Rhode Island Airport Corporation

April 12, 2024

ADDENDUM NO. 2
Invitation for Bids No. 34758
South Cargo Ramp Development
Rhode Island T. F. Green International Airport

Prospective Bidders and all concerned are hereby notified of the following changes in the Invitation for Bids (IFB) No. 34758. These changes shall be incorporated in and shall become an integral part of the contract documents.

1. **Contract Documents, Project Specifications,**

   i. **Division 0, Bidding and Contract Documents,**

   Section 00003 Table of Contents

   - Replace table of contents sheet 00003-3. The table has been updated to include MST-05 Field Office and 263213 Engine Generator Systems.

   00320 Bid Form,

   - Replace Schedule A Prices – Base Bid Cargo Ramp.

     Some pay items have been deleted, some pay items have been added, some quantities have been adjusted, some units of measure have been adjusted.

   - Replace Schedule B Prices – Base Bid UPS Site.

     Some pay items have been deleted, some pay items have been added, some quantities have been adjusted, some units of measure have been adjusted.

   - Replace Schedule C Prices – Additive Alternate Access Road.

     Pay item #13 Description has been revised.

- Replace Schedule E Prices – Additive Bid Alternate 2 Roundabout.

  Pay item #14 quantity has been adjusted.

- The Excel file containing the bid schedules is replaced and issued as part of Addendum No. 2.

ii. Technical Provision,

C-105 Mobilization. The following sentence is added to 105-4 Engineer/RPR Field Office:

"Refer to supplement specification MST-05 Field Office for the field office requirements."

F-162 Chain-Link Fence. Replace this specification (pages F-162-1 through F-162-4). The Basis of Payment have been modified to include: Item F-162-5.1b Relocate Temporary AOA Fencing on Jersey Barrier – per linear foot.

Note – The quantity of F-162-5.1a Temporary AOA Fencing for South Cargo Ramp Development – Volume 1 is amended to account for the length installed as part of Phase 2, with subsequent phased modifications to the Temporary AOA Fence layout to be covered under Relocate Temporary AOA Fencing on Jersey Barrier.

P-101 Preparation/Removal of Existing Pavements Replace this specification (pages P-101-1 through P-101-7). The Basis of Payment have been modified to include: Item P-101-5.2f Removal of Electrical Cable from Conduits – per linear foot; Item P-101-5.2i Removal of Electrical Conduit in Demolished Pavement – per linear foot; Item P-101-5.2j Removal of Electrical Conduit in Turf – per linear foot; Item P-101-5.2k Removal of Electrical Conduit in Existing Pavement – per linear foot; Item P-101-5.2l Removal of Electrical Duct Bank – per linear foot; Item P-101-5.3d Remove Elevated MITL Fixture and Base Can, Salvage Light – per each; and Item P-101-5.3e Removal Elevated MITL Fixture, Protect Base Can, Salvage Light – per each.

L-108 Underground Power Cable for Airports Replace this specification (pages L-108-1 through L-108-14). The Basis of Payment have been modified to include: L-108-5.1a No. 8 AWG 5kV, L-824, Type C Cable, Installed in Trench, Duct Bank, or Conduit – per linear foot. Item L-108-5.1b and L-108-5.1c were removed.

L-110 Airport Underground Electrical Duct Banks and Conduits Replace this specification (pages L-110-1 through L-110-10). The Basis of

Payment have been modified to include: Item L-110-4.1a 4”-2 Way Concrete Encased Duct Bank – per linear foot; Item L-110-5.1b Non-Encased, Electrical Conduit, 1-Way 2-inch, in new pavement – per linear foot; L-110-5.1c Non-Encased Electrical Conduit, 1-Way 2-inch, in existing pavement – per linear foot; L-110-5.1l Non-Encased, Electrical Conduit, 1-Way 2-inch, in Turf – per linear foot

L-115 Electrical Manholes and Junction Structures Replace this specification (pages L-115-1 through L-115-9). The Basis of Payment have been modified to include: Item L-115-5.2b L-868, Electrical Handhole, Class IB with Solid Lid, in PCCP – per each; L-115-5.2f Solid Lid on Existing L-867, Class IB Base Can – per each.

L-125 Installation of Airport Lighting Systems Replace this specification (pages L-125-1 through L-125-2). The Basis of Payment have been modified to include: Item L-125-5.1 Install Salvaged L-861T(L) on new L-867 Class IB Base Can, Installed in Pavement – Per each; L-125-5.1b Install Salvaged L-861T(L) on new L-867 Class IB Base Can, Installed in Turf – per each. The sign Style in paragraph 125-2.8 has also been modified.

iii. Supplemental Specifications,

MST-05 Field Office
This specification is added and included in the attachments to Addendum No. 2.

DX-791.02 Bioretention Basin
This specification has update to remove excavation from the method of measurement.

DX-791.03 Underground Detention Basin
This specification has update to remove excavation from the method of measurement.

263213 Engine Generator Systems
This specification is added and included in the attachments to Addendum No. 2.

265600 Exterior Lighting Field Office Section 2.5 Lighting Control Contractors, 2.6 Time Switches, and 2.7 Photoswitches have been added to this specification.

2. Plan Sheets

Volume 1 of 2 Airside and UPS Site

Sheet 2 – Sheet Index and Estimate of Quantities

Reissued: The Sheet Index and the Estimate of Quantities content has been updated. Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 4 – Scope of Work

Reissued: The plan sheet is re-issued and reflects updated Utility Contract reference for the water utility and reflects updated underground detention basin limits. Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 6 – Existing Conditions

Reissued: The plan sheet is re-issued and reflects updated Existing Conditions Note No. 1. Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 7 – Existing Conditions

Reissued: The plan sheet is re-issued and reflects updated Existing Conditions Note No. 1. Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 8 – Existing Conditions

Reissued: The plan sheet is re-issued and reflects updated Existing Conditions Note No. 1 and updated survey reference in plan view. Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 9 – Existing Conditions

Reissued: The plan sheet is re-issued and reflects updated Existing Conditions Note No. 1 and updated survey reference in plan view. Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 10 – Existing Conditions

Reissued: The plan sheet is re-issued and reflects the following:

- updated Existing Conditions Note No. 1,
- updated survey reference in plan view,
- updated existing storm sewer layout to reflect changes to the current Southside Site Work and Grading construction project,

- updated existing contour lines to reflect changes as part of the current Southside Site Work and Grading construction project.

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 11 – Existing Conditions

Reissued: The plan sheet is re-issued and reflects the following:

- updated Existing Conditions Note No. 1,
- updated survey reference in plan view,
- updated existing contour lines to reflect changes as part of the current Southside Site Work and Grading construction project.

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 12 – Boring Plan

Reissued: The plan sheet is re-issued and reflects the following:

- added test pit locations,

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 17 – Construction Access and Site Logistics Plan

Reissued: The plan sheet is re-issued and reflects the following:

- Added labels for earthen mound and wall, contractor employee parking, and topsoil stockpile.

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 19 – Construction Safety and Phasing Plans Phase 1 Work Area A

Reissued: The plan sheet is re-issued and reflects the following:

- Updated plan view line work.

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 23 – Construction Safety and Phasing Plan Phase 2

Reissued: The plan sheet is re-issued and reflects the following:

- Included a Work Area 2A and corresponding limits. Added a Phase 2A Work Area completion date.

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 24 – Construction Safety and Phasing Plan Phase 3

Reissued: The plan sheet is re-issued and reflects the following:

- erased airfield guidance sign symbols for signs to be removed as part of Phase 2.

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 32 – Demolition Plan

Reissued: The plan sheet is re-issued and reflects the following:

- there was a publishing issued with the original issued sheet that resulted in a blacked-out area covering part of the plan sheet. The sheet is republished without the blackout.
- updated site demolition to correspond with match line limits of Vol 2 Access Road Plans,
- updated existing storm sewer layout to reflect changes to the current Southside Site Work and Grading construction project.

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 34 – Demolition Plan

Reissued: The plan sheet is re-issued and reflects the following:

- updated existing mound and wall removal layout to reflect changes to the current Southside Site Work and Grading construction project.

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 35 – Typical Sections and Site Details

Reissued: The plan sheet is re-issued and reflects the following:

- added general note 6 for clarification regarding reference to Existing P-154 labels shown in the section views.

Remove and replace updated sheet in its entirety with the version

attached to this addendum.

Sheet 36 – Site Plan – Apron (Schedule A)

Reissued: The plan sheet is re-issued and reflects the following:

- revised layout of existing and proposed storm sewer structure layout as a result of changes to the current Southside Site Work and Grading construction project.

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 37 – Site Plan – Apron (Schedule A)

Reissued: The plan sheet is re-issued and reflects the following:

- updated limits of proposed underground stormwater detention structure.
- updated storm proposed storm sewer structure layout.

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 39 – Site Paving Details

Reissued: The plan sheet is re-issued and reflects the following:

- Added manhole jointing details.

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 40 – Site Details

Reissued: The plan sheet is re-issued and reflects the following:

- updated tie down anchor detail notes,
- added typical bollard layout detail to go with the typical channel weld details.

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 41 – Spot Elevation and Jointing Plan

Reissued: The plan sheet is re-issued and reflects the following:

- revised layout of storm sewer casting location layout and spot

elevations as a result of changes to the current Southside Site Work and Grading construction project and resulting changes to drainage design for the South Cargo Ramp project.

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 43 – Spot Elevation and Jointing Plan

Reissued: The plan sheet is re-issued and reflects the following:

- revised layout of storm sewer casting location layout and spot elevations.

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 44 – Spot Elevation and Jointing Plan

Reissued: The plan sheet is re-issued and reflects the following:

- revised existing conditions line work.

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 47 – Grading and Drainage Plan

Reissued: The plan sheet is re-issued and reflects the following:

- revised layout of existing and proposed storm sewer system as a result of changes to the current Southside Site Work and Grading construction project.
- updated proposed contours in association with revised drainage plan.
- updated earthwork balance table.

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 48 – Grading and Drainage Plan

Reissued: The plan sheet is re-issued and reflects the following:

- revised layout of proposed storm sewer system
- updated proposed contours in association with revised drainage plan.
- updated earthwork balance table.

Remove and replace updated sheet in its entirety with the version

attached to this addendum.

Sheet 50 – Grading and Drainage Details

Reissued: The plan sheet is re-issued and reflects the following:

- updates have been made to the Structure Data Table.

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 51 – Grading and Drainage Details

Reissued: The plan sheet is re-issued and reflects the following:

- updates have been made to the Bedding and Backfill Notes.

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 60 – Drainage Plan and Profile

Reissued: The plan sheet is re-issued and reflects the following:

- The drainage design has been updated based upon changes to the current Southside Site Work and Grading construction project.

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 61 – Drainage Plan and Profile

Reissued: The plan sheet is re-issued and reflects the following:

- The drainage design has been updated.

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 66 – Fencing Plan

Reissued: The plan sheet is re-issued and reflects the following:

- some of the labels identifying the fence section have been updated.

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 67 – Fencing Plan

Reissued: The plan sheet is re-issued and reflects the following:

- some of the labels identifying the fence section have been updated.

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 68 – Fencing Details

Reissued: The plan sheet is re-issued and reflects the following:

- a detail was added for Security Fence Without Wildlife Deterrent.

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 75 – Airfield Electrical Demolition Plan 1 of 3

Reissued: The plan sheet is re-issued and reflects revised circuiting, callout clarifications, and changes to notes. Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 76– Airfield Electrical Demolition Plan 2 of 3

Reissued: The plan sheet is re-issued and reflects revised circuiting, callout clarifications, and changes to notes. Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 77 – Airfield Electrical Demolition Plan 3 of 3

Reissued: The sheet is re-issued and reflects revised circuiting, callout clarifications, and changes to notes. Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 78 – Airfield Lighting and Signage Plan 1 of 3

Reissued: Entire sheet re-issued to include revised circuiting and clarification of callouts. Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 79 – Airfield Lighting and Signage Plan 2 of 3

Reissued: Entire sheet re-issued to include revised circuiting and clarification of callouts. Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 80 – Airfield Lighting and Signage Plan 3 of 3

Reissued: Entire sheet re-issued to include revised circuiting and clarification of callouts. Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 81 – Duct Bank Plan and Profiles

Reissued: The plan sheet is re-issued and reflects the following:

- additional information provided in profile view for duct bank grade break locations.

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 87 – Duct Bank Plan and Profiles

Reissued: The plan sheet is re-issued and reflects the following:

- additional information provided in profile view for duct bank grade break locations.

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 88 – Duct Bank Plan and Profiles

Reissued: The plan sheet is re-issued and reflects the following:

- additional information provided in profile view for duct bank grade break locations.

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 89 – Duct Bank Plan and Profiles

Reissued: The plan sheet is re-issued and reflects the following:

- additional information provided in profile view for duct bank grade break locations.

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 90 – Duct Bank Plan and Profiles

Reissued: The plan sheet is re-issued and reflects the following:

- additional information provided in profile view for duct bank grade break locations.

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 91 – Duct Bank Plan and Profiles

Reissued: The plan sheet is re-issued and reflects the following:

- additional information provided in profile view for duct bank grade break locations.

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 92 – Duct Bank Plan and Profiles

Reissued: The plan sheet is re-issued and reflects the following:

- additional information provided in profile view for duct bank grade break locations.

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 93 – Duct Bank Plan and Profiles

Reissued: The plan sheet is re-issued and reflects the following:

- additional information provided in profile view for duct bank grade break locations.

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 94 – Duct Bank Plan and Profiles (Schedule B)

Reissued: The plan sheet is re-issued and reflects the following:

- additional information provided in profile view for duct bank grade break locations.

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 95 – Duct Bank Plan and Profiles (Schedule B)

Reissued: The plan sheet is re-issued and reflects the following:

- additional information provided in profile view for duct bank grade break locations.

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 96 – Duct Bank Plan and Profiles (Schedule B)

Reissued: The plan sheet is re-issued and reflects the following:

- additional information provided in profile view for duct bank grade break locations.

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 98 – Electrical and Communication Details

Reissued: The plan sheet is re-issued and reflects the following:

- updated Section “A-A” details to reflect correct pavement section depth

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 101 – Electrical and Communication Details

Reissued: The plan sheet is re-issued and reflects the following:

- Removal of cable trench detail

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 101A – Airfield Electrical Notes

Added: Plan Sheet Airfield Electrical Notes is added to the plan set.

Sheet 102 – Electrical and Communication Details

Reissued: The plan sheet is re-issued and reflects the following:

- Added 2-way non-encased duct bank detail and 1-way non-encased duct bank detail

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 110 – Utility Plan

Reissued: The plan sheet is re-issued and reflects the following:

- Revised meter and RPZ backflow preventer enclosure

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 111 – Utility Plan

Reissued: The plan sheet is re-issued and reflects the following:

- Revised meter and RPZ backflow preventer enclosure

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 112 – Water Line Plan and Profile

Reissued: The plan sheet is re-issued and reflects the following:

- Revised water line profile length/material/slope and added elevation callouts

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 113 – Fire Protection Line Plan and Profile

Reissued: The plan sheet is re-issued and reflects the following:

- Revised meter and RPZ backflow preventer enclosure information

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 116 – Water Service Line Details

Reissued: The plan sheet is re-issued and reflects the following:

- Updated water service line details

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 117 – Water Service Line Details

Reissued: The plan sheet is re-issued and reflects the following:

- Updated water service line details
- Added meter and RPZ backflow preventer enclosure details

Remove and replace updated sheet in its entirety with the version

attached to this addendum.

Sheet 121 – Erosion and Sediment Control Plan

Reissued: The plan sheet is re-issued and reflects the following:

- Updated existing storm sewer pipes/structures and inlet protection
- Revised grading at northwest corner of apron

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 122 – Erosion and Sediment Control Plan

Reissued: The plan sheet is re-issued and reflects the following:

- Revised grading and storm sewer infrastructure on East side of apron

Remove and replace updated sheet in its entirety with the version attached to this addendum.

Sheet 122A – Topsoil Plan

Reissued: The plan sheet is added and reflects the following:

- Existing topsoil locations and depths for topsoil stripping to be used and stockpiled

Volume 2 of 2 Roadway

Sheet 168 – Signing and Payment Marking Plan No. 3.2 Roundabout

Reissued: The plan sheet is re-issued and reflects updates to the roundabout signage.

Sheet 104 – Salt Shed – Foundation and Framing Plan

Reissued: The plan sheet is re-issued and reflects the addition of Concrete Wall Schedule and Wall Footing Schedule and removal of detail 8.

Remove and replace updated sheet in its entirety with the version attached to this addendum.

3. Bidders RFIs

IFB Questions as of 4/8/24

1. On Schedule B – UPS Site, Pay Item No. SP-07 indicates a "Life and Safety Generator with Concrete Pad (350 kW)". There doesn't seem to be any mention of this generator within the specifications, or either plan set. Could you please provide information on the generator requested?

    a. *Refer to Addendum No. 2 added Section 263213 Engine Generator Systems Specification.*

2. Hoping you would share current plan holder list for IFB 34758 South Cargo Ramp Development @ PVD project?

    a. *Refer to Addendum No. 2 Appendices for copy of Plan Holder List as of 04-11-2024.*

3. I just wanted to check and see if there is a plan holders list for the TF Green South Cargo Ramp Development job bidding on 04/18?

    a. *Refer to Addendum No. 2 Appendices for copy of Plan Holder List as of 04-11-2024.*

4. Give the size of the project with the phasing and different bid schedules and the anticipated changed discussed yesterday, we'd like to formally request an extension for two weeks to give us time to chase down the best pricing we can.

    a. *The due date for Bids remains unchanged.*

5. There is 4" x 2 tele / comm duct bank, 2" x 2 tele / comm duct bank and 2" x 2 electrical duct bank to be installed on the cargo ramp. I do not see any pay items listed on Schedule A bid form. How are these items paid for?

    a. *Bid Schedule A has been updated to include pay items for the above referenced items. Refer to Addendum No. 2 reissued Bid Schedule A.*

6. If all work on the Cargo Ramp is FAA specification for what is pay item #3 on schedule A bid form?

    a. *Bid Schedule A has been updated to remove MST-03 State of Rhode Island Dept of Transportation Standard Spec. Refer to Addendum No. 2 reissued bid schedule A.*

7. Plan set #1 sheet 51 detail for pipe backfill states to use granular fill under pavements to subgrade, can the existing material be used as backfill?

    a. *Yes, granular backfill material may be obtained from suitable excavated granular soil material from on site.*

8. Please provide a detail on how the electrical and tele / comm casting are set in the concrete slab.
    a. *To be addressed as apart of Addendum No. 3.*

9. Plan set #1 sheet 52 has detail for outlet structure D-SA-OCS, is outlet structure OCS-UPS-1 going to be the same detail?

    a. *No, this structure is just going to be a RIDOT 4' X4' Square Manhole. Refer to Structure Data Table in revised Sheet 50 Grading and Drainage Details.*

10. Please provide Warwick Water standard details.

    a. *The water details reflected in the plans have been coordinated with Warwick Water.*

11. Schedule B pricing item #36 is for 2" HDPE water line plan set #1 sheet #112 shows it as 3" IIDPE please clarify.

    a. *Refer to Addendum No. 2 reissued Vol 1 Plan Sheet 113 Water Line Plan and Profile. The water line shall be 2".*

12. Plan set #1 sheet 113 a curb stop connection for the 6" DI water line, should this be a wet tap?

    a. *Refer to Tapping Sleeve and Valve detail on Vol 1 Plan Sheet 117 Water Service Line Details.*

13. Plan set #1 sheet 113 shows a meter pit for the 6" DI water line detail on sheet 116 show a meter pit with copper piping, please provide a detail for the 6" line.

    a. *Refer to Addendum No. 2 reissued Vol 1 Plan Sheet 117 Water Service Line Details for hot box with meter and check valves.*

14. Schedule B pricing item #49 Bioretention Basin, section DX-791 basis of payment states that excavation is included in this item. Please clarify limits of excavation to be carried under this item, or is all the excavation for the basin paid under bid item #28 earth excavation?

    a. *Refer to Addendum No. 2 reissued Specifications DX-791.02 and DX-791.03. Any excavation related to the bioretention basin shall be measured and paid with Item #28 Unclassified Excavation.*

15. The dry swale is paid under Schedule C pricing item #36 infiltration basin, section DX- 751 basis of payment states that excavation is included in this item. Please clarify limits of excavation to be carried under this item, or is all the excavation for the basin paid under bid item #18 earth excavation?

    a. *The excavation for the swale is paid for under Item #18-Earth Excavation. The excavation for the installation of the Bioretention soil is paid for under Item #36-Infiltration Basin and includes all incidentals and associated work.*

16. Certification of bidding requirements section 00300-1 T, financial statements, are these to be turned in with the bid?

    a. *Please refer to page 00100-8 section XI. CONTRACTOR QUALIFICATIONS.*

17. Is there a specification on what is required for the engineer's field office? I cannot seem to find it.

    a. *Refer to Addendum No. 2 added Supplemental Specification MST-05 Field Office.*

18. Schedule D pricing item #14 Compost Filter Sock has a quantity LF 2120 LF, plans do not show any Compost Filter Sock. Plans provide location for this work.

    a. *Please refer to RIDOT Standard Specifications section 206. The exact locations should be determined in the field and as required by the contractor's means, methods and construction sequence and activities.*

19. Schedule D pricing item #64 Handholes, #65 Pull Boxes, and #68 quantities on bid form do not match what is shown on plan sheet 63, please verify these quantities.

    a. *Item #64 includes replacement quantities for the handholes associated with the relocated streetlights and one new hand hole for the signal all of which are shown on the plans. A contingency quantity of one is also included. Item #65 is included as a contingency to be used as needed to accommodate connections based on actual field conditions. Item #68 is included as a contingency to be used as needed to accommodate the installation of conduit at the intersection improvements and Salt Shed area. The contractor will be paid for the actual quantity actually installed, complete in place and accepted by the Engineer. Unused quantity will not be considered for payment.*

20. Can flaggers be used for traffic control instead of police for the intersection and roundabout work?

    a. *Flaggers for the traffic control is acceptable. Flaggers shall be coordinated with RIAC Operations.*

21. Schedule C pricing item #21 Compost Filter Sock has a quantity of 13,000 LF this does not match what is shown on plan sheet 20 & 21, please verify this quantity.

    a. *Please refer to RIDOT Standard Specifications section 206. The exact locations should be determined in the field and as required by the contractor's means, methods and construction sequence and activities. Plan sheets show the suggested location of the compost filter sock.*

22. Detail for RIAC Mini Power Zone and IT Pedestal. Is that detail related to Item No. SP-06a Secondary Electric Distribution Cabinet on Concrete Pad?

    a. *No Detail is for LDP-1 MPZ and IT Pedestal only.*

23. Where does the power come from to feed this, and how far away is that source.

    a. *Location will be determinate by Utility Provider, utility will provide primary wiring to the pad mount transformer, the contractor is responsible for the concrete pad for the service transformer as well as all secondary wiring.*

24. Padmount transformer shown on the drawings. Is that Utility Company supplied? If contractor supplied, will need size and specification.

a. *Transformer provided by Utility company.*

25. MPZ-1. Drawing 106 indicates a 15KVA transformer to drop voltage. None is shown on Drawing 100. Additionally, there is no specification for this transformer.

    a. *Refer to Transformer and Panel board specification.*

26. Lighting Contactor Cabinet. Need detail and one-line diagram. There is no information as to what is inside that cabinet.

    a. *Refer to Vol 1 Plan Sheet 101 for wiring diagram / Detail.*

27. PMAS Cabinet. What goes inside that. Need specification for cabinet.

    a. *To be addressed as apart of Addendum No. 3.*

28. Drawing 100 has a detail depicting a small rack with only the MPZ-1 panel on it. Where is that being used on this project?

    a. *Used for the gate opener and receptacles at common use gate entrance on the east side of the site, station 449+95.5 Line M Keynote #9 in sheet 83.*

29. Pay Item SP06b. Is that the same as SP-06a?

    a. *Both secondary cabinets are to be installed on the concrete pad. However, the secondary cabinet serving RIAC (SP-06a) will be different from the secondary cabinet serving the tenant site (SP06b). The differences between these cabinets are dependent on the power requirements of Schedule A and Schedule B.*

30. Detail for RIAC Mini Power Zone and IT Pedestal. Is that detail related to Item No. SP-06a Secondary Electric Distribution Cabinet on Concrete Pad?

    a. *No, the Secondary Cabinet is for the CT's + meter.*

31. Where does the power come from to feed this, and how far away is that source.

    a. *From utility MH to utility Pad mounted transformer at UPS Site, the utility will provide primary wiring to the pad mount transformer.*

32. Sheet 68 – Volume 2 – Please clarify how the overhead (156" x 102") sign structure mounted to existing pier is paid for.

    a. *Please see Addendum for updated plans showing this as a ground mounted sign.*

33.

- Flow rate
- Peak flow
- Model size
- Pipe size and material for inlet and outlet pipes along with elevations
- Groundwater elevation
- Loading requirements HS-20 or Airport?"

a. *To be addressed as apart of Addendum No. 3.*

34. UPS – Site Plan. Please clarify if GSE Staging lot is 4" concrete or 10" concrete pavement. Detail on Sheet 35 indicates 4" but the quantity in schedule B is listed under 10" concrete pavement.

    a. *Vol 1 Plan Sheet 38 Site Plan – UPS Facility (Schedule B) delineates by hatch pattern between Light Duty Concrete Pavement (aka 10" concrete pavement) and 4" Concrete Pavement. Vol 1 Plan Sheet 35 Typical Sections and Site Details reflects a Light Duty GSE Pavement section (aka 4" concrete pavement) and a Light Duty Concrete Pavement (aka 10" concrete pavement). Schedule B includes a pay item for both 4" Concrete Pavement (aka Light Duty GSE Pavement) and 10" Concrete Pavement (aka Light Duty Concrete Pavement).*

35. Please clarify if Dowel Bars are required for the 4" Concrete Pavement.

    a. *Dowel Bars are not required for the 4" Concrete Pavement.*

36. Please clarify if the concrete pavement surface is to be diamond grinded and then grooved.

    a. *The concrete pavement surface is not to be diamond ground or grooved.*

37. Please clarify if dowel baskets are required for the Type C doweled contraction joints. If so what type is required?

    a. *For the 10" and 15" Concrete Pavement sections the Type C contraction joints shall be doweled. The joints for the 4" Concrete Pavement sections are not to be doweled.*

38. Schedule A – Items 8,9 and 10, please clarify that excavation of the P-209 is paid under the item and not under Item 28 – Unclassified Excavation.

    a. *The P-209 is included in the quantity and cost of items 8, 9, and 10.*

39. Item No's. L-108-5.a and L-108-5.b *Communication Conduit & Electrical Service Conduit.* What are these Items? Where are they used in the project, and what size is the conduit?

    a. *Bid Schedule B has been updated to delete the above referenced items. Refer to Addendum No. 2 reissued Bid Schedule B.*

IFB Questions as of 4/9/24 @2:00pm

40. Item No. T04.6915 Stranded Copper Conductor 600V Insulation. What size is the conductor? Where is it used? Is it a ground?

a. *Please refer to the RIDOT Standard detail 18.3.2 included in the plan set and as required by electrical code.*

41. Please provide additional information as requested below:

1. Please identify which pay item number the Aruba data switches in section 272000 should be carried as in the schedule prices bid form.

    a. *To be addressed as apart of Addendum No. 3.*

2. Are Pay items 97-106 to be priced and fully installed and terminated in place?

    a. *To be addressed as apart of Addendum No. 3.*

3. Please identify the pay item location for the CAS 1-10 box and equipment at each pole mounted camera location.

    a. *To be addressed as apart of Addendum No. 3.*

4. Pertaining to question 3, there are 3 types of CAS 1-8 that are typical, but 9 and 10 include added items this should make them separate line items.

    a. *To be addressed as apart of Addendum No. 3.*

5. Per specification section 281300 Part 2 2.1 B
   B.
   Provide software upgrade to the most recent version of provided system including all patches, versions, and changes for this specific facility. All software licensing shall be provided by the vendor, to include but not limited to door con machines, device mapping, system integration, camera alarm linking, etc.

   Please identify the following:
   - current version of the C-Cure access control system installed.
   - Quantity of licensed doors in system / quantity of currently installed doors in system.
   - Is there a current support agreement in place for the access control?
   - Who is the current vendor for the access control system? If they hold the support agreement they may be required to provide the software upgrade.

   a. *To be addressed as apart of Addendum No. 3.*

6. Please provide a replacement part number for the card reader as the RK40 has been discontinued.

    a. *To be addressed as apart of Addendum No. 3.*

42. Would Musco Lighting be considered an approved Alternate for the High Mast lighting?

    a. *Light Fixtures equivalent to those called for in the Light Fixture Schedule are acceptable.*

43. What are the light level requirements for the high mast lighting?

    a. *Light level shall be IES RP-37-20.*

44. Are there any glare control requirements or concerns.

    a. *Yes, refer to the light fixture schedule on Vol 1 Plan Sheet Light Pole Details and Schedule.*

45. Will point by point photometrics for the high mast lighting be provided?

    a. *Yes, as part of the Issued for Construction Plans to be issued to the contractor awarded the construction contract.*

46. Special Reinforced Panels – Sheet 53. The detail is for a15" thick slab. Does this detail apply to the 4" and 10" thick slabs?

    a. *The referenced detail applies to the 15" thick slab and does not apply to the 4" and 10" thick slabs.*

47. Please provide additional information as requested below:
    1. Please identify how the pay item will work when the form calls out less than the required quantity needed for the line.
        - For example, line 99 Pay item 271526 calls for 3575' of 24 strand fiber.
            - The run from the building IDF to the PMAS01 is 3575' but the drawing indicates 3 of these runs not just 1.
            - Add the run from South FODS cabinet to CMH 105 and you have an additional 1225'
        - This gives me a total footage of 11,700'

    2 Drawings are scaled at 1" = 50' and 1" = 100' but they don't show the CMH connections as a continuous pathway in any drawing and miss a few CHM numbers in the multipage layout. Can a single continuous pathway be identified in the drawings? I have looked at E drawings for a pathway start to end and I don't find one anywhere.

    a. *To be addressed as apart of Addendum No. 3.*

48. Provide clear line delineating between Schedule A and Schedule B, plans overlap, specifically with drainage and utilities.

    a. *Refer to Addendum No. 2 reissued Vol 1 Plan Sheet 50 Grading and Drainage Plan. A column is added to the Structure Data Table to note the appropriate bid schedule for each structure.*

49. Several utilities are planned to be installed below the mound and sound wall. Provide approved Southside Grading wall design so we can determine how to get under the mound and wall or provide method to get under. No carrier pipes are shown on the drawings.

a. *Utility carrier pipes are being installed as part of the current PVD Southside Site Work and Grading construction project. The location, depth, and size have recently been coordinated between the two projects. The location, depth, and sizes have been incorporated as part of South Cargo Ramp Vol 1 plans reissued as part of Addendum No. 2.*

50. Should water service be referencing Warwick Water Authority?

    a. *When CHA coordinated with Warwick Water representative for the water line design, CHA was informed to use Kent County Water standard details. CHA has revisited the design with Warwick Water. Any reissued water details as part of Addendum No. 2 are as a result of the additional coordination.*

51. Water service on drawings shows 3-inch HDPE while the bid form shows 2-inch HDPE. Which is correct?

    a. *Refer to Addendum No. 2 reissued Vol 1 Plan Sheet 113 Water Line Plan and Profile. The water line shall be 2".*

52. What size is the existing water main in Strawberry Field Road? Is the intent to connect the firewater line via tapping sleeve and valve? Or cut in connection.

    a. *This existing water main in Strawberry Field Road is an 8". The proposed fire water line shall be connected to the existing water main via tapping sleave and valve.*

53. Provide a detail provided for hotbox with backflow preventer. Is this a 2-inch meter or 3-meter?

    a. *Refer to Addendum No. 2 reissued Vol 1 Plan Sheet 117 Water Service Line Details for the added hotbox with meter and backflow preventer. The water meter shall be 2".*

54. Provide scope and bid item for gas line. Are we responsible for E+B or for complete or is this by others?

    a. *Vol 1 Plan Sheet 120 Gas Line Plan and Profile is included for reference only. The installation of the gas line by others shall be coordinated to be installed prior the paving of the access road.*

55. Provide site plan with test pit locations. We see the test pit logs but no plan provided.

    a. *Refer to Addendum No. 2 reissued Vol 1 Plan Sheet 12, Boring Plan*

56. Provide boring logs B10-B19. Volume 1 says that "Points included in Volume 2 Plan Set" – nothing included.

    a. *Refer to Addendum No. 2 appendices for copy of Boring Logs B-10 through B-18.*

57. Are we to assume no ACM/Hazmat materials in the structures to be demolished?

a. *For the purpose of bidding assume no ACM/Hazmat materials are in the structures to be demolished.*

58. Salt shed – provide top of footing elevation (it says to refer to plan, but nothing is shown)

    a. *Refer to Addendum No. 2 reissued Vol 2 Plan Sheet 104, Salt Shed – Foundation and Framing Plan*

59. Salt shed – provide detail and extents of trench drain – nothing on plan view just on section – where does it drain to?

    a. *Refer to Addendum No. 2 reissued Vol 2 Plan Sheet 104, Salt Shed – Foundation and Framing Plan*

60. Salt shed – says to refer to Arch for Foundation Insulation requirements – nothing shown or provided.

    a. *Refer to Addendum No. 2 reissued Vol 2 Plan Sheet 104, Salt Shed – Foundation and Framing Plan*

61. Salt shed – what is the reinforcing the slab – nothing is called out

    a. *Refer to Addendum No. 2 reissued Vol 2 Plan Sheet 104, Salt Shed – Foundation and Framing Plan*

62. Salt shed - Please confirm that Pay Item 133419 is the Salt Shed shown on Volume 2 Sheets 103 and 104. Confirm that is intended to be a lump sum item, including all footings, concrete, electrical, etc. to provide the building complete.

    a. The item description for Bid Schedule C Prices – Additive Alternate Access Road, Item No. 7 133419 is revised to 40 x 58 Pre-engineered Metal Building with Concrete Floor. The price for this item shall be for a complete building as reflected in the plans to include footings, floor, building, electrical, etc.

63. Sheet 32 Volume 1 – Large Area is blacked out. Confirm this is correct?

    a. *The plan sheet is reissued as part of Addendum No. 2 without the blacked out view.*

64. Sheet 52 Volume 1 – Drain Block Valve. Detail refers to “Existing Drain Guard Valve (Reused)” I don’t see these being demo-ed anywhere. Is the intent for these to be brand new?

    a. *For the Drain Block Valve System Detail shown on Plan Sheet 52, all references to existing shall be deleted. The Drain Block Valves as called for on the Structure Data Table are all to be new valves to be installed with new drainage structures.*

65. Details show that catchbasins are intended to have a 3-foot minimum sump. None of the structures are called out on the structure data table or the bid form as catchbasins although several of the manhole structures have grates being installed. Are these considered to be catchbasins or manholes?

a. *The RIDOT Precast Round Catch Basin Detail shown on Vol 1 Plan Sheet 50 Grading and Drainage Details is applicable to all RIDOT 4' DIA MHs referenced in the Structure Data Table found on the same plan sheet.*

66. Provide sieve of granular pipe bedding material and backfill material. Refer to sectional details of storm sewer pipe.

    b. *Refer to Addendum No. 2 reissued Vol 1 Plan Sheet 51, Grading and Drainage Details, for revised Bedding and Backfill Notes.*

67. Provide how many StormTrap access opening manholes there are. Nothing shown on plan view. Provide casting type and specification, nothing included in specification.

    a. To be addressed as apart of Addendum No. 3.

68. Horizontal Directional Bore – specification quantities and type does not match the bid form. Provide location on drawings.

    a. To be addressed as apart of Addendum No. 3.

69. Please consider extending the time to ask questions.

    a. The question deadline remains unchanged.

70. Please consider extending the deadline for bidding.

    a. The bid date and time remains unchanged.

71. Could you please confirm the size of the existing water main that are tying the new fire service and domestic service into?

    a. *Refer to Addendum No. 2 reissued Vol 1 Plan Sheets for confirmation of the requested information.*

72. Can the existing water service be shut down for the new connection of the fire service and domestic service or does this line need to remain active 24/7?

    a. *The existing water main line shall not be shut down for the new connections.*

4. Appendices

i. Pre-bid Attendees
ii. Current Plan Holder List
iii. Pre-Bid Meeting PowerPoint Presentation
iv. Boring B10-B19 Plan and Log

RIAC would like to remind all prospective bidders/offerors that additional Addendums may be issued by RIAC until the deadline for bid submissions. As such, RIAC encourages

prospective bidders/offerors to visit www.flyri.com/riac/procurement on a frequent basis.

####END OF ADDENDUM#####

Rhode Island Airport Corporation

Pre Bid Meeting

Apri 2, 2024 @ 2:00 PM

IFB 34758 - PVD South Cargo Ramp Development

Attendee #	First Name	Last Name	Company	Title	Email Address	Phone #	Date of Visit	Initials	Badge #
1	Sophia	Narkiewicz	JR Vinagro Corp	ESTIMATOR	SNARKIEWICZ@JRVINAGROCORP.COM		4/2/2024		
2	Anthony	Mesiti	JR Vinagro Corp	Estimator	AMESITI@JRVINAGRO.COM		4/2/2024		7
3	Wayne	Clarke	JR Vinagro Corp	SENIOR EST	WCLARKE@JRVINAGROCORP.COM	401.943.7100	4/2/2024	WSC	6
4	Trent	Kellum	East Coast Construction	Estimator	trent@eastcoastconstruction.com	401-572-0272	4/2/2024	TK	11
5	Derek	Canestrari	Ferreira Construction Co., Inc.	PM	dcanestrari@ferreiraconstruction.com		4/2/2024		4
6	Edgar	Vidal	Ferreira Construction Co., Inc.				4/2/2024		
7	David	Schumacher	Ferreira Construction Co., Inc.	PM	Dschumacher@ferreiraconstruction.com		4/2/2024	DS	13, 7 ✓
8	Scott	O'Connor	J.H.Lynch	VICE PRESIDENT	SOCONNOR@JHLYNCH.COM	401 333 4200	4/2/2024	S.OC	4
9	Jason	Fiore	Ferreira Construction Co., Inc.				4/2/2024		
10	Arthur	Scothon	DiGregorio	ESTIMATOR	ASCOTHON@DIGREGORIOCORP.COM	401-602-3436	4/2/2024	AS	5-E
11	Taylor	Hammil	CHA Consulting Inc.				4/2/2024	TH	
12	Joseph	Bambra	CHA Consulting Inc.				4/2/2024		
13	Todd	Schultheis	CHA Consulting Inc.				4/2/2024	TJS	
14	Samuel	Poirier	J.H.Lynch				4/2/2024		

				Title	Email Address	Phone #	Date	Initials	Badge #
~~15~~	Edward M.	Bennett	~~KOBO Utility Construction Corp~~				4/2/2024		
16	~~Alexander B.~~ Edward	~~Corderio~~ Bennett	~~DiGregorio~~ KOBO	ESTIMATOR	edbennett24@gmail.com	508-776-8082	4/2/2024		2-E
17	Jay R.	Peters	Synet Inc	ESTIMATOR	JPETERS@SYNETINC.com	401-862-326	4/2/2024	JP	8
18	Dana A.	Caggiano	Synet Inc				4/2/2024		
19	Peter	Calcagni	Manafort Brothers Inc.	Project Exec	pcalcagni@manafortbros.com	401-265-3871	4/2/2024		9
17	Alex	Cordeiro	DiGregorio Corp.	Gen - Super.	Alex@Digregoriocorp.com	401-640-5597			5-E
18									
19									
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21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									

Current Plan Holder List

4/12/2024

Email	Customer Name	Phone Number	Firm Name
pcalcagni@manafort.com	Peter Calcagni	14013332550	Manafort Brothers
ryhall@langan.com	Ryan Hall	9735604462	Langan Engineering & Environmental Services, Inc.
amesiti@jrvinagrocorp.com	ANTHONY MESITI	4015251793	JR Vinagro
rhillman@ferreiraconstruction.com	Robert Hillman	4015196626	Ferreira Construction Co., Inc.
soconnor@jhlynch.com	Scott O\'Connor	401 333-4300	J.H. Lynch & Sons, Inc.
sales@jhlynch.com	Kelly Drolet	4013334300	J. H. Lynch & Sons, Inc.
richard@langseth.com	Richard Langseth	401 4809001	AHS
abc@gmail.com	dcc dsd	125356253	df
omajewski@gilbaneco.com	Oliver Majewski	4012485683	Gilbane Building Company
KMENARD@MJINC.COM	Karen Menard	6033248047	McFarland Johnson
tsimpson@bnpassociates.com	Travis Simpson	7203744930	BNP Associates, Inc.
snarkiewicz@jrvinagrocorp.com	Sophia Narkiewicz	4013784737	JR Vinagro
karen@riseaboveconstruction.net	KAREN PARE	4016409072	RISE ABOVE CONSTRUCTION INC
rlindsay@bentleycompanies.com	Ryan Lindsay	978-935-8477	Bentley Builders
cstearns@tricountycontractors.com	Clark Stearns	4137335189	Tri-County Contractors Supply
dmineker@pvdairport.com	Dawn Mineker	401-691-2417	RIAC
ascothon@digregoriocorp.com	Arthur Scothon	4016023436	DiGregorio Inc.
acouture@beta-inc.com	Aimee Couture	4013332382	BETA
JColapietro@riconusa.com	Joe Colapietro	4018611162	RICON
sourcemanagement@deltek.com	Source Management	2063739500	Deltek, Inc.
louis@materialconcrete.com	Louis Tomolonis	401 829 0733	Material Concrete Corp
claytoncla@yahoo.com	na na	na	na
linell.olecki@aecom.com	Linell Olecki	5703352417	AECOM
derek.hollinger@aecom.com	DEREK HOLLINGER	17178171536	AECOM
steve@eastcoastconstruction.com	Steve Bakios	401-683-5656	East Coast Landscaping & Construction, Inc.
steve@eastcoastconstruction.com	Steve Bakios	401-683-5656	East Coast Landscaping & Construction, Inc.
steve@eastcoastconstruction.com	Steve Bakios	401-683-5656	East Coast Landscaping & Construction, Inc.
gbs@bidnet.com	Kurt Bidnet	8006771997	bidnet
venkatesh@blackridgeresearch.com	Venkatesh Siva	9179937467	Blackridge Research & consulting
jrlaforge@loureiro.com	Jason LaForge	401-533-9439	Loureiro Contractros
camille.bechara@wsp.com	camille bechara	16174617284	WSP USA

Current Plan Holder List

4/12/2024

baugustus@unitedconcrete.com	Bill Augustus	15086889566	United Concrete Products
lore.siga@constructconnect.com	lorebi Siga	3236025079	ConstructConnect
anthony.digiantommaso@gza.com	Anthony DiGiantommaso	401-248-3949	GZA GeoEnvironmental, Inc.
jayalakshmil@construction.com	jaya jaya	4133767032	Dodge Data & Analytics
sourcemanagement@napc.me	Eric Johnson	302-450-1923	North America Procurement Council Inc., PBC
sourcemanagement@napc.me	Eric Johnson	302-450-1923	North America Procurement Council Inc., PBC
brian.kraft@libertymutual.com	brian kraft	6173669998	Liberty Mutual
thessa.narido@ConstructConnect.com	thessa narido	(123) 456-7890	NA
rvoccia@coscofence.com	Robert Voccia	401-641-0601	Cosco, LLC
tgarcia@csigroup.com	Terry Garcia	603-889-4163	Concrete Systems, Inc.
lore.siga@constructconnect.com	lorebi Siga	3236025079	ConstructConnect
dcaggiano@synetinc.com	Dana Caggiano	14013742795	SyNet Inc.
matt@towerconstructioncorp.com	Matthew Kapaon	4019430110	Tower Construction
estimating@koboutility.com	Malisa Fearing	5088882255	KOBO Utility Construction
hugo@keycorpconstruction.com	Hugo Key	401-783-8583	Key Corporation
jpeters@synetinc.com	JAY PETERS	4018621326	SyNet Inc
jim@waexcavating.com	Jim Marsh	401-294-2320	William Anthony Excavating
dodge.docs@construction.com	Adam Bouman	8777849556	dodge
andrew.valentino@orionengineers.com	Andrew Valentino	518-727-9584	Orion Engineers & Associates
dodge.docs@construction.com	Adam Bouman	5136663354	Company Information
dodge.bidding@construction.com	Adam Bouman	513-666-3354 ,	Adam Bouman
richard@langseth.com	Richard Langseth	4014809001	AHS
steven.vitorino@usi.com	Steven Vitorino	4132378579	Usi
steven.vitorino@usi.com	Steven Vitorino	4132378579	Usi
jbaldino@csi-ri.com	Justin Baldino	401-863-4675	Contractors Supply Inc
colin@kineticdemo.com	Colin O\'Hearn	6172037770	Kinetic Demolition & Engineering, LLC
joe.hersom@ejprescott.com	JOSEPH HERSOM	2077357723	E.J. Prescott, Inc.
josephgodino@johnrocchiocorp.com	Joseph Godino	401-949-5565	John Rocchio Corporation

Rhode Island
Airport Corporation

Rhode Island T. F. Green International Airport (PVD)

South Cargo Ramp Development

Pre-bid Meeting

PVD SOUTH CARGO RAMP DEVELOPMENT

Bid Schedule

- Deadline for submission of questions is 2:00 p.m. EDT on Tuesday, April 9, 2024
- IFB Addendum to be issued by end of day on April 12, 2024
- Sealed bids will be received by RIAC until 4:00 p.m. EDT on Thursday, April 18, 2024

Federal Aid Contract Provisions

- Wage Rates
- DBE Goal is 3.2% for Schedules A, C, and E
- Requirements for Affirmative Action

PVD SOUTH CARGO RAMP DEVELOPMENT

RIAC Provisions

- Bid Security Provisions
- Bid Summary Form
- Basis of Award – the lowest of the combined totals from base bid schedule A (Ramp), base bid schedule C (Access Road), and Additive Alternate Schedule E (Roundabout)

Contract Documents

- Specifications (pdf file)
- South Cargo Ramp Development Plans (pdf files)
  - Volume 1, Apron and UPS Site Work
  - Volume 2
    - Access Road
    - Intersection Modifications
    - Roundabout
- Sensitive Security Information (SSI) – technical specifications and plan sheets (password protected pdf file)

South Cargo Development

Project Overview:

- Southside Site Work and Grading Package (construction in progress)
- South Cargo Ramp Development (bid procurement phase in progress)
- South Cargo Tenant Development (design phase in progress)

South Cargo Tenant Development

Project Overview:

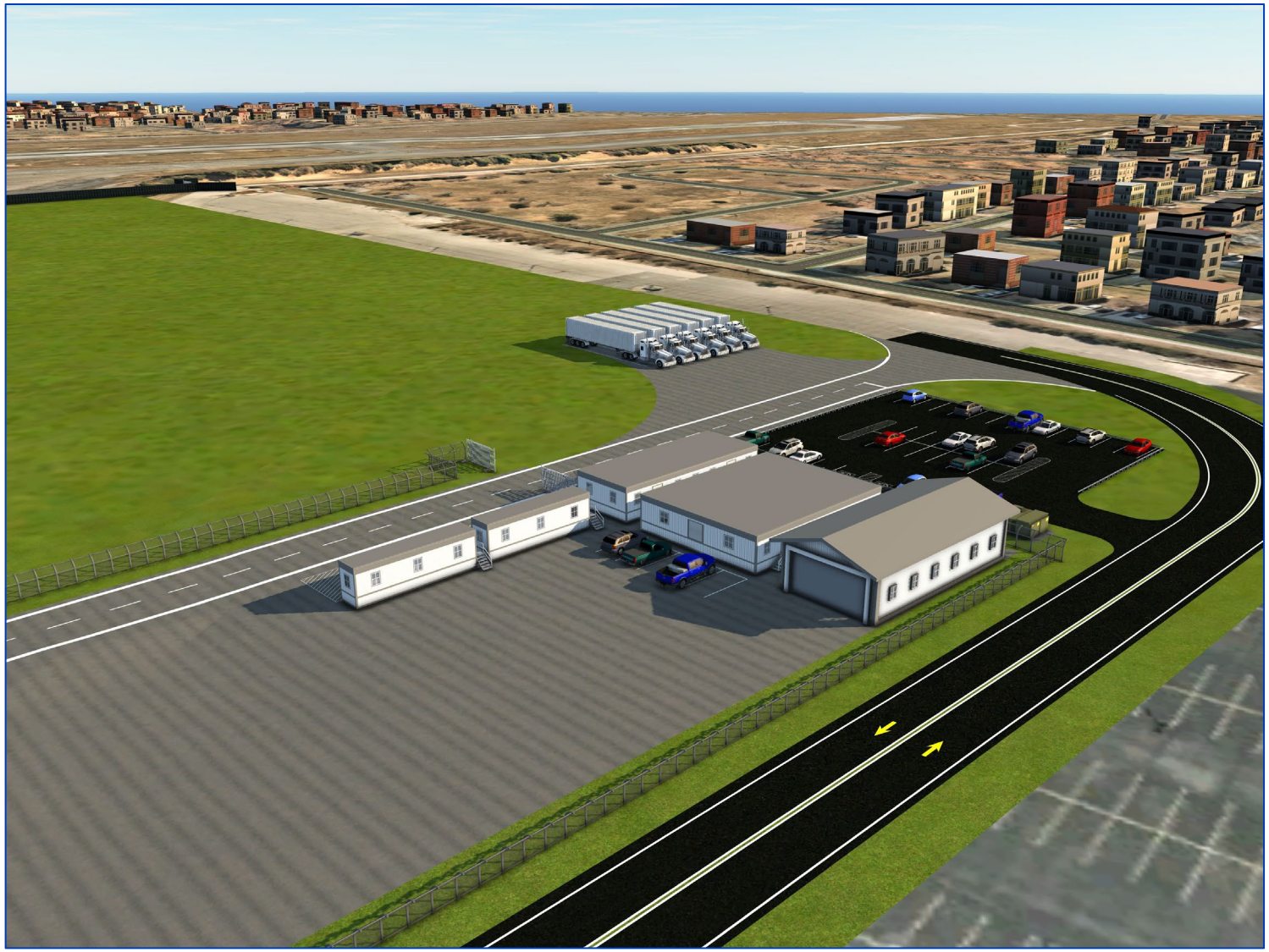
- Design scheduled to be completed by end of September 2024
- Construction Start (by others) – anticipated December 2024
- Construction Duration – anticipated 18 months
- South Cargo Ramp Construction Coordination and Cooperation Required

South Cargo Development

- Bid Schedule A – Cargo Ramp
- Part of Basis of Award
- FAA Technical Specifications Applicable

South Cargo Development

- UPS Site Work – grading, drainage, paving, utilities
- Bid Schedule B
- UPS Facilities to be procured separately by UPS including:
  - Pre-engineered metal building for Ground Support Equipment (GSE) Maintenance Bay
  - Two modular office/support buildings
  - Two storage containers
  - South Cargo Ramp Construction Coordination and Cooperation Required



South Cargo Development

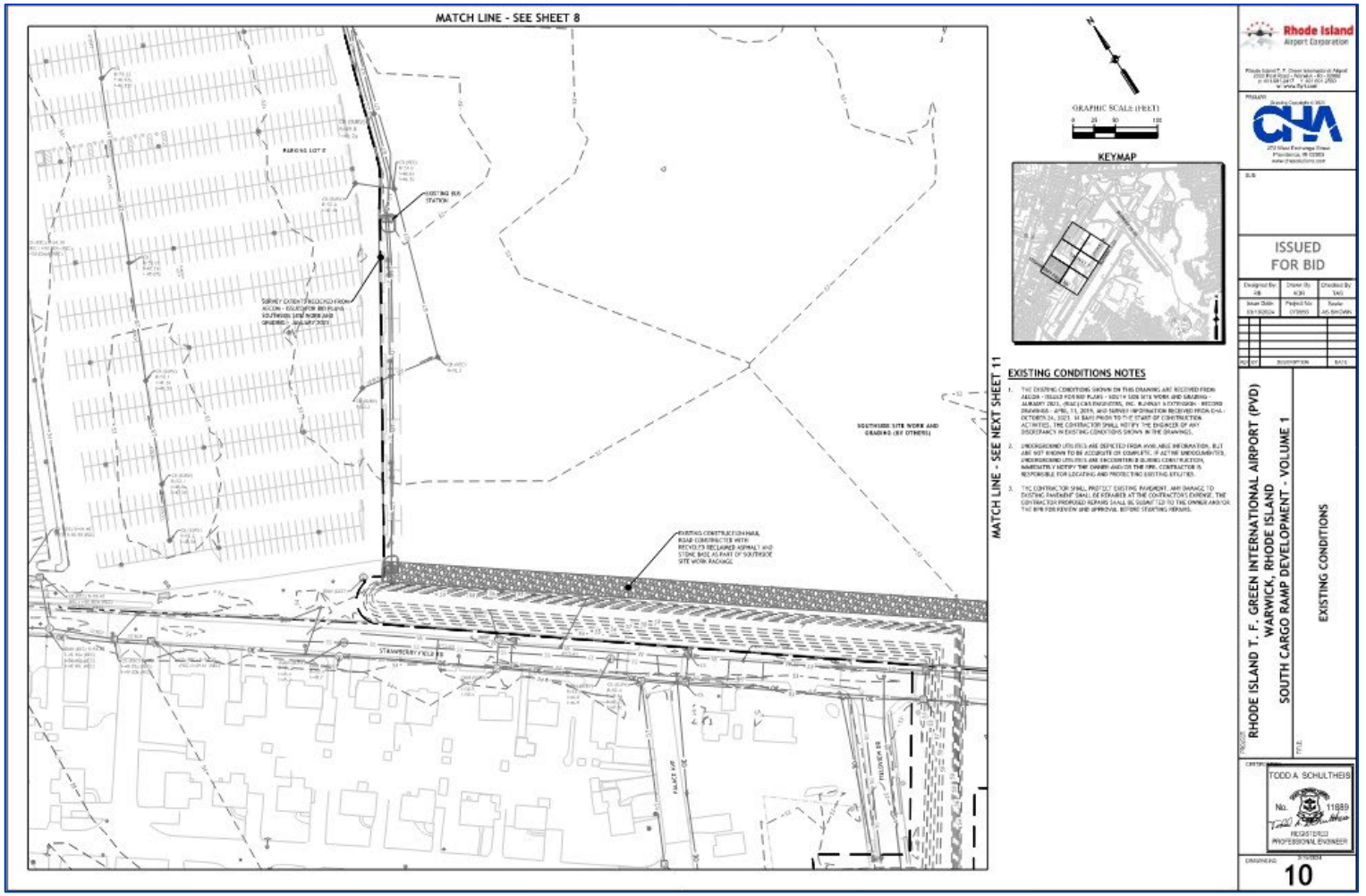
- New Cargo Access Road
- Bid Schedule C
- RIDOT Technical Specifications
- Construction Start – After Spring Break 2025 (mid April start)
- Bid Schedule C Additive Alternate – Salt Shed Site Work and Pre-engineered Building

South Cargo Development

- Bid Schedule C – Additive Alternate Salt Shed
- Bid Schedule D – Additive Alternate for Evans Avenue and Airport Connector Intersection

South Cargo Development

- Cargo Ramp and UPS Site Work Existing Conditions
  - Proposed Southside Site Work and Grading project scope reflected as existing in the South Cargo Ramp IFB plans.
  - Southside Site Work and Grading plan revisions are being coordinated with CHA which will result in some revisions to the South Cargo Ramp Vol 1 Existing Condition Plan Sheets and Drainage Plans. Plan Sheet revisions will be issued as part of IFB Addendum



Rhode Island Airport Corporation

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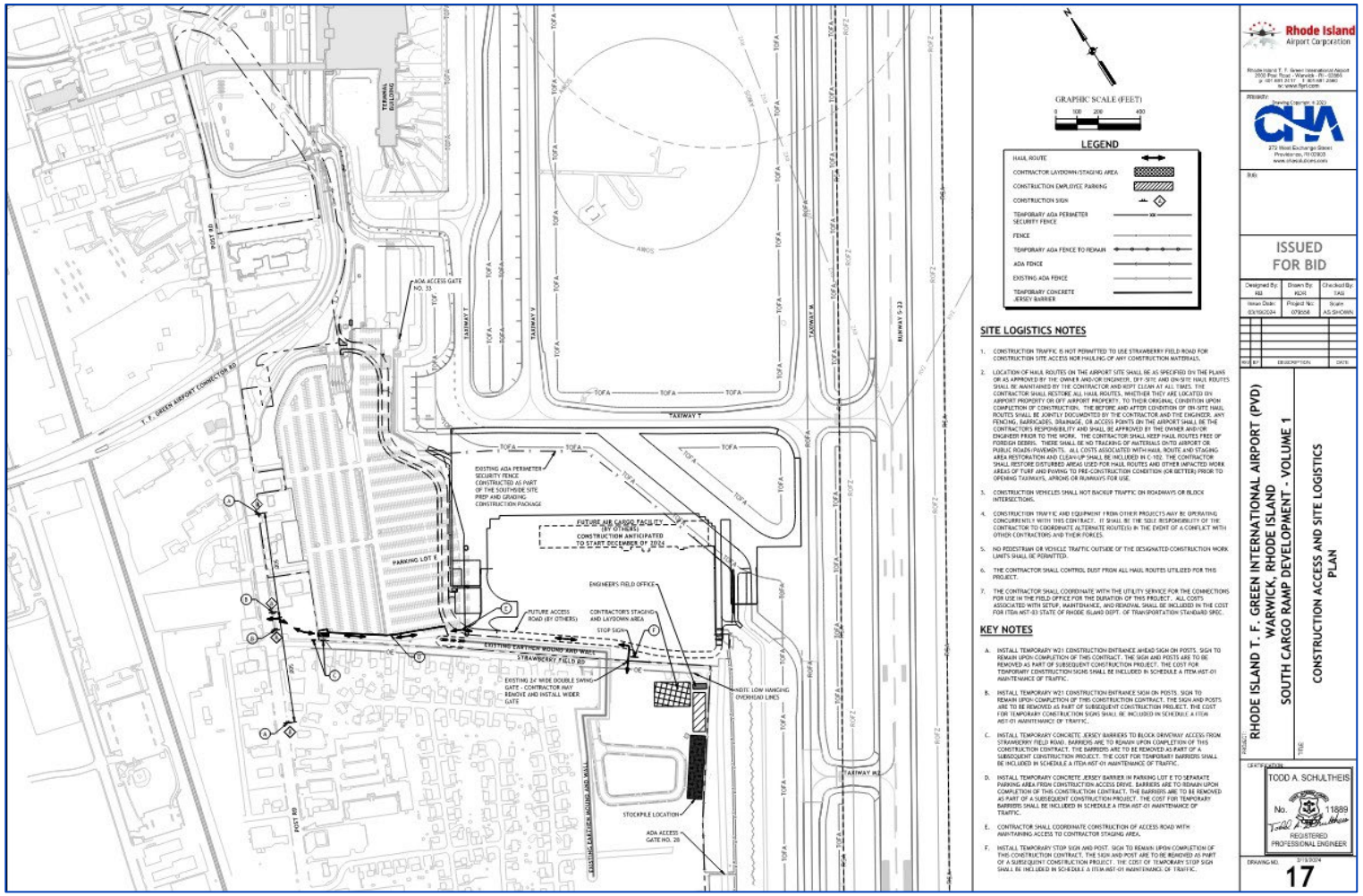
South Cargo Development

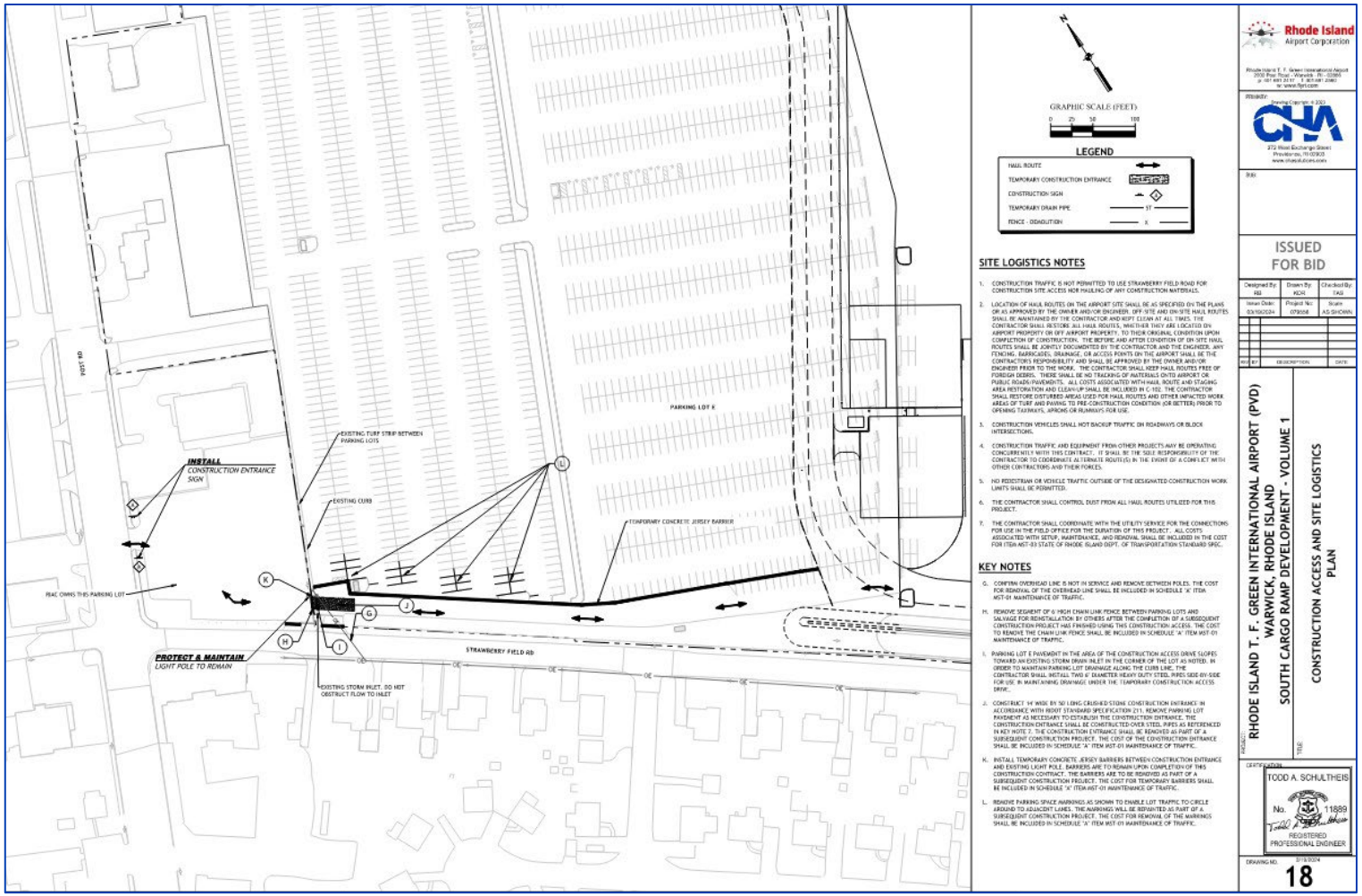
- Site Access and Logistics – Staging Area



PVD SOUTH CARGO DEVELOPMENT

South Cargo Development

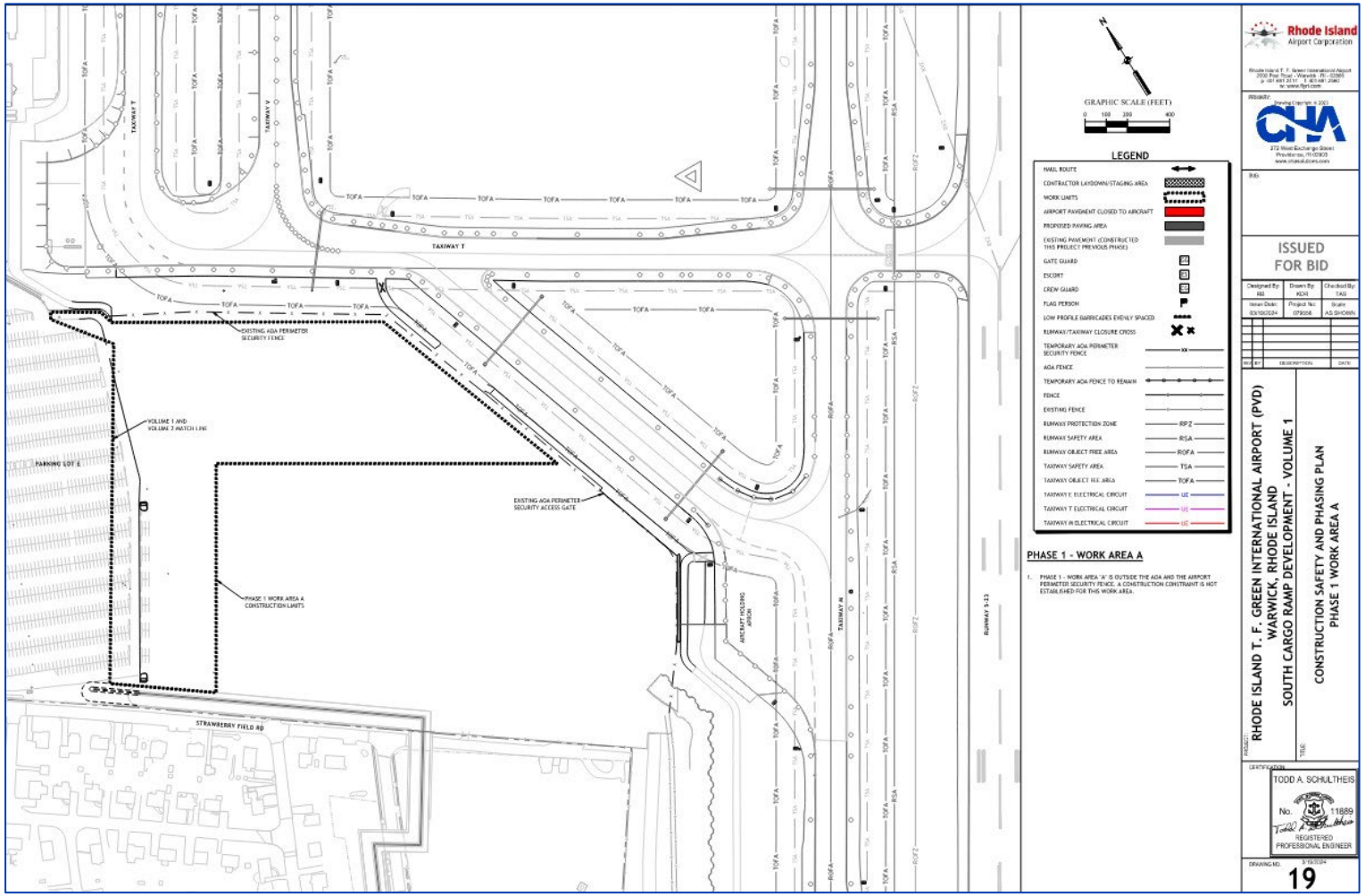
- Site Access and Logistics
  - Provisions and scope elements to be accounted for in Bid Schedule A as part of Maintenance of Traffic pay item



Rhode Island Airport Corporation

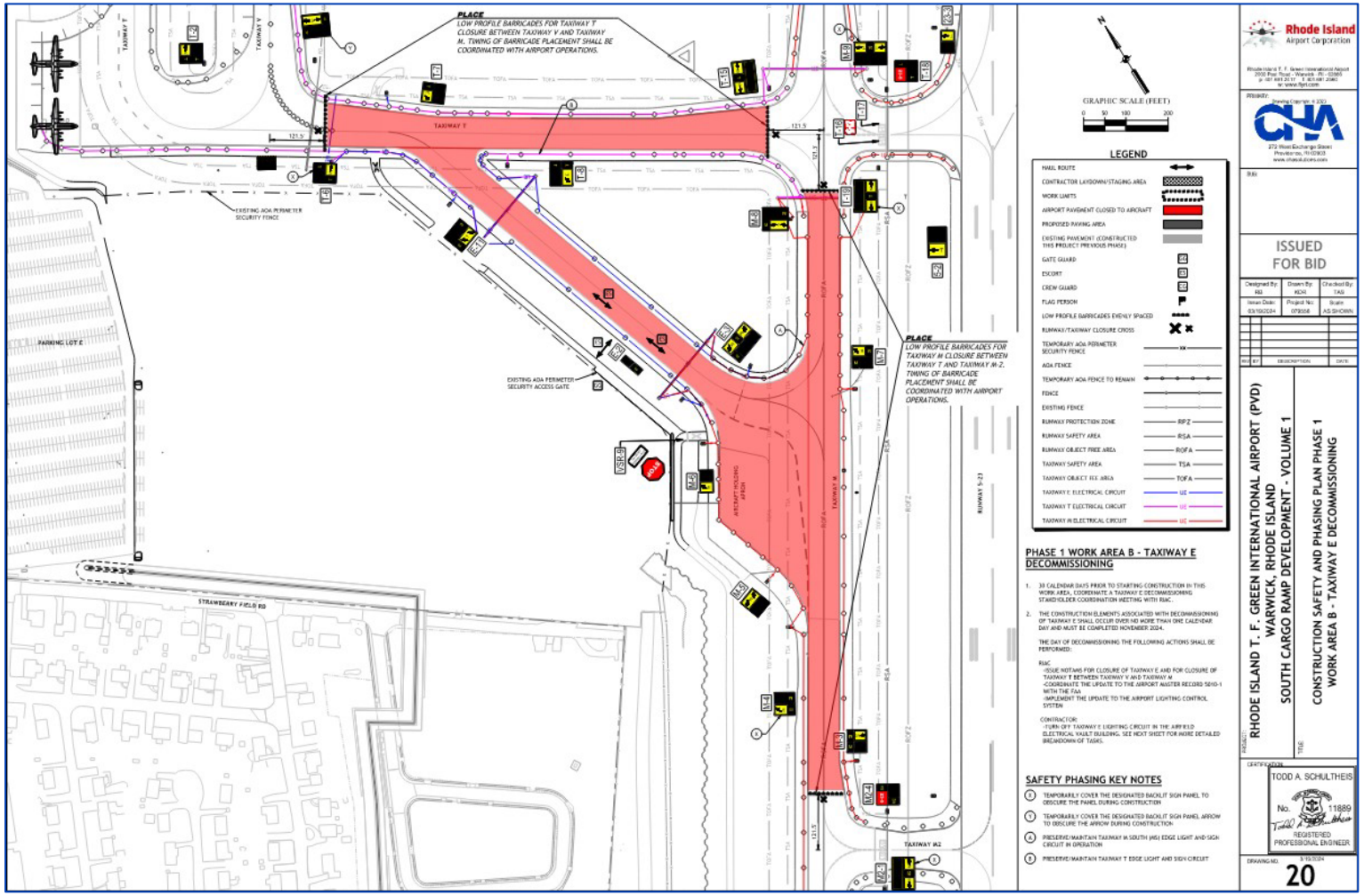
South Cargo Development

- Cargo Ramp and UPS Site Vol 1 Plans
- Phase 1 Work Area A



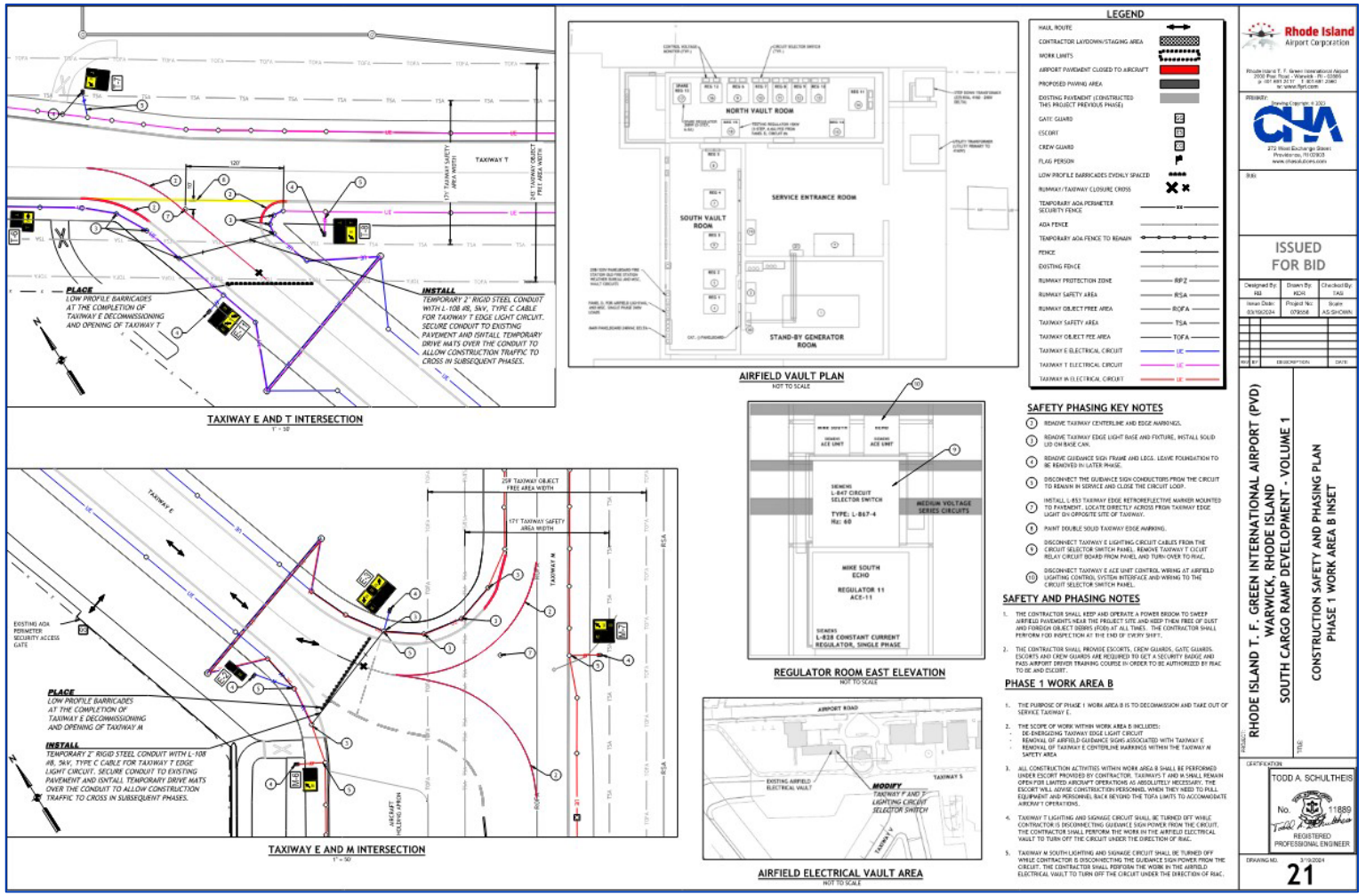
South Cargo Development

- Cargo Ramp and UPS Site Vol 1 Plans
- Phase 1 Work Area B
- Decommission Taxiway E
- Duration 24 hours
- Liquidated Damages - $4,000/day



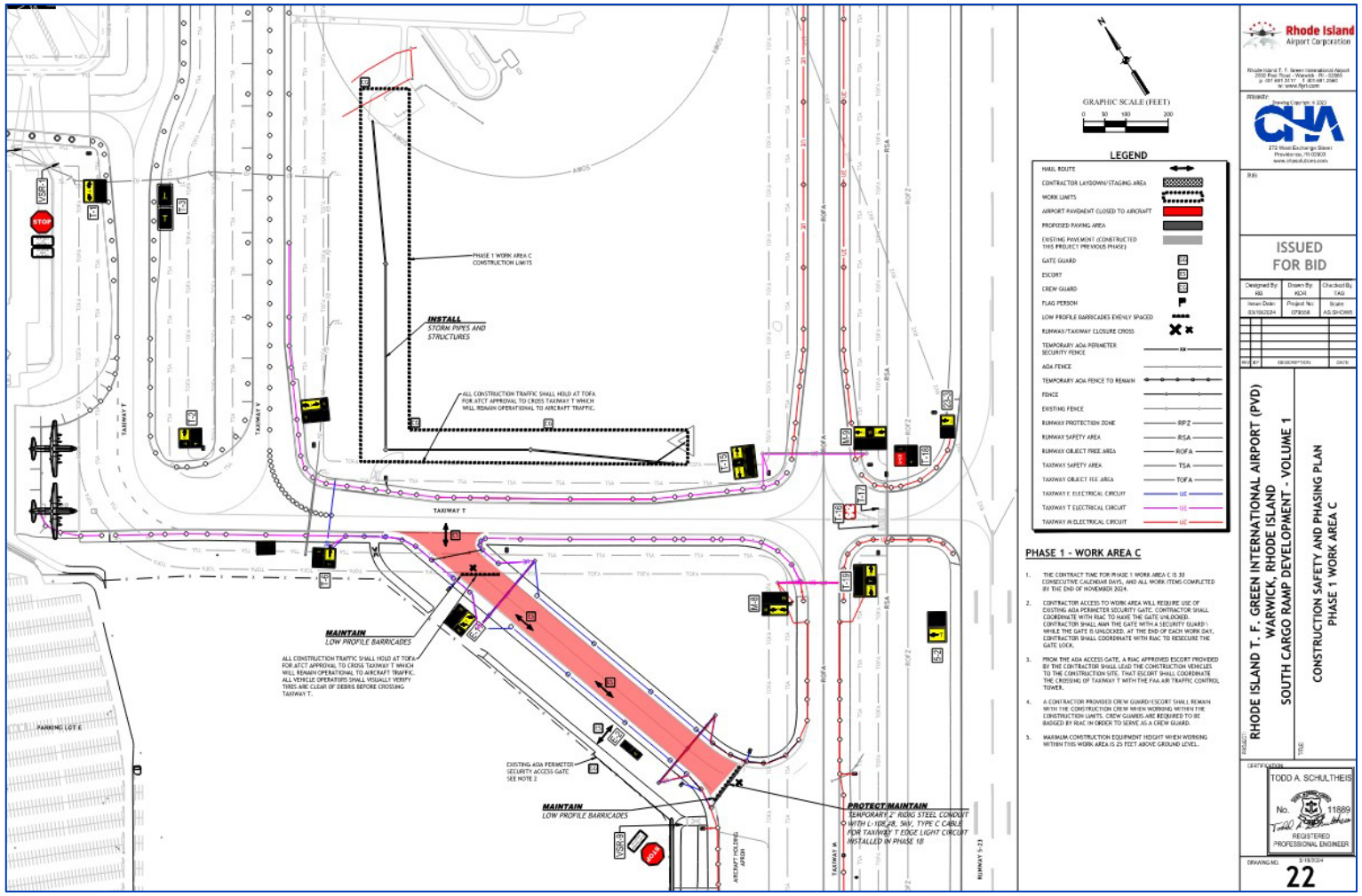
South Cargo Development

- Cargo Ramp and UPS Site Vol 1 Plans
- Phase 1 Work Area B
- Decommission Taxiway E
- Duration 24 hours
- Liquidated Damages - $4,000/day



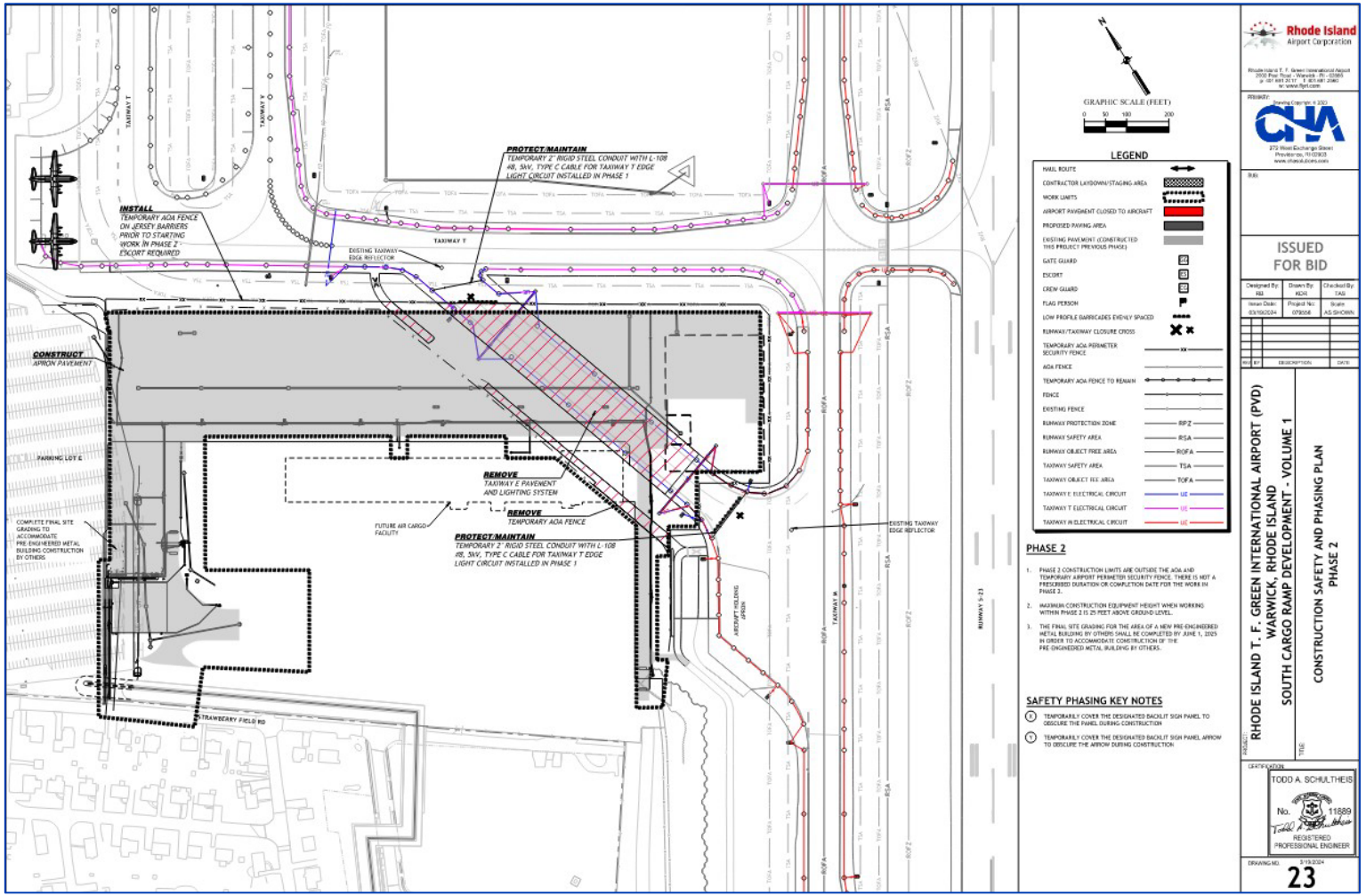
South Cargo Development

- Cargo Ramp and UPS Site Vol 1 Plans
- Phase 1 Work Area C
- Duration – up to 30 Calendar Days
- Complete by end of November 2024
- Liquidated Damages - $4,000/day



South Cargo Development

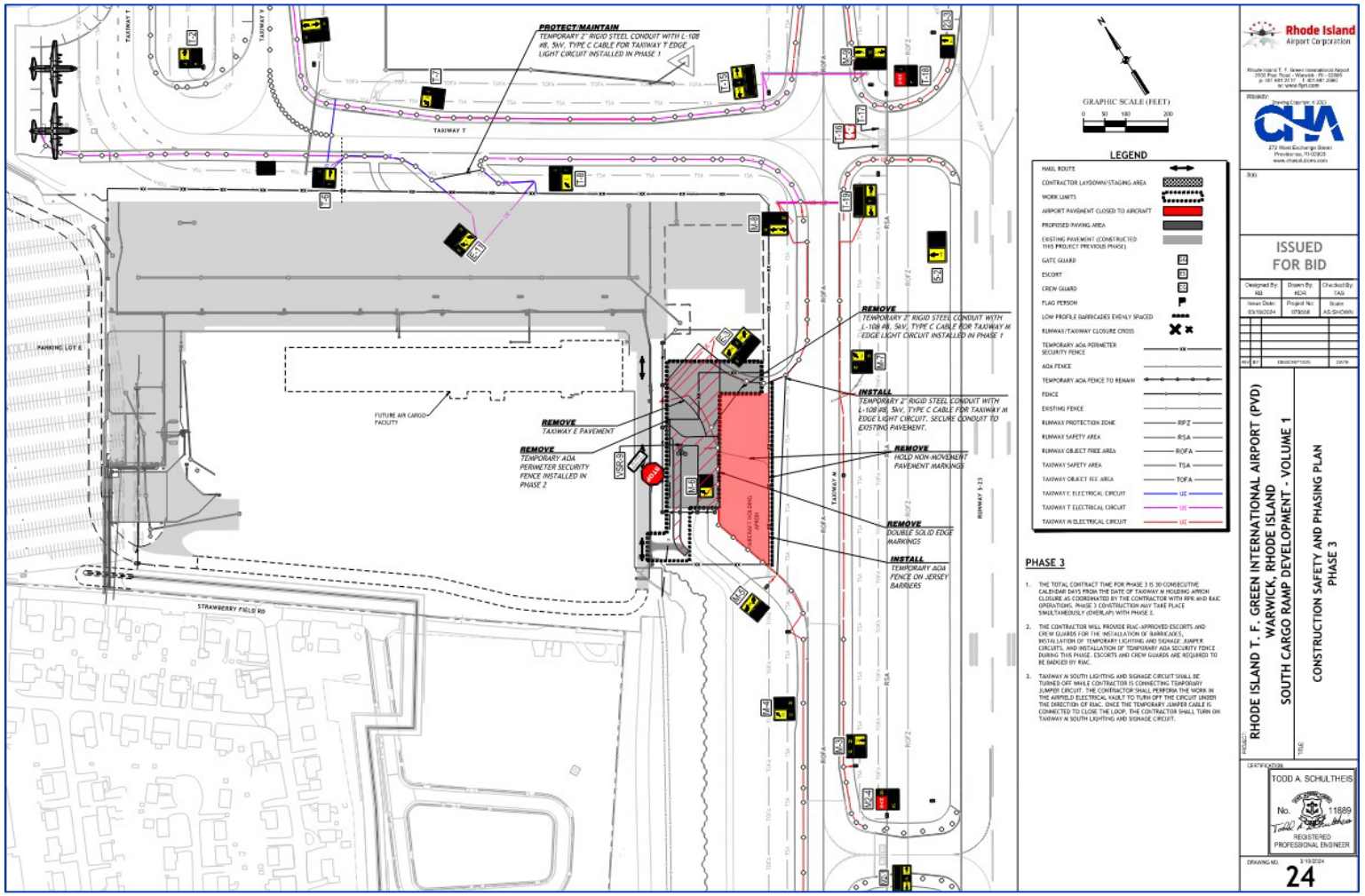
- Cargo Ramp and UPS Site Vol 1 Plans
- Phase 2



Rhode Island Airport Corporation

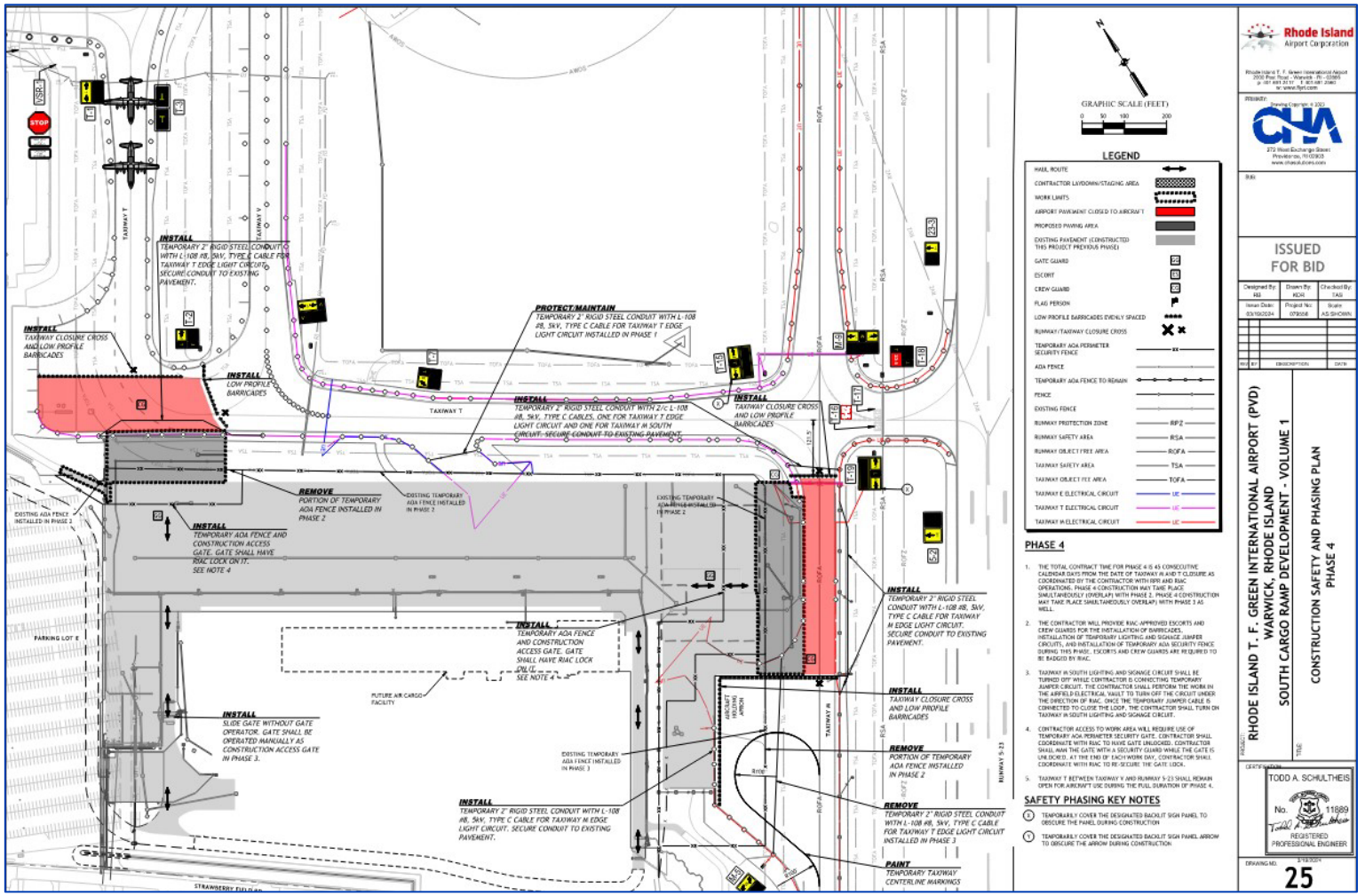
South Cargo Development

- Cargo Ramp and UPS Site Vol 1 Plans
- Phase 3
- Airfield Operational Impacts – Taxiway M Hold Apron Closure
- Duration – 30 Calendar Days
- Construction may take place simultaneously (overlap) with Phase 2
- Liquidated Damages - $4,000/day



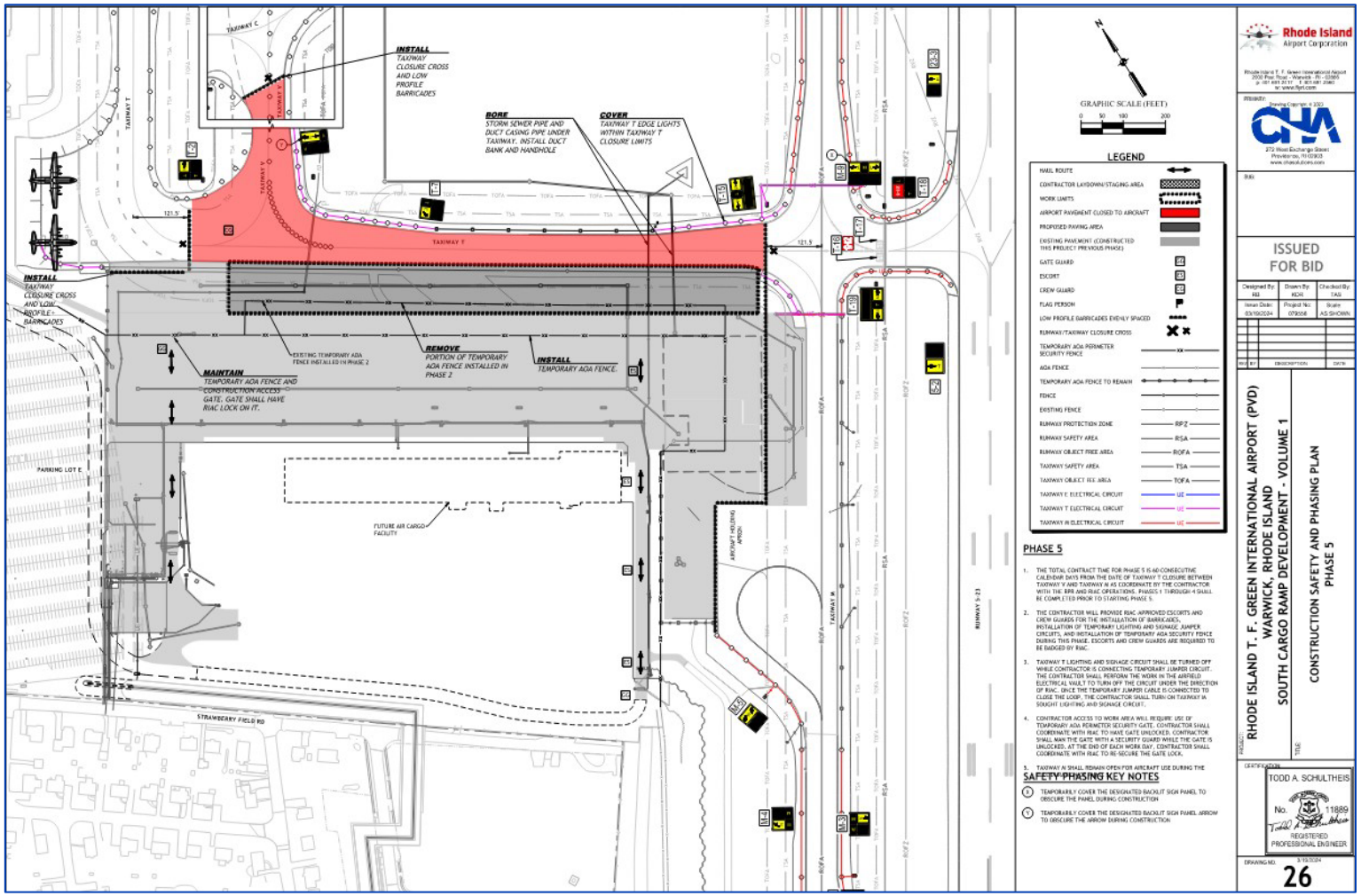
South Cargo Development

- Cargo Ramp and UPS Site Vol 1 Plans
- Phase 4
- Airfield Operational Impacts – Partial Taxiway T and M Closures
- Duration – 45 Calendar Days
- Construction may take place simultaneously (overlap) with Phase 2.
- Construction may take place simultaneously (overlap) with Phase 3.
- Liquidated Damages - $4,000/day



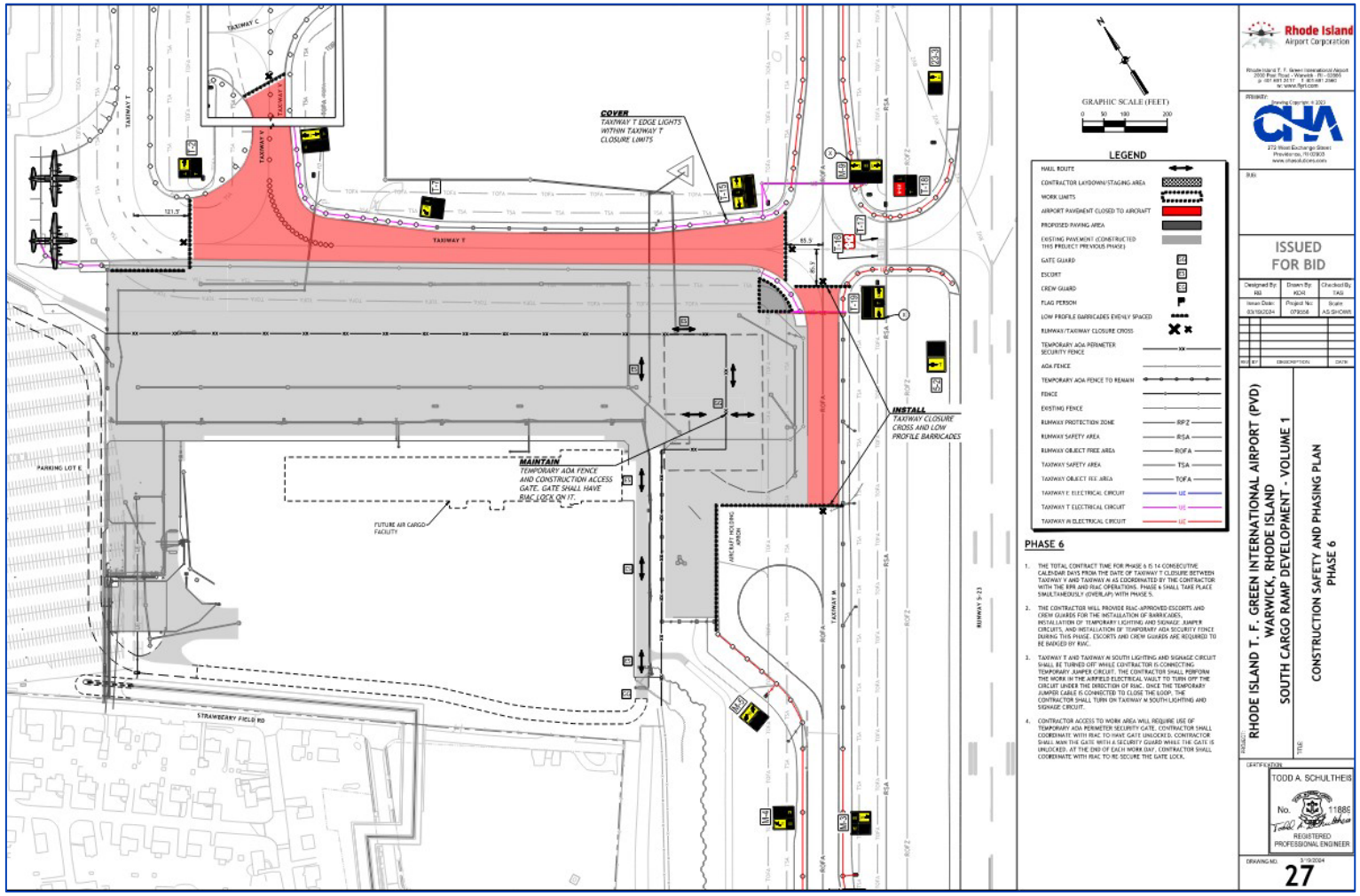
South Cargo Development

- Cargo Ramp and UPS Site Vol 1 Plans
- Phase 5
- Airfield Operational Impacts – Taxiway T Closures
- Duration – 60 Calendar Days
- May Overlap with Phase 4
- Liquidated Damages - $4,000/day



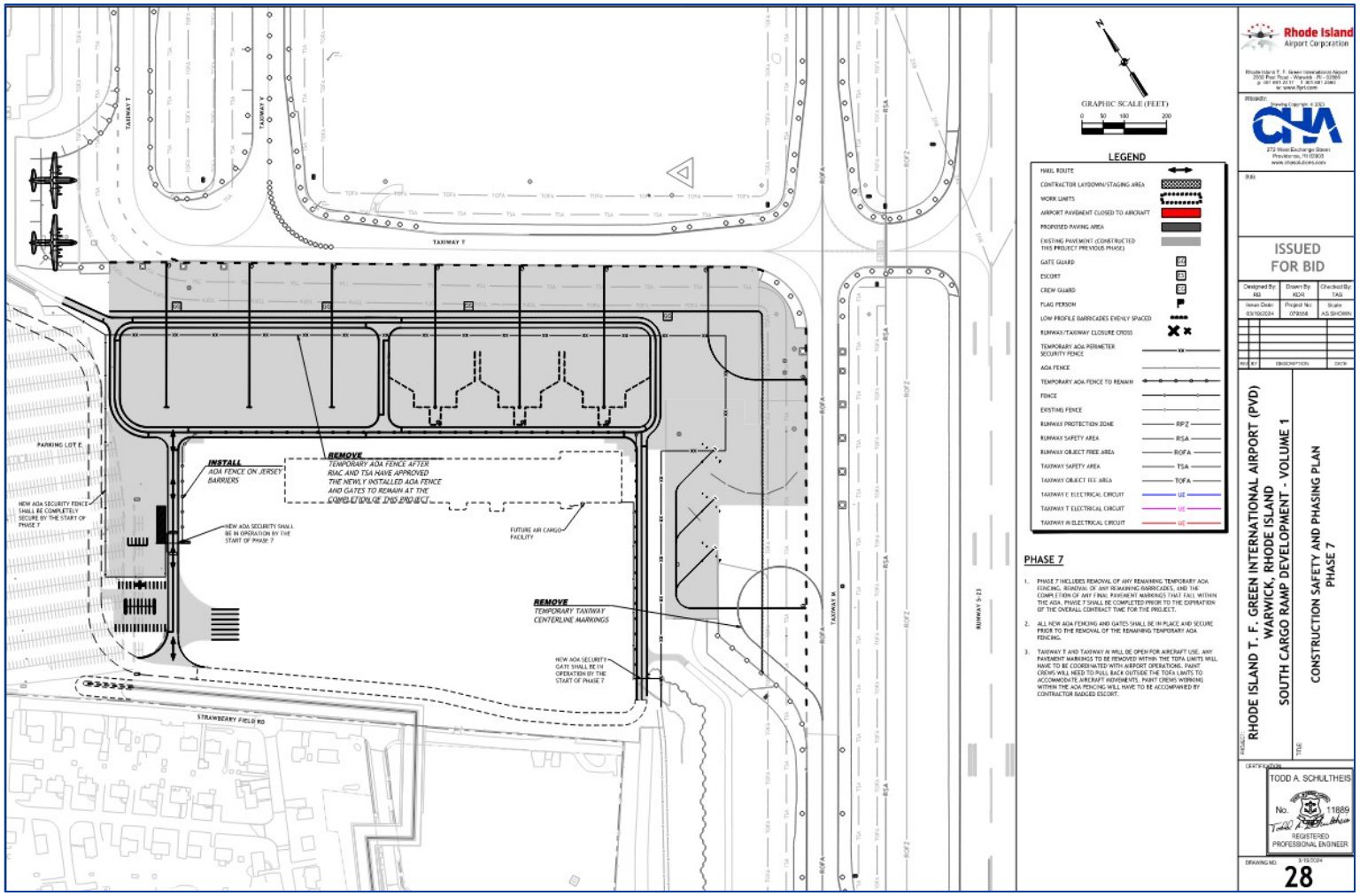
South Cargo Development

- Cargo Ramp and UPS Site Vol 1 Plans
- Phase 6
- Airfield Operational Impacts – Taxiway T and Taxiway M Closures
- Duration – 14 Calendar Days
- Overlap with Phase 5
- Liquidated Damages - $8,000/day



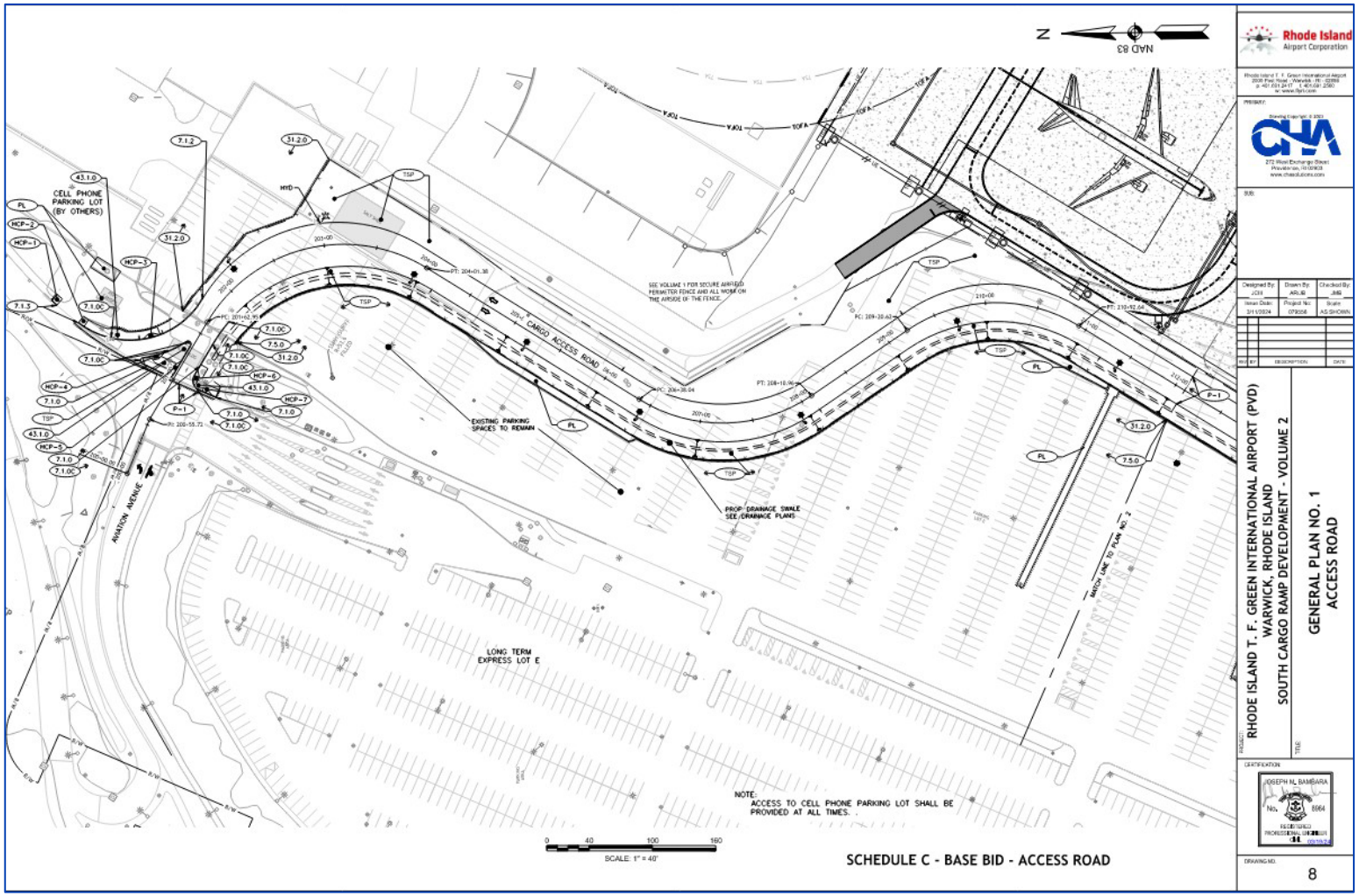
South Cargo Development

- Cargo Ramp and UPS Site Vol 1 Plans
- Phase 7
- Final Marking, Finalize AOA Perimeter Security Fencing and Gates
- Phase Duration – NA (complete within the overall contract time)
- Overall Contract Time is 414 Calendar Days



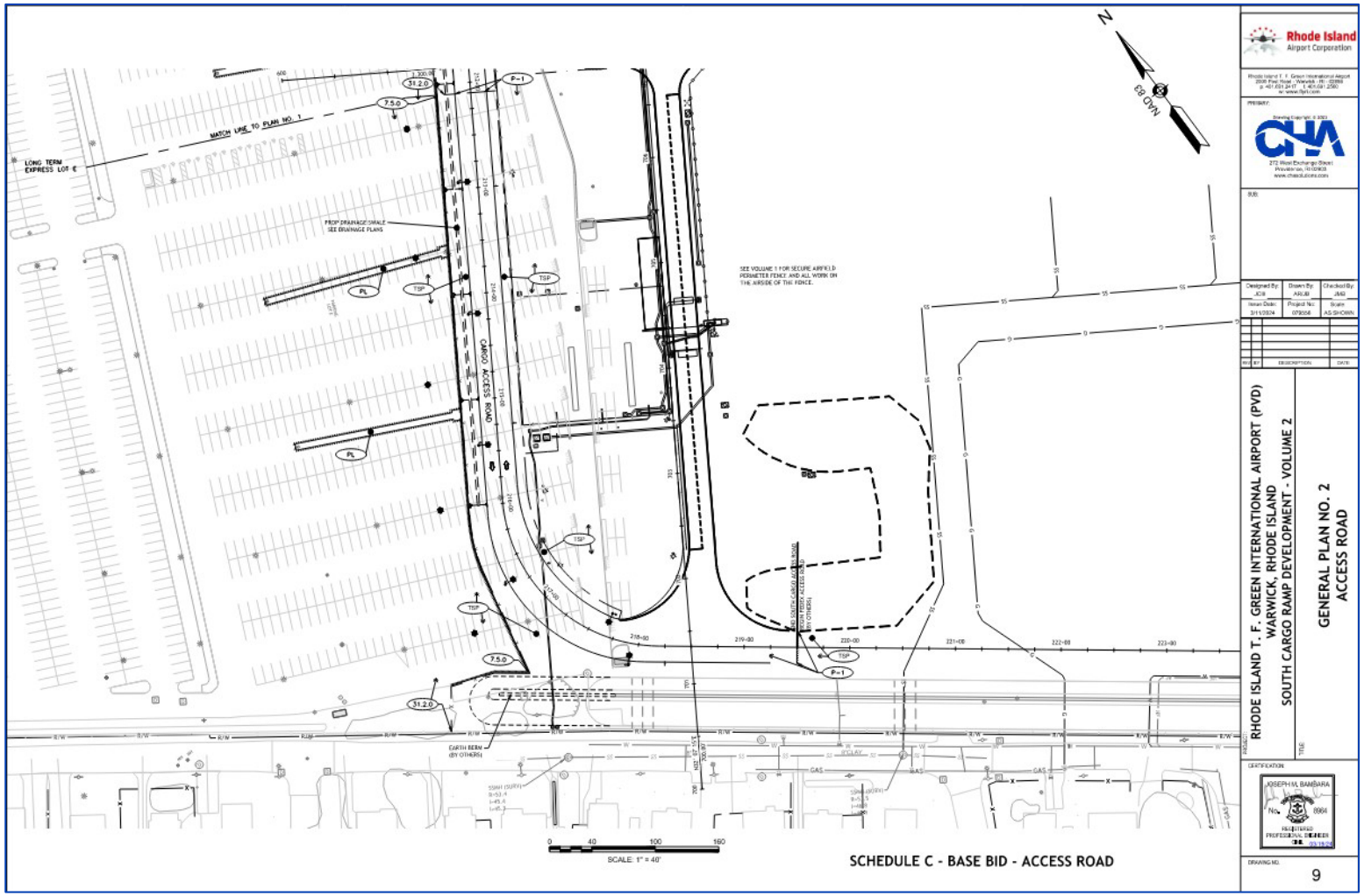
South Cargo Development

- Access Road



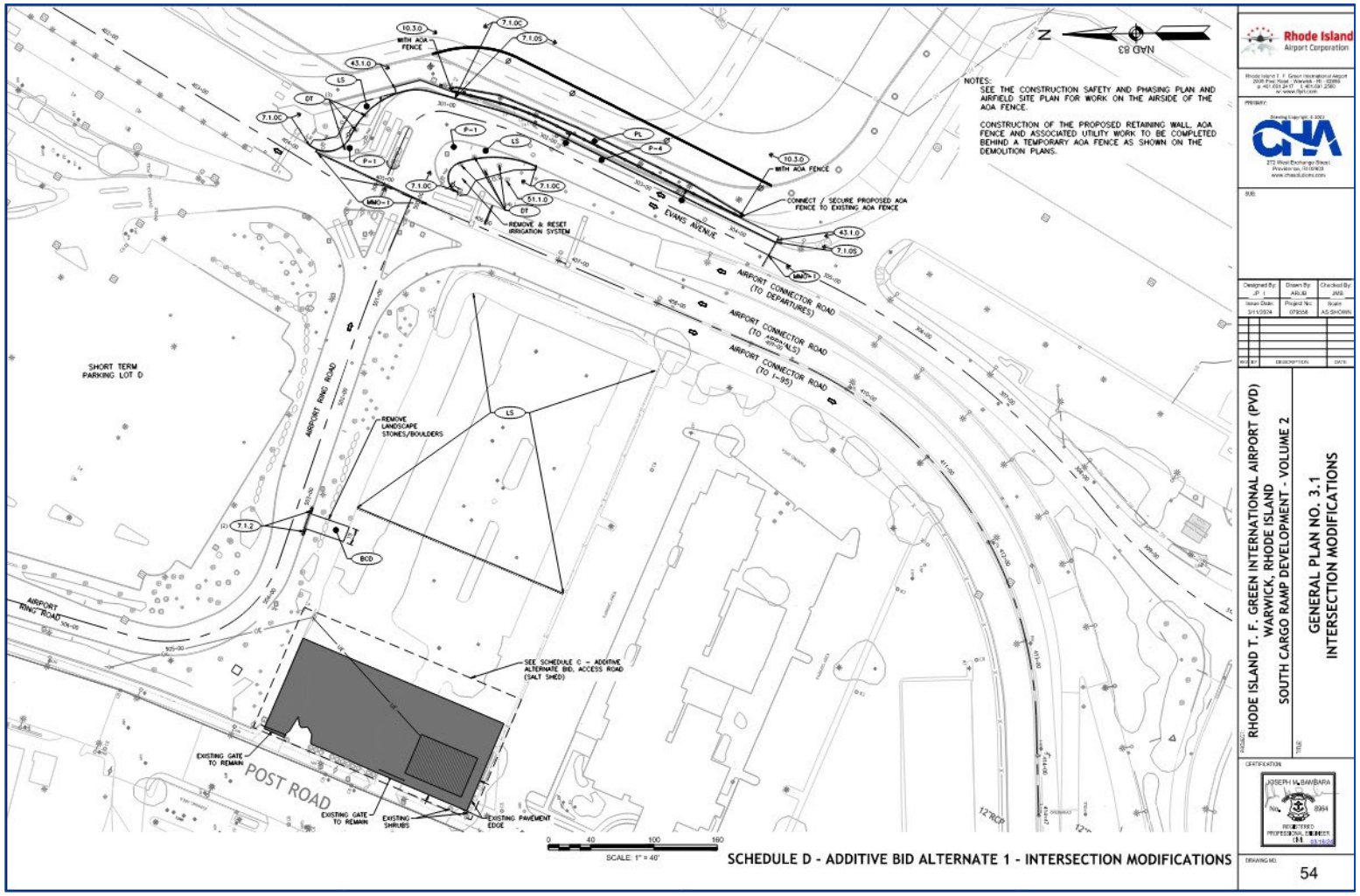
South Cargo Development

- Access Road



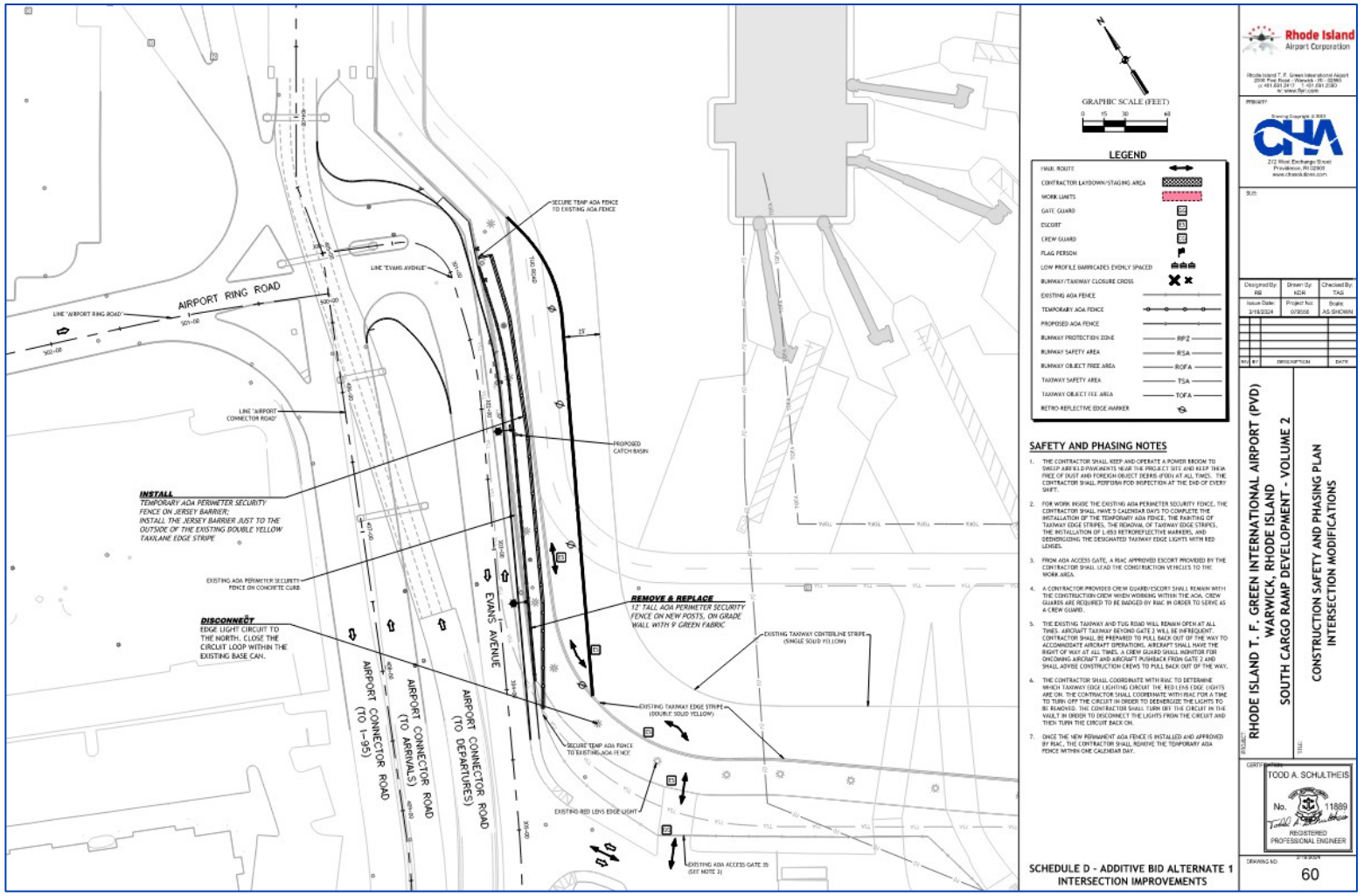
South Cargo Development

- Intersection Modifications (Additive Bid Alternate D) and Salt Shed (Schedule C Additive Alternate)



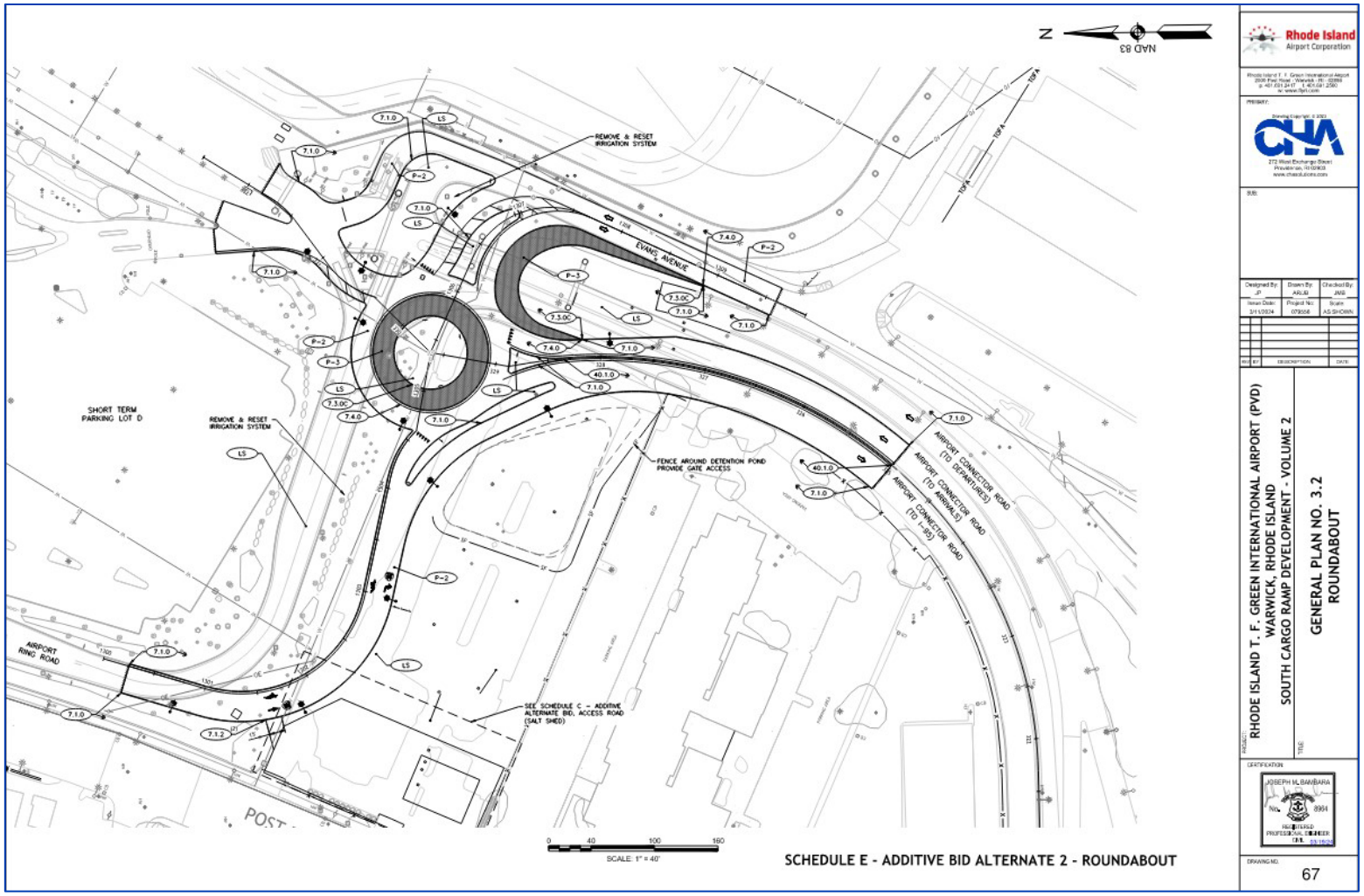
South Cargo Development

- Intersection Modifications Construction Safety and Phasing Plan
- Airside Access – gate and escorts
- Temporary AOA Fence, Pavement Markings, Taxiway Edge Markers, Edge Light Circuit
- Aircraft shall have the right of way at all times
- Duration – 5 Days for work within the AOA



South Cargo Development

- Roundabout (Bid Schedule E Additive Alternate)



PVD SOUTH CARGO RAMP DEVELOPMENT

Questions

BORING INFORMATION

LOCATION: See plan.
GROUND SURFACE EL. (ft): 50
VERTICAL DATUM:
TOTAL DEPTH (ft): 12.0
LOGGED BY: Tom Rezzani
DATE START/END: 11/21/2023 - 11/21/2023
DRILLING COMPANY: GeoLogic-Earth Exploration
DRILLER NAME: David Sheldon
RIG TYPE: CME-750 ATV

BORING
B-10
PAGE 1 of 1

DRILLING INFORMATION

HAMMER TYPE: Safety Hammer - semi-automatic
AUGER I.D./O.D.: 3.25 inch / NA
DRILLING METHOD: Hallow-Stem Auger
CASING I.D./O.D.: NA/ NA
DRILL ROD O.D.: NM
CORE BARREL TYPE:
CORE BARREL I.D./O.D. NA / NA
WATER LEVEL DEPTHS (ft): ▽ 9.8

ABBREVIATIONS:
Pen. = Penetration Length
Rec. = Recovery Length
RQD = Rock Quality Designation = Length of Sound Cores>4 in / Pen.,%
WOR = Weight of Rods
WOH = Weight of Hammer
S = Split Spoon Sample
C = Core Sample
U = Undisturbed Sample
SC = Sonic Core
DP = Direct Push Sample
HSA = Hollow-Stem Auger
Qp = Pocket Penetrometer Strength
Sv = Pocket Torvane Shear Strength
LL = Liquid Limit
PI = Plasticity Index
PID = Photoionization Detector
I.D./O.D. = Inside Diameter/Outside Diameter
NA, NM = Not Applicable, Not Measured
Blows per 6 in.: 140-lb hammer falling 30 inches to drive a 2-inch-O.D. split spoon sampler.

Elev. (ft)	Depth (ft)	Sample Information: Sample No.	Sample Information: Depth (ft)	Sample Information: Pen./ Rec. (in)	Sample Information: Blows per 6 in. or RQD	Drilling Remarks/ Field Test Data	Layer Name	Soil and Rock Description
		S1	0 to 2	24/16	1-7-11-8	Auger grinding, practical refusal. Boring offset.	SAND AND GRAVEL	S1A (0-13") TOPSOIL S1B (13-16") WIDELY GRADED SAND WITH GRAVEL (SW); ~80% F-C sand, ~15% F-C gravel, ~5% NP fines, gray, dry.
		S2	2 to 4	24/20	19-19-24-22			S2: WIDELY GRADED SAND WITH GRAVEL (SW); ~50% F-C sand, ~45% F-C gravel, ~5% NP fines, orange-brown to gray, dry.
	5	S3	4 to 6	24/17	17-12-19-15			S3: WIDELY GRADED SAND WITH GRAVEL (SW); ~65% F-C sand, ~30% F-C gravel, ~5% NP fines, gray, dry.
		S4	6 to 8	24/18	16-11-15-15			S4: Similar to S3, moist.
40	10	S5	10 to 12	24/15	5-4-5-6			S5: WIDELY GRADED SAND WITH GRAVEL (SW); ~85% F-C sand, ~15% F gravel, dark gray, wet.
	15							Planned maximum depth of boring. Backfilled with cuttings, supplemented with sand.
30	20							

NOTES:

PROJECT NAME: PVD South Cargo Ramp
CITY/STATE: Warwick, Rhode Island
GEI PROJECT NUMBER: 2305338

GEI Consultants

BORING INFORMATION

LOCATION: See plan.
GROUND SURFACE EL. (ft): 55
VERTICAL DATUM:
TOTAL DEPTH (ft): 12.0
LOGGED BY: Tom Rezzani
DATE START/END: 11/21/2023 - 11/21/2023
DRILLING COMPANY: GeoLogic-Earth Exploration
DRILLER NAME: David Sheldon
RIG TYPE: CME-750 ATV

BORING
B-11

DRILLING INFORMATION

HAMMER TYPE: Safety Hammer - semi-automatic
AUGER I.D./O.D.: 3.25 inch / NA
DRILLING METHOD: Hallow-Stem Auger
WATER LEVEL DEPTHS (ft): ▽ 8.9
CASING I.D./O.D.: NA/ NA
DRILL ROD O.D.: NM
CORE BARREL TYPE:
CORE BARREL I.D./O.D. NA / NA

ABBREVIATIONS:
Pen. = Penetration Length
Rec. = Recovery Length
RQD = Rock Quality Designation = Length of Sound Cores>4 in / Pen.,%
WOR = Weight of Rods
WOH = Weight of Hammer
S = Split Spoon Sample
C = Core Sample
U = Undisturbed Sample
SC = Sonic Core
DP = Direct Push Sample
HSA = Hollow-Stem Auger
Qp = Pocket Penetrometer Strength
Sv = Pocket Torvane Shear Strength
LL = Liquid Limit
PI = Plasticity Index
PID = Photoionization Detector
I.D./O.D. = Inside Diameter/Outside Diameter
NA, NM = Not Applicable, Not Measured
Blows per 6 in.: 140-lb hammer falling 30 inches to drive a 2-inch-O.D. split spoon sampler.

Elev. (ft)	Depth (ft)	Sample Information: Sample No.	Sample Information: Depth (ft)	Sample Information: Pen./ Rec. (in)	Sample Information: Blows per 6 in. or RQD	Drilling Remarks/ Field Test Data	Layer Name	Soil and Rock Description
		S1	0 to 2	24/15	3-6-10-16	Auger grinding.	FILL	S1A (0-5"): TOPSOIL S1B (5-15"): WIDELY GRADED SAND WITH GRAVEL (SW); ~75% F-C sand, ~25% F-C gravel, ~5% NP fines, few brick fragments, dark gray, dry.
		S2	2 to 4	24/1	12-7-11-18			S2: Poor recovery, cobble fragments.
		S3	4 to 6	24/16	28-16-17-16			S3A (0-5"): Cobble fragments. S3B (5-16"): WIDELY GRADED SAND WITH GRAVEL (SW); ~60% F-C sand, ~35% F-C gravel, ~5% NP fines, grayish brown, dry.
50	5	S4	6 to 8	24/16	12-14-12-14		SAND AND GRAVEL	S4: WIDELY GRADED SAND WITH GRAVEL (SW); ~80% F-C sand, ~20% F gravel, gray, moist.
		S5	8 to 10	24/22	6-5-6-4			S5: Similar to S4, moist from 0-10", wet from 10-22".
	10	S6	10 to 12	24/22	3-3-5-3			S6: WIDELY GRADED SAND (SW); ~85% F-C sand, ~10% F gravel, ~5% NP fines, dark gray, wet.
40	15							Planned maximum depth of boring. Backfilled with cuttings, supplemented with sand.
	20							

NOTES:

PROJECT NAME: PVD South Cargo Ramp
CITY/STATE: Warwick, Rhode Island
GEI PROJECT NUMBER: 2305338

GEI Consultants

BORING INFORMATION

LOCATION: See plan.

GROUND SURFACE EL. (ft): 54 **DATE START/END:** 11/21/2023 - 11/21/2023

VERTICAL DATUM: **DRILLING COMPANY:** GeoLogic-Earth Exploration

TOTAL DEPTH (ft): 12.0 **DRILLER NAME:** David Sheldon

LOGGED BY: Tom Rezzani **RIG TYPE:** CME-750 ATV

BORING

B-12

PAGE 1 of 1

DRILLING INFORMATION

HAMMER TYPE: Safety Hammer - semi-automatic **CASING I.D./O.D.:** NA/ NA **CORE BARREL TYPE:**

AUGER I.D./O.D.: 3.25 inch / NA **DRILL ROD O.D.:** NM **CORE BARREL I.D./O.D.** NA / NA

DRILLING METHOD: Hallow-Stem Auger

WATER LEVEL DEPTHS (ft): ▽ 9.9

ABBREVIATIONS:

Pen. = Penetration Length
Rec. = Recovery Length
RQD = Rock Quality Designation = Length of Sound Cores>4 in / Pen.,%
WOR = Weight of Rods
WOH = Weight of Hammer

S = Split Spoon Sample
C = Core Sample
U = Undisturbed Sample
SC = Sonic Core
DP = Direct Push Sample
HSA = Hollow-Stem Auger

Qp = Pocket Penetrometer Strength
Sv = Pocket Torvane Shear Strength
LL = Liquid Limit
PI = Plasticity Index
PID = Photoionization Detector
I.D./O.D. = Inside Diameter/Outside Diameter

NA, NM = Not Applicable, Not Measured
Blows per 6 in.: 140-lb hammer falling 30 inches to drive a 2-inch-O.D. split spoon sampler.

Elev. (ft)	Depth (ft)	Sample Information: Sample No.	Sample Information: Depth (ft)	Sample Information: Pen./ Rec. (in)	Sample Information: Blows per 6 in. or RQD	Drilling Remarks/ Field Test Data	Layer Name	Soil and Rock Description
50	0	S1	0 to 2	24/15	2-3-7-8		SAND AND GRAVEL	S1A (0-7"): TOPSOIL, frequent organic fibers, dark brown. S1B (7-15"): WIDELY GRADED SAND WITH GRAVEL (SW); ~65% F-C sand, ~35% F-C gravel, ~5% NP fines, gray to orangish brown, dry.
		S2	2 to 4	24/16	10-9-7-9			S2: Similar to S1B, gray.
	5	S3	4 to 6	24/17	5-10-5-8			S3: WIDELY GRADED SAND WITH GRAVEL (SW); ~75% F-C sand, ~20% F gravel, ~5% NP fines.
		S4	6 to 8	24/17	12-11-12-10			S4: Similar to S3, F gravel.
	10	S5	10 to 12	24/19	3-3-6-5			S5: NARROWLY GRADED SAND (SW); ~85% M-C sand, ~10% F gravel, ~5% NP fines, dark gray, wet.
40	15							Planned maximum depth of boring. Backfilled with cuttings, supplemented with sand.
	20							

NOTES:

PROJECT NAME: PVD South Cargo Ramp

CITY/STATE: Warwick, Rhode Island

GEI PROJECT NUMBER: 2305338

GEI Consultants

BORING INFORMATION

LOCATION: See plan.

GROUND SURFACE EL. (ft): 54 **DATE START/END:** 11/20/2023 - 11/20/2023

VERTICAL DATUM: **DRILLING COMPANY:** GeoLogic-Earth Exploration

TOTAL DEPTH (ft): 8.0 **DRILLER NAME:** David Sheldon

LOGGED BY: Tom Rezzani **RIG TYPE:** CME-750 ATV

BORING

B-14

DRILLING INFORMATION

HAMMER TYPE: Safety Hammer - semi-automatic **CASING I.D./O.D.:** NA/ NA **CORE BARREL TYPE:**

AUGER I.D./O.D.: 3.25 inch / NA **DRILL ROD O.D.:** NM **CORE BARREL I.D./O.D.** NA / NA

DRILLING METHOD: Hallow-Stem Auger

WATER LEVEL DEPTHS (ft): Not encountered.

ABBREVIATIONS:

Pen. = Penetration Length
Rec. = Recovery Length
RQD = Rock Quality Designation = Length of Sound Cores>4 in / Pen.,%
WOR = Weight of Rods
WOH = Weight of Hammer

S = Split Spoon Sample
C = Core Sample
U = Undisturbed Sample
SC = Sonic Core
DP = Direct Push Sample
HSA = Hollow-Stem Auger

Qp = Pocket Penetrometer Strength
Sv = Pocket Torvane Shear Strength
LL = Liquid Limit
PI = Plasticity Index
PID = Photoionization Detector
I.D./O.D. = Inside Diameter/Outside Diameter

NA, NM = Not Applicable, Not Measured
Blows per 6 in.: 140-lb hammer falling 30 inches to drive a 2-inch-O.D. split spoon sampler.

Elev. (ft)	Depth (ft)	Sample Information: Sample No.	Sample Information: Depth (ft)	Sample Information: Pen./ Rec. (in)	Sample Information: Blows per 6 in. or RQD	Drilling Remarks/ Field Test Data	Layer Name	Soil and Rock Description
							PVMT	2 inches ASPHALT
		S1	0.5 to 2	18/14	4-5-4		PVMT	S1: WIDELY GRADED GRAVEL WITH SILT AND SAND (GW-GM); ~70% F-C gravel, ~20% F-C sand, ~10% NP fines, brown to orange-brown, dry to moist. (SUBBASE)
		S2	2 to 4	24/16	6-5-2-3		SAND AND GRAVEL	S2: WIDELY GRADED SAND WITH GRAVEL (SW); ~65% F-C sand, ~30% F-C gravel, ~5% NP fines, gray, dry.
50	5	S3	4 to 6	24/15	4-2-8-8		SAND AND GRAVEL	S3: WIDELY GRADED SAND WITH GRAVEL (SW); ~70% F-C sand, ~25% F gravel, ~5% NP fines, gray, dry.
		S4	6 to 8	24/17	9-5-7-8		SAND AND GRAVEL	S4: WIDELY GRADED SAND (SP); ~85% F-C sand, ~10% F-C gravel, ~5% NP fines, gray, dry to moist.
	10							Planned maximum depth of boring. Backfilled with cuttings, supplemented with sand.
40	15							
	20							

NOTES:

PROJECT NAME: PVD South Cargo Ramp

CITY/STATE: Warwick, Rhode Island

GEI PROJECT NUMBER: 2305338

GEI Consultants

BORING INFORMATION

LOCATION: See plan.

GROUND SURFACE EL. (ft): 53 **DATE START/END:** 11/20/2023 - 11/20/2023

VERTICAL DATUM: **DRILLING COMPANY:** GeoLogic-Earth Exploration

TOTAL DEPTH (ft): 8.0 **DRILLER NAME:** David Sheldon

LOGGED BY: Tom Rezzani **RIG TYPE:** CME-750 ATV

BORING

B-15

DRILLING INFORMATION

HAMMER TYPE: Safety Hammer - semi-automatic **CASING I.D./O.D.:** NA/ NA **CORE BARREL TYPE:**

AUGER I.D./O.D.: 3.25 inch / NA **DRILL ROD O.D.:** NM **CORE BARREL I.D./O.D.** NA / NA

DRILLING METHOD: Hallow-Stem Auger

WATER LEVEL DEPTHS (ft): Not encountered.

ABBREVIATIONS:

Pen. = Penetration Length
Rec. = Recovery Length
RQD = Rock Quality Designation = Length of Sound Cores>4 in / Pen.,%
WOR = Weight of Rods
WOH = Weight of Hammer

S = Split Spoon Sample
C = Core Sample
U = Undisturbed Sample
SC = Sonic Core
DP = Direct Push Sample
HSA = Hollow-Stem Auger

Qp = Pocket Penetrometer Strength
Sv = Pocket Torvane Shear Strength
LL = Liquid Limit
PI = Plasticity Index
PID = Photoionization Detector
I.D./O.D. = Inside Diameter/Outside Diameter

NA, NM = Not Applicable, Not Measured
Blows per 6 in.: 140-lb hammer falling 30 inches to drive a 2-inch-O.D. split spoon sampler.

Elev. (ft)	Depth (ft)	Sample Information: Sample No.	Sample Information: Depth (ft)	Sample Information: Pen./ Rec. (in)	Sample Information: Blows per 6 in. or RQD	Drilling Remarks/ Field Test Data	Layer Name	Soil and Rock Description
								4 inches ASPHALT
		S1	0.5 to 2	18/12	8-7-10		SAND AND GRAVEL	S1: WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~75% F-C sand, ~15% F-C gravel, ~10% NP fines, dark brown to brown, dry.
50		S2	2 to 4	24/17	12-12-18-18			S2: WIDLEY GRADED SAND WITH GRAVEL (SW); ~60% F-C sand, ~35% F-C gravel, ~5% NP fines, gray, dry.
	5	S3	4 to 6	24/16	10-11-15-11			S3: WIDELY GRADED SAND (SW); ~85% F-C sand, ~10% F gravel, ~5% NP fines, gray, dry.
		S4	6 to 8	24/19	12-9-10-8			S4: WIDELY GRADED SAND WITH GRAVEL (SW); ~70% F-C sand, ~30% F-C gravel, gray, dry.
	10							Planned maximum depth of boring. Backfilled with cuttings, supplemented with sand.
40								
	15							
	20							

NOTES:

PROJECT NAME: PVD South Cargo Ramp

CITY/STATE: Warwick, Rhode Island

GEI PROJECT NUMBER: 2305338

GEI Consultants

BORING INFORMATION

LOCATION: See plan.

GROUND SURFACE EL. (ft): 53.5 **DATE START/END:** 11/20/2023 - 11/20/2023

VERTICAL DATUM: **DRILLING COMPANY:** GeoLogic-Earth Exploration

TOTAL DEPTH (ft): 8.0 **DRILLER NAME:** David Sheldon

LOGGED BY: Tom Rezzani **RIG TYPE:** CME-750 ATV

BORING

B-16

PAGE 1 of 1

DRILLING INFORMATION

HAMMER TYPE: Safety Hammer - semi-automatic **CASING I.D./O.D.:** NA/ NA **CORE BARREL TYPE:**

AUGER I.D./O.D.: 3.25 inch / NA **DRILL ROD O.D.:** NM **CORE BARREL I.D./O.D.** NA / NA

DRILLING METHOD: Hallow-Stem Auger

WATER LEVEL DEPTHS (ft): Not encountered.

ABBREVIATIONS:

Pen. = Penetration Length
Rec. = Recovery Length
RQD = Rock Quality Designation = Length of Sound Cores>4 in / Pen.,%
WOR = Weight of Rods
WOH = Weight of Hammer

S = Split Spoon Sample
C = Core Sample
U = Undisturbed Sample
SC = Sonic Core
DP = Direct Push Sample
HSA = Hollow-Stem Auger

Qp = Pocket Penetrometer Strength
Sv = Pocket Torvane Shear Strength
LL = Liquid Limit
PI = Plasticity Index
PID = Photoionization Detector
I.D./O.D. = Inside Diameter/Outside Diameter

NA, NM = Not Applicable, Not Measured
Blows per 6 in.: 140-lb hammer falling 30 inches to drive a 2-inch-O.D. split spoon sampler.

Elev. (ft)	Depth (ft)	Sample Information: Sample No.	Sample Information: Depth (ft)	Sample Information: Pen./ Rec. (in)	Sample Information: Blows per 6 in. or RQD	Drilling Remarks/ Field Test Data	Layer Name	Soil and Rock Description
							PVMT	4 inches ASPHALT
		S1	0.5 to 2	18/12	10-6-8			S1: SILTY SAND WITH GRAVEL (SM); ~65% F-C sand, ~20% F-C gravel, ~15% NP fines, orange-brown, dry. (SUBBASE)
		S2	2 to 4	24/20	18-16-17-19		SAND AND GRAVEL	S2A (0-4"): Similar to S1. S2B (4-20"): WIDELY GRADED SAND WITH GRAVEL (SW); ~70% F-C sand, ~25% F-C gravel, ~5% NP fines, gray, dry.
50	5	S3	4 to 6	24/24	13-13-20-14			S3: Similar to S2B.
		S4	6 to 8	24/22	16-10-14-14			S4: WIDELY GRADED SAND WITH GRAVEL (SW); ~75% F-C sand, ~25% F gravel, dark gray, dry to moist.
40	10 15 20							Planned maximum depth of boring. Backfilled with cuttings, supplemented with sand.

NOTES:

PROJECT NAME: PVD South Cargo Ramp

CITY/STATE: Warwick, Rhode Island

GEI PROJECT NUMBER: 2305338

GEI Consultants

BORING INFORMATION

LOCATION: See plan.

GROUND SURFACE EL. (ft): 53 **DATE START/END:** 11/20/2023 - 11/20/2023

VERTICAL DATUM: **DRILLING COMPANY:** GeoLogic-Earth Exploration

TOTAL DEPTH (ft): 16.0 **DRILLER NAME:** David Sheldon

LOGGED BY: Tom Rezzani **RIG TYPE:** CME-750 ATV

BORING

B-17

PAGE 1 of 1

DRILLING INFORMATION

HAMMER TYPE: Safety Hammer - semi-automatic **CASING I.D./O.D.:** NA/ NA **CORE BARREL TYPE:**

AUGER I.D./O.D.: 3.25 inch / NA **DRILL ROD O.D.:** NM **CORE BARREL I.D./O.D.** NA / NA

DRILLING METHOD: Hollow-Stem Auger

WATER LEVEL DEPTHS (ft): Not measured (drill water used)

ABBREVIATIONS:
Pen. = Penetration Length
Rec. = Recovery Length
RQD = Rock Quality Designation = Length of Sound Cores>4 in / Pen.,%
WOR = Weight of Rods
WOH = Weight of Hammer
S = Split Spoon Sample
C = Core Sample
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Qp = Pocket Penetrometer Strength
Sv = Pocket Torvane Shear Strength
LL = Liquid Limit
PI = Plasticity Index
PID = Photoionization Detector
I.D./O.D. = Inside Diameter/Outside Diameter
NA, NM = Not Applicable, Not Measured
Blows per 6 in.: 140-lb hammer falling 30 inches to drive a 2-inch-O.D. split spoon sampler.

Elev. (ft)	Depth (ft)	Sample Information: Sample No.	Sample Information: Depth (ft)	Sample Information: Pen./ Rec. (in)	Sample Information: Blows per 6 in. or RQD	Drilling Remarks/ Field Test Data	Layer Name	Soil and Rock Description
								3.5 inches ASPHALT
		S1	0.5 to 2	18/11	15-16-7		SAND AND GRAVEL	S1: WIDELY GRADED SAND WITH SILT AND GRAVEL (SW); ~60% F-C sand, ~30% F-C gravel, ~10% NP fines, dark gray to brown, moist.
50		S2	2 to 4	24/18	7-7-12-11			S2A (0-12"): NARROWLY GRADED SAND (SP); ~85% M-C sand, ~10% F gravel, ~5% NP fines, moist. S2B (12-18"): NARROWLY GRADED SAND WITH SILT (SP-SM); ~75% F-M sand, ~15% F-C gravel, ~10% NP fines, dry.
	5	S3	4 to 6	24/16	8-9-11-15			S3: WIDELY GRADED SAND WITH GRAVEL (SW); ~80% F-C sand, ~15% F-C gravel, ~5% NP fines, brown, moist.
		S4	6 to 8	24/21	15-19-19-14			S4: WIDELY GRADED SAND WITH GRAVEL (SW); ~65% F-C sand, ~30% F-C gravel, ~5% NP fines, orangish brown, moist to dry.
	10	S5	9 to 11	24/9	7-10-8-8			S5: WIDELY GRADED SAND WITH GRAVEL (SW); ~75% F-C sand, ~20% F-C gravel, ~5% NP fines, gray, damp.
40								
	15	S6	14 to 16	24/0	3-2-4-4			S6: No recovery.
								Planned maximum depth of boring. Backfilled with cuttings, supplemented with sand.
	20							

NOTES:

PROJECT NAME: PVD South Cargo Ramp

CITY/STATE: Warwick, Rhode Island

GEI PROJECT NUMBER: 2305338

GEI Consultants

BORING INFORMATION

LOCATION: See plan.

GROUND SURFACE EL. (ft): 53 **DATE START/END:** 11/20/2023 - 11/20/2023

VERTICAL DATUM: **DRILLING COMPANY:** GeoLogic-Earth Exploration

TOTAL DEPTH (ft): 16.0 **DRILLER NAME:** David Sheldon

LOGGED BY: Tom Rezzani **RIG TYPE:** CME-750 ATV

BORING

B-18

DRILLING INFORMATION

HAMMER TYPE: Safety Hammer - semi-automatic **CASING I.D./O.D.:** NA/ NA **CORE BARREL TYPE:**

AUGER I.D./O.D.: 3.25 inch / NA **DRILL ROD O.D.:** NM **CORE BARREL I.D./O.D.** NA / NA

DRILLING METHOD: Hollow-Stem Auger

WATER LEVEL DEPTHS (ft): Not measured (drill water used)

ABBREVIATIONS:

Pen. = Penetration Length
Rec. = Recovery Length
RQD = Rock Quality Designation = Length of Sound Cores>4 in / Pen.,%
WOR = Weight of Rods
WOH = Weight of Hammer

S = Split Spoon Sample
C = Core Sample
U = Undisturbed Sample
SC = Sonic Core
DP = Direct Push Sample
HSA = Hollow-Stem Auger

Qp = Pocket Penetrometer Strength
Sv = Pocket Torvane Shear Strength
LL = Liquid Limit
PI = Plasticity Index
PID = Photoionization Detector
I.D./O.D. = Inside Diameter/Outside Diameter

NA, NM = Not Applicable, Not Measured
Blows per 6 in.: 140-lb hammer falling 30 inches to drive a 2-inch-O.D. split spoon sampler.

Elev. (ft)	Depth (ft)	Sample Information: Sample No.	Sample Information: Depth (ft)	Sample Information: Pen./ Rec. (in)	Sample Information: Blows per 6 in. or RQD	Drilling Remarks/ Field Test Data	Layer Name	Soil and Rock Description
								4 inches ASPHALT
		S1	0.5 to 2	18/11	17-14-15		SAND AND GRAVEL	S1: WIDELY GRADED SAND WITH GRAVEL (SW); ~60% F-C sand, ~35% F-C gravel, ~5% NP fines, dark gray to light gray, moist.
50		S2	2 to 4	24/14	9-5-6-4			S2: WIDELY GRADED SAND WITH GRAVEL (SW); ~70% F-C sand, ~25% F gravel, ~5% NP fines, dark gray to gray, moist.
	5	S3	4 to 6	24/11	5-10-15-19			S3: Similar to S2, gray.
		S4	6 to 8	24/17	22-18-15-14			S4: Similar to S2, gray with orange.
	10	S5	9 to 11	24/14	4-5-5-6			S5: WIDELY GRADED SAND WITH GRAVEL (SW); ~85% F-C sand, ~10% F gravel, ~5% NP fines, gray, moist.
40								
	15	S6	14 to 16	24/12	4-4-5-7			S6: NARROWLY GRADED SAND WITH GRAVEL (SP); ~80% M-C sand, ~20% F gravel, gray, moist.
	20							Planned maximum depth of boring. Backfilled with cuttings, supplemented with sand.

NOTES:

PROJECT NAME: PVD South Cargo Ramp

CITY/STATE: Warwick, Rhode Island

GEI PROJECT NUMBER: 2305338

GEI Consultants

BORING INFORMATION

LOCATION: See plan.

GROUND SURFACE EL. (ft): 52 **DATE START/END:** 11/13/2023 - 11/13/2023

VERTICAL DATUM: **DRILLING COMPANY:** GeoLogic-Earth Exploration

TOTAL DEPTH (ft): 12.0 **DRILLER NAME:** John Galvin

LOGGED BY: Tom Rezzani **RIG TYPE:** CME-750 ATV

BORING

B-19

DRILLING INFORMATION

HAMMER TYPE: Safety Hammer - semi-automatic **CASING I.D./O.D.:** NA/ NA **CORE BARREL TYPE:**

AUGER I.D./O.D.: 3.25 inch / NA **DRILL ROD O.D.:** NM **CORE BARREL I.D./O.D.** NA / NA

DRILLING METHOD: Hollow-Stem Auger

WATER LEVEL DEPTHS (ft): ▽ 10.0 11/13/2023

ABBREVIATIONS:
Pen. = Penetration Length
Rec. = Recovery Length
RQD = Rock Quality Designation = Length of Sound Cores>4 in / Pen.,%
WOR = Weight of Rods
WOH = Weight of Hammer
S = Split Spoon Sample
C = Core Sample
U = Undisturbed Sample
SC = Sonic Core
DP = Direct Push Sample
HSA = Hollow-Stem Auger
Qp = Pocket Penetrometer Strength
Sv = Pocket Torvane Shear Strength
LL = Liquid Limit
PI = Plasticity Index
PID = Photoionization Detector
I.D./O.D. = Inside Diameter/Outside Diameter
NA, NM = Not Applicable, Not Measured
Blows per 6 in.: 140-lb hammer falling 30 inches to drive a 2-inch-O.D. split spoon sampler.

Elev. (ft)	Depth (ft)	Sample Information: Sample No.	Sample Information: Depth (ft)	Sample Information: Pen./ Rec. (in)	Sample Information: Blows per 6 in. or RQD	Drilling Remarks/ Field Test Data	Layer Name	Soil and Rock Description
50		S1	0 to 2	24/16	2-5-6-8		SAND AND GRAVEL	S1: SILTY SAND (SM); ~70% F-C sand, ~20% NP fines, ~10% F gravel, organic fibers, dark brown, dry. (7 inches TOPSOIL)
		S2	2 to 4	24/16	6-11-12-15			S2: WIDELY GRADED SAND WITH GRAVEL (SW); ~65% F-C sand, ~30% F-C gravel, ~5% NP fines, gray, dry.
	5	S3	4 to 6	24/12	5-11-12-12			S3: Similar to S2.
		S4	6 to 8	24/14	7-10-12-10			S4: Similar to S2, with orange.
	10	S5	10 to 12	24/15	2-2-4-6			S5: Similar to S2, wet.
40								Planned maximum depth of boring. Backfilled with cuttings, supplemented with sand.
	15							
	20							

NOTES:

PROJECT NAME: PVD South Cargo Ramp

CITY/STATE: Warwick, Rhode Island

GEI PROJECT NUMBER: 2305338

GEI Consultants