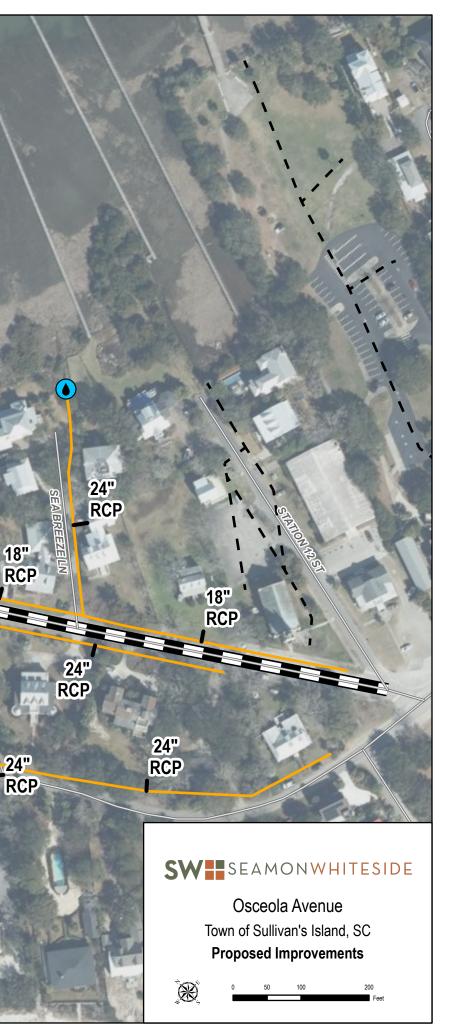
Appendix C: Proposed Improvements

- 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.
- Proposed improvements along the marsh-front (northeastern) side of Osceola Avenue (between approximately Station 10 and Station 12) and their associated impacts are not included in Appendix D.
- 4. 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.
- 5. 24" tide gate to be installed at the end of pipe on Sea Breeze Ln with approximately 425 LF of ditch excavation required at the outfall.
- 6. Pump station to discharge directly to tidal marsh at end of Station 10. No force main required.
- 7. Pump station currently proposed as a triplex pump station consisting of two high flow rate pumps and one jockey pump for smaller storm events.
- 8. 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

Roadway

---- Existing Stormwater Infrastructure

Proposed Improvements

- 1. Background 2020 aerial imagery collected by Kucera International. Imagery is managed by Adam DeMars, South Carolina State GIS Coordinator and hosted by ESRI.
- Provided by ESRI.
 Drainage infrastructure locations are approximate. Final placement of proposed infrastructure will occur during design. Inlet placement was not considered in this study.
- 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 -THOMPSONAVE 36" RCP 18" RCP 24" RCP 30"RCP 18" RCP MIDD 24" RCP 18" RCP POEAVE MAN ABARAR BEAR AB Proposed Imrovements (Other Project Areas)

SWESEAMONWHITESIDE

Station 14 Town of Sullivan's Island, SC **Proposed Improvements**









- Notes:

 Background 2020 aerial imagery collected by Kucera International. Imagery is managed by Adam DeMars, South Carolina State GIS Coordinator and hosted by ESRI.
 Drainage infrastructure locations are approximate. Final placement of proposed infrastructure will occur during design. Inlet placement was not considered in this study.
 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.

 stormwater pipes.

12" RCP

18" RCP

18" RCP

24" RCP



Roadway

24" RCP 18" RCP MIDDLE ST 100 24" RCP -18" RCP POLANE 24" 18" RCP RCP 18" RCP 18" RCP



SWSEAMONWHITESIDE

Station 16 Extension Town of Sullivan's Island, SC Proposed Improvements

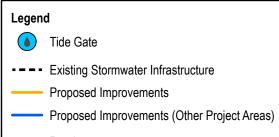


10100

ATLANTIC AVE



- 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.
- 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.



- Roadway
- Raise Road

SW SEAMONWHITESIDE

Station 17 Town of Sullivan's Island, SC **Proposed Improvements**



15" RCP

MIDDLE ST

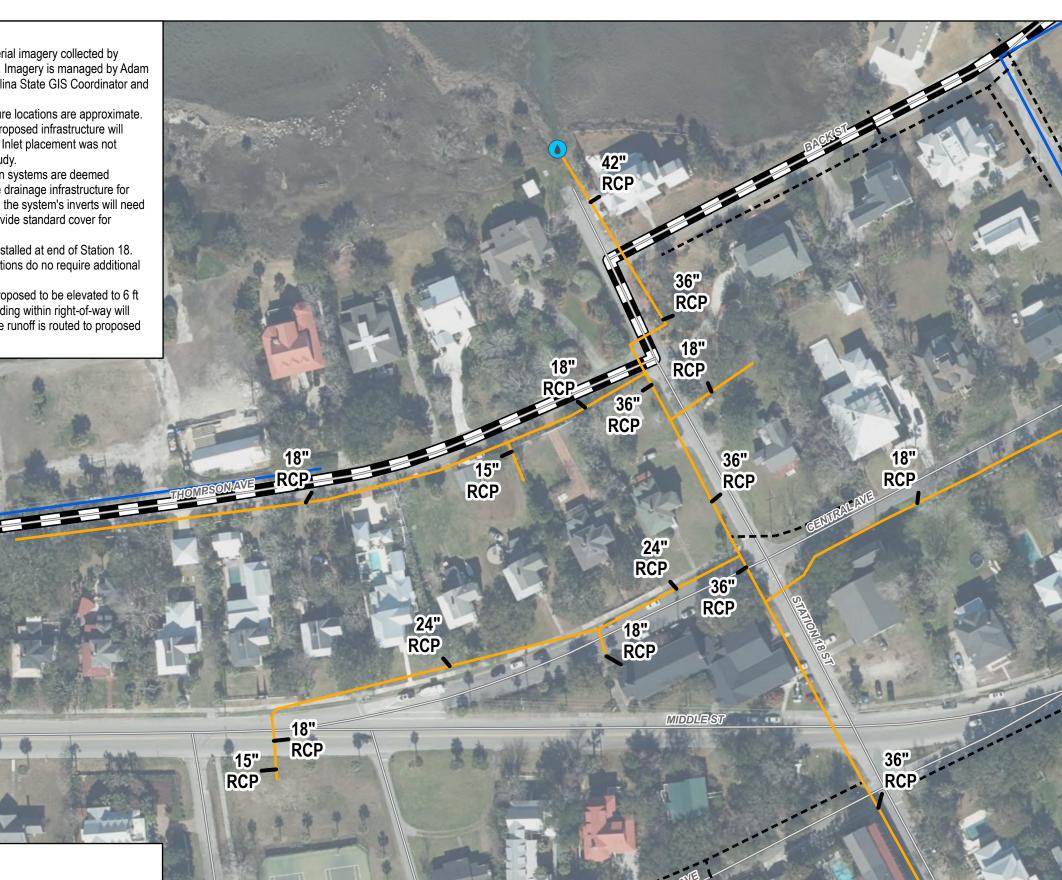
18" RCP

15" RCP





- 1. Background 2020 aerial imagery collected by Kucera International. Imagery is managed by Adam DeMars, South Carolina State GIS Coordinator and hosted by ESRI.
- 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.
- 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

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



Station 18 Town of Sullivan's Island, SC **Proposed Improvements**







- 1. Background 2020 aerial imagery collected by Kucera International. Imagery is managed by Adam DeMars, South Carolina State GIS Coordinator and hosted by ESRI.
- 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. 30" tide gate to be installed at end of pipe on Station
- 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.
- 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.

30"

RCP

1

Legend

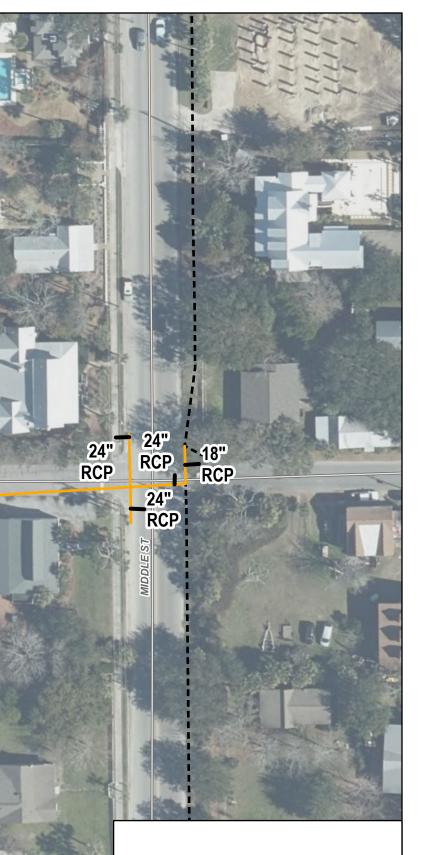
Tide Gate

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





24" RCP



SWSEAMONWHITESIDE

Station 19 Town of Sullivan's Island, SC **Proposed Improvements**







- 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.

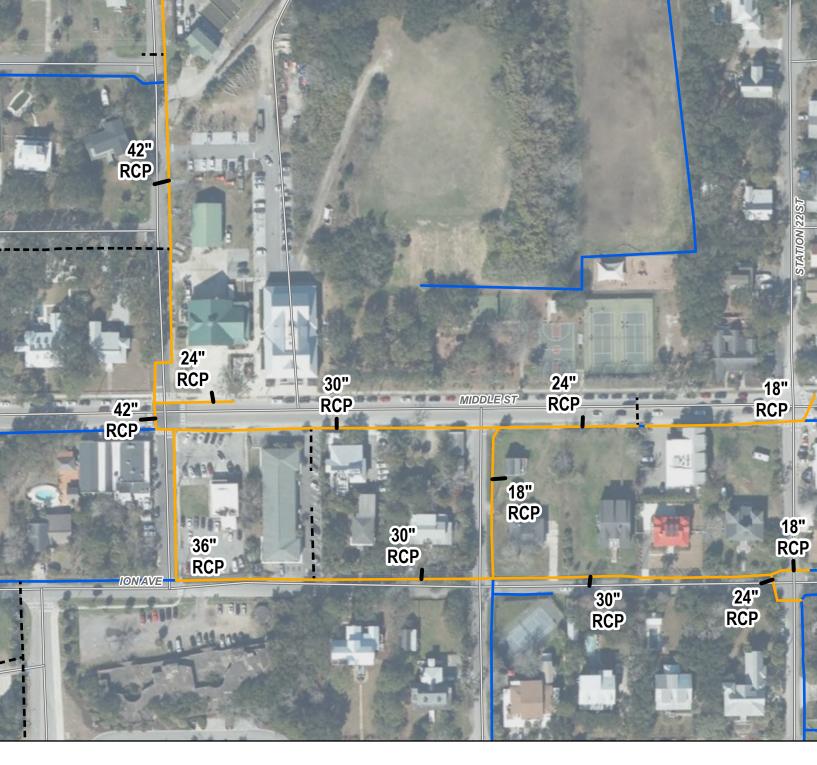
48" RCP

- 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 20.5 St with approximately 136 LF of excavation required at the outfall ditch.

OENTRALAVE



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



E.



Station 20.5 Town of Sullivan's Island, SC **Proposed Improvements**



MMRTLEAVE



0 62.5 125





- 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. 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.



- Tide Gate
- ---- Existing Stormwater Infrastructure
- Proposed Improvements
- Proposed Improvements (Other Project Areas)

PATRIOT ST

Roadway



42" RCP



RCP

18"

36" RCP

30"

RCP

24' RCP

36"

RCP

100



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

SWSEAMONWHITESIDE

Station 22.5 Town of Sullivan's Island, SC **Proposed Improvements**







- Notes:

 Background 2020 aerial imagery collected by Kucera International. Imagery is managed by Adam DeMars, South Carolina State GIS Coordinator and hosted by ESRI.
 Drainage infrastructure locations are approximate. Final placement of proposed infrastructure will occur during design. Inlet placement was not considered in this study.
 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.

 stormwater pipes.





24" RCP





STATION 22 1/2 ST



ID.C



Legend

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

— Roadway



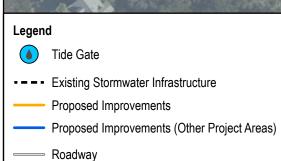
SW SEAMONWHITESIDE

Station 22.5 Extension Town of Sullivan's Island, SC Proposed Improvements

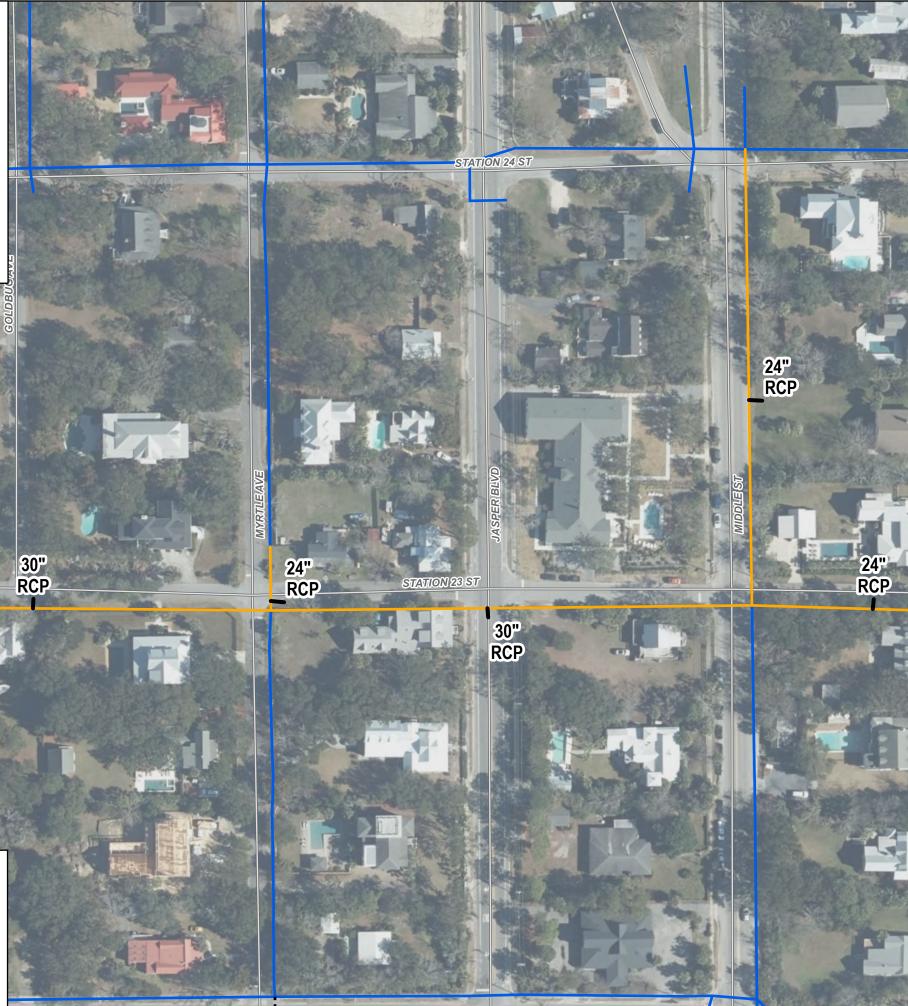
100



- Background 2020 aerial imagery collected by Kucera International. Imagery is managed by Adam DeMars, South Carolina State GIS Coordinator and hosted by ESRI.
- 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 pines
- 4. 36" tide gate to be installed at end of pipe on Station 23 with approximately 278 LF of excavation at the outfall ditch.



36" RCP





24"

RCP

Station 23 Town of Sullivan's Island, SC Proposed Improvements



18"

RCP





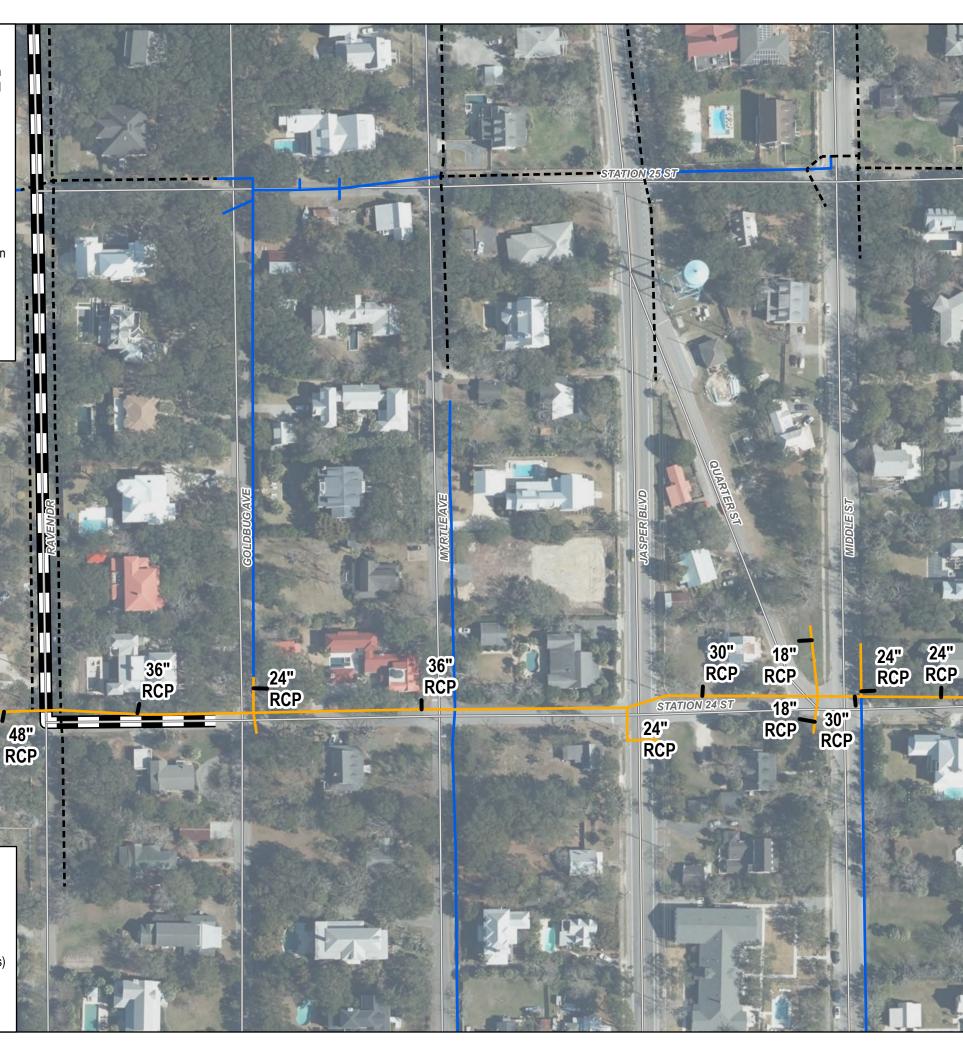
24" RCP

18" RCP

- 1. Background 2020 aerial imagery collected by Kucera International. Imagery is managed by Adam DeMars, South Carolina State GIS Coordinator and hosted by ESRI.
- Drainage infrastructure locations are approximate.
 Final placement of proposed infrastructure will occur during design. Inlet placement was not considered in this study.
- 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.
- Road centerline is proposed to be elevated to 7 ft NAVD88. Proper grading within right-of-way will be required to ensure runoff is routed to proposed infrastructure.



Raise Road





Station 24 Town of Sullivan's Island, SC **Proposed Improvements**







- Notes:

 Background 2020 aerial imagery collected by Kucera International. Imagery is managed by Adam DeMars, South Carolina State GIS Coordinator and hosted by ESRI.
 Drainage infrastructure locations are approximate. Final placement of proposed infrastructure will occur during design. Inlet placement was not considered in this study.
 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.

 stormwater pipes.

Legend

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







SWSEAMONWHITESIDE

Station 24 Extension Town of Sullivan's Island, SC Proposed Improvements



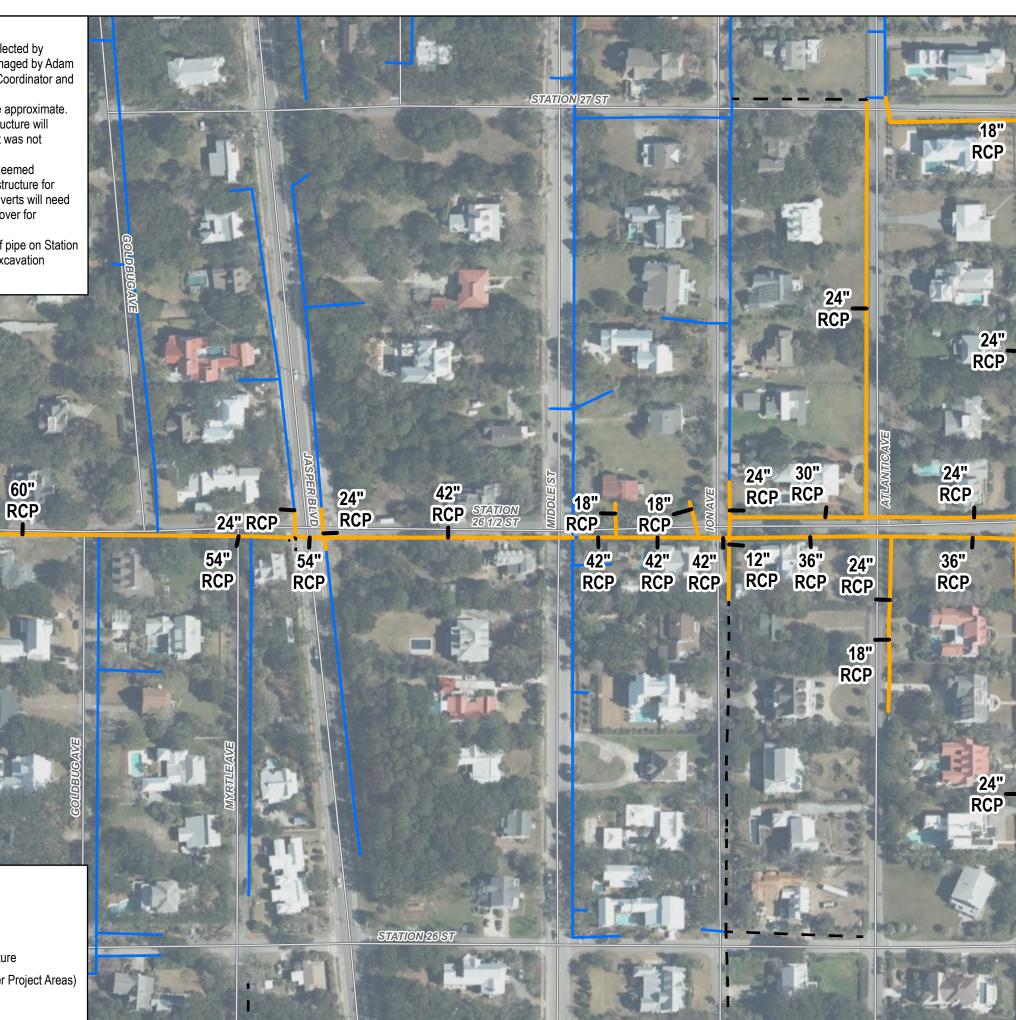
18" RCP

37.5

- 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.
- 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. 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.



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



SWSEAMONWHITESIDE

Station 26.5 Town of Sullivan's Island, SC **Proposed Improvements**

125



18"

24"

24" RCP

24" RCP

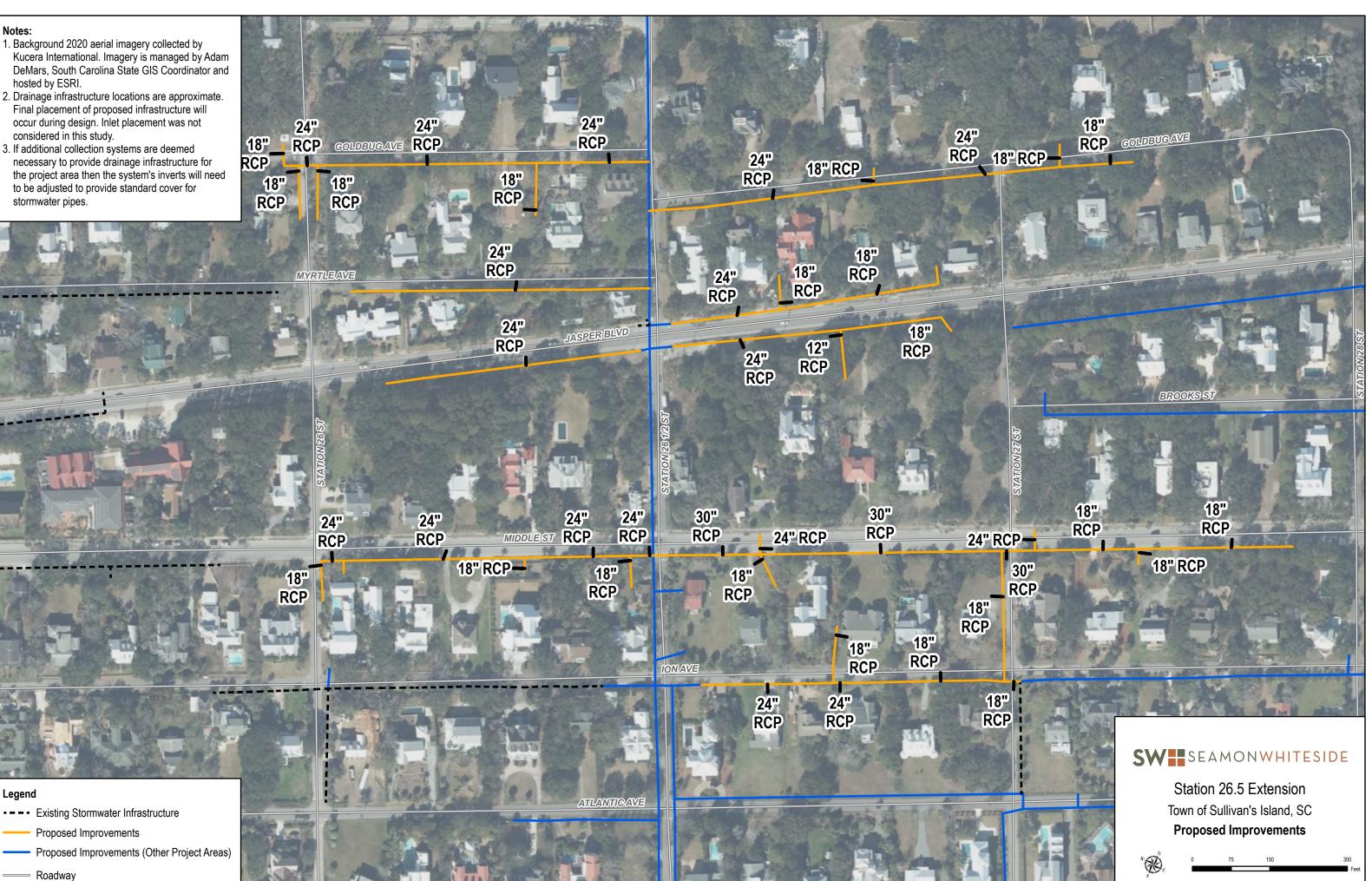
18"

RCP

24"









- 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.



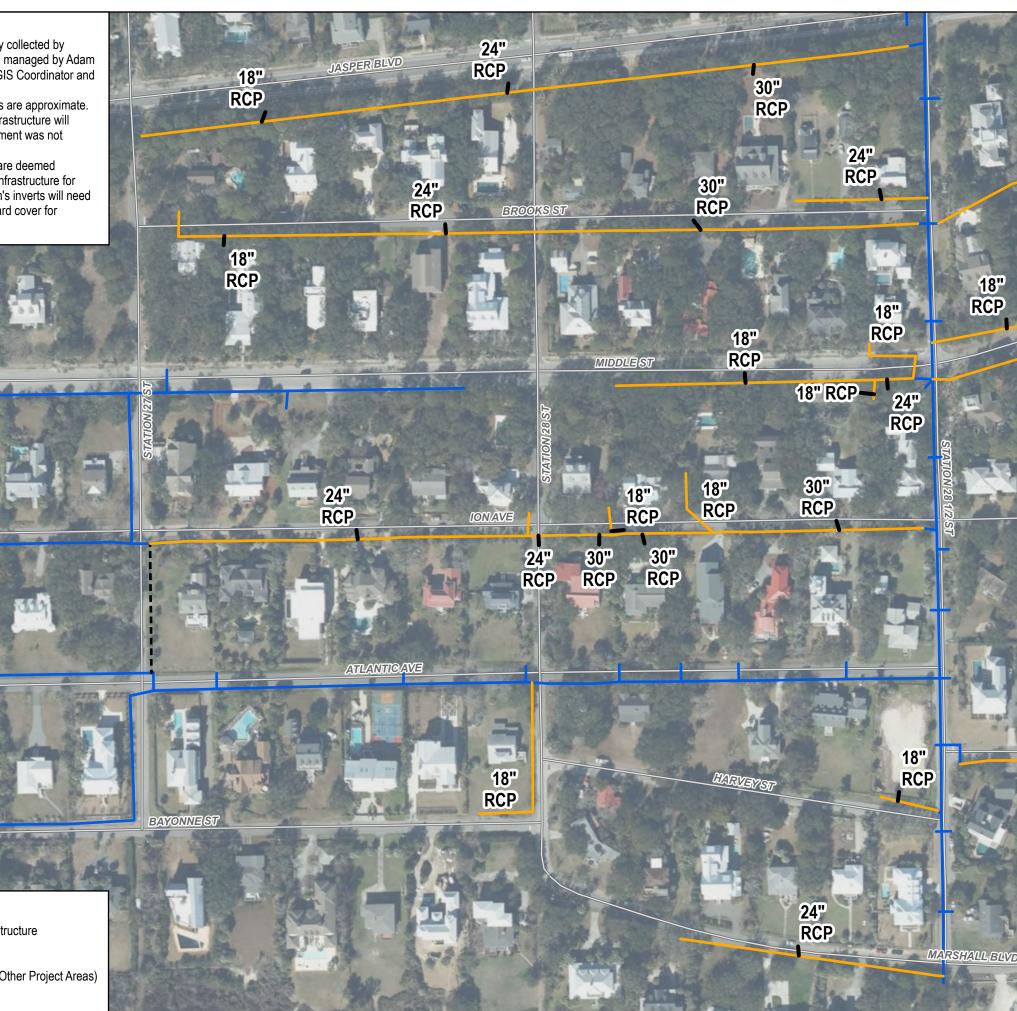




Legend

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

Roadway





Town of Sullivan's Island, SC **Proposed Improvements**



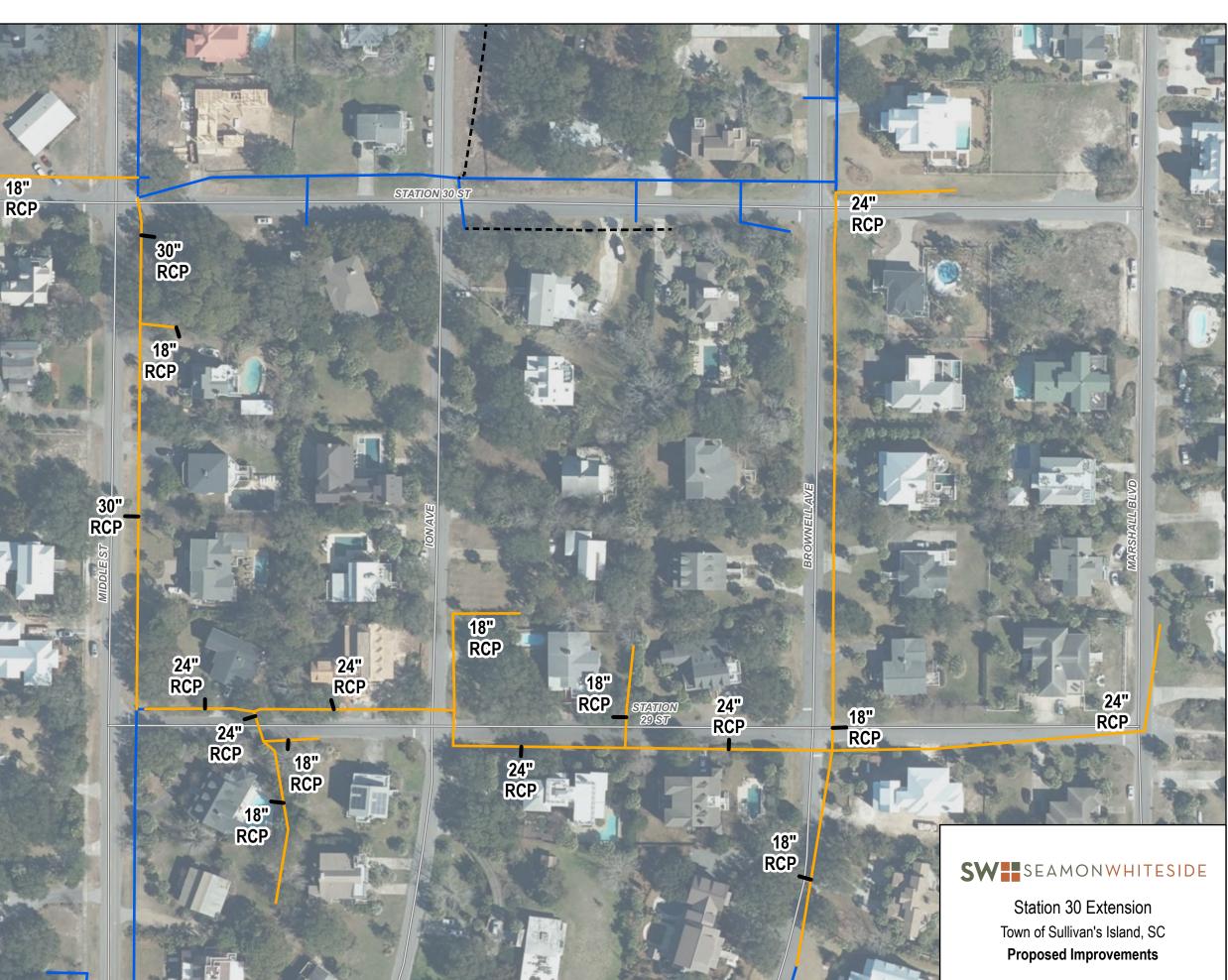
- Notes:

 Background 2020 aerial imagery collected by Kucera International. Imagery is managed by Adam DeMars, South Carolina State GIS Coordinator and hosted by ESRI.
 Drainage infrastructure locations are approximate. Final placement of proposed infrastructure will occur during design. Inlet placement was not considered in this study.
 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.

 stormwater pipes.

Legend

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











- Notes:

 Background 2020 aerial imagery collected by Kucera International. Imagery is managed by Adam DeMars, South Carolina State GIS Coordinator and hosted by ESRI.
 Drainage infrastructure locations are approximate. Final placement of proposed infrastructure will occur during design. Inlet placement was not considered in this study.
 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.

 stormwater pipes.



30" RCP

30" RCP



BROWNELLAVE

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





111

10 10

