



Design-Build Services for

FRANJO ROAD

ROADWAY AND COMPLETE
INFRASTRUCTURE IMPROVEMENTS



RFP NO.: 1617-11-003



About Us



Acosta



Experience

- Founded in 1973
- Family owned and operated
- 40 + years of Underground Utility Installations & Complete Roadway Construction

Qualifications

- All Licenses and Certifications for MDC & Broward County
- FDOT Certified
- \$85,000,000 Bonding Capacity

Performance

- Emphasis on Safety & Quality
- Highly recommended by project owners
- Industry Recognition



2016 Florida Chapter of the APWA Contractor of The Year Award

2015 Florida Chapter of the APWA Contractor of The Year Award

2014 Florida Chapter of the APWA Contractor of The Year Award

About Us



Stantec



- Founded in 1954
- Publicly traded on two stock exchanges (NYSE, TXS: STN)
- More than 400 locations
- Over 22,000 employees
- Diverse range of services and sectors

18 Top 500 Design Firms, ENR

8 Top 100 Pure Designers, ENR

11 Top 20 Design Firms - Transportation, ENR

14 Top 20 Design Firms - Sewer and Waste, ENR

10 Top 20 Design Firms - Water, ENR

10 Top 20 Design Firms - General Buildings, ENR



**We bring smart, creative,
inspired people together.**

About Us



Acosta-Stantec as a Team

- Worked together on construction projects dating back to 2000
- Successfully completed multiple large Award Winning "Complete Streets" – Old Cutler Road and Caribbean Boulevard
- Working with and proudly serving the Village since 2007
- Dedicated, experienced, and knowledgeable project management team
- Unmatched depth of experience and local knowledge
- 90%+ Local Public Sector/Municipal Clients



We've worked with you and know your expectations.



Florida Chapter
Consultant of the Year
2015



Roads and Highways

Stantec Consulting Services



Cuban-American Association of Civil Engineers, Inc.
(Colegio de Ingenieros Civiles de Cuba)

Hereby presents the
2014 PROJECT OF THE YEAR
Category I

To

STANTEC (C3TS)

As the Design Engineer of Record

Old Cutler Road Roadway Improvements
Town of Cutler Bay, Florida

In recognition for your contributions in the field of Transportation Engineering,
always concerned for the welfare of our citizens and efficient
mobility of goods and people.

Awarded by the Executive Committee
On this 15th Day of March, 2014 in Miami, Florida

Victor J. Pujols, P.E., President

Nelson Perez-Jacome, E.S., Secretary

History with Palmetto Bay

Successfully Completed Projects

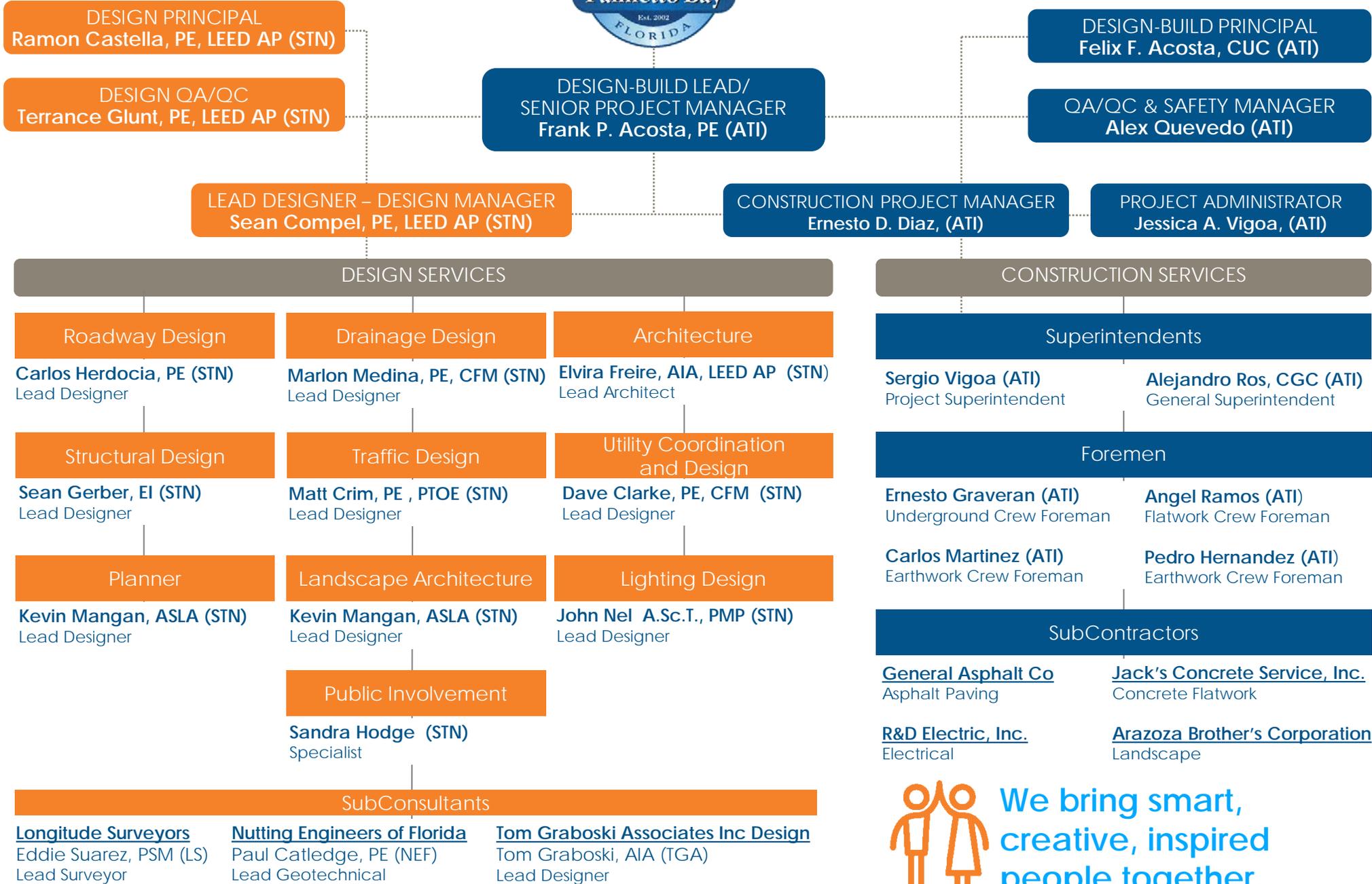
- Palmetto Bay Park
- Palmetto Bay Villagewide Drainage Improvements Phases I-V, included over 25 locations
- Perrine Wayside Park
- Multi-Year Asphalt Inspections
- Coral Reef Park Drainage Improvements
- Coral Reef Park Pedestrian Bridge Rehabilitation



We design
communities that
feel like home



Our People



 We bring smart, creative, inspired people together.

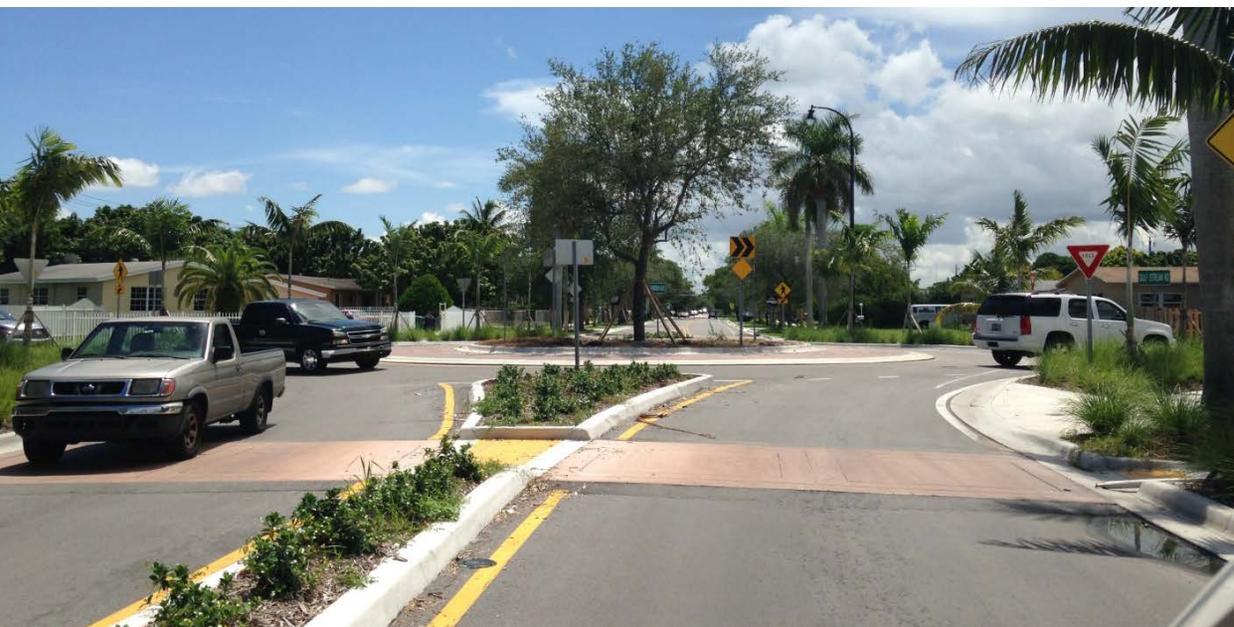
Our Team's Experience

Caribbean Boulevard Improvements (Coral Sea Rd. to SW 87th Ave. and Gap 1) Cutler Bay, FL

- Roadway **JPA** with Miami-Dade County
- Roadway beautification and traffic calming project
- **Traffic circles**, sidewalks, curbing, continuous drainage system, and lighting
- Decorative Bus Shelters, bus bays, street furniture
- **Xeriscape** landscape design, minimized impact to existing landscaping
- Median enhancements and new medians
- Continuous dedicated **bicycle lanes**
- Project received Contractor of the Year (Acosta) and Consultant of the Year (Stantec) awards from APWA



2015-Florida Chapter
Consultant of the Year Award



Our Team's Experience

Caribbean Boulevard Improvements (Coral Sea Rd. to SW 87th Ave. and Gap 1)
Cutler Bay, FL

2016-Florida Chapter
Consultant of the Year Award



Our Team's Experience

Caribbean Boulevard Improvements (Coral Sea Rd. to SW 87th Ave. and Gap 1)
Cutler Bay, FL

2016-Florida Chapter
Consultant of the Year Award

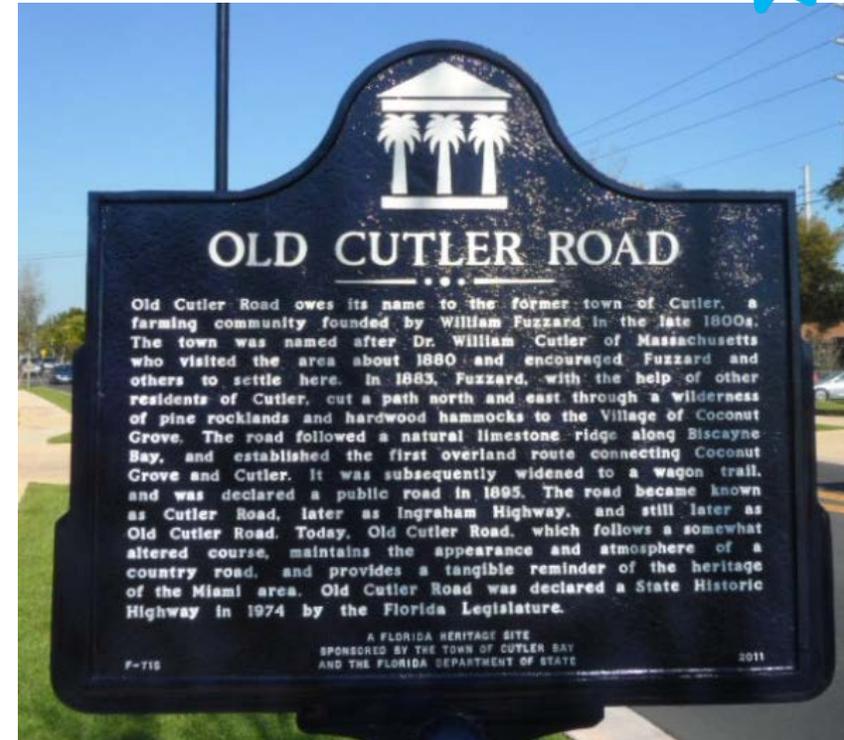


Our Team's Experience

Old Cutler Road Improvements (SW 87th Ave. – 97th Avenue) Cutler Bay, FL

- Born from 2002 **Old Cutler Road Charrette**
- Full streetscape improvements including traffic circles, pavement reconstruction, sidewalks, continuous drainage, medians, landscaping and lighting
- Historic Designated Roadway required special design considerations
- **Historic Marker** was applied for and obtained from the State
- Included electronic message board at Marlin Road
- Funded as part of a **JPA** between Miami-Dade County and the Town of Cutler Bay
- Awarded Project of the Year by Cuban American Association of Civil Engineers (CAACE)

2014-Project of the Year Award
Category I – by Cuban American
Association of Civil Engineers



Our Team's Experience



Old Cutler Road Improvements (SW 87th Ave. – 97th Avenue)
Cutler Bay, FL



Our Team's Experience

Old Cutler Road Improvements (SW 87th Ave. – 97th Avenue)
Cutler Bay, FL



Our Team's Experience



Downtown Redevelopment of Old US 41

Bonita Springs, FL

- \$14 Million urban realm project that the City of Bonita Springs partnered with Lee County as a in providing a **complete street** to this historic downtown area
- Public infrastructure renovations of water, sewer and **undergrounding of power** services along the .85 mile length of Old US 41
- Used pervious pavers, provides a **storm water bank** for private development so that private urban lands/future development do not have to be committed to storm drainage storage and attenuation
- Landscape, hardscape, street furnishings and multiuse paths, bikeways, sharrows and wide urban sidewalks
- Traffic calming including two new roundabouts



Our Team's Experience



Downtown Redevelopment of Old US 41 Bonita Springs, FL



Project Vision & Goals



Downtown Redevelopment Task Force Vision

“To redevelop Palmetto Bay’s downtown district into a vibrant and inviting work-live-play community”

Goals

- To create a sense of identity; a sense of community
- To expand services for residents
- To serve as an economic engine for the Village
- To diversify our tax revenue

Our Team is prepared to service as an “Extension” of the Village

- In-house staffing & resources
- Available to start immediately
- Flexible and available 24/7 to the Village/Stakeholders
- Homegrown firm and team reflective of the Community
- Seamless coordination

Project Typical Sections

Two Primary Typical Sections

Section 1

- SW 184th Street to US1

Section 2

- All Roads East of Franjo



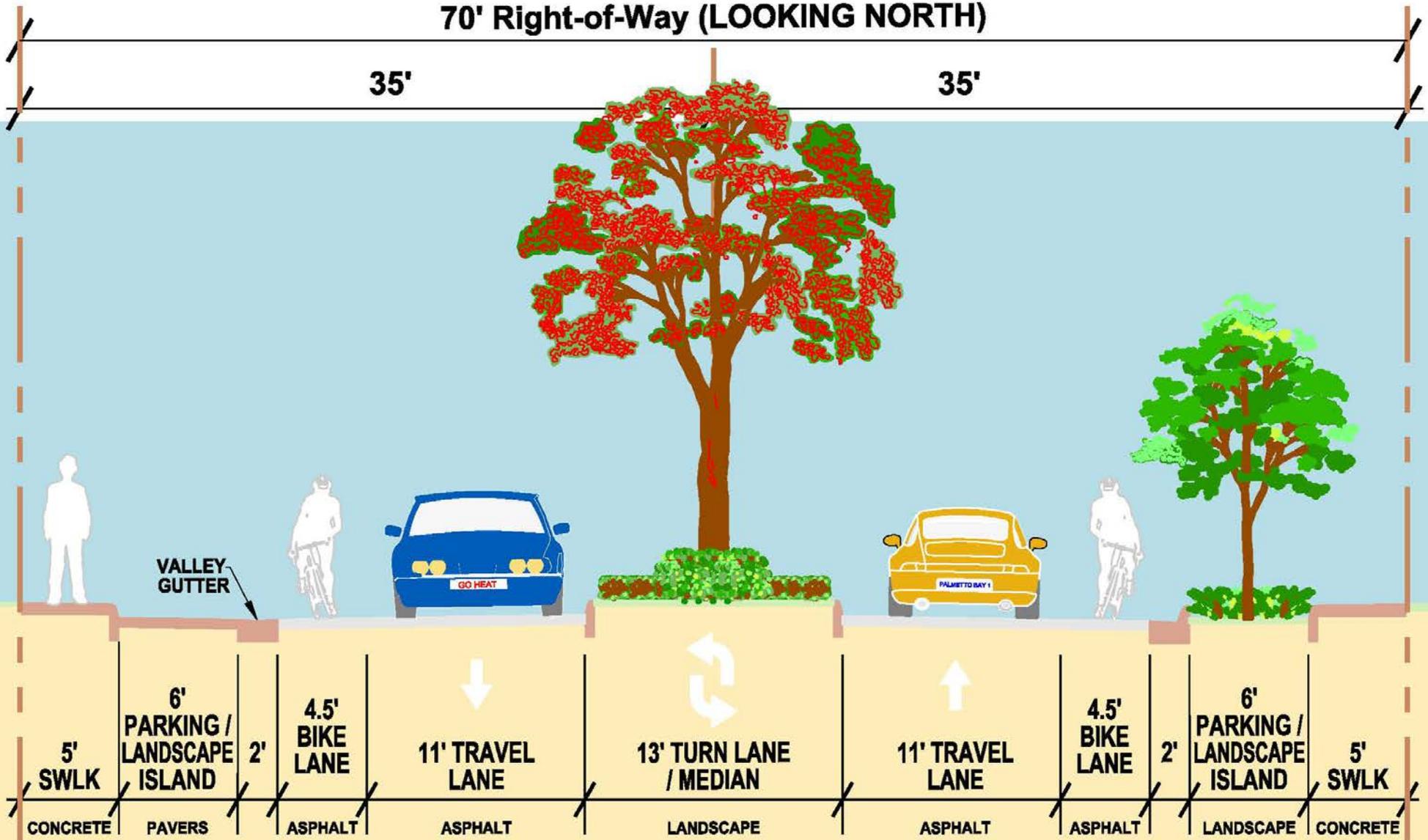
Typical Section 1



70' Right-of-Way (LOOKING NORTH)

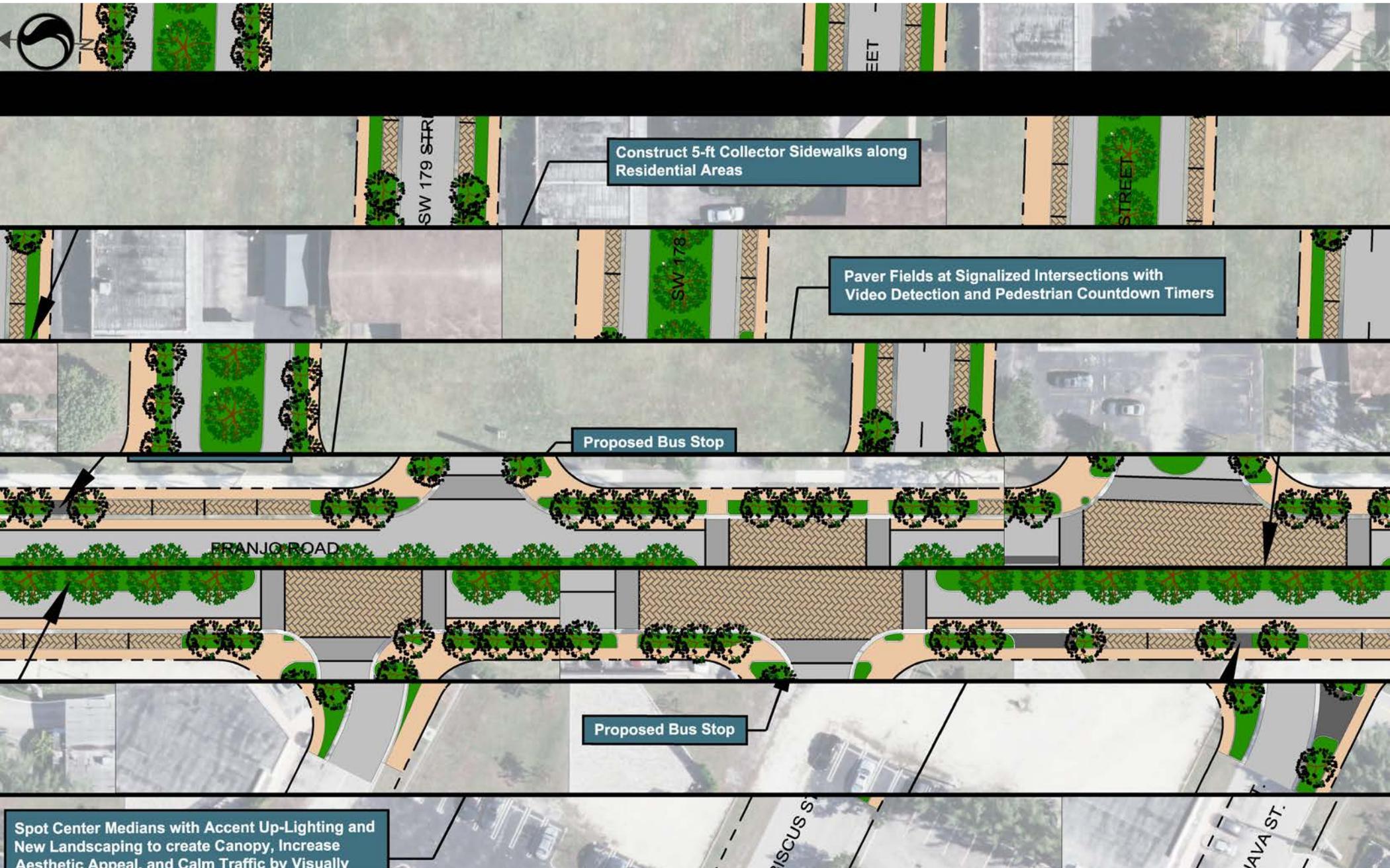
35'

35'



FRANJO ROAD IMPROVEMENTS (FROM SW 183 STREET TO US-1)

Typical Section 1: Plan



Construct 5-ft Collector Sidewalks along Residential Areas

Paver Fields at Signalized Intersections with Video Detection and Pedestrian Countdown Timers

Proposed Bus Stop

Proposed Bus Stop

Spot Center Medians with Accent Up-Lighting and New Landscaping to create Canopy, Increase Aesthetic Appeal, and Calm Traffic by Visually

SW 179 STREET

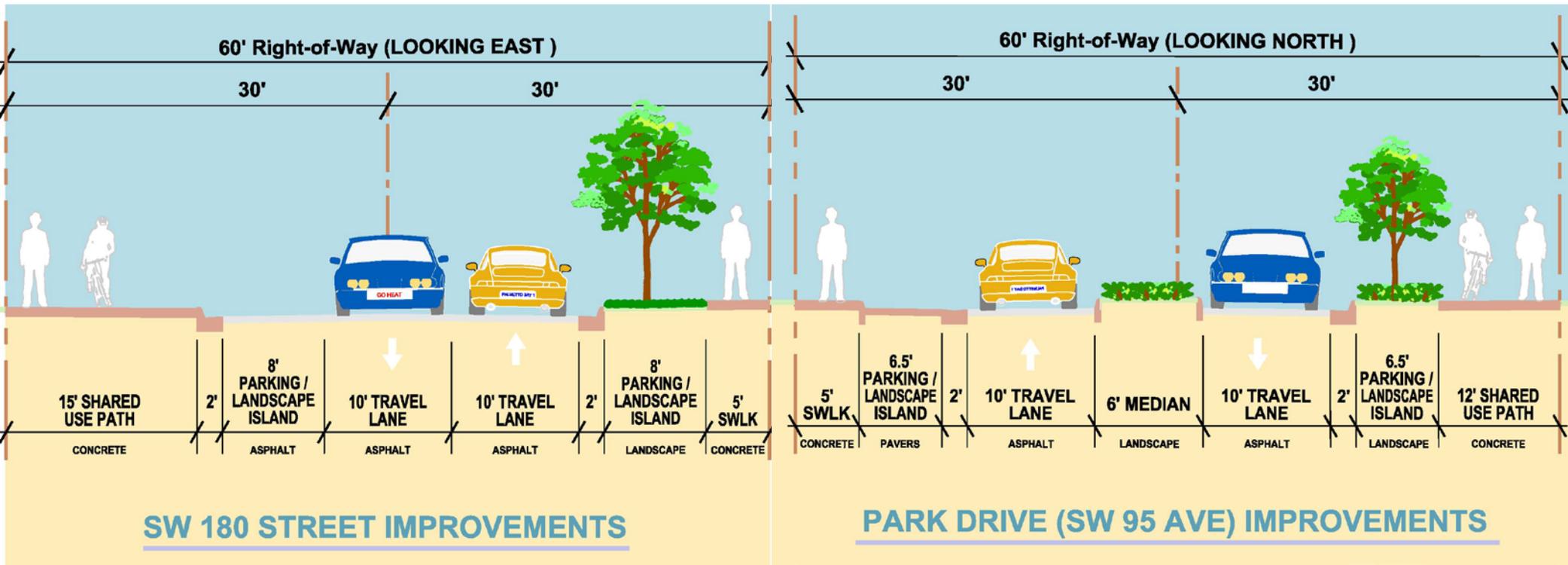
SW 178

FRANJO ROAD

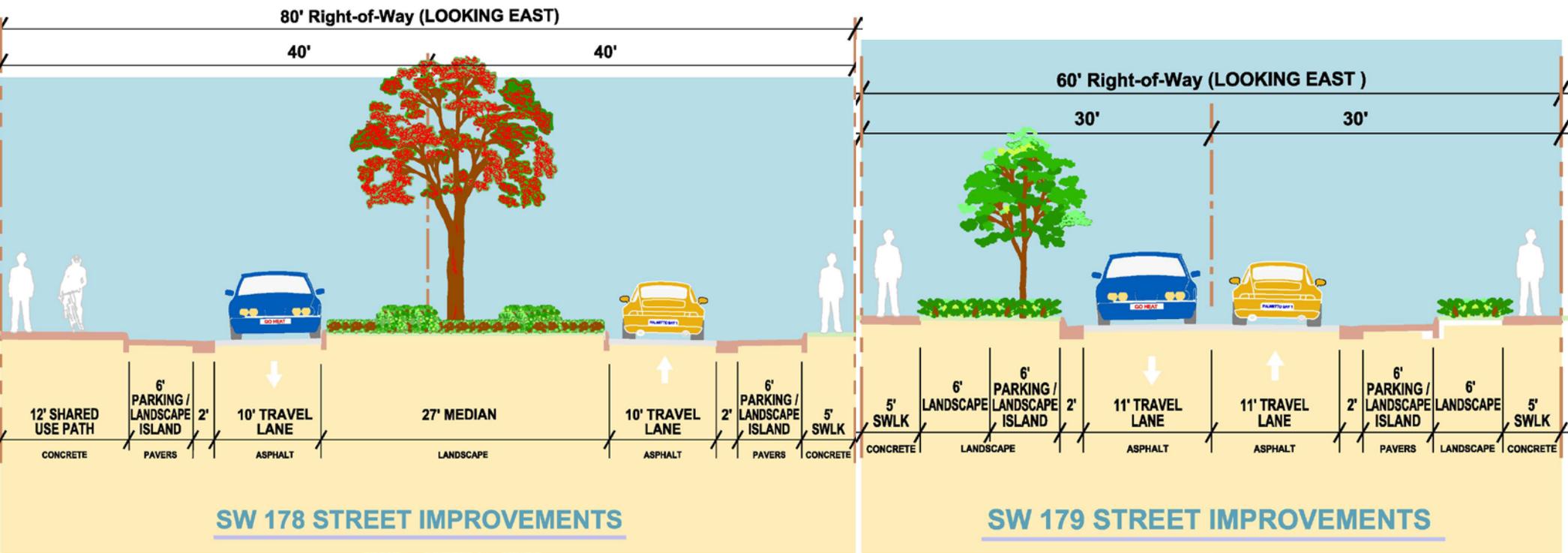
DISCUS S

AVA ST.

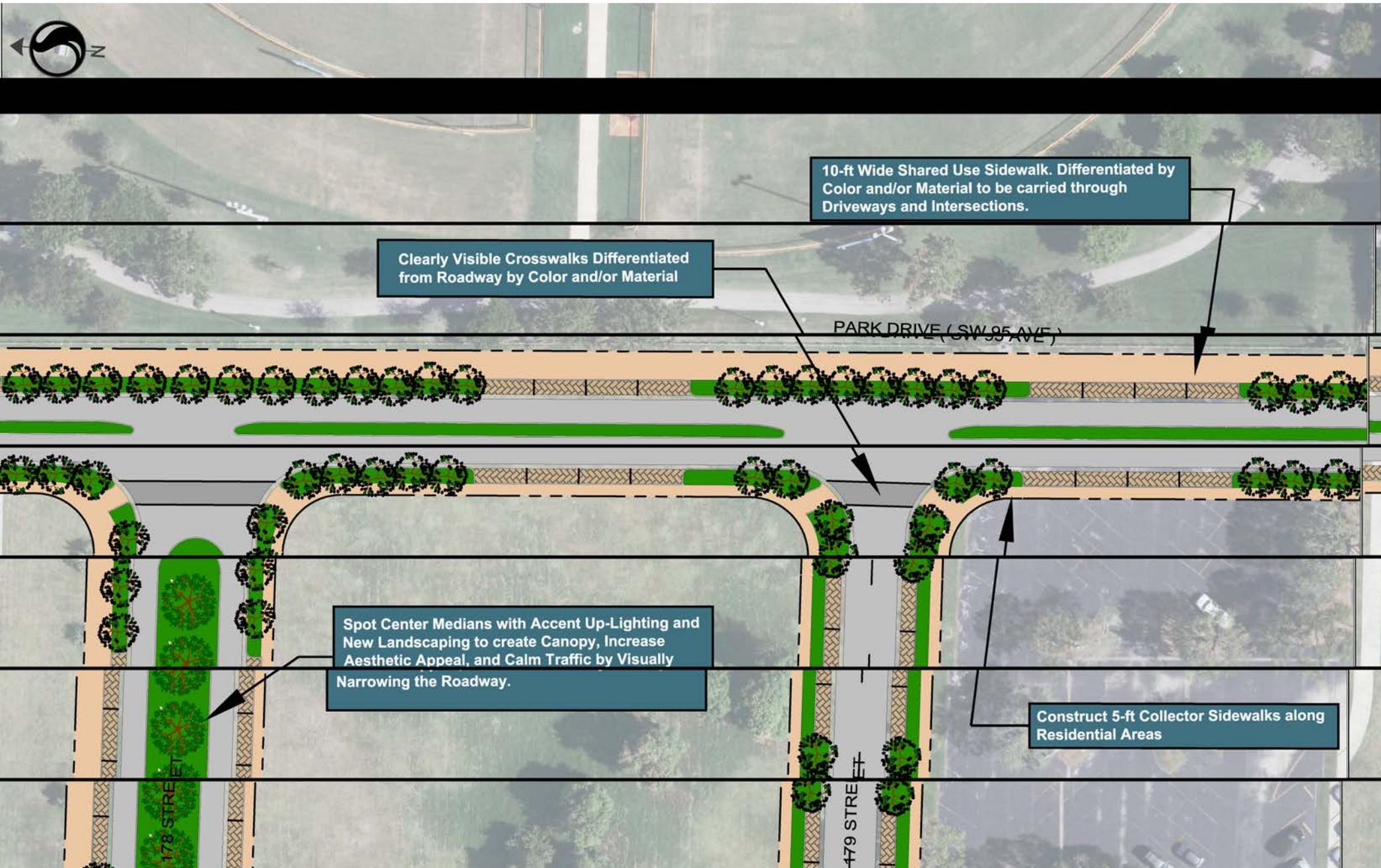
Typical Section 2



Typical Section 2



Typical Section 2: Plan



Project Considerations

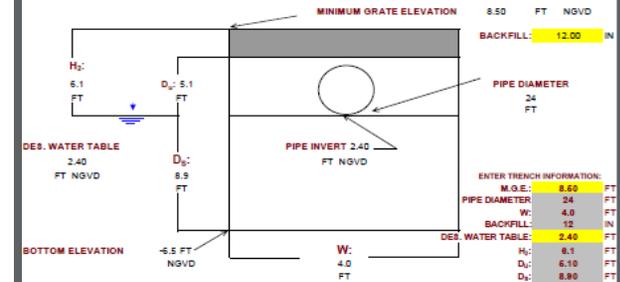
Drainage

- Exfiltration Trench for Quality & Quantity
- Utilize existing drainage where possible
- Interconnected System with minimum 24" Pipe
- 10 Year Storm with Safety Factor of 4.0
- Location of Exfiltration Trench to Minimize Conflicts
- Pollution Retardant Baffle with Port
- 2' Sump on Manholes & Catch Basins

DESIGN CRITERIA

10 Yr – 1 Hr Design Storm
 Safety Factor = 4.0'
 Basin 1 Area = 1.17 Ac.
 Soil K = 5.0 x 10⁻⁴ (estimated)
 Required Trench = 100 LF

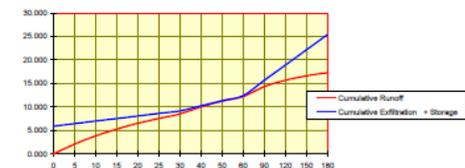
FRANJO ROAD



Area	1.17 Acres
Pervious	0.23 Acres
Impervious	0.94 Acres
Hydraulic Conductivity (k)	5.00E-04 cfs/ft
Exfiltration Rate	0.072395 cfs/ft
Storage	236.39 cft/ft
Weighted Coefficient of Runoff	0.81
Storm Design Frequency	10 Years
Time of Concentration	10 Minutes
Time to Generate 1" of Runoff	21 Minutes
French Drain Required	25 Feet
French Drain Provided	100 Feet
Factor of Safety	4.0

Time (min)	Int. (in/hr)	VOLUME (CF x 1000)		
		Cumulative Runoff	Cumulative Exfiltration + Storage	Overflow
0	0.000	0.000	5.910	-5.910
5	7.391	2.101	6.453	-4.352
10	6.742	3.834	6.996	-3.162
15	6.198	5.286	7.539	-2.252
20	5.735	6.522	8.082	-1.560
25	5.337	7.596	8.625	-1.038
30	4.990	8.512	9.168	-0.656
40	4.416	10.044	10.284	-0.209
50	3.961	11.261	11.339	-0.079
60	3.590	12.249	12.425	-0.176
90	2.804	14.350	15.683	-1.334
120	2.300	15.696	18.941	-3.245
150	1.950	16.631	22.199	-5.568
180	1.692	17.319	25.457	-8.138

MASS DIAGRAM FOR LINEAL FEET OF FRENCH DRAIN



Project Considerations



Permitting

Agency



Miami-Dade Department of Environmental Resources Management (DERM)



Miami-Dade Public Works M-DWASD



Village of Palmetto Bay



Florida Department of Environmental Protection (FDEP)

Permit

Environmental Resource Permit

Striping, Signage & Signalization
Water & Sewer Extensions

Phase Review & Right-of-Way (ROW) Permit

National Pollutant Discharge Elimination System (NPDES)

Project Considerations



Existing Utilities

- Comcast Cable
- Florida City Gas
- MDC Public Works
- Florida Power & Light
- MDC Water & Sewer
- ATT / Distribution

IRTH One Call

Page 1 of 2

FRANJO ROAD
Ticket : 146608699 Rev:000 Taken: 05/25/16 13:51ET

State: FL Cnty: DADE GeoPlace: CUTLER
CallerPlace: CUTLER
Subdivision:

Address :
Street : SW 97TH AVE
Cross 1 : SW 180TH ST
Within 1/4 mile: Y

Locat: RIGHT OF WAY TO RIGHT OF WAY ON 97TH AVE, STARTING AT 184TH ST GOING NORTH TO INTERSECTION US-1 AND ALSO 97TH AVE WITH INTERSECTION ON 180TH ST

Remarks : IN RESPONSE TO RECEIPT OF A DESIGN TICKET, SSOCCF PROVIDES THE ORIGINATOR OF THE DESIGN TICKET WITH A LIST OF SSOCCF MEMBERS IN THE VICINITY OF THE DESIGN PROJECT. SSOCCF DOES NOT NOTIFY SSOCCF MEMBERS OF THE RECEIPT BY SSOCCF OF A DESIGN TICKET. IT IS THE SOLE RESPONSIBILITY OF THE DESIGN ENGINEER TO CONTACT SSOCCF MEMBERS TO REQUEST INFORMATION ABOUT THE LOCATION OF SSOCCF MEMBERS' UNDERGROUND FACILITIES. SUBMISSION OF A DESIGN TICKET WILL NOT SATISFY THE REQUIREMENT OF CHAPTER 556, FLORIDA STATUTES, TO NOTIFY SSOCCF OF AN INTENT TO EXCAVATE OR DEMOLISH. THAT INTENT MUST BE MADE KNOWN SPECIFICALLY TO SSOCCF IN THE MANNER REQUIRED BY LAW. IN AN EFFORT TO SAVE TIME ON FUTURE CALLS, SAVE YOUR DESIGN TICKET NUMBER IF YOU INTEND TO BEGIN EXCAVATION WITHIN 90 DAYS OF YOUR DESIGN REQUEST. THE DESIGN TICKET CAN BE REFERENCED, AND THE INFORMATION ON IT CAN BE USED TO SAVE TIME WHEN YOU CALL IN THE EXCAVATION REQUEST.

*** LOOKUP BY MANUAL ***

Grids : 2535A8020A 2536B8020A 2536B8021D 2536C8020A 2536C8021D
Grids : 2536D8020A 2536D8020B 2536D8021D

Work date: 05/25/16 Time: 14:23ET Hrs notc: 000 Category: 6 Duration: 01 DAY
Due Date : 05/27/16 Time: 23:59ET Exp Date : 06/24/16 Time: 23:59ET
Work type: DESIGN Boring: N White-lined: N
Ug/Oh/Both: U Machinery: N Depth: 0 Permits: N N/A
Done for : DESIGN

Company : STANTEC Type: CONT
Co addr : 901 PONCE DE LEON BLVD
Co addr2: SUITE 900
City : CORAL GABLES State: FL Zip: 33134
Caller : MAYRA RUIZ Phone: 305-445-2900
BestTime: 8 TO 5
Email : MAYRA.RUIZ@STANTEC.COM

Submitted: 05/25/16 13:51ET Oper: MAY Chan: WEB
Mbrs : CC1280 CITYGS DCPWT FPLDAD FPLFOD HT1010 INTECH LS1104 MDWS SBF23
Mbrs : TL2051

IRTH One Call

Page 2 of 2

		NEWBOLD		
CITYGS	FLORIDA CITY GAS	OSCAR RODRIGUEZ	Day: (305) 835 - 3650 Alt: (786) 575 - 8547	NATURAL GAS DISTRIBUTION SYS.
DCPWT	DADE COUNTY PUBLIC WORKS AND TRAFFIC	OCTAVIO VIDAL	Day: (305) 412 - 0891 x201 Alt: (786) 345 - 0986	TRAFFIC/STR LIGHTS
FPLDAD	FLORIDA POWER & LIGHT--DADE	TRACY STERN	Day: (800) 868 - 9554 Alt: (386) 329 - 5152	ELECTRIC
FPLFOD	FPL FIBERNET LLC	DANNY HASKETT	Day: (305) 552 - 2931 Alt: (786) 246 - 7827	FIBER
INTECH	MIAMI- DADE ENTERPRISE TECHNOLOGY SERVICES DEPT	PETER J. COLLIS	Day: (786) 256 - 1554 Alt: (786) 256 - 1554	FIBER OPTICS
MDWS	MIAMI-DADE WATER & SEWER	SERGIO GARCIA	Day: (786) 268 - 5320	WATER AND SEWER
SBF23	A T & T/ DISTRIBUTION	STEVE LOW	Day: (305) 222 - 8745	TELEPHONE

Service Area Code	Service Area Name	Contact	Phone Numbers	Utility Type
CC1280	COMCAST CABLE	LEONARD MAXWELL-	Day: (954) 447 - 8405 Alt: (954) 444 - 5113	CATV & FIBER

Project Considerations



Conversion of Utilities: Overhead to Underground

- Local experience with undergrounding in Golden Beach, Miami Beach, & Key Biscayne
- Utility companies responsible for design and maintenance of their systems (FPL, Comcast, ATT)
- Critical component in project schedule
- Finalize agreements with utilities as soon as possible

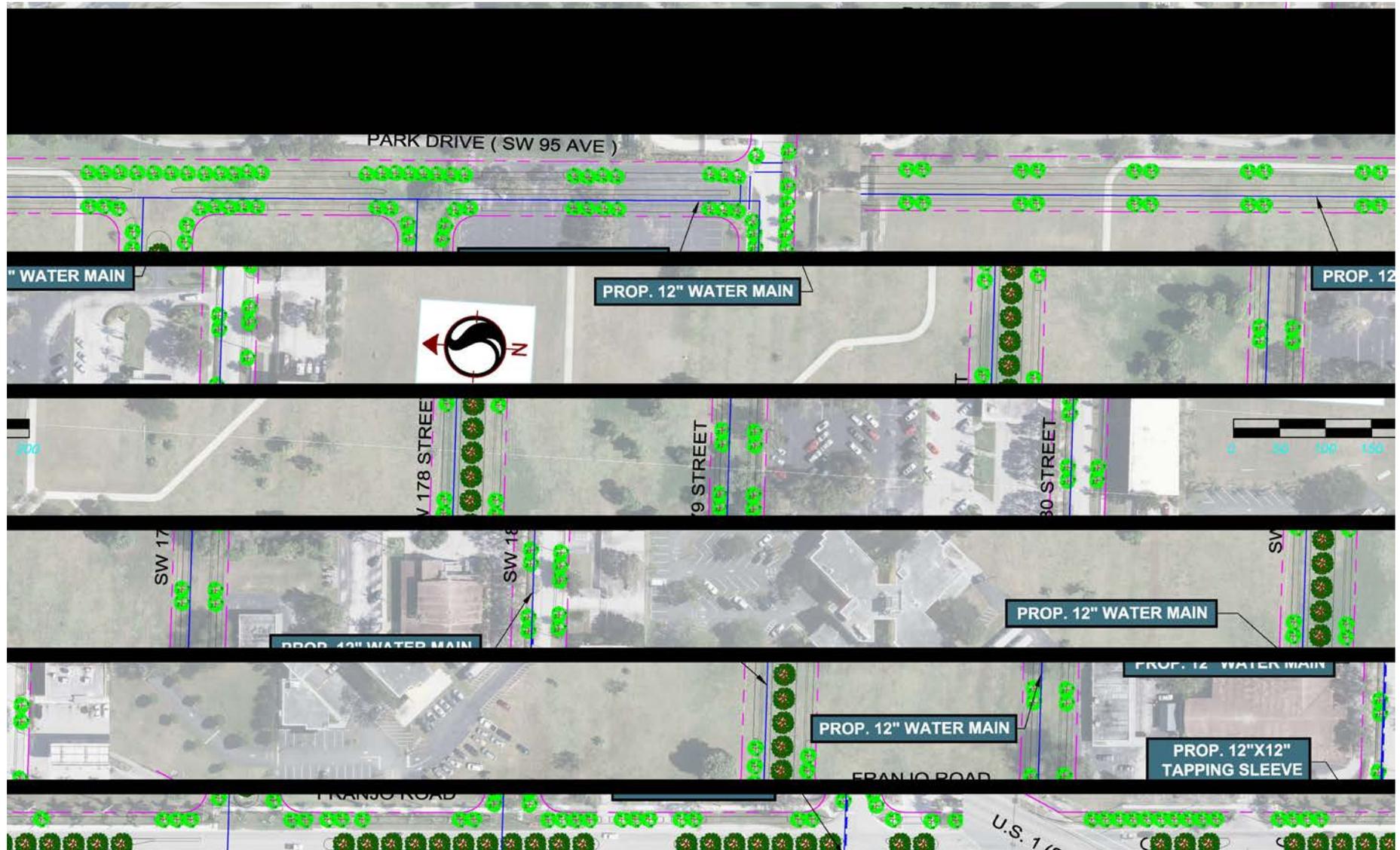


Project Considerations



Watermain

- Existing mains on Franjo Road meet minimum MDWASD requirements
- Extensions will be required for new roads east of Franjo
- Stub-outs can be installed in first phase to avoid future disruption



Project Considerations



Landscaping

- Maintain existing tree canopy where possible
- Use native species with Low maintenance requirements
- Shade trees to promote sidewalk usage
- Shade trees & oaks to predominate – stately ordered scale
- Encourage shade tree planting behind sidewalks
- Recommended Trees: Verawood, Bridalveil, Silver Buttonwood, Crape Myrtle, Highrise Live Oak

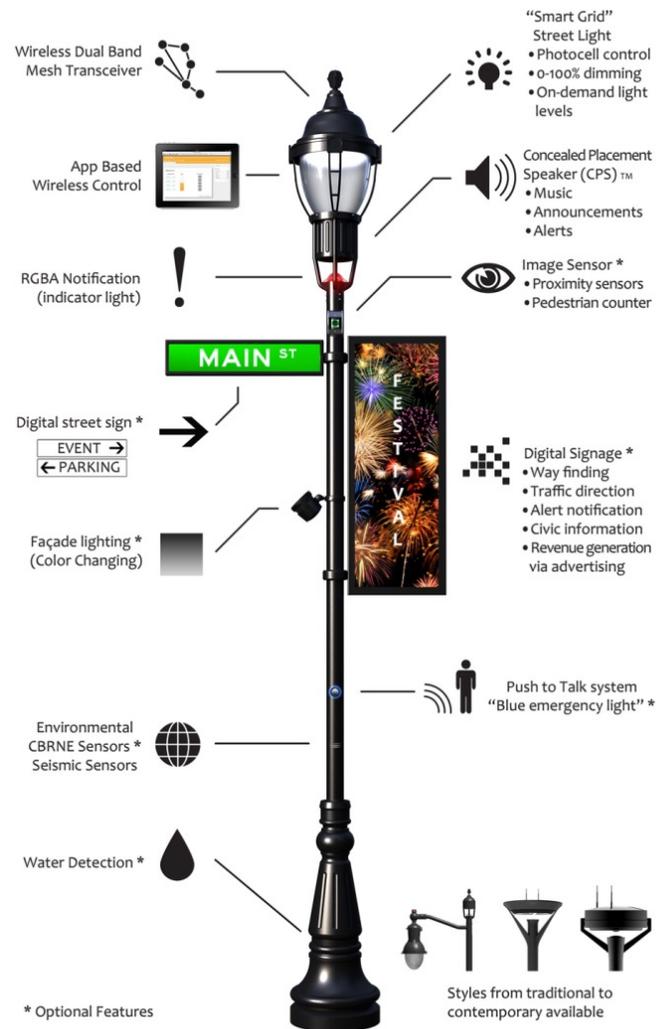


Project Considerations



Lighting

- Provide new street lighting with 50' spacing, staggered
- Use standard light poles with upgrade options
- Install intellistreet at strategic locations



Project Considerations

Transit Stops

- Currently there are 7 bus stops along this route; 3 Northbound, 4 Southbound
- Proposed a total of 7 potential bus shelters
- Various options available



Architectural Features

Street Furniture

- Benches, trash receptacles, bicycle bollards
- Various options available
- Standard type should tie into the theme used at Village Hall



Architectural Features



Franjo Entrance Sign

- Concept Design by Tom Graboski & Associates (TGA)
- TGA designed “branding” system elements for the Village (street signs, entrance monument signs, ibus components)



Project Considerations

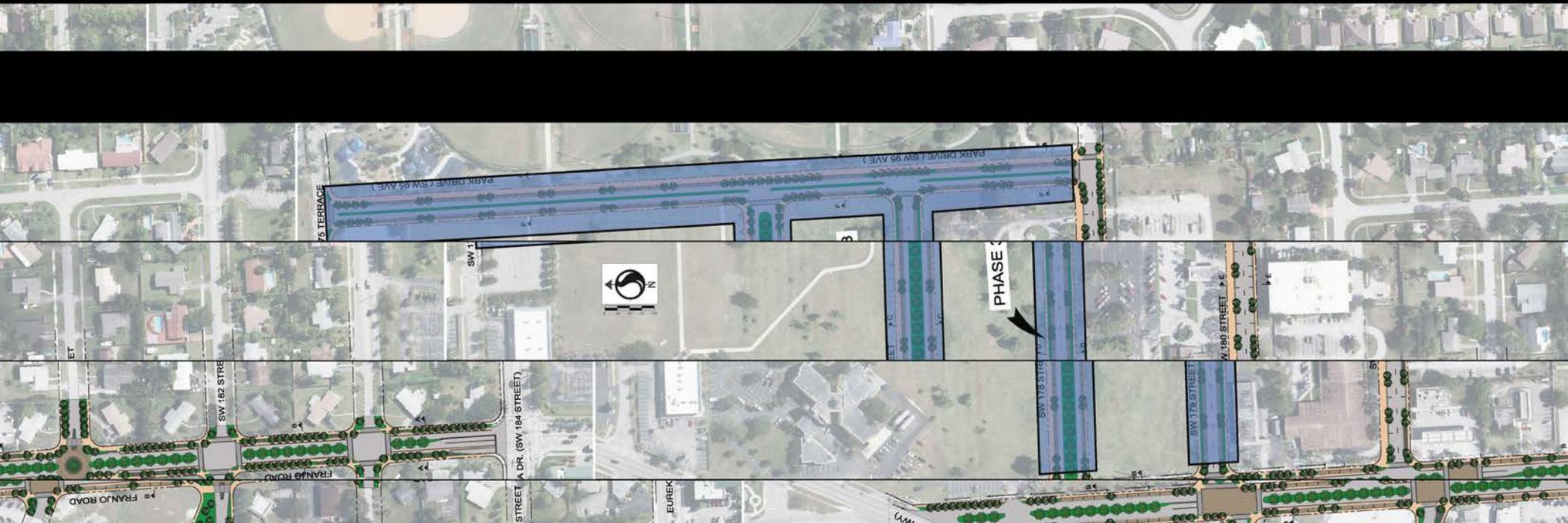


Maintenance of Traffic

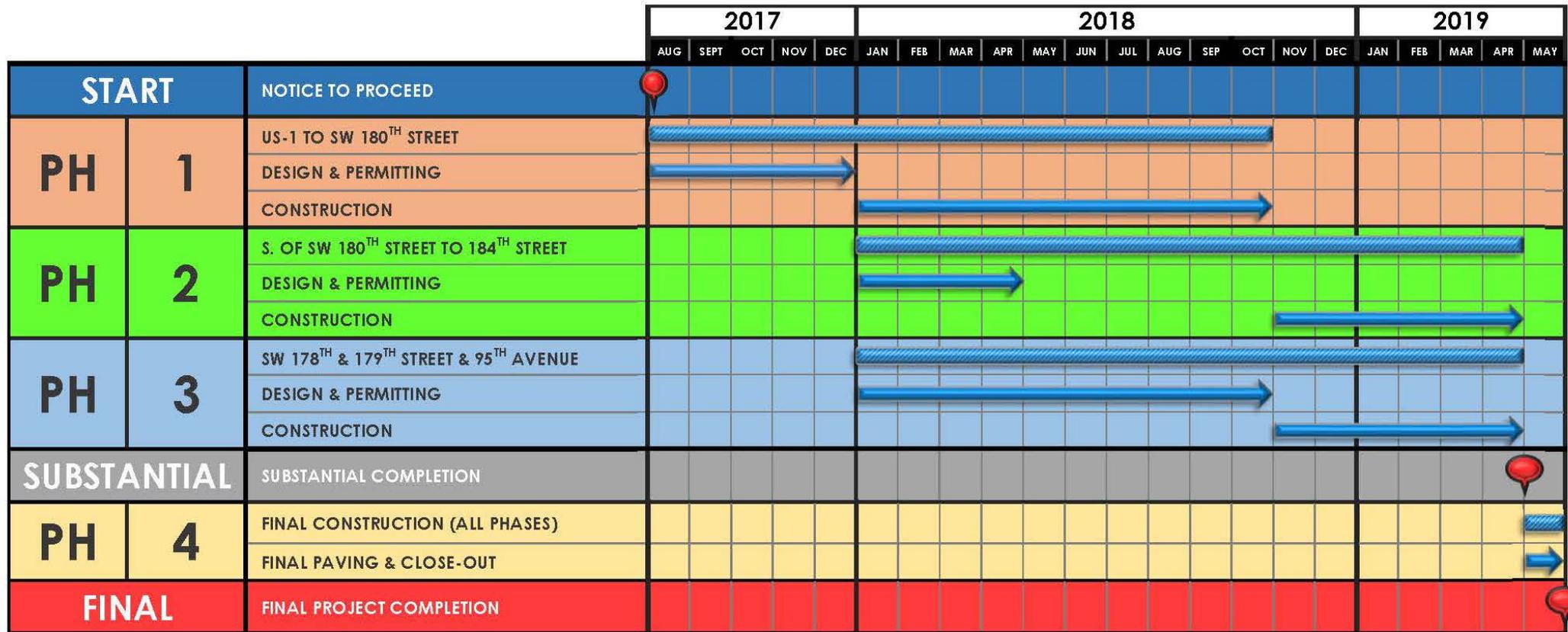
Goals

- Minimize Traffic Disruptions
- Safety of pedestrians and vehicles
- Maintain access to businesses and residents

MOT Phase 3



Schedule



Finding project balance is about getting it done the right way —with care, creativity, and efficiency.

Price Sheet

Phase 1	\$4,136,394.82
Phase 2	\$3,048,073.06
Phase 3	\$3,143,686.41
Sub-Total Base Bid	\$10,328,154.29
Optional Items	\$802,882.15
Grand Total	\$11,131,036.44
Undergrounding Budget	\$350,000.00



Our inventive and collaborative approach to problem solving helps bring big ideas to life.

What will set our team apart?



Your SUCCESS is our FOCUS!

- 1 We're excited...we share your vision
- 2 We have done this before
- 3 We have the team to succeed quickly and effectively

Thank you!