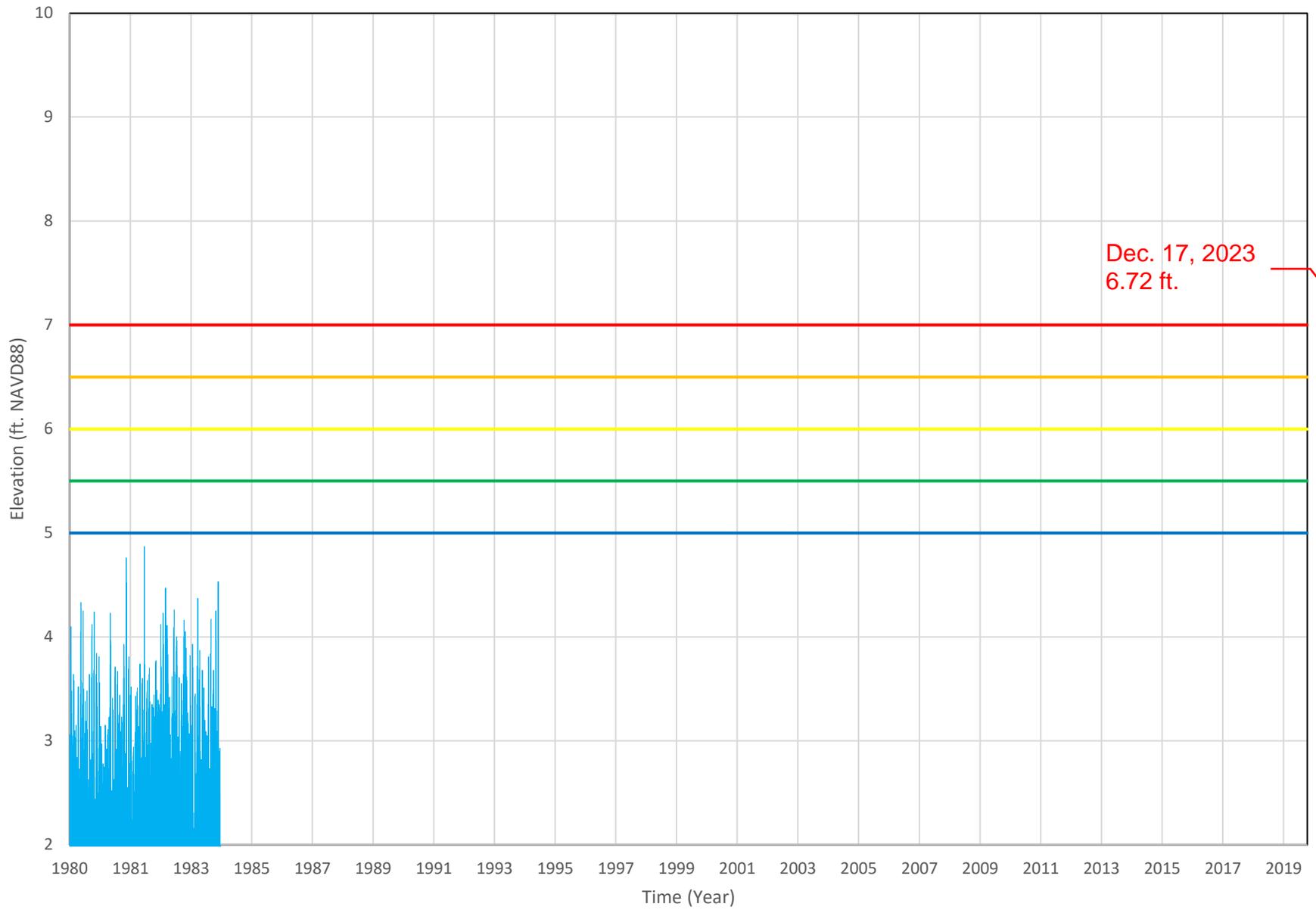


Charleston Harbor Tides



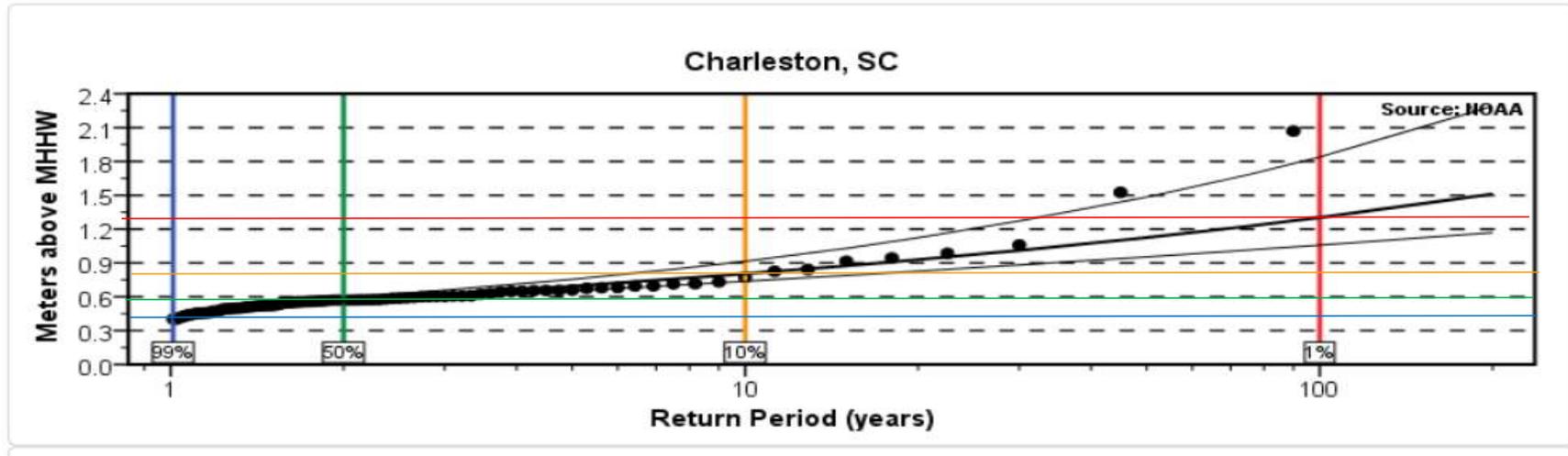
**City of Isle of Palms
Waterway Blvd. Path - Elevation Study
Charleston Harbor Historic Maximum Tides (POR)**

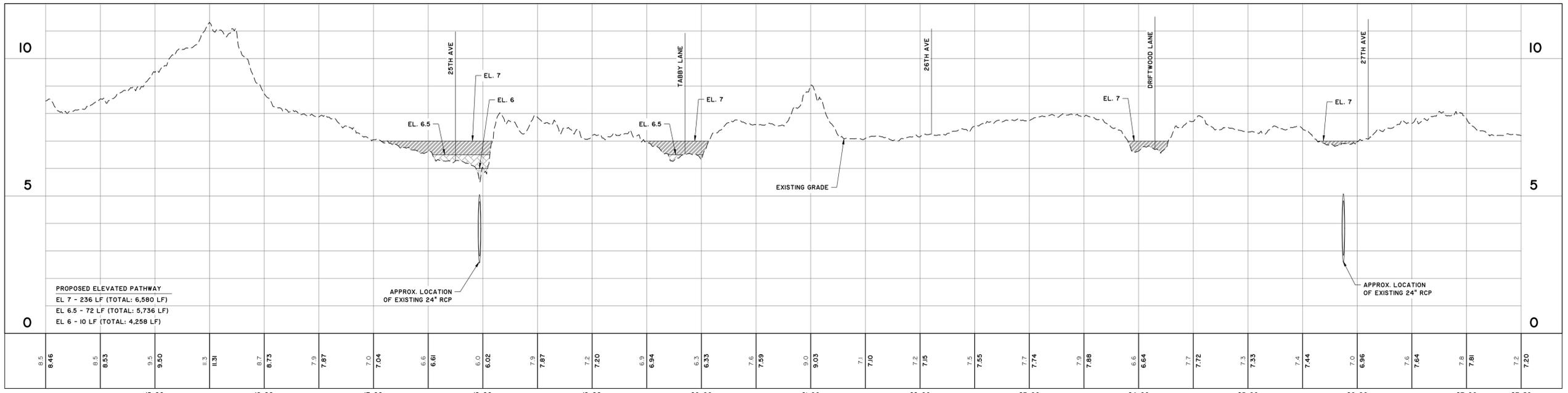
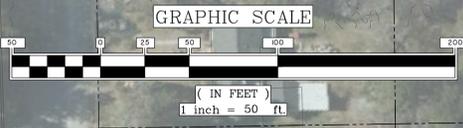
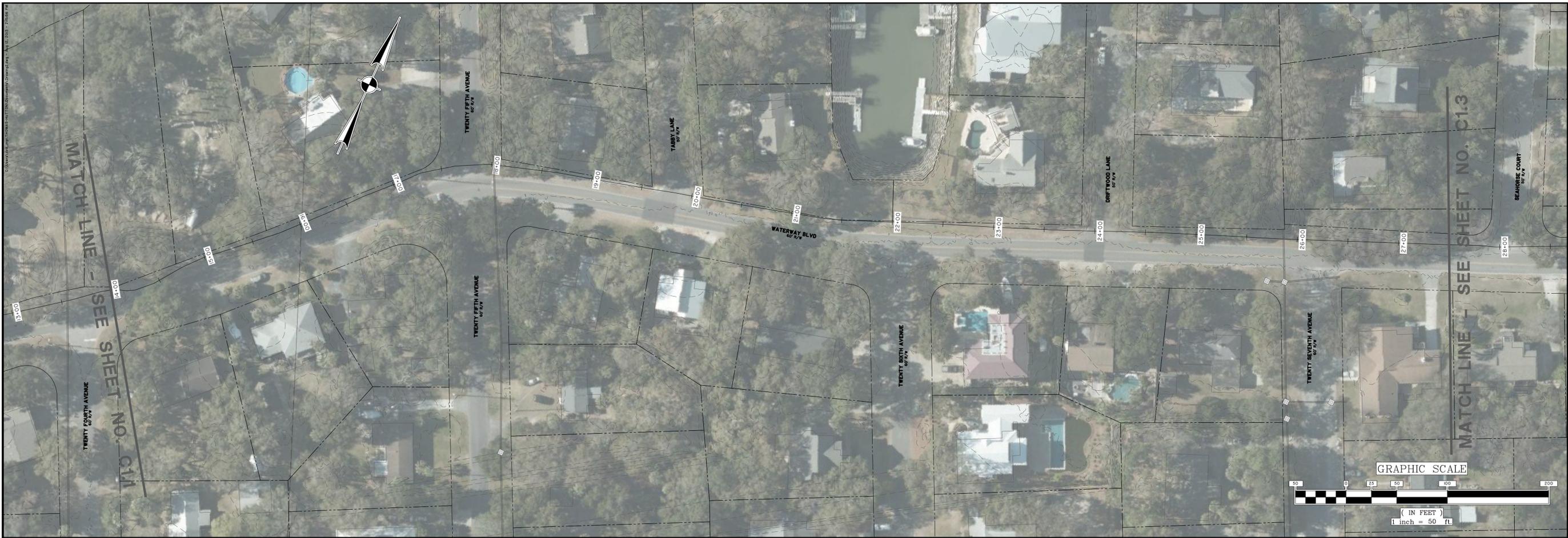
Historic Crests (MLLW)	Elev. (ft.)		
	MLLW	NGVD88	
(1) 12.52 ft on 09/22/1989	12.52	9.38	
(2) 10.23 ft on 08/11/1940	10.23	7.09	
(3) 9.92 ft on 09/11/2017	9.92	6.78	← 6.72 ft on 12/17/2023
(4) 9.29 ft on 10/08/2016	9.29	6.15	tidal flooding above target protection
(5) 8.81 ft on 01/01/1987	8.81	5.67	
(6) 8.76 ft on 11/24/2018	8.76	5.62	
(7) 8.69 ft on 10/27/2015	8.69	5.55	
(8) 8.64 ft on 05/28/1934	8.64	5.50	
(9) 8.64 ft on 09/04/1979	8.64	5.50	
(10) 8.46 ft on 11/02/1947	8.46	5.32	
(11) 8.29 ft on 10/03/2015	8.29	5.15	
(12) 8.27 ft on 10/28/2015	8.27	5.13	
(13) 8.21 ft on 10/04/2015	8.21	5.07	
(14) 8.15 ft on 10/15/1947	8.15	5.01	
(15) 8.14 ft on 11/23/2018	8.14	5.00	tidal protection from sealing drainage
(16) 8.14 ft on 09/29/1959	8.14	5.00	
(17) 8.12 ft on 09/20/2020 (P)	8.12	4.98	
(18) 8.11 ft on 06/22/2009	8.11	4.97	
(19) 8.09 ft on 09/15/2020 (P)	8.09	4.95	
(20) 8.08 ft on 08/30/2019	8.08	4.94	
(21) 8.07 ft on 09/19/2020 (P)	8.07	4.93	
(22) 8.06 ft on 12/24/2019	8.06	4.92	
(23) 8.06 ft on 06/23/2009	8.06	4.92	
(24) 8.05 ft on 12/09/2018	8.05	4.91	
(25) 8.05 ft on 09/29/2015	8.05	4.91	
(26) 8.03 ft on 02/20/2019	8.03	4.89	
(27) 8.03 ft on 09/21/2020 (P)	8.03	4.89	
(28) 8.02 ft on 08/29/2019	8.02	4.88	
(29) 8.01 ft on 06/18/1982	8.01	4.87	
(30) 8.01 ft on 07/21/2001	8.01	4.87	
(31) 8.01 ft on 12/31/1994	8.01	4.87	
(32) 8.01 ft on 09/28/2015	8.01	4.87	
(33) 8.00 ft on 01/30/2010	8.00	4.86	
	9.14	6	

(P): Preliminary values subject to further review.
 Period of Record (POR): approx. 1980 to present

City of Isle of Palms
 Waterway Blvd. Path - Elevation Study
 Charleston Harbor Tidal Return Frequencies

Meters MHHW	Feet MHHW	Feet NAVD88	Annual Prob. Of Exceed.	Return Period	
1.33	4.4	7.0	>1%	+100-yr	
1.18	3.9	6.5	1.7%	~59-yr	
1.03	3.4	6.0	3.7%	~27-yr	Proposed Target
0.88	2.9	5.5	6.7%	~15-yr	
0.72	2.4	5.0	20%	~5-yr	
0.57	1.9	4.5	50%	~2-yr	
0.42	1.4	4.0	99%	<1-yr	
0.44	1.44	4.1	99%	~1-yr	
0.59	1.94	4.6	50%	2-yr	
0.78	2.56	5.2	10%	10-yr	
1.29	4.23	6.9	1%	100-yr	





PROPOSED ELEVATED PATHWAY
 EL 7 - 236 LF (TOTAL: 6,580 LF)
 EL 6.5 - 72 LF (TOTAL: 5,736 LF)
 EL 6 - 10 LF (TOTAL: 4,258 LF)

APPROX. LOCATION OF EXISTING 24" RCP

APPROX. LOCATION OF EXISTING 24" RCP

WATERWAY BLVD. PATHWAY
 STATIONS: 14+00 - 27+50
 SCALE: HORZ.: 1" = 50'
 VERT.: 1" = 2'

NO.	REVISIONS	BY	DATE

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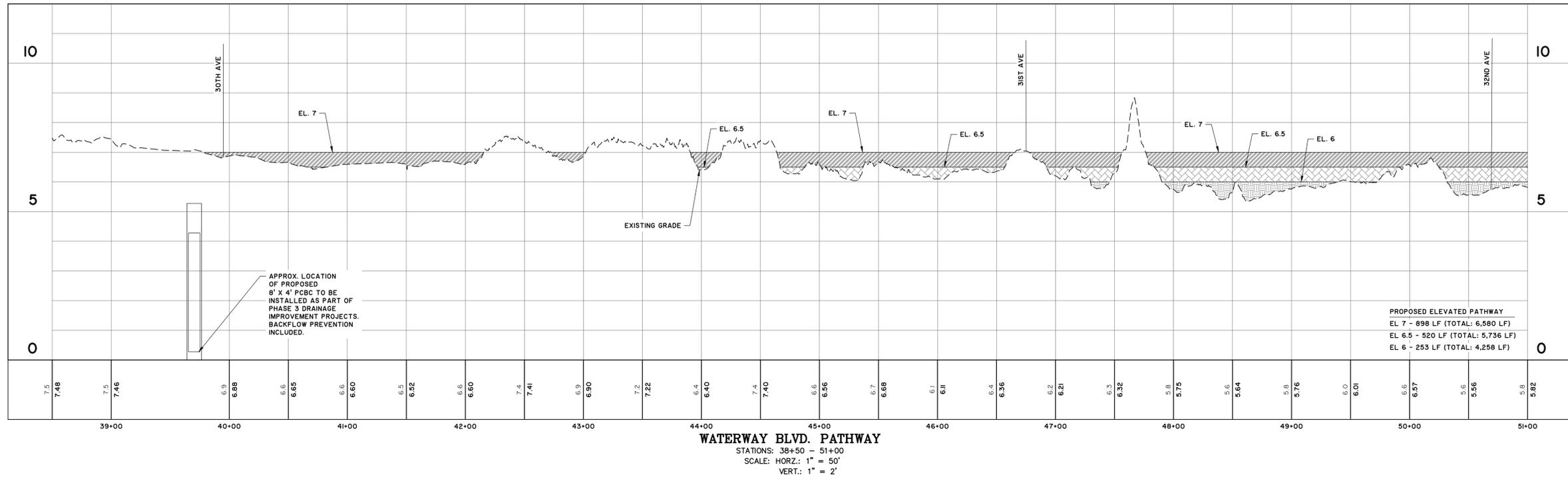
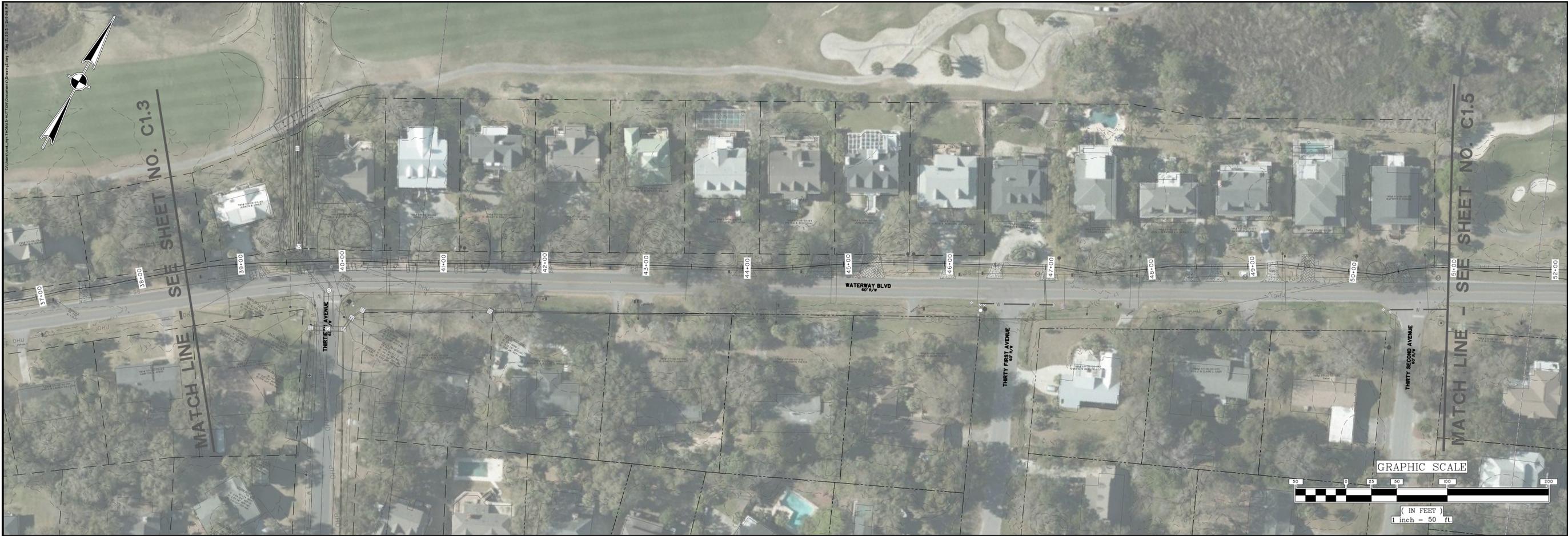
CITY OF ISLE OF PALMS
 ISLE OF PALMS, CHARLESTON COUNTY, SOUTH CAROLINA

WATERWAY BLVD PATHWAY

PLAN & PROFILE

JOB NO:	J- 27670.0009
DATE:	9/21/2020
DRAWN:	HEA
DESIGNED:	HEA
REVIEWED:	RPK
APPROVED:	RPK
SCALE:	AS NOTED

CA1.2



NO.	REVISIONS	BY	DATE

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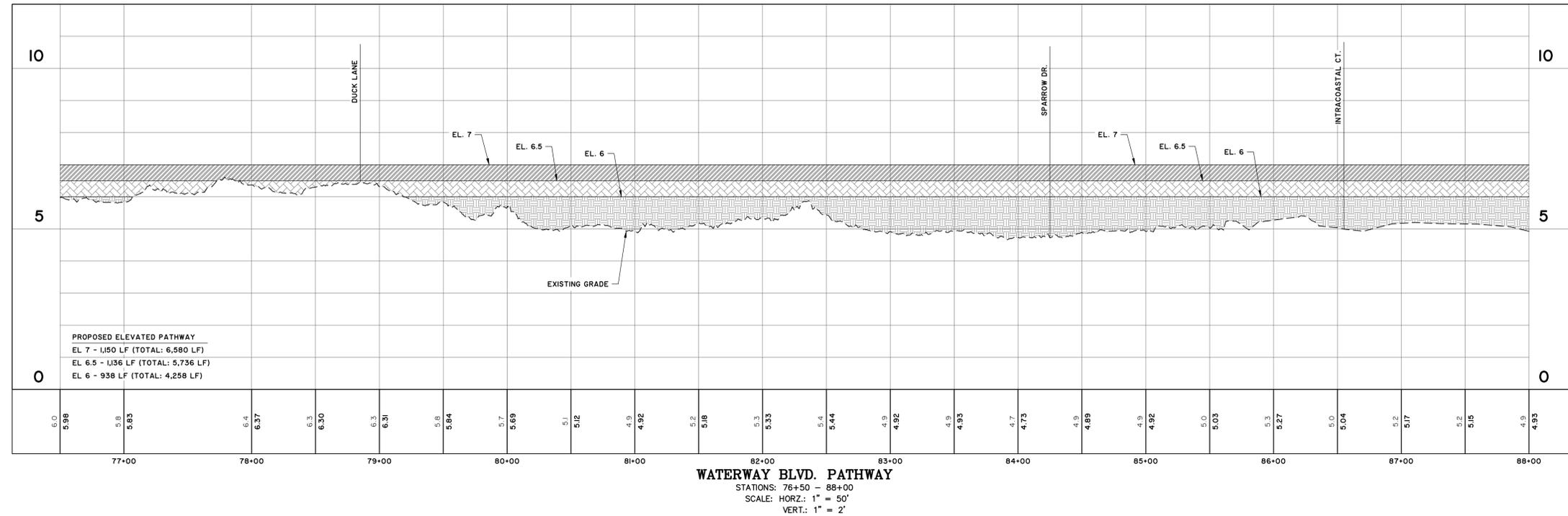
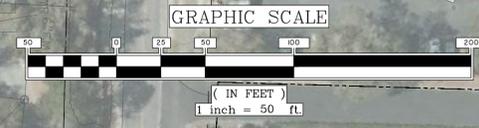
CITY OF ISLE OF PALMS
 ISLE OF PALMS, CHARLESTON COUNTY, SOUTH CAROLINA

WATERWAY BLVD PATHWAY

PLAN & PROFILE

JOB NO:	J-27670.0009
DATE:	9/21/2020
DESIGNED:	HEA
REVIEWED:	RPK
APPROVED:	RPK
SCALE:	AS NOTED

CA1.4



WATERWAY BLVD. PATHWAY
 STATIONS: 76+50 - 88+00
 SCALE: HORZ.: 1" = 50'
 VERT.: 1" = 2'

NO.	REVISIONS	BY	DATE

NO.	REVISIONS	BY	DATE

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CITY OF ISLE OF PALMS
 ISLE OF PALMS, CHARLESTON COUNTY, SOUTH CAROLINA
WATERWAY BLVD PATHWAY
PLAN & PROFILE

JOB NO:	J- 27670.0009
DATE:	9/21/2020
DRAWN:	HEA
DESIGNED:	HEA
REVIEWED:	RPK
APPROVED:	RPK
SCALE:	AS NOTED

CA1.7



Channels
 Pipes
6.0 ft. Protection
 Constructed
 Elevation

0 150 300 600 900 1200 1500 Feet
 1 inch = 300 feet

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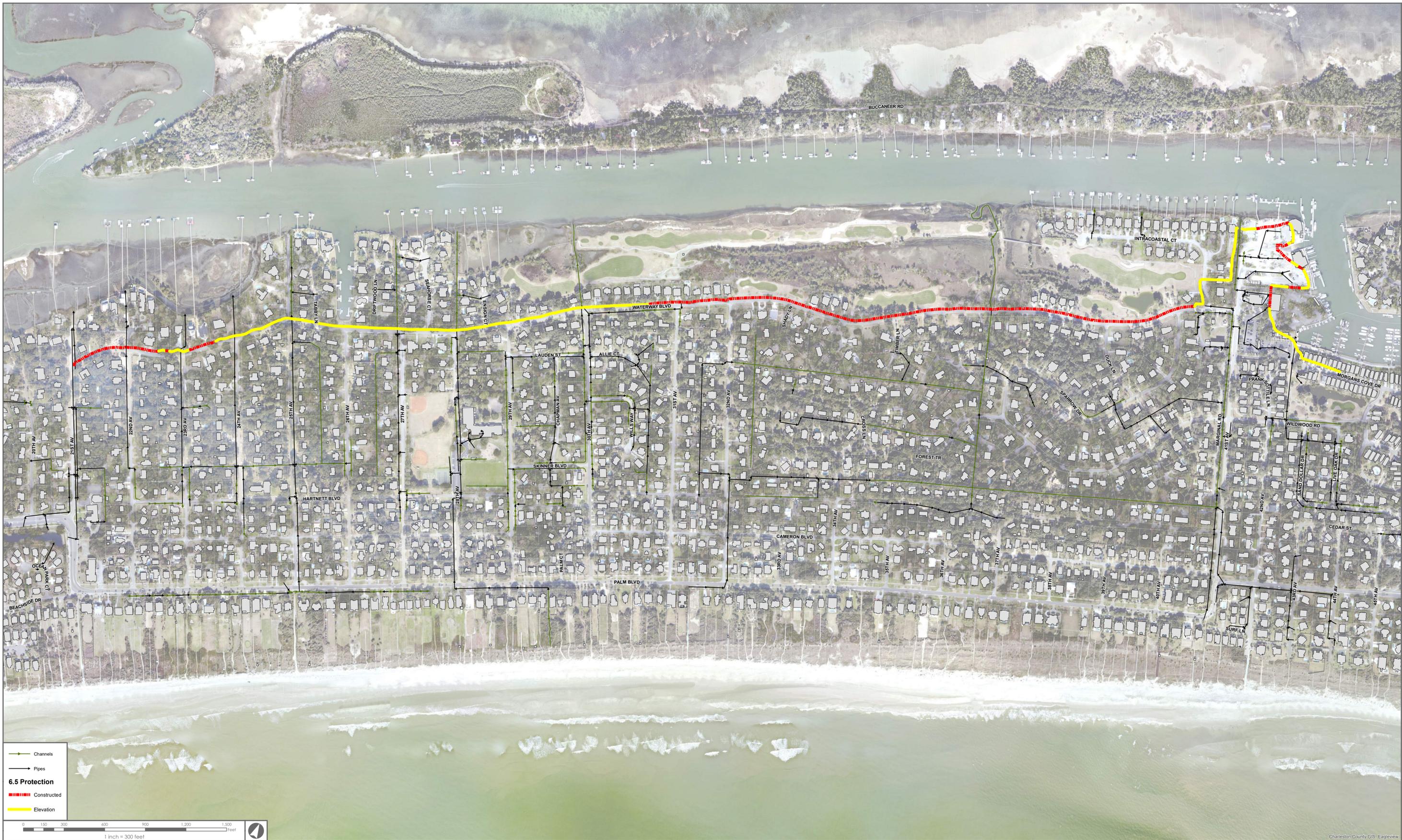
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Tidal Flood Inundation

City of Isle of Palms, SC

Proposed 6.0 ft. Protection Improvements


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Tidal Flood Inundation

City of Isle of Palms, SC

Proposed 6.5 ft. Protection Improvements



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Tidal Flood Inundation : Post-Project Conditions

Exhibit



— Channels
 — Pipes
7.0 Protection
 - - - - - Constructed
 — Elevation

0 150 300 600 900 1,200 1,500
 Feet
 1 inch = 300 feet

Job Number:	Produced:	Produced By:	Modified:	Modified By:
File: Z:\27670\27670.0005\GIS\Mxd\27670.0005_7.0Plan_PostProject.mxd			2/7/2024	
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Tidal Flood Inundation

City of Isle of Palms, SC

Proposed 7.0 ft. Protection Improvements

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Tidal Flood Inundation : Post-Project Conditions

Exhibit



Tidal Flood Inundation : Pre-Project Condition

Channels
 Pipes
 Inundated Area

0 150 300 600 900 1200 1500
 Feet
 1 inch = 300 feet

Job Number:	Produced:	Produced By:	Modified:	Modified By:
File: Z:\27670\27670.0005\GIS\Mxd\27670.0005_6.0Plan_PrefProject.mxd			11/3/2020	
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Tidal Flood Inundation

City of Isle of Palms, SC

Proposed 6.0 ft. Protection Improvements

Pre-Project Conditions



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Exhibit



— Channels
 — Pipes
 ■ Inundated Area
6.0 ft. Protection
 - - - - - Constructed
 - - - - - Elevation

0 150 300 600 900 1200 1500 Feet
 1 inch = 300 feet

Job Number:	Produced:	Produced By:	Modified:	Modified By:
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Tidal Flood Inundation

City of Isle of Palms, SC

Proposed 6.0 ft. Protection Improvements

Post-Project Conditions


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Tidal Flood Inundation : Post-Project Conditions

Exhibit



- Channels
- Pipes
- Inundation Affected
- Affected Roads
- Affected Buildings
- Affected Parcels
- 6.0 ft. Protection**
- Constructed
- Elevation



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Tidal Flood Inundation

City of Isle of Palms, SC

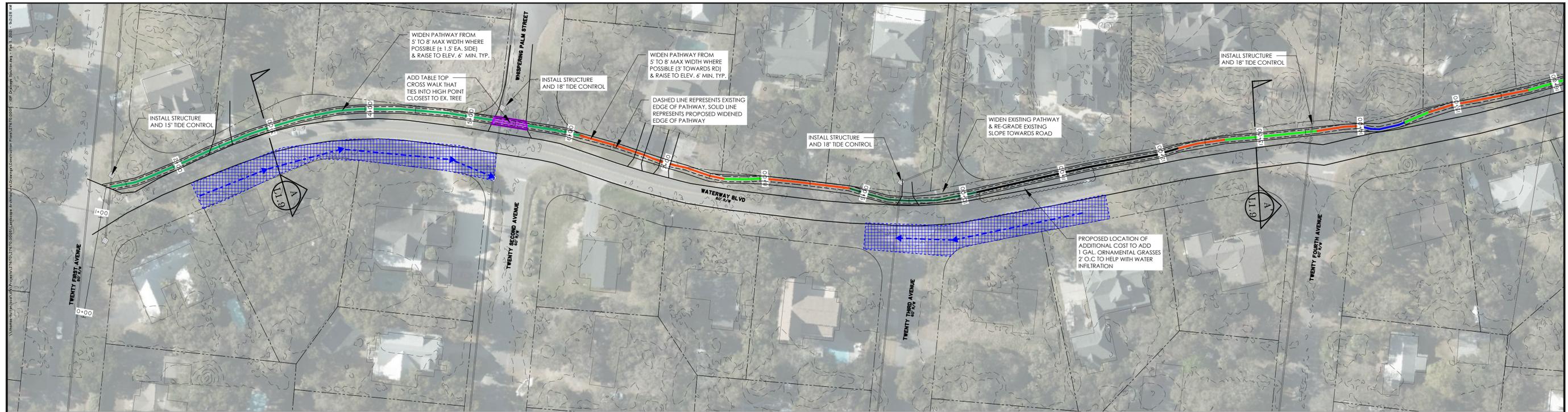
Proposed 6.0 ft. Protection Improvements

Affected Infrastructure

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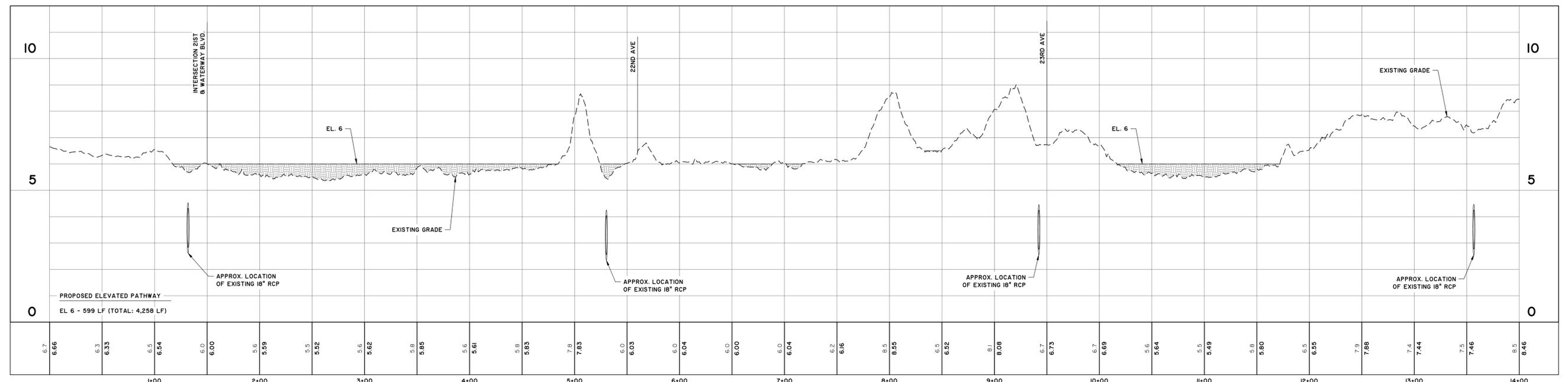
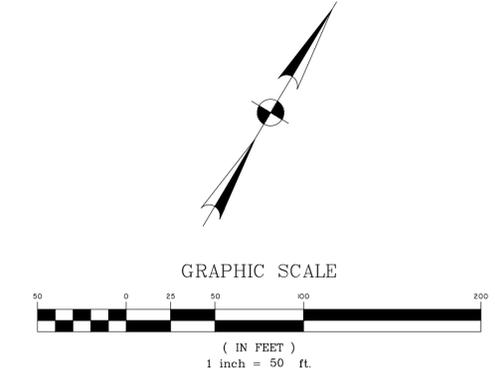
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KEY:

- LOCATION OF TABLE TOP CROSSING
- (TYPICAL TREATMENT 'A') AREA WHERE PATHWAY IS TO BE WIDENED 1.5' ON BOTH SIDES AND RAISED TO ELEV. 6 FT (MIN)
- (TYPICAL TREATMENT 'B') AREA WHERE PATHWAY IS TO BE WIDENED 3' TOWARDS ROAD
- (TYPICAL TREATMENT 'C') AREA WHERE PATHWAY IS TO BE WIDENED 3' TOWARDS PROPERTY AND RAISED TO ELEV. 6 FT (MIN)
- (TYPICAL TREATMENT 'D') AREA WHERE PATHWAY IS TO BE WIDENED 1.5' ON BOTH SIDES AND RAISED TO ELEV. 6 FT (MIN)
- PROPOSED DRAINAGE IMPROVEMENTS



WATERWAY BLVD. PATHWAY
 STATIONS: 0+00 - 14+00
 SCALE: HORIZ.: 1" = 50'
 VERT.: 1" = 2'

PRELIMINARY
NOT FOR
CONSTRUCTION

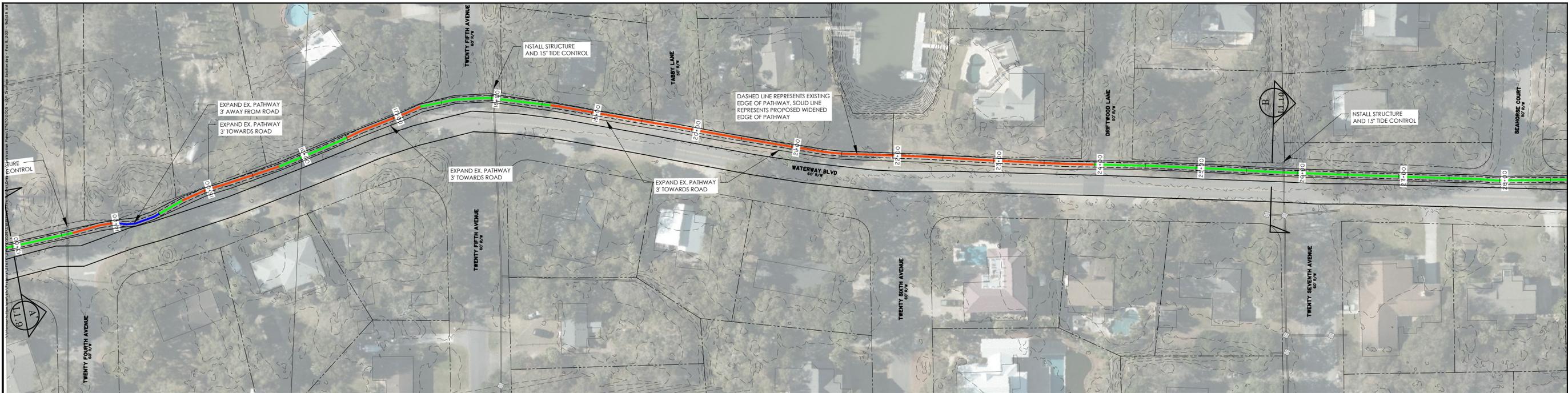
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CITY OF ISLE OF PALMS
 ISLE OF PALMS, CHARLESTON COUNTY, SOUTH CAROLINA
 WATERWAY BLVD PATHWAY
 LANDSCAPE PLAN

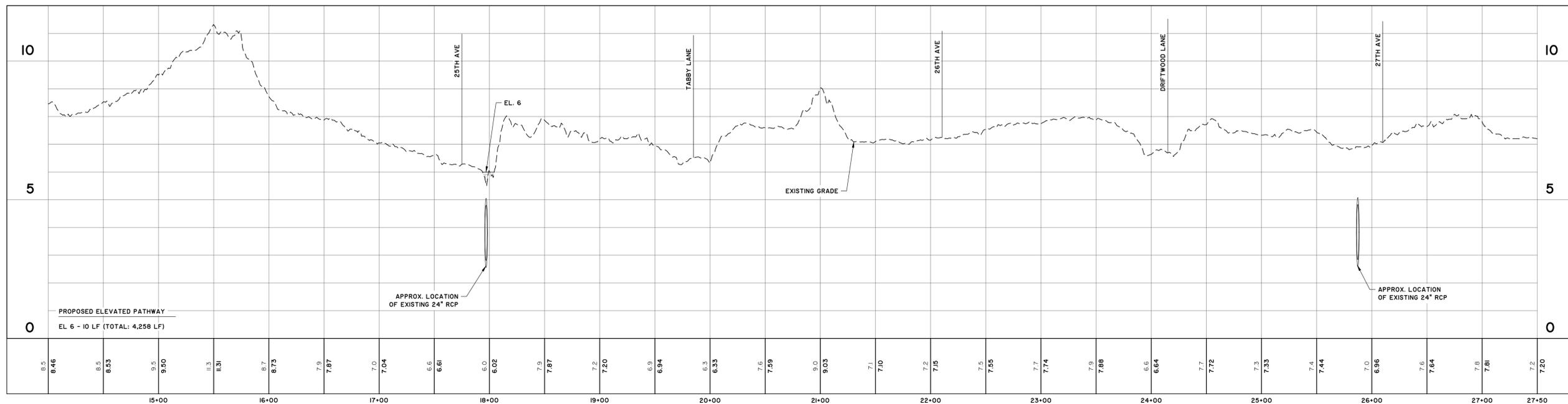
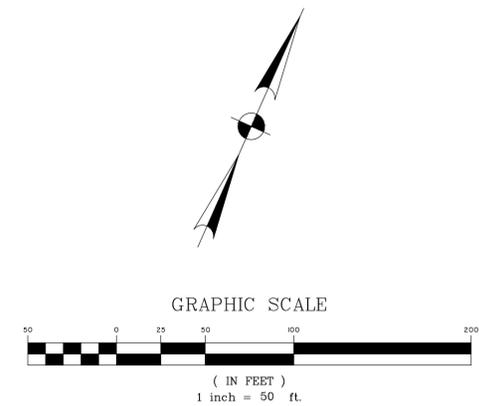
JOB NO:	J- 27670.0009
DATE:	9/21/2020
DRAWN:	HEA
DESIGNED:	HEA
REVIEWED:	RPK
APPROVED:	RPK
SCALE:	AS NOTED

L1.1



KEY:

- LOCATION OF TABLE TOP CROSSING
- (TYPICAL TREATMENT 'A') AREA WHERE PATHWAY IS TO BE WIDENED 1.5' ON BOTH SIDES AND RAISED TO ELEV. 6 FT (MIN)
- (TYPICAL TREATMENT 'B') AREA WHERE PATHWAY IS TO BE WIDENED 3' TOWARDS ROAD
- (TYPICAL TREATMENT 'C') AREA WHERE PATHWAY IS TO BE WIDENED 3' TOWARDS PROPERTY AND RAISED TO ELEV. 6 FT (MIN)
- (TYPICAL TREATMENT 'D') AREA WHERE PATHWAY IS TO BE WIDENED 1.5' ON BOTH SIDES AND RAISED TO ELEV. 6 FT (MIN)
- PROPOSED DRAINAGE IMPROVEMENTS
- (TYPICAL TREATMENT 'A') AREA WHERE PATHWAY IS TO BE WIDENED 1.5' ON BOTH SIDES.



WATERWAY BLVD. PATHWAY
 STATIONS: 14+00 - 27+50
 SCALE: HORZ.: 1" = 50'
 VERT.: 1" = 2'

**PRELIMINARY
NOT FOR
CONSTRUCTION**

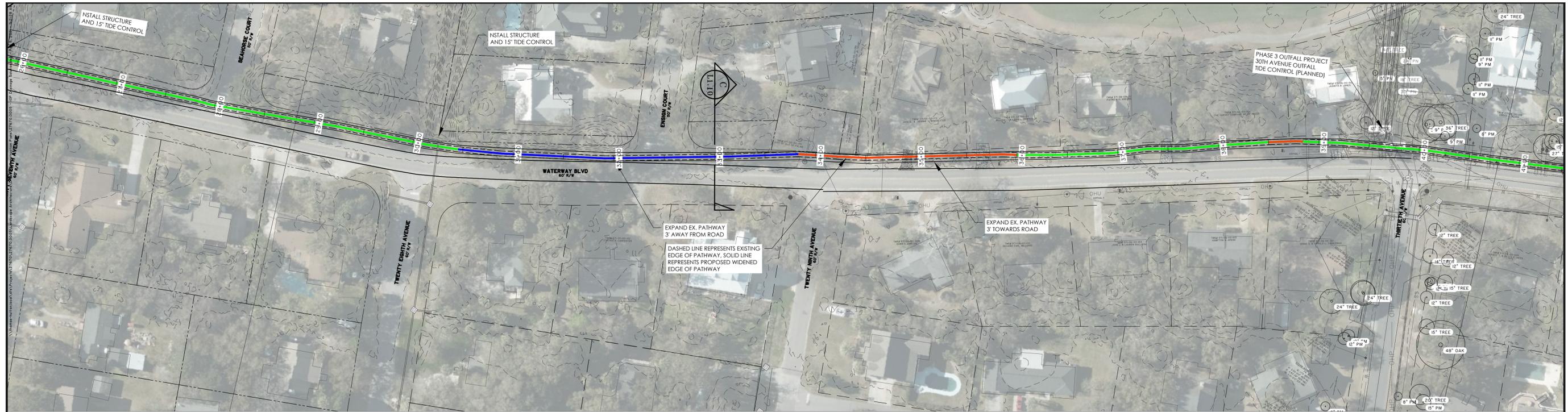
NO.	REVISIONS	BY	DATE

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CITY OF ISLE OF PALMS
 ISLE OF PALMS, CHARLESTON COUNTY, SOUTH CAROLINA
WATERWAY BLVD PATHWAY
LANDSCAPE PLAN

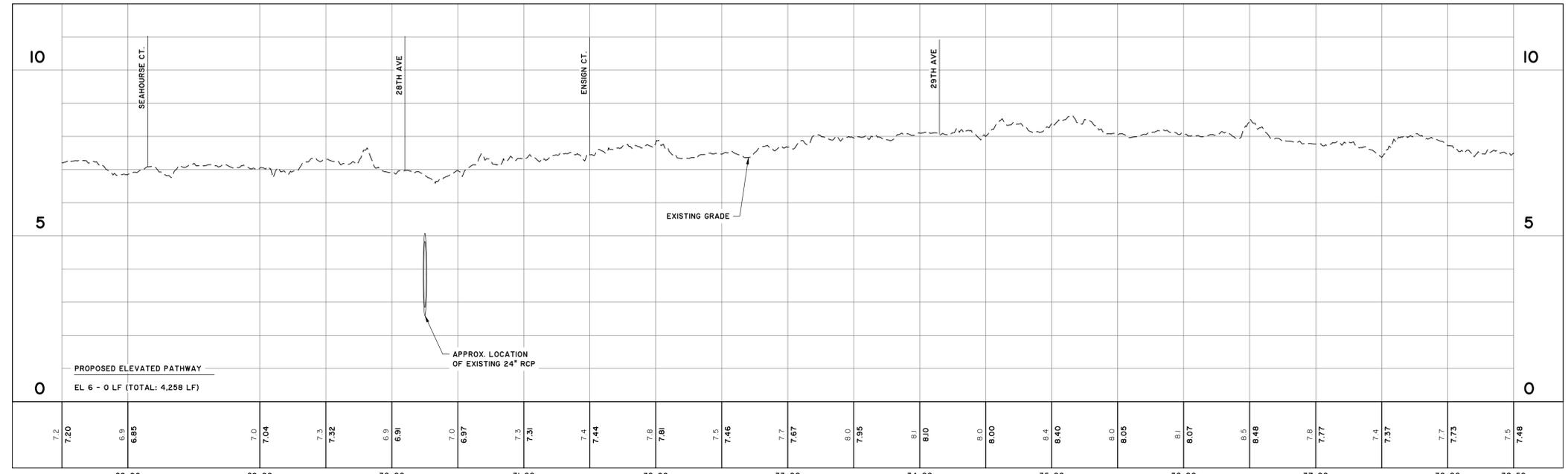
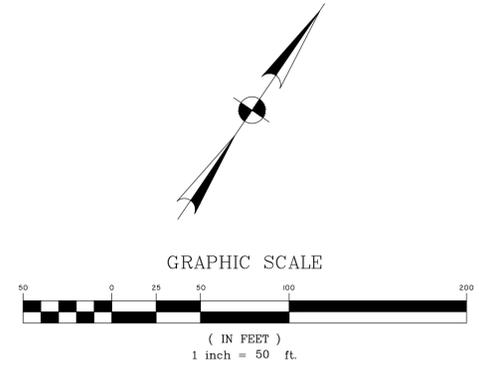
JOB NO: J-27670.0009
DATE: 9/21/2020
DRAWN: HEA
DESIGNED: HEA
REVIEWED: RPK
APPROVED: RPK
SCALE: AS NOTED

L1.2



KEY:

- LOCATION OF TABLE TOP CROSSING
- (TYPICAL TREATMENT 'A') AREA WHERE PATHWAY IS TO BE WIDENED 1.5' ON BOTH SIDES AND RAISED TO ELEV. 6 FT (MIN)
- (TYPICAL TREATMENT 'B') AREA WHERE PATHWAY IS TO BE WIDENED 3' TOWARDS ROAD
- (TYPICAL TREATMENT 'C') AREA WHERE PATHWAY IS TO BE WIDENED 3' TOWARDS PROPERTY AND RAISED TO ELEV. 6 FT (MIN)
- (TYPICAL TREATMENT 'D') AREA WHERE PATHWAY IS TO BE WIDENED 1.5' ON BOTH SIDES AND RAISED TO ELEV. 6 FT (MIN)
- PROPOSED DRAINAGE IMPROVEMENTS
- (TYPICAL TREATMENT 'A') AREA WHERE PATHWAY IS TO BE WIDENED 1.5' ON BOTH SIDES.



WATERWAY BLVD. PATHWAY
 STATIONS: 27+50 - 38+50
 SCALE: HORZ.: 1" = 50'
 VERT.: 1" = 2'

**PRELIMINARY
NOT FOR
CONSTRUCTION**

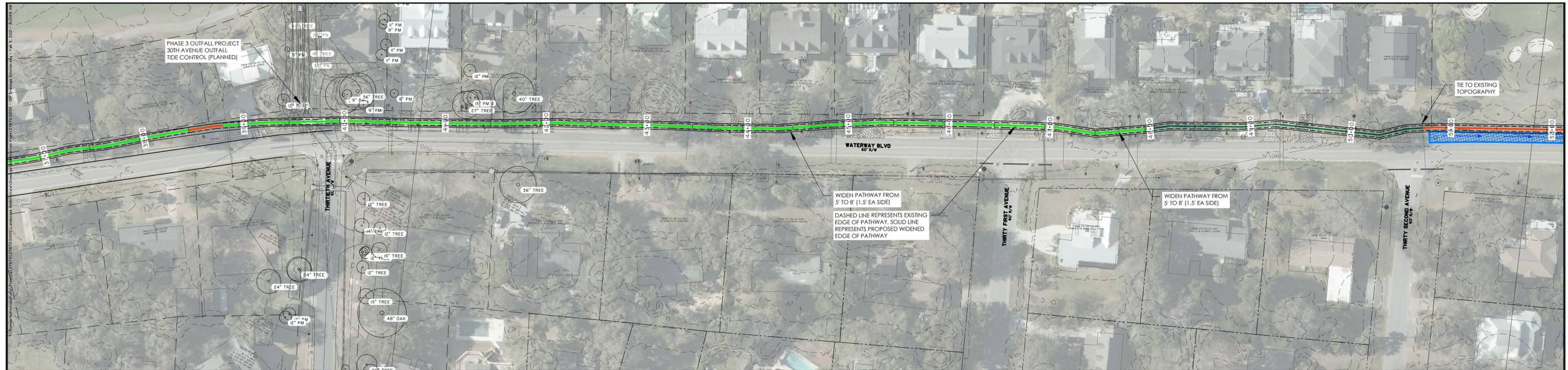
NO.	REVISIONS	BY	DATE

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HUTTON**

CITY OF ISLE OF PALMS
 ISLE OF PALMS, CHARLESTON COUNTY, SOUTH CAROLINA
WATERWAY BLVD PATHWAY
LANDSCAPE PLAN

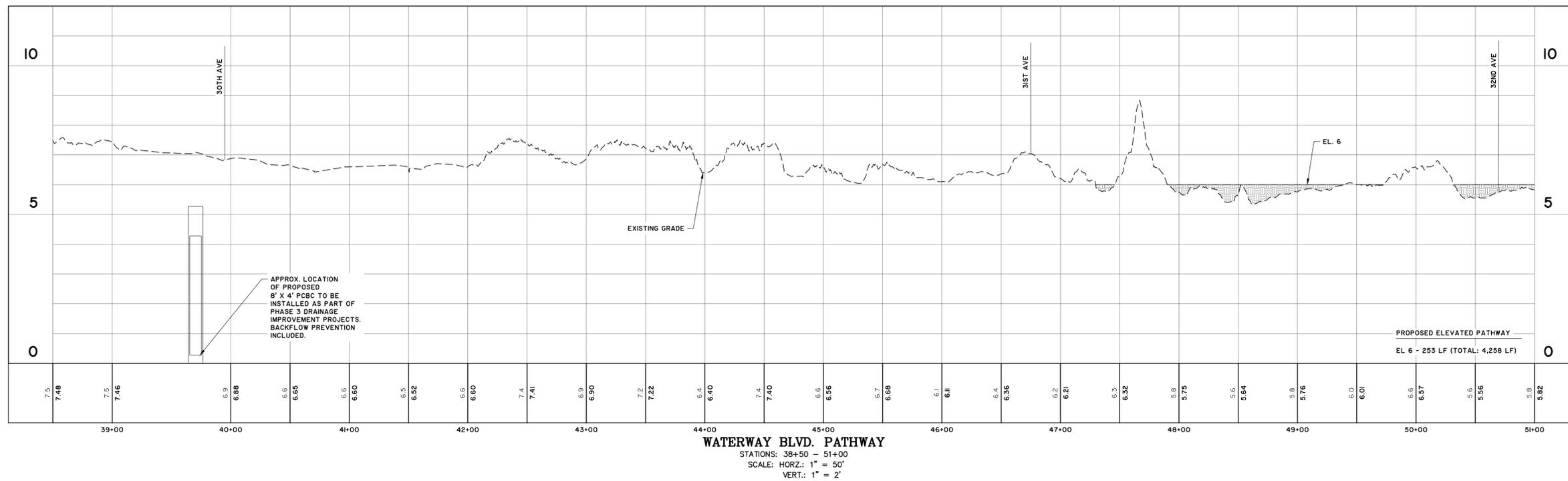
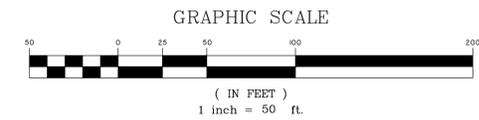
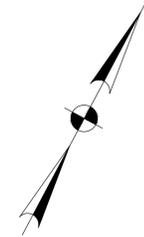
JOB NO: J- 27670.0009
DATE: 9/21/2020
DRAWN: HEA
DESIGNED: HEA
REVIEWED: RPK
APPROVED: RPK
SCALE: AS NOTED

L1.3



KEY:

- LOCATION OF TABLE TOP CROSSING
- (TYPICAL TREATMENT 'A') AREA WHERE PATHWAY IS TO BE WIDENED 1.5' ON BOTH SIDES AND RAISED TO ELEV. 6 FT (MIN)
- (TYPICAL TREATMENT 'B') AREA WHERE PATHWAY IS TO BE WIDENED 3' TOWARDS ROAD
- (TYPICAL TREATMENT 'C') AREA WHERE PATHWAY IS TO BE WIDENED 3' TOWARDS PROPERTY AND RAISED TO ELEV. 6 FT (MIN)
- (TYPICAL TREATMENT 'D') AREA WHERE PATHWAY IS TO BE WIDENED 1.5' ON BOTH SIDES AND RAISED TO ELEV. 6 FT (MIN)
- PROPOSED DRAINAGE IMPROVEMENTS
- (TYPICAL TREATMENT 'A') AREA WHERE PATHWAY IS TO BE WIDENED 1.5' ON BOTH SIDES.



**PRELIMINARY
NOT FOR
CONSTRUCTION**

NO.	REVISIONS	BY	DATE

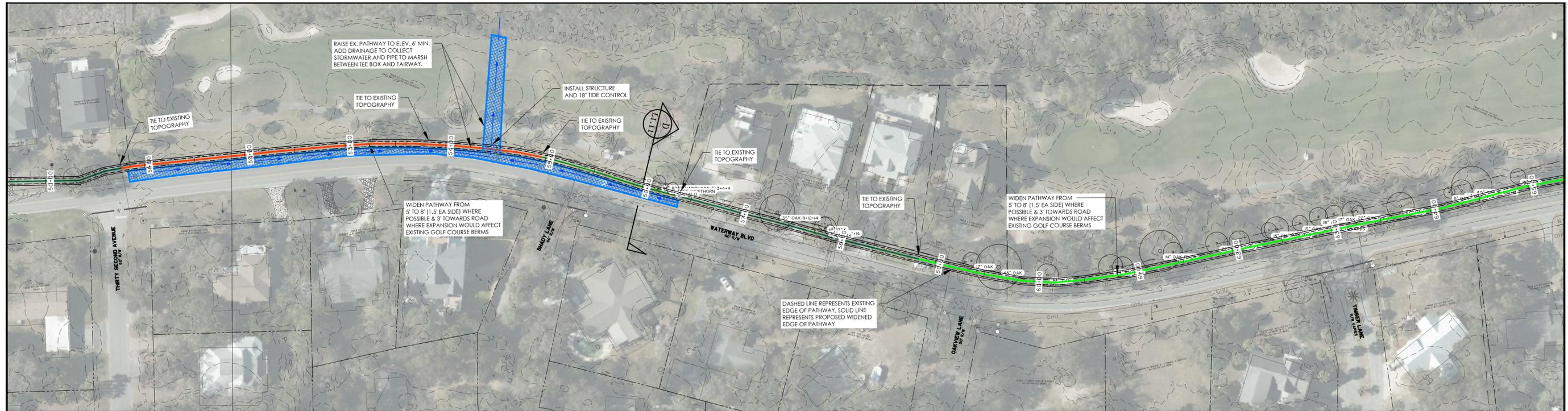


CITY OF ISLE OF PALMS
ISLE OF PALMS, CHARLESTON COUNTY, SOUTH CAROLINA

WATERWAY BLVD PATHWAY
LANDSCAPE PLAN

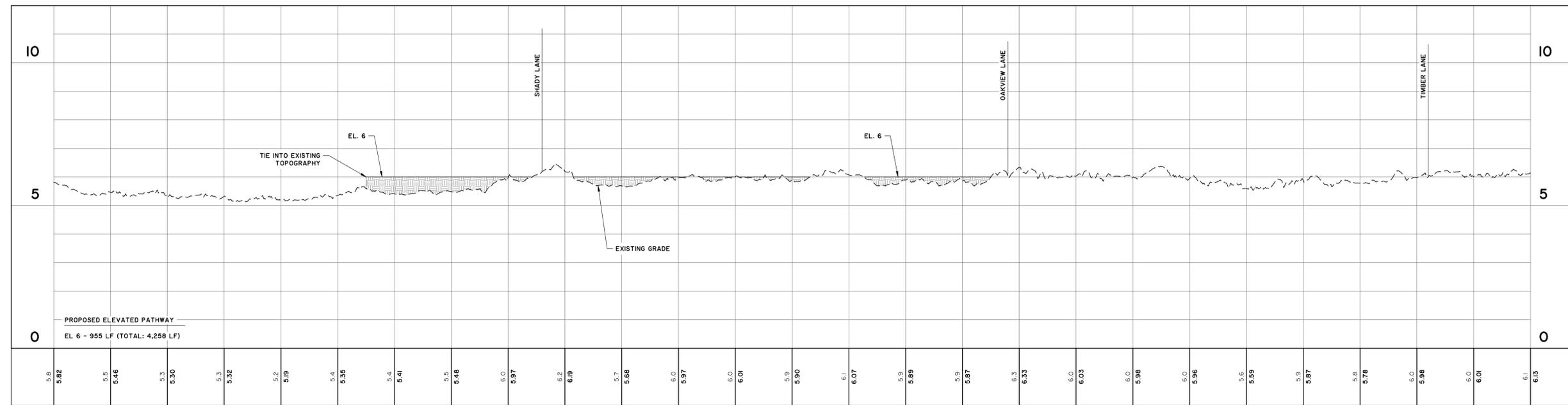
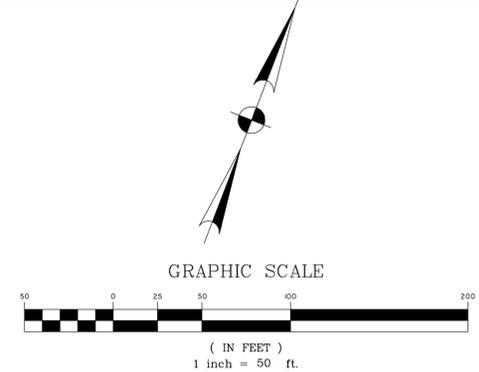
JOB NO: J-27670.0009
DATE: 9/21/2020
DRAWN: HEA
DESIGNED: HEA
REVIEWED: RPK
APPROVED: RPK
SCALE: AS NOTED

L1.4



KEY:

- LOCATION OF TABLE TOP CROSSING
- (TYPICAL TREATMENT 'A') AREA WHERE PATHWAY IS TO BE WIDENED 1.5' ON BOTH SIDES AND RAISED TO ELEV. 6 FT (MIN)
- (TYPICAL TREATMENT 'B') AREA WHERE PATHWAY IS TO BE WIDENED 3' TOWARDS ROAD
- (TYPICAL TREATMENT 'C') AREA WHERE PATHWAY IS TO BE WIDENED 3' TOWARDS PROPERTY AND RAISED TO ELEV. 6 FT (MIN)
- (TYPICAL TREATMENT 'D') AREA WHERE PATHWAY IS TO BE WIDENED 1.5' ON BOTH SIDES AND RAISED TO ELEV. 6 FT (MIN)
- PROPOSED DRAINAGE IMPROVEMENTS
- (TYPICAL TREATMENT 'A') AREA WHERE PATHWAY IS TO BE WIDENED 1.5' ON BOTH SIDES.



WATERWAY BLVD. PATHWAY

STATIONS: 51+00 - 64+00
 SCALE: HORIZ.: 1" = 50'
 VERT.: 1" = 2'

**PRELIMINARY
NOT FOR
CONSTRUCTION**

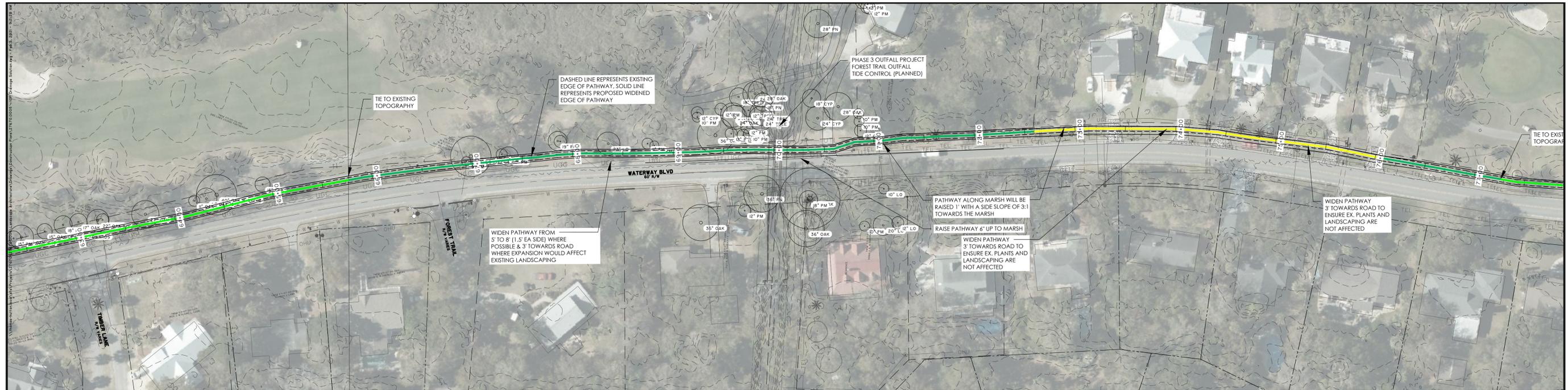
NO.	REVISIONS	BY	DATE

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 ISLE OF PALMS, CHARLESTON COUNTY, SOUTH CAROLINA
WATERWAY BLVD PATHWAY
LANDSCAPE PLAN

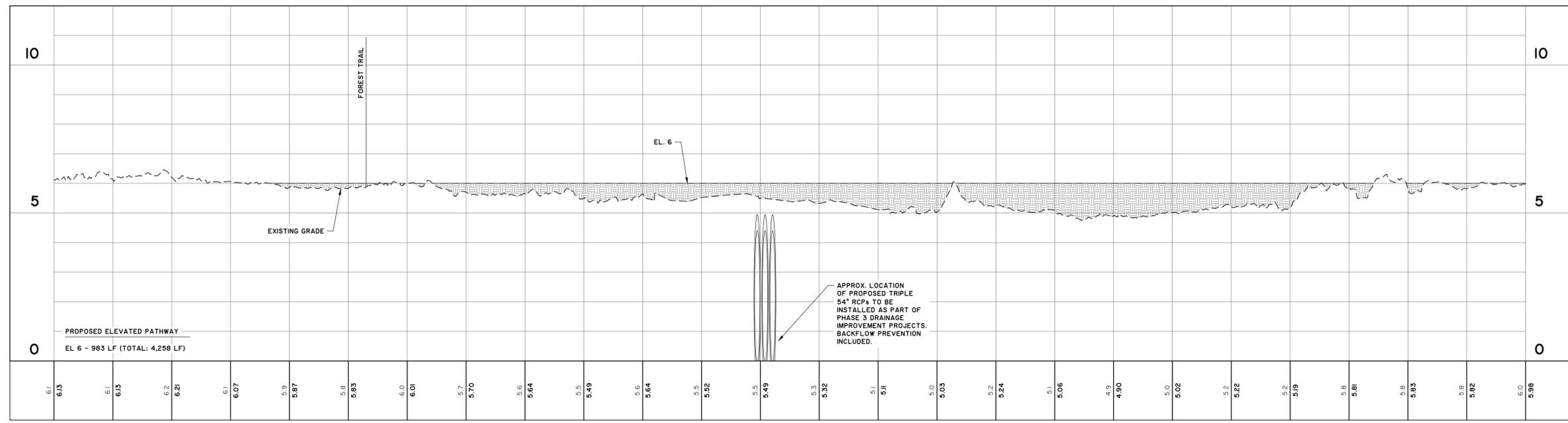
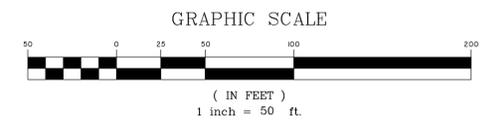
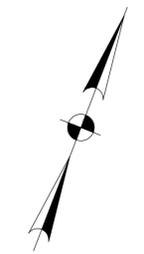
JOB NO:	J-27670.0009
DATE:	9/21/2020
DRAWN:	HEA
DESIGNED:	HEA
REVIEWED:	RPK
APPROVED:	RPK
SCALE:	

L1.5



KEY:

- LOCATION OF TABLE TOP CROSSING
- (TYPICAL TREATMENT 'A') AREA WHERE PATHWAY IS TO BE WIDENED 1.5' ON BOTH SIDES AND RAISED TO ELEV. 6 FT (MIN)
- (TYPICAL TREATMENT 'B') AREA WHERE PATHWAY IS TO BE WIDENED 3' TOWARDS ROAD
- (TYPICAL TREATMENT 'C') AREA WHERE PATHWAY IS TO BE WIDENED 3' TOWARDS PROPERTY AND RAISED TO ELEV. 6 FT (MIN)
- (TYPICAL TREATMENT 'D') AREA WHERE PATHWAY IS TO BE WIDENED 1.5' ON BOTH SIDES AND RAISED TO ELEV. 6 FT (MIN)
- PROPOSED DRAINAGE IMPROVEMENTS
- (TYPICAL TREATMENT 'A') AREA WHERE PATHWAY IS TO BE WIDENED 1.5' ON BOTH SIDES.



WATERWAY BLVD. PATHWAY
 STATIONS: 64+00 - 76+50
 SCALE: HORZ.: 1" = 50'
 VERT.: 1" = 2'

**PRELIMINARY
NOT FOR
CONSTRUCTION**

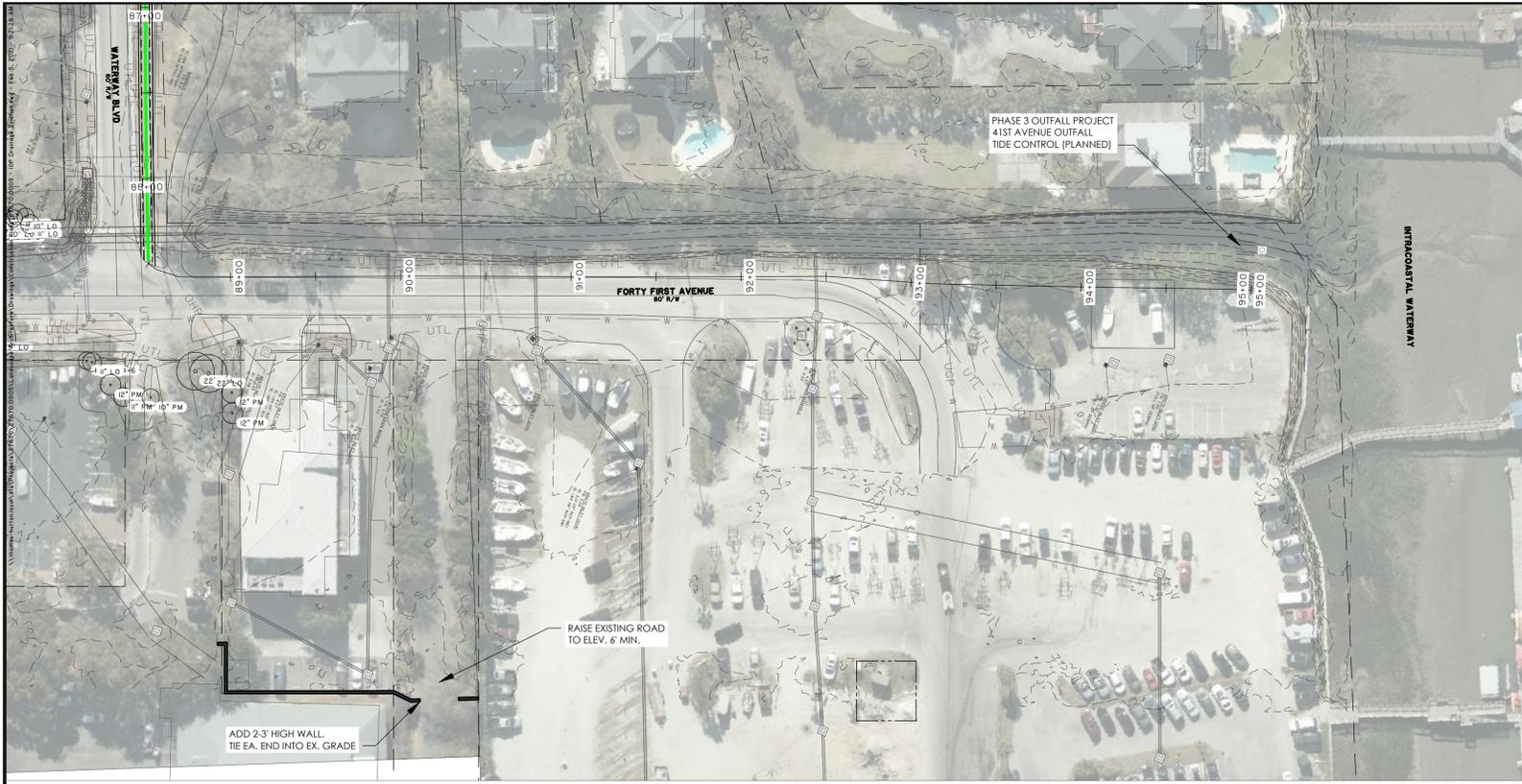
NO.	REVISIONS	BY	DATE



CITY OF ISLE OF PALMS
 ISLE OF PALMS, CHARLESTON COUNTY, SOUTH CAROLINA
WATERWAY BLVD PATHWAY
LANDSCAPE PLAN

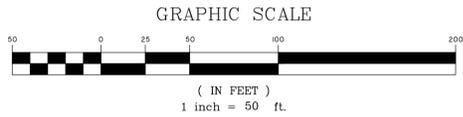
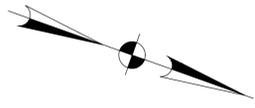
JOB NO: J-27670.0009
DATE: 9/21/2020
DRAWN: HEA
DESIGNED: HEA
REVIEWED: RPK
APPROVED: RPK
SCALE: AS NOTED

L1.6



KEY:

- LOCATION OF TABLE TOP CROSSING
- (TYPICAL TREATMENT 'A') AREA WHERE PATHWAY IS TO BE WIDENED 1.5' ON BOTH SIDES AND RAISED TO ELEV. 6 FT (MIN)
- (TYPICAL TREATMENT 'B') AREA WHERE PATHWAY IS TO BE WIDENED 3' TOWARDS ROAD
- (TYPICAL TREATMENT 'C') AREA WHERE PATHWAY IS TO BE WIDENED 3' TOWARDS PROPERTY AND RAISED TO ELEV. 6 FT (MIN)
- (TYPICAL TREATMENT 'D') AREA WHERE PATHWAY IS TO BE WIDENED 1.5' ON BOTH SIDES AND RAISED TO ELEV. 6 FT (MIN)
- PROPOSED DRAINAGE IMPROVEMENTS



**PRELIMINARY
NOT FOR
CONSTRUCTION**

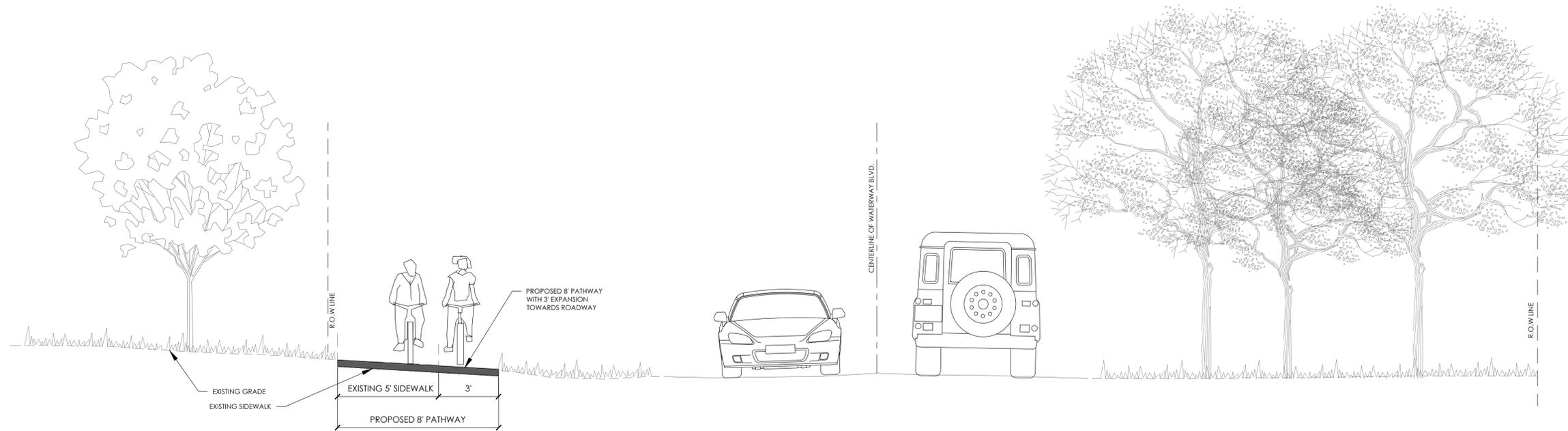
NO.	REVISIONS	BY	DATE



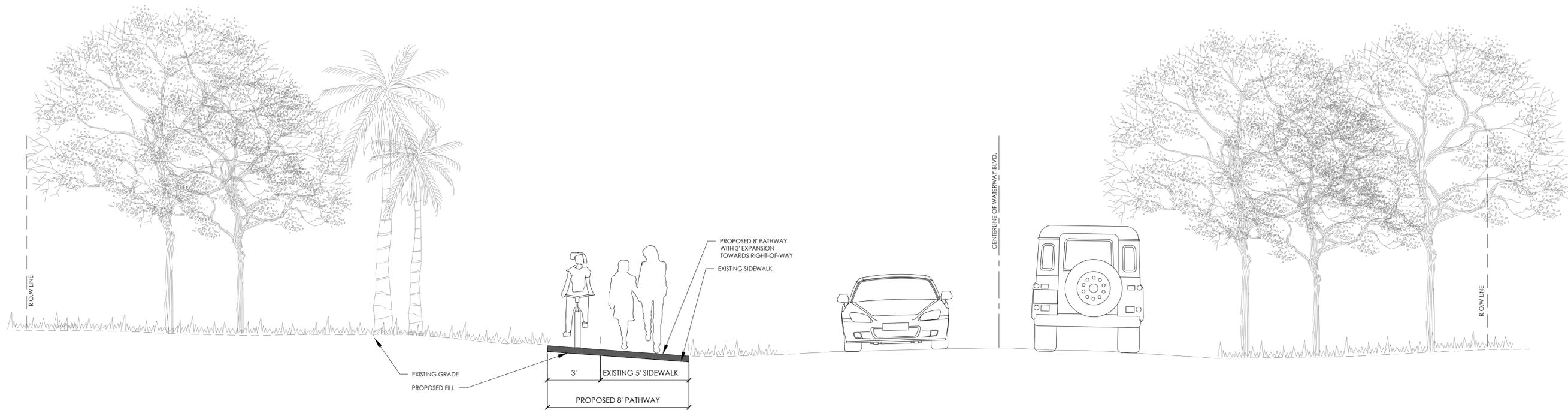
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 ISLE OF PALMS, CHARLESTON COUNTY, SOUTH CAROLINA
WATERWAY BLVD PATHWAY
LANDSCAPE PLAN

JOB NO: J- 27670.0009
 DATE: 9/21/2020
 DRAWN: HEA
 DESIGNED: HEA
 REVIEWED: RPK
 APPROVED: RPK
 SCALE: AS NOTED

L1.8



B TYPICAL TREATMENT 'B' - SECTION CUT AT STATION 25+75
 L1.2 SCALE: 1" = 3'



C TYPICAL TREATMENT 'C' - SECTION CUT AT STATION 33+00
 L1.3 SCALE: 1" = 3'

PRELIMINARY
 NOT FOR
 CONSTRUCTION

NO.	REVISIONS	BY	DATE

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CITY OF ISLE OF PALMS
 ISLE OF PALMS, CHARLESTON COUNTY, SOUTH CAROLINA
WATERWAY BLVD PATHWAY
SECTION ELEVATIONS

JOB NO:	J- 27670.0009
DATE:	9/21/2020
DRAWN:	HEA
DESIGNED:	HEA
REVIEWED:	RPK
APPROVED:	RPK
SCALE:	AS NOTED

L1.10

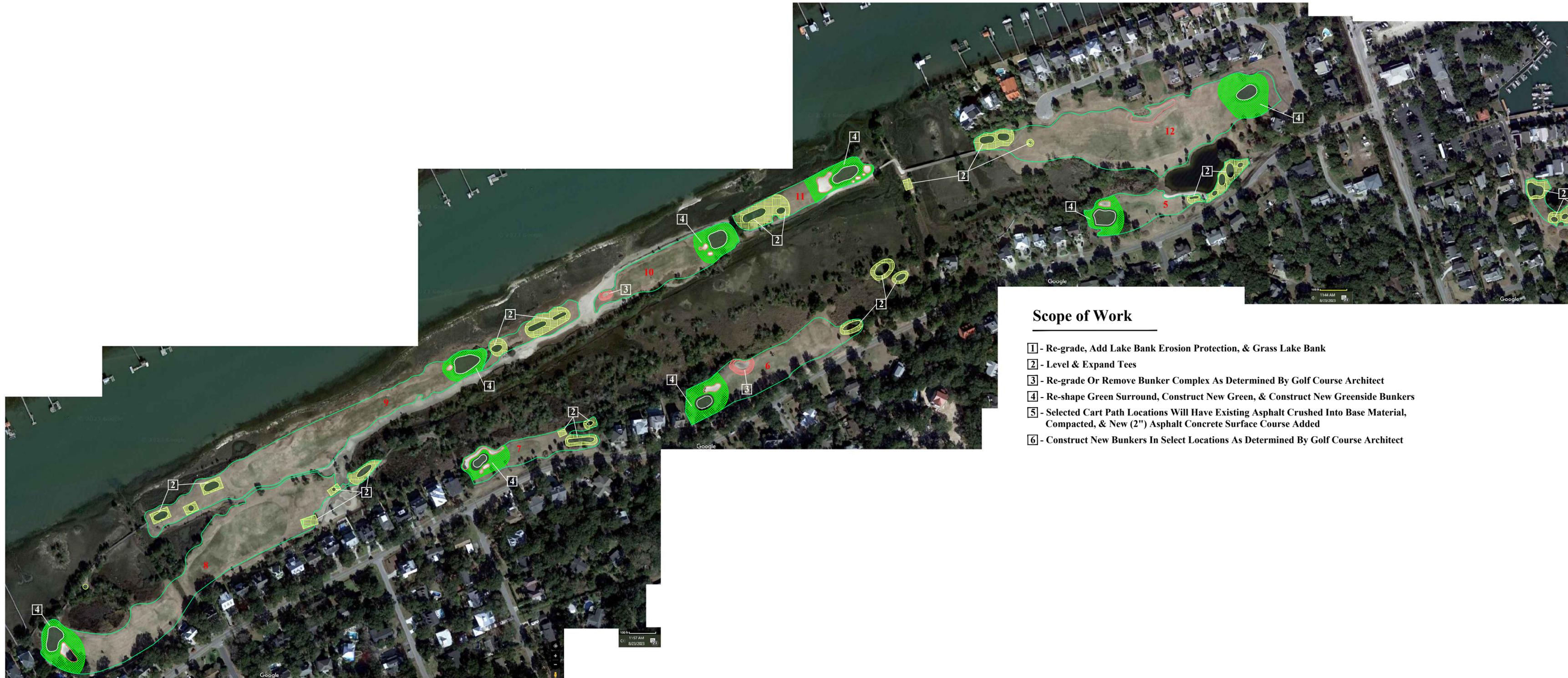
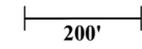


December 17, 2023
6.72 ft. (NAVD88) Tide

HARBOR COURSE AT WILD DUNES

Golf Course Refresh

November 30, 2023



Scope of Work

- 1 - Re-grade, Add Lake Bank Erosion Protection, & Grass Lake Bank
- 2 - Level & Expand Tees
- 3 - Re-grade Or Remove Bunker Complex As Determined By Golf Course Architect
- 4 - Re-shape Green Surround, Construct New Green, & Construct New Greenside Bunkers
- 5 - Selected Cart Path Locations Will Have Existing Asphalt Crushed Into Base Material, Compacted, & New (2") Asphalt Concrete Surface Course Added
- 6 - Construct New Bunkers In Select Locations As Determined By Golf Course Architect



→ Pipes
 Proposed Drainage
 7.0 Protection
 Constructed

0 15 30 60 90 120 150 Feet

1 inch = 30 feet

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Waterway Boulevard Pathway

City of Isle of Palm, SC

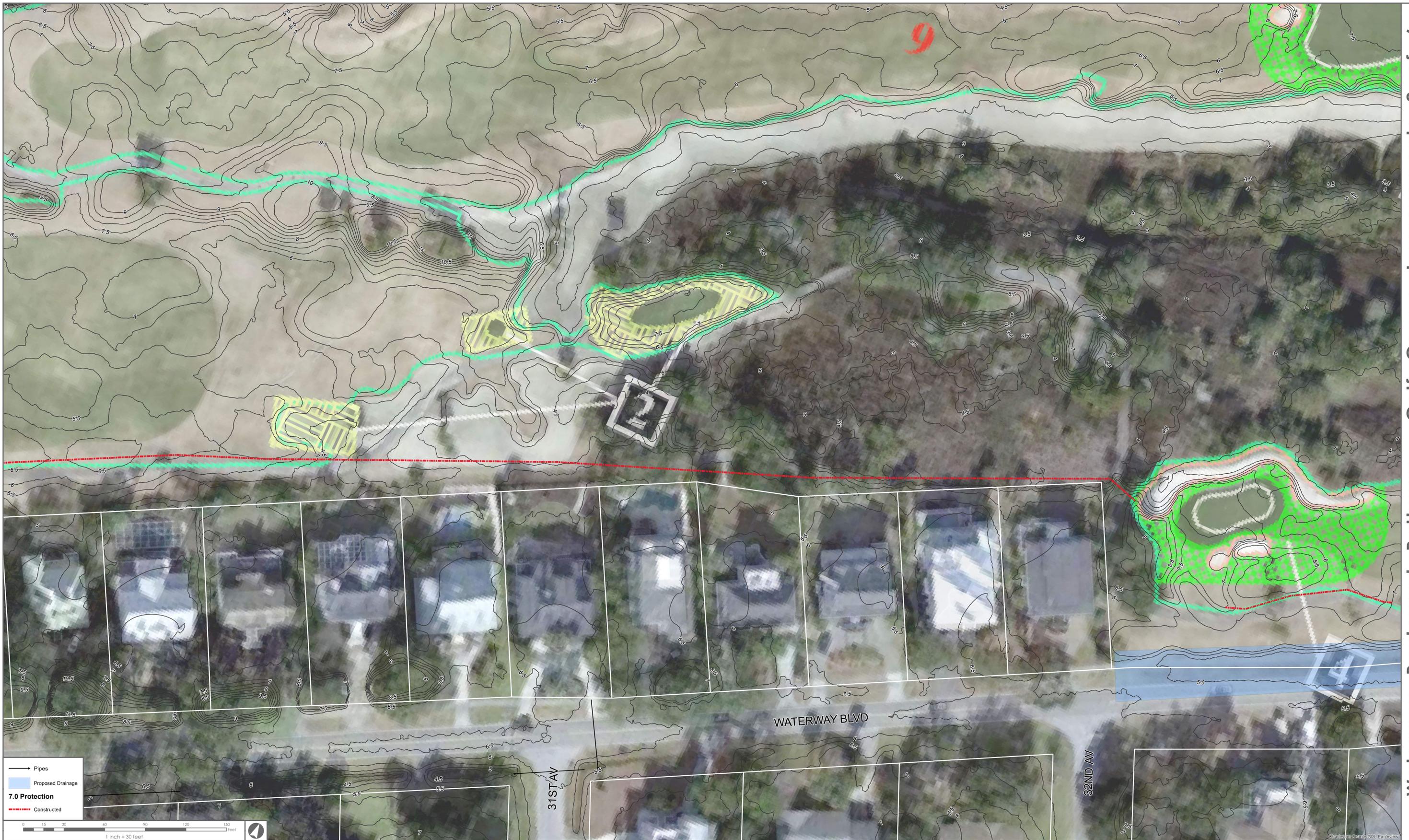
Golf Course Improvements

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→ Pipes
 Proposed Drainage
7.0 Protection
 Constructed

0 15 30 60 90 120 150 Feet

1 inch = 30 feet

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Waterway Boulevard Pathway

City of Isle of Palm, SC

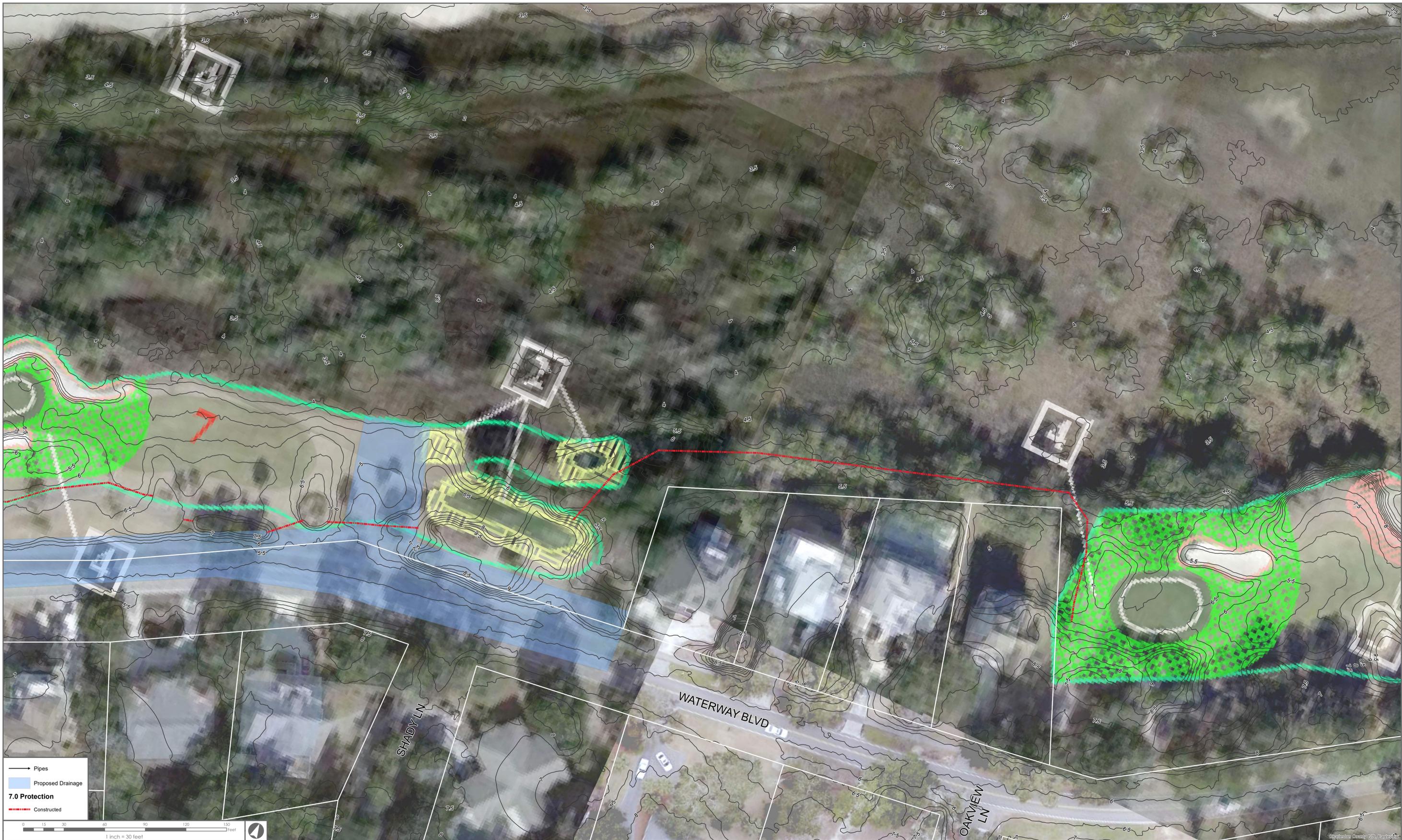
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→ Pipes
 Proposed Drainage
7.0 Protection
 - - - - - Constructed

0 15 30 60 90 120 150 Feet
 1 inch = 30 feet

Job Number:	Produced:	Produced By:	Modified:	Modified By:
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Waterway Boulevard Pathway

City of Isle of Palm, SC

Golf Course Improvements

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→ Pipes
 Proposed Drainage
7.0 Protection
 Constructed

0 15 30 60 90 120 150 Feet

1 inch = 30 feet

Job Number:	Produced:	Produced By:	Modified:	Modified By:
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Waterway Boulevard Pathway

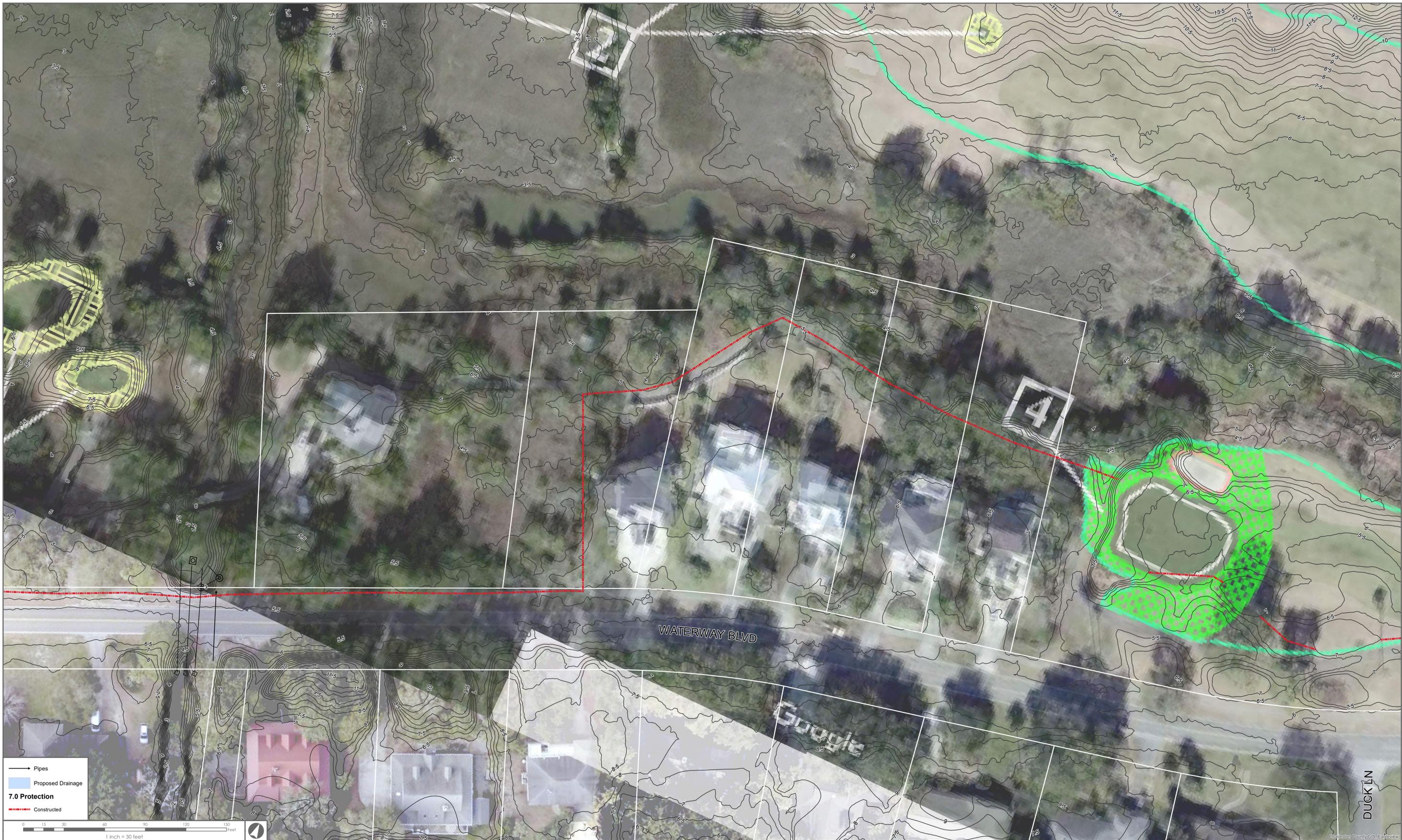
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Golf Course Improvements

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→ Pipes
 Proposed Drainage
7.0 Protection
 - - - - - Constructed

0 15 30 60 90 120 150 Feet
 1 inch = 30 feet

Job Number:	Produced:	Produced By:	Modified:	Modified By:
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Waterway Boulevard Pathway

City of Isle of Palm, SC

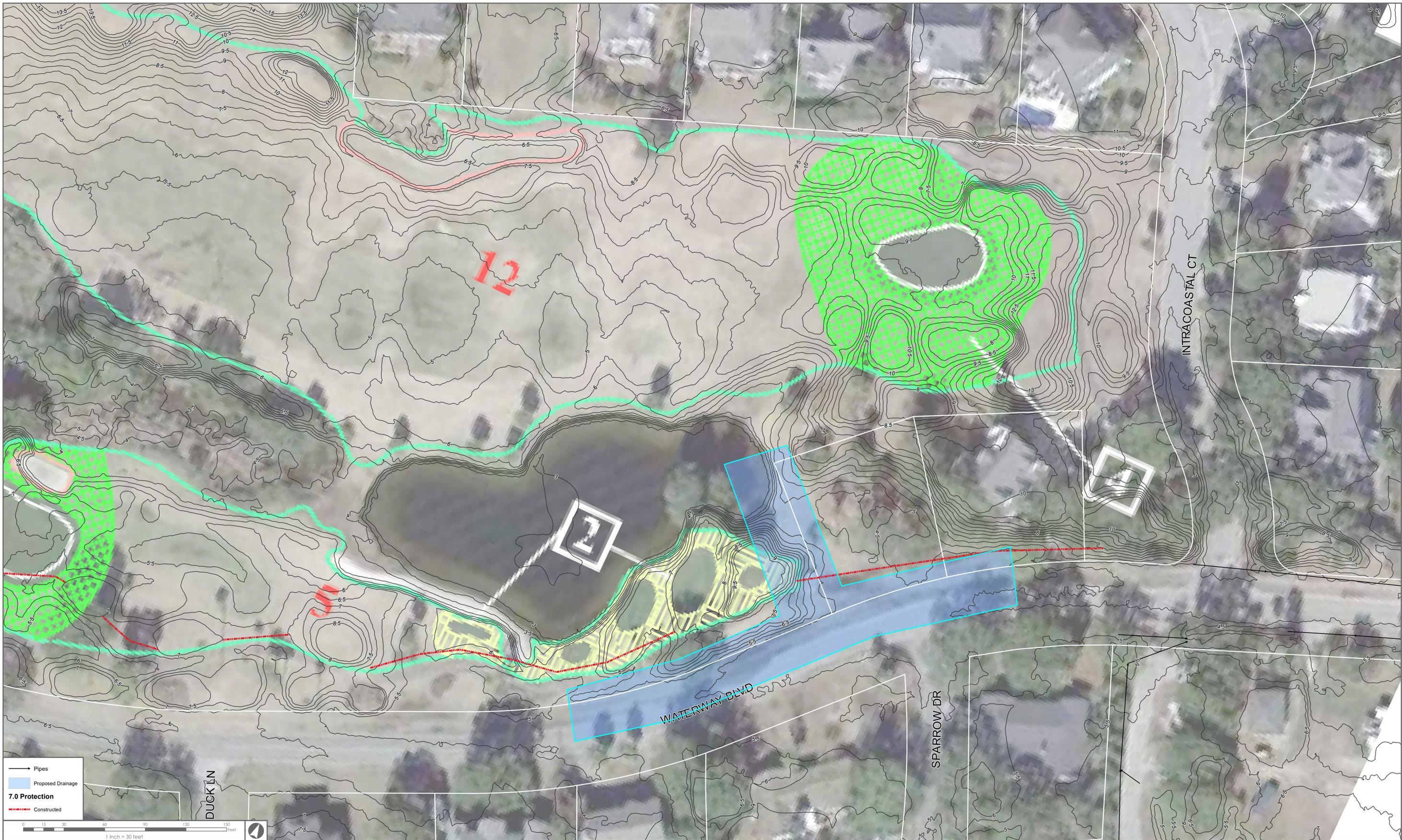
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→ Pipes
 Proposed Drainage
7.0 Protection
 - - - - - Constructed

0 15 30 60 90 120 150
 Feet
 1 inch = 30 feet

Job Number:	Produced:	Produced By:	Modified:	Modified By:
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City of Isle of Palm, SC

Golf Course Improvements

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