GND EL=17.30', COVER=4.46' STA: 101+22.89, 10.53' RT. N 1017013.72', E 910092.59'
INSTALL 13 ±13.6 LF OF 8" PVC WATER MAIN, 48" MIN. COVER
INSTALL 6"x6" TEE, TOP EL=13.04' GND EL=17.41', COVER=4.37' STA: 101+21.02, 11.01' RT. N 1017010.87', E 910099.41'
6" GATE VALVE, TON EL=14.10' STA: 101+20.48, 16.71' RT. N 1017009.71', E 910099.14'
INSTALL 34 LF OF 6" PVC AND FIRE HYDRANT ASSEMBLY. STA: 101+04.29, 15.30' RT. N 1016982.81', E 910082.01'
INSTALL 45° BENDS 8"~45° BEND, TOP EL=13.36' GND EL=17.44', COVER=4.08' STA: 101+19.96, 22.73' RT. N 1017009.48', E 910105.16' 6"~45° BEND, TOP EL=14.81' GND EL=17.44', COVER=2.63' STA: 101+08.79, 16.58' RT. N 1016987.42', E 910090.14'
INSTALL 57 ±54.9 LF OF 8" PVC WATER MAIN. 48" MIN. COVER (PORTION OF PRIVATE WATER MAIN NOT TO BE TURNED OVER TO MCU)
INSTALL 12"x8" TEE, TOP EL=13.14' GND EL=16.6', COVER=3.5' STA: 14+15.90, 57.30' RT. N 1016957.88', E 9101126.70'
12" PVC WATERMAIN TOP EL=13.93' GND EL=17.3', COVER=3.4' STA: 16+46.43, 53.30' RT. N 1016860.03', E 909917.94'
12" PVC WATERMAIN TOP EL=13.36' GND EL=17.3', COVER=3.9' STA: 15+19.60, 55.78' RT. N 1016914.11', E 910032.68'
INSTALL 313 ±313.6 LF OF 12" PVC WATER MAIN. 36" MIN. - 48" MAX. COVER
12" SLEEVE, TOP EL=14.52' GND EL=17.5', COVER=3.0' STA: 20+36.73, 45.11' RT. N 1016693.08', E 909565.05
12" HDPE WATERMAIN T.O.B. EL=12.14' GND EL=17.7', COVER=5.6' STA: 21+46.01, 38.77' RT. N 1016642.63', E 909467.90'
12" HDPE WATERMAIN T.O.B. EL=13.18' GND EL=17.7', COVER=4.5' STA: 20+96.04, 40.26' RT. N 1016664.41', E 909512.90'
TERMINATED PROPOSED 12" WM WITH 12" GATE VALVE, TON EL=14.77' STA: 13+92.66, 56.82' RT. N 1018965.07, E 910142.80' AND FLUSHING HYDRANT ASSEMBLY
RPZ METER TOP EL=20.60' STA: 14+15.03, 66.74' RT. N 1016966.85', E 910123.65'
INSTALL 8" GATE VALVE, TON EL=14.31' STA: 14+15.87', 60.71' RT. N 1016961.01', E 910125.34' AND 6" DDCV, TOP EL=20.60' STA: 14+15.86', 66.80' RT. N 1016966.67', E 910122.86'
TEMPORARY BENCHMARK FOUND 4" DIAMETER CONCRETE MONUMENT WITH CAP "GCY LB 4108" EL=16.69' NAVD

0 40
(IN FEET)
1 inch = 40 ft.

DATUM NOTE: ALL ELEVATIONS SHOWN HERE REFERENCE THE NORTH AMERICAN VERTICAL DATUM NAVD88

LEGEND
- +18.19 EXISTING SPOT ELEVATION
- PROPOSED DRAINAGE INLET
- SILT FENCE
- EXISTING ASPHALT
- PROPOSED ASPHALT
- PROPOSED CONCRETE
- REMOVE CONCRETE
- YD PROPOSED YARD DRAIN
- EXISTING UTILITY POLE

NOTE TO CONTRACTOR:
1. ALL PIPE ELEVATIONS SHALL BE FIELD VERIFIED BEFORE COMMENCEMENT.
2. SOD ALL DISTURBED AREAS.
3. ON-SITE GRADING NOTE: ALL GREEN SPACE NEEDS TO BE GRADED ON TO THE SITE TO AN INLET OR YARD DRAIN. NOT TO EXCEED 4:1 SLOPE.
4. OFF-SITE GRADING NOTE: ALL GREEN SPACE NEEDS TO BE RE-GRADED AND RE-SODDED TO MATCH EXISTING FLOW. NOT TO EXCEED 4:1 SLOPE.
5. ALL OFF-SITE STRIPING SHALL BE THERMOPLASTIC PAVEMENT MARKING PER SECTION 711 OF THE 2015 FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
6. CONNECTION TO EXISTING WATER MAIN AND FORCE MAIN SHALL NOT BE MADE UNTIL APPROVED BY MARTIN COUNTY.

MARTIN COUNTY EASEMENT NOTES:
EASEMENTS FOR WATER, RECLAIMED AND SEWAGE MAINS AND APPURTENANCES SHALL BE PROVIDED WHEN THE WATER, RECLAIMED AND SEWAGE FACILITIES ARE INSTALLED OUTSIDE OF ROAD RIGHTS-OF-WAY UNDER MARTIN COUNTY CONTROL. WATER MAINS 8" OR LESS SHALL BE INSTALLED IN A 15' DEDICATED EASEMENT CENTERED ON THE PIPE. SEWAGE FORCE MAINS SHALL BE INSTALLED IN A 15' DEDICATED EASEMENT CENTERED ON THE PIPE. GRAVITY SEWER MAINS WITH 2.5-TO 10'-OF COVER SHALL BE INSTALLED IN A 20' DEDICATED EASEMENT CENTERED ON THE PIPE.

E D C I
ENGINEERING DESIGN & CONSTRUCTION, INC.
10250 SW Village Parkway, Suite 201
Port St. Lucie, FL 34987
Phone: 772-462-2455
BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF AUTHORIZATION NUMBER 9935

DESIGNED BY	JH1
DRAWN BY	NMH
FILENAME	15-235 engineering r-16.dwg
LAYOUT	Utility-WATER
SCALE	AS SHOWN
DATE	22JAN2016

DATE	REVISION COMMENTS
06-20-17	ADJUST TEMPORARY SIDEWALK AND M.O.T.
06-21-17	ADJUST EXISTING WM LOCATION & PROPOSED WM CONNECTION
03-21-17	REVISION 2 ADD FIRE HYDRANT WEST OF BUILDING
02-16-16	ADD 6" GATE VALVE & UTILITY PLANT INC REDLINES
1-22-16	REMOVE BOARDWALK
10-15-15	MARTIN COUNTY SITE PLAN SUBMITTAL

STUART ASSISTED LIVING FACILITY
UTILITY PLAN - WATER
RECORD SURVEY
MARTIN COUNTY FLORIDA

R.J. KENNEDY, P.E. (DATE)
#56218
10250 SW VILLAGE PKWY - SUITE 201
PORT SAINT LUCIE, FL 34987
☎ 772-462-2455

15-235

5a OF 15

S:\Engineering\05-07E-ALF-REC\GENS\revised cad\07136AB-15-235 Engineering R-16.dwg, Utility-WATER, 11/27/2018 11:19:32 AM

BETSY LINDSAY, INC.
SURVEYING AND MAPPING
7997 S.W. JACK JAMES DRIVE STUART, FLORIDA 34997
(772)286-5753 (772)286-5933 FAX
LICENSED BUSINESS NO. 6852

RECORD SURVEY

JOB NO. 05-07E

CONFLICT INFORMATION

1. STORMWATER OVER SANITARY SEWER
~~1'~~ **2.33'** SEPARATION
18" RCP STORM BOTTOM=~~13.31~~ **13.69'**
8" SAN. TOP=~~12.31~~ **11.36'**

2. CONTRACTOR TO ROUTE WATER MAIN TO MAINTAIN A MINIMUM OF 12" SEPARATION BETWEEN PROPOSED 2" FORCE MAIN AND PROPOSED 12" WATER MAIN. COVER TO COMPLY WITH MARTIN COUNTY REQUIREMENTS.
12" WM BOTTOM = 12.79', 2" FM TOP = 11.35', SEPARATION = 1.44'

3. POTABLE WATER OVER SANITARY SEWER
~~12"~~ **0.91'** SEPARATION
4" WM BOTTOM=~~15.39~~ **15.08'**
6" SAN. TOP=~~14.39~~ **14.17'**

4. CONTRACTOR TO ROUTE WATER MAIN TO MAINTAIN A MINIMUM OF 12" SEPARATION BETWEEN PROPOSED 4" POTABLE WATER MAIN AND PROPOSED 8" FIRE MAIN. COVER TO COMPLY WITH MARTIN COUNTY REQUIREMENTS.
SEPARATION = ±3.4'

5. POTABLE WATER OVER SANITARY SEWER
~~12"~~ **1.04'** SEPARATION
4" WM BOTTOM=~~15.18~~ **15.00'**
6" SAN. TOP=~~14.18~~ **13.96'**

6. POTABLE WATER OVER SANITARY SEWER
~~1.79'~~ **1.74'** SEPARATION
4" WM BOTTOM=~~15.18~~ **15.00'**
6" SAN. TOP=~~13.39~~ **13.26'**

7. CONTRACTOR TO ROUTE FORCE MAIN TO MAINTAIN A MINIMUM OF 12" SEPARATION BETWEEN PROPOSED 2" FORCE MAIN AND 15"x21" STORM PIPE. COVER TO COMPLY WITH MARTIN COUNTY REQUIREMENTS.
13"x23" STORM PIPE BOTTOM = 15.24', 2" FM TOP = 13.31', SEPARATION = 1.93'

8. CONTRACTOR TO ROUTE WATER MAIN TO MAINTAIN A MINIMUM OF 12" SEPARATION BETWEEN PROPOSED 8" WATER MAIN AND 2" FORCE MAIN. COVER TO COMPLY WITH MARTIN COUNTY REQUIREMENTS.
8" WM TOP = 13.07', 2" FM BOTTOM = 14.46', SEPARATION = 1.39'

GREASE TRAP TABLE (crossed out)

NAME	RIM EL.	INV. IN EL.	INV. OUT EL.
G-1	17.40	12.86	12.61
G-2	17.40	12.57	12.32
G-3	17.40	12.28	12.04

NOTE: THREE (3) 1,050 GALLON TANKS 105" LONG x 73" WIDE ARE RE□UIRED. TRAPS TO BE INSTALLED IN SERIES AND PER MARTIN COUNTY RE□UIREMENTS.

GREASE TRAP TABLE

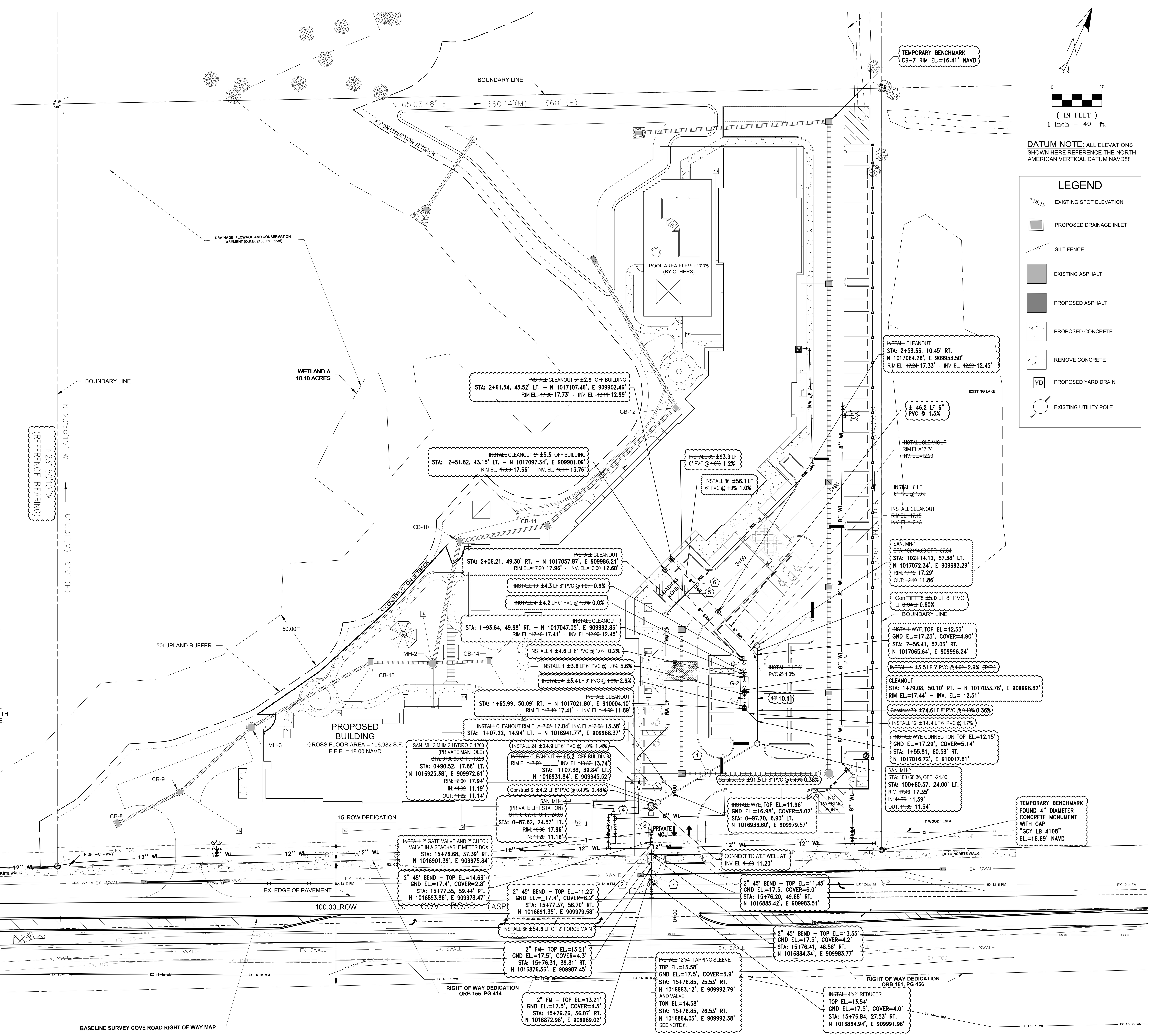
NAME	RIM EL.	INV. IN EL.	INV. INSIDE EL.	INV. OUT EL.	BOTTOM EL.
G-1 (N. RIM)	17.50	12.56			9.55
G-1 (S. RIM)	17.52		10.46	12.45	9.55
G-2 (N. RIM)	17.46	12.44			8.81
G-2 (S. RIM)	17.47		11.25	12.41	8.83
G-3 (N. RIM)	17.45	12.11			8.38
G-3 (S. RIM)	17.45		10.87	11.98	8.26

NOTE TO CONTRACTOR:

1. ALL PIPE ELEVATIONS SHALL BE FIELD VERIFIED BEFORE COMMENCEMENT.
2. SOD ALL DISTURBED AREAS.
3. ON-SITE GRADING NOTE: ALL GREEN SPACE NEEDS TO BE GRADED ON TO THE SITE TO AN INLET OR YARD DRAIN. NOT TO EXCEED 4:1 SLOPE.
4. OFF-SITE GRADING NOTE: ALL GREEN SPACE NEEDS TO BE RE-GRADED AND RE-SODDED TO MATCH EXISTING FLOW. NOT TO EXCEED 4:1 SLOPE.
5. ALL OFF-SITE STRIPING SHALL BE THERMOPLASTIC PAVEMENT MARKING PER SECTION 711 OF THE 2015 FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
6. CONNECTION TO EXISTING WATER MAIN AND FORCE MAIN SHALL NOT BE MADE UNTIL APPROVED BY MARTIN COUNTY.

MARTIN COUNTY EASEMENT NOTES:

EASEMENTS FOR WATER, RECLAIMED AND SEWAGE MAINS AND APPURTENANCES SHALL BE PROVIDED WHEN THE WATER, RECLAIMED AND SEWAGE FACILITIES ARE INSTALLED OUTSIDE OF ROAD RIGHTS-OF-WAY UNDER MARTIN COUNTY CONTROL. WATER MAINS 8" OR LESS SHALL BE INSTALLED IN A 10□DEDICATED EASEMENT CENTERED ON THE PIPE. SEWAGE FORCE MAINS SHALL BE INSTALLED IN A 15□DEDICATED EASEMENT CENTERED ON THE PIPE. GRAVITY SEWER MAINS WITH 2.5□TO 10□OF COVER SHALL BE INSTALLED IN A 20□DEDICATED EASEMENT CENTERED ON THE PIPE.



ENGINEERING DESIGN & CONSTRUCTION, INC.
10250 SW V□□a□e Par□□a□, S□□e 201
Por□S□L□□e, FL 34987
□hone: 772-462-2455
BOARD OF PROFESSIONAL ENGINEERS CERTIFICATE OF AUTHORIZATION NUMBER 9935

DESIGNED BY	JRH
DRAWN BY	NMH
FILENAME	ab-15-235 engineering r-16.dwg
LAYOUT	Utility SAN
SCALE	AS SHOWN
DATE	22JAN2015

DATE	REVISION COMMENTS
06-20-17	ADJUST TEMPORARY SIDEWALK AND M.O.T.
05-31-17	ADJUST EXISTING WM LOCATION & PROPOSED WM CONNECTION
03-21-17	REVISION 9 ADD FIRE HYDRANT WEST OF BUILDING
05-23-16	SHOW CONFLICTS 7 &8, UPDATE UTILITY PLAN PER MC REDLINES.
1-22-16	REMOVE BOARDWALK
10-15-15	MARTIN COUNTY SITE PLAN SUBMITTAL

STUART ASSISTED LIVING FACILITY

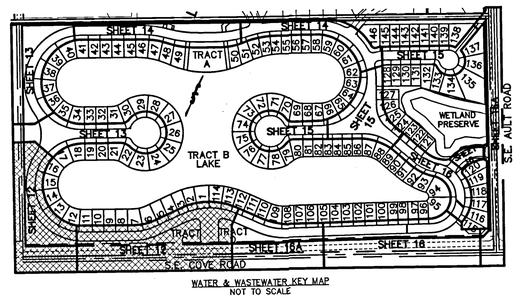
UTILITY PLAN - SANITARY RECORD SURVEY

MARTIN COUNTY FLORIDA

R.J. KENNEDY, P.E. (DATE)
#56218
10250 SW VILLAGE PKWY - SUITE 201
PORT SAINT LUCIE, FL 34987
☎ 772-462-2455

15-235

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WATER & WASTEWATER KEY MAP
NOT TO SCALE

MATCH LINE 1

LOT 17 · LOT 16 · LOT 15 · LOT 14 · LOT 13 · LOT 12 · LOT 11 · LOT 10 · LOT 9 · LOT 8 · LOT 7 · LOT 6 · LOT 5 · LOT 4 · LOT 3 · LOT 2 · LOT 1 · LOT 114 · LOT 113

TRACT C
OPEN AREA

S.E. COVE ROAD

MATCH LINE 2

MATCH LINE 16

10.0' UTILITY EASEMENT

15.0' DRAINAGE EASEMENT

10' UTILITY EASEMENT PER O.R.B. PG.

NORTHERLY RIGHT-OF-WAY LINE COVE ROAD

EXISTING 12" PVC FORCE MAIN

EXISTING 6" SIDEWALK

10' MIN.

REMOVE EXISTING STORM PIPE

EXISTING 12" PVC FORCE MAIN

BOTTOM OF WATER MAIN ELE. 12.5
TOP OF FORCE MAIN ELE. 11.0

6" PVC WATER MAIN

6" PVC FORCE MAIN

12" x 6" WET TAPPING TEE

6" PVC FORCE MAIN

8" PVC WATER MAIN

18" PVC WATER MAIN

6' CONCRETE WALK

FIRE HYDRANT No. 1 W/ SAMPLE POINT NO. 1

FIRE HYDRANT No. 2 W/ SAMPLE POINT NO. 2

FIRE HYDRANT No. 16 W/ SAMPLE POINT NO. 1

6" RSGV No. 5

6" RSGV No. 33

6" RSGV No. 34

6" RSGV No. 35

8" RSGV No. 1

8" RSGV No. 2

8" RSGV No. 3

8" RSGV No. 4

8" RSGV No. 30

18" RSGV No. 31

PLUG

18"x18"x6" TEE EL. 14.4

8"x8"x6" TEE EL. 14.6

8"x8"x8" TEE

18"x18"x8" TEE EL. 13.4

BOTTOM OF STORM ELE. 12.45
TOP OF WATER ELE. 10.93
CONSTRUCT 20 LF. 8" DIP W.M.

BOTTOM OF STORM ELE. 12.50
TOP OF SANITARY ELE. 9.91

BOTTOM OF STORM PIPE ELE. 11.5
TOP OF FORCE MAIN ELE. 11.0

BOTTOM OF STORM ELE. 12.75
TOP OF SANITARY ELE. 11.35

BOTTOM OF STORM ELE. 12.1
TOP OF WATER ELE. 9.44
CONSTRUCT 20 LF. 8" DIP W.M.

BOTTOM OF SANITARY ELE. 12.43
TOP OF WATER ELE. 10.93
CONSTRUCT 20 LF. 8" DIP W.M.

BOTTOM OF STORM ELE. 10.95
TOP OF WATER ELE. 9.45
CONSTRUCT 20 LF. 8" DIP W.M.

BOTTOM OF SANITARY ELE. 12.74
TOP OF STORM ELE. 10.95

BOTTOM OF SANITARY ELE. 12.93
TOP OF STORM ELE. 12.43

MH-1 G.E. 16.75 (16.98) I.E. 10.93 (NE) (10.91) I.E. 10.83 (W) (10.83)

MH-2 G.E. 17.21 (17.11) I.E. 9.35 (SE) (8.37) I.E. 9.25 (NW) (8.27)

MH-3 G.E. 18.20 (18.31) I.E. 7.52 (SE) (7.56) I.E. 7.42 (N) (7.45)

MH-10 G.E. 18.75 (18.67) I.E. 9.25 (NE) (9.28) I.E. 9.15 (NW) (9.19)

MH-12 G.E. 17.80 (17.20) I.E. 12.65 (E) (12.53) I.E. 12.55 (SW) (12.51)

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

STANDARD WATER/SEWER SEPARATION STATEMENT

1. SANITARY SEWERS (INCLUDING LATERALS AND REUSE WATER LINES), FORCES MAINS AND STORM SEWERS SHALL CROSS UNDER WATER MAINS WHENEVER POSSIBLE. SANITARY SEWERS, FORCE MAINS AND STORM SEWERS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE WHENEVER POSSIBLE.

   WHERE SANITARY SEWERS, FORCE MAINS AND STORM SEWERS MUST CROSS A WATER MAIN WITH LESS THAN 18 INCHES VERTICAL DISTANCE, BOTH THE SEWER AND THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) AT THE CROSSING. (DIP IS NOT REQUIRED FOR STORM SEWERS) SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN ANY TWO JOINTS. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 6 INCHES MUST BE MAINTAINED AT ALL CROSSINGS.

   ALL CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND THE WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING (PIPES CENTERED ON THE CROSSING).

   WHERE A NEW PIPE CONFLICTS WITH AN EXISTING PIPE WITH LESS THAN 18 INCHES OF VERTICAL CLEARANCE, THE NEW PIPE SHALL BE CONSTRUCTED OF DIP (EXCEPT STORM SEWERS) AND THE NEW PIPE SHALL BE ARRANGED TO MEET THE CROSSING REQUIREMENTS ABOVE.

2. A MINIMUM 10 FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER AND WATER MAIN IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE.

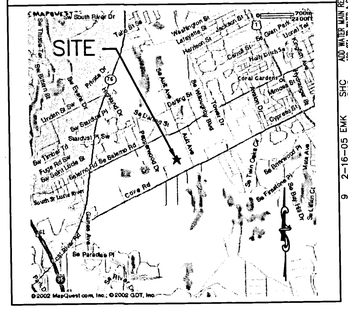
   IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.

   WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 18 INCHES IN PARALLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE SEWER OR THE FORCE MAIN SHALL BE CONSTRUCTED OF DIP (EXCEPT STORM SEWERS) WITH A MINIMUM VERTICAL DISTANCE OF 6 INCHES. THE WATER MAIN SHOULD ALWAYS BE ABOVE THE SEWER. JOINTS ON THE WATER MAIN SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM JOINTS ON THE SEWER OR FORCE MAIN (STAGGERED JOINTS).

3. ALL DIP SHALL BE CLASS 50 OR HIGHER. ADEQUATE PROTECTIVE MEASURES AGAINST CORROSION SHALL BE USED AS DETERMINED BY THE ENGINEER.

4. MAXIMUM OBTAINABLE SEPARATION OF RECLAIMED WATER LINES AND DOMESTIC WATER LINES SHALL BE PRACTICED. A MINIMUM HORIZONTAL SEPARATION OF FIVE FEET (CENTER TO CENTER) OR THREE FEET (OUTSIDE TO OUTSIDE), SHALL BE MAINTAINED BETWEEN RECLAIMED WATER LINES AND EITHER POTABLE WATER MAINS OR SEWAGE COLLECTION LINES. A MINIMUM VERTICAL CLEARANCE OF 18 INCHES MUST BE MAINTAINED BETWEEN RECLAIMED WATER LINES AND POTABLE WATER MAINS OR SEWAGE COLLECTION LINES. AT CROSSINGS, PROVISIONS OF FAC RULE 62-604 AND "RECOMMENDED STANDARDS FOR WATER WORKS" (TEN STATES STANDARDS) LATEST EDITION, SHALL APPLY.

LOCATION MAP



LEGEND

- DOUBLE SANITARY SERVICE WITH CLEANOUT
- SINGLE SANITARY SERVICE WITH CLEANOUT
- DOUBLE WATER SERVICE
- SINGLE WATER SERVICE
- RESILIENT SEAT GATE VALVE (RSGV)
- FIRE HYDRANT
- SANITARY MANHOLE
- EXISTING POWER POLE

UTILITY EASEMENTS
O.R.B. _____, PG. _____

UTILITY EASEMENTS
P.B. 15, PG. 76

LEGEND

- *RECORD INFORMATION*
- *TOP OF WATER MAIN RECORD ELEVATION*
- *COVER OVER WATER & FORCE MAIN*
- *RECORD LOCATION OF FIRE HYDRANT*
- *RECORD LOCATION OF VALVE*
- *DSS DOUBLE SANITARY SERVICE*
- *SSS SINGLE SANITARY SERVICE*
- *DWS DOUBLE WATER SERVICE*
- *SWS SINGLE WATER SERVICE*

RECORD DRAWING

SIGNED 7/4/03 DATE
STUART H. CUNNINGHAM PSM., NO. 3896

No.	Date	By	Revision Description
9	2-16-05	EMK	ADD WATER MAIN RECORD INFO
8	8-27-04	EMK	ADD WATER MAIN RECORD INFO
7	5-11-04	EMK	ADD WATER MAIN RECORD INFO
6	4-28-04	EMK	ADD WATER MAIN RECORD INFO
5	4-23-04	EMK	ADD WATER MAIN RECORD INFO
4	2-23-04	MAB	REVISE PER FDEP
3	2-23-04	EMK	REVISE PER FDEP
2	4-23-03	EMK	REVISE PAGE TO 30 SCALE
1	1-17-03	EMK	REVISE RIM ELEVATIONS

CUNNINGHAM & DURRANCE
CONSULTING ENGINEERS INC.
400 EXECUTIVE CENTER DRIVE, SUITE 108
WEST PALM BEACH, FLORIDA, 33401
(561) 689-5455 FAX(561) 640-7815
(L.B. & E.B., No. 4502)

COVE ISLE P.U.D.

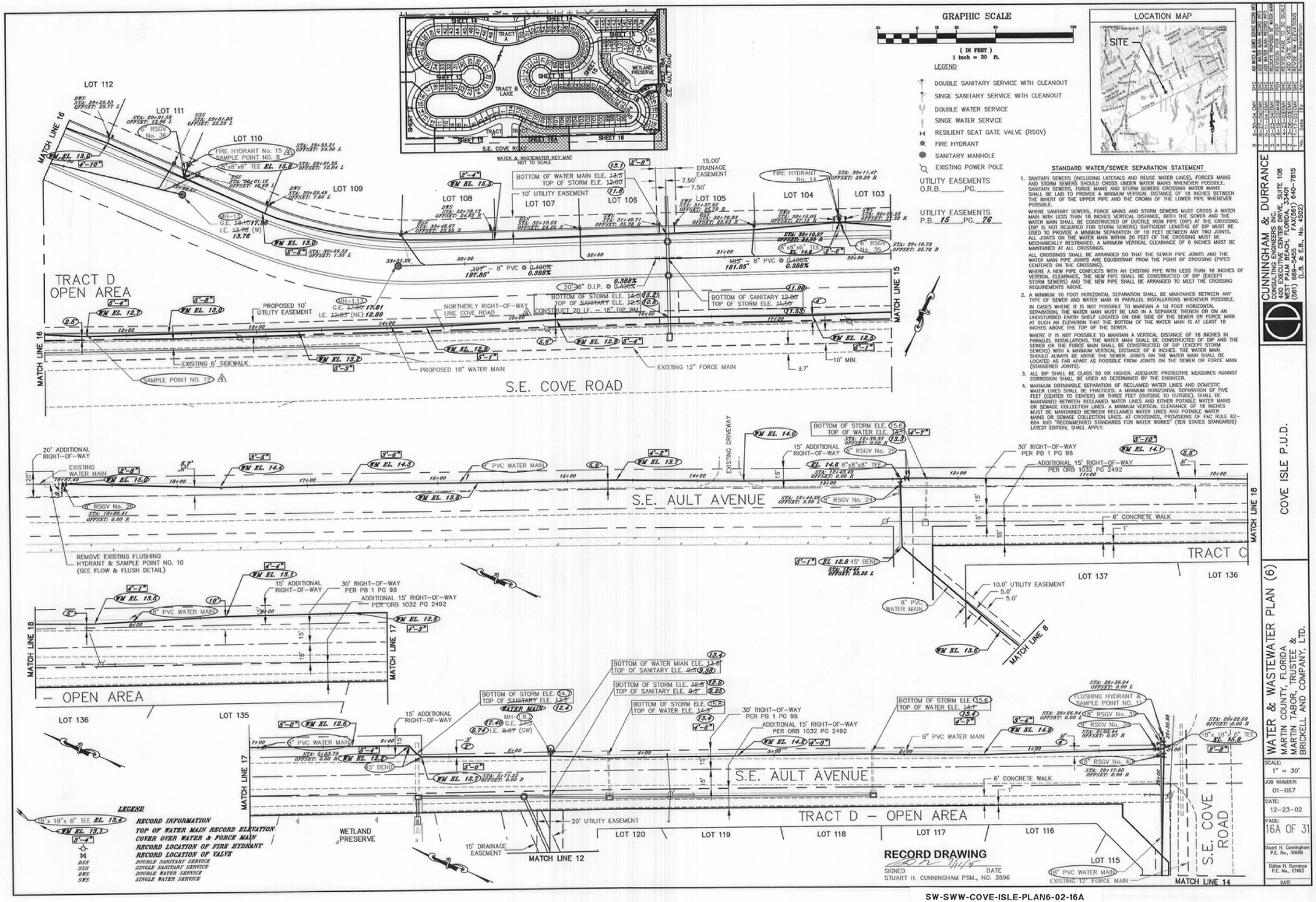
WATER & WASTEWATER PLAN (1)
MARTIN COUNTY, FLORIDA
MARTIN TABOR, TRUSTEE &
BRICKELL AND COMPANY, LTD.

SCALE: 1" = 30'
JOB NUMBER: 01-067
DATE: 12-23-02
PAGE: 12 OF 31

Stuart H. Cunningham P.E. No., 30689
Dallas H. Durrance P.E. No., 17463
DATE

SW-SWW-COVE-ISLE-PLAN1-02-012

"Land Projects, Rel. 05.00 Build 05.00.00 (2003.01.01) - (c) 1987-2003 Autodesk, Inc. All Rights Reserved." C:\Projects\01-067\Dwg\SWW\COVE-ISLE-PLAN1-02-012.dwg, 1:1, 1/28/2003 11:08:38 AM



No.	Date	By	Revision Description
8	8-30-04	DMK	SHC	60 WATER & SEWER SERVICE STUBS AND
7	8-27-04	DMK	SHC	400 WATER MAIN REVISED INFO
6	8-11-04	DMK	SHC	400 WATER MAIN REVISED INFO
5	6-23-04	DMK	SHC	REVISED WATER MAIN
4	6-23-04	DMK	SHC	REVISE PAGE TO 30 SCALE
3	4-26-04	DMK	SHC	REVISE PAGE TO 50 SCALE
2	3-16-04	DMK	SHC	400 GATE VALVES
1	2-5-04	DMK	SHC	400 GATE VALVES

CUNNINGHAM & DURRANCE
CONSULTING ENGINEERS INC.
400 EXECUTIVE CENTER DRIVE, SUITE 108
WEST PALM BEACH, FLORIDA 33401
(561) 689-5405 FAX(561) 640-7815
(L.B. & E.B., No. 4502)

COVE ISLE P.U.D.

WATER & WASTEWATER PLAN (6)
MARTIN COUNTY, FLORIDA
MARTIN TABOR, TRUSTEE &
BRICKELL AND COMPANY, LTD.

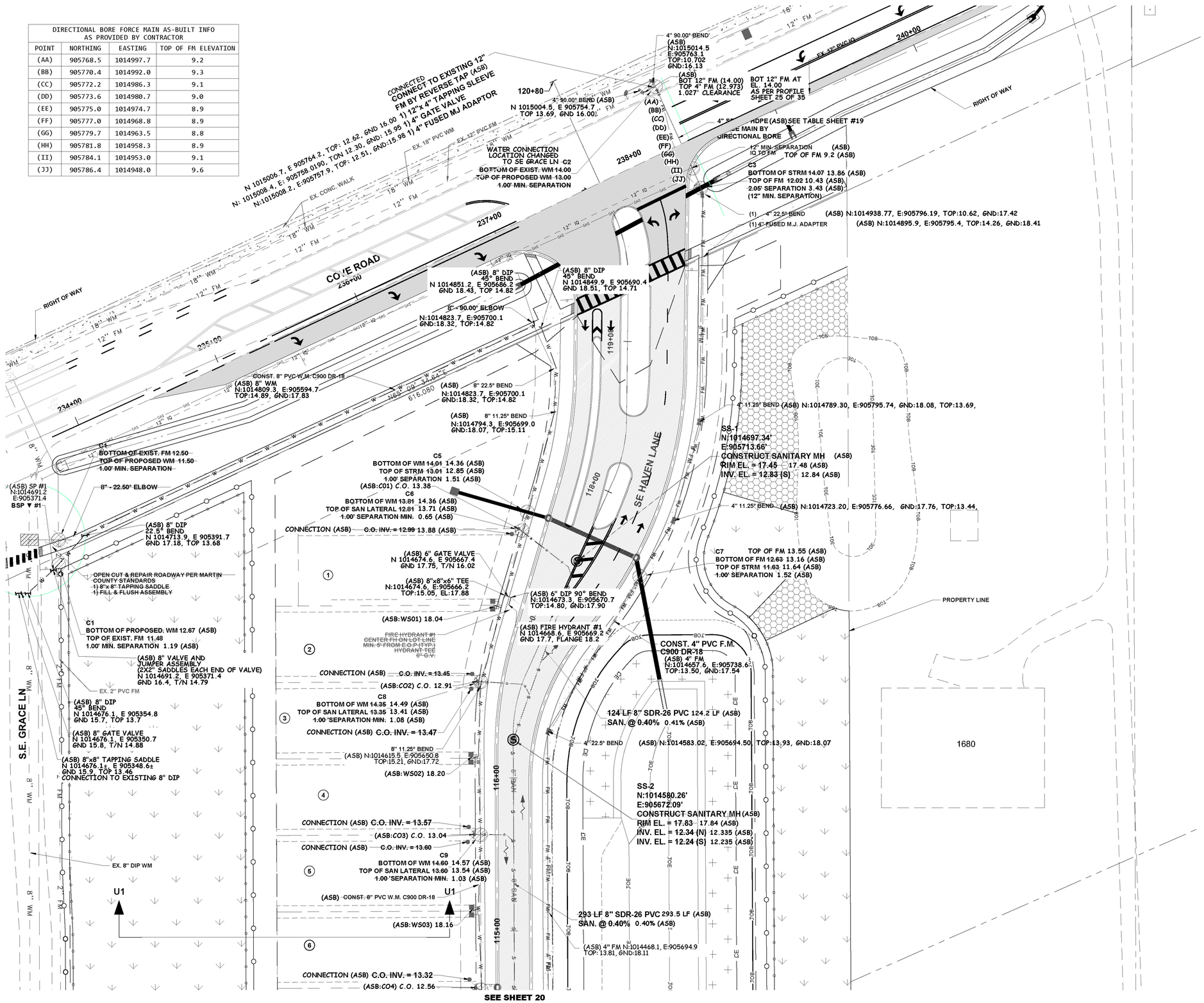
SCALE: 1" = 30'
JOB NUMBER: 01-067
DATE: 12-23-02
PAGE: 16A OF 31

Stuart H. Cunningham P.E. No., 30689
Dallas H. Durrance P.E. No., 17463
DATE

SW-SWW-COVE-ISLE-PLAN6-02-16A

WATER & SEWER AS-BUILT

DIRECTIONAL BORE FORCE MAIN AS-BUILT INFO AS PROVIDED BY CONTRACTOR			
POINT	NORTHING	EASTING	TOP OF FM ELEVATION
(AA)	905768.5	1014997.7	9.2
(BB)	905770.4	1014992.0	9.3
(CC)	905772.2	1014986.3	9.1
(DD)	905773.6	1014980.7	9.0
(EE)	905775.0	1014974.7	8.9
(FF)	905777.0	1014968.8	8.9
(GG)	905779.7	1014963.5	8.8
(HH)	905781.8	1014958.3	8.9
(II)	905784.1	1014953.0	9.1
(JJ)	905786.4	1014948.0	9.6



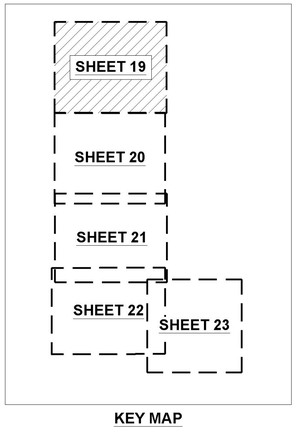
NORTH

15 0 15 30

SCALE: 1" = 30'

LEGEND

- FIRE HYDRANT
- REDUCER
- GATE VALVE
- FIRE DEPARTMENT CONNECTION (FDC)
- PVC PIPE
- SANITARY MANHOLE
- SINGLE WATER SERVICE
- DUAL WATER SERVICE
- SINGLE SANITARY SERVICE
- DUAL SANITARY SERVICE
- UTILITY CONFLICT
- PROPOSED STORM DRAINAGE
- 8" SAN — PROPOSED 8" SANITARY
- PROPOSED 8" WATER MAIN
- PROPOSED 6" WATER MAIN
- 4" FM — PROPOSED 4" FORCE MAIN
- BSP ▼ # — BACTERIOLOGICAL SAMPLE POINT
- W — W — AS-BUILT WATER MAIN
- S — S — AS-BUILT SANITARY LINE
- FM — FM — AS-BUILT FORCE MAIN



KEY MAP

PRESERVE AREAS ARE NOT TO BE ALTERED WITHOUT WRITTEN PERMISSION OF THE MARTIN COUNTY BOARD OF COUNTY COMMISSIONERS

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CAPTEC Engineering, Inc.
Civil Engineering Professionals
• 301 N.W. Flagler Ave. Stuart, Florida 34994
Phone: (772) 692-4344
Fax: (772) 692-4341
Engineering Business No. EB-0007657

DATE:	03/31/2023
DRAWN BY:	RC
DESIGNED BY:	ECT
CHECKED BY:	SPM
PROJECT No.:	2015
HORZ. SCALE:	1" = 30'
VERT. SCALE:	
CADD FILE:	C:\Users\Public\Documents\Civil 3D Projects\2015 Cove Royale\Civil 3D Drawings\cos-built\2015 Utl (02.12.2024 note)_04.08.24_recover.dwg

NO.	DATE	BY	REVISIONS
1	03/31/23	RC	APPROVED FOR CONSTRUCTION

SCALE VERIFICATION
0 1
SOLID BAR IS EQUAL TO ONE INCH ON ORIGINAL DRAWING, ADJUST ALL SCALED DIMENSIONS ACCORDINGLY

COVE ROYALE PUD
MARTIN COUNTY, FLORIDA

UTILITY PLAN

Joseph W. Capra
301 N.W. Flagler Ave.
Stuart, Florida 34994
P.E. No. 37628

Printed Date:

JOB No.: 2015
SHEET 19 OF 35

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T:\Drawings\Civil 3D Drawings\cos-built_04 17 2023 new cad and pdf\Cove Royale DRAFT AFC CAD Files 2023-0331\cos-built 2015 Utl (02.12.2024 note)_04.08.24_recover.dwg Apr 08, 2024 - 12:22pm

MATCH LINE (SEE SHEET 3)

MONTEGO DRIVE

PROPOSED WESTERLY LAKE

MARTINIQUE DRIVE

S 68° 51' 52" W

N 68° 11' 51" E

SCALE: 1" = 40'

LEGEND

10.0 — INDICATES PROPOSED SANITARY MANHOLE W/ INVERT ELEVATION

STA. 120+90
CONST. SAN. M.H. S-13
TOP EL. 19.35

CONST. 6"W
150' R. (MIN.)

STA. 123+50 (26' LT.)
CONST. F.H. ASSEMBLY

STA. 124+45
CONST. SAN. M.H. S-14
TOP EL. 19.90

CONST. 324'~8" PVC @ 0.40%

STA. 129+15
CONST. SAN. M.H. S-8
TOP EL. 19.58

CONST. 145'~8" PVC @ 0.40%
0.42%

8"-10' EL.
CONST. 6"W TO CLEAR INLET
8"-45' EL.

CONST. 75'~8" PVC @ 0.40%
SEE SHEET

STA. 127+95 (26' LT.)
CONST. F.H. ASSEMBLY

STA. 127+70
CONST. SAN. M.H. S-9
TOP EL. 19.02
(3862)

NOTE
CONST. 8" PVC SAN. SEWER UNDER STORM SEWER

CONST. 6"W
150' R. (MIN.)
6" G.V.
6"x6" RED.
6"x6" T
6" G.V.

STA. 134+95
CONST. SAN. M.H. S-4
TOP EL. 19.76
(3892)

CONST. 125'~8" PVC @ 0.40%
0.38%

CONST. 6" F.M.

CONST. 6" F.M. TO CLEAR FIRE HYD.

STA. 100+25 (41' LT.)
CONST. F.H. ASSEMBLY

8"x12" INC.

CONST. 8"W

STA. 137+21
CONST. SAN. M.H. S-3
TOP EL. 19.09
(3933)

CONST. 201'~8" PVC @ 0.40%
0.43%

STA. 132+80
CONST. SAN. M.H. S-6
TOP EL. 19.00
(3890)

CONST. 245'~8" PVC @ 0.40%
0.42%

CONST. SAN. M.H. S-5
TOP EL. 19.11

CONST. F.H. ASSEMBLY

CONST. SAN. UNDER STORM

CONST. WATER UNDER SAN.

CONST. 81'~8" PVC @ 0.40%
0.37%

STA. 132+05
CONST. SAN. M.H. S-7
TOP EL. 19.31
(3829)

CONST. 6" F.M.

CONST. 8"W

CONST. 8" PVC @ 0.40%

EXISTING WET PRAIRIE
(TO REMAIN UNDISTURBED)

15' UTILITY EASEMENT

50' ADDIT. R/W

F.F.E. 21.0 (5, 6, 7, 8, 9, 10, 12, 14, 15, 16, 18)
F.F.E. 20.75 (11, 17)
F.F.E. 21.25 (13)

"RECORD DRAWING"

MATCH LINE (SEE SHEET 5)

NO	REVISIONS	DATE	BY
6	REVISE "RECORD DRAWING" INFO.	6-1-87	GMB
5	REVISE COVE RD. ADDIT. R/W TO 50' & PARKING BETWEEN BLDGS. 12 & 16; ADD SITE F.M. TO U"	OCT. 12, 1984	GMB
4	ADDED BLDG F.F.E. & SAN. SERVICE INV. EL.	SEPT. 12, 1984	GMB
3	INCREASE F.M. & WATER MAIN SIZE AT PROJ. ENTR.	JAN. 18, 1983	GMB
1	DELETE SHEET NO. 12	NOV. 5, 1983	G.M.B.

SEAL

SANITARY & WATER PLAN

MONTEGO COVE

MARTIN COUNTY FLORIDA

SCALE 1" = 40'
DESIGNED BY G.M.B.
DRAWN BY J.G.
CHECKED BY G.M.B.

HUTCHEON ENGINEERS
INCORPORATED
CIVIL ENGINEERS & SURVEYORS
BELLE GLADE WEST PALM BEACH, STUART

DATE SEPT. 1982
FILE & DRAWING NO. 80-7-5008.00
SHEET 4 OF 11

SW-SWW-MONTEGO-COVE-87-004

STA. 200+75.24 (40' RT.)
CONST. LIFT STATION
TOP EL. 19.5
W.INV.EL. 7.71
BOTT. EL. 3.0
(3824)

2" WATER SERVICE W/ HOSE BIBB AND VAC. BREAKER

CABANA

POOL

F.F.E. 21.0
9

SAMPLE PT. #2

STA. 300+80 (1992)
CONST. SAN. M.H. S-25
TOP EL. ~~19.32~~ 19.34

STA. 300+30 (26' LT.)
CONST. F.H. ASSEMBLY

CONST. 165'~8" PVC @ 0.40% 0.74

CONST. 8" W.

CONST. 8" PVC @ 0.40%

0.41%

202 MARTINIQUE TERRACE

CONST. 8" PVC @ 0.40%

F.F.E. 21.0
32

F.F.E. 21.25
31

SAMPLE PT. #7

CONST. SAN. M.H. S-26
TOP EL. ~~19.97~~ 20.01
(1989)

F.F.E. 21.0
30

CONST. SAN SEWER UNDER STORM SEWER

CONST. 260'~8" PVC @ 0.40% 0.42%

327 MARTINIQUE CIRCLE

CONST. 6"W OVER STORM SEWER AND TO CLEAR INLET

STA. 323+50 (4' LT.)
CONST. SAN. M.H. S-19
TOP EL. ~~19.86~~ 19.97
(3826)

6" GV. EX 8" TEE W/ 2-8"x6" RED. 6" GV. 6"~22½° EL.

STA. 324+00 (19.88)
CONST. SAN. M.H. S-18
TOP EL. ~~19.55~~ 19.48

CONST. 105'~8" PVC @ 0.40% 0.39%

STA. 323+13
CONST. SAN. M.H. S-17
TOP EL. ~~19.86~~ 19.88
(1990)

STA. 324+50 (26' RT.)
CONST. F.H. ASSEMBLY

6"~22½° EL.

F.F.E. 20.75
28

F.F.E. 21.0
29

STA. 323+50 (26' LT.)
CONST. F.H. ASSEMBLY

CONST. WALL SEWER UNDER STORM SEWER

CONST. 187'~8" PVC @ 0.40% 0.41%

STA. 321+20
CONST. SAN. M.H. (EROD) S-16
TOP EL. ~~19.75~~ 19.79
(1991)

CONST. 6"W 150' R. (MIN.)

SAMPLE PT. #6

CONST. 6"W OVER STORM SEWER INLET

6"~45° EL.

F.F.E. 21.0
20

STA. 302+85
CONST. SAN. M.H. S-24
TOP EL. ~~19.85~~ 19.96
(1993)

CONST. 6"W 150' R. (MIN.)

CONST. 445'~8" PVC @ 0.40% 0.48

320'

F.F.E. 21.0
21

F.F.E. 21.0
27

SAMPLE PT. #5

PROPOSED EASTERLY LAKE

STA. 305+15 (26' LT.)
CONST. F.H. ASSEMBLY

MATCH LINE (SEE SHEET 4)

MATCH LINE (SEE SHEET 6)

EXISTING WET PRAIRIE (TO REMAIN UNDISTURBED)

15' UTILITY EASEMENT

50' ADDIT. R/W

N 00° 11' 51" E - 1429.90'

N 77° 58' 24" W - 209.51'

N 77° 58' 24" W - 124.53'

N 00° 11' 51" E - 449.28'

SCALE: 1" = 40'

N

LEGEND

10.0 — INDICATES PROPOSED SANITARY MANHOLE W/ INVERT ELEVATION

"RECORD DRAWING"

NO	REVISIONS	DATE	BY
1	ADD "RECORD DRAWING" INFORMATION	MAY 28, 1987	GMB
2	ADD "RECORD DRAWING" INFORMATION	MAY 12, 1986	GMB
3	REVISE POOL & CABANA FOOTPRINT & WATER LINE, ADD SEWER LINE	JAN. 10, 1985	GMB
4	REVISE COVE RD. ADDIT. R/W TO 50'	OCT. 12, 1984	GMB
5	ADDED BLDG. F.F.E. & SAN SERVICE INV. EL.	SEPT 12, 1984	GMB
6	ADD NOTE - F.M. UNDER WATER MAIN 11/28/83		GMB
1	DELETE SHEET No. 12	Nov. 5, 1985	GMB

2 ADD "RECORD DRAWING" INFO. 6-1-87 GMB

SEAL

SANITARY & WATER PLAN

MONTEGO COVE

MARTIN COUNTY — FLORIDA

SCALE 1" = 40'
DESIGNED BY G.M.B.
DRAWN BY J.G.
CHECKED BY G.M.B.

HUTCHEON ENGINEERS
INCORPORATED
CIVIL ENGINEERS & SURVEYORS
BELLE GLADE — WEST PALM BEACH — STUART

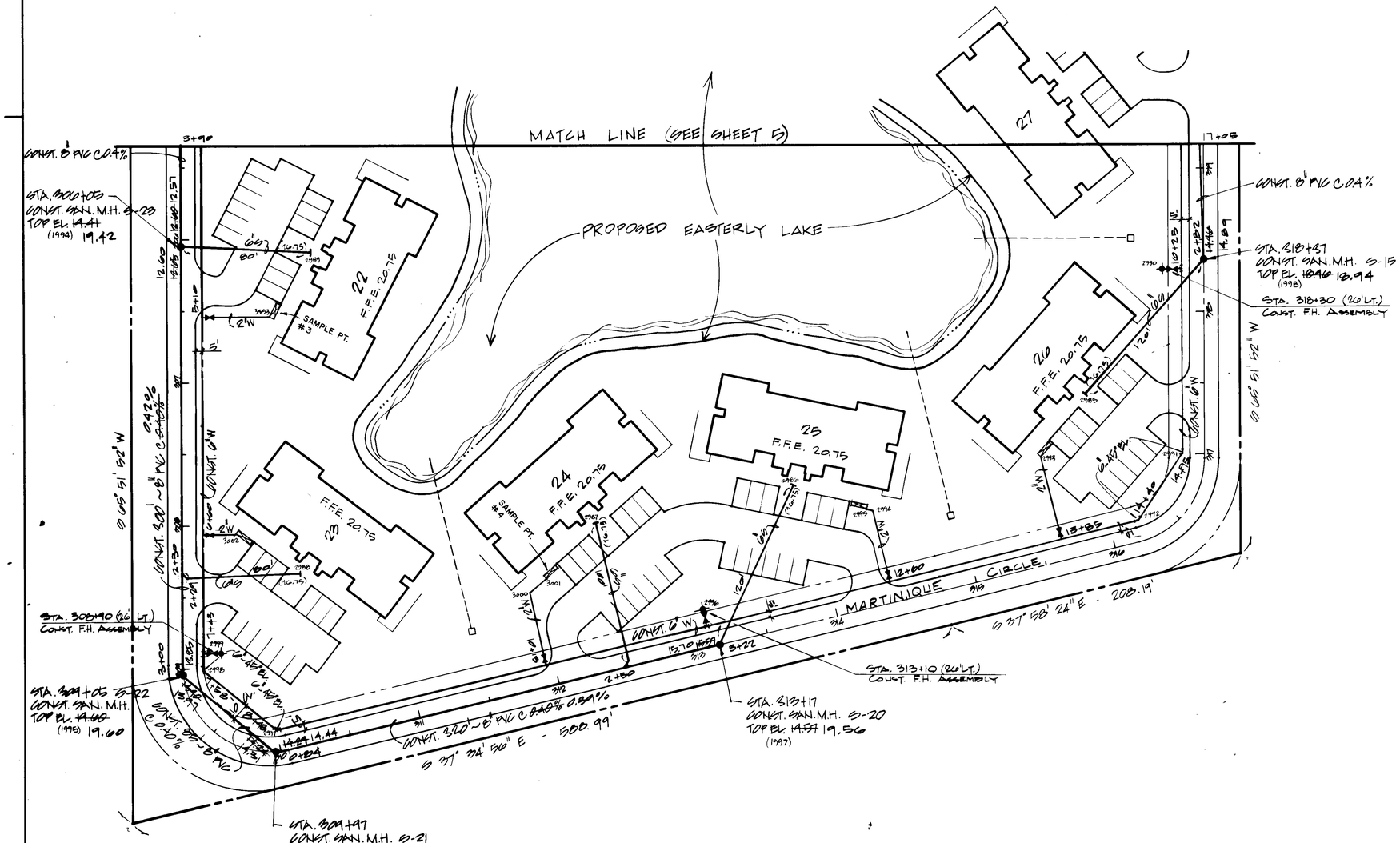
DATE SEPT. 1983
FILE & DRAWING NO. 88-3-3008.00
SHEET 5 OF 11

SW-SWW-MONTEGO-COVE-87-005

SCALE: 1" = 40'

LEGEND

10.0 — INDICATES PROPOSED SANITARY MANHOLE W/ INVERT ELEVATION



"RECORD DRAWING"

NO	REVISIONS	DATE	BY
4	ADD "RECORD DRAWING" INFERNATION	6-1-87	GMB
3	ADD "RECORD DRAWING" INFERNATION	MAY 28, 1987	GMB
2	ADDED BLDG. F.F.E. & SAN. SERVICE INV. EL.	SEPT 12, 1984	GMB
1	DELETE SHEET NO. 12	NOV. 8, 1983	GMB

SEAL

SANITARY & WATER PLAN

MONTEGO COVE

MARTIN COUNTY — FLORIDA

SCALE	1" = 40'
DESIGNED BY	G.M.B.
DRAWN BY	J.E.
CHECKED BY	G.M.B.
DATE	SEPT. 1983
FILE & DRAWING NO	83-9-3008-00
SHEET	6 OF 11

HUTCHEON ENGINEERS
INCORPORATED
CIVIL ENGINEERS & SURVEYORS
BELLE GLADE — WEST PALM BEACH — STUART

SW-SWW-MONTEGO-COVE-87-006

STA. 10+00

15

CONST. (1) JOINT OF 8" D.I.P. BEYOND 90° FITTING

CONST. 6" F.M.

CONST. 12" W

STA. 18+50 (10' Lt.) F.H. ASSEMBLY

12" WATER MAIN TO BE (3) D.I.P.

20

APPROXIMATE LIMITS OF EXISTING POND

EXIST 15" CMP.

STA. 23+50 (10' Lt.) F.H. ASSEMBLY

SCALE: 1" = 80'

MATCH LINE STA. 25+00

COVE ROAD

CONST. 76'~12" D.I.P.

CONST. 88'~6" D.I.P.

INV. EL. 100.0

19"x30" RCP

INV. EL. 100.0

INV. EL. 100

INV. EL. 100

15' UTILITY EASEMENT

MARTINIQUE DRIVE

8" W

6" F.M.

BIKE PATH

15' UTILITY EASEMENT

WEST TO MONTEGO COVE

EAST TO MONTEGO COVE

EXISTING WET PRAIRIE (TO REMAIN UNDISTURBED)

NOTE:

THE LOCATION OF THE EXISTING UTILITIES AS SHOWN ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE UTILITY COMPANIES IN CONFIRMING THE LOCATION, BOTH HORIZONTAL AND VERTICAL OF ALL EXISTING UTILITIES IN THE AREA OF CONSTRUCTION.

STA. 10+00
ELEV. 19.28

STA. 25+00 MATCH LINE
ELEV. 19.28

P.V.I.

EXIST. GRADE LINE

"RECORD DRAWING"

25 20 15 10 5

10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

OFF - SITE UTILITIES

NO	REVISIONS	DATE	BY
5	REV. COVE RD ADJT. R/W TO 80'. DECREASE F.M. FROM 8" TO 6"	OCT. 12, 1984	GMB
4	INCREASE F.M. SIZE FROM 6" TO 8" & INCREASE WATER MAIN SIZE FROM 8" TO 12"	11/18/84	G.M.B.
3	REVISE CONC. ENCASED WATER MAIN TO D.I.P.	11/28/83	GMB
2	DELETE SHEET NO. 12	NOV. 5, 1983	GMB
1	ADD FIRE HYDRANTS	NOV. 3, 1983	GMB

SEAL

MONTEGO COVE

SCALE HOR. 1" = 50' VER. 1" = 5'
DESIGNED BY G.M.B.
DRAWN BY J.G.
CHECKED BY G.M.B.

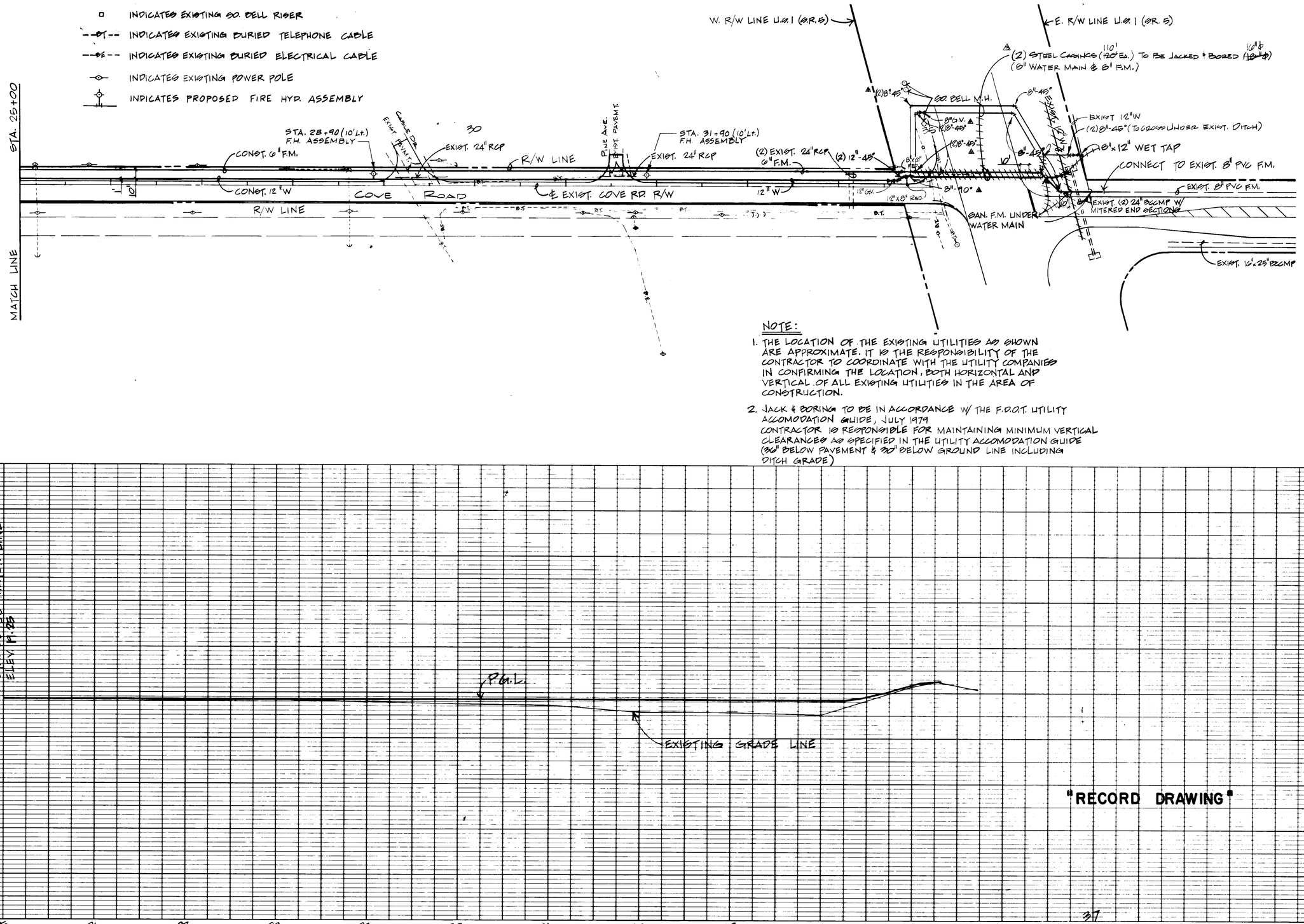
DATE SEPT. 1983
FILE & DRAWING NO. 87-7-2008-00
SHEET 7 OF 11

HUTCHEON ENGINEERS
INCORPORATED
CIVIL ENGINEERS & SURVEYORS
WEST PALM BEACH BELLE GLADE

SW-SWW-MONTEGO-COVE-87-007

LEGEND

- INDICATES EXISTING POWER POLE & GUY WIRE
- INDICATES EXISTING SO. BELL RISER
- INDICATES EXISTING BURIED TELEPHONE CABLE
- INDICATES EXISTING BURIED ELECTRICAL CABLE
- INDICATES EXISTING POWER POLE
- INDICATES PROPOSED FIRE HYD. ASSEMBLY



NOTE:

1. THE LOCATION OF THE EXISTING UTILITIES AS SHOWN ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE UTILITY COMPANIES IN CONFIRMING THE LOCATION, BOTH HORIZONTAL AND VERTICAL OF ALL EXISTING UTILITIES IN THE AREA OF CONSTRUCTION.
2. JACK & BORING TO BE IN ACCORDANCE W/ THE F.D.O.T. UTILITY ACCOMODATION GUIDE, JULY 1979
CONTRACTOR IS RESPONSIBLE FOR MAINTAINING MINIMUM VERTICAL CLEARANCES AS SPECIFIED IN THE UTILITY ACCOMODATION GUIDE (36" BELOW PAVEMENT & 30" BELOW GROUND LINE INCLUDING DITCH GRADE)

"RECORD DRAWING"

NO.	REVISIONS	DATE	BY
4	ADD F.M. & WATER MAIN FITTING @ U.S. No. 1 AS INSTALLED	1/11/85	GMB
3	REVISE LOCATION OF STEEL CASINGS, WATER MAIN & F.M. @ U.S. 1	1/10/85	G.M.B.
2	DECREASE F.M. FROM 8" TO 6" & REVISE WATER & F.M. PIPING @ U.S. 1	OCT. 12, 1984	GMB
1	INCREASE F.M. SIZE FROM 6" TO 8" & INCREASE WATER MAIN SIZE FROM 8" TO 12" AND INCREASE STEEL CASING SIZES	JAN. 18, 1984	G.M.B.
0	DELETE SHEET No. 12	NOV. 5, 1983	GMB
	ADD FIRE HYDRANTS	NOV. 3, 1983	GMB

SEAL

OFF - SITE UTILITIES

MONTEGO COVE

SCALE HOR. 1" = 50' VER. 1" = 5'
DESIGNED BY G.M.B.
DRAWN BY J.B.
CHECKED BY G.M.B.

HUTCHEON ENGINEERS
INCORPORATED
CIVIL ENGINEERS & SURVEYORS
WEST PALM BEACH BELLE GLADE

DATE SEPT. 1983
FILE & DRAWING NO 83-3-2008-00
SHEET 8 OF 11

SW-SWW-MONTEGO-COVE-87-008

ASBUILT DRAWING

ASBUILT LEGEND
(0.00) - ASBUILT DATA

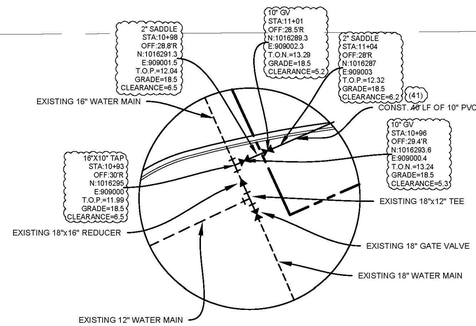
RECORD DRAWING SURVEY NOTES:
1. BENCHMARK ORIGIN: MARTIN COUNTY/M1253, ELEVATION 15.21 FEET, RELATIVE TO THE N.A.V.D. DATUM OF 1988.
2. ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
3. COORDINATES SHOWN ARE IN U.S. SURVEY FEET, RELATIVE TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (1990 ADJUSTMENT).

DAVID P. LINDLEY, P.L.S.
REG. LAND SURVEYOR, #5005
STATE OF FLORIDA, LB #3591

Digitally signed by David Lindley
Date: 2024.03.08 10:15:56 -05'00'
Adobe Acrobat version: 2023.008.20555

CAULFIELD & WHEELER, INC.
7900 GLADES RD - SUITE 100
BOCA RATON, FLORIDA 33434
(561)392-1991
DATE: 01/16/2024

WATER MAIN CONNECTION DETAIL
SCALE: 1" - 15'



0 30
(IN FEET)
1 inch = 30 ft.

LEGEND

- PROPOSED DRAINAGE MANHOLE
- CATCH BASIN INLET
- CURB INLET
- PROPOSED SANITARY MANHOLE
- DOUBLE SANITARY SERVICE
- SINGLE SANITARY SERVICE
- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE
- EXISTING CONCRETE
- PROPOSED CONCRETE
- PROPOSED ASPHALT
- PRESERVE AREA MARKER
- EXISTING WETLANDS
- WETLAND BUFFER
- UPLAND PRESERVE AREA

VERTICAL DATUM NOTE:

ALL ELEVATIONS SHOWN HERE REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 NAVD88 UNLESS OTHERWISE NOTED.
NGVD29 = NAVD88 + 1.475'

NOTE TO CONTRACTOR:
1. ALL PIPE ELEVATIONS SHALL BE FIELD VERIFIED BEFORE COMMENCEMENT.
2. ALL WATER MAINS 4"-12" IN SIZE SHALL BE CONSTRUCTED USING PVC DR-18.

MARTIN COUNTY EASEMENT NOTES:

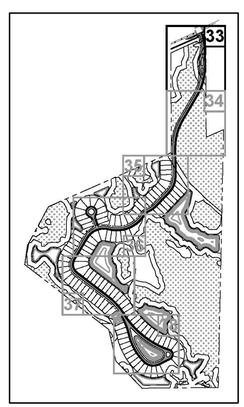
EASEMENTS FOR WATER, RECLAIMED AND SEWAGE MAINS AND APPURTENANCES SHALL BE PROVIDED WHEN THE WATER, RECLAIMED AND SEWAGE FACILITIES ARE INSTALLED OUTSIDE OF ROAD RIGHTS-OF-WAY UNDER MARTIN COUNTY CONTROL. WATER MAINS 8" OR LESS SHALL BE INSTALLED IN A 10' DEDICATED EASEMENT CENTERED ON THE PIPE. SEWAGE FORCE MAINS SHALL BE INSTALLED IN A 15' DEDICATED EASEMENT CENTERED ON THE PIPE. GRAVITY SEWER MAINS WITH 2.5' TO 10' OF COVER SHALL BE INSTALLED IN A 20' DEDICATED EASEMENT CENTERED ON THE PIPE.

*CONNECTION TO EXISTING WATER MAIN AND FORCE MAIN SHALL NOT BE MADE UNTIL APPROVED BY MARTIN COUNTY.

ALL FIRE HYDRANTS TO BE INSTALLED 5' TO 15' FROM EDGE OF PAVEMENT (EOP).

UTILITY CONFLICTS:

1. STA:10+92.13 OFF:3.86' 16" DIP WM CROSSES OVER 4" FM (MAINTAIN 12" SEPARATION) BOTTOM OF 16" DIP WM = ~~12.06~~ (12.06) TOP OF 4" FM = ~~14.06~~ (9.69) FG = ~~18.60~~ (18.8)
2. STA:10+43.02 OFF:25.06' 15" STORM CROSSES OVER 4" FM (MAINTAIN 12" SEPARATION) BOTTOM OF 15" STORM = ~~14.81~~ (14.82) TOP OF 4" FM = ~~12.75~~ (12.72) FG = ~~18.60~~ (18.1)
3. STA:10+43.93 OFF:40.87' 15" STORM CROSSES OVER 12" WM (MAINTAIN 12" SEPARATION) BOTTOM OF 15" STORM = ~~14.81~~ (14.82) TOP OF 12" WM = ~~13.75~~ (13.75) FG = ~~18.10~~ (18.1)
4. STA:11+95.34 OFF:19.84' 10" WM CROSSES OVER 15" STORM (MAINTAIN 12" SEPARATION) TOP OF 15" STORM = ~~12.45~~ (12.43) BOTTOM OF 10" WM = ~~14.47~~ (13.45) FG = ~~18.90~~ (18.3)
5. STA:12+87.33 OFF:27.31' 10" WM CROSSES OVER 18" STORM (MAINTAIN 12" SEPARATION) TOP OF 18" STORM = ~~12.75~~ (12.70) BOTTOM OF 10" WM = ~~14.77~~ (14.20) FG = ~~18.60~~ (18.6)
6. STA:15+68.84 OFF:10.73' 10" WM CROSSES OVER 18" STORM (MAINTAIN 12" SEPARATION) TOP OF 18" STORM = ~~12.75~~ (12.72) BOTTOM OF 10" WM = ~~15.07~~ (14.85) FG = ~~18.90~~ (18.9)



OVERALL KEYSHEET

ENGINEERS ⊗ SURVEYORS
ENVIRONMENTAL
10250 VILLAGE PARKWAY
SUITE 201
PORT ST. LUCIE, FL 34987
772-462-2455
www.edc-inc.com
F.B.P.E. CERTIFICATE OF AUTHORIZATION 9935
L.B. CERTIFICATE OF AUTHORIZATION 8098

DESIGNED BY	JPW
DRAWN BY	HER
FILENAME	18-424 eng 10-5-2022 bsnl.dwg
LAYOUT	UTIL (33)
SCALE	AS SHOWN
DATE	6 SEPT 2022

DATE	REVISION COMMENTS
6/27/22	REVISED PER SITE PLAN COMMENTS
8/24/22	REVISED PER M.C. & SJTWD COMMENTS
11/18/22	ADDED SILT FENCING TO OFF-SITE ROADWAY
12/14/22	UPDATED UTILITIES ACCORDING TO MCU COMMENTS FOR NEW PHASE
6/27/22	ADDED MAINT. AND ROADWAY FOR FUTURE PHASE

DR HORTON
THE PRESERVE AT PARK TRACE
UTILITY PLAN

FLORIDA
MARTIN COUNTY

DAVID C. BAGGETT, P.E.(DATE)
#81375
10250 SW VILLAGE PARKWAY - SUITE 201
PORT SAINT LUCIE, FL 34987
772-462-2455

18-424

33 OF 54

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 EDC, INC. SHALL BE WITHOUT LIABILITY TO EDC, INC.

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Sunshine State One Call of Florida, Inc.

MATCHLINE C6

HORIZONTAL DIRECTIONAL DRILL (HDD)

NOTES:
1. CONTRACTOR TO VERIFY EXIST. UTILITY LOCATIONS PRIOR TO DIRECTIONAL DRILL.

2. PILOT BORE PLAN REQUIRED PRIOR TO PRE-CONSTRUCTION MEETING & MUST BE APPROVED BY M.C.U. & E.O.R.

3. THE HDD GUIDING SYSTEM SHALL ENSURE 6" ACCURACY VERTICAL & HORIZONTAL.

4. AS-BUILTS REQUIRED AT MINIMUM 50.0' AND @ EVERY CHANGE IN DIRECTION.

COVE ROAD CROSSINGS, SURVEYOR'S NOTES:

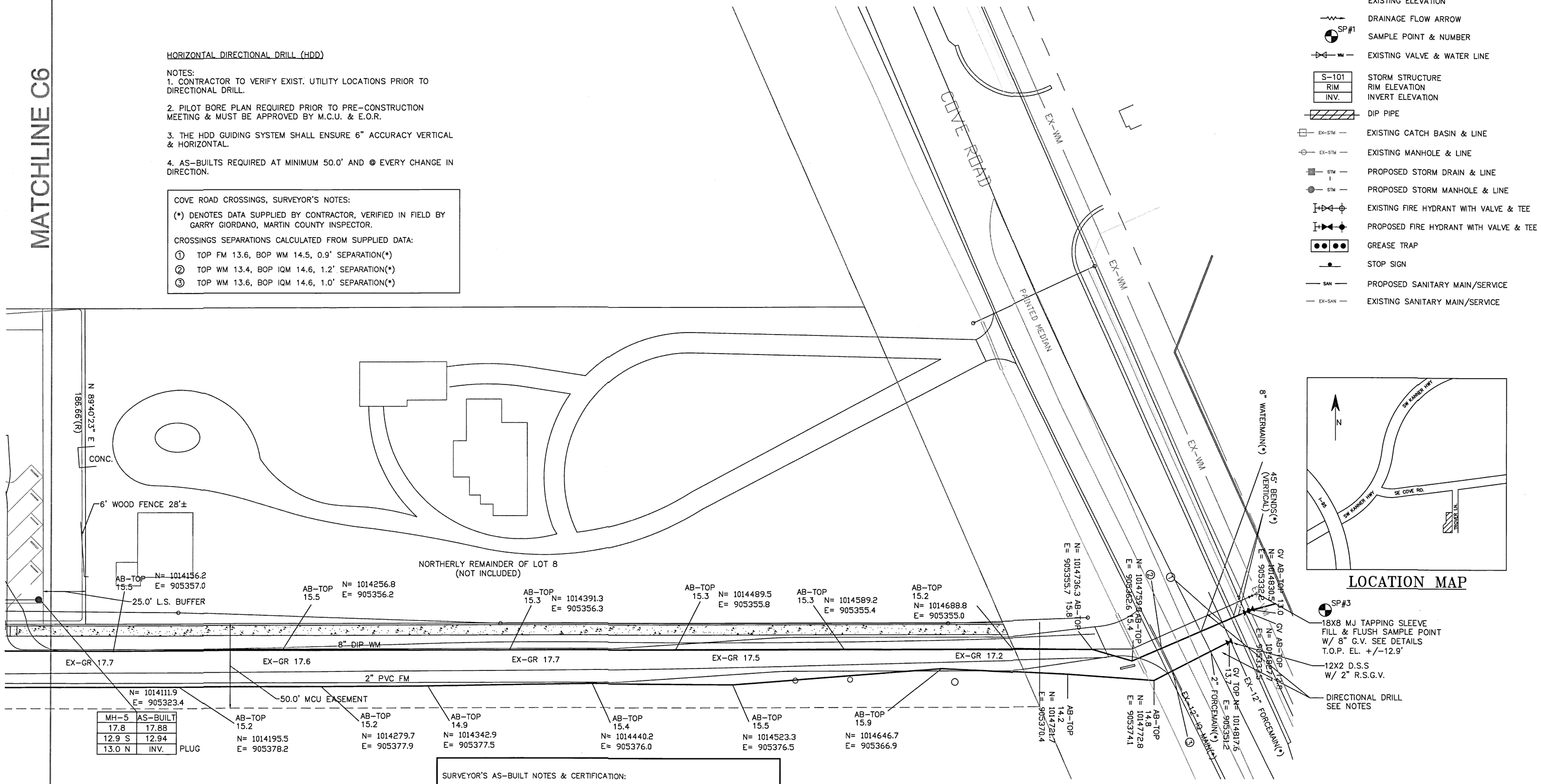
(*) DENOTES DATA SUPPLIED BY CONTRACTOR, VERIFIED IN FIELD BY GARRY GIORDANO, MARTIN COUNTY INSPECTOR.

CROSSINGS SEPARATIONS CALCULATED FROM SUPPLIED DATA:

① TOP FM 13.6, BOP WM 14.5, 0.9' SEPARATION(*)

② TOP WM 13.4, BOP IQM 14.6, 1.2' SEPARATION(*)

③ TOP WM 13.6, BOP IQM 14.6, 1.0' SEPARATION(*)



MH-5	AS-BUILT
17.8	17.88
12.9 S	12.94
13.0 N	INV.

PLUG

SCALE: 1"=30'

0 6 15 30 60 90

LEGEND

- PROPOSED ELEVATION
- EXISTING ELEVATION
- DRAINAGE FLOW ARROW
- SAMPLE POINT & NUMBER
- EXISTING VALVE & WATER LINE
- STORM STRUCTURE (S-101, RIM, INV.)
- RIM ELEVATION
- INVERT ELEVATION
- DIP PIPE
- EXISTING CATCH BASIN & LINE
- EXISTING MANHOLE & LINE
- PROPOSED STORM DRAIN & LINE
- PROPOSED STORM MANHOLE & LINE
- EXISTING FIRE HYDRANT WITH VALVE & TEE
- PROPOSED FIRE HYDRANT WITH VALVE & TEE
- GREASE TRAP
- STOP SIGN
- PROPOSED SANITARY MAIN/SERVICE
- EXISTING SANITARY MAIN/SERVICE

LOCATION MAP

AS-BUILT LEGEND:

EX-GR = EXISTING ADJACENT GRADE
EX-IQ MAIN = EXISTING IQ MAIN
EX-FORCEMAIN = EXISTING FORCEMAIN
AB-BOP = (BOTTOM OF PIPE ELEVATION)
AB-TOP = (TOP OF PIPE ELEVATION)

SURVEYOR'S AS-BUILT NOTES & CERTIFICATION:

1. DATE OF LAST DATA AQUISITION 4-16-11.
2. THIS AS-BUILT SKETCH DOES NOT REPRESENT A SKETCH OF BOUNDARY SURVEY.
3. THE SURVEYOR IS CERTIFYING TO THE AS-BUILT INFORMATION ONLY.
4. BENCHMARK REFERENCE: MARTIN COUNTY BENCHMARK "HANDLEBAR", ELEVATION 18.985', NGVD 1929 (DATUM), AS PUBLISHED ON COUNTY WEBSITE.
5. STATE PLANE COORDINATES AS SHOWN WERE ESTABLISHED BY GPS USING MONUMENTS "GCY D27" AND "GS 23" PER NGS DATA SHEETS AS PUBLISHED ON THE NGS/NOAA WEBSITE ACCESSED 4-14-08; COORDINATES ARE GRID; DATUM IS NAD 83 1990 ADJUSTMENT; FLORIDA EAST ZONE; US SURVEY FEET; COORDINATE SYSTEM 1983 STATE PLANE; TRANSVERSE MERCATOR PROJECTION.

RPB Consulting, Inc.
Land Surveying and Mapping
436 FLOTILLA ROAD, NORTH PALM BEACH, FLORIDA 33408
Phone: (561)841-7466 Email: rpbsurveying@gmail.com

RPB CONSULTING, INC.
LICENSED BUSINESS NO. 7022

12.13.11
FOR THE FIRM: DATE
ROBERT P. BLASZYK
PROFESSIONAL SURVEYOR & MAPPER
STATE OF FLORIDA REG. NO. 4133

SEAL

"UNLESS IT BEARS THE SIGNATURE AND RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER, THIS MAP/REPORT IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT VALID"

RECORD DRAWING
WATER AND SEWER PLAN
APRIL 2011
PAGE 3 OF 3

REV.	DESCRIPTION	APPV	DATE
4	SURVEYOR'S AS-BUILT REVS PER MARTIN COUNTY	RPB	11/14/11
3	SURVEYOR'S AS-BUILT REVS PER MARTIN COUNTY	RPB	2/12/11
2	SURVEYOR'S AS-BUILT	RPB	2/12/11
1	APPROVED FOR CONSTRUCTION	MS	4/28/10

REVISION NOTES

SMILEY & ASSOCIATES, INC.
1929 COMMERCE LANE, SUITE 2 - JUPITER, FLORIDA 33458
561-747-8335 - FAX: 561-747-5780
email - info@smiley-associates.com
EB # 8613

SAMARITAN HOUSE

FOR
SAMARITAN CENTER
MARTIN COUNTY

PRELIMINARY WATER AND SEWER PLAN

SEAL
MARK C. SMILEY, P.E.
FL. LICENSE #54664

DATE	1/11/08
DRT	JEA
DSG	AE
CHK	MCS
CADDWG	CADD-016

C7
SHEET TYPE

SHEET 7 OF 19

JOB # 07-016

SW-SWW-SAMARITAN-HOUSE-11-C7

FINANCIAL PROJECT ID	SHEET NO.
228801-1-56-01	U15



BETSY LINDSAY, INC.
SURVEYING AND MAPPING

208 N. US 1, # 8 TEQUESTA, FLORIDA 33469
(561)575-5275 (561)575-4324 FAX

AS BUILT SURVEY

JUNE 8, 2001	JOB NO. 01-20
JULY 6, 2001	JOB NO. 01-20
JULY 17, 2001	JOB NO. 01-20
JULY 27, 2001	JOB NO. 01-20
NOVEMBER 13, 2001	JOB NO. 01-20
DECEMBER 28, 2001	JOB NO. 01-20
JANUARY 15, 2002	JOB NO. 01-20

SCALE 1: 400

REVISIONS								
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
7-6-01	DJW	AS BUILT SURVEY (FORCE MAIN)	12-28-01	DJW	REVISE AS-BUILTS STA. 240 - 255+40			
6-15-01	DJW	EDIT AS BUILT SURVEY	11-13-01	DJW	AS-BUILTS STA. 240 - 250			
6-08-01	EAL	AS BUILT SURVEY	8-27-01	DJW	ADD CLEARANCE DATA AT STORM DRAIN			
12-06-00	JWC	BID SET ISSUED	7-17-01	DJW	REVISE AS BUILT SURVEY (FORCE MAIN)	01-15-02	DJW	REVISE DRAWING

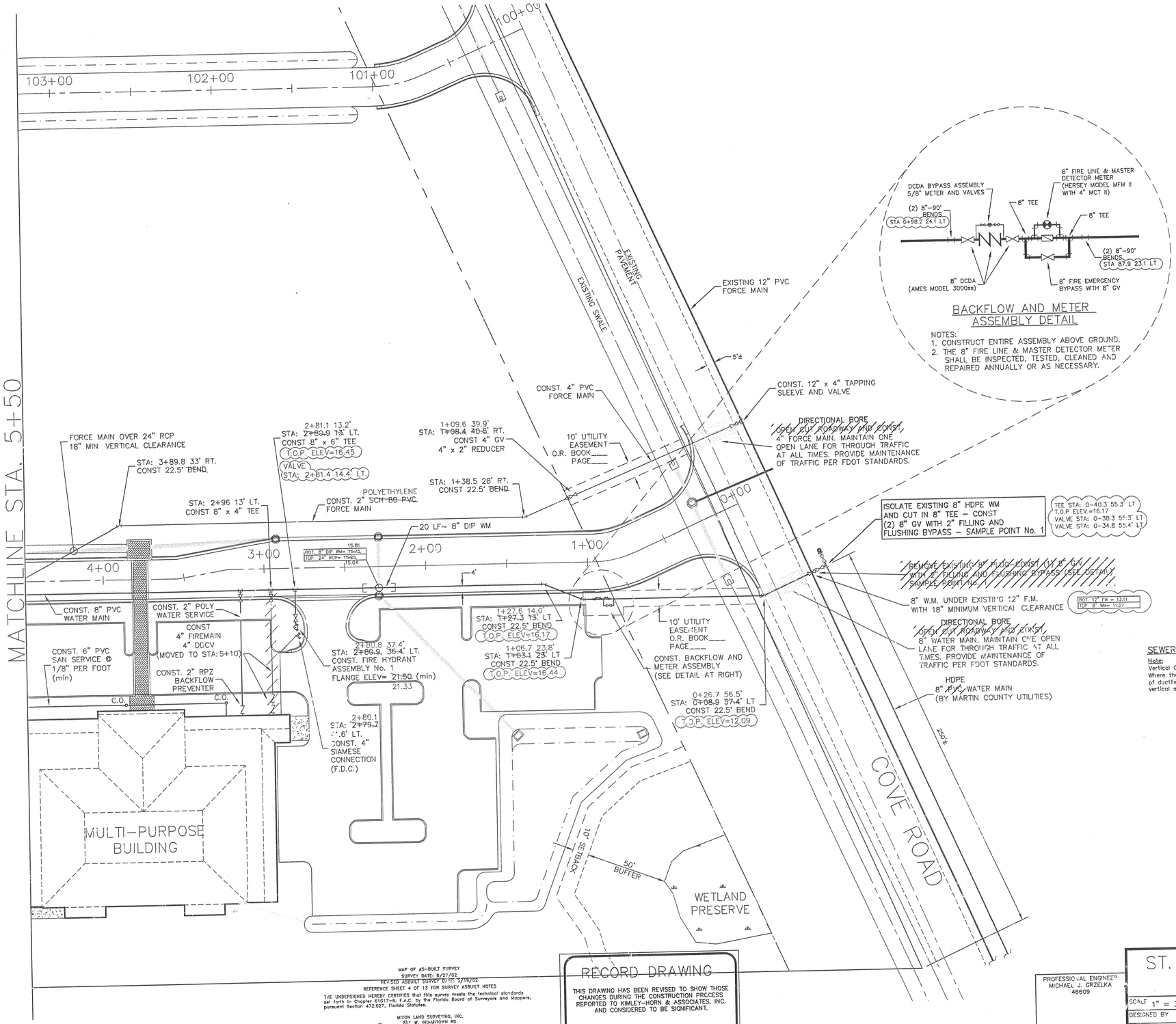
CAPTEC Engineering, Inc.
1870 S.E. PORT ST. LUCIE BLVD.
PORT ST. LUCIE, FL 34952
(561) 398-8182

	NAME	DATE		NAME	DATE
DESIGN BY:	SLC	JUNE 1999	DRAWN BY:	KDP/DLP	6/18/99
CHECKED BY:			CHECKED BY:	SLC	
SUPERVISED BY: J.W.C.					

Martin County
APPROVED BY:
DATE:

UTILITY ADJUSTMENTS
STA. 247+00 TO STA. 250+00

SW-SWW-SR5-ADJ-01-U15.TIF



BACKFLOW AND METER ASSEMBLY DETAIL

NOTES:
1. CONSTRUCT ENTIRE ASSEMBLY ABOVE GROUND.
2. THE 8" FIRE LINE & MASTER DETECTOR METER SHALL BE INSPECTED, TESTED, CLEANED AND REPAIRED ANNUALLY OR AS NECESSARY.

0 30 60
SCALE: 1"= 30'

LEGEND

- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE
- FIRE HYDRANT
- FLUSHING HYDRANT
- SAMPLE POINT
- GATE VALVE
- SANITARY SEWER MAN HOLE

XX-X	STRUCTURE NUMBER
00+00.0	STATION
00.00' LT	OFFSET
00.00	GRATE OR RIM ELEV
00.00	INVERT ELEVATION
00.00	INVERT ELEVATION

SEWER / IQ LATERAL CLEARANCE AT WATER MAIN CROSSINGS

Note:
Vertical Clearance where Sewer / IQ laterals cross water mains shall be 18" minimum. Where the 18" minimum clearance cannot be maintained, both pipes shall be constructed of ductile iron pipe (DIP) centered at the crossing while maintaining a minimum 6" vertical separation. Only IQ laterals are excluded from DIP construction requirements.

CALL 48 HOURS BEFORE YOU DIG
IT'S THE LAW!
1-800-432-4770
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

MAP OF AS-BUILT SURVEY
SURVEY DATE: 6/27/02
REVISED ASBUILT SURVEY DATE: 9/19/02
REFERENCE SHEET 4 OF 13 FOR SURVEY ASBUILT NOTES

THE UNDERSIGNED HEREBY CERTIFIES that this survey meets the technical standards set forth in Chapter 61G17-6, F.A.C. by the Florida Board of Surveyors and Mappers, pursuant Section 472.027, Florida Statutes.

MYKON LAND SURVEYING, INC.
711 W. INDIANTOWN RD.
JUPITER, FL. 33458
(561) 747-6046
L.B. # 4199

BY: _____
RICHARD A. MYKON
Registered Land Surveyor
State of Florida Certificate Number 3335
For the Firm
Not valid without embossed Surveyor's Seal affixed.

RECORD DRAWING

THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED TO KIMLEY-HORN & ASSOCIATES, INC. AND CONSIDERED TO BE SIGNIFICANT.

DATE:_____ BY:_____
MICHAEL J. GRZELKA
P.E. No. 046609

NO.	REVISIONS	DATE	BY
1	REV. PER MCESD PLAN REVIEW COMMENTS	05-31-01	SJV

PROFESSIONAL ENGINEER
MICHAEL J. GRZELKA
46609
SEAL

WATER AND SEWER PLAN

ST. ANDREW CATHOLIC CHURCH

MARTIN COUNTY, FL.

SCALE	1" = 30'
DESIGNED BY	SJV
DRAWN BY	PNW
CHECKED BY	EWT
FILE	SA-WS1
DATE	APRIL 2001
FILE & DRAWING NO.	041001000
SHEET	WS1 OF WS2
	5 OF 13

Kimley-Horn and Associates, Inc.
2400 S.E. FEDERAL HIGHWAY, SUITE 320, STUART, FL 34994
PHONE (561) 286-2190
F.B. 696
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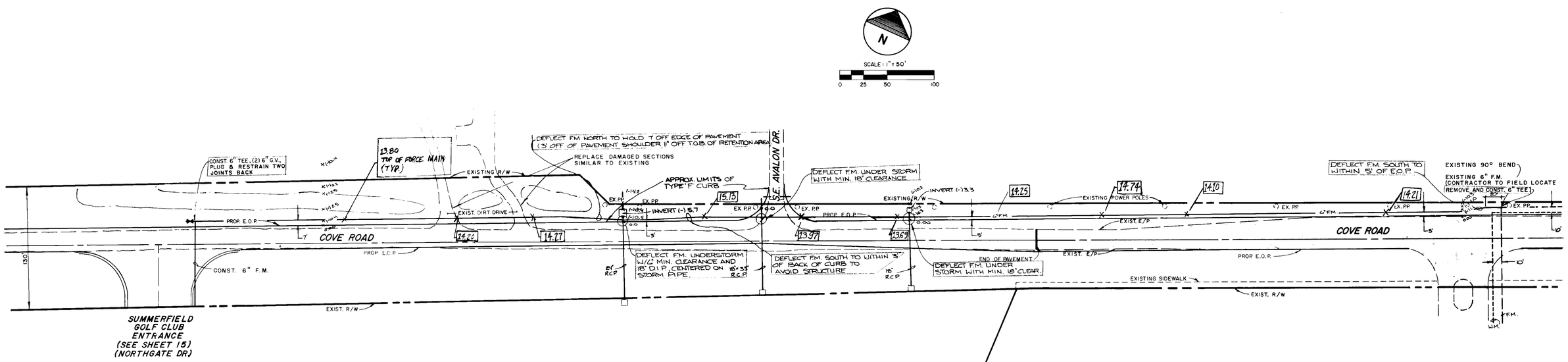
041001000
SA-WS1
APR 2001
1:1
ROT. 0

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SW-SWW-ST.ANDREWS-CHURCH-01-05

01-092 9/26/02

NOTE:
1) ALL DISTURBED AREAS SHALL BE GRASSED IN ACCORDANCE WITH F.D.O.T. INDEX No. 104 & 105.
2) EXISTING INFORMATION TAKEN FROM "COVE ROAD" BY KEITH & SCHNARS DATED 7/11/89.
3) FORCE MAIN TO HAVE MINIMUM 48" COVER FROM EXIST. GROUND ELEVATION.



FM ASBUILTS REF
FB: SUMMERFIELD #2 PG. 42

14.10 - RECORD DRAWING INFORMATION

ALL WORK ON THIS SHEET IS INCLUDED IN PHASE I-A

RECORD DRAWING

DATE	BY	REVISION
3.8.93	S.L.S.	REV. + ADD F.M.
5-20-92	J.L.M.	ADD PHASING, REV. TITLE
10.15.90	S.J.J.	MISC. REV.
7.18.90	S.L.S.	ISSUED

DESIGNED: M.J.G.
DRAWN: S.L.S.
CHECKED:

RECORD DRAWING

THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED TO LINDAHL, BROWNING, FERRARI & HELLSTROM, INC. AND CONSIDERED TO BE SIGNIFICANT. THIS DRAWING IS NOT GUARANTEED TO BE "AS BUILT" BUT BASED ON THE AVAILABLE INFORMATION.

DATE:

BY:

LINDAHL, BROWNING, FERRARI & HELLSTROM, INC.
CONSULTING ENGINEERS, PLANNERS & SURVEYORS
BLDG. 5000, SUITE 104, 210 JUPITER LAKES BLVD., JUPITER, FL. 33468, 407-746-9248
2222 COLONIAL ROAD, SUITE 201, FT. PIERCE, FL. 34950, 407-461-2450
10 CENTRAL PARKWAY, SUITE 420, STUART, FL. 33497, 407-286-3883
2065 15TH AVENUE, VERO BEACH, FL. 32960, 407-567-2156

SUMMERFIELD GOLF CLUB

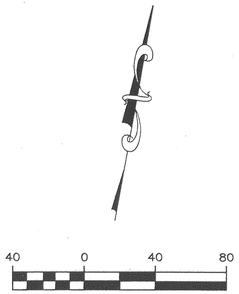
COVE ROAD FORCE MAIN

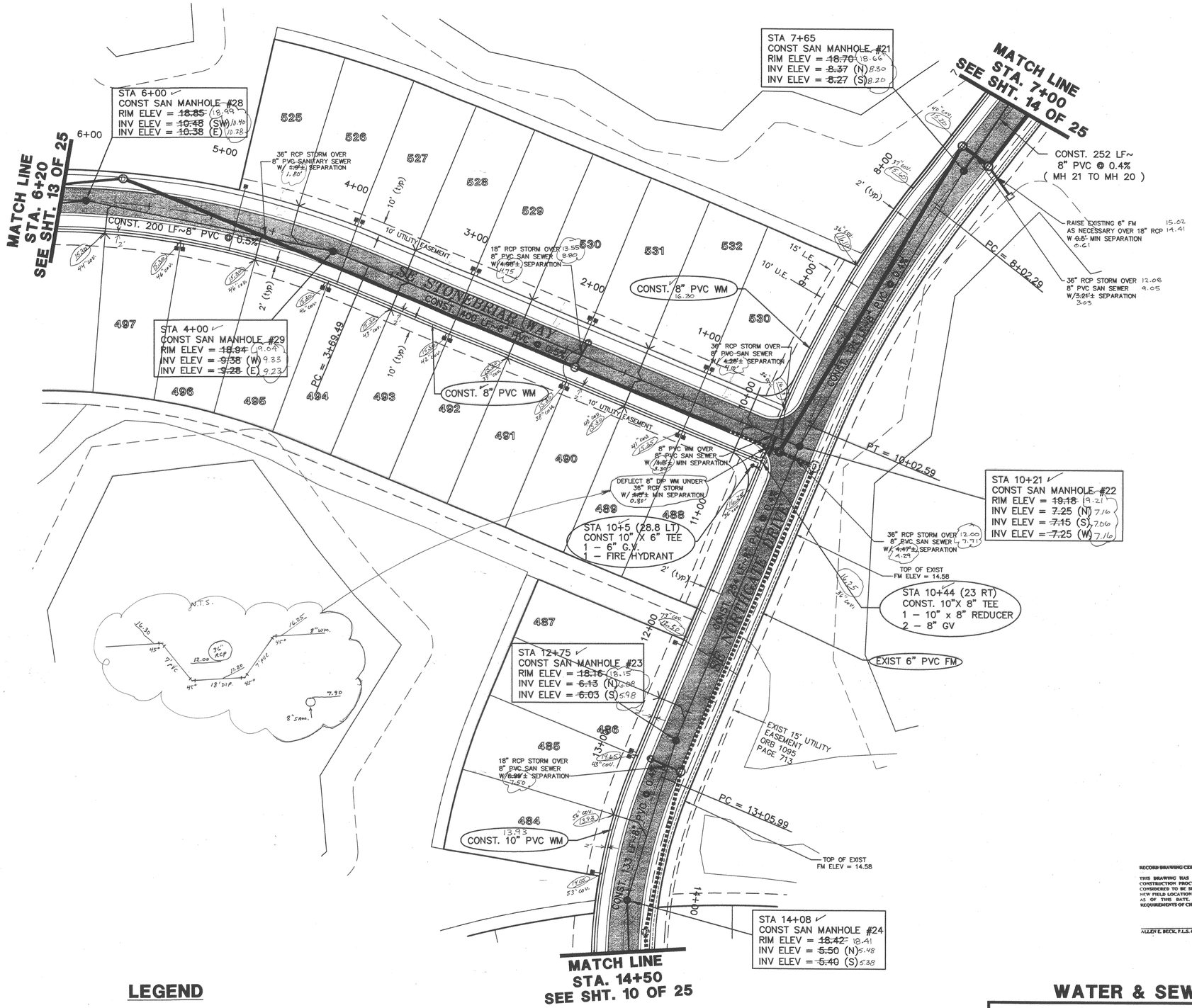
SCALE: 1" = 50'

DRAWING NUMBER: 89-017-120

SHEET 20 OF 21

SW-SWW-SUMMERFIELD-GC-92-020





STANDARD SEPARATION STATEMENT FOR WATER/SEWER CONFLICTS

1. Sanitary sewers, force mains, sewer laterals, and storm sewers should cross under water mains or water services whenever possible. Sanitary sewers, force mains, sewer laterals and storm sewers crossing water mains shall be laid to provide a minimum vertical distance of 18 inches between the invert of the upper pipe and the crown of the lower pipe whenever possible.

   Where sanitary sewers, force main, sewer laterals, and storm sewers must cross a water main with less than 18 inches vertical distance, both the sewer and the water main shall be constructed of ductile iron pipe (DIP) at the crossing. (DIP is not required for storm sewers) Sufficient lengths of DIP must be used to provide a minimum separation of 10 feet between any two joints. All joints on the water main within 20 feet of the crossing must be mechanically restrained. A minimum vertical clearance of 6 inches must be maintained at all crossings.

   All crossings shall be arranged so that the sewer pipe joints and the water main pipe joints are equidistant from the point of crossing (pipes centered on the crossing).

   Where a new pipe conflicts with an existing pipe with less than 18 inches vertical clearance, the new pipe shall be constructed of DIP (except storm sewers) and the new pipe shall be arranged to meet the crossing requirements above.

2. A minimum 10 foot horizontal separation shall be maintained between any type of sewer and water main in parallel installations whenever possible.

   In cases where it is not possible to maintain a 10–foot horizontal separation, the water main must be laid in a separate trench or on an undisturbed earth shelf located on one side of the sewer or force main at such an elevation that the bottom of the water main is at least 18 inches above the top of the sewer.

   Where it is not possible to maintain a vertical distance of 18 inches in parallel installations, the water main shall be constructed of DIP and the sewer or the force main shall be constructed of DIP (except storm sewers) with a minimum vertical distance of 6 inches. The water main should always be above the sewer. Joints on the water main shall be located as far apart as possible from joints on the sewer of force main (staggered joints).

3. All DIP shall be Class 50 or higher, ductile iron fittings shall be Class 350. Adequate protective measures against corrosion shall be used.

4. Maximum obtainable separation of reclaimed water lines and domestic water lines shall be practiced. A minimum horizontal separation of five feet (center to center) or three feet (outside to outside), shall be maintained between reclaimed water lines and potable water mains and between sewage reclaimed water lines and collection lines. A minimum vertical clearance of 18 inches must be maintained between reclaimed water lines and potable water mains or sewage collection lines and sewer laterals. At crossings provisions of F.A.C. Rule 17–604 and 10 States Standards apply.

LEGEND

- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE
- FIRE HYDRANT
- SAMPLE POINT
- EXIST WATER MAIN
- EXIST FORCE MAIN
- GATE VALVE
- SANITARY SEWER MAN HOLE
- SINGLE SANITARY SERVICE
- DOUBLE SANITARY SERVICE
- EXIST STORM PIPE

CALL 48 HOURS BEFORE YOU DIG

IT'S THE LAW! 1-800-432-4770

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

RECORD DRAWING CERTIFICATION:

THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED TO ALLEN E. BECK LAND SURVEYORS AND CONSIDERED TO BE SIGNIFICANT. THE CHANGES SHOWN HEREON, REFLECT THE NEW FIELD LOCATION AND INFORMATION OF THOSE ITEMS INSTALLED / ALTERED, AS OF THIS DATE. THE INFORMATION PROVIDED COMPLIES WITH THE REQUIREMENTS OF CHAPTER 61G17-6 F.A.C.

ALLEN E. BECK, P.L.S. #3498 DATE

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PLOTTED: 046905011 4–5WS–5 JUNE 00 1"=40' ROT. 45

S:\045\046905011\16\CAD\1100\4-5WS-4.dwg Mon Aug 21 15:20:35 2000 MJL

NO.	REVISIONS	DATE	BY
1	REVISED PER MCU (FM NOTE)	08–11–00	GJG

SEAL

WATER & SEWER PLAN

SUMMERFIELD - PHASES 4 & 5

A PRIVATE RESIDENTIAL COMMUNITY

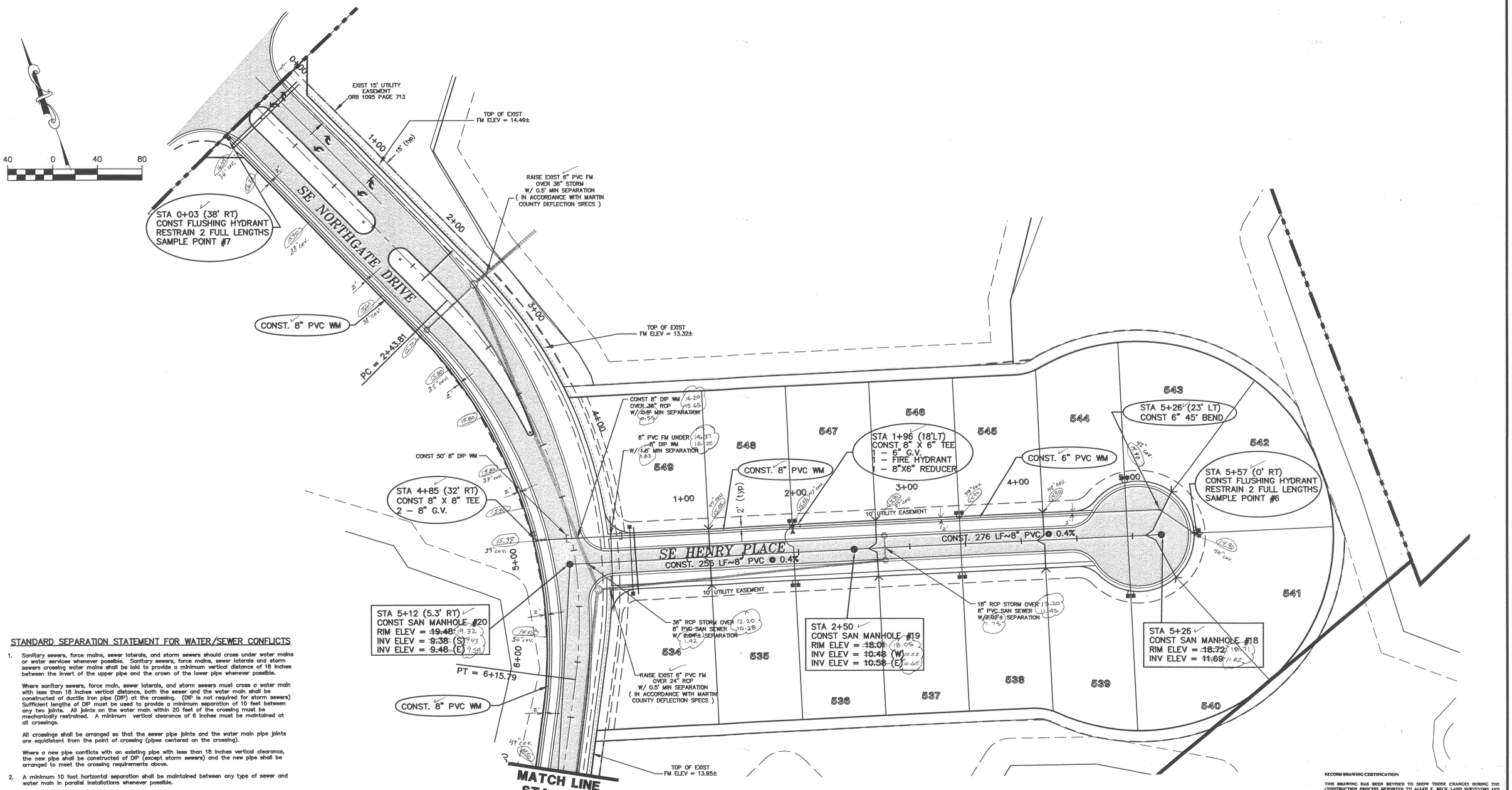
SCALE	1" = 40'
DESIGNED BY	DAH
DRAWN BY	MJL
CHECKED BY	GJG
FILE	4–5–WS–5

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PHONE (561) 286–2190

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DATE	JUNE 00
FILE & DRAWING NO.	046905011
SHEET	WS4 OF WS6
	12 OF 25

SW-SWW-SUMMERFIELD-PH4&5-00-12



STANDARD SEPARATION STATEMENT FOR WATER/SEWER CONFLICTS

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LEGEND

SINGLE WATER SERVICE	GATE VALVE
DOUBLE WATER SERVICE	SANITARY SEWER MAN HOLE
FIRE HYDRANT	SINGLE SANITARY SERVICE
SAMPLE POINT	DOUBLE SANITARY SERVICE
EXIST WATER MAIN	EXIST STORM PIPE
EXIST 6" FORCE MAIN	

CALL 48 HOURS BEFORE YOU DIG

IT'S THE LAW! 1-800-432-4770

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

NO.	REVISIONS	DATE	BY
2	REV. PER FDEP (ADDED FLUSH HYD)	12/19/00	GJG
1	REVISED PER MCU (FM NOTE)	08/11/00	GJG

SEAL

RECORD DRAWING CERTIFICATION:

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ALLEN E. BECK, P.L.S. #3699 DATE

WATER & SEWER PLAN

SUMMERFIELD - PHASES 4 & 5

A PRIVATE RESIDENTIAL COMMUNITY

SCALE	1" = 40'
DESIGNED BY	DAH
DRAWN BY	MJL
CHECKED BY	GJG
FILE	4–5–WS–6

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2400 S.E. FEDERAL HIGHWAY, SUITE 320, STUART, FL 34994
PHONE (561) 286–2190

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DATE JUNE 00
FILE & DRAWING NO. 046905011
SHEET WS6 OF WS6
14 OF 25

PLOTTED: BY:
046905011
4–5WS–6
JUNE 00
1"=40'
ROT. 45

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SW-SWW-SUMMERFIELD-PH4&5-00-14

ASBUILT DRAWING

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

WETLAND 1
0.70 ACRES±
SHWL: 14.95

50' WETLAND BUFFER

DRY RETENTION 1A
TOP: 17.25
DHWL (25Y30): 17.15
BOTT: 16.00
SHWL: 15.00

EXISTING PRESERVE

PROPERTY BOUNDARY

MATCHLINE A

4" PVC C900 FORCE MAIN

4" PVC C900 WATER SERVICE

6" HIGH OPAQUE SCREEN WALL

8" FIRE LINE

6" FIRE MAIN OVER 4" WATER SERVICE
(14.79) ~~12.50~~ BOTTOM OF FIRE (WATER SERVICE)
(14.06) ~~14.50~~ TOP OF WATER SERVICE (FIRE)
(0.73) ~~1.00~~ SEPARATION

6" FIRE MAIN OVER 4" FORCE MAIN
(13.81) ~~12.50~~ BOTTOM OF FIRE
(12.43) ~~14.50~~ TOP OF FORCE MAIN
(1.38) ~~2.00~~ SEPARATION

18" STORM PIPE OVER 6" FIRE MAIN
13.14 BOTTOM OF STORM
(13.05) ~~11.50~~ TOP OF FIRE MAIN
1.64 SEPARATION

18" STORM PIPE OVER 4" FORCE MAIN
13.03 BOTTOM OF STORM PIPE
(12.40) ~~10.00~~ TOP OF FORCE MAIN
3.03 SEPARATION

18" STORM PIPE
OVER 4" FORCE MAIN
13.44 BOTTOM OF STORM PIPE
(13.58) ~~10.00~~ TOP OF FORCE MAIN
3.44 SEPARATION

6" PVC FIRE SERVICE
18" STORM PIPE
(13.34) OVER 6" FIRE MAIN
~~12.67~~ BOTTOM OF STORM PIPE
(11.48) ~~11.50~~ TOP OF FIRE MAIN
(1.86) 1.42 SEPARATION

4" PVC C900 WATER SERVICE
18" STORM PIPE
(13.38) ~~12.62~~ BOTTOM OF STORM PIPE
(10.06) ~~10.00~~ TOP PIPE
(3.32) ~~2.62~~ SEPARATION

6" FIRE MAIN
OVER 4" FORCE MAIN
(14.12) ~~11.00~~ BOTTOM OF FIRE MAIN
(10.26) ~~10.00~~ TOP OF FORCE MAIN
(3.86) ~~1.00~~ SEPARATION

18" STORM PIPE
OVER 6" FIRE MAIN
(12.99) ~~12.76~~ BOTTOM OF STORM
(11.65) ~~11.50~~ TOP OF FIRE MAIN
(1.34) ~~1.26~~ SEPARATION

(8" FIRE MAIN) ~~18" STORM PIPE~~ OVER
(4" WATER MAIN) ~~6" FIRE MAIN~~
(10.81) ~~11.00~~ BOTTOM OF FIRE MAIN
(9.29) ~~10.00~~ TOP OF WATER SERVICE
(1.52) ~~1.00~~ SEPARATION

(UNDER)
4" WATER SERVICE
(14.79) ~~12.50~~ BOTTOM OF FIRE (WATER SERVICE)
(14.06) ~~14.50~~ TOP OF WATER SERVICE (FIRE)
(0.73) ~~1.00~~ SEPARATION

4" FORCE MAIN
(13.81) ~~12.50~~ BOTTOM OF FIRE
(12.43) ~~14.50~~ TOP OF FORCE MAIN
(1.38) ~~2.00~~ SEPARATION

SEE DETAILS ON SHEET C 910 FOR OFFSITE FORCE MAIN (SEE ASBUILT OFFSITE UTILITY PLAN-C910)

APPROXIMATE BORE EXIT (SEE ASBUILT OFFSITE UTILITY PLAN-C910)

4" 90° BEND (FM) UNDER SIDEWALK (SEE ASBUILT OFFSITE UTILITY PLAN-C910)

(SEE ASBUILT OFFSITE UTILITY PLAN-C910)

8"X4"X8" TEE
90° BEND
BAC–T SP#2

SEE DETAIL 'A' THIS SHEET

MIN. 12" SEPARATION (FM BELOW WATER)

SLEEVE WATER AND FIRE MAIN UNDERNEATH PROPOSED WALL

EXISTING UTILITY EASEMENT

MIN. 12" SEPARATION (FM BELOW WATER)

6' HIGH OPAQUE SCREEN WALL

SIGNAL MAST ARM (REFER TO SIGNAL DESIGN PLANS)

2" ARV (SEE SHEET C 975 FOR DETAILS)

4" CHECK VALVE IN STACKABLE BOX

SIGNAL MAST ARM (REFER TO SIGNAL DESIGN PLANS)

8" PVC C900 WATERMAIN

REPAIR EXISTING DIRT/GRAVEL DRIVEWAY TO ORIGINAL CONDITION ASSOCIATED WITH UTILITY CROSSING

FILL AND FLUSH JUMPER ASSEMBLY PER MCU 2016 SPECIFICATIONS

OPEN CUT AND PATCH EXISTING ROAD FOR PROPOSED WET TAP. OVERLAY DRIVE FROM ROW LINE TO COVE ROAD (REFER TO MILL AND RESURFACE LIMITS FOR DRIVEWAY IMPROVEMENTS)

EXISTING 8" WATERMAIN

CHLORINE INJECTION SP#1

8"x8" TAPPING SLEEVE AND VALVE

REMOTE FDC

FDC SERVICE LINE

TRANSFORMER PAD

IRRIGATION WELL (REFER TO IRRIGATION PLANS)

PROPOSED STORM PIPE. REFER TO PAVING, GRADING AND DRAINAGE PLANS FOR DETAIL

DRY RETENTION 2
TOP: 17.00
DHWL (25Y3D): 16.92
BOTT: 15.00
SHWL: 14.00

PURPOSED BLDG.
65,000 SF
(2) STORY
FFE:18.25

MATCHLINE A

FIRE HYDRANT (TYP.)

CONTRACTOR TO ENSURE ENOUGH SEPARATION FROM FIRE LINE AND WATER SERVICE FOR INSTALLATION OF METER, BACKFLOW, AND DCDA ASSEMBLIES.

6" CONCRETE PAD PER DETAILS ON SHEETS C 975 AND C 976

8" FIRE LINE DCDA PER DETAIL ON SHEET C 976

8" FIRE LINE

8" GATE VALVE

PRIVATE

MCU

11.3'±

10.7'±

4' MIN.

9.0'±

4" PVC C900 WATER SERVICE

PROPERTY LINE

4" RPZ

3" ABOVE GROUND METER AND BACKFLOW ASSEMBLY PER DETAILS ON SHEETS C 975 AND C976

4" GATE VALVE
4"x3" REDUCER
3"X4" REDUCER

4" PVC C900 FORCE MAIN

DETAIL A (SCALE 1"=5')

ASBUILT LEGEND
(0.00) - ASBUILT DATA
FM - FORCE MAIN
FL - FIRE LINE
WM - WATER MAIN

DAVID P. LINDLEY, P.L.S. REG.
LAND SURVEYOR, #5005
STATE OF FLORIDA, LB #3591

CAULFIELD & WHEELER, INC.
7900 GLADES ROAD SUITE 100
BOCA RATON, FLORIDA 33434
(561) 392-1991

CERTIFICATION
I HEREBY CERTIFY THAT THE ATTACHED WATER AND SEWER ASBUILTS ON THE HEREON DELINEATED PROPERTY ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AS SURVEYED IN OCTOBER, 2019.

ASBUILT DRAWING

No.	DATE	BY
4	04/24/19	JLH
3	03/11/19	JLH
2	01/28/19	JLH
1	12/11/18	BAY

REVISIONS

Kimley»Horn

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116 SOUTH KENTUCKY AVENUE, LAKELAND, FL 33801
PHONE: 863-701-8702
WWW.KIMLEY-HORN.COM CA 00000696

LICENSED PROFESSIONAL
JORDAN HAGGERTY, P.E.
FL LICENSE NUMBER
80511
DATE:

KHA PROJECT 046443000
DATE DEC. 2018
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

TREASURE COAST CLASSICAL ACADEMY

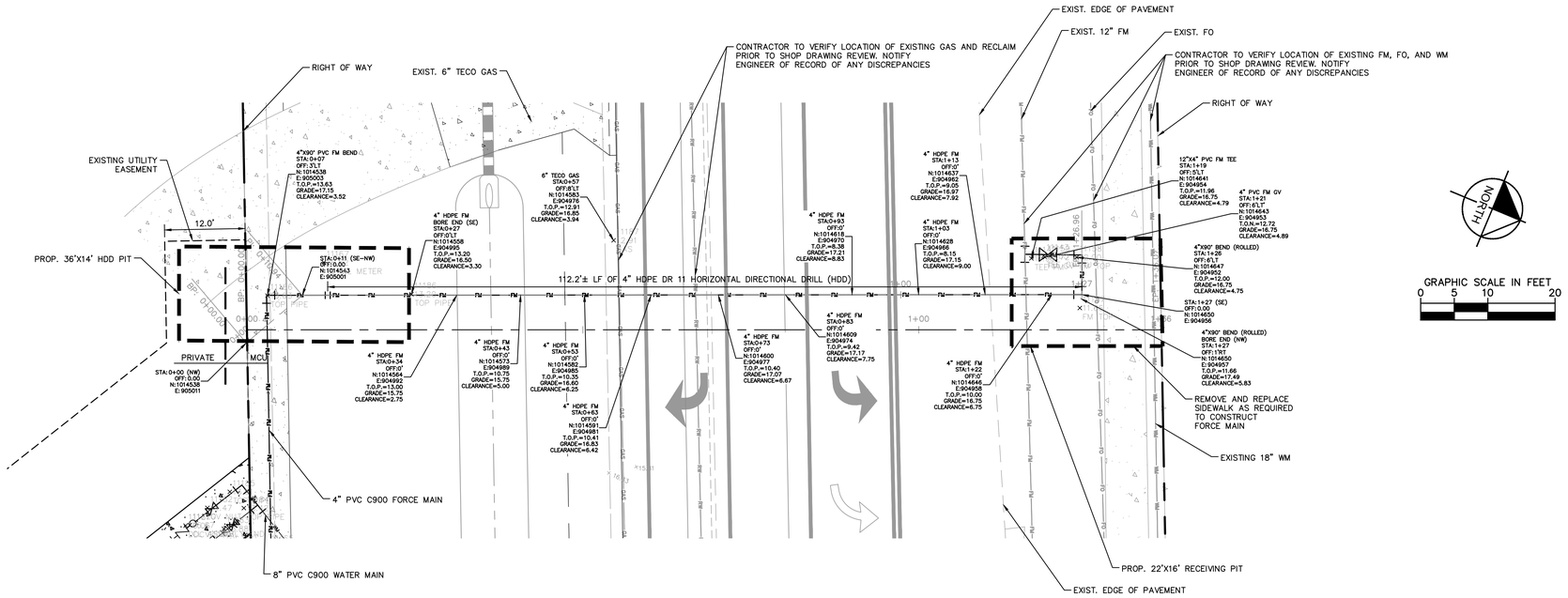
PREPARED FOR
SUMMIT CONST. GROUP FL
MARTIN COUNTY

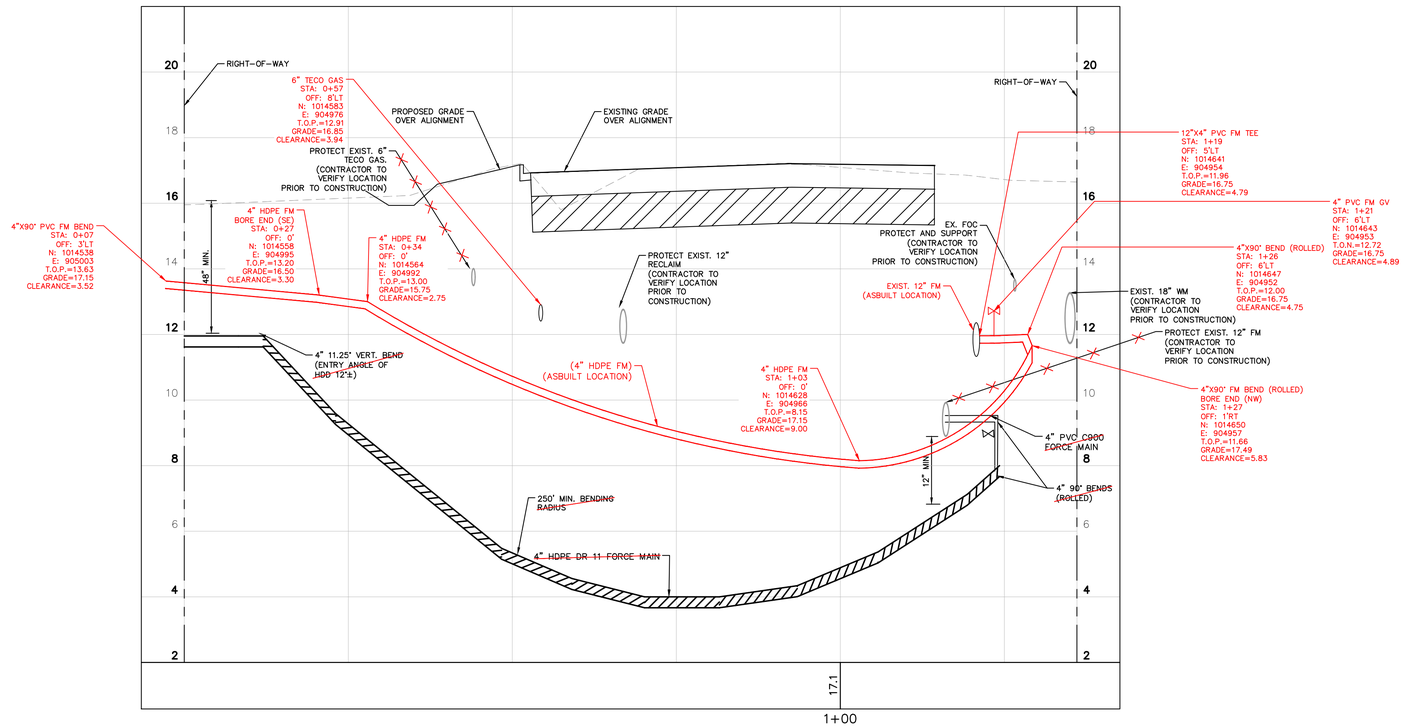
UTILITY PLAN

SHEET NUMBER
C 900

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Plotted By:Christos Theocharous Sheet Set:Treasure Coast Classical Academy Layout:C 900 UTILITY PLAN
UTILITY PLAN December 17, 2019 09:39:26am P:\06614-00-00-00\drawings\Survey\ASBUILTS\WS\8614 ASB WS C900.dwg

ASBUILT DRAWING





ASBUILT DRAWING

ASBUILT LEGEND
(0.00) - ASBUILT DATA

CERTIFICATION
I HEREBY CERTIFY THAT THE ATTACHED WATER AND SEWER ASBUILTS ON THE HEREON DELINEATED PROPERTY ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AS SURVEYED IN OCTOBER, 2019.

_____
DAVID P. LINDLEY, P.L.S. REG.
LAND SURVEYOR, #5005
STATE OF FLORIDA, LB #3591

CAULFIELD & WHEELER, INC.
7900 GLADES ROAD SUITE 100
BOCA RATON, FLORIDA 33434
(561) 392-1991

No.	REVISIONS	DATE	BY
3	REV. PER SFWMD/COUNTY COMMENTS	03/11/19	JLH
2	REV. PER SFWMD/COUNTY COMMENTS	01/28/19	JLH
1	REV. PER SFWMD/COUNTY COMMENTS	12/11/18	BAY

Kimley»Horn
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116 SOUTH KENTUCKY AVENUE, LAKELAND, FL 33801
PHONE: 863-701-8702
WWW.KIMLEY-HORN.COM CA 00000696

LICENSED PROFESSIONAL
JORDAN HAGGERTY, P.E.
FL LICENSE NUMBER
80511
DATE: ____

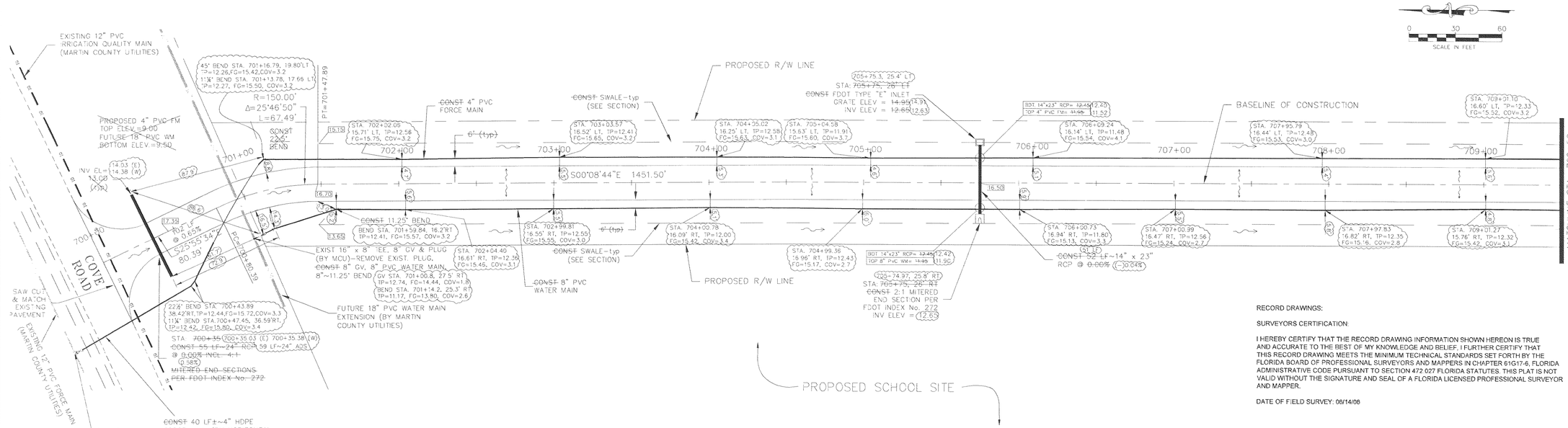
KHA PROJECT 046403000
DATE DEC. 2018
SCALE AS SHOWN
DESIGNED BY ____
DRAWN BY ____
CHECKED BY ____

OFFSITE UTILITY PLAN & PROFILE

TREASURE COAST CLASSICAL ACADEMY
PREPARED FOR
SUMMIT CONST. GROUP FL
MARTIN COUNTY

SHEET NUMBER
C 910

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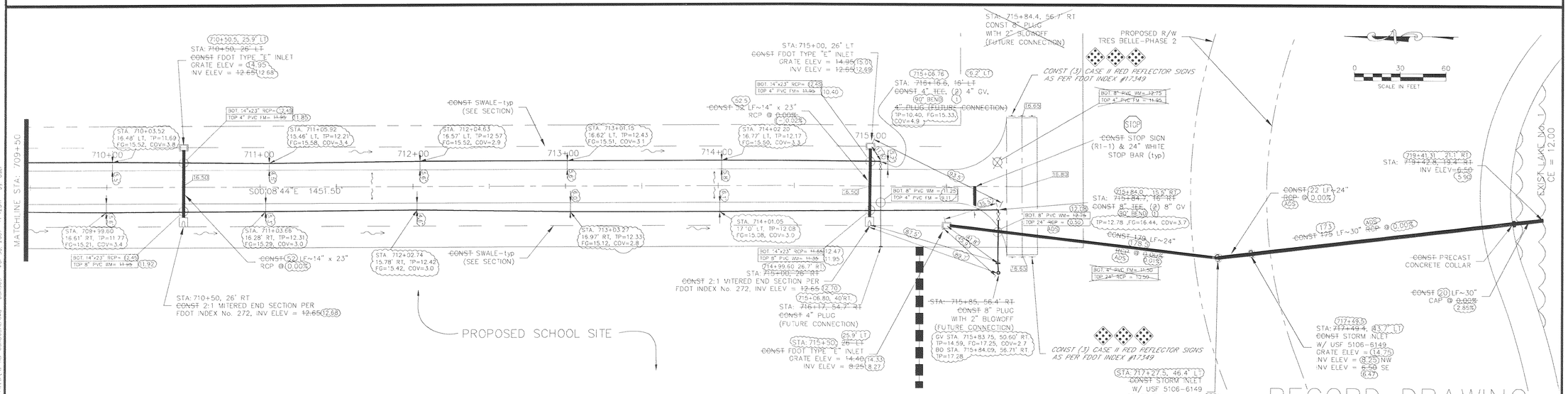
RECORD DRAWINGS:

SURVEYORS CERTIFICATION:

I HEREBY CERTIFY THAT THE RECORD DRAWING INFORMATION SHOWN HEREON IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF. I FURTHER CERTIFY THAT THIS RECORD DRAWING MEETS THE MINIMUM TECHNICAL STANDARDS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 61G17-6, FLORIDA ADMINISTRATIVE CODE PURSUANT TO SECTION 472.027 FLORIDA STATUTES. THIS PLAT IS NOT VALID WITHOUT THE SIGNATURE AND SEAL OF A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER.

DATE OF FIELD SURVEY: 06/14/06

CHARLES A. CRAMER
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE No. 4094



NOTES:
1) ALL REFLECTIVE PAVEMENT MARKERS (RPM) SHALL BE PER FDOT INDEX No. 17352.
2) ALL STRIPING TO BE THERMOPLASTIC.

CALL 48 HOURS BEFORE YOU DIG
IT'S THE LAW!
1-800-432-4770
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

LEGEND

EXIST. GRADE		PROP. DRAINAGE INLET WITH PIPE	
0.00 PROP. GRADE		PROP. DRAINAGE MANHOLE WITH PIPE	
FLOW DIRECTION		PROP. ASPHALT	

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.

Drawing name: G:\DATA\CAD\TDC497.19\SBLL\LAC\MD Pu\TES\TB-RD-OSRD03AB.dwg 05/19/03 Mar 30, 2007 11:12am by User

MICHAEL J. GRZELKA, P.E.
FLORIDA REGISTRATION # 46609

SCHAEFER FAGAN & ASSOCIATES, INC.
900 South Federal Highway • Suite 301 • Stuart, FL 34994
Phone: (772) 219-3309 Fax: (772) 219-3310

RECORD DRAWING

THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED TO SCHAEFER, FAGAN AND ASSOCIATES, INC. AND CONSIDERED TO BE SIGNIFICANT.

NO.	REVISIONS	DATE	BY
2	REV PER MCU PLAN REVIEW COMMENTS OF 8-6-04	11-16-04	SJV
1	REV. PER MARTIN COUNTY COMMENTS, 8-12-04	9-14-04	SJV

PROFESSIONAL ENGINEER
GLEN J. GAREAU
58614
SEAL

RECORD DRAWING
PARK ACCESS ROAD
OFFSITE ROADWAY IMPROVEMENTS

TRES BELLE – PHASE 1
MARTIN COUNTY, FLORIDA

SCALE	AS SHOWN
DESIGNED BY	SJV
DRAWN BY	SJV
CHECKED BY	MJG
FILE	TB-RD-OSRD03AB

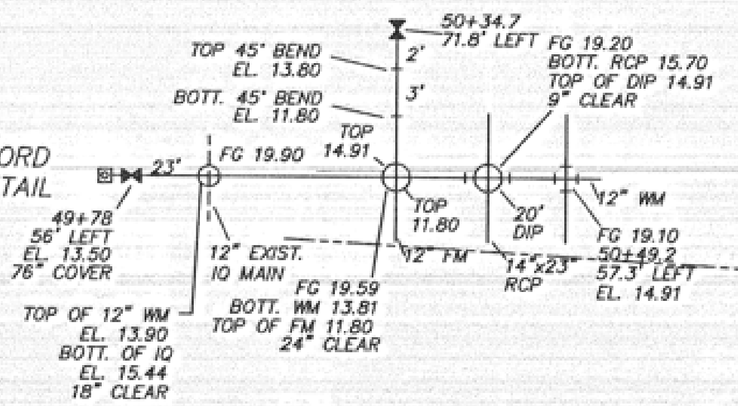
Kimley-Horn and Associates, Inc.
2400 S.E. FEDERAL HIGHWAY, SUITE 320, STUART, FL 34994
PHONE (772) 286-2190 FAX (772) 286-0138
KIMLEY-HORN AND ASSOC. INC. CA 00000696

DATE FEB. 2004
FILE & DRAWING NO. 046915011
SHEET 36 OF 46

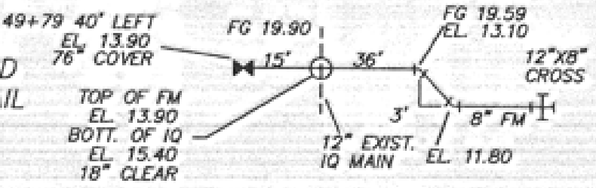
SW-SWW-TRES-BELLE-PHASE1-07-036.TIF

PROJECT NO.	SHEET NO.
92-E-41	14

WATERMAIN RECORD INFORMATION DETAIL



FORCE MAIN RECORD INFORMATION DETAIL



B.M. No. 1
60d NAIL IN WOOD POWER POLE
142.75' LT. STA. 50+52.85
ELEV. 18.67

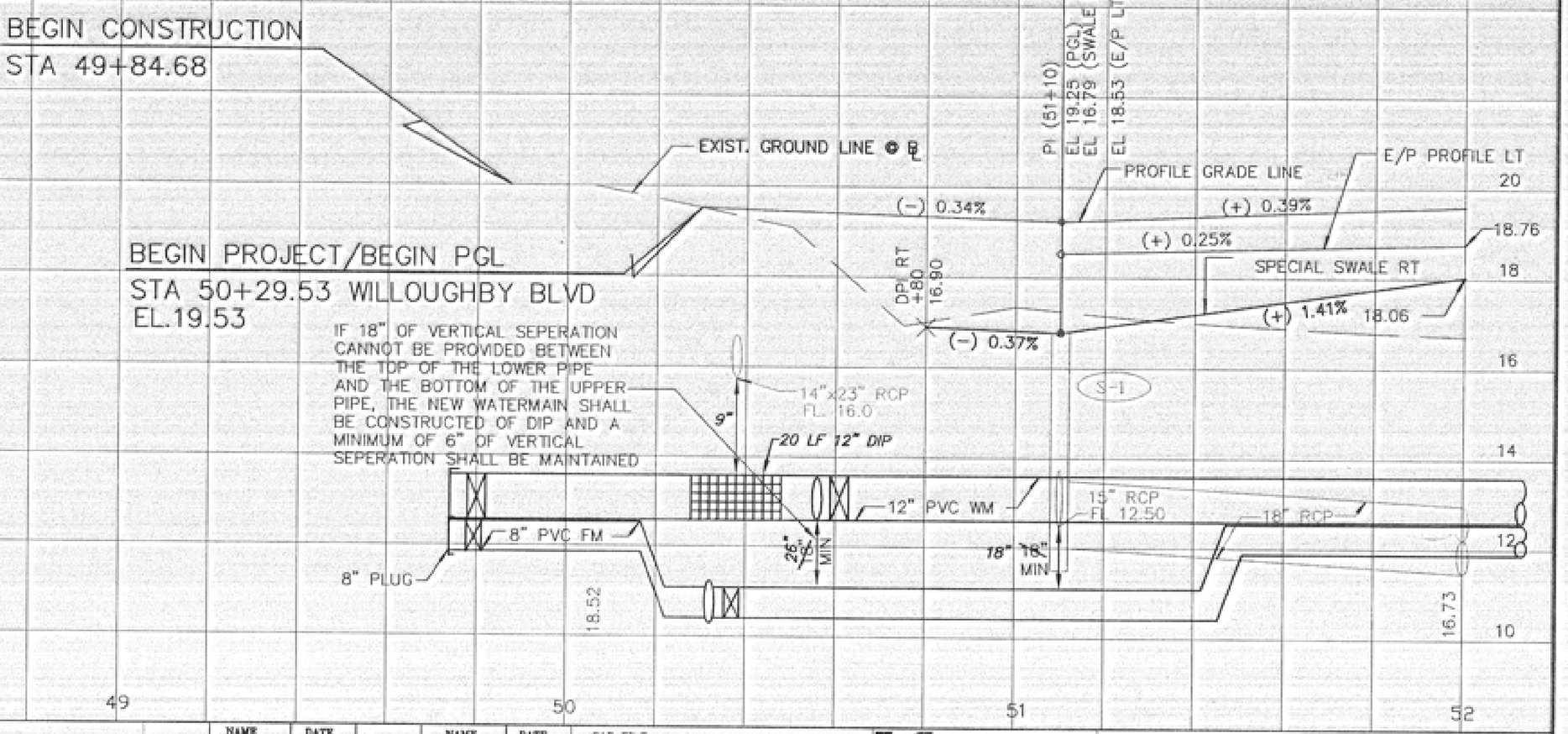
EL. 10.76 INDICATES RECORD INFORMATION
~~EL. 10.75~~

RECORD DRAWING THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED TO LBFH, INC. BY:

A.B. SURVEY SUPPLIES ENTERPRISES, INC.
NOVEMBER, 2001

THIS INFORMATION IS CONSIDERED TO BE "AS BUILT" BASED ON THE AVAILABLE INFORMATION.

DATE: BY:
Lisa A. Wichser, P.E.
FL # 45431



REVISIONS												
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
3/99		MILLOUGHBY DIVERSION / CONNECTOR RD.									
8/99		CHANGE COVE RD. FM TO 12"									
01/00		CLEARANCE & SAMPLE PT #6 PER FDEP	12/01	AT	ADDED RECORD INFORMATION						

	NAME	DATE		NAME	DATE
DESIGNED BY	C.K./M.A.	6/24/94	DRAWN BY	D.C./R.H.	6/24/94
CHECKED BY	G.C./L.V.	6/24/94	CHECKED BY	C.K./M.A.	6/24/94
SUPERVISED BY: LISA A. WICHSER, P.E.					

CAD FILE: RPLAN1201.DWG
APPROVED BY:
DATE:

LINDAHL, BROWNING, FERRARI & HEELISTHOM, INC.
CONSULTING ENGINEERS, PLANNERS & SURVEYORS
PALM CITY · FORT PIERCE · WEST PALM BEACH · OKEECHOBEE

PLAN & PROFILE WILLOUGHBY BLVD.

SW-SWW-WILLOUGHBY-BLVD-01-14

PROJECT NO.	SHEET NO.
92-E-41	15

12" PVC WM
+00 50' LEFT 75" COVER
+00 55.7' LEFT 69" COVER
+00 56' LEFT 67" COVER
R/W LINE
8' CONC SIDEWALK
S-115
CONNECT TO EXIST DRIVE
EXIST. DRIVE
+00 55.8' LEFT 67" COVER
CONST. HANDRAIL STA 56+70 THROUGH STA 57+20
+90 56' LEFT 78" COVER
EXIST. DIRT DRIVE
20'
S-47
12" PVC WM
S-91
S-90
8" PVC FM
EL. 18.62
EL. 18.52
EL 18.32
EL 18.39
S-114
S-6
8" PVC FM
4' PAVED SHOULDER
+00 40' LEFT 70" COVER
+00 40' LEFT 72" COVER
+00 39.7' LEFT 68" COVER
+10 39.8' LEFT 71" COVER
+90 40' LEFT 79" COVER
4' PAVED SHOULDER
℄ SURVEY
S-5
S-40
℄ DRIVE STA 57+37
S-48
TOP OF BANK
TOE OF SLOPE
2:1
S-7
R/W LINE
TOP OF BANK
DENOTES GRADE TO DRAIN

B.M. No. 2
TOP OF ROD & CAP
92.22' LT. STA. 57+37.02
ELEV. 18.65

EL. 10.76 INDICATES RECORD INFORMATION

RECORD DRAWING THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED TO LBFH, INC. BY:

A.B. SURVEY SUPPLIES ENTERPRISES, INC.
NOVEMBER, 2001

THIS INFORMATION IS CONSIDERED TO BE "AS BUILT" BASED ON THE AVAILABLE INFORMATION.

DATE: BY: Lisa A. Wichser, P.E. FL # 45431

FULL SUPER ELEVATION
BEGIN FULL SUPER P.I. (+60) El 19.84
E/P (E/P LT) El 18.91
P.I. (53+60) El 20.14
P.I. (56+10) El 19.39
E/P PROFILE LT
(+) 0.39%
(+) 0.30%
(+) 0.25%
1.41%
18.06
SPECIAL SWALE RT
DPI RT 18.90
PROFILE GRADE LINE
(−) 0.30%
(+) 0.30%
EXIST. GROUND LINE @ B_L
12"x18" RCP
15.96
FL 17.03
FL 16.85
16.83
PVC 12" DIR WM 18" MIN-8" VERT CLEARANCE
24" RCP
FL 14.01
TOP OF WM 12.20
BOTT. OF RCP 13.76
TOP OF FM 12.10
BOTT. OF RCP 13.85
TOP OF FM 12.35
18" MIN
15" RCP
FL 14.04
12" PVC WM
8" PVC FM
18" RCP
FL 10.50
FL 8.50
16.73
16.14

REVISIONS												
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
3/99		WILLOUGHBY DIVERSION & CONNECTOR RD.	12/01	AT	ADDED RECORD INFORMATION						

	NAME	DATE		NAME	DATE
DESIGNED BY	C.K./M.A.	6/24/94	DRAWN BY	D.C./R.H.	6/24/94
CHECKED BY	G.C./L.W.	6/24/94	CHECKED BY	C.K./M.A.	6/24/94

SUPERVISED BY: LISA A. WICHSER, P.E.

CAD FILE: RPLANRD02.DWG
APPROVED BY:
DATE:

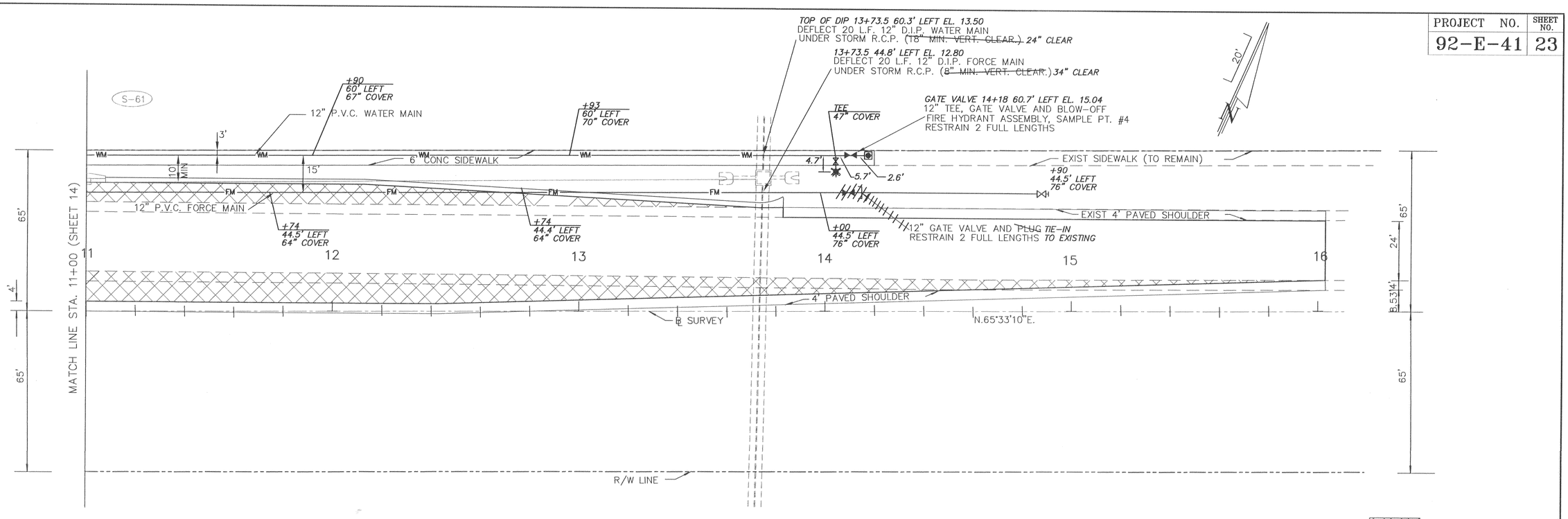
LINDAHL, BROWNING, FERRARI & HELLSTROM, INC.
CONSULTING ENGINEERS, PLANNERS & SURVEYORS
PALM CITY FORT PIERCE WEST PALM BEACH OKEECHOBEE

PLAN & PROFILE WILLOUGHBY BLVD.

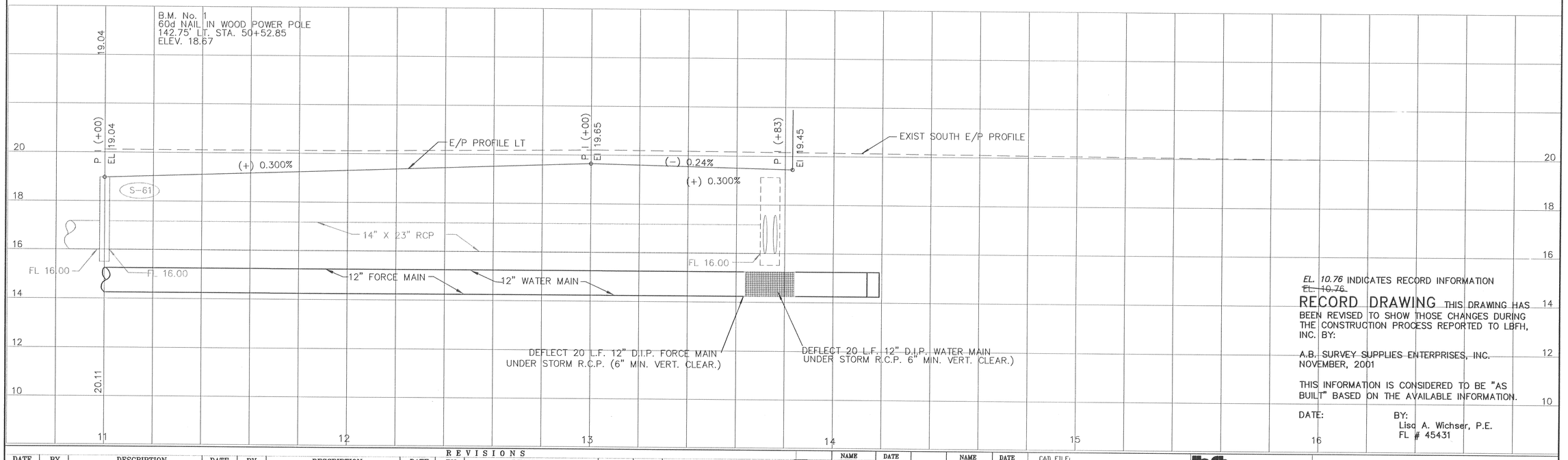
SW-SWW-WILLOUGHBY-BLVD-01-15

G:\Acad\98-0063 ASBUILTS ACAD14\RPLANRD02.dwg, 12/10/2001 05:00:38 PM, Alex T, LBFH Inc.

PROJECT NO.	SHEET NO.
92-E-41	23



DENOTES WIDENING



EL. 10.76 INDICATES RECORD INFORMATION
~~EL. 10.76~~

RECORD DRAWING THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED TO LBFH, INC. BY:

A.B. SURVEY SUPPLIES ENTERPRISES, INC.
NOVEMBER, 2001

THIS INFORMATION IS CONSIDERED TO BE "AS BUILT" BASED ON THE AVAILABLE INFORMATION.

DATE:

BY:
Lisa A. Wichser, P.E.
FL # 45431

REVISIONS

DATE	BY	DESCRIPTION
3/99		WILLOUGHBY DIVERSION & CONNECTOR RD.
12/01	AT	ADDED RECORD INFORMATION

	NAME	DATE		NAME	DATE
DESIGNED BY	C.K./M.A.	6/24/94	DRAWN BY	D.C./R.H.	6/24/94
CHECKED BY	G.C./L.W.	6/24/94	CHECKED BY	C.K./M.A.	6/24/94

SUPERVISED BY: LISA A. WICHSER, P.E.

CAD FILE: PLANRD11.DWG

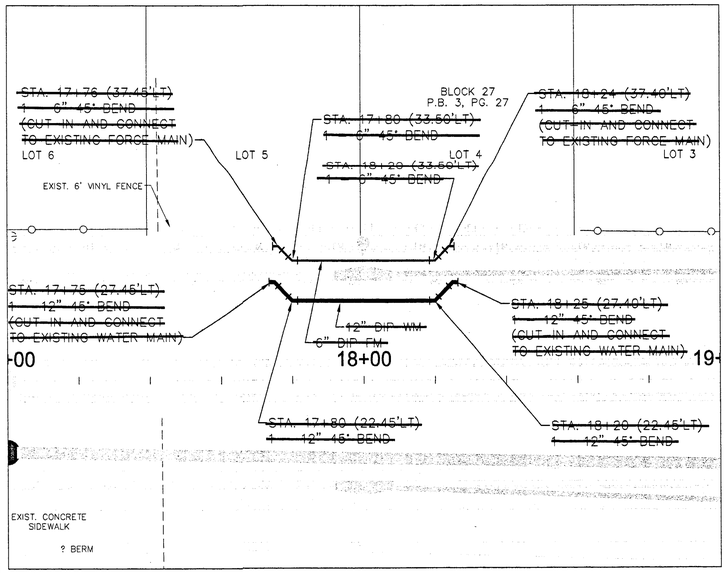
APPROVED BY:

DATE:

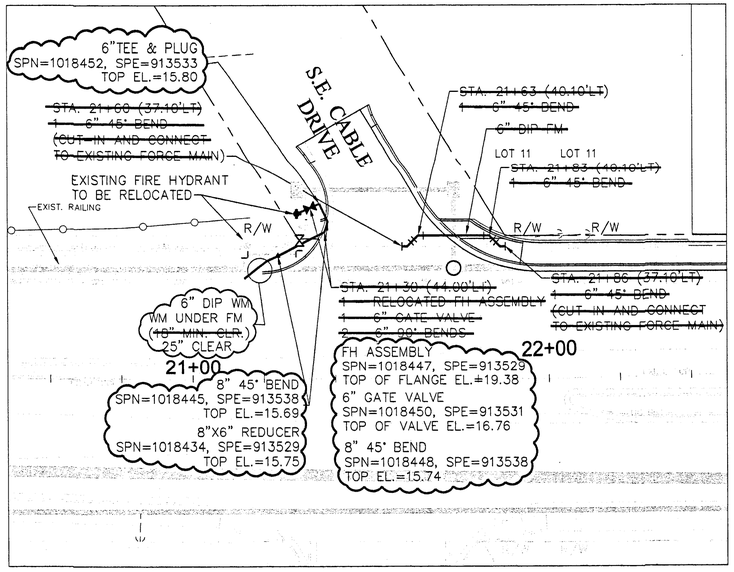
LINDAHL, BROWNING, FERRARI & HELLSTROM, INC.
CONSULTING ENGINEERS, PLANNERS & SURVEYORS
PALM CITY FORT PIERCE WEST PALM BEACH OKEECHOBEE

PLAN & PROFILE
COVE ROAD

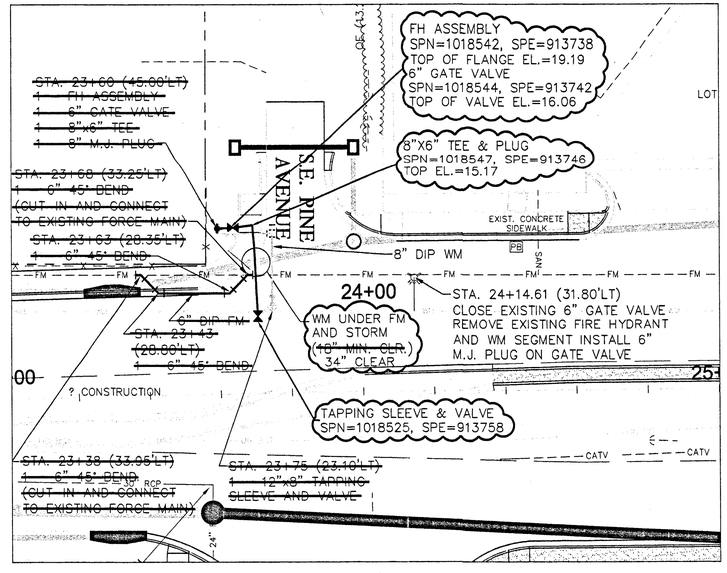
SW-SWW-WILLOUGHBY-BLVD-01-23



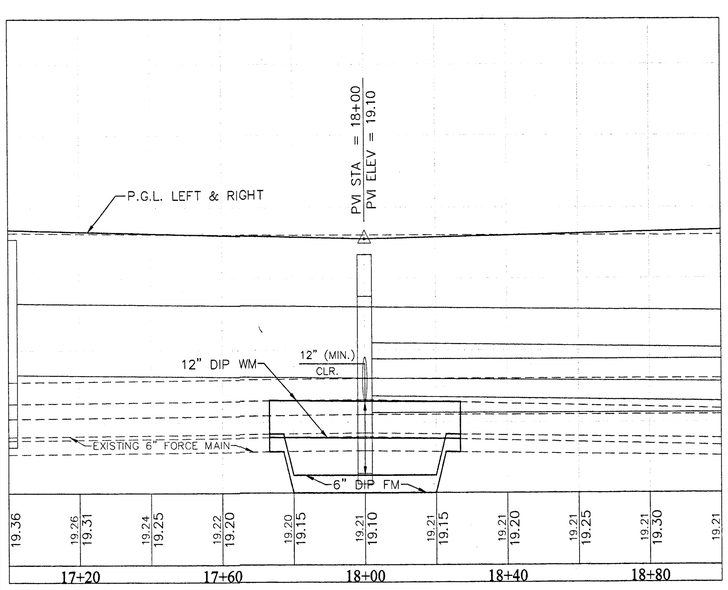
UTILITY ADJUSTMENT PLAN
(STA: 17+00 TO 19+00)



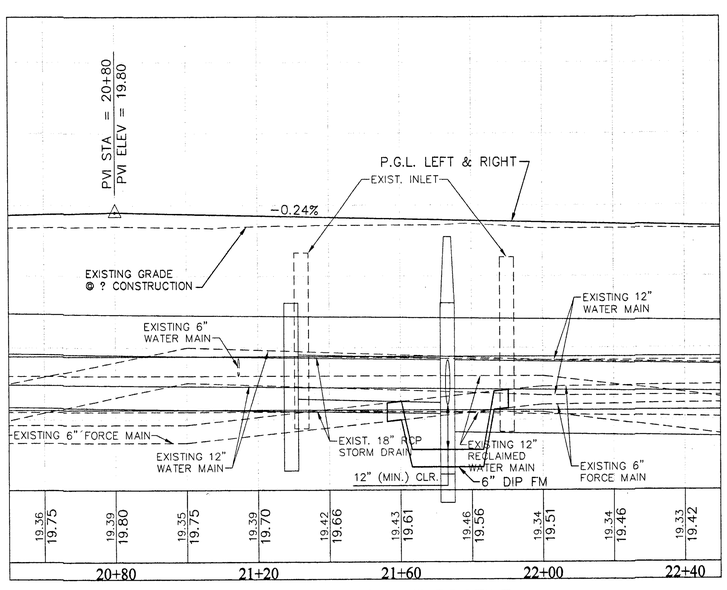
UTILITY ADJUSTMENT PLAN
(STA: 20+50 TO 22+50)



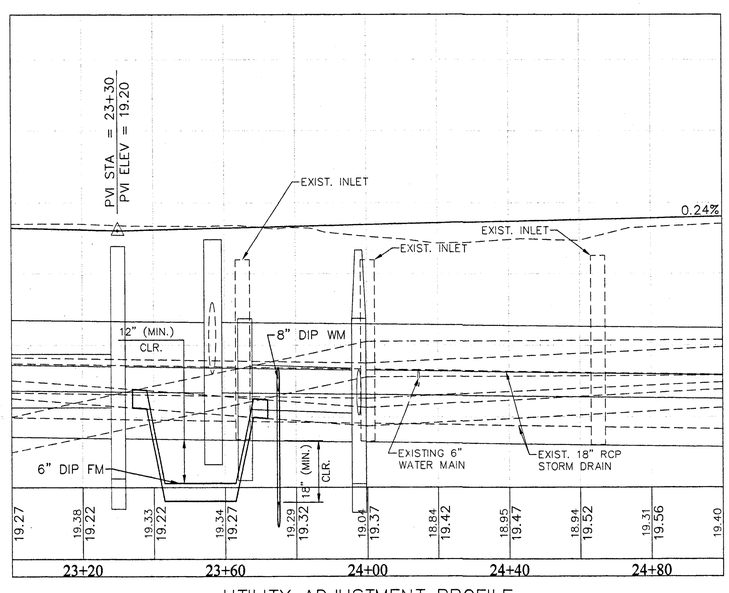
UTILITY ADJUSTMENT PLAN
(STA: 23+00 TO 25+00)



UTILITY ADJUSTMENT PROFILE
(STA: 17+00 TO 19+00)



UTILITY ADJUSTMENT PROFILE
(STA: 20+50 TO 22+50)



UTILITY ADJUSTMENT PROFILE
(STA: 23+00 TO 25+00)

THIS LINE ——— IS ONE INCH LONG WHEN PLOTTED FULL SCALE

NO.	DATE	DESCRIPTION OF REVISION
1	01-02-09	REVISED FOR UTILITY ADJUSTMENTS
0	01-20-08	INITIAL ISSUE

JORDAN, JONES & GOULDING
3300 PGA BOULEVARD, SUITE 780
PALM BEACH GARDENS, FLORIDA 33410
561-799-3855 (PHONE)
561-799-6579 (FAX)
FLORIDA COA #5397

MARTIN COUNTY,
FLORIDA

JAMES R. CHAPMAN
P.E. NO. 37245

US HIGHWAY 1/COVE ROAD
INTERSECTION IMPROVEMENTS

UTILITY ADJUSTMENT PLAN & PROFILE

DESIGNED: JRC	CHECKED:	DATE: JANUARY 2008	C6.01	1
DRAWN: JCG	JOB NO. 02403.008	SCALE: SCALE	SHEET	REV

Keith and Schnars
ENGINEERS PLANNERS SURVEYORS
141 S.W. Flagler Avenue • (305) 287-1224 • Stuart, Florida 34994

DATE	REVISIONS
10/92	ADDED C&G STA.
11/92	CORRECTED CENTER DITCH SLOPES
10/96	TO RECORDINED
4/20/00	ADD 12" FORCE MAIN
8/18/00	REVISED CONSTRUCTION DRAWINGS

DATE	7/11/89
SCALE	H-1"=50' V-1"=5'
FIELD BK.	N/A
DWNG. BY	HLT
CHECKED BY	SKM

COVE ROAD

FORCE MAIN

CAPTEC Engineering, Inc.
Civil Engineering Professionals
• 1870 S.E. Port St. Lucie Blvd. Port St. Lucie Fl 34952 Phone: (561) 398-8182 Fax: (561) 398-8180 Email: Captec@aol.com
• 950 East Parkway Stuart, Florida 34996
Engineering Business No. EB-0007657

SIQ-COVEROAD-96-006

GCY SHEET 6 OF 15
SWW-COVE-RD-FM-00-06

STA. 228+~~26~~ ~~LT~~ 0.5' LT
INSTALL AIR RELEASE VALVE

INSTALL AUTOMATIC AIR RELEASE VALVE ASSEMBLY

DEFLECT FORCE MAIN UNDER STORM W/18" MIN. CLR.

Both RCP 16.0S
20' D.I.P. 14.25
I.Q. MAIN UNDER STORM ~~22~~ CLEAR 1.80'
ONE FULL JOINT D.I.P. CENTERED AT CROSSING

NOTE:
PROPOSED FORCE MAIN SHALL BE PVC C-900 UNLESS OTHERWISE NOTED BY PLAN/PROFILE OF A DIRECTIONAL BORE WHERE HDPE SDR 11 IS REQUIRED. (TYP)

DEFLECT FORCE MAIN UNDER STORM W/18" MIN. CLR.

Both RCP 16.0S
20' D.I.P. 14.29
I.Q. MAIN UNDER STORM ~~22~~ CLEAR 1.76'
ONE FULL JOINT D.I.P. CENTERED AT CROSSING

INSTALL 12" GV

SCALE 1"=50'

MATCHLINE STA 228+00
SEE SHT. 13 OF 63

MATCHLINE STA 243+00
SEE SHT. 15 OF 63

ASPHALT DRIVEWAY W/ CULVERT. REMOVE AND REPLACE AS REQUIRED.

CONSTRUCT 12" I.Q. MAIN C-900

TWO ASPHALT DRIVEWAYS W/CULVERT. REMOVE AND REPLACE AS REQUIRED.

STA. ~~24+00~~ 24+38.7 13.7' LT
INSTALL 1-12" GV.

C12	
P.I.	STA. 233+05.0
- Δ	STA. (23.8' RT.)
Δ =	1.05°
D_c =	10°
T =	523.45'
L =	1046.87'
R =	57325.70'
e =	0
P.C.	STA. 227+81.5
- Δ	STA. (22.6' RT.)
P.T.	STA. 238+28.4
- Δ	STA. (15.5' RT.)

C13	
P.I.	STA. 233+04.8
- Δ	STA. (6.2' LT.)
Δ =	1.05°
D_c =	10°
T =	523.18'
L =	1046.33'
R =	57295.70'
e =	0
P.C.	STA. 227+81.6
- Δ	STA. (7.4' LT.)
P.T.	STA. 238+27.9
- Δ	STA. (14.5' LT.)

S-20
STA. 231+08.19' LT.
CONST. 44 L.F. OF 12"x18" OVAL RCP WITH FLARED ENDS
N. INV. = 16.30
S. INV. = 16.30

S-20A Not In
STA. 231+08.35' RT.
CONST. 44 L.F. OF 12"x18" OVAL RCP WITH FLARED ENDS
N. INV. = 16.30
S. INV. = 16.30

S-21A Not In
STA. 231+08.10' RT.
CONST. 8 L.F. OF 15" RCP WITH FLARED ENDS
N. INV. = 16.30
S. INV. = 6.50

S-22
STA. 239+03.29' LT.
CONST. 44 L.F. OF 12"x18" OVAL RCP WITH FLARED ENDS
N. INV. = 16.30
S. INV. = 16.30

S-22A Not In
STA. 239+03.27' RT.
CONST. 44 L.F. OF 12"x18" OVAL RCP WITH FLARED ENDS
N. INV. = 16.30
S. INV. = 16.30

INSTALL AUTOMATIC AIR RELEASE VALVE ASSEMBLY

+0.08%
-0.66%
-0.25%
+0.00%
+0.20%
+0.20%
4.5' MIN. COVER @ PGL.
12" PVC FORCE MAIN
PGL
I FULL JOINT OF D.I.P. CENTERED ON POINT OF CROSSING
18" MIN. CLR.
INSTALL 12" GV.
CENTER DITCH GRADE LINE
NORTH & SOUTH DITCH GRADE LINE
NORTH & SOUTH DITCH PI (+0.00) 17.20
DITCH PI (+0.00) 16.30
CENTER DITCH PI (+35.00) 16.50
DITCH PI (+0.00) 19.20

THIS SET OF PLANS FOR FORCE MAIN CONSTRUCTION ONLY

RECORD DRAWING
THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED TO OR LOCATED BY G.C.Y., INC.
DATE: _____
DAVID W. SCHRYVER
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATION #4864

LEGEND:
* : DENOTES RECORD INFORMATION
L.O.N.E.L. : DENOTES O.O. LEFT OF NORTH EASEMENT LINE
R.O.F. : DENOTES O.O. RIGHT OF FENCE
L.O.F. : DENOTES O.O. LEFT OF FENCE
R.O.R/W : DENOTES O.O. RIGHT OF R/W
L.O.R/W : DENOTES O.O. LEFT OF R/W
R.O.E.O.P. : DENOTES O.O. RIGHT OF EDGE OF PAVEMENT
L.O.E.O.P. : DENOTES O.O. LEFT OF EDGE OF PAVEMENT
R.O.S/W : DENOTES O.O. RIGHT OF SIDEWALK

RECORD DRAWING

12" RECLAIMED WATER MAIN
for MARTIN COUNTY UTILITIES
L.B.F.H. PROJECT No. 94-016 SHEET 7 OF 15

GCY SHEET 7 OF 15
SW-COVE-RD-FM-00-07

Keith and Schnars
ENGINEERS PLANNERS SURVEYORS
141 S.W. Flagler Avenue • (305) 287-2626 • Stuart, Florida 34994

DATE	REVISIONS
11/92	ADDED PHASE 2 TURN LANE
10/96	RE-RECORDINED
4/26/00	ADD 12" FORCE MAIN
8/8/00	REVISED CONSTRUCTION SEQUENCE

DATE 7/11/89
SCALE H-1"=50' V-1"=5'
FIELD BK. N/A
DWNG. BY HLT
CHECKED BY SKM

COVE ROAD
FORCE MAIN

CAPTEC Engineering, Inc.
Civil Engineering Professionals
• 1870 S.E. Port St. Lucie Blvd. Port St. Lucie Fl 34952 Phone: (561) 398-8182 Fax: (561) 398-8180 E-mail: Captec@aol.com
• 950 East Parkway Stuart, Florida 34996
Engineering Business No. EB-0007657

SIG-COVEROAD-96-007

HORIZONTAL DIRECTIONAL BORE 120± OF 12" HDPE - SDR 11 (WITH DIP O.D.) 120' OF 12"

EXIST. 6" P.E. GAS MAIN

STA. 247+23.7 11.6' RT. INSTALL AIR RELEASE VALVE.

INSTALL AUTOMATIC AIR RELEASE VALVE ASSEMBLY

CONST 20 L.F. OF 15" R.C.P. W/MITERED ENDS

OPEN CUT AND REPAIR DRIVEWAY

NOTE: PROPOSED FORCE MAIN SHALL BE PVC C-900 UNLESS OTHERWISE NOTED BY PLAN/PROFILE OF A DIRECTIONAL BORE WHERE HDPE SDR 11 IS REQUIRED. (TYP)

DEFLECT FORCE MAIN AROUND EXIST. POWER POLE HOLD POLE AS NECESSARY

ASPHALT DRIVEWAY W/CULVERT REMOVE AND REPLACE AS REQUIRED

Gott R&P 16"89
20" D.I.P 14"98

DEFLECT FORCE MAIN UNDER STORM W/18" MIN. CLR.

INSTALL 12" GV

CONST 56 L.F. 15" R.C.P W/MITERED ENDS

OPEN CUT AND REPAIR DRIVEWAY

SCALE: 1"=50'

BRUSH

EXIST. CEDAR TO BE RELOCATED TO PROP. R/W

PROP. T-L

244+00 AIR RELEASE VALVE

PROP. MEDIAN/SWALE

230' TAPER

100' STORAGE

PROP. T-L PHASE 2

PROP. SIDEWALK PHASE 2

EXIST. R/W

DENSE TREES

MATCHLINE STA 243+00 SEE SHT. 14 OF 63

CONSTRUCT 12" I.Q. MAIN C-900

ASPHALT AND SAND W/CULVERT REMOVE AND REPLACE AS REQUIRED.

ASPHALT DRIVEWAY W/CULVERT REMOVE AND REPLACE AS REQUIRED

12" PVC FORCE MAIN

EXIST. TRAVELWAY

PROP. MEDIAN/SWALE

PROP. SIDEWALK PHASE 1

PROP. T-L PHASE 1

S-23

S-23A 256+57.9 33' RT

STA 256+62.5 LT. INSTALL 12" G.V.

R/W P.I. STA. 256+38.54 115.59' RIGHT

ASPHALT DRIVEWAY W/CULVERT. REMOVE AND REPLACE AS REQUIRED

MATCHLINE STA 250+00 SEE SHT. 16 OF 63

C14	C15	C16	C17
P.I. STA. 247+88.1 = ℄ STA. (0.2' RT.)	P.I. STA. 247+88.9 = ℄ STA. (29.8' LT.)	P.I. STA. 256+28.2 = ℄ STA. (62.7' RT.)	P.I. STA. 256+29.2 = ℄ STA. (32.7' RT.)
Δ = 5.17°	Δ = 5.17°	Δ = 4.88°	Δ = 4.88°
D_C = 5°	D_C = 5°	D_C = 7.5°	D_C = 7.5°
T = 515.96'	T = 518.31'	T = 325.51'	T = 324.23'
L = 1033.21'	L = 1035.92'	L = 650.62'	L = 648.07'
R = 11459.16'	R = 11489.16'	R = 7639.44'	R = 7609.44'
e = 0	e = 0	e = 0	e = 0
P.C. STA. 242+71.2 = ℄ STA. (8.4' RT.)	P.C. STA. 242+70.7 = ℄ STA. (21.6' LT.)	P.C. STA. 253+03.6 = ℄ STA. (38.5' RT.)	P.C. STA. 253+05.8 = ℄ STA. (8.6' RT.)
P.T. STA. 253+03.6 = ℄ STA. (38.5' RT.)	P.T. STA. 253+05.8 = ℄ STA. (8.6' RT.)	P.T. STA. 259+53.7 = ℄ STA. (59.1' RT.)	P.T. STA. 259+53.4 = ℄ STA. (29.1' RT.)

SOUTHERN RESOURCE MAPPING of MIAMI (305) 621-9396 JOB NO. 89105M

243+40 16' LT EL. 15.13 GND. 18.71
244+40 17' LT EL. 15.22 GND. 18.45
245+40 17' LT EL. 15.22 GND. 18.82
246+40 17' LT EL. 15.71 GND. 19.85
247+40 13.5' LT EL. 16.07 GND. 19.19
248+40 12' LT EL. 16.21 GND.
249+8.5' LT EL. 16.17 GND. 19.25
250+40 4' LT EL. 16.14 GND. 19.13
251+40 1' RT EL. 15.69 GND. 18.73
252+40 7' RT EL. 15.57 GND. 18.91
253+40 14' RT EL. 15.82 GND. 19.28
254+40 21' RT EL. 15.88 GND. 19.44
255+40 27' RT EL. 16.11 GND. 19.63
256+40 31' RT EL. 16.33 GND. 19.38
257+40 34' LT EL. 16.48 GND. 19.34
258+40 35' LT EL. 16.44 GND. 19.30

(S-23) STA. 255+19.10 LT. CONST 44 L.F. OF 12"x18" OVAL R.C.P. WITH FLARED ENDS N. INV. = 17.14 S. INV. = 17.14

(S-23A) STA. 255+19.62 RT. CONST 44 L.F. OF 12"x18" OVAL R.C.P. WITH FLARED ENDS N. INV. = 17.14 S. INV. = 17.14

CONTRACTOR TO VERIFY LOCATION AND DEPTH OF EXISTING GAS MAIN PRIOR TO DRILLING

INSTALL AUTOMATIC AIR RELEASE VALVE ASSEMBLY

EXIST. GRADE ℄ SURVEY

PGL

+0.20% +0.55% +1.82% +1.36% +0.20% +0.58% +0.58% +0.52% -0.02%

CENTER DITCH GRADE LINE

NORTH DITCH GRADE LINE

SOUTH DITCH GRADE LINE

12" SOLID SLEEVE

12" PVC FORCE MAIN

4.5' MIN. COVER

3' MIN. CLR. 23"

8" INSTALL 12" GV 255+42

FULL JOINT OF D.I.P. CENTERED ON POINT OF CROSSING

CENTER DITCH P.I. (+90.00) 17.79
NORTH DITCH P.I. (+90.00) 17.00
CENTER DITCH P.I. (+40.00) 19.68
NORTH DITCH P.I. (+52.00) 19.00
NORTH DITCH P.I. (+90.00) 17.90
SOUTH DITCH P.I. (+90.00) 17.90
CENTER DITCH P.I. (+15.00) 20.00
NORTH DITCH P.I. (+10.00) 17.28
CENTER DITCH P.I. (+20.00) 18.18
CENTER DITCH P.I. (+10.00) 17.44

RECORD DRAWING
THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED TO OR LOCATED BY G.C.Y., INC.

DATE:

DAVID W. SCHRYVER
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATION #4864

LEGEND:

* . . . . *	DENOTES RECORD INFORMATION
L.O.E.L.F. :	DENOTES 0.0' LEFT OF NORTH EASEMENT LINE
R.O.F. :	DENOTES 0.0' RIGHT OF FENCE
L.O.F. :	DENOTES 0.0' LEFT OF FENCE
R.O.R/W :	DENOTES 0.0' RIGHT OF R/W
L.O.R/W :	DENOTES 0.0' LEFT OF R/W
R.O.E.O.P. :	DENOTES 0.0' RIGHT OF EDGE OF PAVEMENT
L.O.E.O.P. :	DENOTES 0.0' LEFT OF EDGE OF PAVEMENT
R.O.S/W :	DENOTES 0.0' RIGHT OF SIDEWALK

THIS SET OF PLANS FOR FORCE MAIN CONSTRUCTION ONLY

RECORD DRAWING

12" RECLAIMED WATER MAIN
for MARTIN COUNTY UTILITIES
L.B.F.H. PROJECT No. 94-016 SHEET 8 OF 15

Keith and Schnars
P.A. ENGINEERS • PLANNERS • LANDSCAPE ARCHITECTS
Stuart, Florida 34994

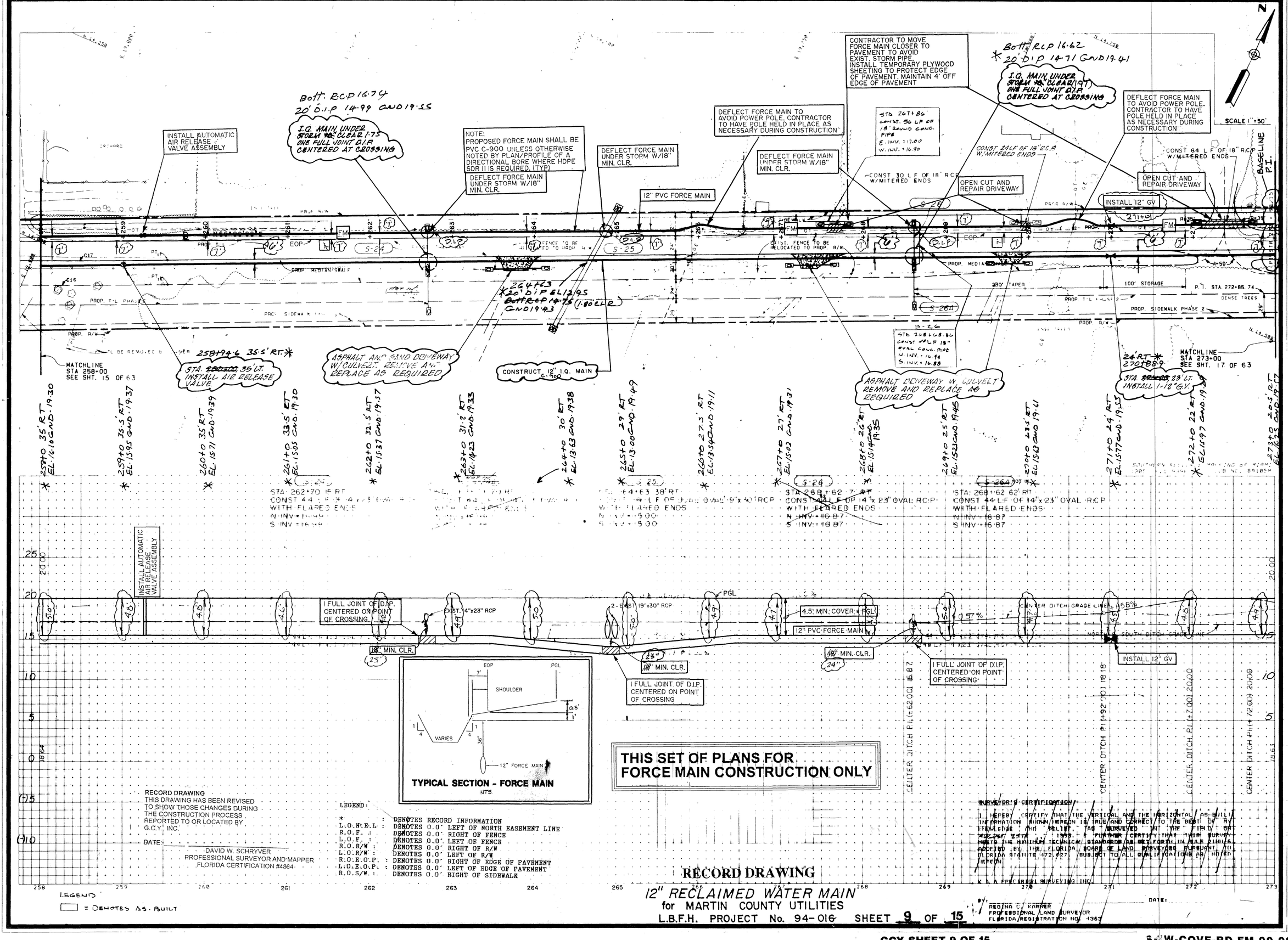
DATE	REVISIONS
10/96	RECORD DRAWING
4/20/98	ADD 12" FORCE MAIN
5/8/00	REVISED CONSTRUCTION QUANTITIES

DATE 7/11/89
SCALE ~~1"=50'~~ 1"=50'
FIELD BK. N/A
DWNG. BY ~~HLT~~
CHECKED BY ~~SKM~~

COVE ROAD
FORCE MAIN

CAPTEC Engineering, Inc.
Civil Engineering Professionals
• 1870 S.E. Port St. Lucie Blvd. Port St. Lucie, Florida 34952 Phone: (561) 398-8182 Fax: (561) 398-8180 E-mail: Captec@aol.com
• 950 East Parkway Stuart, Florida 34996
Engineering Business No. EB-0007657

GCY SHEET 8 OF 15
SWW-COVE-RD-FM-00-08
SW COVEROAD-96-008



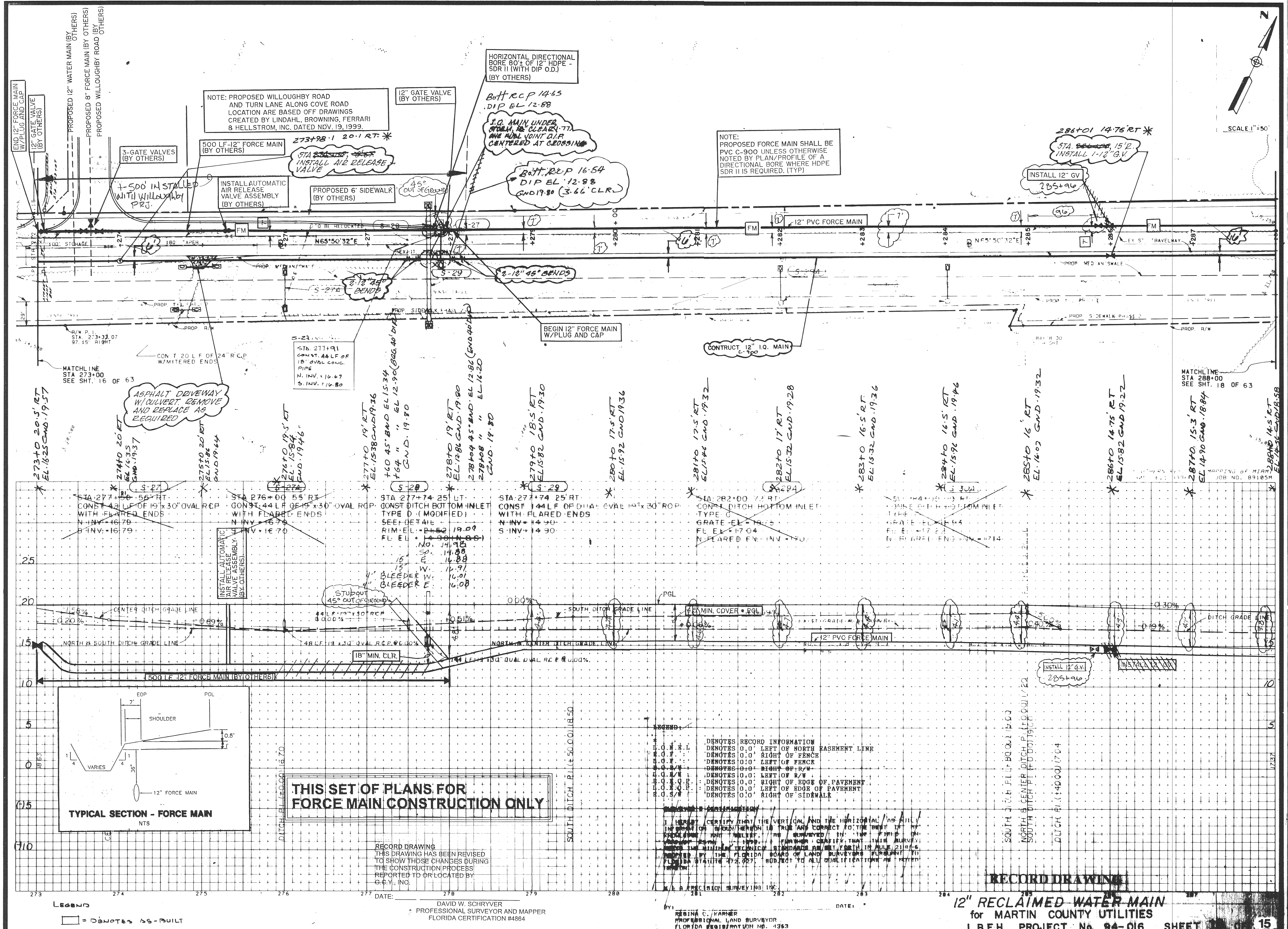
Keith and Schnars
ENGINEERS · PLANNERS · SURVEYORS
141 S.W. Flagler Avenue · (305) 287-2626 · Stuart, Florida 34994

DATE	REVISIONS
9-93	ADDED 4" & 6" ASBUILT DATA & REVISED ENGINEERING INFO.
1-20-94	ASBUILT S-26 K&A
10/96	EQ. RECORD IND.
4/28/00	ADD 12" FORCE MAIN
8/19/00	REVISED CONSTRUCTION DRAWINGS

DATE 7/11/89
SCALE H-1"=50' V-1"=5'
FIELD BK. N/A
DWN. BY HLT
CHECKED BY SKM

COVE ROAD
FORCE MAIN

CAPTEC Engineering, Inc.
Civil Engineering Professionals
• 1870 S.E. Port St. Lucie Blvd. Port St. Lucie Fl 34952 Phone: (561) 398-8182 Fax: (561) 398-8183 E-mail: Captec@aol.com
• 950 East Parkway Stuart, Florida 34996
Engineering Business No. EB-0007657



12" RECLAIMED WATER MAIN
for MARTIN COUNTY UTILITIES
L.B.F.H. PROJECT No. 94-016 SHEET OF 15

Keith and Schnars
ENGINEERS PLANNERS SURVEYORS
141 S.W. Flagler Avenue • Stuart, Florida 34994 • (305) 287-2626

DATE	REVISIONS
9-93	
10/96	I.Q. RECORD INFO
4/26/00	ADD 12" FORCE MAIN
8/18/00	REVISED CONSTRUCTION DRAWINGS
10/9/00	REV. FM (BY OTHERS)

DATE	7/11/89
SCALE	H-1"=50' V-1"=5'
FIELD BK.	N/A
DWNG. BY	HLT
CHECKED BY	SKM

COVE ROAD
FORCE MAIN

CAPTEC Engineering, Inc.
Civil Engineering Professionals
Engineering Business No. EB-0007657

GCY SHEET 10 OF 15
SWW-COVE-RD-FM-00-10

OPEN CUT AND RESTORE EXIST. DRIVEWAY

CONST 24 L.F. OF 15" RCP W/MITERED ENDS

INSTALL AUTOMATIC AIR RELEASE VALVE ASSEMBLY

DEFLECT FORCE MAIN, UNDER STORM W/18" MIN CLR.

STA. 292+72 28 L.F. S. INV. 15.76 N. INV. 15.61

STA 294+0 CONST 48 L.F OF 18" OVAL CMC PIPE N. INV. 14.97 S. INV. 14.10

CONST 28 L.F OF 18" RCP W/MITERED ENDS

END EXIST. 6" F.M.

12" PVC FORCE MAIN

FUTURE EOP (BY OTHERS)

EOP (EXIST.)

EXIST. TRAVELWAY

PROP. SIDEWALK

DENSE TREES

PROP. T-L

N65°50'32"E

PROP. SIDEWALK PHASE 2

PROP. T-L PHASE 2

290+95 ARV 12" RT

CONSTRUCT 12" I.Q. MAIN

C18

P.I. STA. 288+76.9
= ℄ STA. (34.4 RT.)
Δ = 9.10°
Dc = 50°
T = 310.09'
L = 620.021
R = 11459.16'
e = 0
P.C. STA. 295+66.8
= ℄ STA. (35.6 RT.)
P.T. STA. 301+86.8
= ℄ STA. (15.0 RT.)

C19

P.I. STA. 299+21.7
= ℄ STA. (58.2' RT.)
Δ = 3.54°
Dc = 5°
T = 354.82'
L = 709.41'
R = 11483.18'
e = 0
P.C. STA. 296+86.9
= ℄ STA. (58.6' RT.)
P.T. STA. 302+76.1
= ℄ STA. (32.8' RT.)

MATCHLINE STA 288+00 SEE SHT. 17 OF 63

FUTURE ENTRANCE TO SUMMERFIELD (BY OTHERS)

END PROJECT

8"H RC-PEL 1375 20' DIP EL 12.00

I.Q. MAIN UNDER STORM, "CLEARLY" ONE FULL JOINT D.I.P. CENTERED AT CROSSING

NOTE: PROPOSED FORCE MAIN SHALL BE PVC C-900 UNLESS OTHERWISE NOTED BY PLAN/PROFILE OF A DIRECTIONAL BORE WHERE HDPE SDR 11 IS REQUIRED. (TYP)

CONST 24 L.F OF 18" RCP W/MITERED ENDS

INSTALL 12" GV

2-12" 45° BENDS

FUTURE EOP (BY OTHERS)

EXIST. 6" F.M.

EXIST. 12" I.Q. MAIN

INSTALL 1-12" G.V. AND TEST PLUG

FUTURE ROADWAY DESIGN AS PER KIMLEY-HORN AND ASSOCIATES, INC. PLANS DATED JUNE 2000

APPROXIMATE LOCATION OF PAVED ENTRANCE TO "SUMMER FIELD"

HORIZONTAL DIRECTIONAL BORE, 75 ± OF 12" HDPE - SDR 11 (WITH DIP O.D.)

R/W P.I. STA. 299+41.63 70.78' LEFT

STA 299+55 BEGIN TYPE 'F' CURB W/ FLARED END

S-32

S-34

S-35

S-33

INSTALL AUTOMATIC AIR RELEASE VALVE ASSEMBLY

STA 301+35 END TYPE 'F' CURB W/ FLARED END

SCALE 1"=50'

N66°17'36"E

EXIST. 6" F.M.

PROP. T-L PHASE 3

EXIST. 12" I.Q. MAIN

1" SEPARATION D.I.P.

DEFLECT FORCE MAIN UNDER STORM W/18" MIN. CLR.

12" DIP

LOCATION OF EXIST. 12" I.Q. MAIN TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION

MATCHLINE STA 303+00 SEE SHT. 19 OF 63

STA 299+84.7 CMC PIPE AVAIL. N. INV. = 14.55 S. INV. = 14.44

SOUTHERN RESOURCE MAPPING of MIAMI (305) 621-9396 JOB NO. 89185M

S-31

STA: 293+00 5.0' RT.
CONST 48 L.F. OF 18" RCP WITH FLARED ENDS
N. INV. = 14.00
S. INV. = 15.00

S-34

STA: 299+86.33' LT.
CONST DITCH BOTTOM INLET TYPE 8 (MODIFIED SEE DETAIL)
RIM EL. = 18.54 (18.54 ± MILL)
FL EL. = 15.03 (S) 14.03
(E) 15.84
(N) 15.38
(W) 15.84
N. FLARED END INV. = 14.31 14.81
S. FLARED END INV. = 14.13
W. FLARED END INV. = 14.00
W. P.B. BLEEDER

S-33

STA: 301+35
CONST 96 L.F OF 18" RCP WITH FLARED ENDS
N. INV. = 16.20
S. INV. = 14.71

S-34

STA: 301+50 45° LT.
CONST 24 L.F OF 15" RCP WITH FLARED ENDS
E. INV. = 16.20
W. INV. = 15.20

S-35

STA: 302+90 30° LT.
CONST DITCH BOTTOM INLET TYPE G
GRATE EL. = 18.20
FL EL. = 15.61 (S)
S. FLARED END INV. = 15.59

INSTALL AUTOMATIC AIR RELEASE VALVE ASSEMBLY

EXIST. 18" R.C.P.

EXIST. PIPE

SOUTH DITCH GRADE LINE

NORTH DITCH GRADE LINE

CENTER DITCH GRADE LINE

6.5' MIN. COVER

PGL

EXISTING FORCE MAIN

8" MIN. CLR.

1 FULL JOINT OF D.I.P. CENTERED ON POINT OF CROSSING

INSTALL 12" GV

18" MIN. CLR.

80 L.F 18" RCP @ 0.5%

12" DIP

1 FULL JOINT OF D.I.P. CENTERED ON POINT OF CROSSING

PI EL = 10.00 @ STA 288+76.9

PI EL = 15.00 @ STA 295+66.8

PI EL = 10.00 @ STA 301+86.8

PI EL = 18.20 @ STA 302+90

LEGEND:

*	: DENOTES RECORD INFORMATION
L.O.N.E.L.	: DENOTES 0.0' LEFT OF NORTH EASEMENT LINE
R.O.F.	: DENOTES 0.0' RIGHT OF FENCE
L.O.F.	: DENOTES 0.0' LEFT OF FENCE
R.O.R/W	: DENOTES 0.0' RIGHT OF R/W
L.O.R/W	: DENOTES 0.0' LEFT OF R/W
R.O.E.O.P.	: DENOTES 0.0' RIGHT OF EDGE OF PAVEMENT
L.O.E.O.P.	: DENOTES 0.0' LEFT OF EDGE OF PAVEMENT
R.O.S/W	: DENOTES 0.0' RIGHT OF SIDEWALK

SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THAT THE VERTICAL AND THE HORIZONTAL MEASURED INFORMATION SHOWN HEREON IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AS SURVEYED IN THE FIELD ON AUGUST 25TH 1999. I FURTHER CERTIFY THAT SAID SURVEY MEETS THE MINIMUM TECHNICAL STANDARDS AS SET FORTH IN RULE 21HH-6, ADOPTED BY THE FLORIDA BOARD OF LAND SURVEYORS PURSUANT TO FLORIDA STATUTE 472.027, SUBJECT TO ALL QUALIFICATIONS AS NOTED HEREON.

K.E. & SCHNARS SURVEYING INC.

DATE:

PERRINA C. TURNER
PROFESSIONAL LAND SURVEYOR
FLORIDA REGISTRATION NO. 4363

RECORD DRAWING
THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED TO OR LOCATED BY G.C.Y., INC.

DATE:

DAVID W. SCHRYVER
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATION #4864

LEGEND
: DENOTES AS-BUILT

THIS SET OF PLANS FOR FORCE MAIN CONSTRUCTION ONLY

RECORD DRAWING

12" RECLAIMED WATER MAIN
for MARTIN COUNTY UTILITIES
L.B.F.H. PROJECT No. 94-016 SHEET 11 OF 15

GCY SHEET 11 OF 15
SWW-COVE-RD-FM-00-11

Keith and Schnars
P.A.
ENGINEERS PLANNERS SURVEYORS
141 S.W. Flagler Avenue • (305) 287-2626 • Stuart, Florida 34994

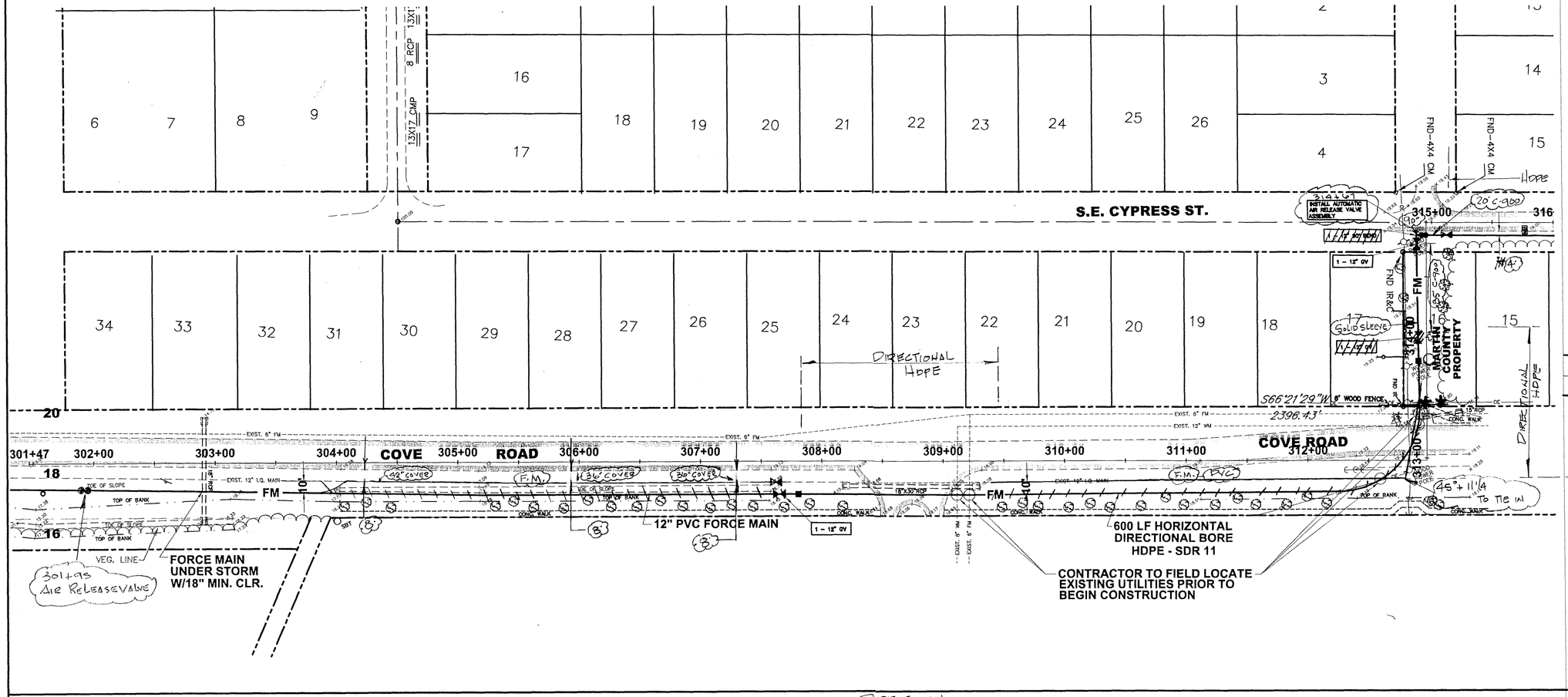
DATE	REVISIONS
10/92	ADDED C&G.
9-93	SHEETS 23-PAVING & DRAINAGE PLAN, 24-PAVING PLAN & PROFILE, 25-PAVING PLAN & PROFILE, ADDED SHT. 8-SI, LOCATE EXTRA STRUCT. K.B.A.
1-20-94	
10/96 4/20/00 9/18/00	SO. RECORD DRAWING AND 12" FORCE MAIN ADDED CONSTRUCTION REVISIONS

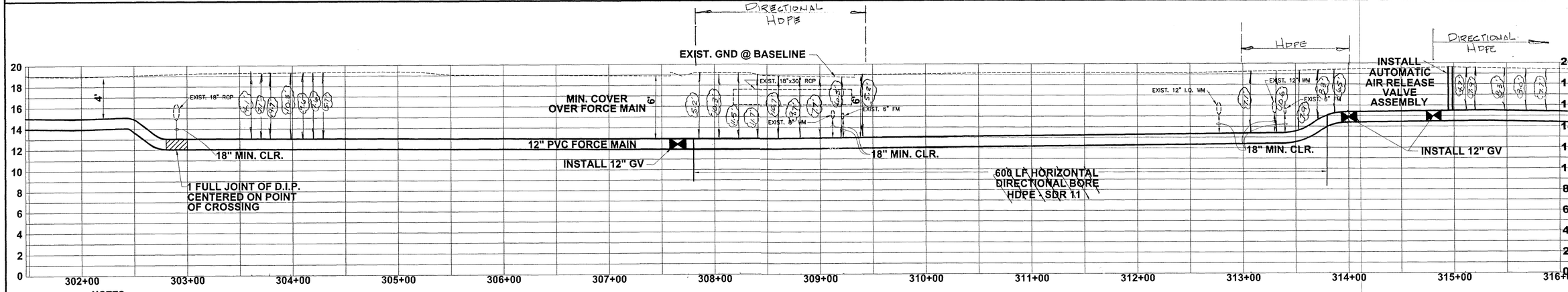
DATE 7/11/89
SCALE 1"=50'
FIELD BK. N/A
DWNG. BY HLT
CHECKED BY SKM

COVE ROAD

FORCE MAIN

CAPTEC Engineering, Inc.
Civil Engineering Professionals
• 1870 S.E. Port St. Lucie Blvd. Port St. Lucie Fl 34952 Phone: (561) 398-8182 Fax: (561) 398-8181 E-mail: Captec@aol.com
• 450 East Parkway Stuart, Florida 34996
Engineering Business No. EB-0007857





NOTES

1. CONTRACTOR TO MAINTAIN EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
2. CONTRACTOR TO MAINTAIN A MINIMUM OF 36" COVER OVER FORCE MAIN AT ALL TIMES. EXCEPT IN COVE ROAD R/W AS FIELD DETERMINED BY MARTIN COUNTY ENVIRONMENTAL SERVICES REPRESENTATIVE.
3. CONTRACTOR TO VERIFY THE LOCATIONS AND DEPTHS OF ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
4. CONTRACTOR TO SAWCUT AND REPAIR ALL DRIVEWAYS DISTURBED DURING CONSTRUCTION.
5. CONTRACTOR TO CONTRACTOR TO MAINTAIN MAIL BOXES AND DRIVEWAY ACCESS AT ALL TIMES
6. ANY ITEMS DAMAGED OR DISRUPTED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER.
7. PROPOSED FORCE MAIN SHALL BE PVC C-900 UNLESS OTHERWISE NOTED BY PLAN/PROFILE OF A DIRECTIONAL BORE WHERE HDPE SDR 11 IS REQUIRED. (TYP)

RECORD DRAWING
THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED TO OR LOCATED BY G.C.Y., INC.

DATE: _____ _____
DAVID W. SCHRYVER
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATION #4864

CLEARING AND GRUBBING:
THE CONTRACTOR WILL NOT CLEAR AND GRUB ANY SITE WITHOUT PRIOR CONFORMATION OF WETLAND AND UPLAND PRESERVATION REQUIREMENTS. ALL PRESERVATION AREAS WILL BE FENCED TO AVOID ENCROACHMENT AND WILL BE STRICTLY ENFORCED. CAPTEC ENGINEERING, INC., WILL NOT BE LIABLE FOR ENCROACHMENT BY CONTRACTOR WITHIN WETLAND/UPLAND PRESERVATION AREAS. CONTRACTOR IS CAUTIONED TO REVIEW ALL PERMITS AND CONSTRUCTION DOCUMENTS PRIOR TO THE CLEARING/GRUBBING PHASE.

CALL 48 HOURS BEFORE YOU DIG IN FLORIDA
1-800-432-4770
IT'S THE LAW!
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

CAPTEC Engineering, Inc.
Civil Engineering Professionals
• 1870 S.E. Port St. Lucie Blvd. Port St. Lucie Fl 34952 Phone: (561) 398-8182 Fax: (561) 398-8183 Email: Captec@aol.com
• 950 East Parkway Stuart, Florida 34996
Engineering Business No. EB-0007557

DATE: 4/17/00
DRAWN BY: BL
DESIGNED BY: WA
CHECKED BY: JWC
PROJECT No.: 052.8
HORZ. SCALE: AS SHOWN
VERT. SCALE: AS SHOWN
CADD FILE: COVE RD.

NO.	DATE	BY	REVISIONS
	8/16/00	JWC	REVISED CONSTRUCTION DRAWINGS

SCALE VERIFICATION
0 1
SOLID BAR IS EQUAL TO ONE INCH ON ORIGINAL DRAWING. ADJUST ALL SCALED DIMENSIONS ACCORDINGLY

COVE ROAD / HIBISCUS PARK FORCE MAIN
MARTIN COUNTY, FLORIDA

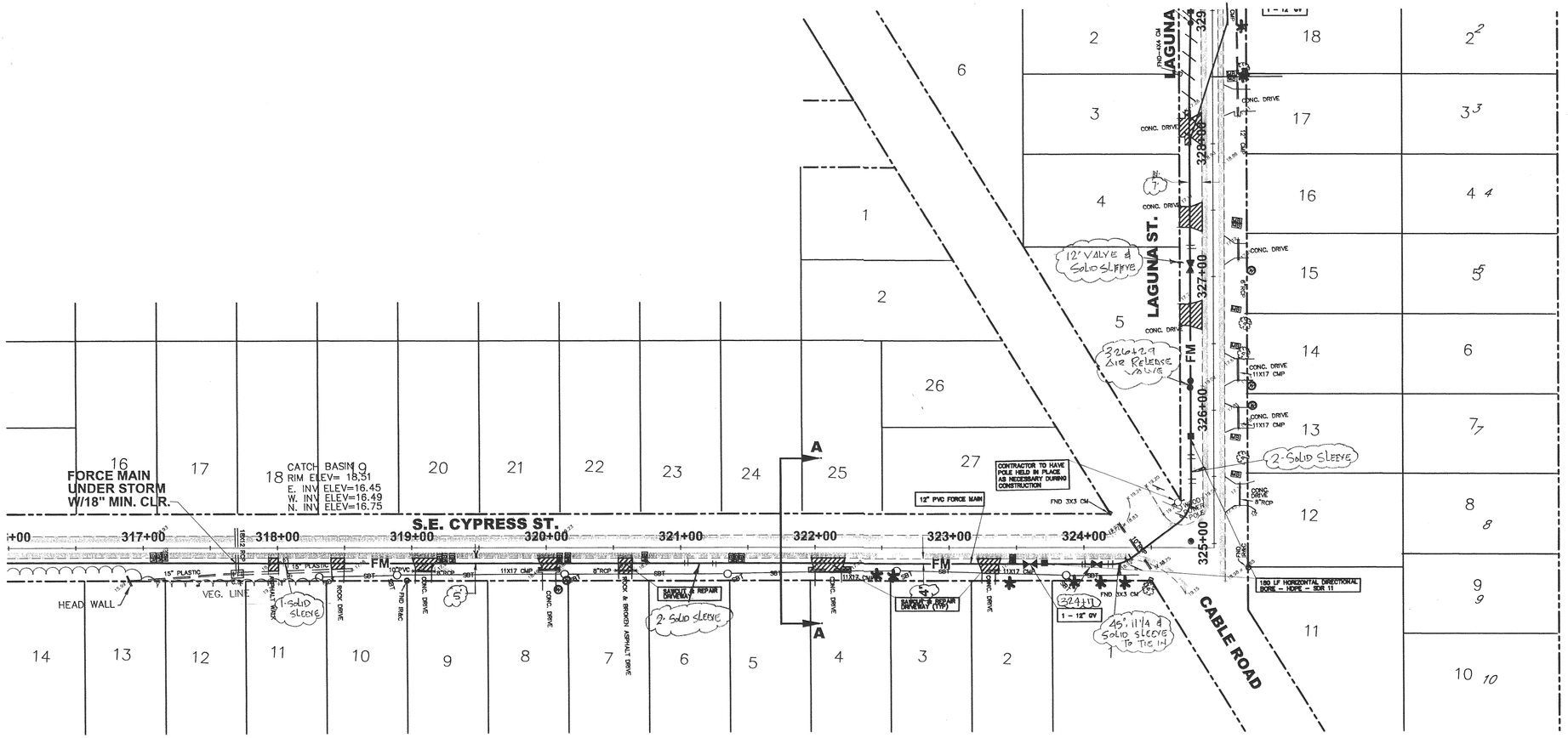
PLAN AND PROFILE

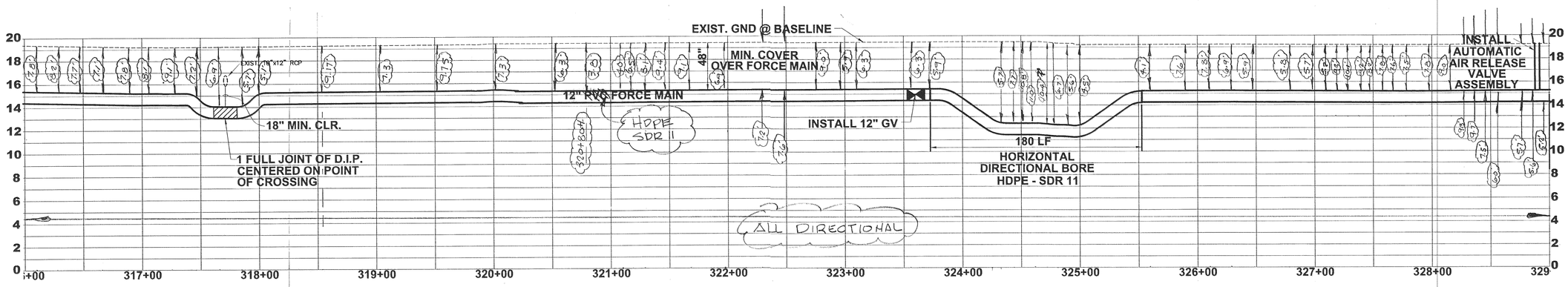
SEAL
DATE
NAME
Printed Date:

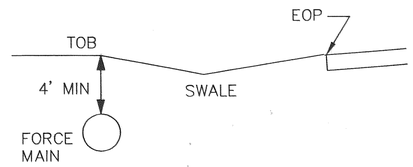
JOB No.: 052.8
SHEET 12 OF 15

GCY SHEET 12 OF 15
SWW-COVE-RD-FM-00-12

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 CAPTEC ENGINEERING, INC. SHALL BE WITHOUT LIABILITY TO CAPTEC ENGINEERING, INC.







SECTION A–A

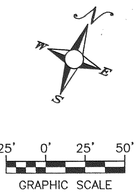
RECORD DRAWING
THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED TO OR LOCATED BY G.C.Y., INC.

DATE: _____ _____
DAVID W. SCHRYVER
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATION #4864

NOTE:
PROPOSED FORCE MAIN SHALL BE PVC C-900 UNLESS OTHERWISE NOTED BY PLAN/PROFILE OF A DIRECTIONAL BORE WHERE HDPE SDR 11 IS REQUIRED. (TYP)

CLEARING AND GRUBBING:
THE CONTRACTOR WILL NOT CLEAR AND GRUB ANY SITE WITHOUT PRIOR CONFORMATION OF WETLAND AND UPLAND PRESERVATION REQUIREMENTS. ALL PRESERVATION AREAS WILL BE FENCED TO AVOID ENCROACHMENT AND WILL BE STRICTLY ENFORCED. CAPTEC ENGINEERING, INC., WILL NOT BE LIABLE FOR ENCROACHMENT BY CONTRACTOR WITHIN WETLAND/UPLAND PRESERVATION AREAS. CONTRACTOR IS CAUTIONED TO REVIEW ALL PERMITS AND CONSTRUCTION DOCUMENTS PRIOR TO THE CLEARING/GRUBBING PHASE.

CALL 48 HOURS BEFORE YOU DIG IN FLORIDA
1-800-432-4770
IT'S THE LAW!
SUNSHINE STATE ONE CALL OF FLORIDA, INC.



LEGEND:

- SAWCUT AND RESTORE IN KIND
- FM — PROPOSED FORCE MAIN
- OE — EXISTING OVERHEAD ELECTRIC
- RIGHT-OF-WAY LINE (APPROXIMATE)
- MB EXISTING MAILBOX
- WM EXISTING WATER METER

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 CAPTEC ENGINEERING, INC. SHALL BE WITHOUT LIABILITY TO CAPTEC ENGINEERING, INC.

CAPTEC
Civil Engineering Professionals
Engineering, Inc.
• 1870 S.E. Port St. Lucie Blvd.
Port St. Lucie Fl 34952
Phone: (561) 398-8182
Fax: (561) 398-8160
E-mail: captec@captec.com
• 950 East Parkway
Stuart, Florida 34996
Engineering Business No. EB-0007667

DATE: 4/17/00
DRAWN BY: BL
DESIGNED BY: WA
CHECKED BY: JWC
PROJECT No.: 052.8
HORZ. SCALE: AS SHOWN
VERT. SCALE: AS SHOWN
CADD FILE: COVE RD.

NO.	DATE	BY	REVISIONS
	8/16/00	JWC	REVISED CONSTRUCTION DRAWINGS

SCALE VERIFICATION
0 1
SOLID BAR IS EQUAL TO ONE INCH ON ORIGINAL DRAWING. ADJUST ALL SCALED DIMENSIONS ACCORDINGLY.

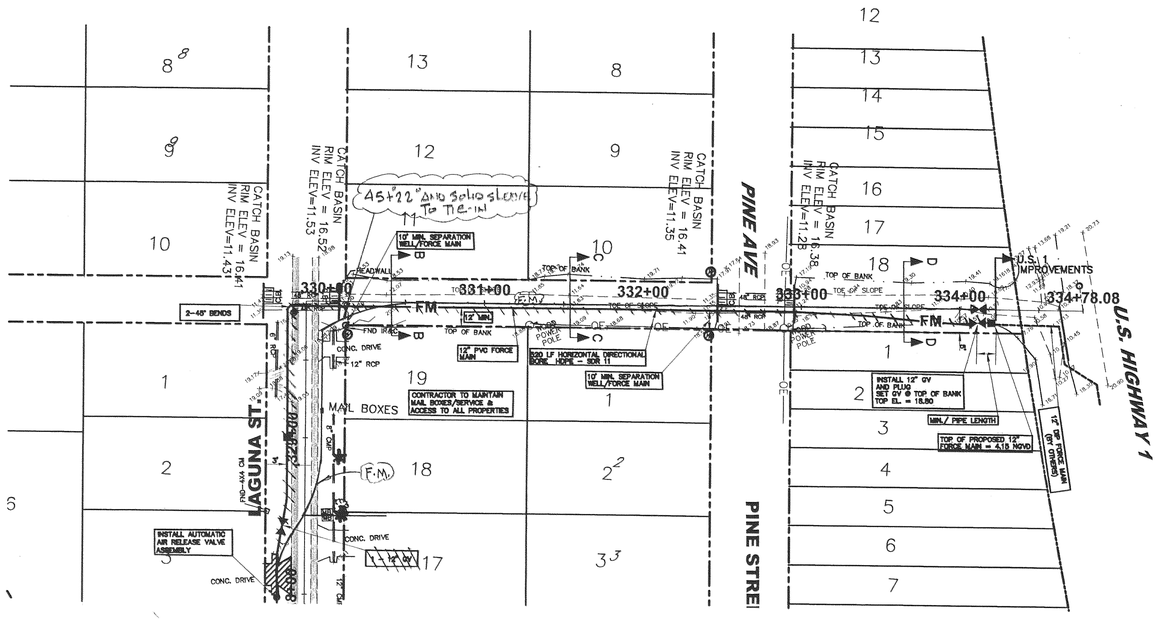
COVE ROAD / HIBISCUS PARK FORCE MAIN
MARTIN COUNTY, FLORIDA

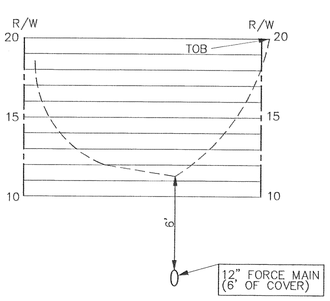
PLAN AND PROFILE

SEAL
DATE
NAME
Printed Date:

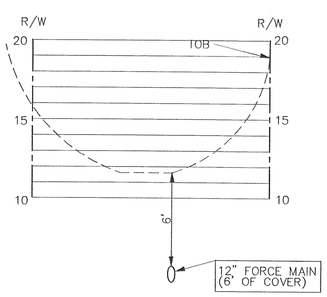
JOB No.: 052.8
SHEET 13 OF 15

GCY SHEET 13 OF 15
SWW-COVE-RD-FM-00-13

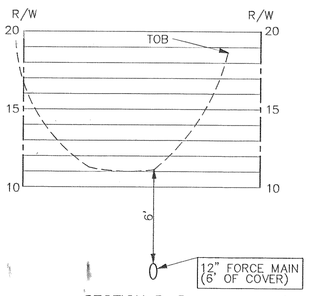




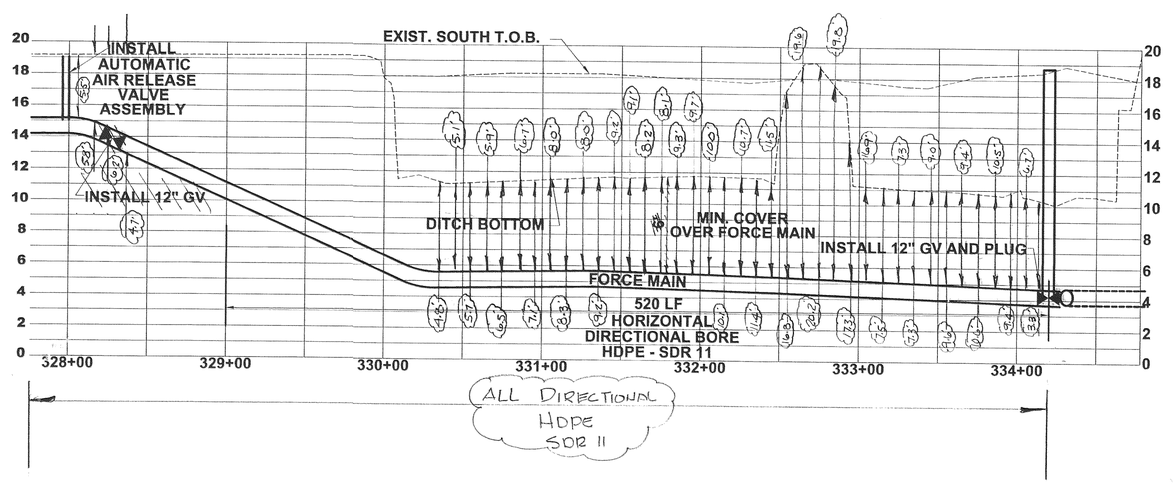
SECTION B–B
SCALE: H–1"=10'
V–1"=5'



SECTION C–C



SECTION D–D



NOTE:

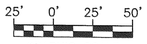
PROPOSED FORCE MAIN SHALL BE PVC C-900 UNLESS OTHERWISE NOTED BY PLAN/PROFILE OF A DIRECTIONAL BORE WHERE HDPE SDR 11 IS REQUIRED. (TYP)

RECORD DRAWING
THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED TO OR LOCATED BY G.C.Y., INC.

DATE: _____ _____
DAVID W. SCHRYVER
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATION #4864

CLEARING AND GRUBBING:
THE CONTRACTOR WILL NOT CLEAR AND GRUB ANY SITE WITHOUT PRIOR CONFORMATION OF WETLAND AND UPLAND PRESERVATION REQUIREMENTS. ALL PRESERVATION AREAS WILL BE FENCED TO AVOID ENCROACHMENT AND WILL BE STRICTLY ENFORCED. CAPTEC ENGINEERING, INC. WILL NOT BE LIABLE FOR ENCROACHMENT BY CONTRACTOR WITHIN WETLAND/UPLAND PRESERVATION AREAS. CONTRACTOR IS CAUTIONED TO REVIEW ALL PERMITS AND CONSTRUCTION DOCUMENTS PRIOR TO THE CLEARING/GRUBBING PHASE.





LEGEND:

- SAWCUT AND RESTORE IN KIND
- FM — PROPOSED FORCE MAIN
- OE — EXISTING OVERHEAD ELECTRIC
- RIGHT-OF-WAY LINE (APPROXIMATE)
- MB — EXISTING MAILBOX
- WM — EXISTING WATER METER
- DIRECTIONAL BORE LIMIT

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 CAPTEC ENGINEERING, INC. SHALL BE WITHOUT LIABILITY TO CAPTEC ENGINEERING, INC.

CAPTEC
Civil Engineering Professionals
Engineering, Inc.
Engineering Business No. EB-0021657
1970 S.E. Port St. Lucie Blvd. Port St. Lucie, FL 34952
Phone: (561) 398-8152
Fax: (561) 398-8180
E-mail: Captec1@aol.com
950 East Parkway Stuart, Florida 34996

DATE: 4/17/00
DRAWN BY: BL
DESIGNED BY: WA
CHECKED BY: JWC
PROJECT No.: 052.8
HORZ. SCALE: AS SHOWN
VERT. SCALE: AS SHOWN
CADD FILE: COVERD.

NO.	DATE	BY	REVISIONS
1	10/9/00	JWC	REV. FM/ADD SECTIONS
2	8/18/00	JWC	R2VISED CONSTRUCTION DRAWINGS

SCALE VERIFICATION
0 1
SOLID BAR IS EQUAL TO ONE INCH ON ORIGINAL DRAWING. ADJUST ALL SCALED DIMENSIONS ACCORDINGLY

COVE ROAD / HIBISCUS PARK FORCE MAIN
MARTIN COUNTY, FLORIDA

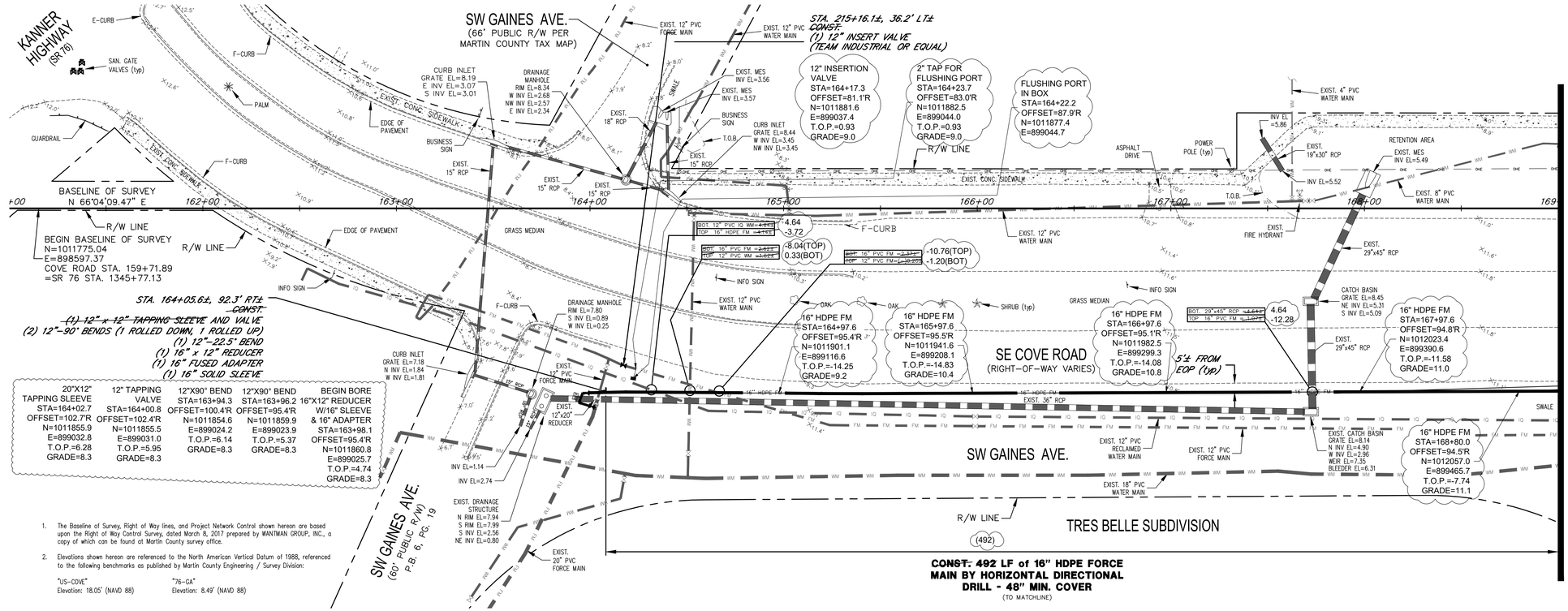
PLAN AND PROFILE

SEAL
DATE
NAME
Printed Date:

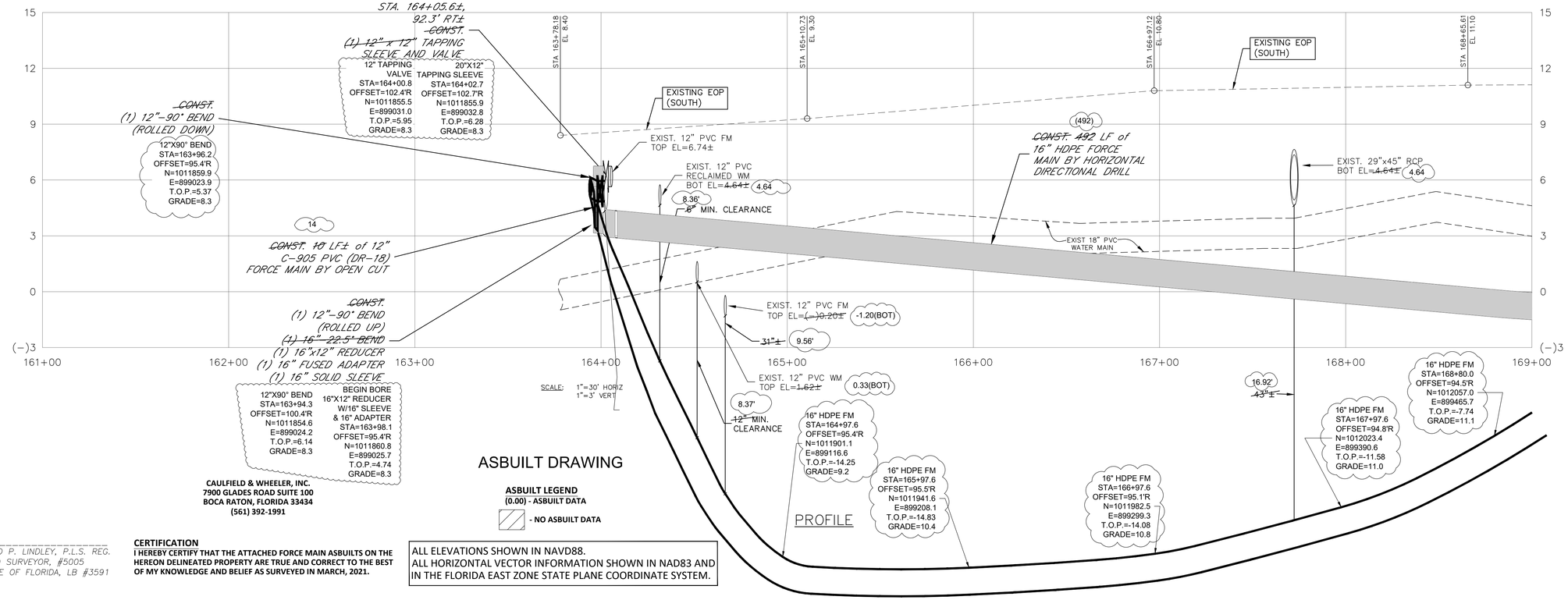
JOB No.: 052.8
SHEET 14 OF 15

CALL 48 HOURS BEFORE YOU DIG IN FLORIDA
1-800-432-4770
IT'S THE LAW!
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

GCY SHEET 14 OF 15
SWW-COVE-RD-FM-00-14



PLAN



DAVID P. LINDLEY, P.L.S. REG. LAND SURVEYOR, #5005 STATE OF FLORIDA, LB #3591

CERTIFICATION
I HEREBY CERTIFY THAT THE ATTACHED FORCE MAIN ASBUILTS ON THE HEREON DELINEATED PROPERTY ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AS SURVEYED IN MARCH, 2021.

ALL ELEVATIONS SHOWN IN NAVD88.
ALL HORIZONTAL VECTOR INFORMATION SHOWN IN NAD83 AND IN THE FLORIDA EAST ZONE STATE PLANE COORDINATE SYSTEM.

C&W #9131

Cove Road
MARTIN COUNTY, FL
FORCE MAIN EXTENSION
PLAN & PROFILE

REVISIONS	DATE	BY

DATE: AUG 2018
SCALE: AS SHOWN
DESIGN: SJV
DRAWN: SJV
CHECKED: J.A.C.
DWG: CoveRd-FMExt-PP.dwg

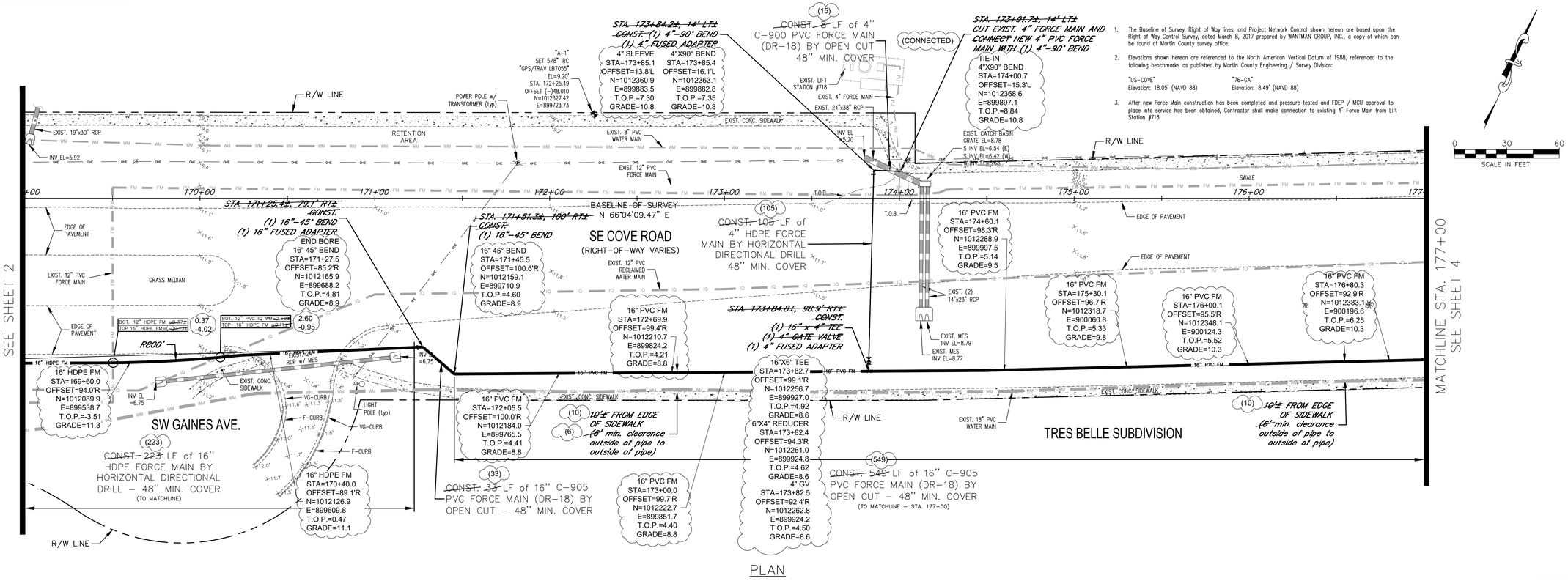
MARTIN COUNTY UTILITIES
2378 S.E. OCEAN BOULEVARD
STUART, FLORIDA 34995-9000
Phone: (772) 221-1442 Fax: (772) 221-1447

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JEREMY A. COVEY, P.E.
FLORIDA REGISTRATION
No. 75472

SHEET **2** OF **11**

Drawing name: P:\09131-00-00\drawings\Survey\ASBUILTS\09131 ASB FM COVE RD.dwg Sheet 2 Dec 23, 2022 8:54am by: Tommy

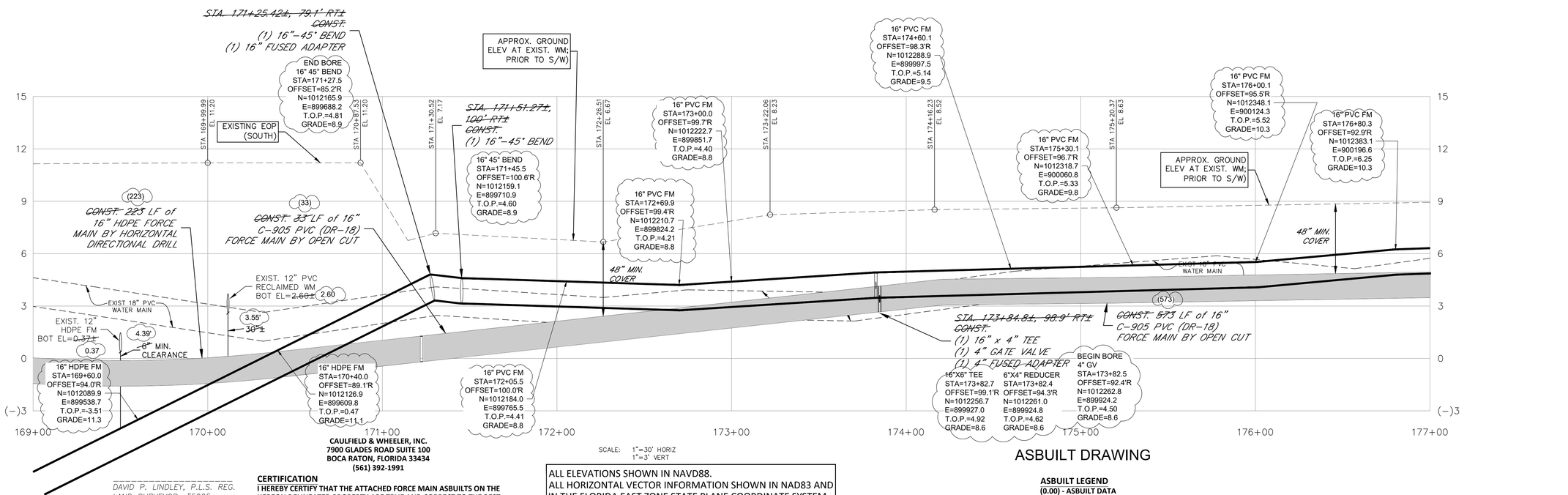


PLAN

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"US-COVE"	"76-GA"
Elevation: 18.05' (NAVD 88)	Elevation: 8.49' (NAVD 88)

3. After new Force Main construction has been completed and pressure tested and FDEP / MCU approval to place into service has been obtained, Contractor shall make connection to existing 4" Force Main from Lift Station #718.



PROFILE

SCALE: 1"=30' HORIZ
1"=3' VERT

ALL ELEVATIONS SHOWN IN NAVD88.
ALL HORIZONTAL VECTOR INFORMATION SHOWN IN NAD83 AND IN THE FLORIDA EAST ZONE STATE PLANE COORDINATE SYSTEM.

ASBUILT DRAWING

ASBUILT LEGEND
(0.00) - ASBUILT DATA
- NO ASBUILT DATA

CAULFIELD & WHEELER, INC.
7900 GLADES ROAD SUITE 100
BOCA RATON, FLORIDA 33434
(561) 392-1991

_____
DAVID P. LINDLEY, P.L.S. REG. LAND SURVEYOR, #5005 STATE OF FLORIDA, LB #3591

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Cove Road
MARTIN COUNTY, FL
FORCE MAIN EXTENSION
PLAN & PROFILE

REVISIONS	DATE	BY
ADDED CONNECTION TO NEW 16" FORCE MAIN FROM LIFT STATION # 718	5-5-20	SJV

DATE: AUG 2018
SCALE: AS SHOWN
DESIGN: SJV
DRAWN: SJV
CHECKED: J.A.C.
DWG: CoveRd-FMExt-PP.dwg

MARTIN COUNTY UTILITIES
2378 S.E. OCEAN BOULEVARD
STUART, FLORIDA 34995-9000
Phone: (772) 221-1442 Fax: (772) 221-1447

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JEREMY A. COVEY, P.E.
FLORIDA REGISTRATION
No. 75472

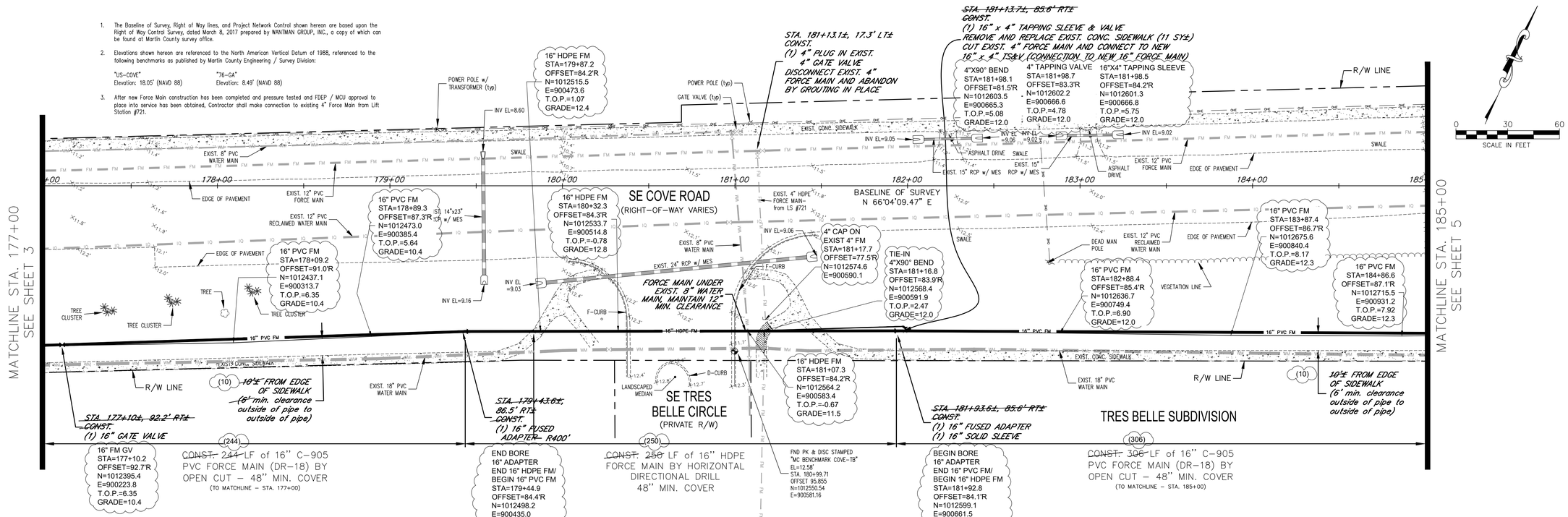
Drawing name: P:\09131-00-00\drawings\Survey\ASBUILTS\09131 ASB FM COVE RD.dwg Sheet 3 Feb 22, 2023 11:36am by: Tommy

1. The Baseline of Survey, Right of Way lines, and Project Network Control shown hereon are based upon the Right of Way Control Survey, dated March 8, 2017 prepared by WANTMAN GROUP, INC., a copy of which can be found at Martin County survey office.

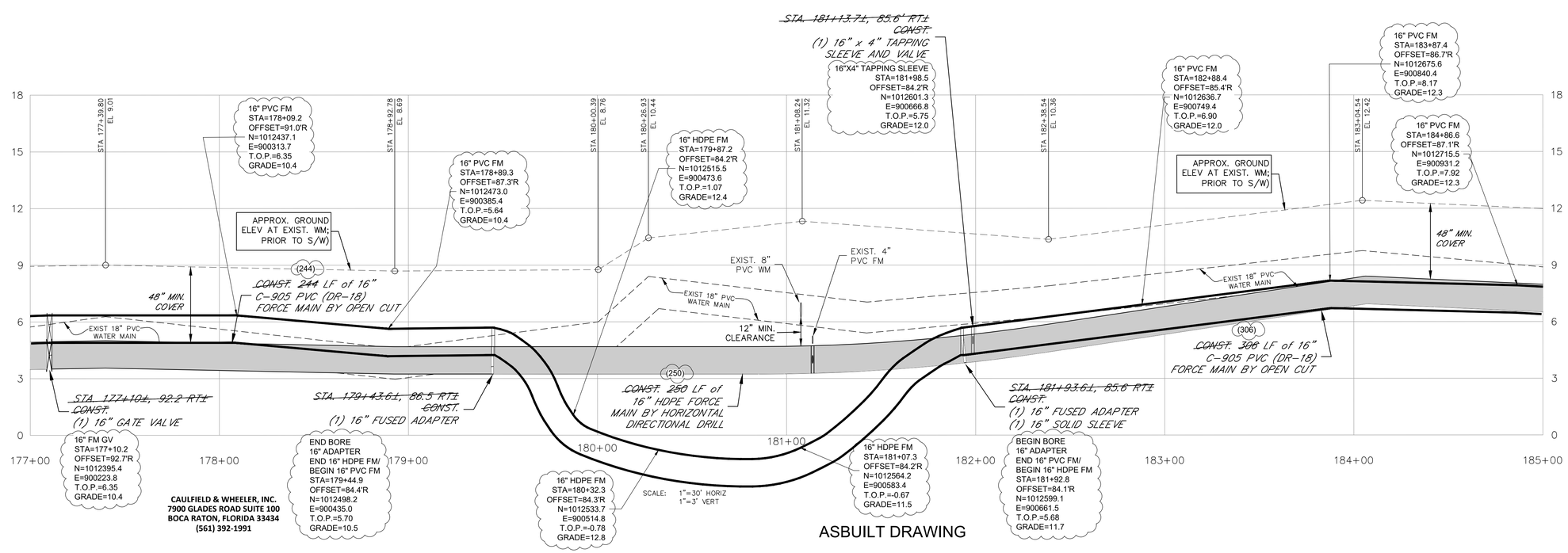
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   "US-COVE" Elevation: 18.05' (NAVD 88)
   "76-GA" Elevation: 8.49' (NAVD 88)

3. After new Force Main construction has been completed and pressure tested and FDEP / MCU approval to place into service has been obtained, Contractor shall make connection to existing 4" Force Main from Lift Station #721.



PLAN



ASBUILT DRAWING

PROFILE

CERTIFICATION
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DAVID P. LINDLEY, P.L.S. REG. LAND SURVEYOR, #5005 STATE OF FLORIDA, LB #3591

CAULFIELD & WHEELER, INC.
7900 GLADES ROAD SUITE 100
BOCA RATON, FLORIDA 33434
(561) 392-1991

ALL ELEVATIONS SHOWN IN NAVD88.
ALL HORIZONTAL VECTOR INFORMATION SHOWN IN NAD83 AND IN THE FLORIDA EAST ZONE STATE PLANE COORDINATE SYSTEM.

ASBUILT LEGEND
(0.00) - ASBUILT DATA
- NO ASBUILT DATA

C&W #9131

Cove Road
MARTIN COUNTY, FL
FORCE MAIN EXTENSION
PLAN & PROFILE

REVISIONS	DATE	BY
ADDED CONNECTION TO NEW 16" FORCE MAIN FROM LIFT STATION # 721	5-5-20	SJV

DATE: AUG 2018
SCALE: AS SHOWN
DESIGN: SJV
DRAWN: SJV
CHECKED: J.A.C.
DWG: CoveRd-FMExt-PP.dwg

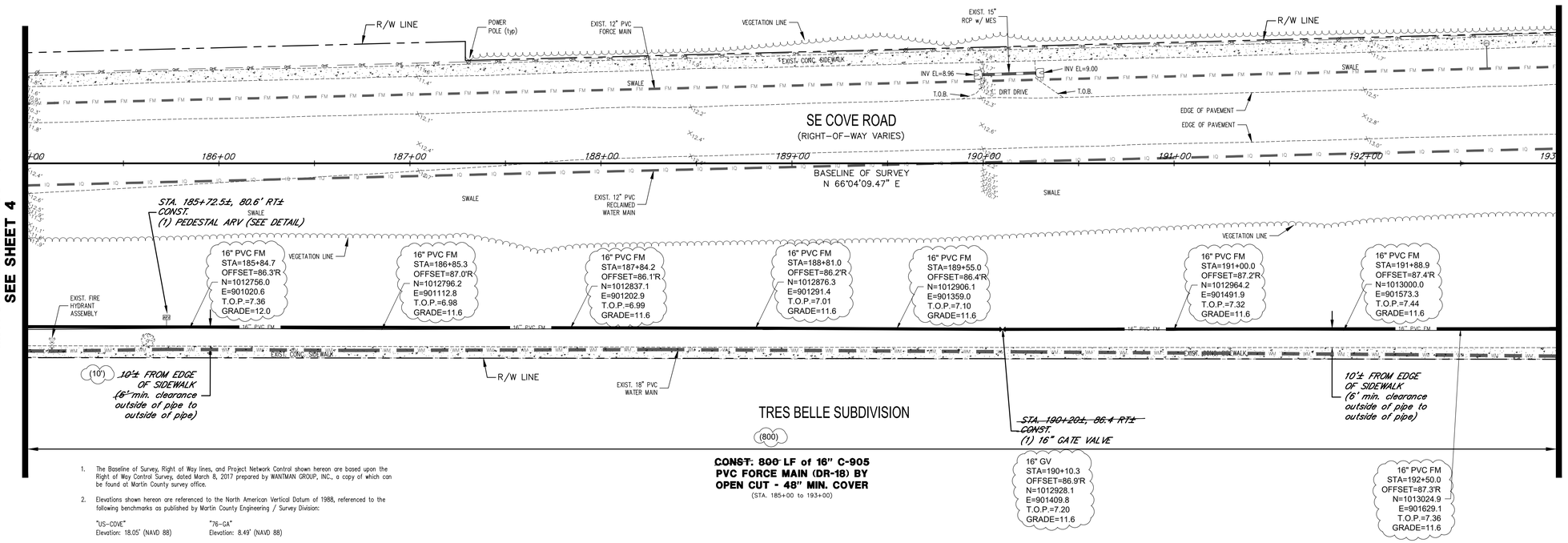
MARTIN COUNTY UTILITIES
2378 S.E. OCEAN BOULEVARD
STUART, FLORIDA 34995-9000
Phone: (772) 221-1442 Fax: (772) 221-1447

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JEREMY A. COVEY, P.E.
FLORIDA REGISTRATION
No. 75472

SHEET 4 OF 11

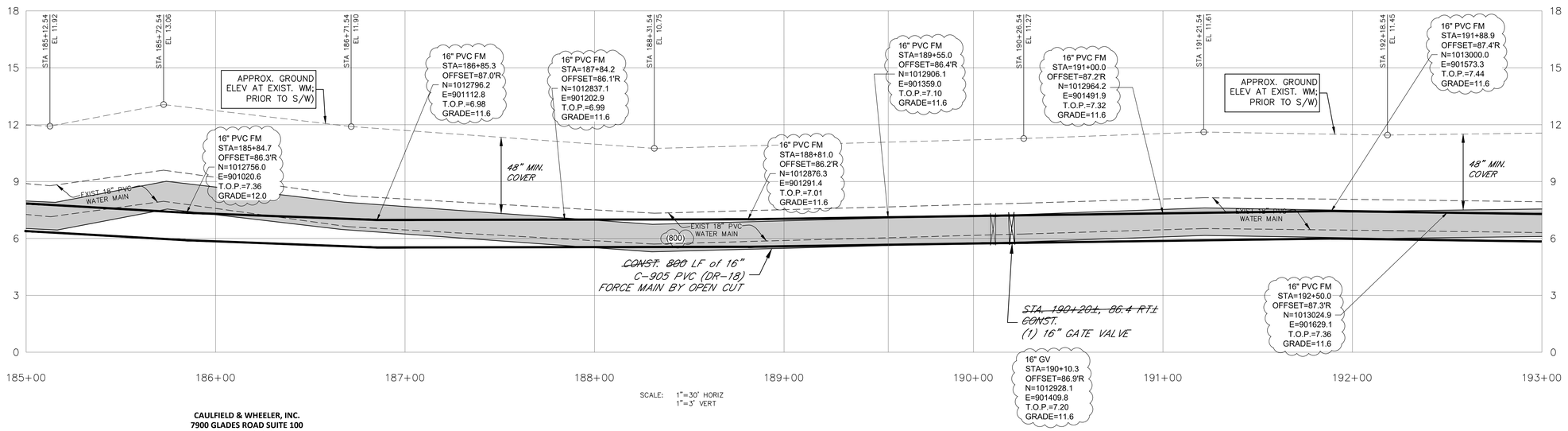
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"76-GA" Elevation: 8.49' (NAVD 88)

PLAN



SCALE: 1"=30' HORIZ
1"=3' VERT

ASBUILT DRAWING

PROFILE

CAULFIELD & WHEELER, INC.
7900 GLADES ROAD SUITE 100
BOCA RATON, FLORIDA 33434
(561) 392-1991

_____
DAVID P. LINDLEY, P.L.S. REG. LAND SURVEYOR, #5005 STATE OF FLORIDA, LB #3591

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ASBUILT LEGEND
(0.00) - ASBUILT DATA
- NO ASBUILT DATA

C&W #9131

Cove Road
MARTIN COUNTY, FL
FORCE MAIN EXTENSION
PLAN & PROFILE

REVISIONS	DATE	BY

DATE: AUG 2018
SCALE: AS SHOWN
DESIGN: SJV
DRAWN: SJV
CHECKED: J.A.C.
DWG: CoveRd-FMExt-PP.dwg

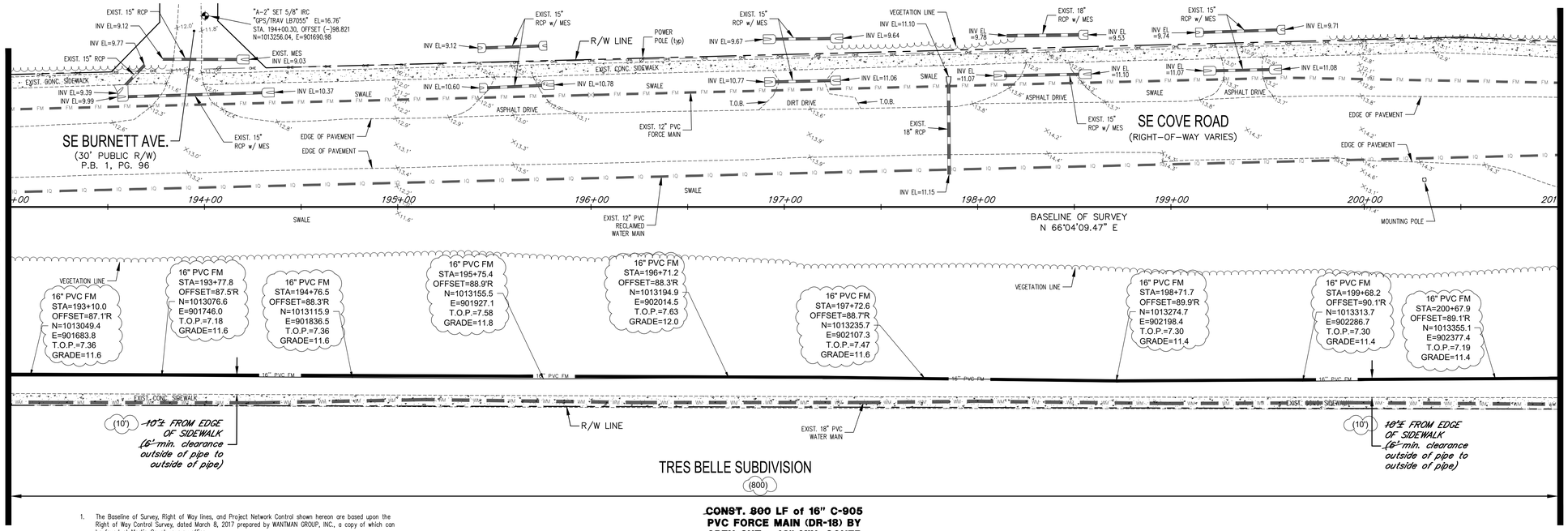
MARTIN COUNTY UTILITIES
2378 S.E. OCEAN BOULEVARD
STUART, FLORIDA 34995-9000
Phone: (772) 221-1442 Fax: (772) 221-1447

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JEREMY A. COVEY, P.E.
FLORIDA REGISTRATION
No. 75472

SHEET **5** OF **11**

Drawing name: P:\09131-00-00\drawings\Survey\ASBUILTS\09131 ASB FM COVE RD.dwg Sheet 5 Dec 21, 2022 10:37am by: Tommy



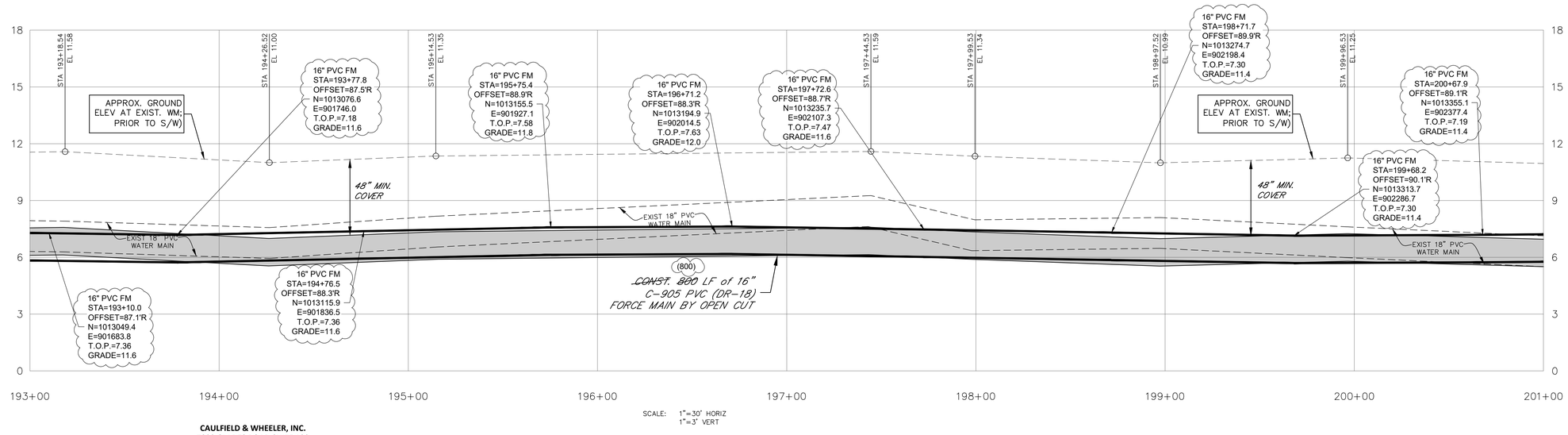
PLAN

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"76-GA" Elevation: 8.49' (NAVD 88)



SCALE: 1"=30' HORIZ
1"=3' VERT

ASBUILT DRAWING

PROFILE

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ASBUILT LEGEND
(0.00) - ASBUILT DATA
- NO ASBUILT DATA

CAULFIELD & WHEELER, INC.
7900 GLADES ROAD SUITE 100
BOCA RATON, FLORIDA 33434
(561) 392-1991

C&W #9131

Cove Road
MARTIN COUNTY, FL
FORCE MAIN EXTENSION
PLAN & PROFILE

REVISIONS	DATE	BY

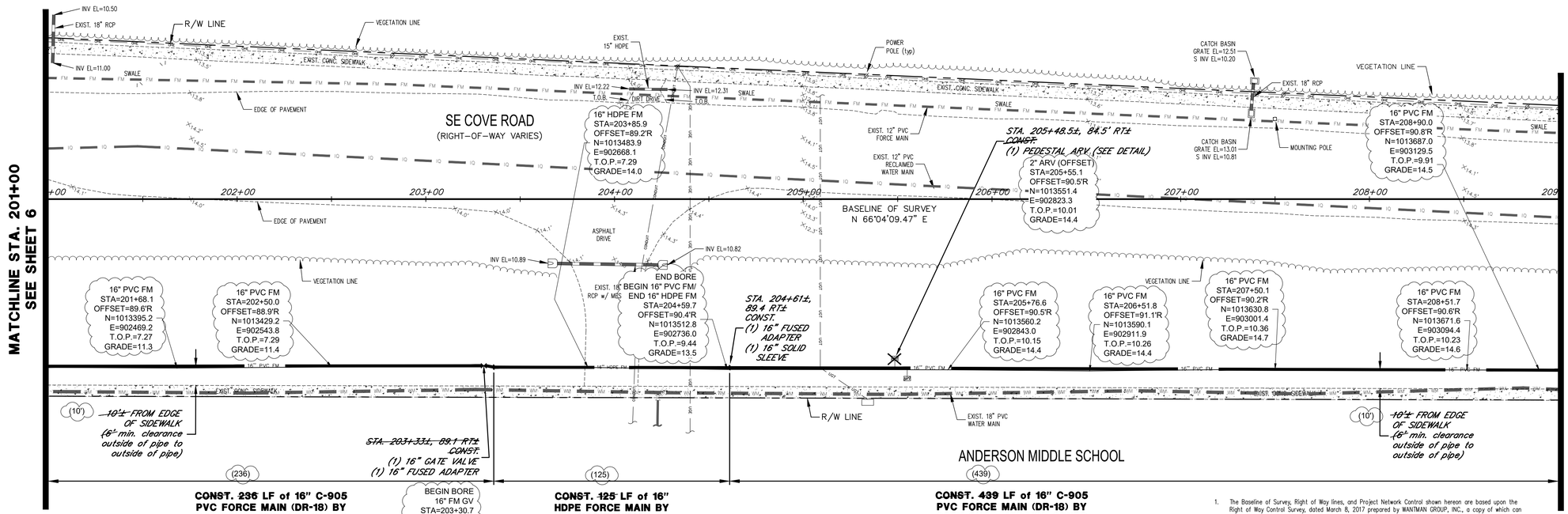
DATE: AUG 2018
SCALE: AS SHOWN
DESIGN: SJV
DRAWN: SJV
CHECKED: J.A.C.
DWG: CoveRd-FMExt-PP.dwg

MARTIN COUNTY UTILITIES
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STUART, FLORIDA 34995-9000
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JEREMY A. COVEY, P.E.
FLORIDA REGISTRATION
No. 75472

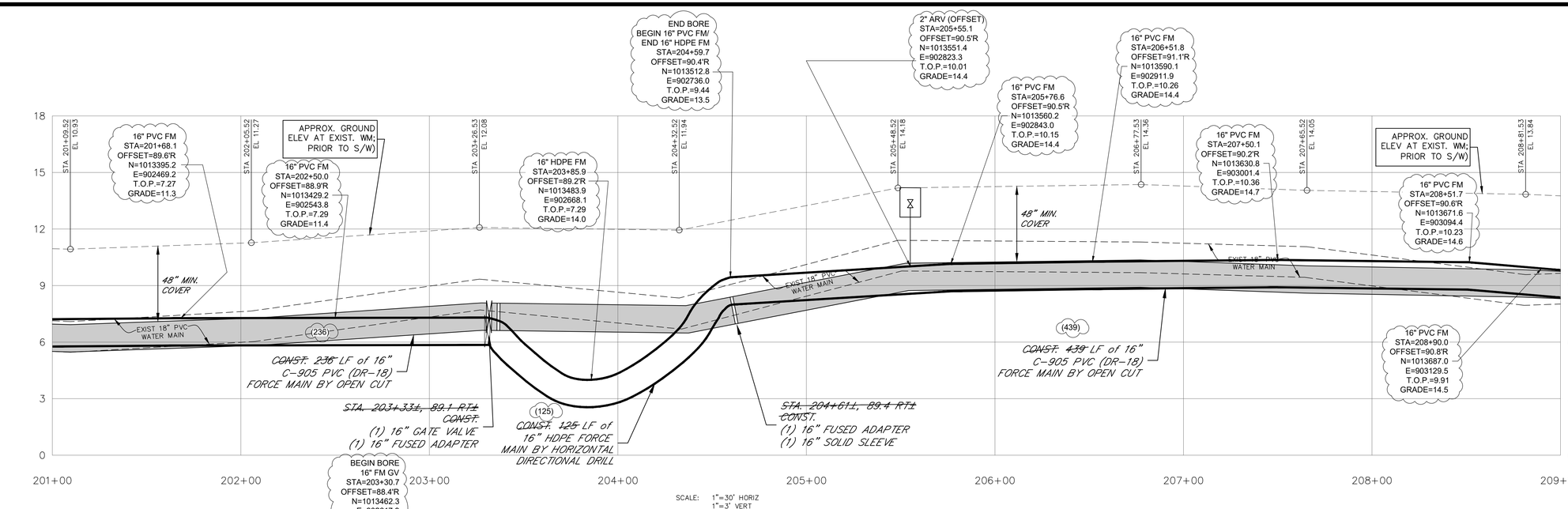
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PLAN

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SCALE: 1"=30' HORIZ
1"=3' VERT

ASBUILT DRAWING

PROFILE

ASBUILT LEGEND
(0.00) - ASBUILT DATA
- NO ASBUILT DATA

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DAVID P. LINDLEY, P.L.S. REG. LAND SURVEYOR, #5005 STATE OF FLORIDA, LB #3591

CAULFIELD & WHEELER, INC.
7900 GLADES ROAD SUITE 100
BOCA RATON, FLORIDA 33434
(561) 392-1991

C&W #9131

Cove Road
MARTIN COUNTY, FL
FORCE MAIN EXTENSION
PLAN & PROFILE

REVISIONS	DATE	BY

DATE: AUG 2018
SCALE: AS SHOWN
DESIGN: SJV
DRAWN: SJV
CHECKED: J.A.C.
DWG: CoveRd-FMExt-PP.dwg

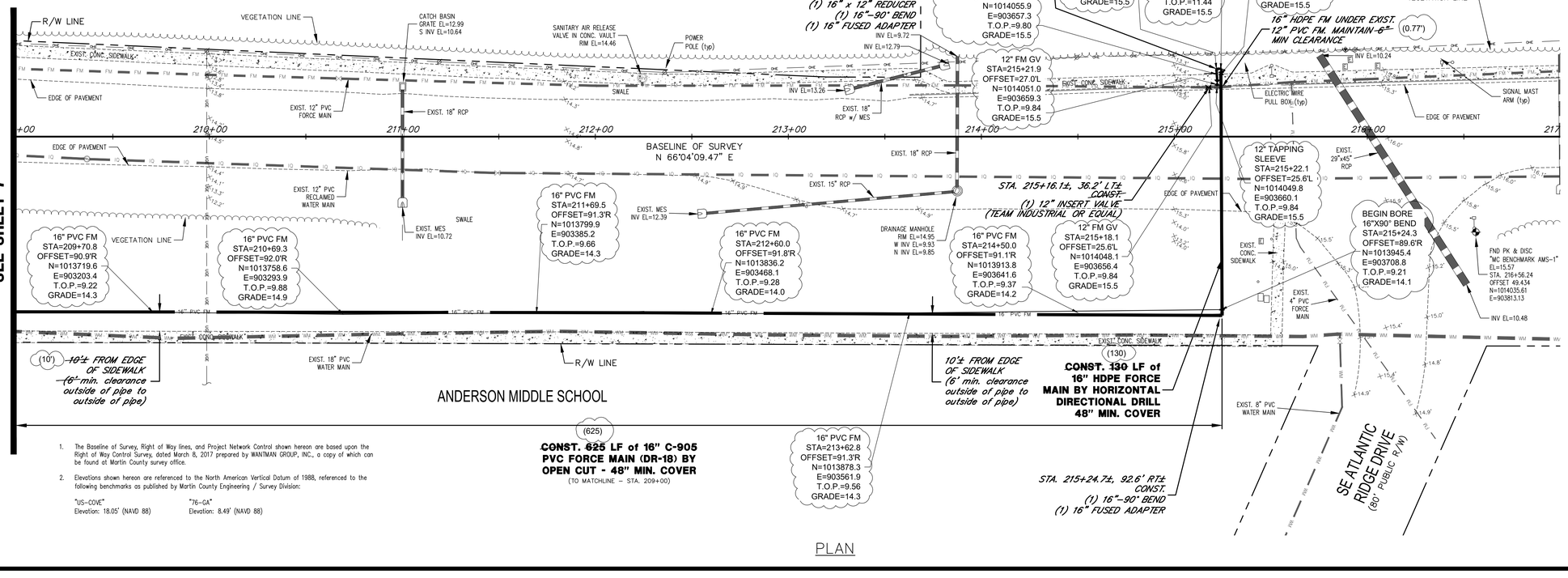
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JEREMY A. COVEY, P.E.
FLORIDA REGISTRATION
No. 75472

SHEET **7** OF **11**

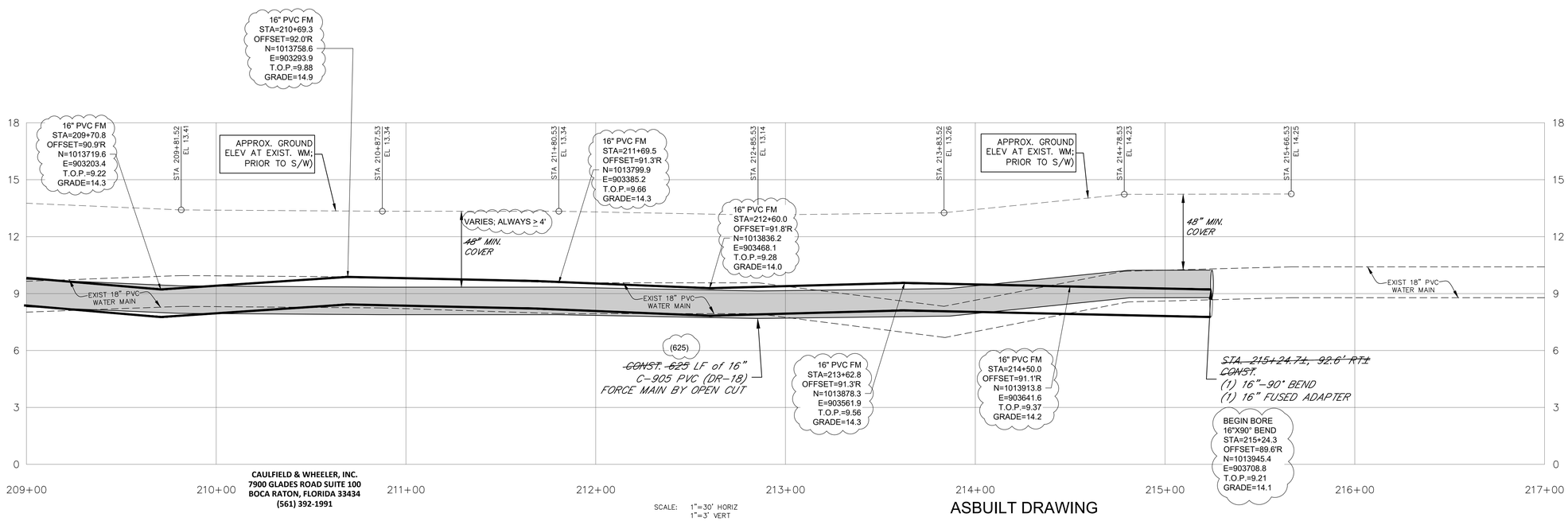
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PLAN

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SCALE: 1"=30' HORIZ
1"=3' VERT

ASBUILT DRAWING

CAULFIELD & WHEELER, INC.
7900 GLADES ROAD SUITE 100
BOCA RATON, FLORIDA 33434
(561) 392-1991

_____
DAVID P. LINDLEY, P.L.S. REG.
LAND SURVEYOR, #5005
STATE OF FLORIDA, LB #3591

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I HEREBY CERTIFY THAT THE ATTACHED FORCE MAIN ASBUILTS ON THE HEREON DELINEATED PROPERTY ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AS SURVEYED IN MARCH, 2021.

ALL ELEVATIONS SHOWN IN NAVD88.
ALL HORIZONTAL VECTOR INFORMATION SHOWN IN NAD83 AND IN THE FLORIDA EAST ZONE STATE PLANE COORDINATE SYSTEM.

PROFILE

ASBUILT LEGEND
(0.00) - ASBUILT DATA
- NO ASBUILT DATA

C&W #9131

Cove Road
MARTIN COUNTY, FL
FORCE MAIN EXTENSION
PLAN & PROFILE

REVISIONS	DATE	BY

DATE: AUG 2018
SCALE: AS SHOWN
DESIGN: SJV
DRAWN: SJV
CHECKED: J.A.C.
DWG: CoveRd-FMExt-PP.dwg

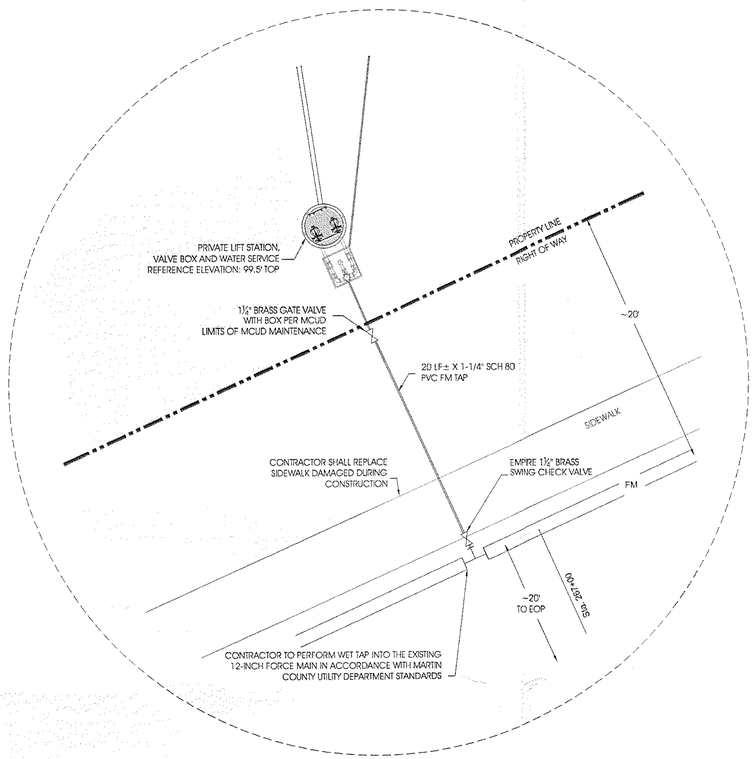
MARTIN COUNTY UTILITIES
2378 S.E. OCEAN BOULEVARD
STUART, FLORIDA 34995-9000
Phone: (772) 221-1442 Fax: (772) 221-1447

UNAUTHORIZED USE OF ELECTRONIC FILES WITHOUT THE CONSENT OF MARTIN COUNTY UTILITIES IS PROHIBITED. ELECTRONIC FILES ARE FOR REFERENCE PURPOSES ONLY; NOT FOR CONSTRUCTION. THESE DRAWINGS ARE NOT VALID WITHOUT BEING SIGNED, SEALED, AND DATE IMPRINTED BY THE ENGINEER OF RECORD.

JEREMY A. COVEY, P.E.
FLORIDA REGISTRATION
No. 75472

SHEET **8** OF **11**

Drawing name: P:\09131-00-00-00\drawings\Survey\ASBUILTS\09131 ASB FM COVE RD.dwg Sheet 8 Dec 21, 2022 10:38am by: Tommy



FORCE MAIN CONNECTION DETAIL
SCALE 1" = 5'

PRIVATE LIFT STATION NOTES:
THE PRIVATE WILSON LIFT STATION IS PROPOSED TO REPLACE AN EXISTING SEPTIC SYSTEM AND CONNECT INTO THE ADJACENT 12-INCH FORCE MAIN RUNNING PARALLEL TO AND NORTH OF COVE ROAD.

PROJECT NAME: WILSON RESIDENCE

PROJECT ADDRESS: 2205 COVE ROAD RESIDENTIAL THREE BEDROOM 300 GALLONS PER DAY

TIE-IN: EXISTING 12-INCH FORCE MAIN (COVE ROAD)

DESIGN HEAD: 39.2 PSI (92 FEET)

WET WELL:
FIBERGLASS - EFFECTIVE CAPACITY (VOLUME BETWEEN PUMP OFF AND ON SWITCHES): 40-50 GALLONS (8-12" FIELD ADJUSTED WITH MAXIMUM 12-MINUTE DETENTION TIME AND PROVISIONS FOR PUMP REMOVAL).

DESIGNED, FABRICATED, INSPECTED, TESTED AND MARKED IN ACCORDANCE WITH ASTM D-3753 SPECIFICATIONS.

BASIN SHALL BE LMF, 36-INCH FIBERGLASS OPEN TOP WITH 3" X ⅜" FLANGE AND HALLIDAY PRODUCTS SERIES C1R4D 16" X 28" ACCESS DOOR OR APPROVED EQUIVALENT. USE G-400 PIPE SEAL GROMMETS AND 2" SEP "GREEN" 2VC VENTS.

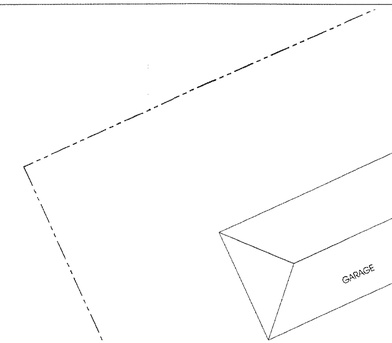
PUMP: BARNES MODEL NO. SCVF2022L

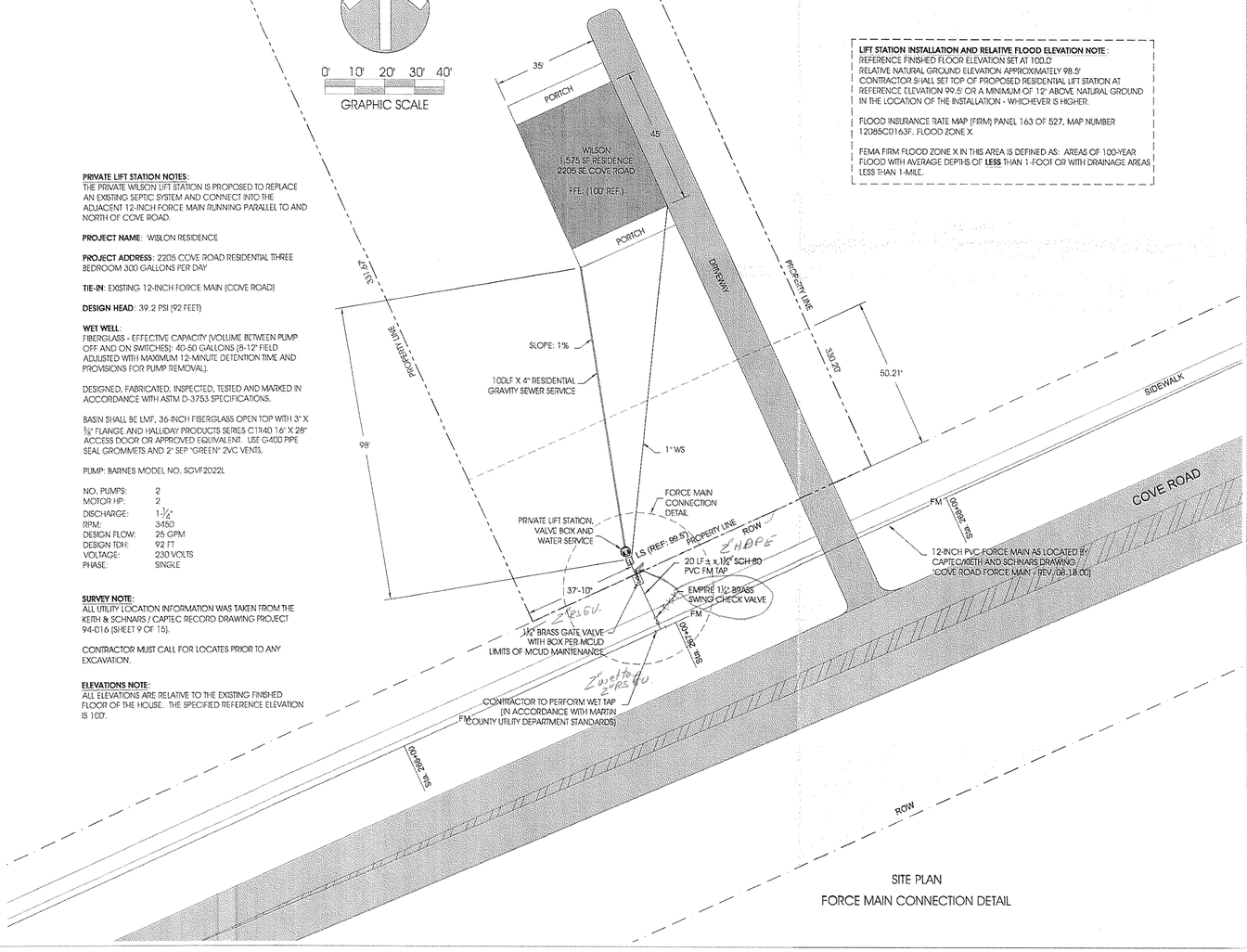
NO. PUMPS:	2
MOTOR HP:	2
DISCHARGE:	1-¼"
RPM:	3450
DESIGN FLOW:	25 GPM
DESIGN TDH:	92 FT
VOLTAGE:	230 VOLTS
PHASE:	SINGLE

SURVEY NOTE:
ALL UTILITY LOCATION INFORMATION WAS TAKEN FROM THE KEITH & SCHNARS / CAPTEC RECORD DRAWING PROJECT 94-016 (SHEET 9 OF 15).

CONTRACTOR MUST CALL FOR LOCATES PRIOR TO ANY EXCAVATION.

ELEVATIONS NOTE:
ALL ELEVATIONS ARE RELATIVE TO THE EXISTING FINISHED FLOOR OF THE HOUSE. THE SPECIFIED REFERENCE ELEVATION IS 100'.



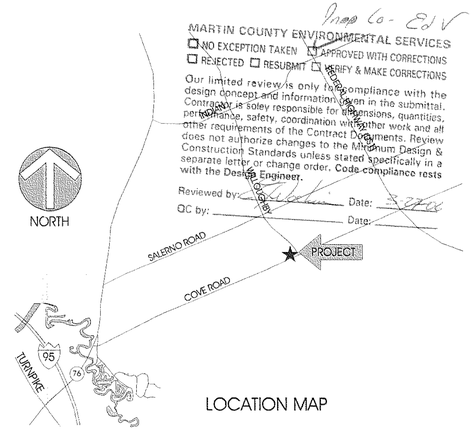


SITE PLAN
FORCE MAIN CONNECTION DETAIL

MARTIN COUNTY ENVIRONMENTAL SERVICES
☐ NO EXCEPTION TAKEN ☒ APPROVED WITH CORRECTIONS
☐ REJECTED ☐ RESUBMIT ☐ VERIFY & MAKE CORRECTIONS

Our limited review is only for compliance with the design concept and information shown in the submittal. Contractor is solely responsible for dimensions, quantities, performance, safety, coordination with other work and all other requirements of the Contract Documents. Review does not authorize changes to the Minimum Design & Construction Standards unless stated specifically in a separate letter or change order. Code compliance rests with the Design Engineer.

Reviewed by: Date:
QC by: Date:



LOCATION MAP

LIFT STATION INSTALLATION AND RELATIVE FLOOD ELEVATION NOTE:
REFERENCE FINISHED FLOOR ELEVATION SET AT 100.0
RELATIVE NATURAL GROUND ELEVATION APPROXIMATELY 98.5'
CONTRACTOR SHALL SET TOP OF PROPOSED RESIDENTIAL LIFT STATION AT REFERENCE ELEVATION 99.5' OR A MINIMUM OF 12" ABOVE NATURAL GROUND IN THE LOCATION OF THE INSTALLATION - WHICHEVER IS HIGHER.

FLOOD INSURANCE RATE MAP (FIRM) PANEL 163 OF 527, MAP NUMBER 12085C0163F. FLOOD ZONE X.

FEMA FIRM FLOOD ZONE X IN THIS AREA IS DEFINED AS: AREAS OF 100-YEAR FLOOD WITH AVERAGE DEPTHS OF **LESS** THAN 1-FOOT OR WITH DRAINAGE AREAS LESS THAN 1-MILE.

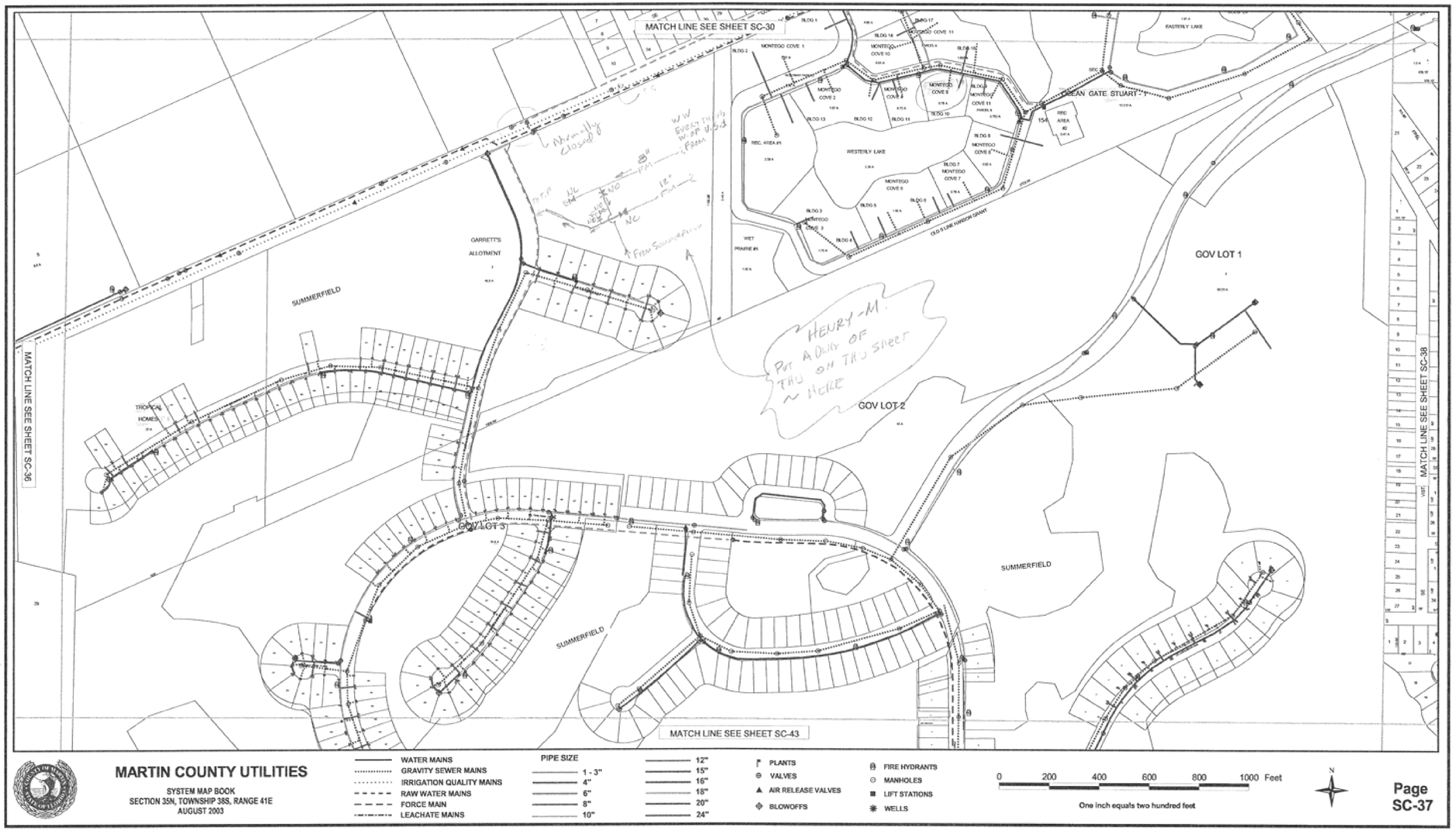
Francis Wilson
2205 SE Cove Road, Stuart FL 34997

PRIVATE LIFT STATION

Atlantic Coastal Engineering Inc.
PO Box 3016, Stuart, Florida 34995 PH (772) 288-4254 FX (772) 286-9802
EMAIL: [illegible]

C1

SWW-FRANCIS-WILSON-PRIV-LS-08-C1



MARTIN COUNTY UTILITIES

SYSTEM MAP BOOK
SECTION 35N, TOWNSHIP 38S, RANGE 41E
AUGUST 2003

WATER MAINS
GRAVITY SEWER MAINS
IRRIGATION QUALITY MAINS
RAW WATER MAINS
FORCE MAIN
LEACHATE MAINS

PIPE SIZE
1 - 3"
4"
6"
8"
10"
12"
15"
16"
18"
20"
24"

PLANTS
VALVES
AIR RELEASE VALVES
BLOWOFFS
FIRE HYDRANTS
MANHOLES
LIFT STATIONS
WELLS

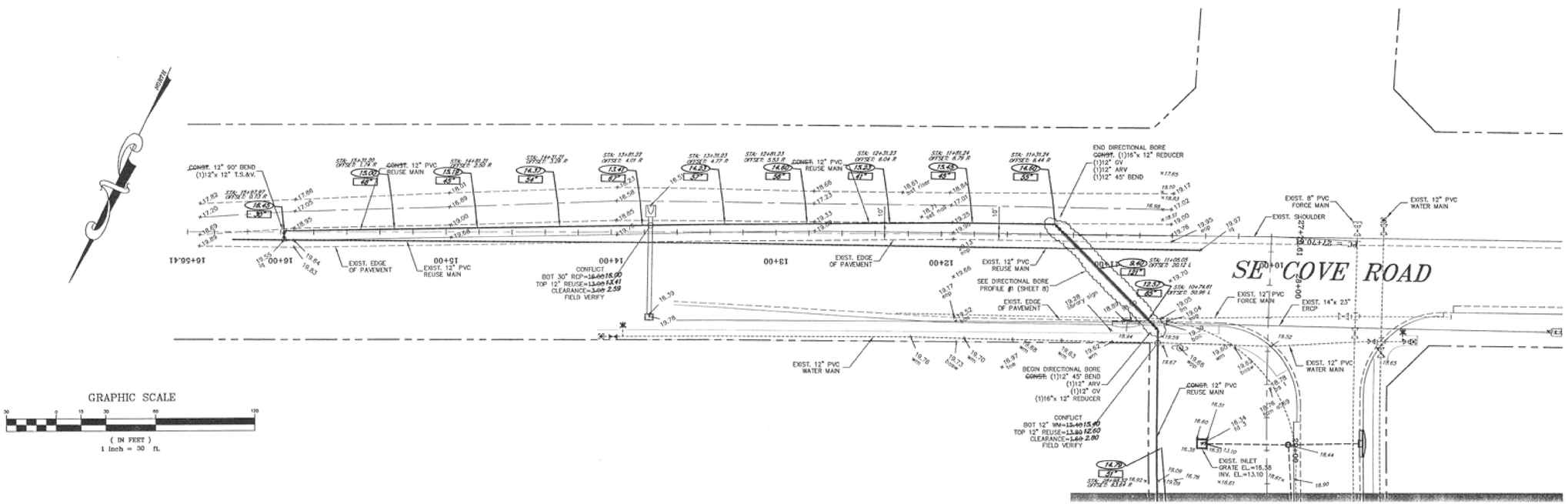
0 200 400 600 800 1000 Feet
One inch equals two hundred feet

N

Page SC-37

SWW-INHOUSE-EDITS-SC-37.TIF

BEGIN PROJECT

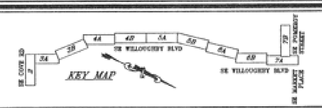


MATCHLINE SHEET 3

LEGEND
(XX.XX) = TOP ELEVATION
XX.XX = COVER
= PROPOSED WATER
= AS-BUILT WATER
= AS-BUILT
TEXT = AS-BUILT

RECORD DRAWINGS 10/4/2005

STEFAN K. MATTHES, P.E. FL. REG. NO. 38723



COMPUTER FILE REF.	FIELD BK./PG.
0140-REUSE.dwg	

CULPEPPER & TERPENING, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
2980 SOUTH 25th STREET
FORT PIERCE, FLORIDA 34981
(772) 464-3537
STATE OF FLORIDA BOARD OF PROFESSIONAL ENGINEERS AUTHORIZATION NO. 4266

– REVISIONS –	BY	DATE
REVISED PER MARTIN COUNTY	CSM	01/04/05
REVISED PER MARTIN COUNTY	JB	10/4/05
.	-	-
.	-	-
.	-	-
.	-	-

	BY	DATE
DESIGNED	EZ	01/03/05
CALCS.		
DRAWN	JB	10/4/05
DETAILED		
CHECKED	EZ	01/04/05
APPROVED		

MARTIN'S CROSSING
OFFSITE REUSE MAIN

PLAN VIEW

DATE: 10/4/05
HORIZ. SCALE: 1"=30'
VERT. SCALE: N/A
JOB No. 01-40
SHEET 2 OF 11

SWW-MARTINS-CROSSING-IQ-OFFSITE-05-002.TIF

SE Willoughby Blvd

R/W

GRAPHIC SCALE

1" = 50'

20'X50' WORK ZONE (TYP)

3'x3'x3' DRILL PIT

4" PLASTIC GAS PIPELINE VIA HORIZONTAL DIRECTIONAL

4" ef. 90°

8'

Side Walk

4" PE Gas M.L.M.

20'X50' WORK ZONE(TYP)

3'x3'x3' DRILL PIT

SE COVE RD

30
25
20
15
10
5
0
-5

3'X3'X3' DRILL PIT

12"WM

12"SD

EXISTING GRADE

3'X3'X3' DRILL PIT

36" MIN.

INSTALL PROPOSED 4" PLASTIC GAS PIPELINE VIA HORIZONTAL DIRECTIONAL DRILL WITH MINIMUM 36" COVER, MAXIMUM 8" REAMER.

PROFILE

HORIZONTAL SCALE – 1"=50'
VERTICAL SCALE – 1"=10'

SE STEPNO RD
SE COMMUNITY DR
SW WILLOUGHBY BLVD
SE COVE RD
4
5
6
7
8
9

INDEX MAP

MAI

2810 SE 1 SOUTH, SUITE B
ST. AUGUSTINE, FL. 32095

PHONE: (904)824-1780
FAX: (904)824-1781

QUALIFICATION NO. EB 11

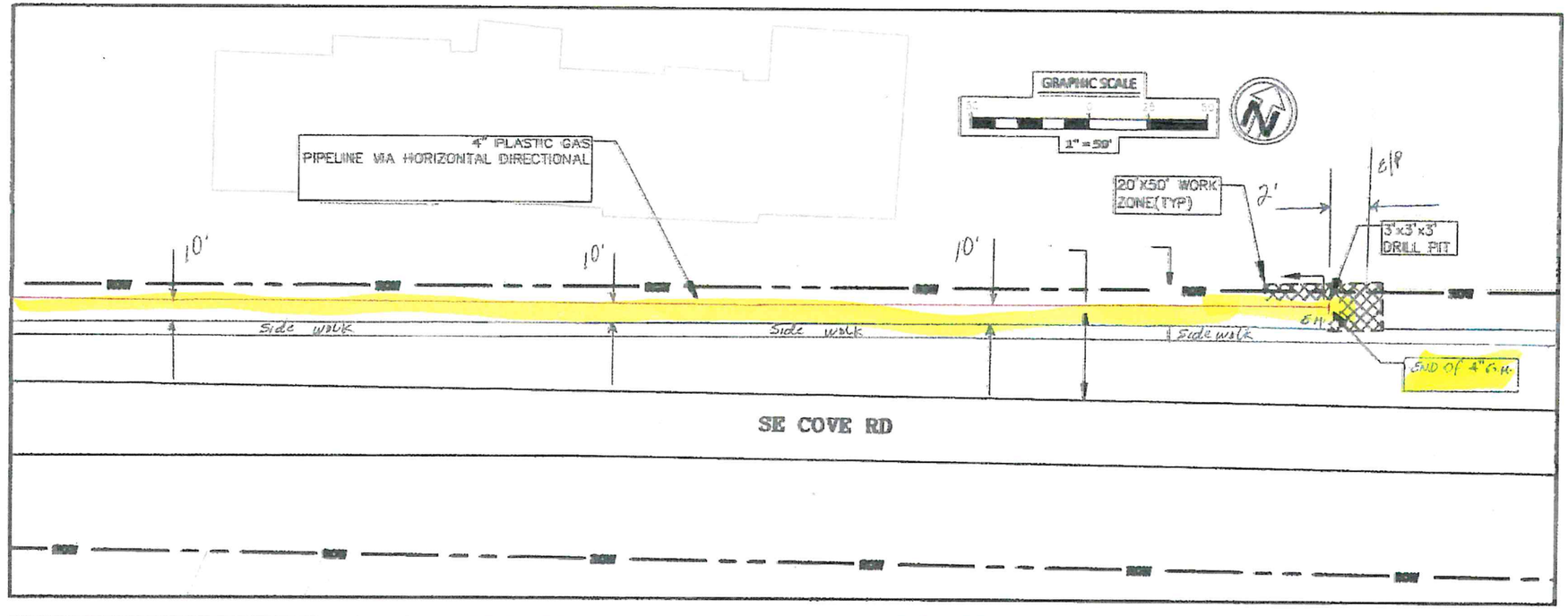
LICENSED ENGINEER
CRAIG H. MAI
FL #48008 CA#28163

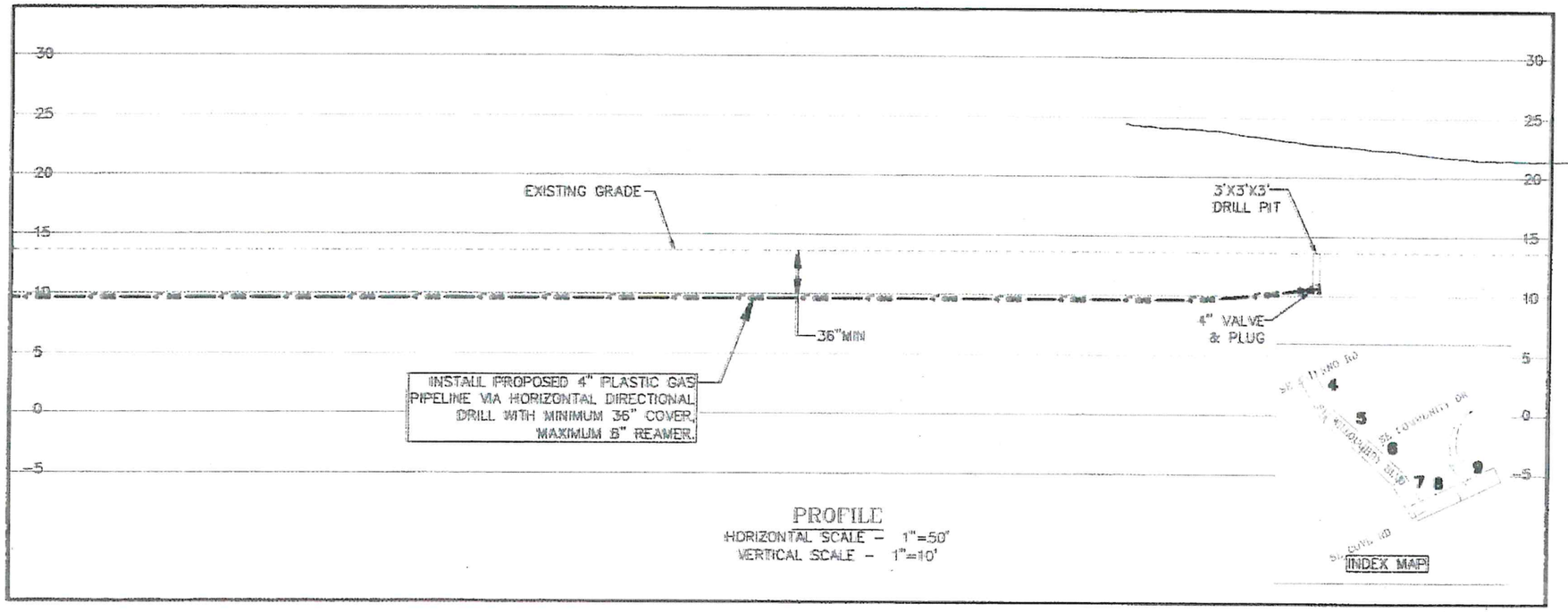
PLAN AND PROFILE

GAS PIPELINE EXTENSION IN MARTIN COUNTY
CITY OF PORT SALERNO, FLORIDA

PREPARED FOR:
TECO – PEOPLES GAS SYSTEM, INC.

DRAWN BY:	CHM
CHECKED BY:	CHM
APPR. BY:	CHM
DATE:	10/8/2018
JOB No.:	668
SHEET No.:	5

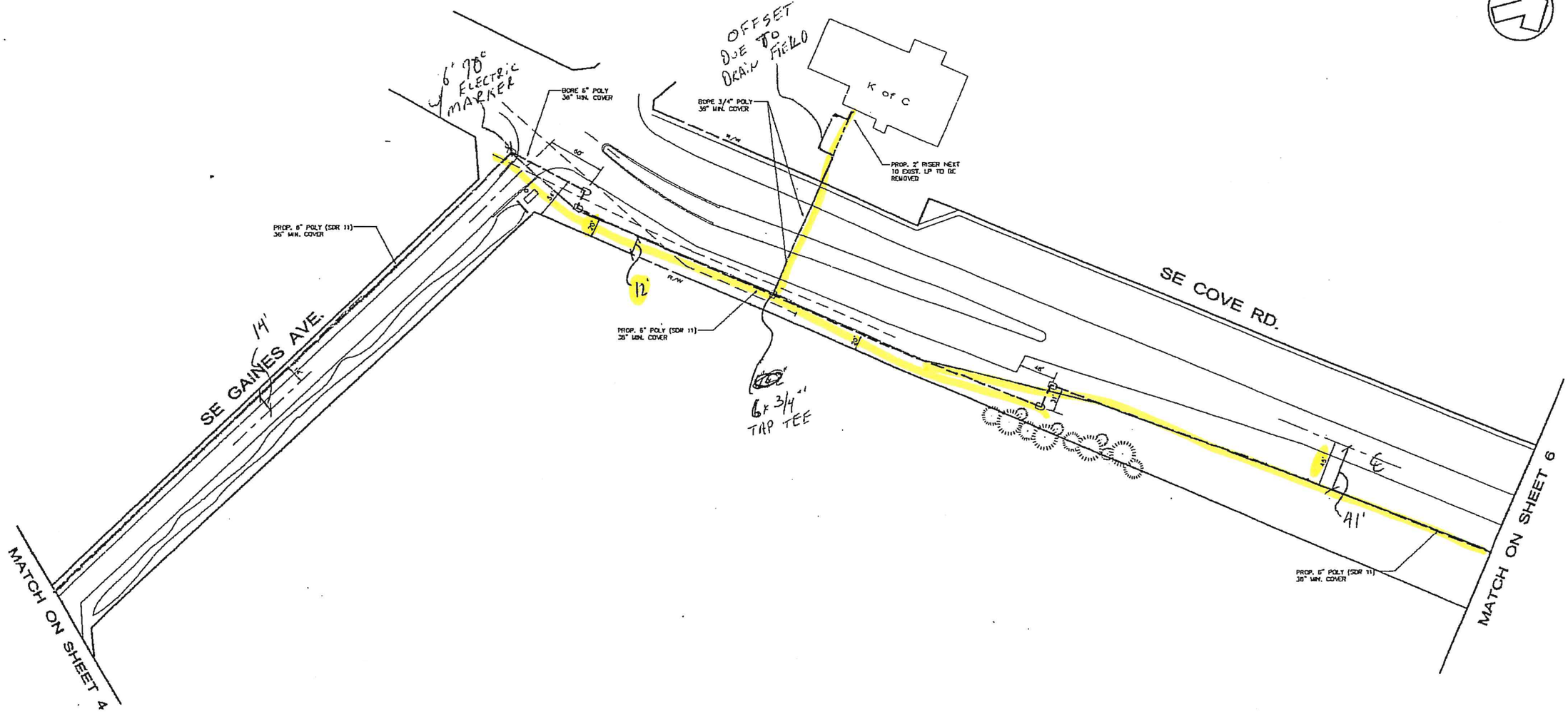


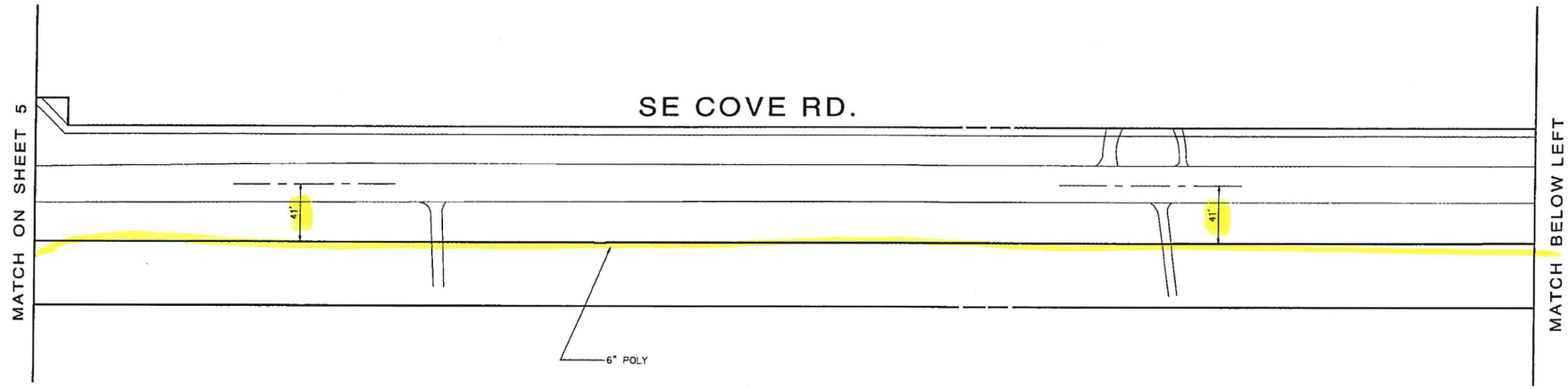


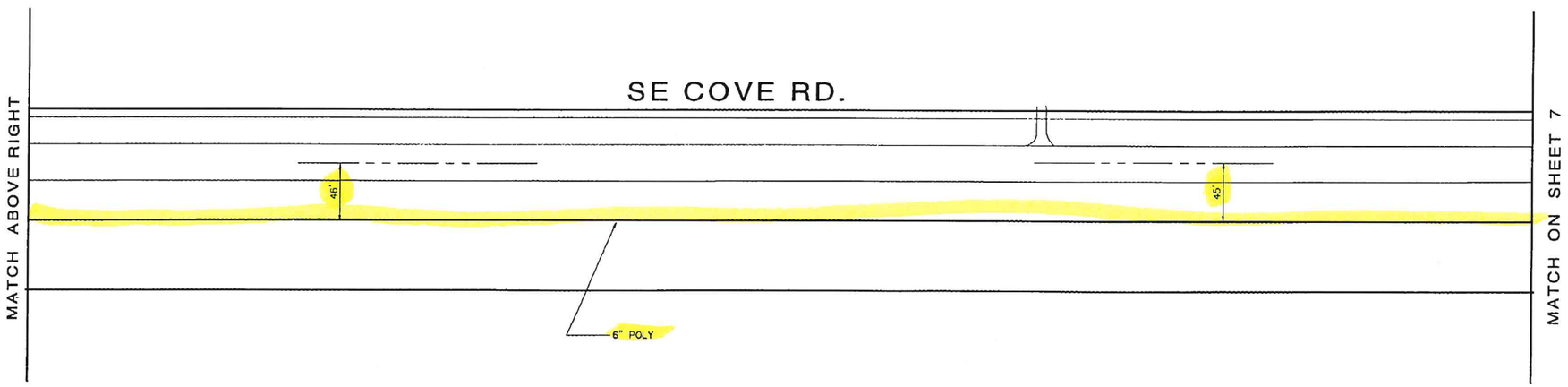
PROFILE
HORIZONTAL SCALE – 1"=50'
VERTICAL SCALE – 1"=10'

MAI ENGINEERING, INC.
GAS PIPELINE EXTENSION IN MARTIN COUNTY
CITY OF PORT SALERNO, FLORIDA
PREPARED FOR
TECO – PEOPLES GAS SYSTEM, INC.
PLAN AND PROFILE
DRAWN: GMV
CHECKED: GMC
APPROVED: GMM
DATE: 10/4/2018
JOB NO.: 0
SHEET NO.: 2

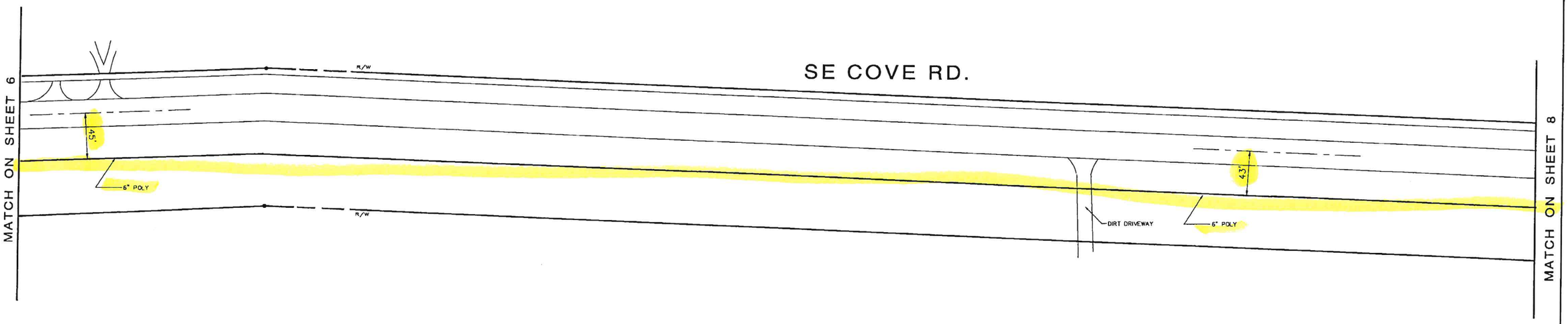
TECO Peoples Gas


OFFSET DUE TO DRAIN FIELD
6" 90° ELECTRIC MARKER
BORE 6" POLY 36" MIN. COVER
BORE 3/4" POLY 36" MIN. COVER
K of C
PROP. 2" RISER NEXT TO EXIST. LP TO BE REMOVED
PROP. 6" POLY (SDR 11) 36" MIN. COVER
SE COVE RD.
SE GAINES AVE.
14'
12'
41'
6x3/4" TAP TEE
PROP. 6" POLY (SDR 11) 36" MIN. COVER
PROP. 6" POLY (SDR 11) 36" MIN. COVER
MATCH ON SHEET 4
MATCH ON SHEET 6
TECO
PEOPLES GAS

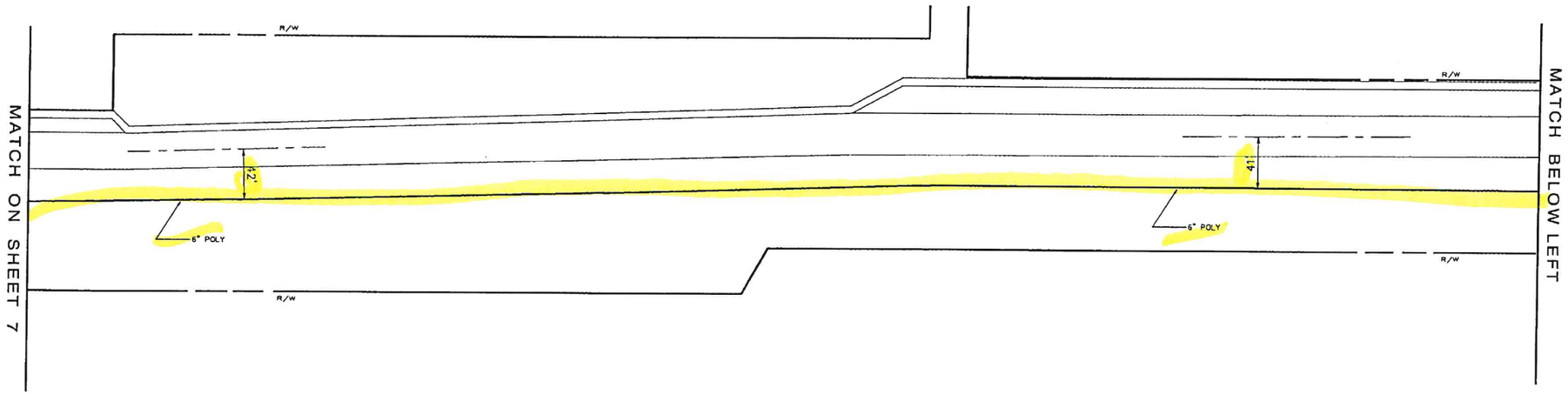


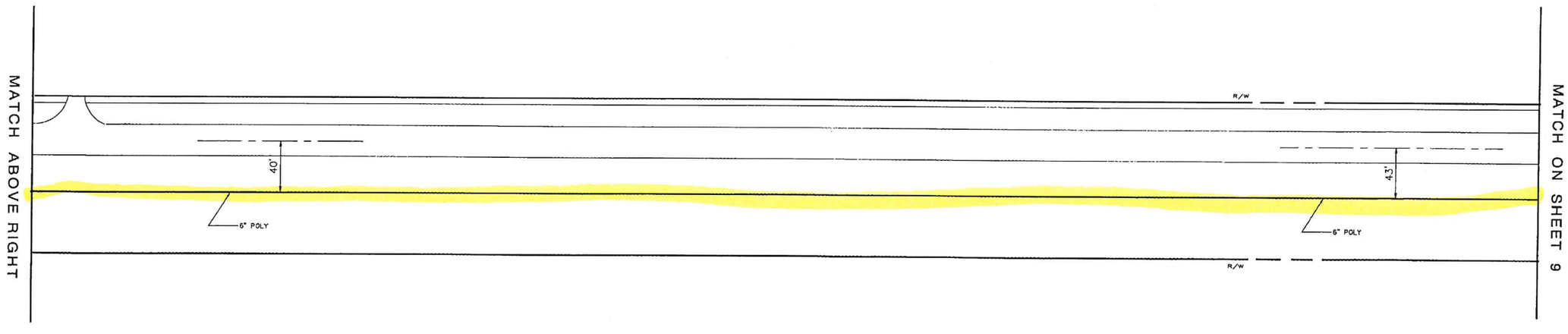


TECO
PEOPLES GAS

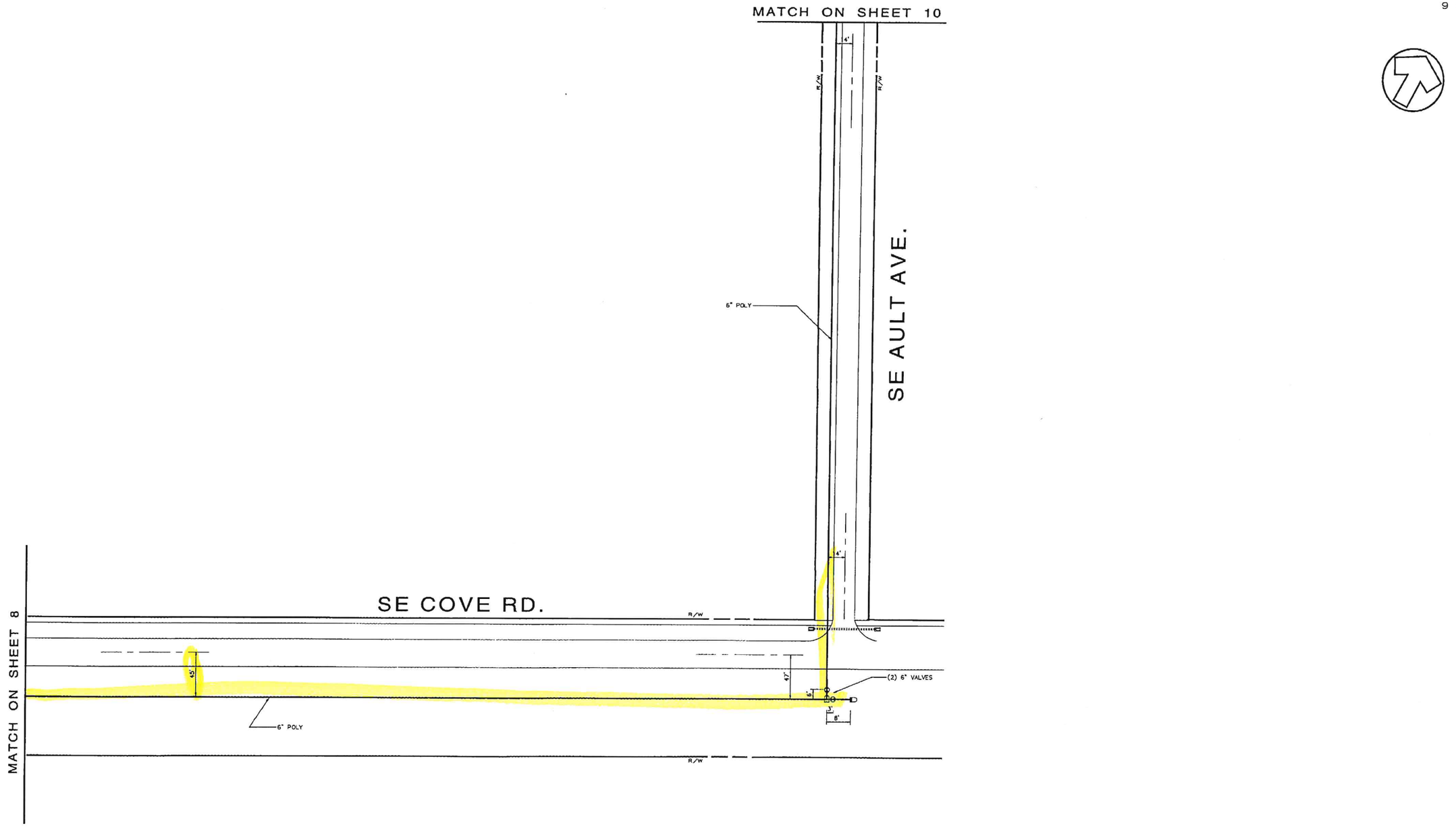


TECO
PEOPLES GAS





TECO
PEOPLES GAS



TECO
PEOPLES GAS

Appendix B – Utility Coordination Letters

March 25, 2024

ADJUSTMENT OF UTILITIES - FLORIDA STATUTES CHAPTER 337.403

Financial Project Number:	441700-1-22-02
County:	Martin
State Road:	SE Cove Road
Document:	01
Federal Aid Project Number:	N/A
Project Limits:	From SR 76 to SR 5
Project Job Description:	PD&E Study

The PD&E is underway to evaluate widening of SE Cove Road from SR 76/Kanner Hwy to SR 5/US 1 in Martin County and document information necessary for the Department to reach a decision on the feasibility, location, and conceptual design that will improve mobility and accessibility.

Base Plans dated 3/25/2024 are provided as part of the PD&E Request Package.

Using the standard color code *[Per 2017 UAM, Section 5.2 (4)]* **please mark one set of the plans**, which shall include verification and plotting the exact location of your existing and planned utility facilities. Additionally, power companies must indicate the voltage of all aboveground electric lines.

We also request you forward any information on easements, subordination information, as-built plans, and any possible need for UWHC and/or Reimbursement related to your facilities within the project limits.

To ensure we meet our project milestones we request you provide your response no later than **April 30, 2024**.

If you have any questions or need any additional information, please do not hesitate to contact us.

Sincerely,

William Garth Thompson

Garth Thompson
Sr. Utility Coordinator
MG Vera & Associates, Inc.

RIGHT OF WAY AGREEMENT

KNOW ALL MEN BY THESE PRESENTS, that we, R.P. Scott & Emily E. Scott of the County of Martin and State of Florida in consideration of the sum of one & no/100 Dollars the receipt of which is hereby acknowledged, grant to said Florida Power & Light Co. and to its successors and assigns, the right, privilege and easement forever, to construct, operate and maintain a line of poles for the transmission of electricity, including all telephone, telegraph and other wires, towers, poles, attachments, equipment and accessories desirable in connection therewith, over, upon, and across the following described tract of land Martin County, Florida, to-wit:

Commencing SW Cor (C) in Sec 26 Twp 38 S Range 41 East

which tract contains acres, more or less; the course heretofore located and marked out for such construction, operation and maintenance being described as follows:

together with the right to patrol, inspect, alter, improve, repair, and relocate along the route above described, and to remove such lines, wires, towers, poles, attachments, equipment and accessories, including the right to increase or decrease the number of wires, together with all the rights and privileges necessary or convenient for the full enjoyment or use thereof, for the purposes above described, including the right to cut and keep clear all trees and undergrowth along said line, and all trees and other obstructions adjacent thereto that may, in any way, endanger the proper operation of the same, including also the right to enter over adjoining lands of the grantors for the purpose of exercising the rights and privileges herein granted.

IN WITNESS WHEREOF, the grantors have hereunto affixed their hands and seals this day of , A. D. 19 .

Witnesses:

Emily E. Scott (SEAL)

R.P. Scott (SEAL)

STATE OF FLORIDA }
COUNTY OF } SS.

I, , a Notary Public within and for said County and State, do hereby certify that personally appeared before me this day and acknowleged the execution of the foregoing instrument.

Witness my hand and official seal this day of A. D. 19 .

(SEAL)
Notary Public, State of Florida at Large.

My commission expires:

c01100170

FLORIDA POWER & LIGHT COMPANY
RIGHT OF WAY RECORD.

FILE NO. 202

LINE 11

FROM POLE 40-D-10 plus 210'

TO POLE 41-D-2 plus 10'

COUNTY Martin

10/12/28
F. H. B.

FEE TITLE Emily E. Scott

1st Mortgagee John E. Taylor

2nd Mortgagee

3rd Mortgagee

Miscellaneous

I. DESCRIPTION.

1. PROPERTY: Lot One (1), Section 26, and Lot Five (5), Section 35, all in Township 38 South, Range 41 East, Martin County, Florida.

2. LINE: Line runs as follows: Beginning at a point 20 feet South of the center line of the graded road which runs Easterly and Westerly along Southern edge of the so-called Hanson Grant, said point being located 2200 feet, more or less, Westerly along said road from the Northeast corner of above described property, thence line runs Easterly parallel to and 20 feet South of center line of said road a distance of 1323 feet, more or less, thence South 34 degrees 31½ minutes East 1100 feet, more or less, to the South line of Government Lot Five (5), Section 35, Township 38 South, Range 41 East.

3. LINE STATUS: Easement covers only Lot One (1), Section 26, and that not complete.

4. PHYSICAL CONDITION:

II. INSTRUMENTS.

RIGHT OF WAY: A. County) Franchise ( ) E. Condemnation ( )
City) F. Mort.Releases( )
B. Long Form Easement (x) G. Damage Agrmts( )
C. Short Form Easement ( ) H. Miscellaneous( )
D. Permit ( )

Defects: Covers only part of property - Not witnessed - Not acknowledged - Not recorded - Do not advise using.

III. PROPERTY TITLE.

1. EXTENT OF EXAMINATION: Title in Emily E. Scott, a married man.

FREE & CLEAR: Subject to 1st mortgage.

IV. REMARKS

The following Instruments are Necessary: (1) Easement from Emily E. Scott and P. O. Scott, her husband. (2) Mortgage Release from John E. Taylor.

c01100170

From: Steve Vandersluis <svanders@martin.fl.us>
Sent: Monday, May 6, 2024 11:06 AM
To: Garth Thompson
Subject: 441700-1-22-02 SE Cove Road Martin County - Utility Contact
Attachments: SWW-COVE-ROAD-FORCE-MAIN-EXT-(001-007)-May-2022.pdf; X-CoveRdFM-Base - Standard.zip; X-CRFMExt-Base - Standard.zip

Garth,

Pursuant to your email request, regarding locations of our facilities in proximity to the referenced study, attached are cad files (Autodesk Civil 3D 2019) of the Cove Road Corridor from Kanner Highway (SR76) to US1 (SR5) and as-builts of a force main recently installed (west). MCU has multiple facilities in the corridor. Please note that there are numerous as-builts of all the facilities in the corridor and they will all be furnished if required for the study. The cad files are base files for work that is complete (west) and/or proposed (east). Please also note that these are approximate locations of our facilities only and cannot be construed as being entirely accurate. The attached files should not be used in lieu of actual locations that have been verified by field surveys. Our facilities are indicated "as-is". Prior to any excavation; field verifications or physical locates must be requested by calling Sunshine One Call at 811. Please forward any future correspondence to myself.

Thank you,
Steve Vandersluis
Martin County Utilities and Solid Waste Department
Technical Services Division
3473 SE Willoughby Boulevard
Suite 102
Stuart, FL 34994

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From: Steve Vandersluis <svanders@martin.fl.us>
Sent: Friday, November 15, 2024 4:10 PM
To: Sonny Lapoint
Cc: Garth Thompson
Subject: You've been shared Cove Road As-builts

Sonny,

Please find the requested files (as-built records) at the following link:

https://app.sharebase.com/#/folder/76489/share/637-A7QlyzmWTELybnHQGBK1NlYDAXk

Please note that everything along the Cove Road Corridor is included. As such, entire development plans along the corridor that connected to mains lying within the corridor are included. The applicable sheets will need to be observed for connection information. If you have further questions or require additional information, let me know.

Steve Vandersluis
Martin County Utilities and Solid Waste Department
Technical Services Division
3473 SE Willoughby Boulevard
Suite 102
Stuart, FL 34994

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