Project Recommendations

DRAFT

Notes:

1. Background 2020 aerial imagery collected by Kucera International. Imagery is managed by Adam DeMars, South Carolina State GIS Coordinator and hosted by ESRI.
2. Drainage infrastructure locations are approximate. Final placement of proposed infrastructure will occur during design. Inlet placement was not considered in this study.
3. If additional collection systems are deemed necessary to provide drainage infrastructure for the project area then the system's inverts will need to be adjusted to provide standard cover for stormwater pipes.
4. Pump station to discharge directly to tidal marsh at end of Station 10. No force main required.
5. Pump station currently proposed as a triplex pump station consisting of two high flow rate pumps and one jockey pump for smaller storm events.
6. Road centerline is proposed to be elevated to 6 ft NAVD88. Proper grading within right-of-way will be required to ensure runoff is routed to proposed infrastructure.

Document Path: P:\ACAD-D-3\10239\GIS\ArcPro\10239 - Cost Estimates and Project Exhibits\10239 - Cost Estimates and Project Exhibits.aprx

Map labels:
24" RCP, 24" RCP, 30" RCP, 36" RCP, OSCEOLA AVE, 18" RCP, 24" RCP, 30" RCP, 24" RCP, 24" RCP, 18" RCP, 24" RCP, 18" RCP, 24" RCP, MIDDLE ST, 24" RCP, 24" RCP, 18" RCP, 24" RCP, 24" RCP, 24" RCP, 18" RCP, STATION 10 ST, STATION 12 ST

Legend

- ◆ Proposed Pump Station
- ‑ ‑ Existing Stormwater Infrastructure
- —— Proposed Improvements
- —— Proposed Improvements (Other Project Areas)
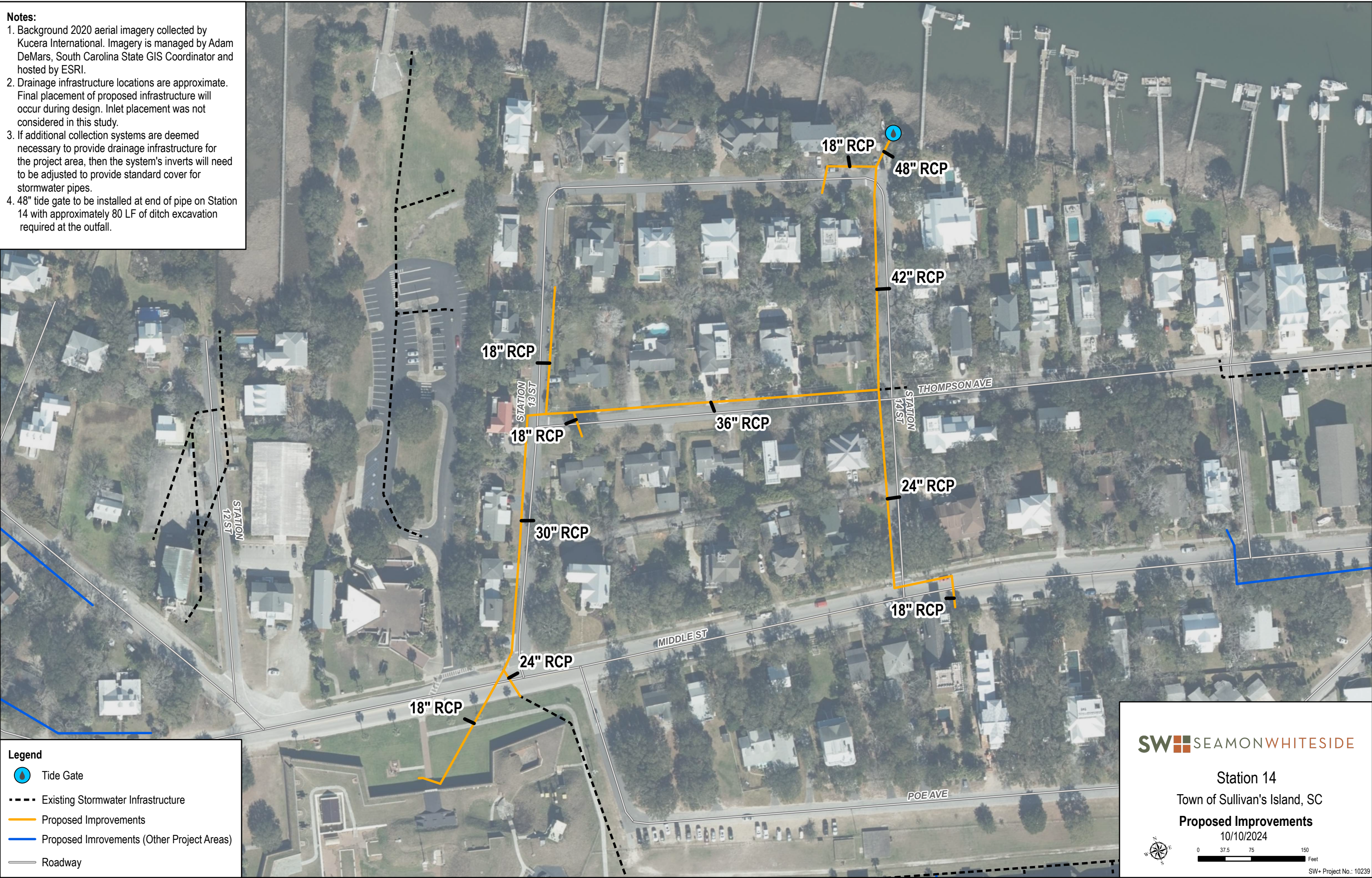- ▬ Raise Road
- —— Roadway

SW | SEAMONWHITESIDE

Osceola Avenue
Town of Sullivan's Island, SC
Proposed Improvements
10/10/2024
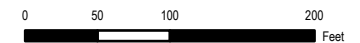
0 50 100 200
Feet

SW+ Project No.: 10239

Notes:

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2. Drainage infrastructure locations are approximate. Final placement of proposed infrastructure will occur during design. Inlet placement was not considered in this study.
3. If additional collection systems are deemed necessary to provide drainage infrastructure for the project area, then the system's inverts will need to be adjusted to provide standard cover for stormwater pipes.
4. 48" tide gate to be installed at end of pipe on Station 14 with approximately 80 LF of ditch excavation required at the outfall.

18" RCP
48" RCP
42" RCP
18" RCP
18" RCP
36" RCP
24" RCP
30" RCP
18" RCP
24" RCP
18" RCP

THOMPSON AVE
STATION 13 ST
STATION 14 ST
STATION 12 ST
MIDDLE ST
POE AVE

Legend

	Tide Gate
– – –	Existing Stormwater Infrastructure
▬▬▬	Proposed Improvements
▬▬▬	Proposed Imrovements (Other Project Areas)
▬▬▬	Roadway

SW seamonwhiteside

Station 14

Town of Sullivan's Island, SC

Proposed Improvements

10/10/2024

0   37.5   75   150
Feet

SW+ Project No.: 10239

Document Path: P:\ACAD-D-3\10239\GIS\ArcPro\10239 - Cost Estimates and Project Exhibits\10239 - Cost Estimates and Project Exhibits.aprx

Notes:
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3. If additional collection systems are deemed necessary to provide drainage infrastructure for the project area then the system's inverts will need to be adjusted to provide standard cover for stormwater pipes.
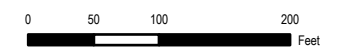
THOMPSON AVE

12" RCP

18" RCP

24" RCP

MIDDLE ST

24" RCP

18" RCP

18" RCP

STATION 17 ST

STATION 16 ST

24" RCP

STATION 16 1/2 ST

24" RCP

18" RCP

POE AVE

24" RCP

18" RCP

18" RCP

18" RCP

ATLANTIC AVE

Legend

⬤ Tide Gate

- - - Existing Stormwater Infrastructure

—— Proposed Improvements

—— Proposed Improvements (Other Project Areas)

—— Roadway

SW ▪ SEAMON WHITESIDE

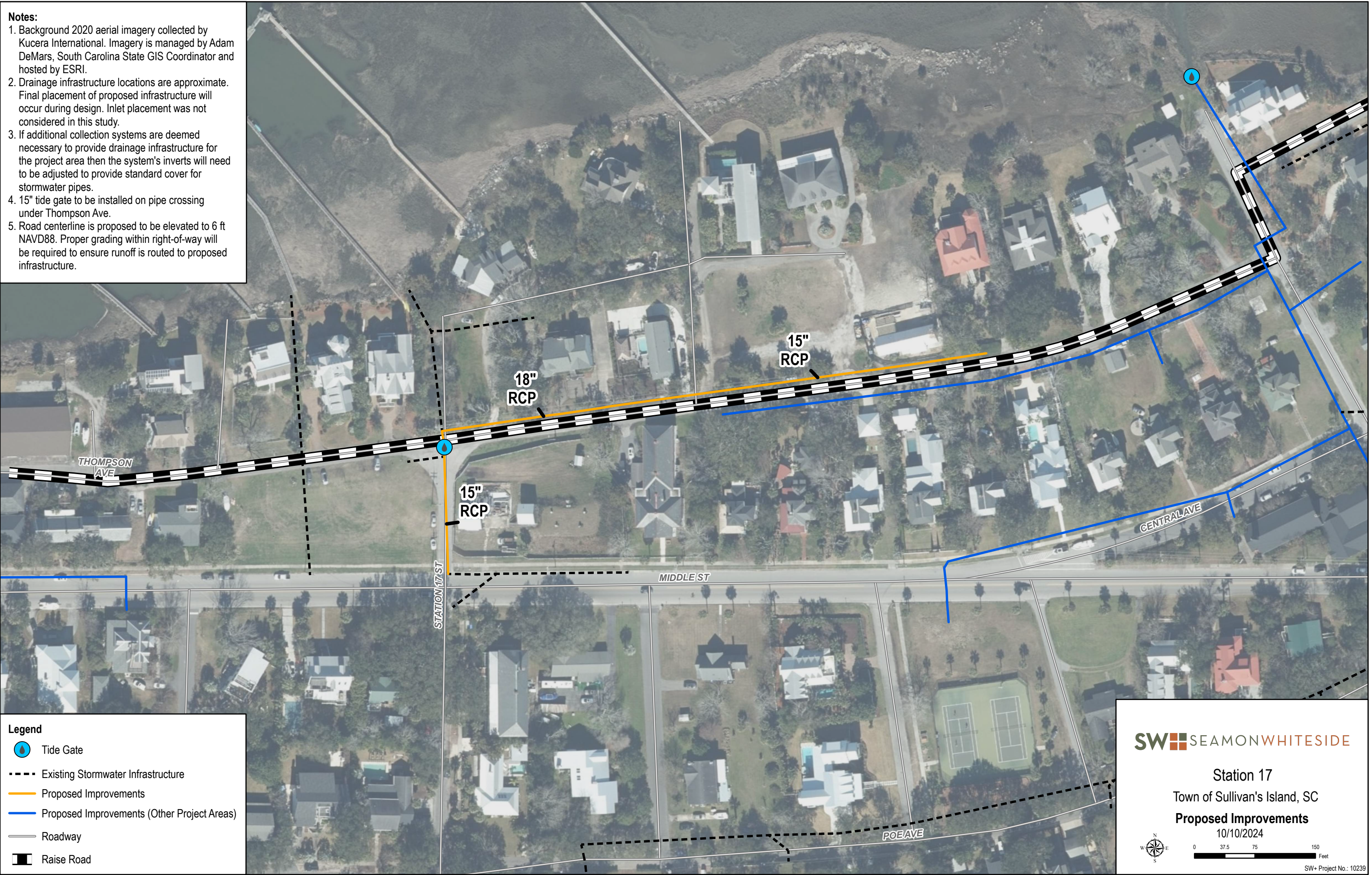**Station 16 Extension**

Town of Sullivan's Island, SC

Proposed Improvements

10/10/2024

0 50 100 200 Feet

SW+ Project No.: 10239

Document Path: P:\ACAD-D-3\10239\GIS\ArcPro\10239 - Cost Estimates and Project Exhibits\10239 - Cost Estimates and Project Exhibits.aprx

Notes:

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2. Drainage infrastructure locations are approximate. Final placement of proposed infrastructure will occur during design. Inlet placement was not considered in this study.
3. If additional collection systems are deemed necessary to provide drainage infrastructure for the project area then the system's inverts will need to be adjusted to provide standard cover for stormwater pipes.
4. 15" tide gate to be installed on pipe crossing under Thompson Ave.
5. Road centerline is proposed to be elevated to 6 ft NAVD88. Proper grading within right-of-way will be required to ensure runoff is routed to proposed infrastructure.

THOMPSON AVE.

STATION 17 ST

MIDDLE ST

CENTRAL AVE

POE AVE

15" RCP

18" RCP

15" RCP

Legend

- ⬤ Tide Gate
- ▪▪▪ Existing Stormwater Infrastructure
- ▬ Proposed Improvements
- ▬ Proposed Improvements (Other Project Areas)
- — Roadway
- ▬ Raise Road

Document Path: P:\ACAD-D-3\10239\GIS\ArcPro\10239 - Cost Estimates and Project Exhibits\10239 - Cost Estimates and Project Exhibits.aprx

SW+ Project No.: 10239

SW ■ SEAMONWHITESIDE

Station 17
Town of Sullivan's Island, SC

Proposed Improvements
10/10/2024

0   37.5   75   150
Feet

SW+ Project No.: 10239

Notes:

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2. Drainage infrastructure locations are approximate. Final placement of proposed infrastructure will occur during design. Inlet placement was not considered in this study.
3. If additional collection systems are deemed necessary to provide drainage infrastructure for the project area then the system's inverts will need to be adjusted to provide standard cover for stormwater pipes.
4. 42" tide gate to be installed at end of Station 18. Existing outfall conditions do no require additional channel dredging.
5. Road centerline is proposed to be elevated to 6 ft NAVD88. Proper grading within right-of-way will be required to ensure runoff is routed to proposed infrastructure.
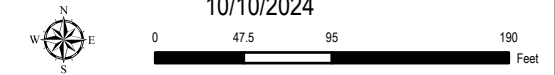
Legend

- 💧 Tide Gate
- ▪▪▪ Existing Stormwater Infrastructure
- ─── Proposed Improvements
- ─── Proposed Improvements (Other Project Areas)
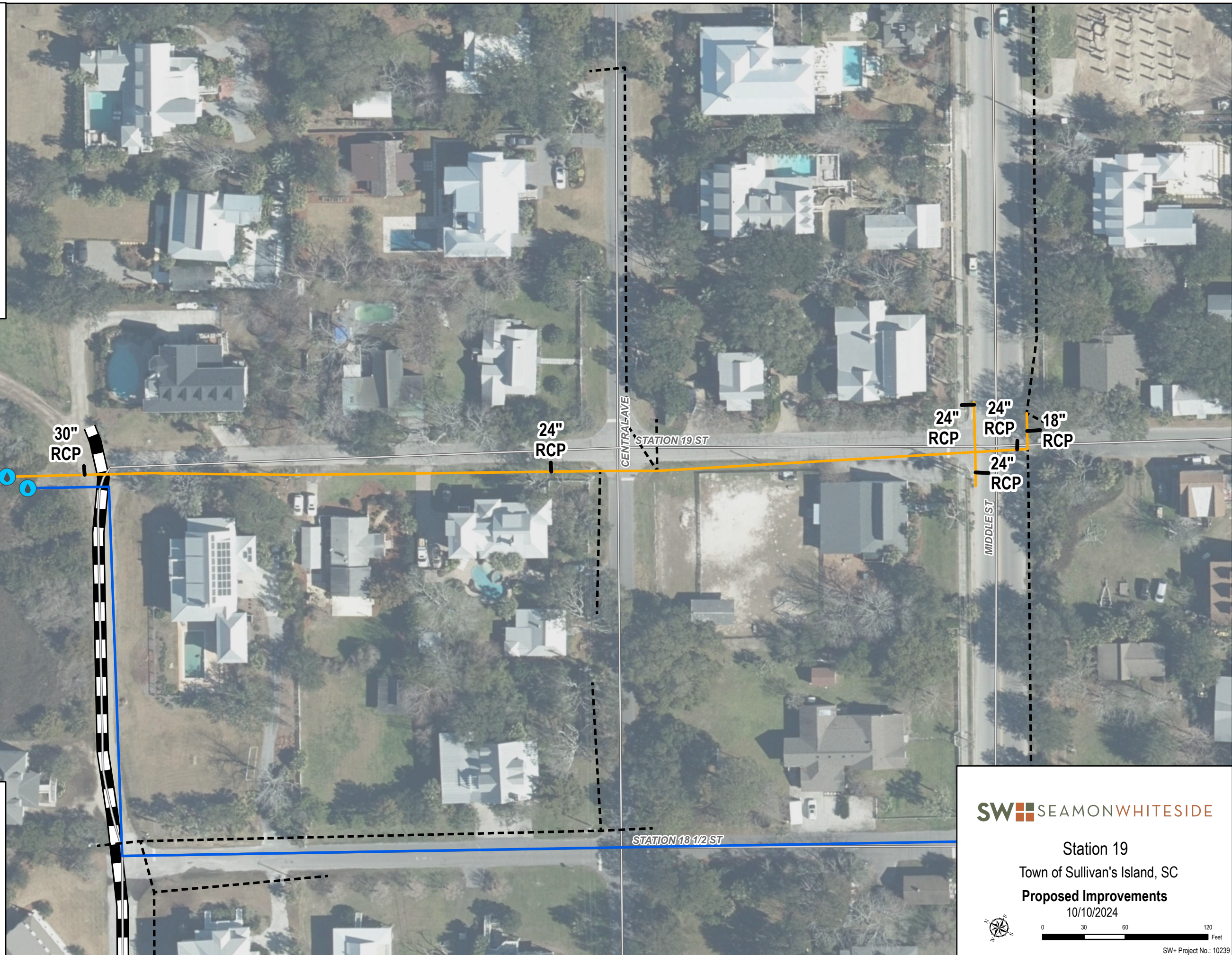- ─── Roadway
- ▮▮ Raise Road

Map labels (RCP pipe sizes): 42" RCP, 36" RCP, 18" RCP, 18" RCP, 36" RCP, 18" RCP, 15" RCP, 18" RCP, 36" RCP, 18" RCP, 24" RCP, 36" RCP, 24" RCP, 18" RCP, 18" RCP, 15" RCP, 36" RCP

Street labels: BACK ST, THOMPSON AVE, CENTRAL AVE, STATION 18 1/2 ST, STATION 18 ST, MIDDLE ST, POE AVE

SW ██ SEAMONWHITESIDE

Station 18
Town of Sullivan's Island, SC
Proposed Improvements
10/10/2024

0   47.5   95   190
Feet

SW+ Project No.: 10239

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Notes:
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2. Drainage infrastructure locations are approximate. Final placement of proposed infrastructure will occur during design. Inlet placement was not considered in this study.
3. If additional collection systems are deemed necessary to provide drainage infrastructure for the project area then the system's inverts will need to be adjusted to provide standard cover for stormwater pipes.
4. 30" tide gate to be installed at end of pipe on Station 19 with approximately 205 LF of excavation required at the outfall ditch.
5. Road centerline is proposed to be elevated to 6 ft NAVD88. Proper grading within right-of-way will be required to ensure runoff is routed to proposed infrastructure.
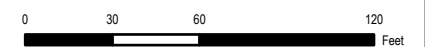
Legend

- 💧 Tide Gate
- - - - Existing Stormwater Infrastructure
- ──── Proposed Improvements
- ──── Proposed Improvements (Other Project Areas)
- ──── Roadway
- ▬▬ Raise Road

30" RCP
24" RCP
24" RCP
24" RCP
18" RCP
24" RCP

CENTRAL AVE
STATION 19 ST
MIDDLE ST
STATION 18 1/2 ST

SW SEAMONWHITESIDE

Station 19
Town of Sullivan's Island, SC

Proposed Improvements
10/10/2024

0 30 60 120
Feet

SW+ Project No.: 10239

Document Path: P:\ACAD-D-3\10239\GIS\ArcPro\10239 - Cost Estimates and Project Exhibits\10239 - Cost Estimates and Project Exhibits.aprx

48" RCP

42" RCP

24" RCP

42" RCP

30" RCP

24" RCP

18" RCP

36" RCP

30" RCP

18" RCP

18" RCP

30" RCP

24" RCP

MYRTLE AVE

JASPER BLVD

CENTRAL AVE

MIDDLE ST

ION AVE

STATION 20 ST

STATION 22 ST

STATION 22 1/2 ST

Legend

Tide Gate

- - - Existing Stormwater Infrastructure

—— Proposed Improvements
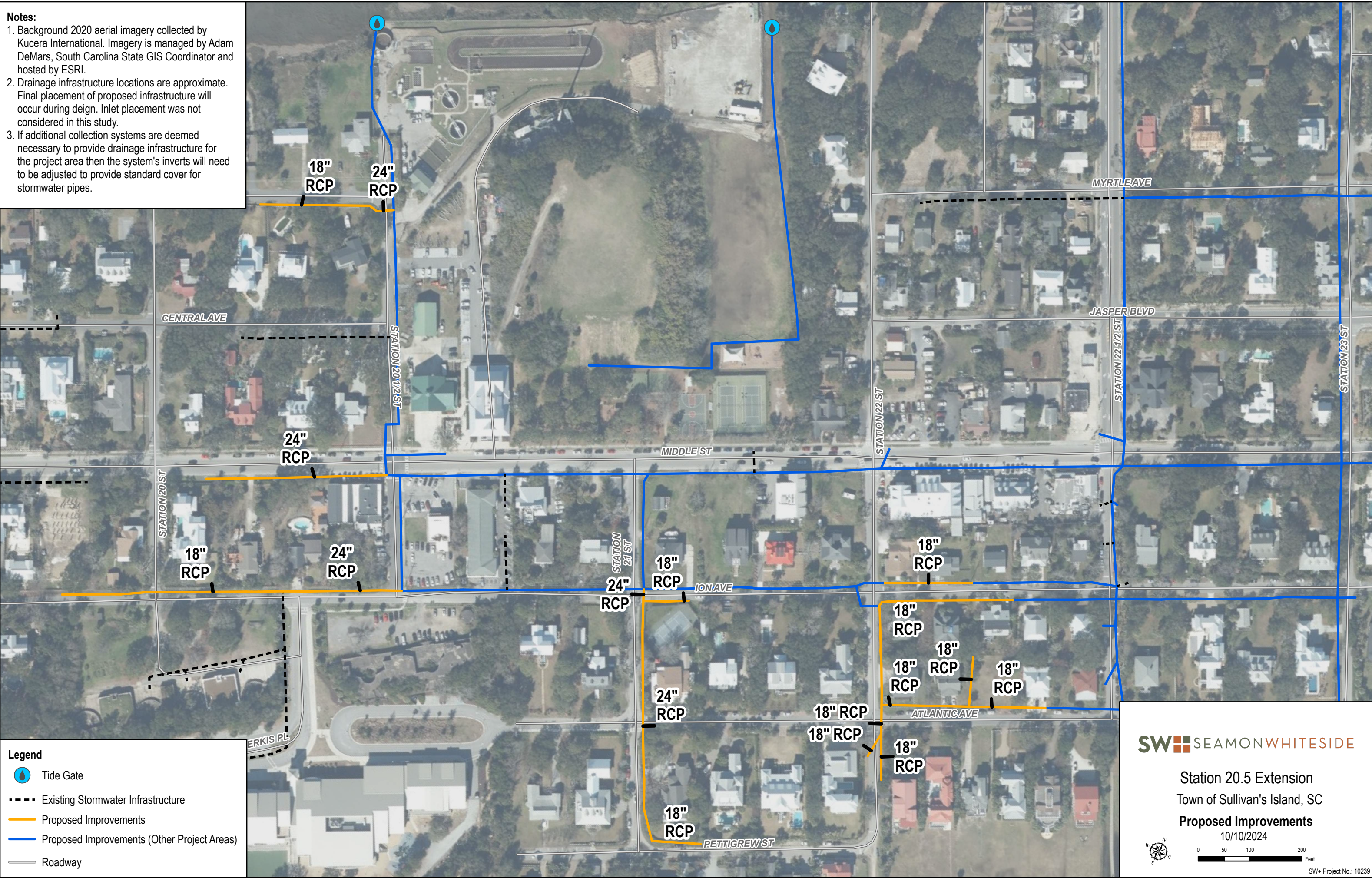
—— Proposed Improvements (Other Project Areas)

—— Roadway

SW ::: SEAMONWHITESIDE

Station 20.5

Town of Sullivan's Island, SC

Proposed Improvements

10/10/2024

0 50 100 200 Feet

SW+ Project No.: 10239

Document Path: P:\ACAD-D-3\10239\GIS\ArcPro\10239 - Cost Estimates and Project Exhibits\10239 - Cost Estimates and Project Exhibits.aprx

Notes:

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2. Drainage infrastructure locations are approximate. Final placement of proposed infrastructure will occur during deign. Inlet placement was not considered in this study.
3. If additional collection systems are deemed necessary to provide drainage infrastructure for the project area then the system's inverts will need to be adjusted to provide standard cover for stormwater pipes.

18" RCP

24" RCP

24" RCP

18" RCP

24" RCP

18" RCP

24" RCP

18" RCP

18" RCP

18" RCP

18" RCP

18" RCP

24" RCP

18" RCP

18" RCP

18" RCP

18" RCP

18" RCP

MYRTLE AVE

JASPER BLVD

CENTRAL AVE

STATION 20 1/2 ST

STATION 22 ST

STATION 22 1/2 ST

STATION 23 ST

MIDDLE ST

STATION 20 ST

STATION 21 ST

ION AVE

ATLANTIC AVE

ERKIS PL

PETTIGREW ST

Legend

💧 Tide Gate

- - - Existing Stormwater Infrastructure

—— Proposed Improvements

—— Proposed Improvements (Other Project Areas)

—— Roadway

SW ■ SEAMONWHITESIDE

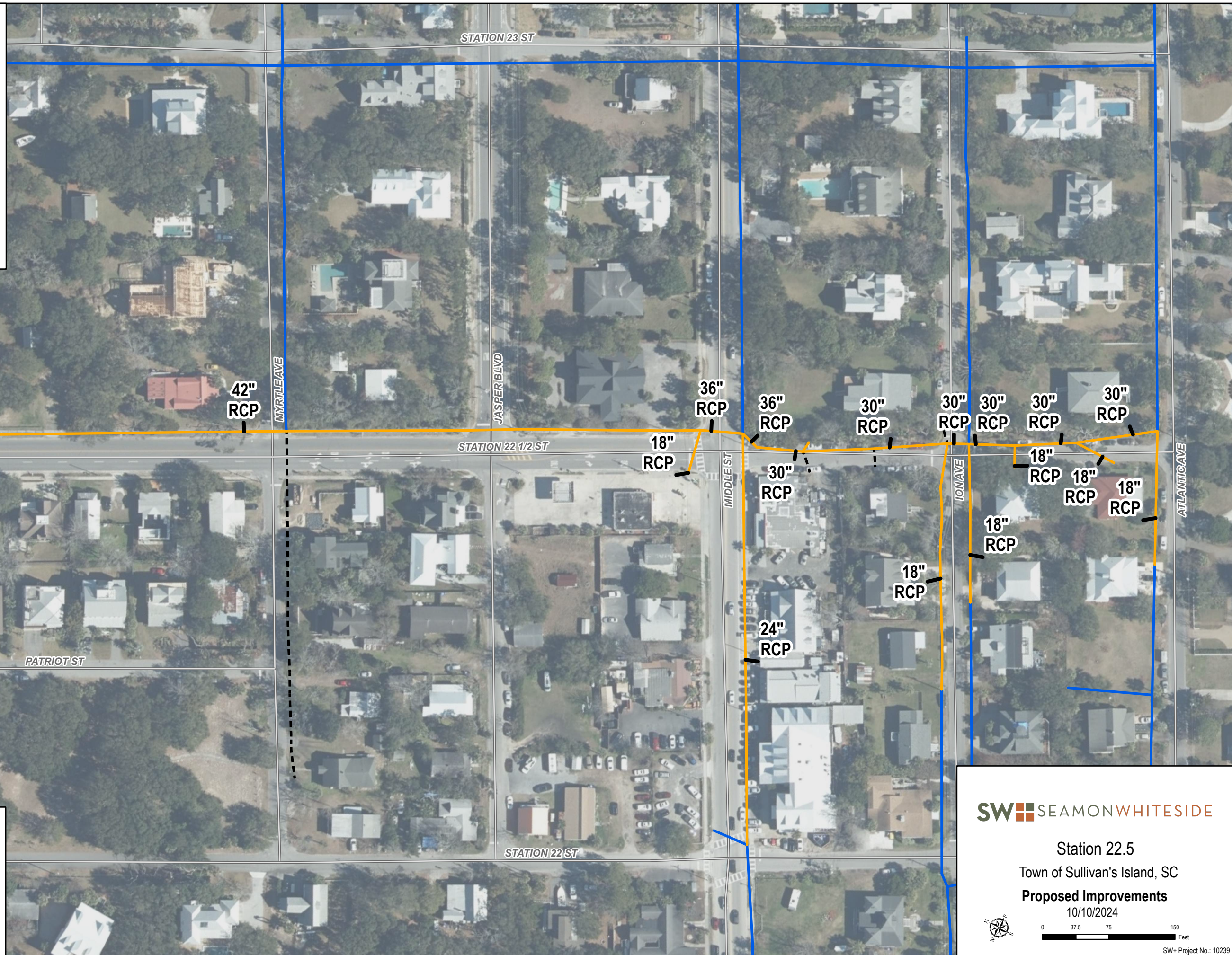**Station 20.5 Extension**

Town of Sullivan's Island, SC

Proposed Improvements

10/10/2024

0 50 100 200 Feet

SW+ Project No.: 10239

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3. If additional collection systems are deemed necessary to provide drainage infrastructure for the project area then the system's inverts will need to be adjusted to provide standard cover for stormwater pipes.
4. 42" tide gate to be installed at end of pipe on Station 22.5 with approximately 625 LF of excavation required at the outfall ditch.

STATION 23 ST

MYRTLE AVE

JASPER BLVD

MIDDLE ST

ION AVE

ATLANTIC AVE

42" RCP

36" RCP

36" RCP

30" RCP

30" RCP

30" RCP

30" RCP

30" RCP

18" RCP

30" RCP

18" RCP

18" RCP

18" RCP

18" RCP

18" RCP

24" RCP

18" RCP

STATION 22 1/2 ST
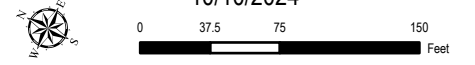
PATRIOT ST

STATION 22 ST

Legend

💧 Tide Gate

- - - Existing Stormwater Infrastructure

—— Proposed Improvements

—— Proposed Improvements (Other Project Areas)

—— Roadway

SW ❚❚ SEAMONWHITESIDE

Station 22.5

Town of Sullivan's Island, SC

Proposed Improvements

10/10/2024

0   37.5   75   150 Feet

SW+ Project No.: 10239

Document Path: P:\ACAD-D-3\10239\GIS\ArcPro\10239 - Cost Estimates and Project Exhibits\10239 - Cost Estimates and Project Exhibits.aprx

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STATION 23 ST

MYRTLE AVE

24" RCP

JASPER BLVD

MIDDLE ST

24" RCP

ION AVE

18" RCP

ATLANTIC AVE

24" RCP

STATION 22 1/2 ST

Legend
- - - Existing Stormwater Infrastructure
——— Proposed Improvements
——— Proposed Improvements (Other Project Areas)
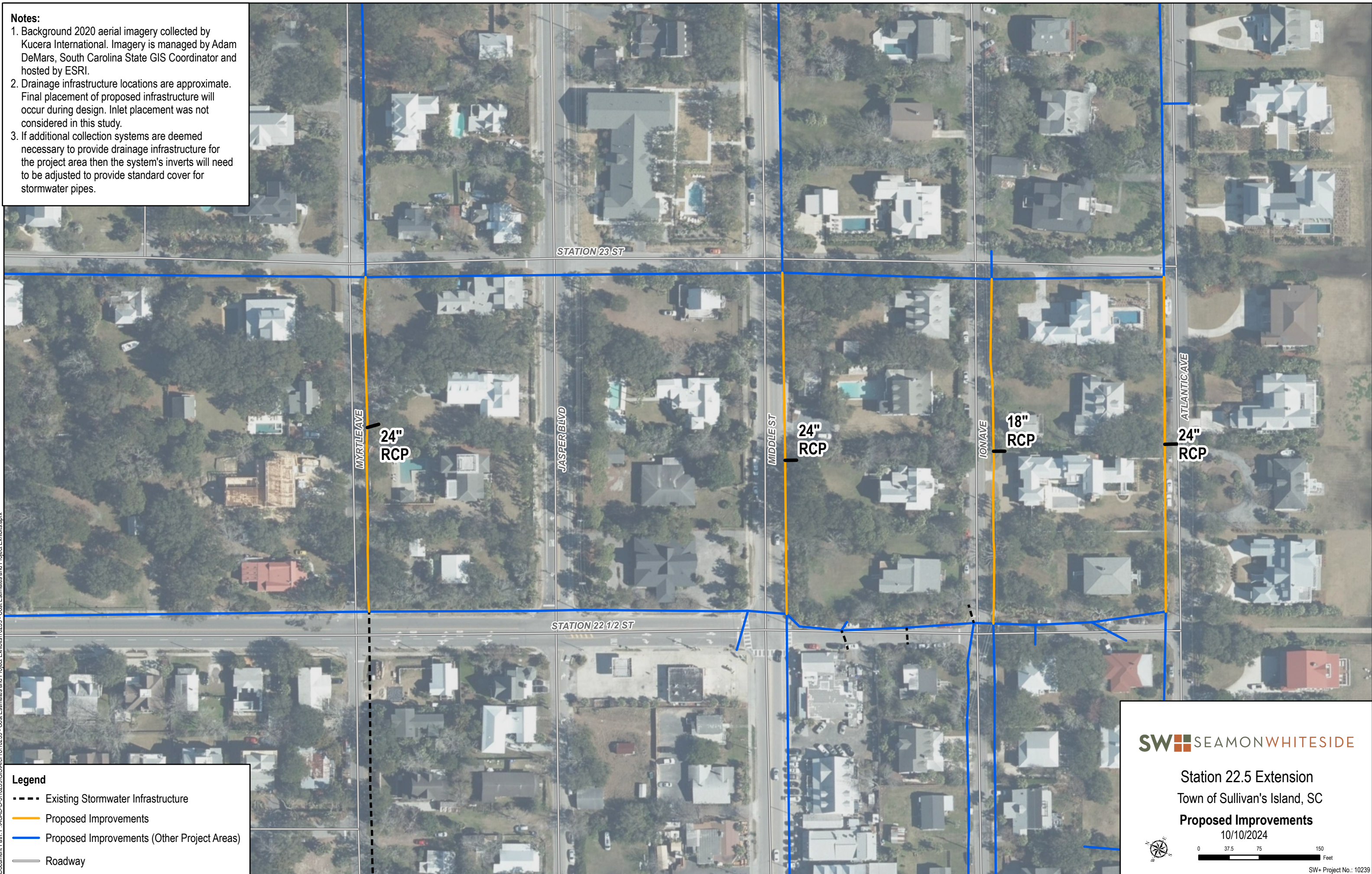——— Roadway

SW SEAMONWHITESIDE

Station 22.5 Extension
Town of Sullivan's Island, SC

Proposed Improvements
10/10/2024

0 37.5 75 150
Feet

SW+ Project No.: 10239

Document Path: P:\ACAD-D-3\10239\GIS\AcrProj\10239 - Cost Estimates and Project Exhibits\10239 - Cost Estimates and Project Exhibits.aprx

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3. If additional collection systems are deemed necessary to provide drainage infrastructure for the project area then the system's inverts will need to be adjusted to provide standard cover for stormwater pipes.
4. 36" tide gate to be installed at end of pipe on Station 23 with approximately 278 LF of excavation at the outfall ditch.

STATION 24 ST

STATION 23 ST

RAVEN

GOLD BUG AVE

MYRTLE AVE

JASPER BLVD

MIDDLE ST

ION AVE

ATLANTIC AVE

24" RCP

18" RCP

24" RCP

30" RCP

24" RCP

30" RCP

24" RCP

18" RCP
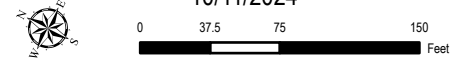
24" RCP

36" RCP

Legend

⬤ Tide Gate

╌ ╌ Existing Stormwater Infrastructure

──── Proposed Improvements

──── Proposed Improvements (Other Project Areas)

──── Roadway

SW ▋ seamonwhiteside

Station 23

Town of Sullivan's Island, SC

Proposed Improvements

10/11/2024

0   37.5   75   150
Feet

SW+ Project No.: 10239

Document Path: P:\ACAD-D-3\10239\GIS\ArcPro\10239 - Cost Estimates and Project Exhibits\10239 - Cost Estimates and Project Exhibits.aprx

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3. If additional collection systems are deemed necessary to provide drainage infrastructure for the project area then the system's inverts will need to be adjusted to provide standard cover for stormwater pipes.
4. 48" tide gate to be installed at end of pipe on Station 24 St with approximately 470 LF of excavation required at the outfall ditch.

Legend

- 💧 Tide Gate
- ▪▪▪ Existing Stormwater Infrastructure
- ▬▬▬ Proposed Improvements
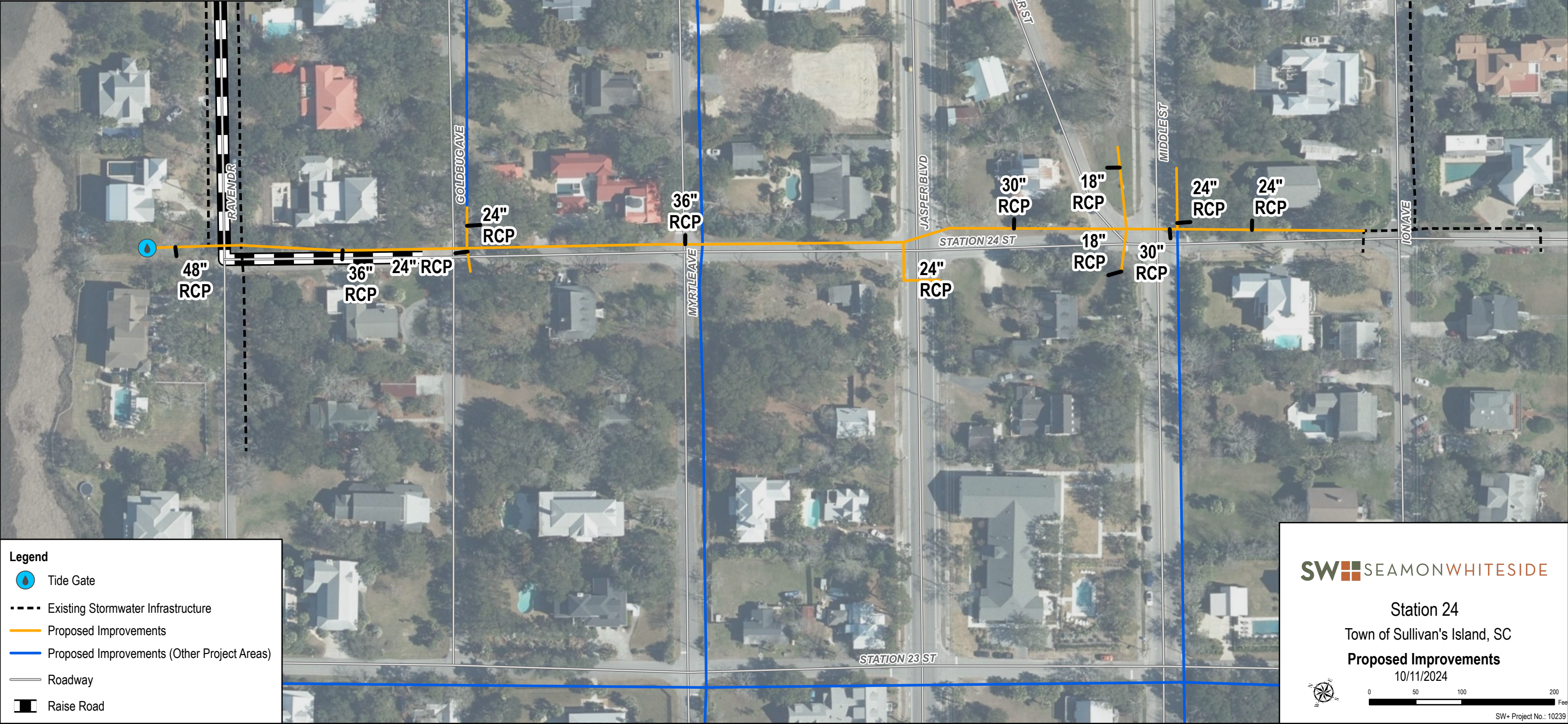- ▬▬▬ Proposed Improvements (Other Project Areas)
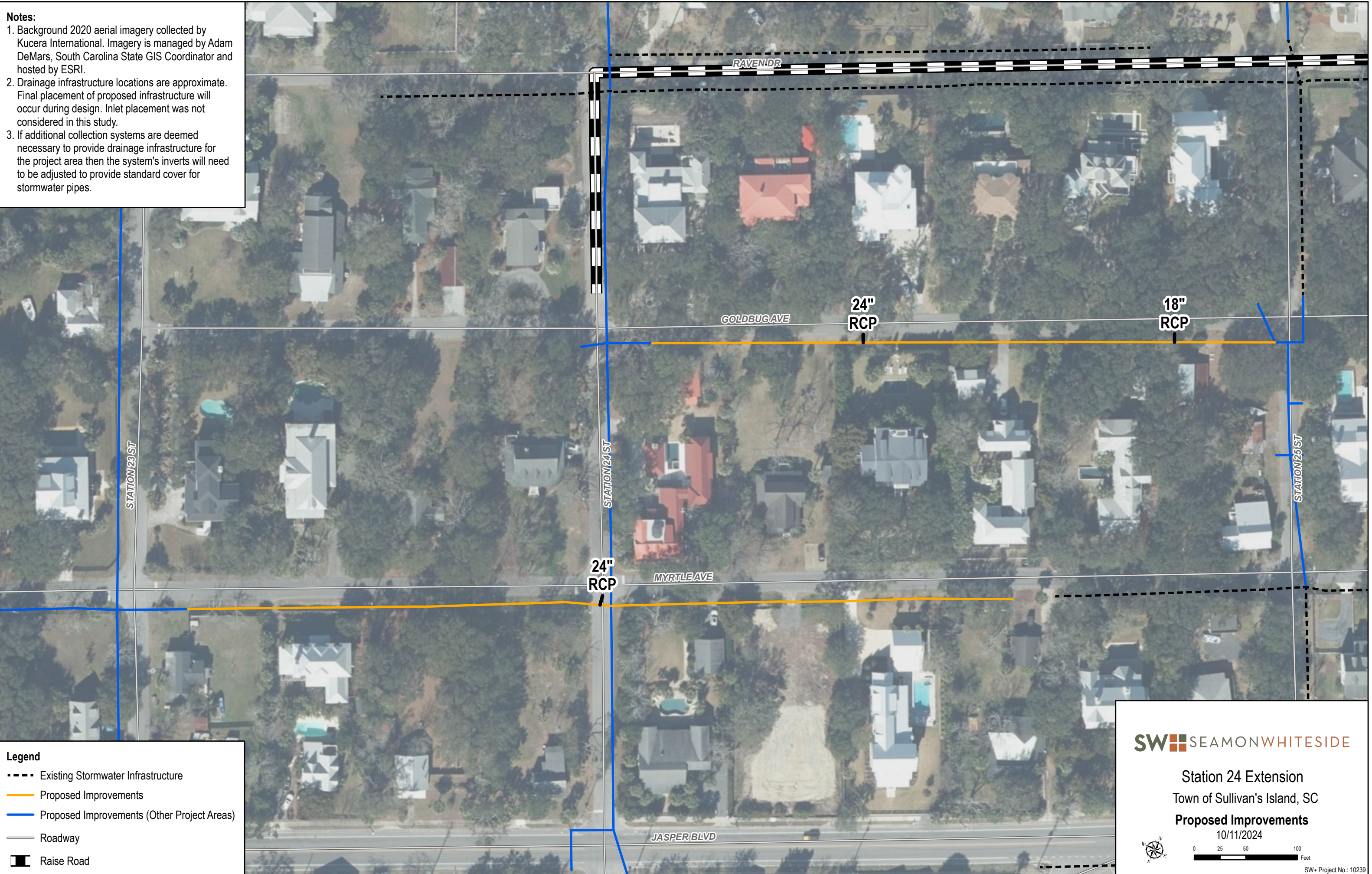- ▬▬▬ Roadway
- ▬▬▬ Raise Road

Street labels: RAVEN DR, GOLDBUG AVE, MYRTLE AVE, JASPER BLVD, QUARTER ST, MIDDLE ST, ION AVE, STATION 24 ST, STATION 23 ST

Pipe labels: 48" RCP, 36" RCP, 24" RCP, 24" RCP, 36" RCP, 24" RCP, 30" RCP, 18" RCP, 18" RCP, 30" RCP, 24" RCP, 24" RCP

SW ▪▪ SEAMONWHITESIDE

Station 24
Town of Sullivan's Island, SC

Proposed Improvements
10/11/2024

0 50 100 200 Feet

SW+ Project No.: 10239

Document Path: P:\ACAD-D-3\10239\GIS\ArcPro\10239 - Cost Estimates and Project Exhibits\10239 - Cost Estimates and Project Exhibits.aprx

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3. If additional collection systems are deemed necessary to provide drainage infrastructure for the project area then the system's inverts will need to be adjusted to provide standard cover for stormwater pipes.

RAVEN DR

GOLDBUG AVE

24" RCP

18" RCP

STATION 23 ST

STATION 24 ST

STATION 25 ST

24" RCP

MYRTLE AVE

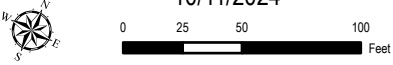JASPER BLVD

Legend

- - - - Existing Stormwater Infrastructure

───── Proposed Improvements

───── Proposed Improvements (Other Project Areas)
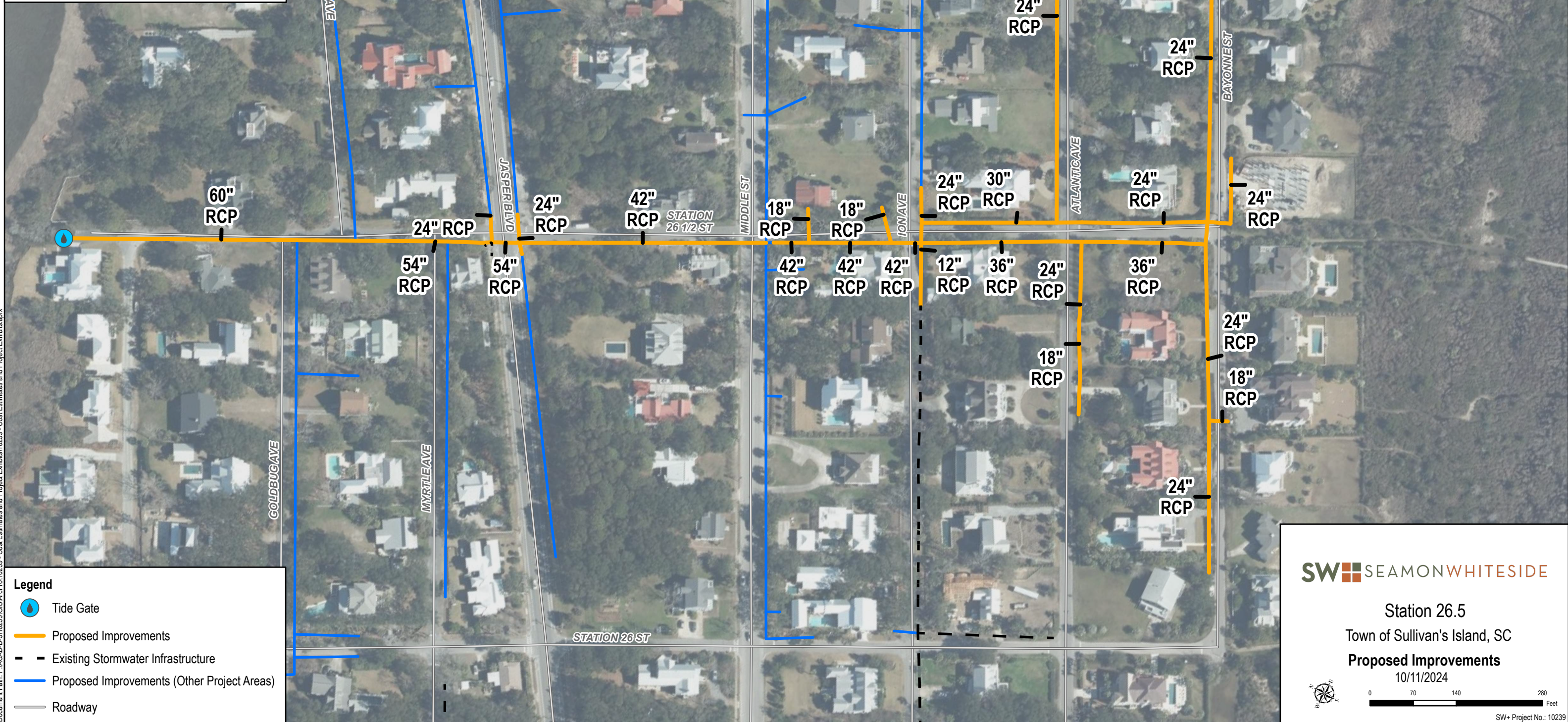
───── Roadway

▪▪▪▪ Raise Road

SW ❚❚ SEAMONWHITESIDE

Station 24 Extension

Town of Sullivan's Island, SC

Proposed Improvements

10/11/2024

0 25 50 100
Feet

SW+ Project No.: 10239

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3. If additional collection systems are deemed necessary to provide drainage infrastructure for the project area then the system's inverts will need to be adjusted to provide standard cover for stormwater pipes.
4. 60" tide gate to be installed at end of pipe on Station 26.5 with approximately 600 LF of excavation required at the outfall ditch.
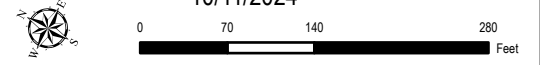
STATION 27 ST

18" RCP
24" RCP
24" RCP
60" RCP
24" RCP
24" RCP
42" RCP
18" RCP
18" RCP
24" RCP
30" RCP
24" RCP
24" RCP
54" RCP
54" RCP
42" RCP
42" RCP
42" RCP
12" RCP
36" RCP
24" RCP
36" RCP
24" RCP
18" RCP
18" RCP
24" RCP

GOLDBUG AVE
JASPER BLVD
MIDDLE ST
ION AVE
ATLANTIC AVE
BAYONNE ST
MYRTLE AVE
STATION 26 1/2 ST
STATION 26 ST

Legend

💧 Tide Gate

— Proposed Improvements

- - Existing Stormwater Infrastructure

— Proposed Improvements (Other Project Areas)

— Roadway

SW■ SEAMON WHITESIDE
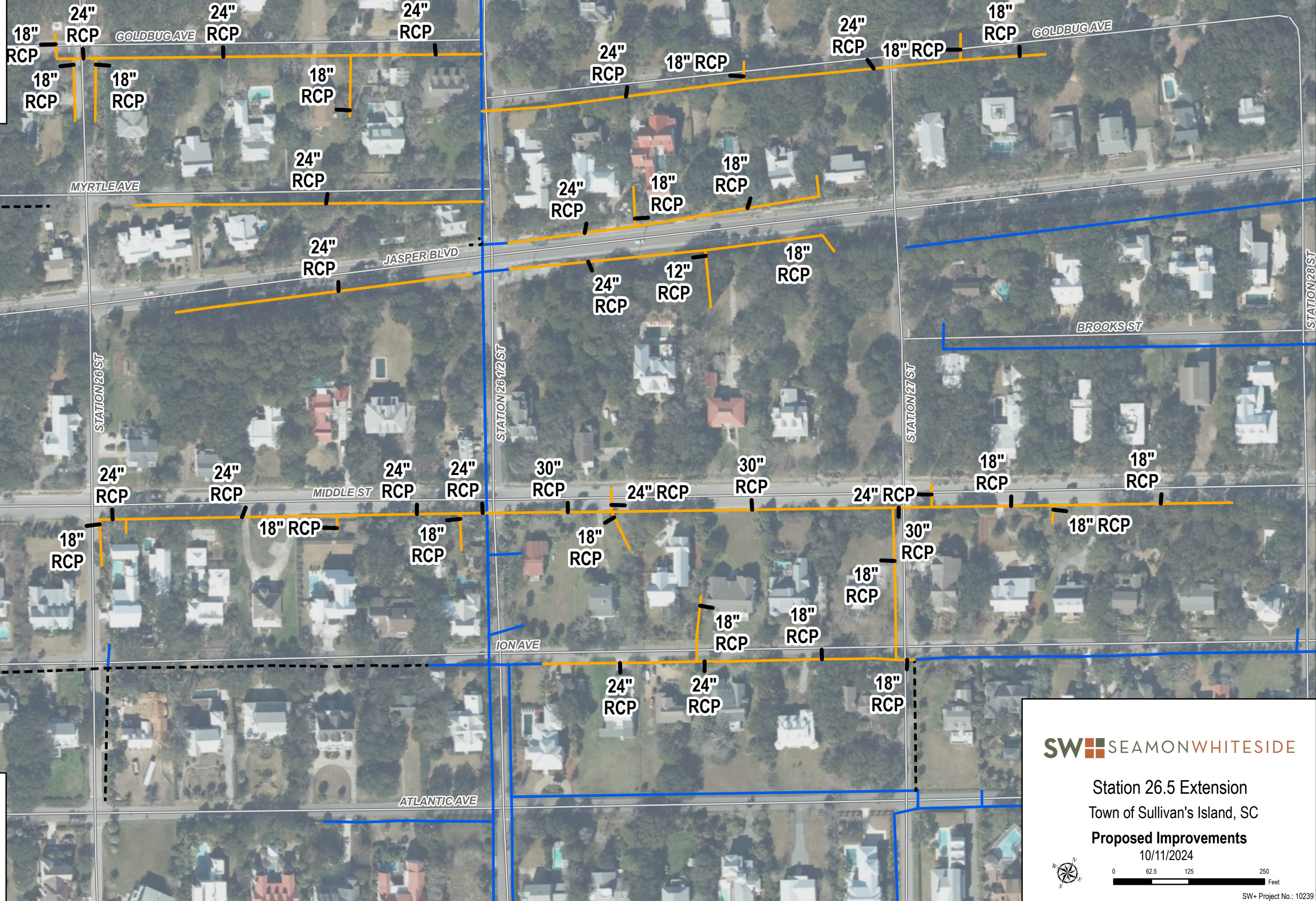
Station 26.5
Town of Sullivan's Island, SC
Proposed Improvements
10/11/2024

0 70 140 280 Feet

SW+ Project No.: 10239

Document Path: P:\ACAD-D-3\10239\GIS\ArcPro\10239 - Cost Estimates and Project Exhibits\10239 - Cost Estimates and Project Exhibits.aprx

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2. Drainage infrastructure locations are approximate. Final placement of proposed infrastructure will occur during design. Inlet placement was not considered in this study.
3. If additional collection systems are deemed necessary to provide drainage infrastructure for the project area then the system's inverts will need to be adjusted to provide standard cover for stormwater pipes.

Legend
- - - Existing Stormwater Infrastructure
—— Proposed Improvements
—— Proposed Improvements (Other Project Areas)
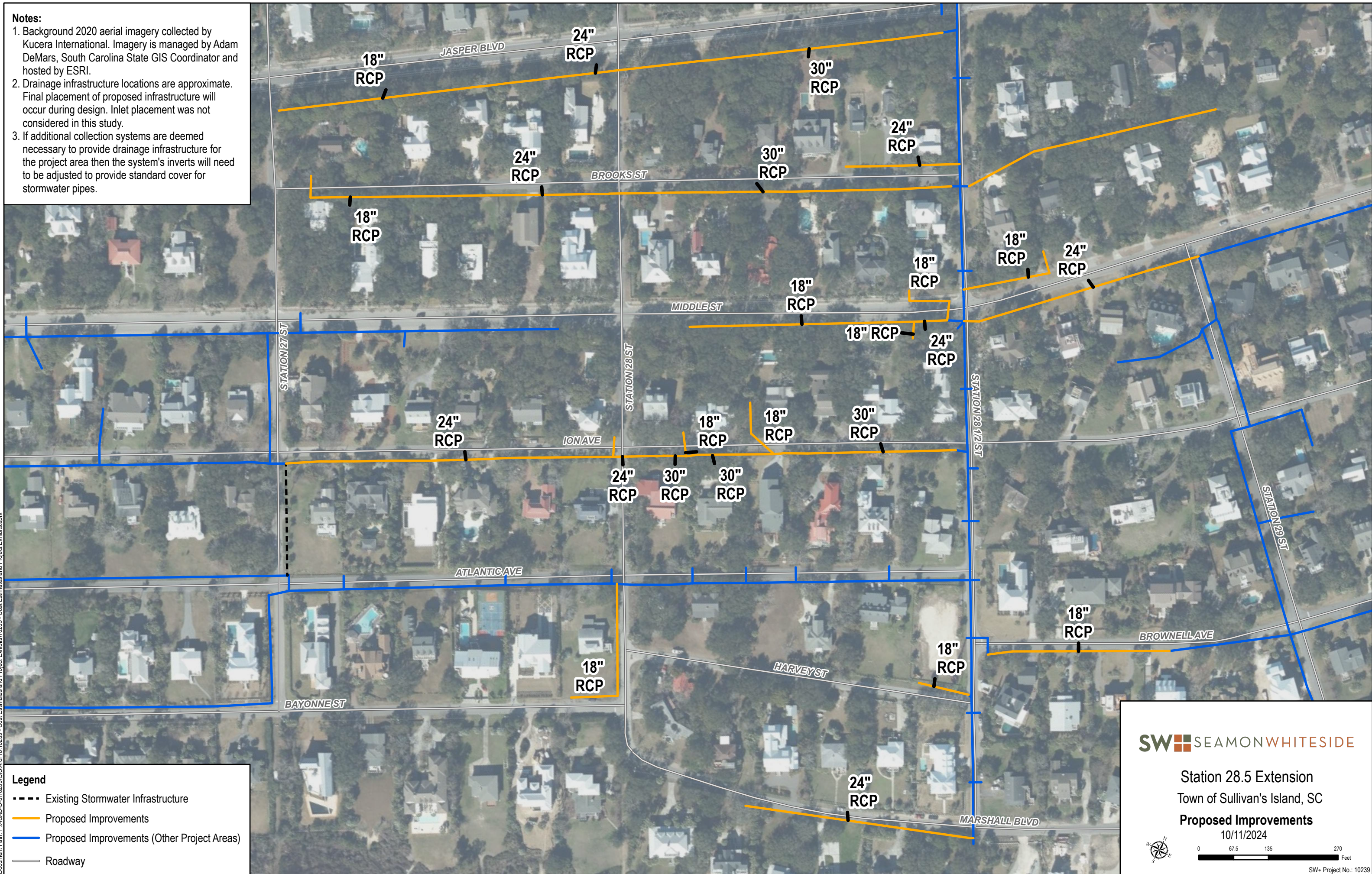—— Roadway

SW■ SEAMONWHITESIDE

Station 26.5 Extension
Town of Sullivan's Island, SC
Proposed Improvements
10/11/2024

0   62.5   125   250
Feet

SW+ Project No.: 10239

Document Path: P:\ACAD-D-3\10239\GIS\ArcPro\10239 - Cost Estimates and Project Exhibits\10239 - Cost Estimates and Project Exhibits.aprx

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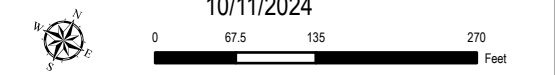
Legend

- - - - - Existing Stormwater Infrastructure
━━━━━ Proposed Improvements
━━━━━ Proposed Improvements (Other Project Areas)
━━━━━ Roadway

SW ⬛ SEAMONWHITESIDE

Station 28.5 Extension

Town of Sullivan's Island, SC

Proposed Improvements

10/11/2024

0   67.5   135   270
Feet

SW+ Project No.: 10239

Notes:
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3. If additional collection systems are deemed necessary to provide drainage infrastructure for the project area then the system's inverts will need to be adjusted to provide standard cover for stormwater pipes.

Legend
- – – – Existing Stormwater Infrastructure
- ——— Proposed Improvements
- ——— Proposed Improvements (Other Project Areas)
- ——— Roadway

18" RCP
24" RCP
30" RCP
18" RCP
30" RCP
18" RCP
24" RCP
24" RCP
18" RCP
18" RCP
24" RCP
18" RCP
24" RCP
18" RCP
24" RCP
24" RCP
18" RCP
18" RCP
24" RCP
18" RCP

STATION 30 ST
STATION 29 ST
JASPER B
MIDDLE ST
ION AVE
BROWNELL AVE
MARSHALL BLVD

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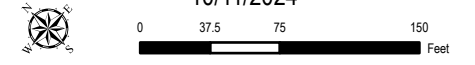SW+ Project No.: 10239

SW ⬛ SEAMONWHITESIDE

Station 30 Extension
Town of Sullivan's Island, SC

Proposed Improvements
10/11/2024

0   37.5   75   150
Feet

SW+ Project No.: 10239

Notes:
1. Background 2020 aerial imagery collected by Kucera International. Imagery is managed by Adam DeMars, South Carolina State GIS Coordinator and hosted by ESRI.
2. Drainage infrastructure locations are approximate. Final placement of proposed infrastructure will occur during design. Inlet placement was not considered in this study.
3. If additional collection systems are deemed necessary to provide drainage infrastructure for the project area then the system's inverts will need to be adjusted to provide standard cover for stormwater pipes.

24" RCP

30" RCP

30" RCP

30" RCP

30" RCP

MIDDLE ST

ION AVE

BROWNELL AVE

MARSHALL BLVD

STATION 31 ST

STATION 32 ST

Legend
- - - Existing Stormwater Infrastructure
—— Proposed Improvements
—— Proposed Improvements (Other Project Area)
—— Roadway

SW ■■ SEAMONWHITESIDE

Station 31 Extension
Town of Sullivan's Island, SC

Proposed Improvements
10/11/2024

0   37.5   75   150
                        Feet

SW+ Project No.: 10239

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