POND SITING REPORT

Florida Department of Transportation
District Five

I-75 (S.R.93)
from South of S.R. 44 to S.R. 200
Marion County, Florida

Financial Management Number: 452074-2

ETDM Number: 14541

May 2024

The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being, or have been, carried out by the Florida Department of Transportation (FDOT) pursuant to 23 USC § 327 and a Memorandum of Understanding dated May 26, 2022, and executed by the Federal Highway Administration and FDOT.

Pond Siting Report

Marion and Sumter Counties

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FDOT

PROFESSIONAL ENGINEER CERTIFICATION

I hereby certify that I am a registered professional engineer in the State of Florida practicing engineering with Burgess & Niple, Inc. and that I have supervised the preparation of and approve the analysis, findings, opinions, conclusions, and technical advice hereby reported for:

PROJECT: Interstate 75 (I-75) from South of State Road (S.R.) 44 to S.R. 200

ETDM Number: 14541

Financial Project ID: 452074-2

Federal Aid Project Number: N/A

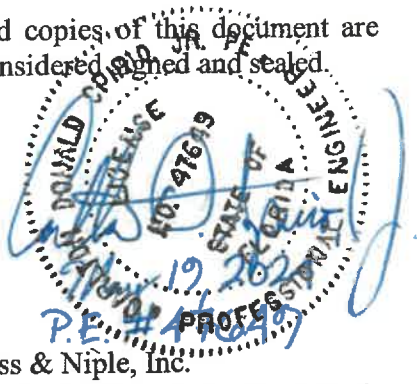
PROJECT DOCUMENT: Pond Siting Report – Marion County

This pond siting report contains engineering information that fulfills the purpose and need for the I-75 Project Development & Environment Study for the Southern Section of I-75, beginning south of S.R. 44 and extending north to S.R. 200. I acknowledge that the procedures and references used to develop the results contained in this report are standard to the professional practice of transportation engineering as applied through professional judgment and experience.

I hereby certify that I am a registered professional engineer in the State of Florida practicing with Burgess & Niple, Inc., and that I have prepared or approved the evaluation, findings, opinions, conclusions, or technical advice for this project.

This document has been signed and sealed by Carlton D. Spirio, Jr., P.E. on the date beneath the signature.

Printed copies of this document are not considered signed and sealed.



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Introduction

The purpose of this Report is to provide documentation for the pond siting efforts required to address the stormwater management needs to preserve the historic drainage patterns throughout the project corridor involving the proposed roadway improvements to I-75. The project limits begin just north of the Turnpike interchange with I-75 and extend northward to S.R. 200. This project area has been divided into 34 drainage basins based on the overland topography and other features that influence the drainage patterns throughout this portion of I-75. This report summarizes the research efforts and data reconnaissance involving the existing drainage conditions, along with the hydrology and hydraulic criteria used to assess three (3) pond site alternatives within each of the drainage basins identified throughout the project.

The project corridor crosses the jurisdictional limits for both the St. Johns River and Southwest Florida Water Management Districts. The southern drainage basins, Basins 0 through 8, are within Sumter County, which is part of the jurisdictional limits for the Southwest Florida Water Management District (SWFWMD). The remainder of the drainage basins, Basins 9 through 32, are in Marion County. The I-75 corridor in Marion County serves as the boundary between the jurisdictional limits for both the St. John River Water Management District (SJRWMD) and the Southwest Florida Water Management District (SWFWMD). While the Statewide Environmental Resource Permit (SWERP) criteria awaits ratification by the Legislature to adopt consistent performance standards across Florida for water quality criteria, the current water quality and quantity criteria are different for both Water Management Districts. Therefore, the required water quality treatment and attenuation volumes for the drainage basins were computed in accordance with appropriate criteria for both Water Management Districts. Please refer to Table 1 for the specific design criteria requirements for both Water Management Districts. There are no Impaired Water Bodies nor Outstanding Florida Waters (OFWs) directly associated with the waterbodies that cross through this portion of I-75; however, Lake Panasoffkee is a designated OFW downstream of the I-75 Turnpike interchange area. Overall, there no additional water quality treatment volumes required to address sensitive watershed criteria long this portion of I-75.

Table 1 Water Management District Design Criteria

Design Element	**Criteria**	**Reference**
SWFWMD		
Water Quality	Wet Detention = 1” over DCIA	B.O.R. Chapter 5.2 & 5.8
	On-line = 0.5” over DCIA	B.O.R. Chapter 5.7 & 5.8
Water Quantity	Open Basin = pre vs post comparison 25-Yr/24-Hr, 9” peak rate	B.O.R. Chapter 4.2
	Closed Basin = pre vs post comparison 100-Yr/24-Hr, 10.5” peak rate	B.O.R. Chapter 4.2
Outstanding Florida Water	Additional 50% water quality volume	B.O.R. Chapter 5.2e
Floodplain	No net reduction of flood storage volume	B.O.R. Chapter 4.4
SJRWMD		
Water Quality	Wet Detention = greater of 1” over DA or 2.5” over DCIA	P.I.M. Chapter 8.2

	Wet Detention PP ≤ 14-day average residence time, 21-day non-littoral zone	P.I.M. Chapter 8.5
	Wet Detention Max depth = 12' and mean depth 2' to 8'	P.I.M. Chapter 8.8
	On-line retention = greater of 1" rainfall runoff or 1.25" over DCIA	P.I.M. Chapter 5.2
Water Quantity	Open Basin = pre vs post comparison 25-Yr/24-Hr, 9" peak rate	P.I.M. Chapter 3.2.1
	Closed Basin = pre vs post comparison 25-Yr/96-Hr, 12" peak rate	P.I.M. Chapter 3.2.1
Outstanding Florida Water	Additional 50% water quality volume	P.I.M. Chapter 5.2.2

Existing Drainage Characteristics

The existing drainage for SR 93 (I-75) from south of SR 44 to SR 200 was assessed by conducting field reviews throughout the corridor and reviewing existing as-built plans and other available construction plans, Straight Line Diagrams (SLDs), Geographic Information System (GIS) maps, and Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps (FIRMs). Further, existing permit information was obtained from the Florida Department of Environmental Protection (FDEP), the St. John's River Florida Water Management District (SJRWMD) and the Southwest Florida Water Management District (SWFWMD).

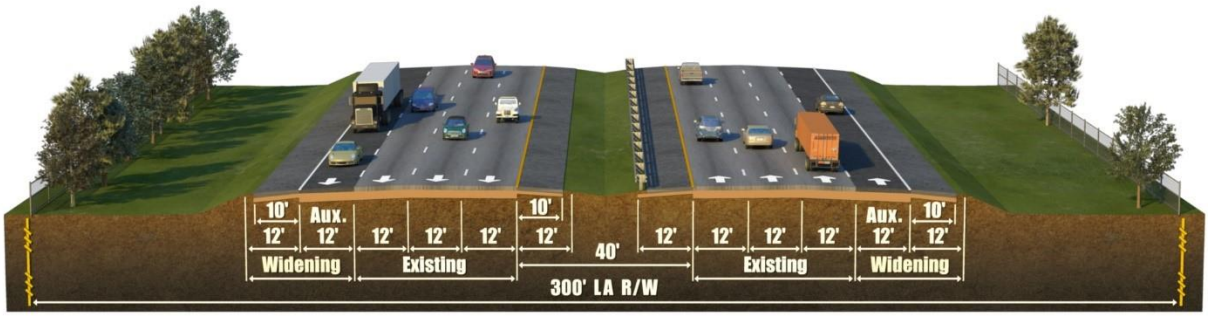
Based on our research of this segment of I-75, the roadway crosses through two (2) major watersheds, both the Withlacoochee River and Ocklawaha River Basins. The Withlacoochee Basin is within the jurisdictional boundaries of SWFWMD and the Ocklawaha Basin is in the SJRWMD service area. Additionally, the project crosses seven (7) separate Water Basin ID's (WBID's) associated with the Withlacoochee River and the Ocklawaha River Watersheds. None of the WBID's are considered impaired within the vicinity of the I-75 corridor. The Ocklawaha River is an Outstanding Florida Water (OFW); however, the project does not directly discharge to this waterbody. Since the project limits extend through both SWFWMD and SJRWMD, interagency agreements are anticipated to determine the appropriate reviewing agency for this project. A BMAP exists for the Withlacoochee Basin and is pending for the Ocklawaha Basin. Our priority will be to maximize the interchanges for stormwater management. There are several sub-basins to both of these watersheds, which include Big Jones Creek (WBID 1324) within the Withlacoochee Basin (HUC 03100208) and Silver River Drain (WBID 2772B) within the Ocklawaha Basin (HUC 03080102). Due to the length of this project, approximately 33 subbasins were delineated along the I-75 corridor based on the historical drainage patterns and receiving waterbodies associated within the project limits. Much of the project drains to designated "Closed" Basins; however, the southern portion of the project, in Sumter County, consists of "Open Basins" that drain south into the Withlacoochee Basin through Lake Panasoffkee.

The land use within the southern project is primarily agriculture with some rural residential, industrial, commercial, mixed use, wooded and conservation. While the northern segment is mostly rural land on the east side of I-75 within significant portions of medium residential on the west side with scattered low residential, public, and municipal, and some preservation lands.

Stormwater runoff is collected and conveyed primarily by roadside ditches that often serve as both conveyance and linear stormwater management systems. Several sections of I-75 have been improved in the past and stormwater controls were added to the roadway ditches to provide beneficial treatment, intended to mitigate for the added impervious area to this roadway. Additionally, several infield areas associated with the various interchanges along this section of I-75 also provide stormwater management for both the mainline and connecting sides streets. There are many cross drains, side drains and small closed storm drain systems that convey and discharge runoff into numerous outfalls. Some subbasins have multiple isolated depressions and outfalls within the primary basin. Therefore, runoff is stored locally until it percolates into the ground or stages high enough to pop-off into an adjacent sub-basin.

Proposed Roadway Improvements

The proposed roadway improvements to I-75 will require new stormwater management controls to mitigate for the existing permitted systems and to address the roadway widening for the interim and ultimate roadway configurations. The interim design approach is to design new Auxiliary lanes that will begin at the interchange on-ramps and extend to the next interchange, where these lanes will become the off-ramp lanes.



The ultimate roadway typical section for I-75 consists of 12-lanes, four (4) General Use lanes and two (2) Express Lanes in each direction. Stormwater runoff from the proposed roadway improvements will be collected and conveyed in both open and closed storm drain systems and routed to stormwater management facilities located throughout the I-75 corridor for treatment and attenuation. Offsite drainage patterns will remain unchanged and runoff that currently drains towards the FDOT right of way will be collected and conveyed by diversion ditches that preserve the existing drainage patterns and discharge to the existing receiving waterbodies, where feasible, otherwise, the offsite flow will be incorporated into the stormwater management system for the specific subbasin.

This pond siting evaluation was prepared to provide information on potential stormwater management facilities that serve as viable hydraulic options in managing runoff from the proposed roadway improvements. Based on this information, we evaluated the existing overland topography, existing soils data, FEMA designated Floodplain areas and land uses along both side of I-75 to identify hydraulically feasible pond site alternatives to manage the stormwater runoff for the ultimate build-out of I-75. Additional considerations included seasonal high groundwater table elevation (SHWT), wetland jurisdictional boundaries, designated floodplain boundaries, contamination screenings, cultural

resources investigations, geologic (karst) features, and a thorough review of the corridor and surrounding areas.

The approach to the preliminary pond sizing included providing treatment volume for the additional impervious area and not the entire FDOT right of way area. However, the proposed pond site alternatives were also sized conservatively to account for the ultimate I-75 roadway typical section condition having a 300-feet wide right-of-way footprint throughout this portion of the project. Therefore, it was assumed that 90-percent of the ultimate build-out typical section would consist of impervious area due to the safety requirements associated with the expanded interstate corridor. Dry retention ponds are proposed in all basins due to the "Closed Basin" characteristics noted throughout much of the project. The southern limits of the project with Sumter County, will be evaluated for wet detention since this area is within an "Open Basin" with positive outfall to the Withlacoochee River. The preliminary pond sizes have been calculated accounting for attenuation based on volumetric differences in runoff predicted by the National Resources Conservation Service (NRCS) equation for runoff for the 100-year, 240-hour storm. However, the calculations do not consider percolation of the soil below the pond bottom. Therefore, some of the ponds may be able to provide less volume than the calculations illustrate due to high permeability rates and vertical separation between the pond bottom and the water table/confining layer.

Based on this information, the general design strategy for the pond site alternatives and stormwater conveyance is as follows:

- Maintain the existing drainage patterns, cross drain locations and sizes, and outfall locations.
- Provide treatment volume for the proposed additional impervious area and not the entire right-of-way.
- Identify three (3) pond site alternatives, at a minimum, for each drainage basin.
- Each pond site alternative is designed to retain 100-year/10-day volume to satisfy the Closed Basin criteria.
- Dry retention is the preferred stormwater management strategy.
- For the purposes of the pond siting efforts, no geotechnical data was collected for the proposed pond alternatives.
- Design considerations will include considerations for the existing the karst conditions associated with the shallow clay and limestone subsurface throughout Marion County

All of the pond site alternatives are displayed on the Pond Right-of-Way Sheets in Appendix A. The following sections provide more detailed information for each of the basins along the corridor.

Drainage Basin and Pond Siting Descriptions

BASIN 9

Basin 9 extends approximately from STA 1512+00 to 1464+00 (5,550 ft). There is a Station Equation at the Sumter/Marion County Lines that alters the stationing along I-75 as follows: STA 1525+64.00(Back)/STA 1422+88.98(Ahead). Runoff contributing areas from this basin consists of the roadway right-of-way between those stations and offsite contributions from both sides of I-75. The existing onsite basin area is

38.22 acres, of which 11.11 acres are impervious area. In the existing conditions, runoff from Basin 9 flows to conveyance swales along both sides of I-75.

Basin 9 is a Closed Basin; therefore, there is no positive outfall for this basin. The low point along the existing edge of pavement is located near STA 1437+30. There is an existing 36" cross drain near STA 1438+80 connecting the swales on both sides of the road. Additionally, there are six (6) cross drains that convey the runoff from one side of the road to the roadside swales.

Three (3) pond site alternatives were evaluated on either side of I-75 to address the stormwater management needs for this basin. The preliminary sizing calculations are provided in Appendix B of this Report. Based on the evaluation criteria used to assess each pond site alternative, Pond 9-2 on the west side of I-75 between Stations 1445+00 and 1455+00 is the recommended alternative. Please refer to Table 2 for the Pond Siting Evaluation Matrix and the parameters used to assess each potential pond site. Similarly, the low edge of pavement for this basin is approximately elevation 62.0-feet, NAVD, near Station 1437+30. The preliminary pond results produced a peak stage elevation of 59.0-feet, NAVD. Therefore, the proposed pond has the hydraulic capacity to manage the stormwater runoff from this basin and minimizes the potential for the Hydraulic Grade Line (HGL) to directly cause roadway flooding.

BASIN 10

Basin 10 extends approximately from STA 1464+00 to 1505+50 (4,150 ft). Runoff contributing areas from this basin consists of the roadway right-of-way between those stations and offsite contributions from both sides of I-75. The existing onsite basin area is 28.66 acres, of which 8.40 acres are impervious area. In the existing conditions, runoff from Basin 10 flows to conveyance swales along both sides of I-75.

Basin 10 is a Closed Basin therefore there is no positive outfall for this basin. The low point along the existing edge of pavement is located near STA 1473+90. There is an existing 24" cross drain near STA 1473+00 connecting the swales on both sides of the road. Additionally, there are three (3) cross drains that convey the runoff from one side of the road to the roadside swales.

Three (3) pond site alternatives were evaluated on either side of I-75 to address the stormwater management needs for this basin. The preliminary sizing calculations are provided in Appendix B of this Report. Based on the evaluation criteria used to assess each pond site alternative, Pond 10-3 on the west side of I-75 between Stations 1464+00 and 1472+00 is the recommended alternative. Please refer to Table 2 for the Pond Siting Evaluation Matrix and the parameters used to assess each potential pond site. Similarly, the low edge of pavement for this basin is approximately elevation 63.0-feet, NAVD, near Station 1473+90. The preliminary pond results produced a peak stage elevation of 59.0-feet, NAVD. Therefore, the proposed pond has the hydraulic capacity to manage the stormwater runoff from this basin and minimizes the potential for the Hydraulic Grade Line (HGL) to directly cause roadway flooding.

BASIN 11

Basin 11 extends approximately from STA 1505+50 to 1545+00 (3,950 ft). Runoff contributing areas from this basin consists of the roadway right-of-way between those stations and offsite contributions from both sides of I-75. The existing onsite basin area is 27.14 acres, of which 7.96 acres are impervious area. In the existing conditions, runoff from Basin 11 flows to conveyance swales along both sides of I-75.

Basin 11 is a Closed Basin therefore there is no positive outfall for this basin. The low point along the existing edge of pavement is located near STA 1540+00. There is an existing 30" cross drain near STA

1539+00 connecting the swales on both sides of the road. Additionally, there are three (3) cross drains that convey the runoff from one side of the road to the roadside swales.

Three (3) pond site alternatives were evaluated on either side of I-75 to address the stormwater management needs for this basin. However, due to coordination issues with property owners in Basin 12 and the willingness of the property owner to sell their land as part of Pond Alternative 11-1, a new pond alternative was developed to address stormwater management in both Basin 11 and 12. The preliminary sizing calculations are provided in Appendix B of this Report. Currently, Pond Alternative 11-1 is the preferred site, which is on the east side of I-75 between Stations 1525+00 and 1532+00. If Basin 12 is included into Basin 11 based on the willingness of the property owner to work with FDOT, Pond Alternative 11-4/12-4 on the east side of I-75 between Stations 1525+00 and 1539+00 will become the preferred alternative for both basins. Please refer to Table 2 for the Pond Siting Evaluation Matrix and the parameters used to assess each potential pond site. Similarly, the low edge of pavement for this basin is approximately elevation 61.0-feet, NAVD, near Station 1540+00. The preliminary pond results produced a peak stage elevation of 59.0-feet, NAVD. Therefore, the proposed pond has the hydraulic capacity to manage the stormwater runoff from this basin and minimizes the potential for the Hydraulic Grade Line (HGL) to directly cause roadway flooding.

BASIN 12

Basin 12 extends approximately from STA 1545+00 to 1596+50 (5,150 ft). Runoff contributing areas from this basin consists of the roadway right-of-way between those stations and offsite contributions from both sides of I-75. The existing onsite basin area is 41.80 acres, of which 10.40 acres are impervious area. In the existing conditions, runoff from Basin 12 flows to conveyance swales along both sides of I-75. Ocala Weigh Station starts from near STA 1550+00. There are 6 regular ponds around the weigh station that are within offsite areas of Basin 12.

Basin 12 is a Closed Basin therefore there is no positive outfall for this basin. The low point along the existing edge of pavement is located near STA 1544+00. There is an existing 30” cross drain near STA 1588+00 connecting the swales on both sides of the road.

Three (3) pond site alternatives were evaluated on either side of I-75 to address the stormwater management needs for this basin. The preliminary sizing calculations are provided in Appendix B of this Report. Currently, Pond Alternative 12-1 is the preferred site, which is on the east side of I-75 between Stations 1542+00 and 1549+50. If Basin 12 is included into Basin 11 based on the willingness of the property owner to work with FDOT, Pond Alternative 11-4/12-4 on the east side of I-75 between Stations 1525+00 and 1539+00 will become the preferred alternative for both basins. Please refer to Table 2 for the Pond Siting Evaluation Matrix and the parameters used to assess each potential pond site. Since this is a shared basin and combines with Basin 14, the pond HGL of 59.0-feet, NAVD, is well below the low edge of pavement, which is approximately 61-feet, NAVD.

BASIN 13

Basin 13 extends approximately from STA 1596+50 to 1642+50 (4,600 ft). Runoff contributing areas from this basin consists of the roadway right-of-way between those stations and offsite contributions from both sides of I-75. The existing onsite basin area is 37.80 acres, of which 9.29 acres are impervious area. In the existing conditions, runoff from Basin 13 flows to conveyance swales along both sides of I-75. There are also 2 linear ponds in the median, interconnected by MES, that accept stormwater runoff from both sides of I-75 road.

Basin 13 is a Closed Basin; therefore, there is no positive outfall for this basin. The low point along the existing edge of pavement is located near STA 1596+50. There is no cross drain or side drain in this basin.

Three (3) pond site alternatives were evaluated on the west side of I-75 to address the stormwater management needs for this basin. The preliminary sizing calculations are provided in Appendix B of this Report. Based on the evaluation criteria used to assess each pond site alternative, Pond 13-1 on the west side of I-75 between Stations 1605+00 and 1619+00 is the recommended alternative. Please refer to Table 2 for the Pond Siting Evaluation Matrix and the parameters used to assess each potential pond site. Similarly, the low edge of pavement for this basin is approximately elevation 69.0-feet, NAVD, near Station 1596+50. The preliminary pond results produced a peak stage elevation of 67.0-feet, NAVD. Therefore, the proposed pond has the hydraulic capacity to manage the stormwater runoff from this basin and minimizes the potential for the Hydraulic Grade Line (HGL) to directly cause roadway flooding.

BASIN 14

Basin 14 extends approximately from STA 1642+50 to 1669+80 (approximately 2,730 ft). Runoff contributing areas from this basin consists of the roadway right-of-way between those stations and offsite contributions from both sides of I-75. The Existing onsite basin area is 18.80 acres, of which 5.52 acres are impervious areas. In the existing conditions, runoff from Basin 14 flows to conveyance swales along both sides of I-75.

Basin 14 is a Closed Basin therefore there is no positive outfall for this basin. There is an existing 30" cross drain near STA 1655+90 connecting the swales on both sides of the road.

Three (3) pond site alternatives were evaluated on either side of I-75 to address the stormwater management needs for this basin. However, due to various hardships within both Basins 14 and 15, two (2) of the sites 14-1 and 14-3 have been sized to include Basin 15. Pond Site Alternative 14-2 is the only standalone site within Basin 14, which is on the west side of I-75. The preliminary sizing calculations are provided in Appendix B of this Report. Pond Alternative 14-1/15-1 on the east side of I-75 between Stations 1650+00 and 1658+00 is the recommended alternative. Please refer to Table 2 for the Pond Siting Evaluation Matrix and the parameters used to assess each potential pond site. Similarly, the low edge of pavement for this basin is approximately elevation 72.0-feet, NAVD, near Station 1655+90. The preliminary pond results produced a peak stage elevation of 59.0-feet, NAVD. Therefore, the proposed pond has the hydraulic capacity to manage the stormwater runoff from this basin and minimizes the potential for the Hydraulic Grade Line (HGL) to directly cause roadway flooding.

BASIN 15

Basin 15 extends approximately from STA 1669+80 to 1684+80 (approximately 2,500 ft). Runoff contributing areas from this basin consists of the roadway right-of-way between those stations and offsite contributions from both sides of I-75. The Existing onsite basin area is 16.35 acres, of which 3.03 acres are impervious areas. Runoff from Basin 15 flows southward through conveyance swales and depression areas along both sides of the limited access right of way into Basin 14 and continues to the low storage area within the basin.

Basin 15 is a Closed Basin therefore there is no positive outfall for this basin.

Three (3) pond site alternatives were evaluated on either side of I-75 to address the stormwater management needs for this basin. As previously mentioned in the Basin 14 write-up, both Basins 14 and 15, share two (2) of the pond site alternatives 14-1/15-1 and 14-3/15-3 have been sized to include both

basins. Pond Site Alternative 15-2 is the only standalone site within Basin 15, which is on the west side of I-75. The preliminary sizing calculations are provided in Appendix B of this Report. Pond Alternative 14-1/15-1 on the east side of I-75 between Stations 1650+00 and 1658+00 is the recommended alternative. Please refer to Table 2 for the Pond Siting Evaluation Matrix and the parameters used to assess each potential pond site. Since this is a shared basin and combines with Basin 14, the pond HGL of 59.0-feet, NAVD, is well below the low edge of pavement, which is approximately 72.0-feet, NAVD.

BASIN 16

Basin 16 contains the northern half of the I-75/Hwy 484 interchange and extends from STA 1684+80 to 1722+00 (3,720 ft). The onsite roadway right-of-way between those stations and offsite contributions from the west side of the I-75. The existing onsite basin area is 31.45 acres, of which 7.52 acres are impervious area. In the existing conditions, runoff from Basin 16 flows to conveyance swales and depression areas along both sides of I-75. The northern half of the bridge and the surrounding areas discharge to Basin 16. The southern half discharges to the adjacent basin (Basin 15).

Basin 16 is a Closed Basin; therefore, there is no positive outfall for this basin. The low point along the existing edge of pavement is located near STA 1704+95. There is an existing 30" cross drain near STA 1695+95 that conveys the runoff from the west side of the road to the roadside swales.

Three (3) pond site alternatives were evaluated on either side of I-75 to address the stormwater management needs for this basin. The preliminary sizing calculations are provided in Appendix B of this Report. Pond Alternative 16-3 on the east side of I-75 between Stations 1734+00 and 1740+00 is the recommended alternative. Please refer to Table 2 for the Pond Siting Evaluation Matrix and the parameters used to assess each potential pond site. Similarly, the low edge of pavement for this basin is approximately elevation 76.0-feet, NAVD, near Station 1704+95. The preliminary pond results produced a peak stage elevation of 72.0-feet, NAVD. Therefore, the proposed pond has the hydraulic capacity to manage the stormwater runoff from this basin and minimizes the potential for the Hydraulic Grade Line (HGL) to directly cause roadway flooding.

BASIN 17

Basin 17 is located north of Hwy 484 and extends approximately from STA 1722+00 to 1768+00 (4,600 ft). Runoff contributing areas from this basin consists of the roadway right-of-way between those stations and offsite contributions from both sides of the I-75. The existing onsite basin area is 56.94 acres, of which 9.29 acres are impervious area. Flood Compensation is estimated at 3.65 acres-ft. In the existing conditions, runoff from Basin 17 flows to conveyance swales along both sides of I-75.

Basin 17 is a Closed Basin therefore there is no positive outfall for this basin. The low point along the existing edge of pavement is located near STA 1756+80. There is an existing 30" cross drain near STA 1756+80 connecting the swales on both sides of the road.

Three (3) pond site alternatives were evaluated on either side of I-75 to address the stormwater management needs for this basin. The preliminary sizing calculations are provided in Appendix B of this Report. Pond Alternative 17-2 on the west side of I-75 between Stations 1742+50 and 1750+00 is the recommended alternative. Please refer to Table 2 for the Pond Siting Evaluation Matrix and the parameters used to assess each potential pond site. Similarly, the low edge of pavement for this basin is approximately elevation 57.0-feet, NAVD, near Station 1756+80. The preliminary pond results produced a peak stage elevation of 53.0-feet, NAVD. Therefore, the proposed pond has the hydraulic capacity to

manage the stormwater runoff from this basin and minimizes the potential for the Hydraulic Grade Line (HGL) to directly cause roadway flooding.

BASIN 18

Basin 18 is located near Cross Seminole Trail and extends approximately from STA 1768+00 to 1792+00 (2,400 ft). Runoff contributing areas from this basin consists of the roadway right-of-way between those stations and offsite contributions from both sides of the I-75. The existing onsite basin area is 32.15 acres, of which 4.88 acres are impervious area. Flood Compensation is estimated at 2.97 acres-ft. In the existing conditions, runoff from Basin 18 flows to conveyance swales along both sides of I-75 and an offsite depression area on the west side of the road near STA 1788+00. Cross Seminole Trail bridges over I-75 near STA 1789+00. The bridge and a portion of the Trail are within onsite areas of Basin 18.

Basin 18 is a Closed Basin therefore there is no positive outfall for this basin. The low point along the existing edge of pavement is located near STA 946+00. There are two (2) cross drains that convey the runoff from one side of the road to the roadside swales.

Three (3) pond site alternatives were evaluated on either side of I-75 to address the stormwater management needs for this basin. The preliminary sizing calculations are provided in Appendix B of this Report. Based on our discussion with the District Drainage Office, the approach for both Basins 18 and 19 is to pursue Line Easements through SJRWMD and prevent significant impacts to the adjacent State TIFF Land associated Cross Seminole Trail. These Line Easements would essentially allow the FDOT to document the increased stormwater runoff created by the I-75 roadway widening that will be discharged directly through the existing TIFF Easement Line without impacting the preservation area within the TIFF property. This approach has been permitted in the past for other District 5 roadway project that also involved State TIFF property. However, the preferred pond site is currently Pond Alternative 18-4, which is located on the east side of I-75 between Stations 1768+00 and 1792+00. Please refer to Table 2 for the Pond Siting Evaluation Matrix and the parameters used to assess each potential pond site.

BASIN 19

Basin 19 is located northwest of Cross Seminole Trail and extends approximately from STA 1792+00 to 1821+50 (2,950 ft). Runoff contributing areas from this basin consists of the roadway right-of-way between those stations and offsite contributions from both sides of the I-75. The existing onsite basin area is 25.00 acres, of which 5.86 acres are impervious area. In the existing conditions, runoff from Basin 19 flows to conveyance swales along both sides of I-75.

Basin 19 is a Closed Basin therefore there is no positive outfall for this basin. The low point along the existing edge of pavement is located near STA 1802+90. There is an existing 24” cross drain near STA 1802+90 connecting the swales on both sides of the road.

Three (3) pond site alternatives were evaluated on either side of I-75 to address the stormwater management needs for this basin. The preliminary sizing calculations are provided in Appendix B of this Report. Based on our discussion with the District Drainage Office, the approach for both Basins 18 and 19 is to pursue Line Easements through SJRWMD and prevent significant impacts to the adjacent State TIFF Land associated Cross Seminole Trail. These Line Easements would essentially allow the FDOT to document the increased stormwater runoff created by the I-75 roadway widening that will be discharged directly through the existing TIFF Easement Line without impacting the preservation area within the TIFF property. This approach has been permitted in the past for other District 5 roadway project that also involved State TIFF property. However, the preferred pond site is currently Pond Alternative 19-4, which

is located on the west side of I-75 between Stations 1803+00 and 1810+00 is the recommended alternative. Please refer to Table 2 for the Pond Siting Evaluation Matrix and the parameters used to assess each potential pond site.

BASIN 20

Basin 20 extends approximately from STA 1821+50 to 1835+00 (1,350 ft). Runoff contributing areas from this basin consists of the roadway right-of-way between those stations and offsite contributions from both sides of the I-75. The existing onsite basin area is 9.30 acres, of which 2.73 acres are impervious area. In the existing conditions, runoff from Basin 20 flows to conveyance swales along both sides of I-75.

Basin 20 is a Closed Basin therefore there is no positive outfall for this basin. The low point along the existing edge of pavement is located near STA 1834+00. There is an existing 24" cross drain near STA 1825+90 connecting the swales on both sides of the road.

Three (3) pond site alternatives were evaluated on either side of I-75 to address the stormwater management needs for this basin. The preliminary sizing calculations are provided in Appendix B of this Report. Pond Alternative 20-2 on the east side of I-75 between Stations 1829+00 and 1834+00 is the recommended alternative. Please refer to Table 2 for the Pond Siting Evaluation Matrix and the parameters used to assess each potential pond site. Similarly, the low edge of pavement for this basin is approximately elevation 87.0-feet, NAVD, near Station 1834+00. The preliminary pond results produced a peak stage elevation of 84.0-feet, NAVD. Therefore, the proposed pond has the hydraulic capacity to manage the stormwater runoff from this basin and minimizes the potential for the Hydraulic Grade Line (HGL) to directly cause roadway flooding.

BASIN 21

Basin 21 extends approximately from STA 1835+00 to 1857+00 (2,200 ft). Runoff contributing areas from this basin consists of the roadway right-of-way between those stations and offsite contributions from both sides of the I-75. The existing onsite basin area is 23.42 acres, of which 4.44 acres are impervious area. Flood Compensation is estimated at 1.13 acres-ft. In the existing conditions, runoff from Basin 21 flows to conveyance swales along both sides of I-75.

Basin 21 is a Closed Basin therefore there is no positive outfall for this basin. The low point along the existing edge of pavement is located near STA 1837+00. There are two (2) existing cross drains connecting the swales on both sides of the road.

Three (3) pond site alternatives were evaluated on either side of I-75 to address the stormwater management needs for this basin. The preliminary sizing calculations are provided in Appendix B of this Report. Pond Alternative 21-1 on the east side of I-75 between Stations 1851+00 and 1863+00 is the recommended alternative. Please refer to Table 2 for the Pond Siting Evaluation Matrix and the parameters used to assess each potential pond site. Similarly, the low edge of pavement for this basin is approximately elevation 88.0-feet, NAVD, near Station 1837+00. The preliminary pond results produced a peak stage elevation of 85.0-feet, NAVD. Therefore, the proposed pond has the hydraulic capacity to manage the stormwater runoff from this basin and minimizes the potential for the Hydraulic Grade Line (HGL) to directly cause roadway flooding.

BASIN 22

Basin 22 extends approximately from STA 1857+00 to 1889+00 (3,200 ft). Runoff contributing areas from this basin consists of the roadway right-of-way between those stations and offsite contributions from both sides of the I-75. The existing onsite basin area is 14.14 acres, of which 6.46 acres are impervious area. Flood Compensation is estimated at 0.48 acres-ft. In the existing conditions, runoff from Basin 22 flows to conveyance swales along both sides of I-75 and a linear median pond starting from approximately STA 1872+00. The linear pond continues north to the adjacent Basin 23.

Basin 22 is a Closed Basin therefore there is no positive outfall for this basin. The low point along the existing edge of pavement is located near STA 1875+00. There is an existing 30" cross drain near STA 1865+50 connecting the swales on both sides of the road.

Three (3) pond site alternatives were evaluated on either side of I-75 to address the stormwater management needs for this basin. The preliminary sizing calculations are provided in Appendix B of this Report. Pond Alternative 22-1 on the east side of I-75 between Stations 1874+00 and 1879+00 is the recommended alternative. Please refer to Table 2 for the Pond Siting Evaluation Matrix and the parameters used to assess each potential pond site. Similarly, the low edge of pavement for this basin is approximately elevation 90.0-feet, NAVD, near Station 1875+00. The preliminary pond results produced a peak stage elevation of 87.0-feet, NAVD. Therefore, the proposed pond has the hydraulic capacity to manage the stormwater runoff from this basin and minimizes the potential for the Hydraulic Grade Line (HGL) to directly cause roadway flooding.

BASIN 23

Basin 23 extends approximately from STA 1889+00 to 1905+00 (1,600 ft). Runoff contributing areas from this basin consists of the roadway right-of-way between those stations and offsite contributions from both sides of the I-75. The existing onsite basin area is 13.81 acres, of which 3.64 acres are impervious area. Flood Compensation is estimated at 1.61 acres-ft. In the existing conditions, runoff from Basin 23 flows to conveyance swales along both sides of I-75 and median linear ponds. There are 3 linear ponds within this basin that are separated by concrete berms.

Basin 23 is a Closed Basin therefore there is no positive outfall for this basin. The low point along the existing edge of pavement is located near STA 1898+90. There is an existing 24" cross drain connecting the swales on both sides of the road and the linear pond near STA 1898+90.

Three (3) pond site alternatives were evaluated on either side of I-75 to address the stormwater management needs for this basin. The preliminary sizing calculations are provided in Appendix B of this Report. Pond Alternative 23-1 on the east side of I-75 between Stations 1894+00 and 1898+00 is the recommended alternative. Please refer to Table 2 for the Pond Siting Evaluation Matrix and the parameters used to assess each potential pond site. Similarly, the low edge of pavement for this basin is approximately elevation 87.0-feet, NAVD, near Station 1898+90. The preliminary pond results produced a peak stage elevation of 81.0-feet, NAVD. Therefore, the proposed pond has the hydraulic capacity to manage the stormwater runoff from this basin and minimizes the potential for the Hydraulic Grade Line (HGL) to directly cause roadway flooding.

BASIN 24

Basin 24 extends approximately from STA 1905+00 to 1925+00 (2,000 ft). Runoff contributing areas from this basin consists of the roadway right-of-way between those stations and offsite contributions from both sides of the I-75. The existing onsite basin area is 14.00 acres, of which 4.04 acres are impervious area. In the existing conditions, runoff from Basin 24 flows to conveyance swales along both sides of I-75 and a linear median pond. The bulk of the linear pond is in the adjacent Basin 23 and the northern part extends into Basin 24 for about 400 ft ending near STA 1909+00.

Basin 24 is a Closed Basin therefore there is no positive outfall for this basin. The low point along the existing edge of pavement is located near STA 1910+90. There is an existing 30" cross drain connecting the swales on both sides of the road near STA 1910+90.

Three (3) pond site alternatives were evaluated on either side of I-75 to address the stormwater management needs for this basin. The preliminary sizing calculations are provided in Appendix B of this Report. Pond Alternative 24-1 on the east side of I-75 between Stations 1911+00 and 1918+00 is the recommended alternative. Please refer to Table 2 for the Pond Siting Evaluation Matrix and the parameters used to assess each potential pond site. Similarly, the low edge of pavement for this basin is approximately elevation 87.0-feet, NAVD, near Station 1910+90. The preliminary pond results produced a peak stage elevation of 82.0-feet, NAVD. Therefore, the proposed pond has the hydraulic capacity to manage the stormwater runoff from this basin and minimizes the potential for the Hydraulic Grade Line (HGL) to directly cause roadway flooding.

BASIN 25

Basin 25 extends approximately from STA 1925+00 to 1940+80 (1,580 ft). Runoff contributing areas from this basin consists of the roadway right-of-way between those stations and offsite contributions from both sides of the I-75. The existing onsite basin area is 10.92 acres, of which 3.20 acres are impervious area. Flood Compensation is estimated at 1.79 acres-ft. In the existing conditions, runoff from Basin 25 flows to conveyance swales along both sides of I-75 and a depression area near STA 1928+00.

Basin 25 is a Closed Basin therefore there is no positive outfall for this basin. The low point along the existing edge of pavement is located near STA 1938+00. There is an existing 30" cross drain connecting the swales on both sides of the road near STA 1937+90.

Three (3) pond site alternatives were evaluated on either side of I-75 to address the stormwater management needs for this basin. The preliminary sizing calculations are provided in Appendix B of this Report. Pond Alternative 25-1/26-1 on the east side of I-75 between Stations 1935+00 and 1941+50 is the recommended alternative. Please refer to Table 2 for the Pond Siting Evaluation Matrix and the parameters used to assess each potential pond site. Similarly, the low edge of pavement for this basin is approximately elevation 87.0-feet, NAVD, near Station 1938+00. The preliminary pond results produced a peak stage elevation of 78.0-feet, NAVD. Therefore, the proposed pond has the hydraulic capacity to manage the stormwater runoff from this basin and minimizes the potential for the Hydraulic Grade Line (HGL) to directly cause roadway flooding.

BASIN 26

Basin 26 extends approximately from STA 1940+80 to 1963+60 (2,280 ft). Runoff contributing areas from this basin consists of the roadway right-of-way between those stations and offsite contributions from both sides of the I-75. The existing onsite basin area is 15.74 acres, of which 4.61 acres are impervious area. There is a Rest Area on both sides of the road from near STA 1118+00 to 1146+00. In the existing conditions, runoff from Basin 26 flows to conveyance swales along both sides of I-75 and inline ponds serving both Basin 26 and the Rest Area. Most of the Rest Area lies within the offsite areas. Only the Rest Area's parking lot closest to the road is within Basin 26 onsite areas.

There are 4 inline ponds serving both this basin and the Rest Area: 2 ponds on each side of the road. The inline ponds are near STA 1943+95 and 1954+95 on the east side, and STA 1953+95 and 1964+95 on the west side.

Basin 26 is a Closed Basin therefore there is no positive outfall for this basin. The low point along the existing edge of pavement is located near STA 1972+75. There is an 18" cross drain that conveys the runoff from the west side of the road to the roadside swales near STA 1951+95.

Three (3) pond site alternatives were evaluated on the east side of I-75 to address the stormwater management needs for this basin. The preliminary sizing calculations are provided in Appendix B of this Report. As noted in Basin 25, Pond Alternative 25-1/26-1 on the east side of I-75 between Stations 1935+00 and 1941+50 is the recommended alternative. Please refer to Table 2 for the Pond Siting Evaluation Matrix and the parameters used to assess each potential pond site. Since this is a shared basin and combines with Basin 25, the pond HGL of 78.0-feet, NAVD, is well below the low edge of pavement, which is approximately 87.0-feet, NAVD.

BASIN 27

Basin 27 extends approximately from STA 1963+60 to 1993+00 (2,940 ft). Runoff contributing areas from this basin consists of the roadway right-of-way between those stations and offsite contributions from both sides of the I-75. The existing onsite basin area is 13.88 acres, of which 4.07 acres are impervious area. Flood Compensation is estimated at 1.71 acres-ft. In the existing conditions, runoff from Basin 27 flows to conveyance swales along both sides of I-75.

Basin 27 is a Closed Basin therefore there is no positive outfall for this basin. The low point along the existing edge of pavement is located near STA 1965+75. There is an existing 30" cross drain connecting the swales on both sides of the road near STA 1976+90.

Three (3) pond site alternatives were evaluated on either side of I-75 to address the stormwater management needs for this basin. The preliminary sizing calculations are provided in Appendix B of this Report. Pond Alternative 27-3 on the east side of I-75 between Stations 1974+00 and 1980+00 is the recommended alternative. Please refer to Table 2 for the Pond Siting Evaluation Matrix and the parameters used to assess each potential pond site. Similarly, the low edge of pavement for this basin is approximately elevation 75.0-feet, NAVD, near Station 1965+75. The preliminary pond results produced a peak stage elevation of 71.0-feet, NAVD. Therefore, the proposed pond has the hydraulic capacity to manage the stormwater runoff from this basin and minimizes the potential for the Hydraulic Grade Line (HGL) to directly cause roadway flooding.

BASIN 28

Basin 28 extends approximately from STA 1993+00 to 2016+20 (2,320 ft). Runoff contributing areas from this basin consists of the roadway right-of-way between those stations and offsite contributions from both sides of the I-75. The existing onsite basin area is 16.08 acres, of which 4.72 acres are impervious area. Flood Compensation is estimated at 2.23 acres-ft. In the existing conditions, runoff from Basin 28 flows to conveyance swales along both sides of I-75.

Basin 28 is a Closed Basin therefore there is no positive outfall for this basin. The low point along the existing edge of pavement is located near STA 2001+50. There is an existing 24" cross drain connecting the swales on both sides of the road near STA 2001+50. Additionally, there are two (2) 20" cross drains that convey the runoff from the west side of the road to the roadside swales.

Three (3) pond site alternatives were evaluated on either side of I-75 to address the stormwater management needs for this basin. The preliminary sizing calculations are provided in Appendix B of this Report. Pond Alternative 28-1 on the east side of I-75 between Stations 2001+00 and 2007+00 is the recommended alternative. Please refer to Table 2 for the Pond Siting Evaluation Matrix and the parameters used to assess each potential pond site. Similarly, the low edge of pavement for this basin is approximately elevation 79.0-feet, NAVD, near Station 2001+50. The preliminary pond results produced a peak stage elevation of 78.0-feet, NAVD. Therefore, the proposed pond has the hydraulic capacity to manage the stormwater runoff from this basin and minimizes the potential for the Hydraulic Grade Line (HGL) to directly cause roadway flooding.

BASIN 29

Basin 29 extends approximately from STA 2016+20 to 2043+00 (2,680 ft). Runoff contributing areas from this basin consists of the roadway right-of-way between those stations and offsite contributions from east side of the I-75. The existing onsite basin area is 18.36 acres, of which 5.38 acres are impervious area. Flood Compensation is estimated at 2.15 acres-ft. In the existing conditions, runoff from Basin 29 flows to conveyance swales along both sides of I-75.

Basin 28 is a Closed Basin therefore there is no positive outfall for this basin. The low point along the existing edge of pavement is located near STA 2016+20. There is an existing 24" cross drain connecting the swales on both sides of the road near STA 2029+00.

Three (3) pond site alternatives were evaluated on either side of I-75 to address the stormwater management needs for this basin. The preliminary sizing calculations are provided in Appendix B of this Report. Pond Alternative 29-1 on the east side of I-75 between Stations 2013+00 and 2017+00 is the recommended alternative. Please refer to Table 2 for the Pond Siting Evaluation Matrix and the parameters used to assess each potential pond site. Similarly, the low edge of pavement for this basin is approximately elevation 80.0-feet, NAVD, near Station 2016+20. The preliminary pond results produced a peak stage elevation of 79.0-feet, NAVD. Therefore, the proposed pond has the hydraulic capacity to manage the stormwater runoff from this basin and minimizes the potential for the Hydraulic Grade Line (HGL) to directly cause roadway flooding.

BASIN 30

Basin 30 extends approximately from STA 2043+00 to 2091+00 (4,800 ft). Runoff contributing areas from this basin consists of the roadway right-of-way between those stations and offsite contributions from both sides of the I-75. The existing onsite basin area is 33.06 acres, of which 9.70 acres are impervious area. Flood Compensation is estimated at 5.19 acres-ft. In the existing conditions, runoff from Basin 30 flows to conveyance swales and low-lying areas along both sides of I-75.

Basin 30 is a Closed Basin; therefore, there is no positive outfall for this basin. The low point along the existing edge of pavement is located near STA 2091+00. There is an existing cross drain connecting the swales on both sides of the road near STA 2052+00 that consists of an 18" pipe on the east side and a 24" pipe on the west side.

Three (3) pond site alternatives were evaluated on either side of I-75 to address the stormwater management needs for this basin. The preliminary sizing calculations are provided in Appendix B of this Report. Pond Alternative 30-3 on the west side of I-75 between Stations 2072+00 and 2080+00 is the recommended alternative. Please refer to Table 2 for the Pond Siting Evaluation Matrix and the parameters used to assess each potential pond site. Similarly, the low edge of pavement for this basin is approximately elevation 82.0-feet, NAVD, near Station 2091+00. The preliminary pond results produced a peak stage elevation of 78.0-feet, NAVD. Therefore, the proposed pond has the hydraulic capacity to manage the stormwater runoff from this basin and minimizes the potential for the Hydraulic Grade Line (HGL) to directly cause roadway flooding.

BASIN 31

Basin 31 extends approximately from STA 2091+00 to 2126+80 (3,580 ft). Runoff contributing areas from this basin consists of the roadway right-of-way between those stations and offsite contributions from both sides of the I-75. The existing onsite basin area is 24.69 acres, of which 7.24 acres are impervious area. Flood Compensation is estimated at 11.35 acres-ft. In the existing conditions, runoff from Basin 31 flows to conveyance swales along both sides of I-75.

Basin 31 is a Closed Basin therefore there is no positive outfall for this basin. The low point along the existing edge of pavement is located near STA 2106+80. There is an existing 36" cross drain connecting the swales on both sides of the road near STA 2106+80.

Three (3) pond site alternatives were evaluated on either side of I-75 to address the stormwater management needs for this basin. The preliminary sizing calculations are provided in Appendix B of this Report. Pond Alternative 31-1 on the west side of I-75 between Stations 2108+00 and 2118+00 is the recommended alternative. Please refer to Table 2 for the Pond Siting Evaluation Matrix and the parameters used to assess each potential pond site. Similarly, the low edge of pavement for this basin is approximately elevation 75.0-feet, NAVD, near Station 2106+80. The preliminary pond results produced a peak stage elevation of 73.0-feet, NAVD. Therefore, the proposed pond has the hydraulic capacity to manage the stormwater runoff from this basin and minimizes the potential for the Hydraulic Grade Line (HGL) to directly cause roadway flooding.

BASIN 32

Basin 32 extends approximately from STA 2126+80 to 2159+00 (3,220 ft). Basin 32 contains half of I-75/SR 200 interchange and I-75/SW 43rd St. Runoff contributing areas from this basin consists of the roadway right-of-way between those stations and offsite contributions from both sides of the I-75. The existing onsite basin area is 31.28 acres, of which 6.51 acres are impervious area. Flood Compensation is estimated at 9.24 acres-ft. In the existing conditions, runoff from Basin 32 flows to conveyance swales along both sides of I-75. The northern half of the interchange discharges to the adjacent basin (Basin 33).

There are 2 inline ponds on the east side of I-75 ramp to SR 200 near STA 2146+00 and STA 2150+00 that receive stormwater discharge from the road and are within this basin's onsite areas.

Basin 32 is a Closed Basin therefore there is no positive outfall for this basin. The low point along the existing edge of pavement is located near STA 2146+50. There is an existing 24" cross drain connecting the swales on both sides of the road near STA 2145+80.

Three (3) pond site alternatives were evaluated on either side of I-75 to address the stormwater management needs for this basin. The preliminary sizing calculations are provided in Appendix B of this Report. Pond Alternative 32-3 on the east side of I-75 between Stations 2139+00 and 2144+00 is the recommended alternative. Please refer to Table 2 for the Pond Siting Evaluation Matrix and the parameters used to assess each potential pond site. Similarly, the low edge of pavement for this basin is approximately elevation 76.0-feet, NAVD, near Station 2146+50. The preliminary pond results produced a peak stage elevation of 74.0-feet, NAVD. Therefore, the proposed pond has the hydraulic capacity to manage the stormwater runoff from this basin and minimizes the potential for the Hydraulic Grade Line (HGL) to directly cause roadway flooding.

Floodplain Considerations

We have reviewed the Federal Emergency Management Agency's (FEMA) National Flood Hazard Layer (NFHL) Viewer and noted numerous designated flood hazard areas throughout the project limits. The Flood Insurance Rate Maps (FIRMs) are dated either 2013 or 2017 and the designations are primary Zone A (areas prone to flooding with a Base Flood Elevation and Zone AE (area with established Base Flood Elevations). For the Interim Auxiliary Lane roadway typical section, all floodplain impacts will be mitigated for within the existing right-of-way through compensatory volume provided within the roadway ditches throughout the I-75 project corridor. Whereas the ultimate roadway typical section is expected to impact all designated floodplain areas identified within the I-75 right-of-way. The floodplain compensation will be sized to provide equivalent flood volumes in a "cup to cup" manner to ensure the existing impacts maintain the historic stages that exist throughout the corridor. All floodplain compensation will be accomplished within the preferred pond site alternatives associated with each encroachment. The anticipated floodplain impacts were estimated using the FEMA floodplain GIS layers and 2' contour maps, and volumes will be replaced by balancing cut/fill either within the R/W, or by the addition of equivalent compensatory volume within the proposed stormwater management facilities. The floodplain

impacts are identified with “Cross Hatching” on the FEMA Floodplain/Soils Maps in Appendix C and summarized in the following table.

Finally, a modified Location Hydraulics Report will be prepared under separate cover in support of the proposed roadway improvements to I-75. Modifications to existing drainage structures such as extending cross drains and median drains included in this project will result in an insignificant change in their capacity to carry floodwater. These modifications will cause minimal increases in flood heights and flood limits which will not result in any significant adverse impacts on the natural and beneficial floodplain values or any significant change in flood risks or damage. There will be no significant change in the potential for interruption or termination of emergency service or emergency evacuation routes as the result of modifications to existing drainage structures. Therefore, it has been determined that this encroachment is not significant.

Table 2 – Pond Evaluation Matrix

Pond Alt.	Predominate Hydrologic Soil Group (HSG)	Hydraulic Considerations	Floodplain Involvement	Wetland Impacts	Construction Costs	Right-of-Way Costs	Pond Rank
9-1	A	2	1	1	1	3	-
9-2	A	1	1	1	1	2	1
9-3	A	2	1	1	1	3	-
10-1	A	2	1	1	1	3	-
10-2	A	1	1	1	1	3	-
10-3	A	1	1	1	1	1	1
11-1	A	1	1	1	1	1	1
11-2	A	1	1	1	2	2	-
11-3	A	1	1	1	2	2	-
12-1	A	1	1	1	1	1	1
12-2	A	1	1	1	2	2	-
12-3	A	1	1	1	1	2	-
13-1	A	1	1	1	2	1	1
13-2	A	1	1	1	2	2	-
13-3	A	1	1	1	2	2	-
14-1	A	1	1	1	2	2	-
14-2	A	2	2	1	2	3	-
14-3	A	1	1	1	1	3	-
14-1/15-1	A	1	1	1	2	2	1
14-3/15-3	A	1	1	1	2	2	-
15-1	C	2	1	1	2	2	-
15-2	C	2	1	1	2	3	-
15-3	C	2	1	1	1	3	-
16-1	A	1	1	1	2	3	-
16-2	A	1	1	1	2	3	-
16-3	A	1	1	1	1	2	1
17-1	A	2	1	1	2	3	-

17-2	A	2	1	1	2	3	1
17-3	A	1	1	1	2	3	-
18-1	A	2	1	1	2	3	-
18-2	A	1	1	1	2	3	-
18-3	A	1	1	1	2	3	-
18-4	A	1	1	1	1	1	1
18	A	A Line Easement is proposed within the State TIFF Land for this basin.					-
19	A	A Line Easement is proposed within the State TIFF Land for this basin.					-
19-1	A	2	2	2	2	3	-
19-2	A	1	1	1	2	3	-
19-3	A	1	1	1	2	3	-
19-4	A	1	1	1	1	1	1
20-1	A	1	1	1	2	3	-
20-2	A	1	1	1	2	1	1
20-3	A	1	1	1	1	2	-
21-1	A	1	1	1	1	2	1
21-2	A	1	1	1	2	3	-
21-3	A	1	2	2	2	3	-
22-1	A	1	1	1	1	2	1
22-2	A	1	1	1	2	3	-
22-3	A	1	1	1	2	2	-
23-1	A	1	1	1	2	1	1
23-2	A	1	1	1	3	3	-
23-3	A	1	1	1	2	3	-
24-1	A	1	1	1	1	2	1
24-2	A	1	1	1	3	3	-
24-3	A	1	1	1	2	2	-
25-1	A	1	1	1	1	2	-
25-2	A	1	1	1	1	2	-
25-3	A	1	1	1	3	3	-
25-1/26-1	A	1	1	1	2	2	1
26-1	A	1	1	1	1	2	-
26-2	A	1	1	1	1	3	-
26-3	A	2	1	1	1	1	-
27-1	A	1	2	1	2	3	-
27-2	A	1	2	1	2	2	-
27-3	A	1	2	1	1	2	1
28-1	A	1	2	1	2	2	1
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28-3	A	1	2	1	2	3	-
29-1	A	1	2	1	2	2	1
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29-3	A	1	1	1	2	3	-
30-1	A	1	1	2	2	2	-
30-1A	A	1	2	1	1	2	-
30-1B	A	1	1	1	2	2	-

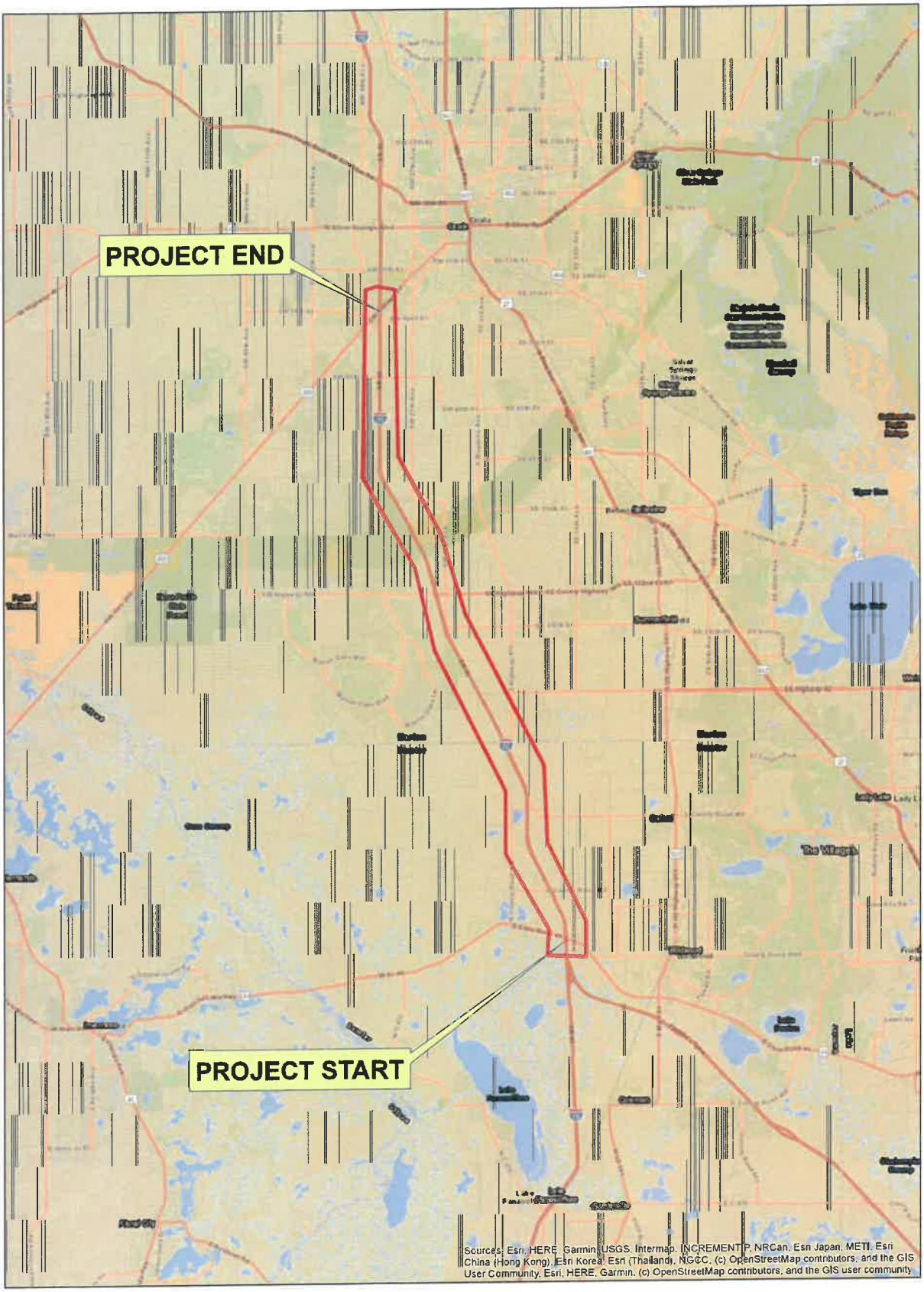
30-2	A	1	2	2	2	2	-
30-3	A	1	1	1	2	2	1
31-1	A	1	1	1	2	2	1
31-2	A	1	2	2	2	2	-
31-3	A	1	1	1	2	3	-
32-1	A	1	2	1	2	3	-
32-2	A	1	1	1	2	3	-
32-3	A	1	2	1	1	2	1

Matrix Legend:

Rating 1 – "Best Case" conditions with little influence on either the environmental or costs associated with the Pond Site Alternative.

Rating 2 – Anticipate environmental impacts and additional costs above the standard for the selected Pond Site Alternative.

Rating 3 – Impacts to the hydraulics and environmental conditions will require significant mitigation. Similarly, construction and right-of-way costs are expected to double as compared to the standard costs.



I-75 FROM FLORIDA TURNPIKE TO SR 200

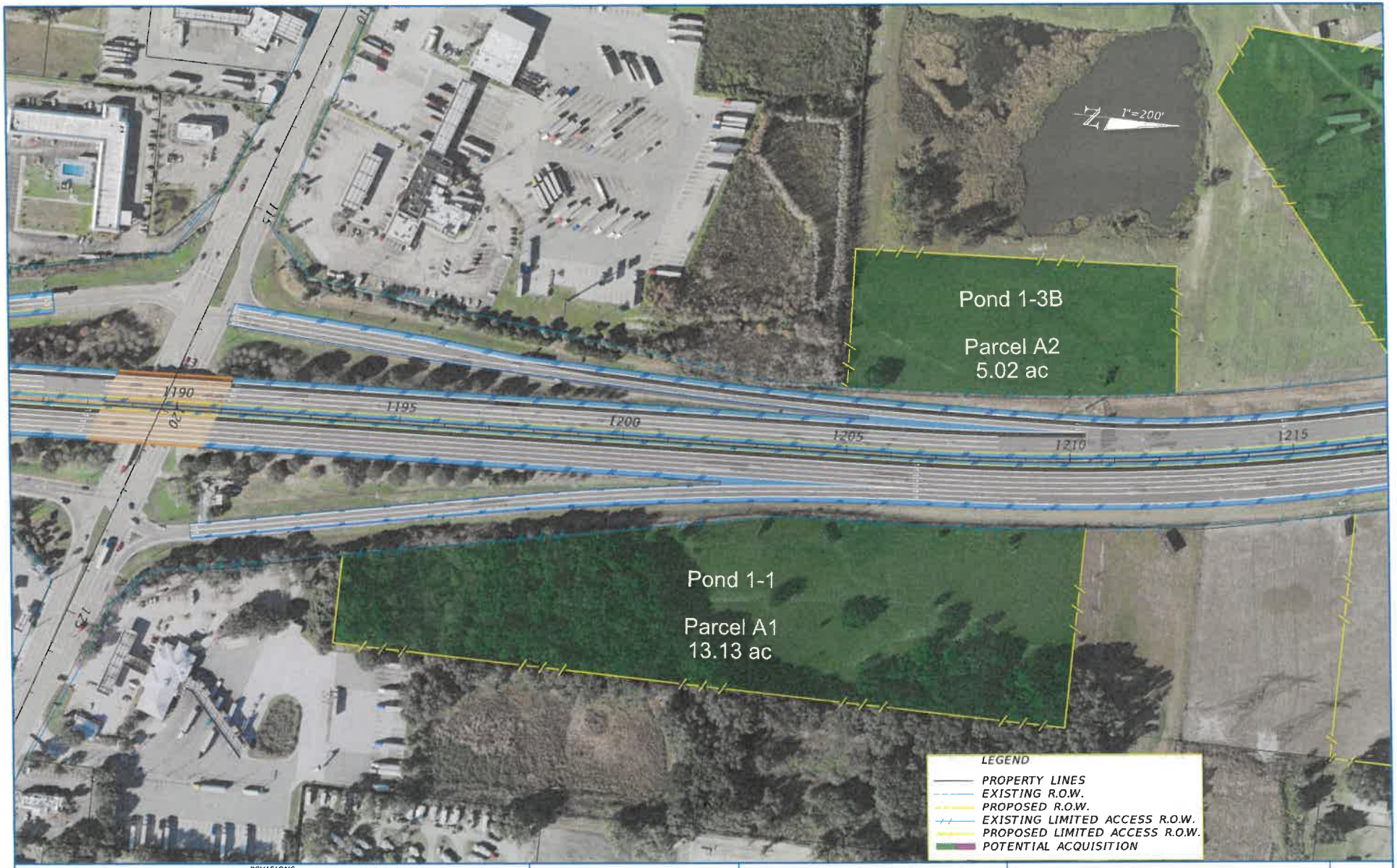
LOCATION MAP

N
W E
S

0 1.25 2.5 5 7.5 10
Miles

APPENDIX A
I-75 Ponds Preliminary Right-of-Way

BURGESS & NIPLE
Engineers ■ Planners



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	SUMTER	452074-2-32-01

I-75 Ponds Preliminary R/W

SHEET NO. 1

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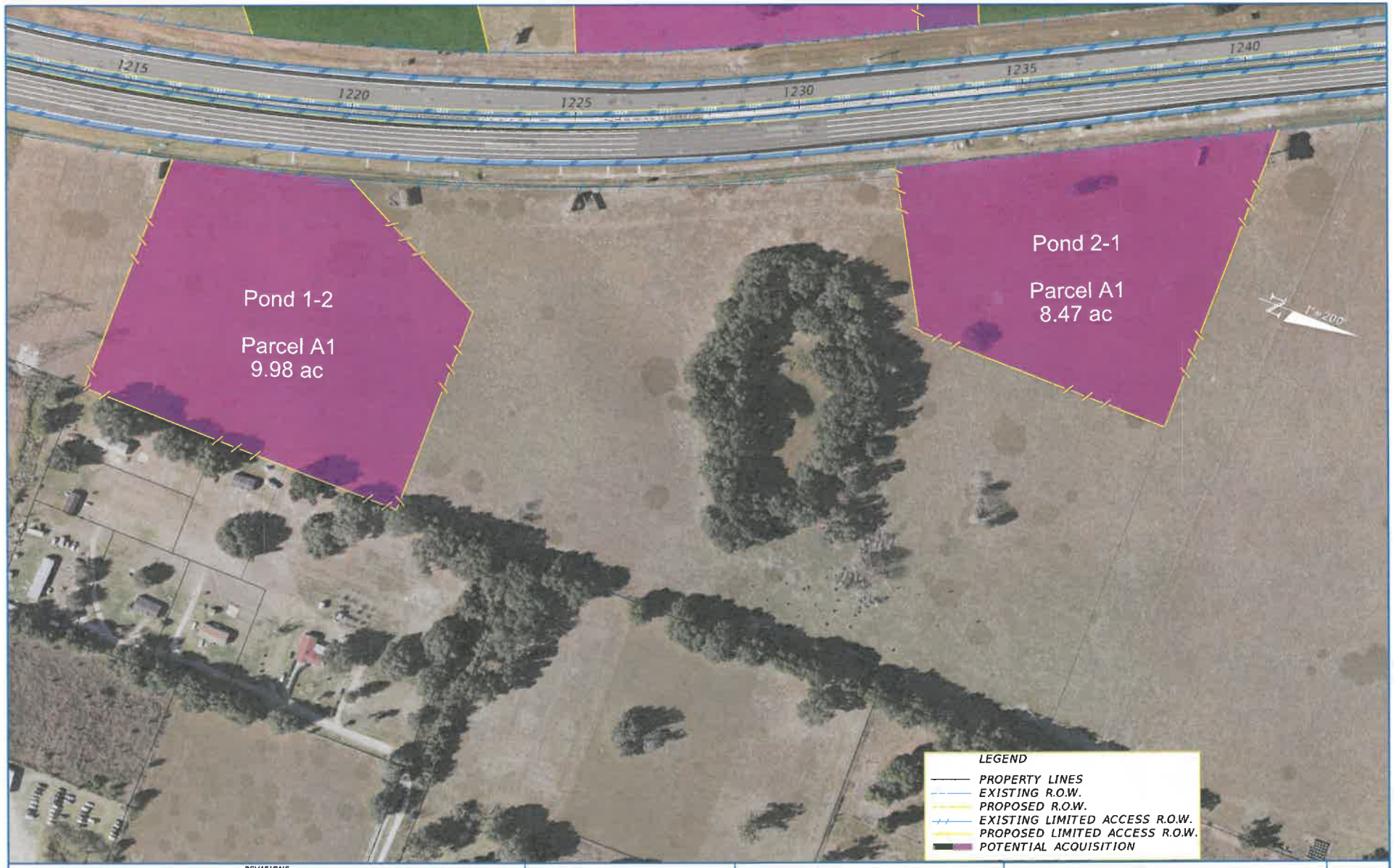

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	SUMTER	452074-2-32-01

I-75 Ponds Preliminary R/W

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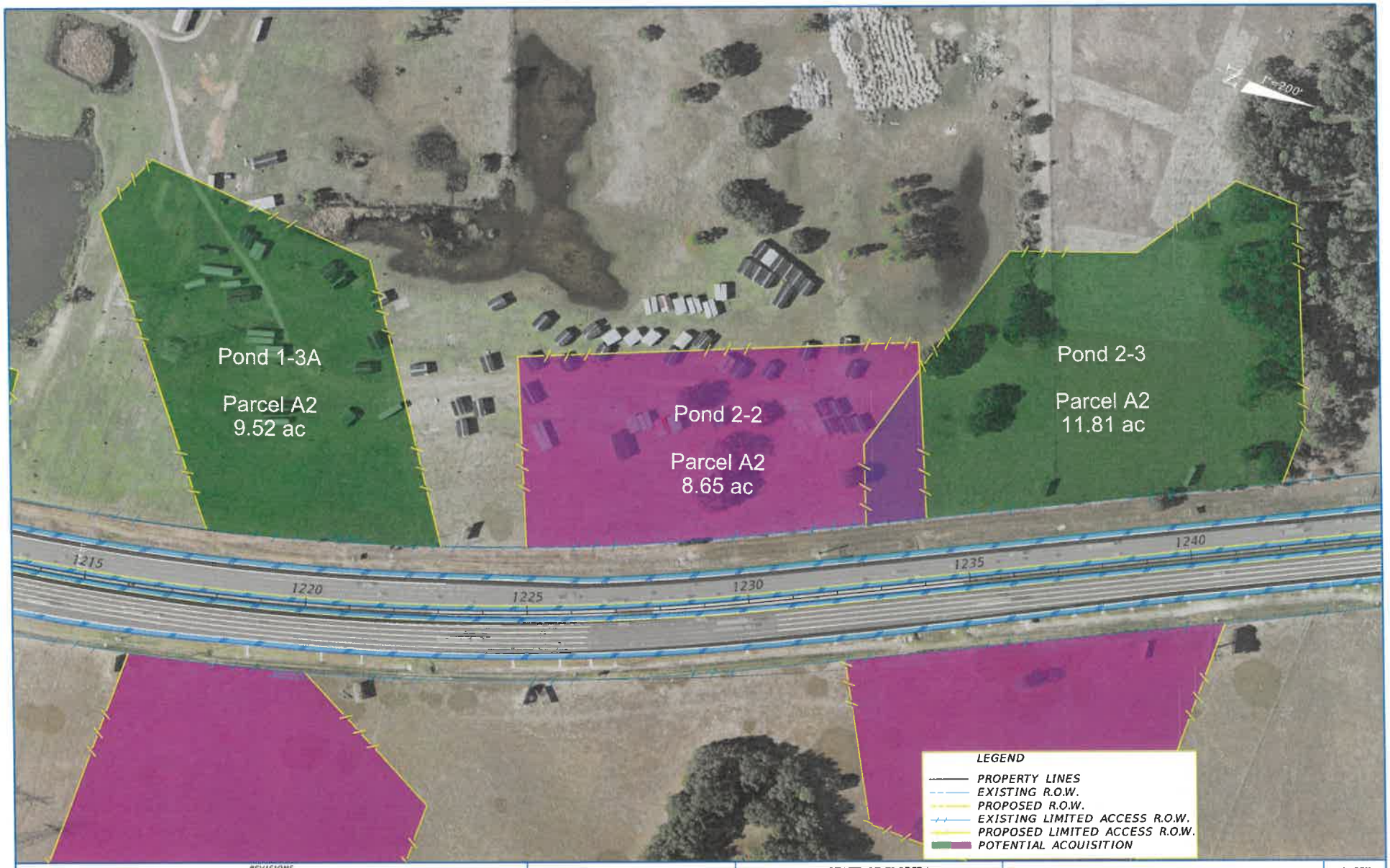

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	SUMTER	452074-2-32-01

I-75 Ponds Preliminary R/W

SHEET NO. 3

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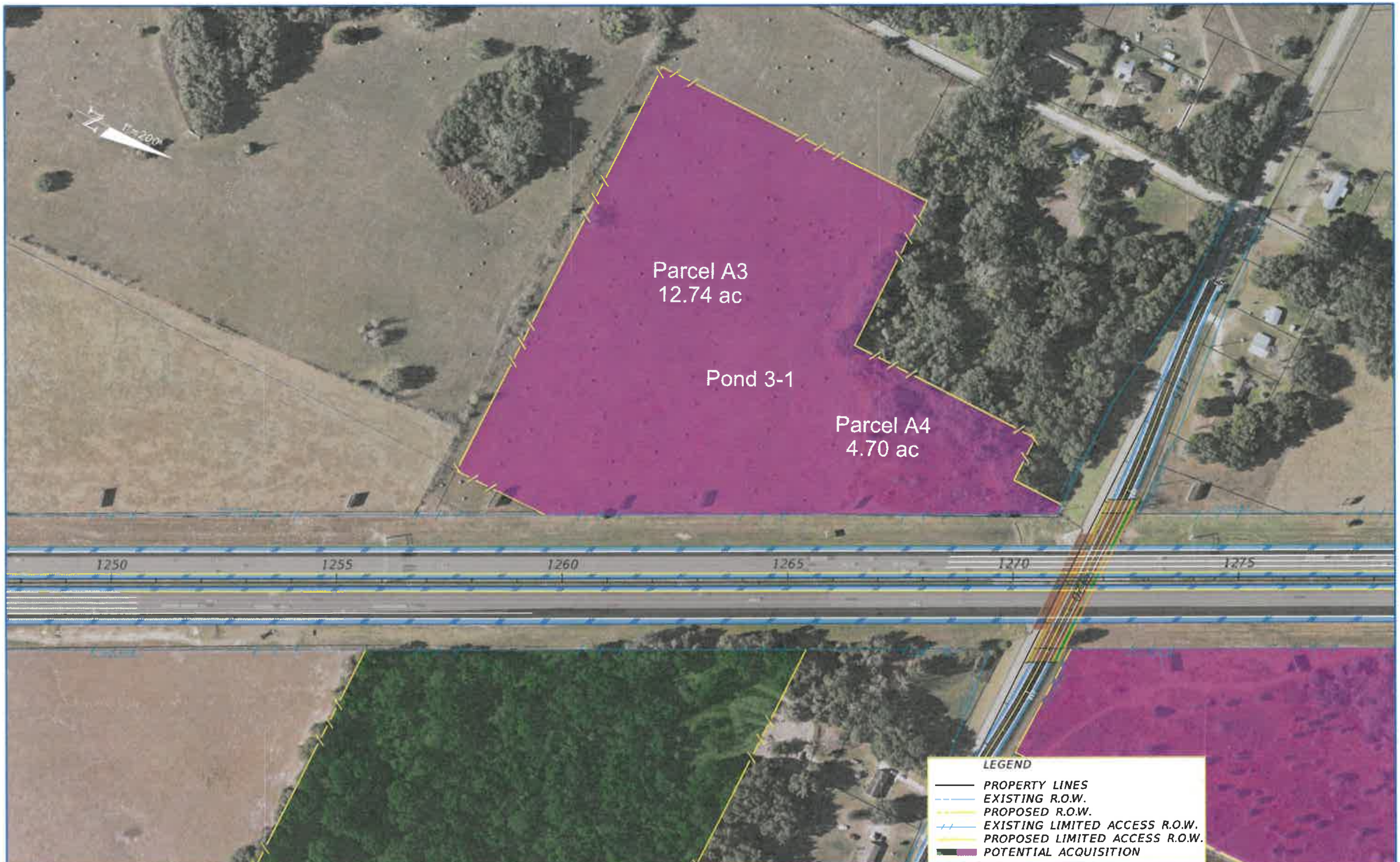

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	SUMTER	452074-2-32-01

I-75 Ponds Preliminary R/W

SHEET NO. 4

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	SUMTER	452074-2-32-01

I-75 Ponds Preliminary R/W

SHEET NO. 5

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	SUMTER	452074-2-32-01

I-75 Ponds Preliminary R/W

SHEET NO. 6

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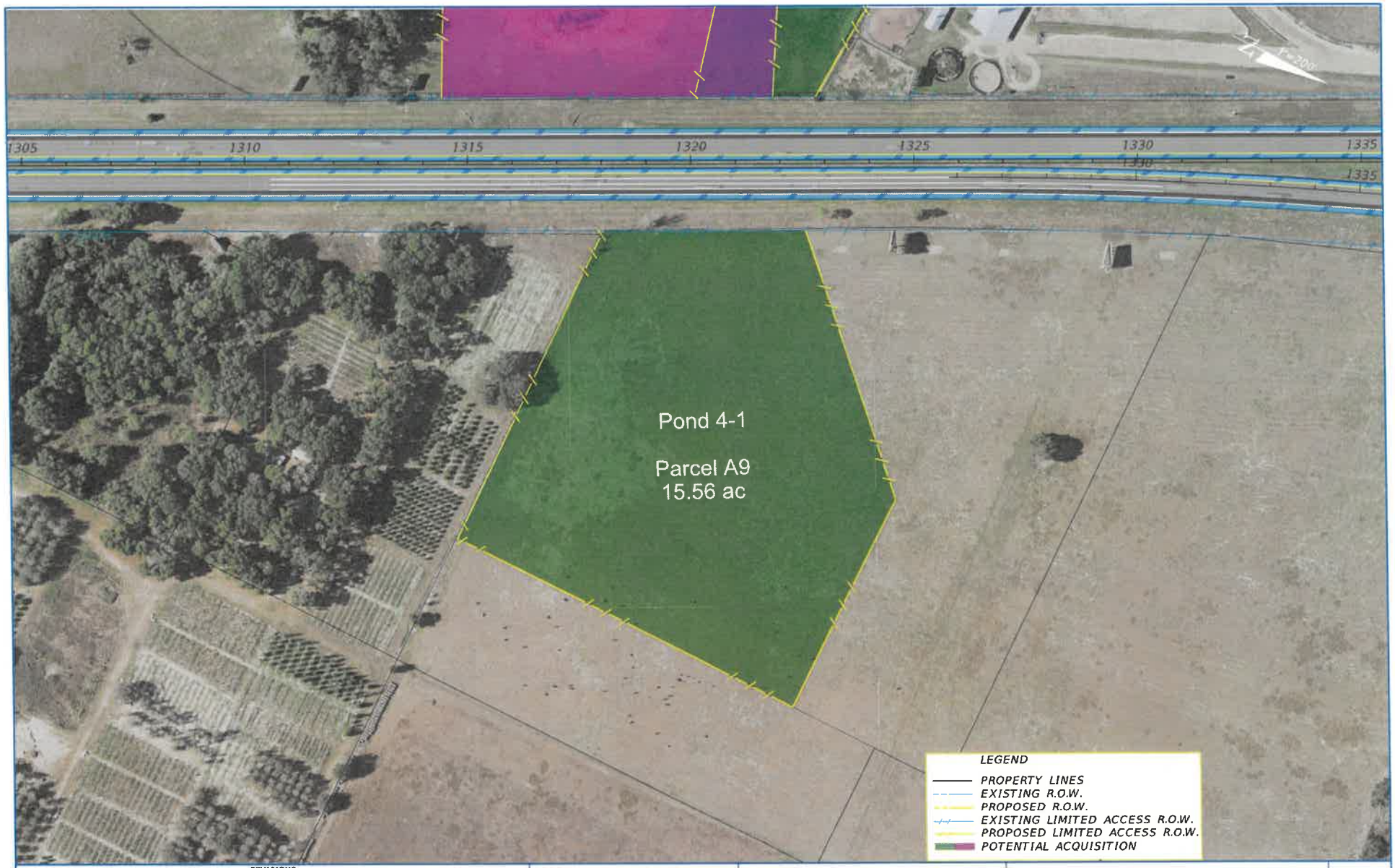

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	SUMTER	452074-2-32-01

I-75 Ponds Preliminary R/W

SHEET NO. 7

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	SUMTER	452074-2-32-01

I-75 Ponds Preliminary R/W

SHEET NO. 8

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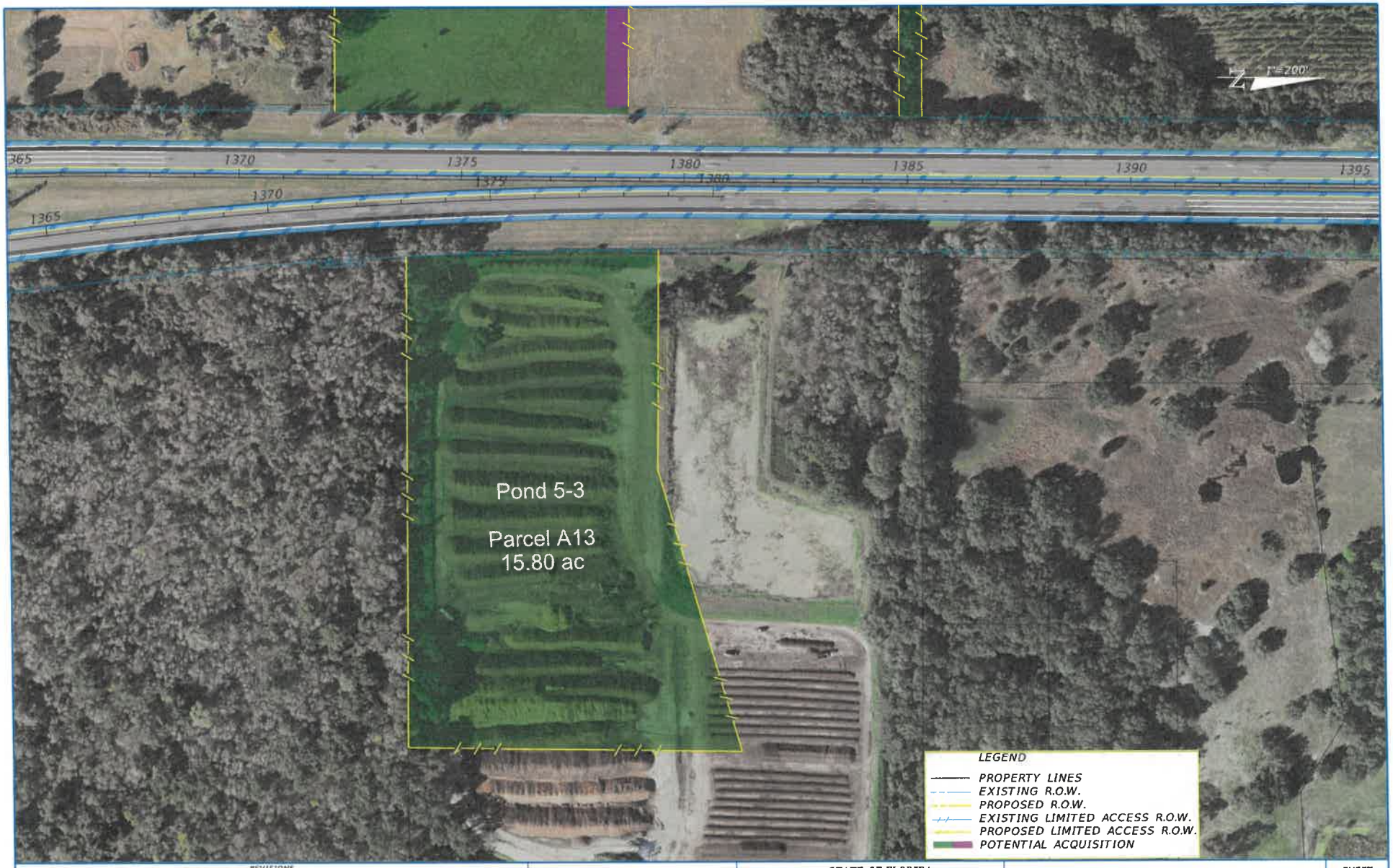

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	SUMTER	452074-2-32-01

I-75 Ponds Preliminary R/W

SHEET NO. 9

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	SUMTER	452074-2-32-01

I-75 Ponds Preliminary R/W

SHEET NO. 10

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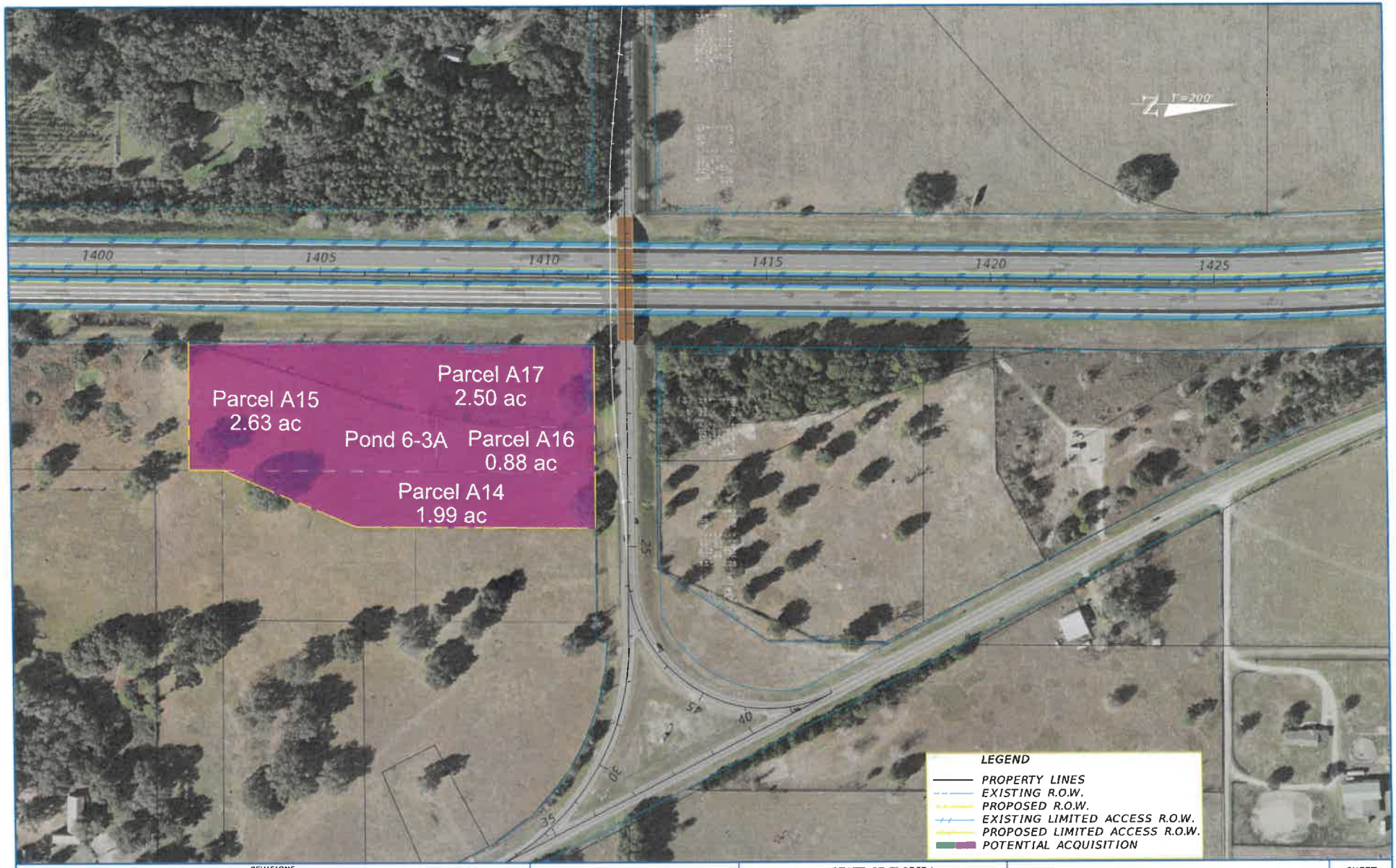

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	SUMTER	452074-2-32-01

I-75 Ponds
Preliminary R/W

SHEET NO. 11

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	SUMTER	452074-2-32-01

I-75 Ponds Preliminary R/W

SHEET NO. 12

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	SUMTER	452074-2-32-01

I-75 Ponds
Preliminary R/W

SHEET NO. 13

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	SUMTER	452074-2-32-01

I-75 Ponds Preliminary R/W

SHEET NO. 14

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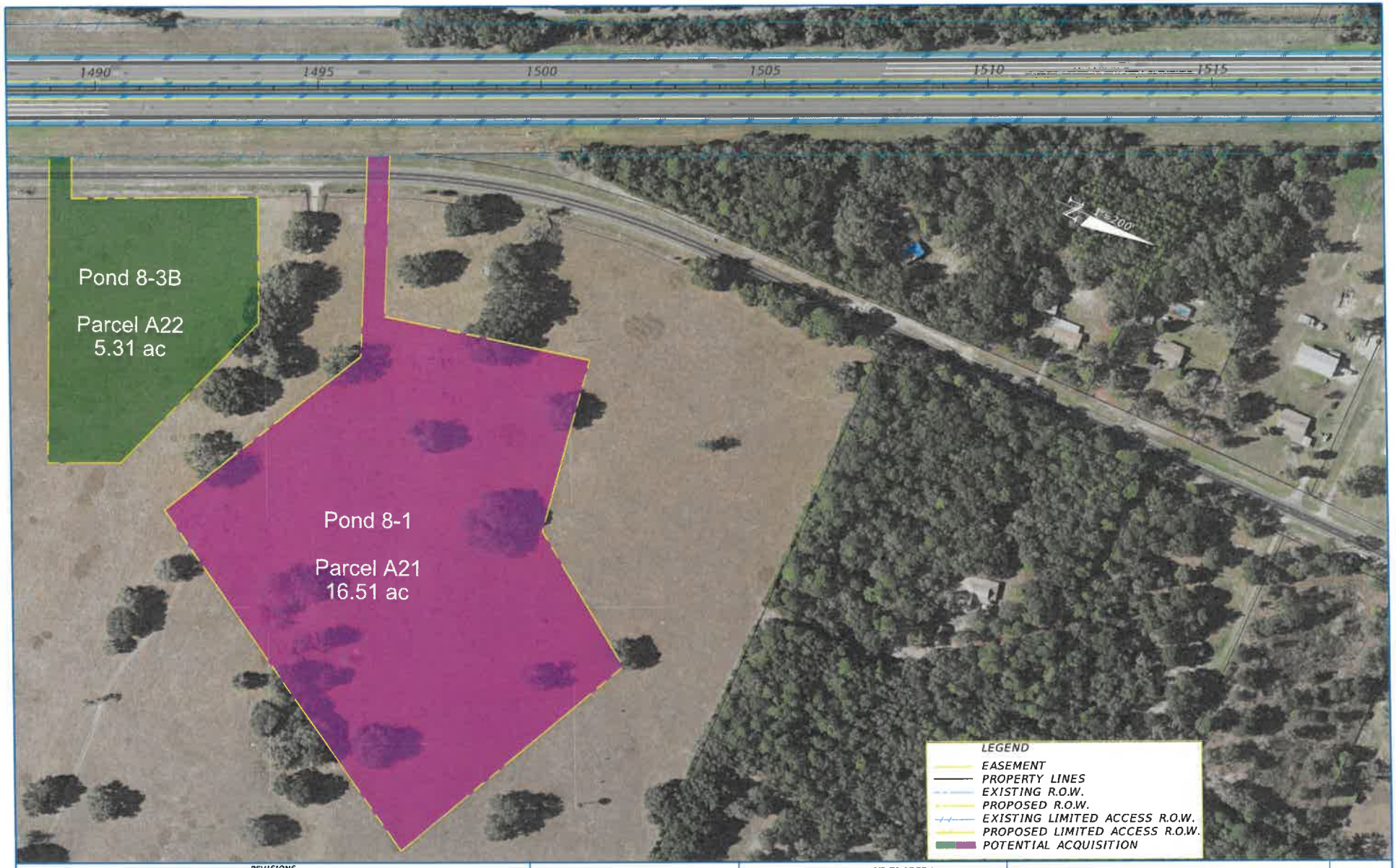

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	SUMTER	452074-2-32-01

I-75 Ponds Preliminary R/W

SHEET NO. 15

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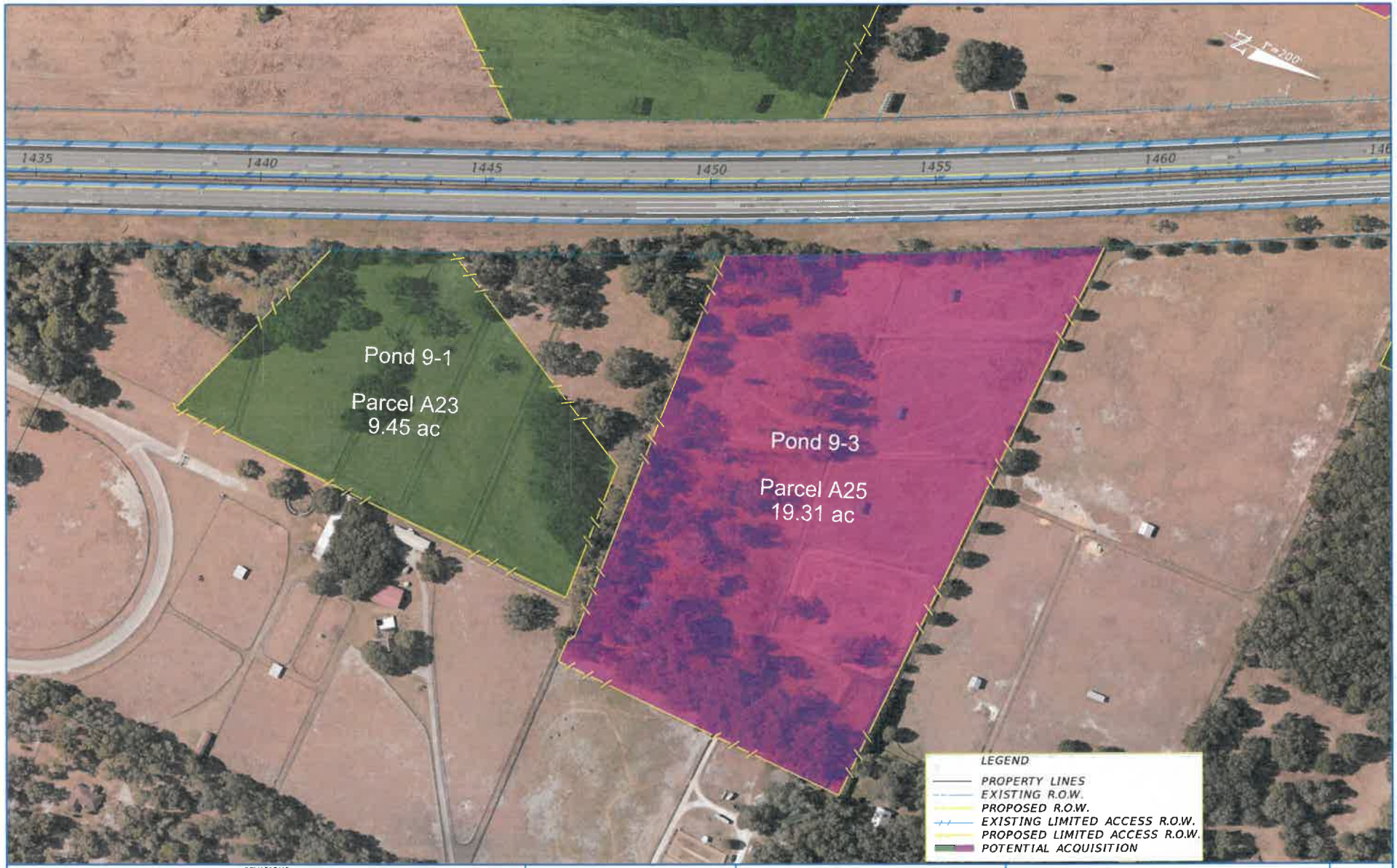

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	MARION	452074-2-32-01

I-75 Ponds Preliminary R/W

SHEET NO. 16

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	MARION	452074-2-32-01

I-75 Ponds
Preliminary R/W

SHEET NO. 17

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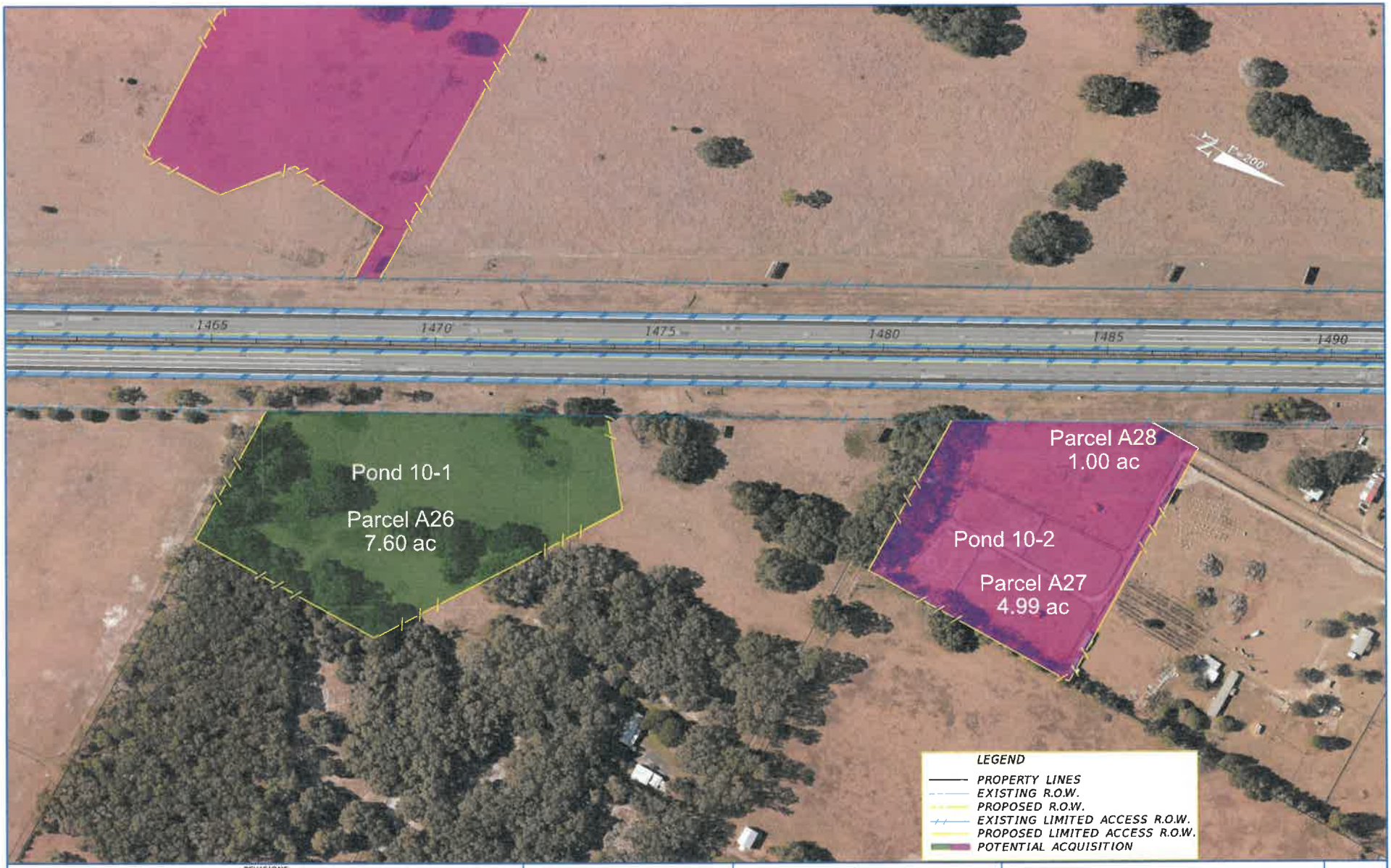

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	MARION	452074-2-32-01

I-75 Ponds Preliminary R/W

SHEET NO. 18

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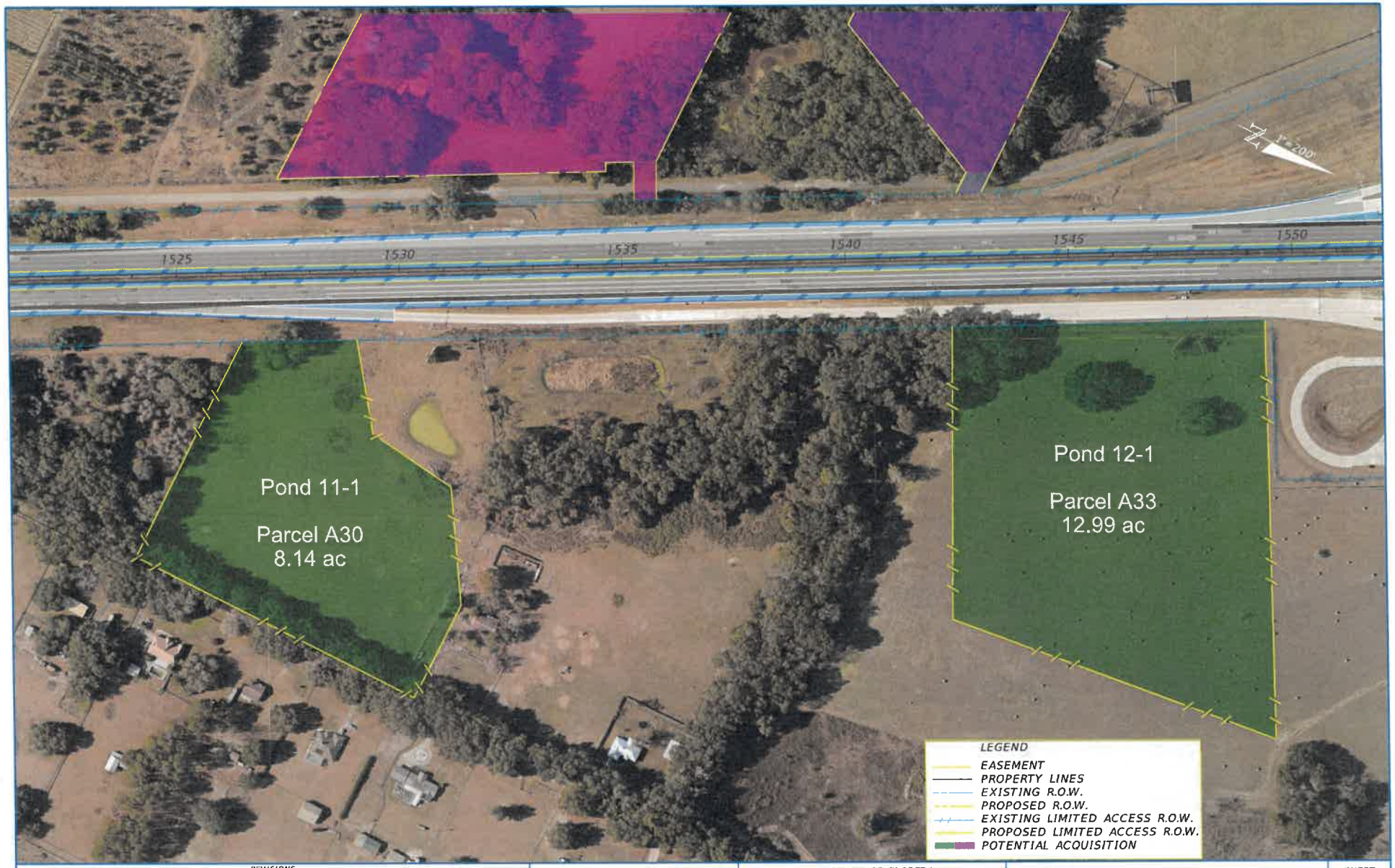

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	MARION	452074-2-32-01

I-75 Ponds
Preliminary R/W

SHEET NO. 19

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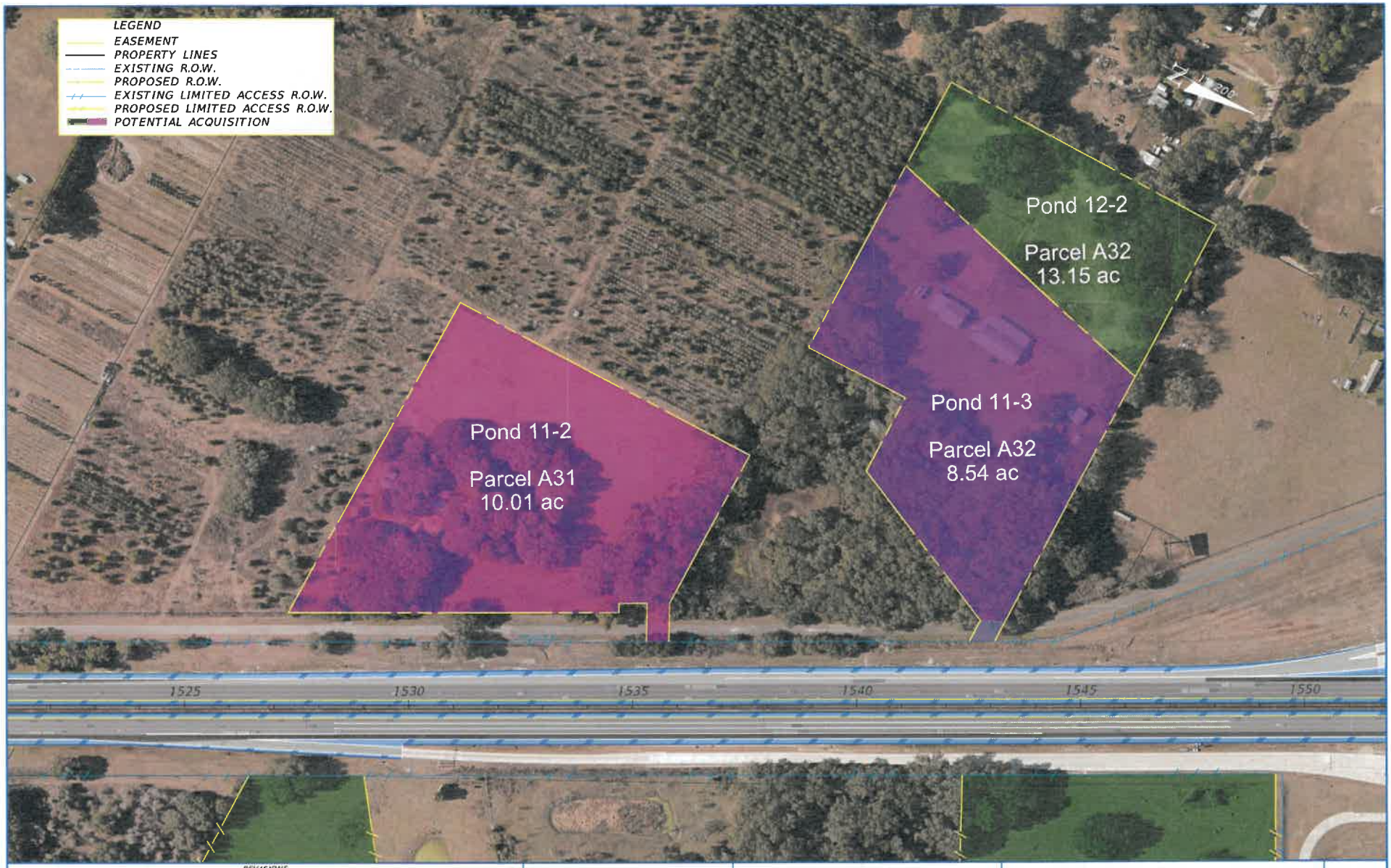

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	MARION	452074-2-32-01

I-75 Ponds Preliminary R/W

SHEET NO. 20

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	MARION	452074-2-32-01

I-75 Ponds Preliminary R/W

SHEET NO. 21

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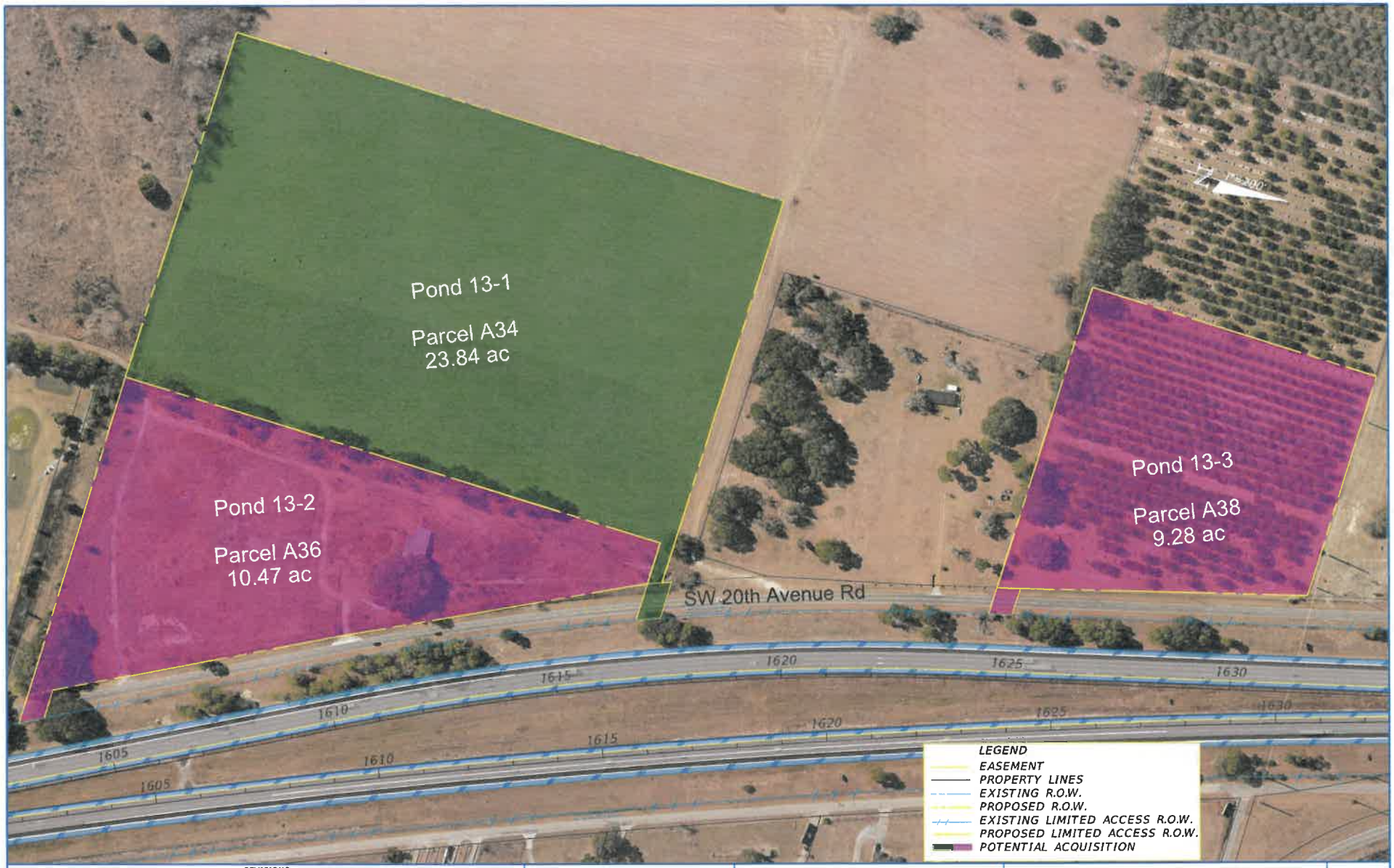

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	MARION	452074-2-32-01

I-75 Ponds Preliminary R/W

SHEET NO. 22

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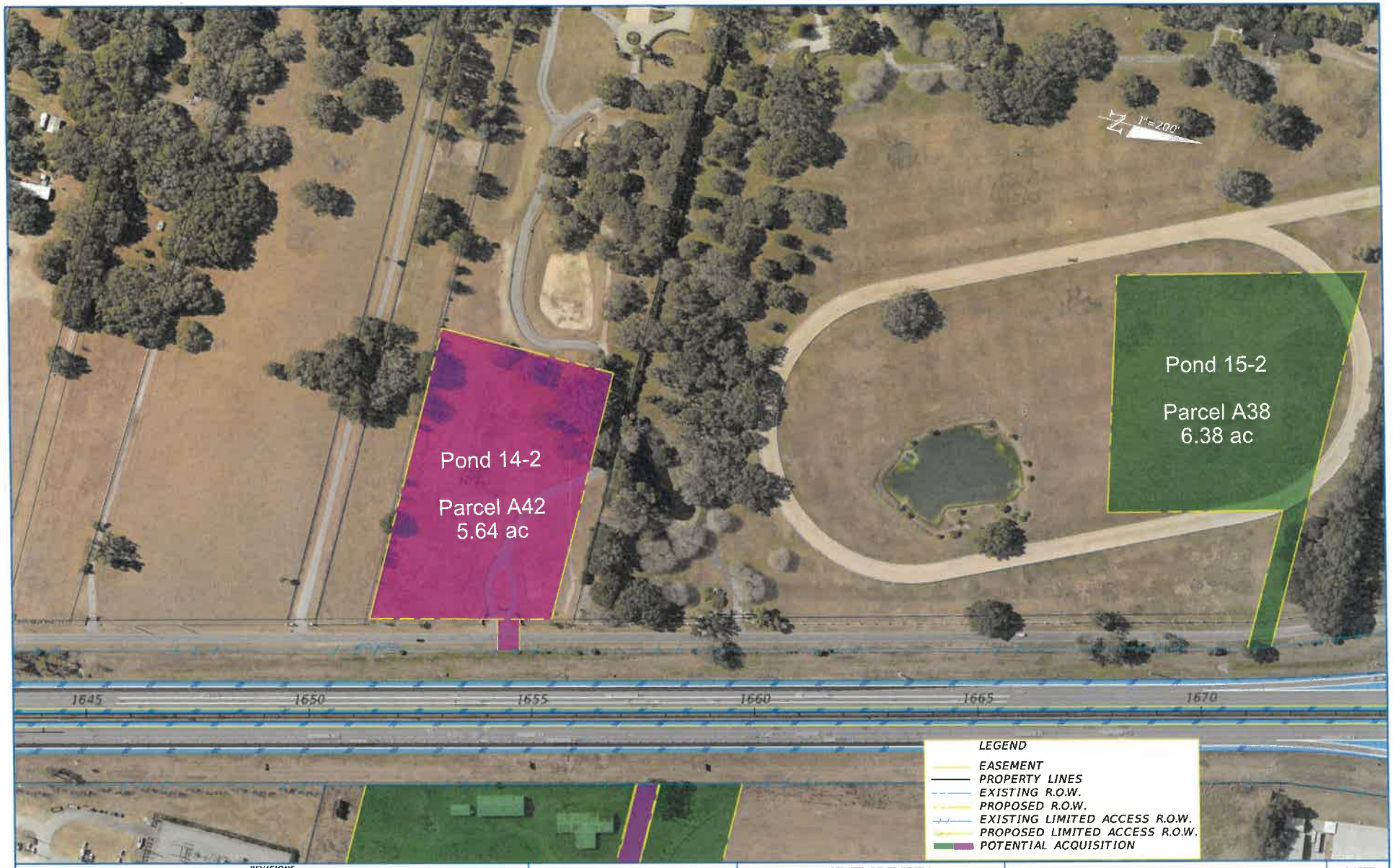

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	MARION	452074-2-32-01

I-75 Ponds
Preliminary R/W

SHEET NO. 23

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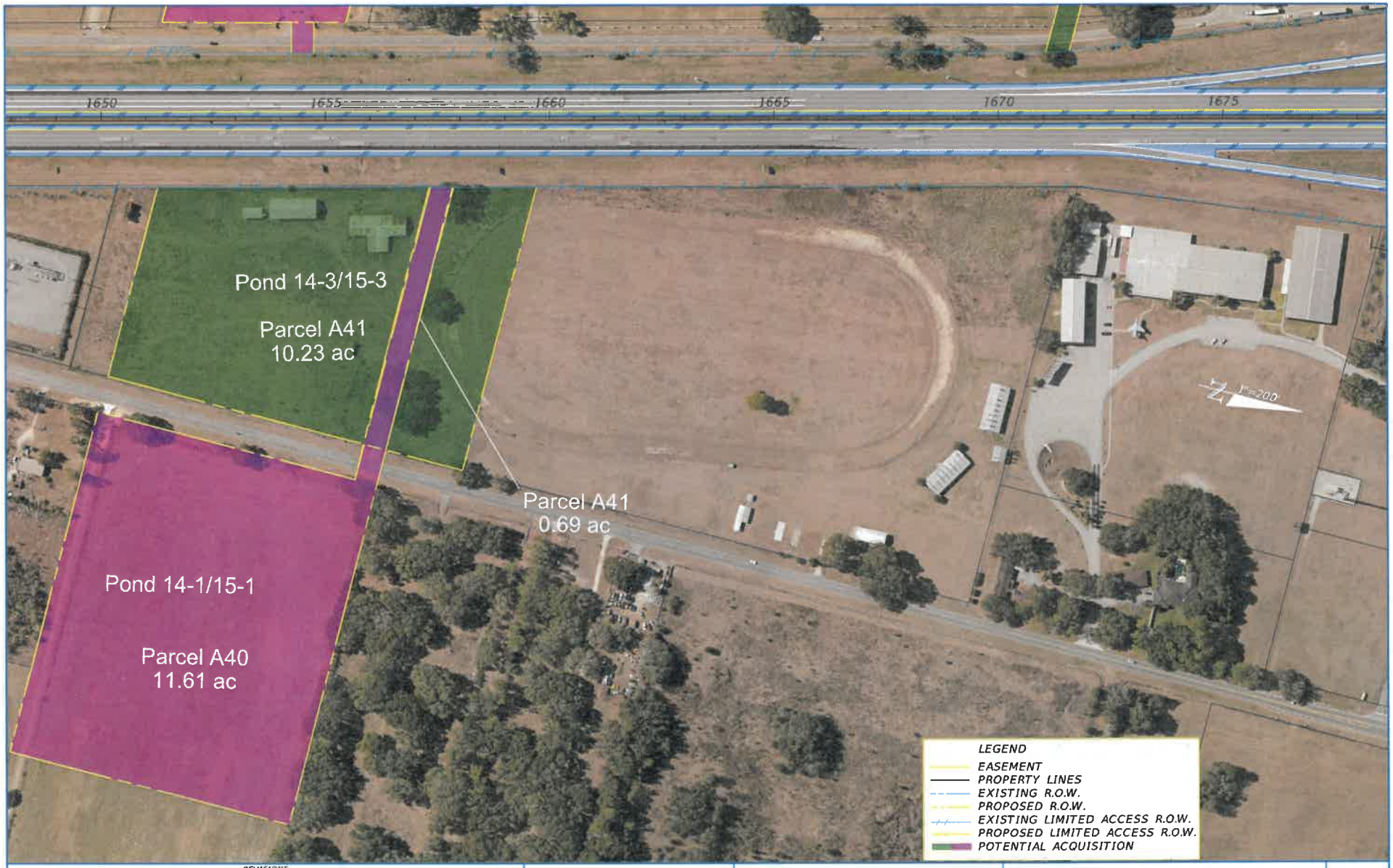

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	MARION	452074-2-32-01

I-75 Ponds Preliminary R/W

SHEET NO. 24

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	MARION	452074-2-32-01

I-75 Ponds Preliminary R/W

SHEET NO. 25

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	MARION	452074-2-32-01

I-75 Ponds Preliminary R/W

SHEET NO. 26

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	MARION	452074-2-32-01

I-75 Ponds Preliminary R/W

SHEET NO. 27

miranda.glass

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	MARION	452074-2-32-01

I-75 Ponds Preliminary R/W

SHEET NO. 28

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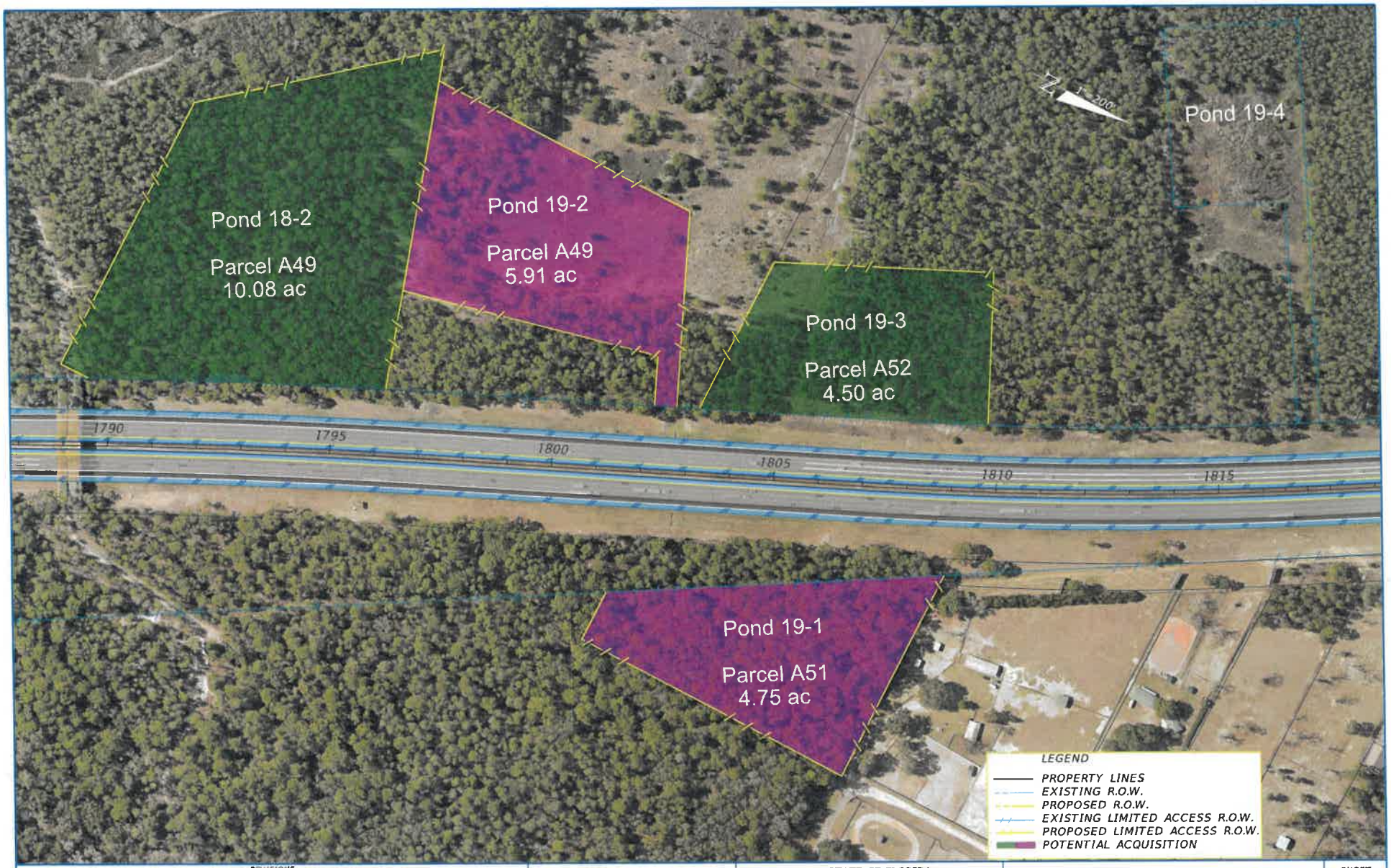

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	MARION	452074-2-32-01

I-75 Ponds Preliminary R/W

SHEET NO. 29

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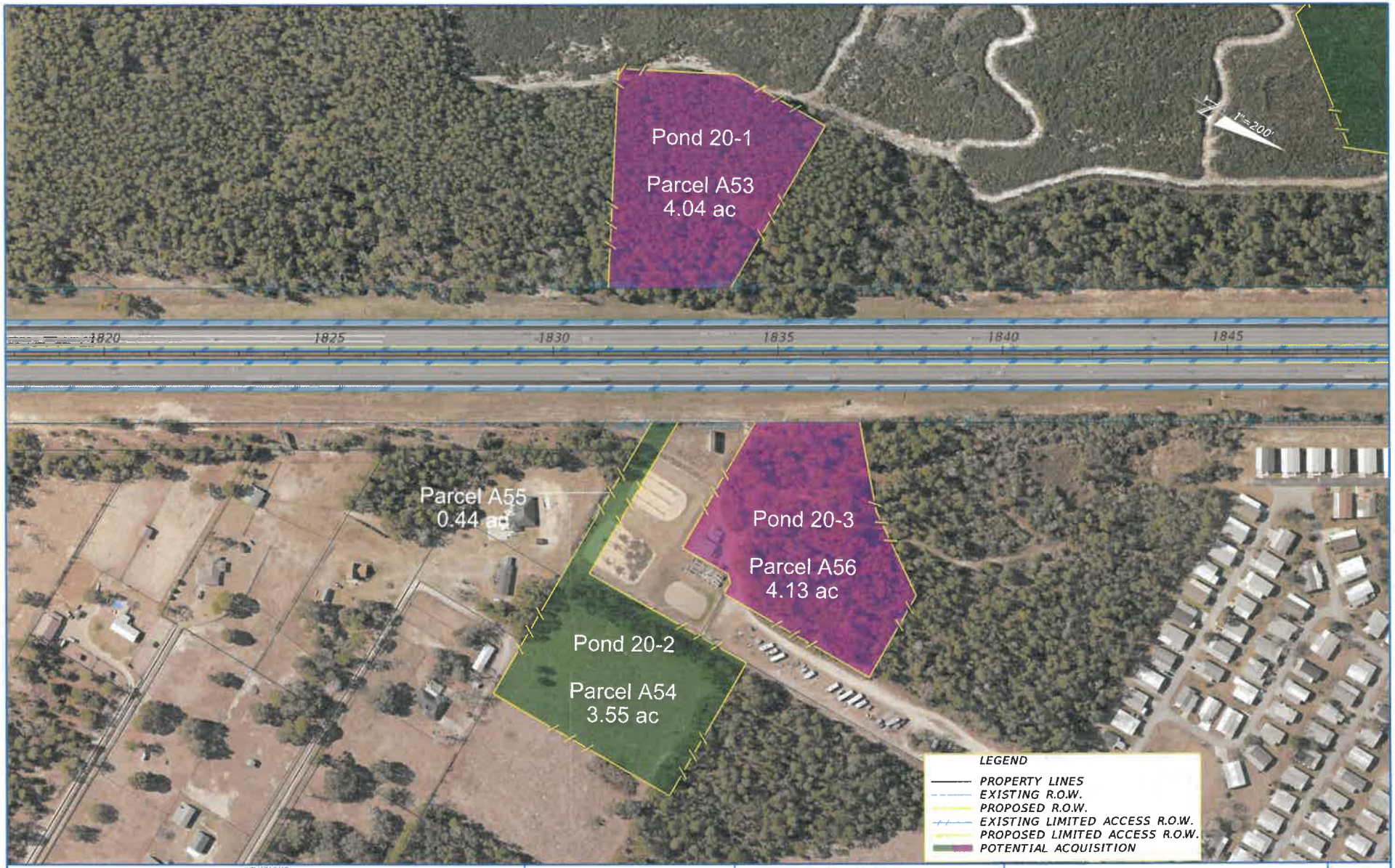

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	MARION	452074-2-32-01

I-75 Ponds
Preliminary R/W

SHEET NO. 30

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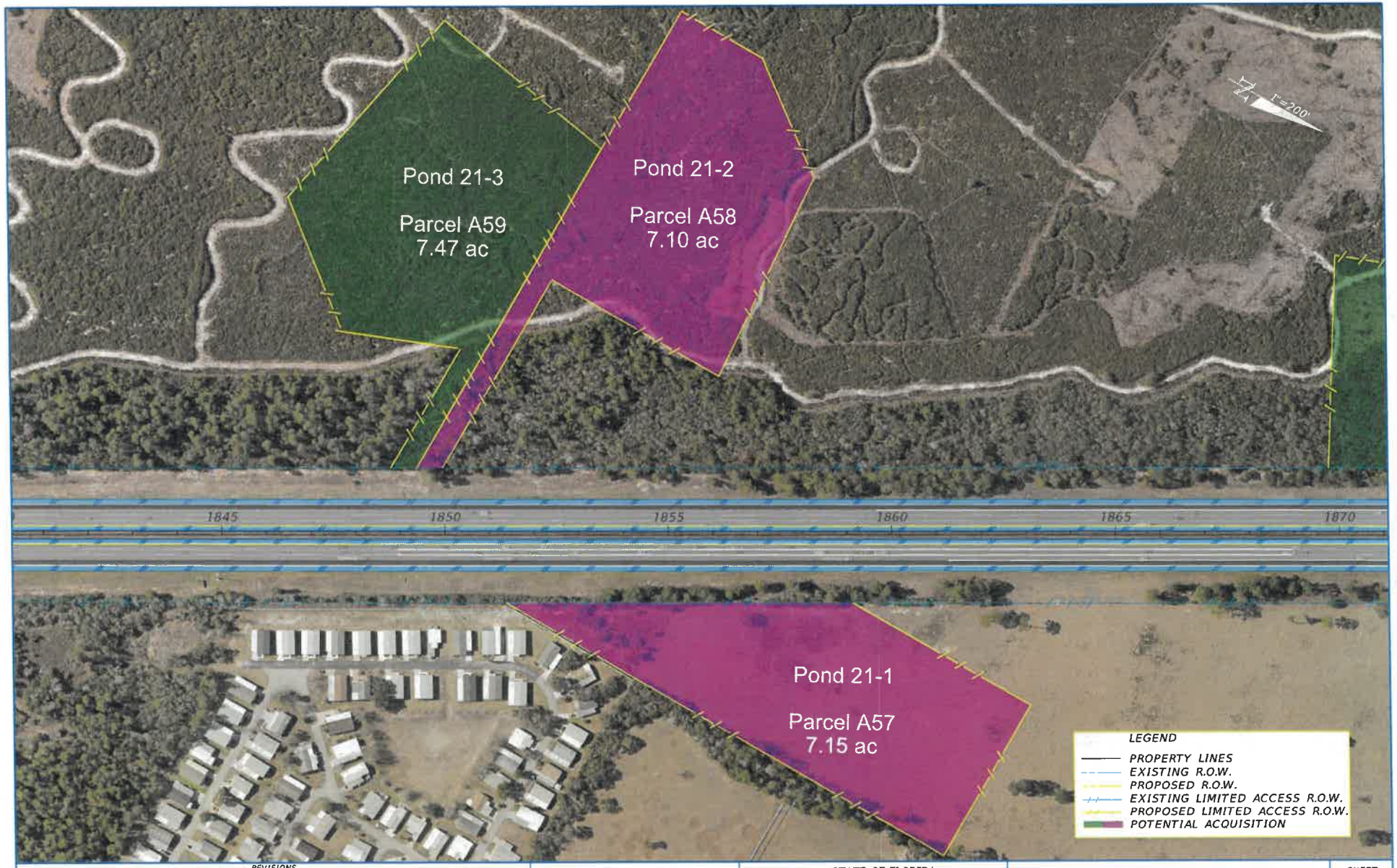

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	MARION	452074-2-32-01

I-75 Ponds
Preliminary R/W

SHEET NO. 31

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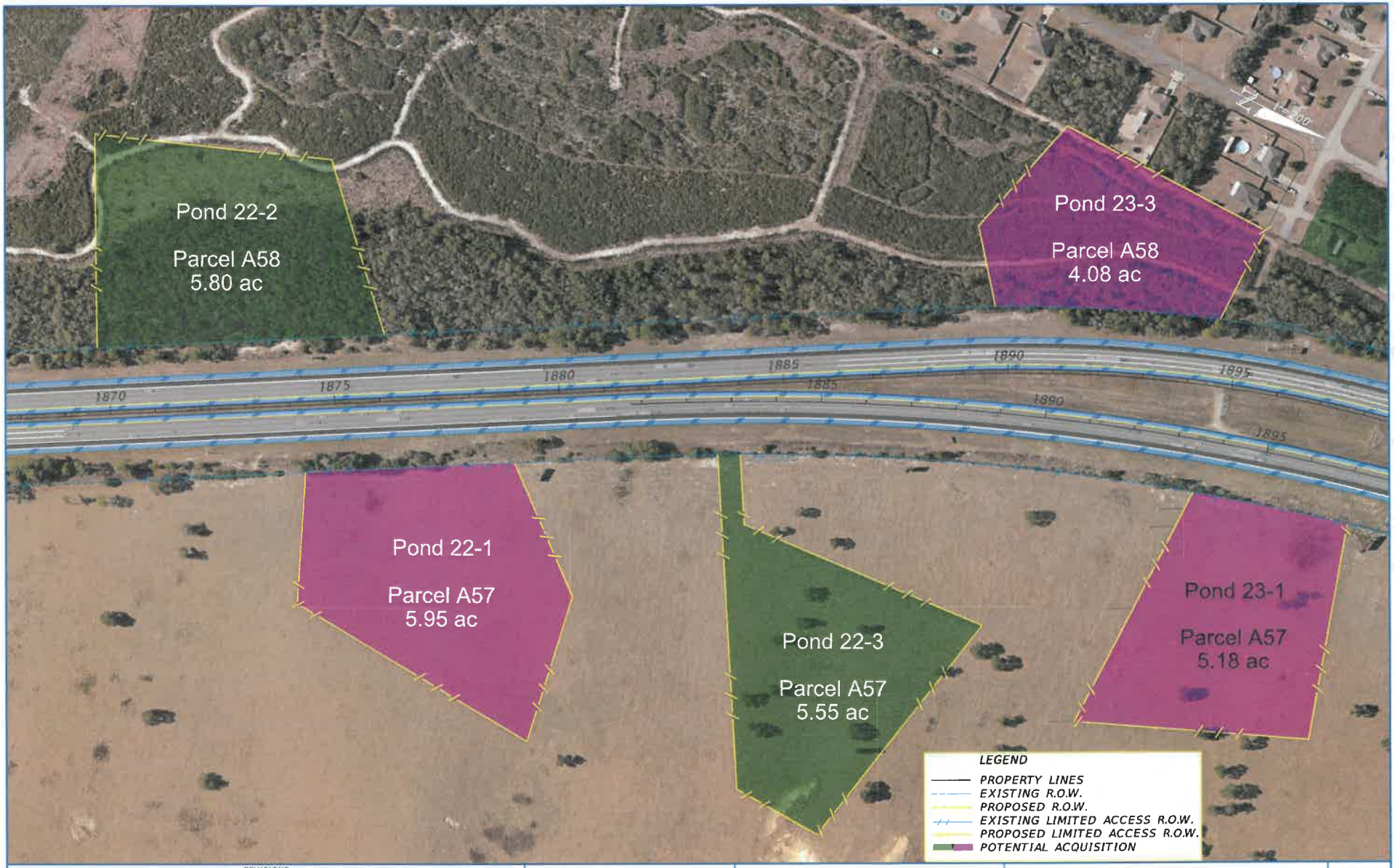

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	MARION	452074-2-32-01

I-75 Ponds Preliminary R/W

SHEET NO. 32

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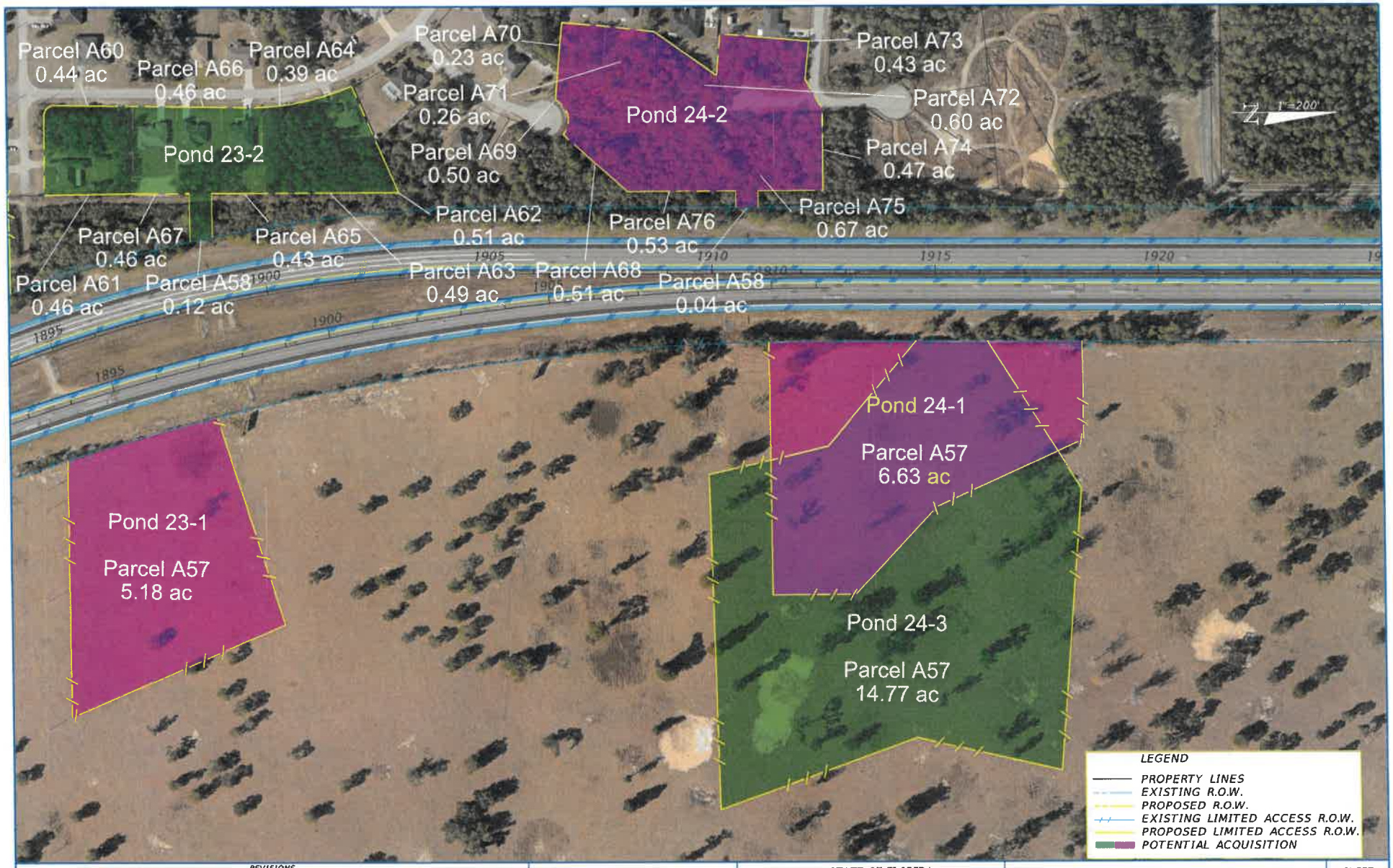

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	MARION	452074-2-32-01

I-75 Ponds Preliminary R/W

SHEET NO. 33

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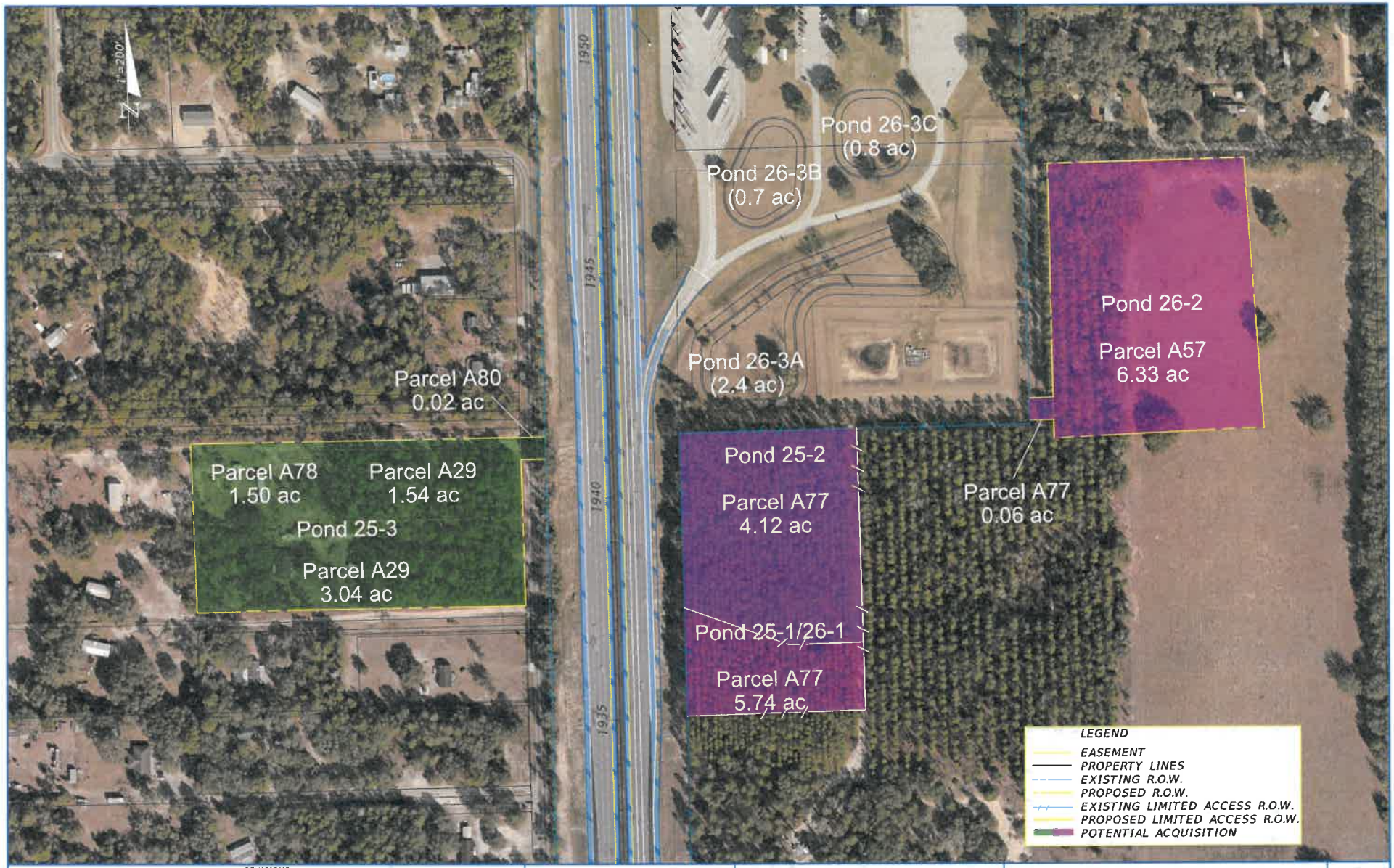

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	MARION	452074-2-32-01

I-75 Ponds
Preliminary R/W

SHEET NO. 34

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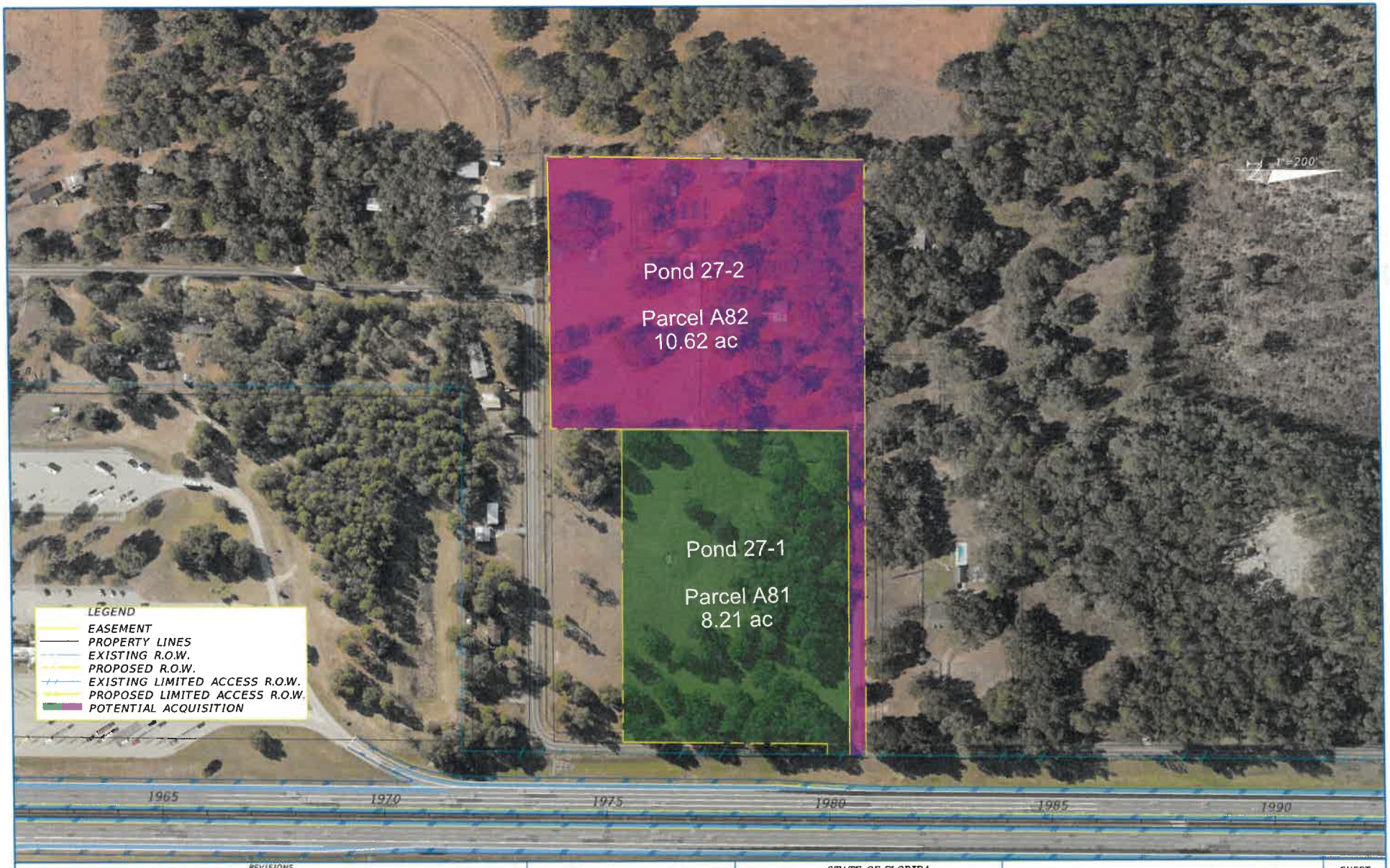

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	MARION	452074-2-32-01

I-75 Ponds
Preliminary R/W

SHEET NO. 35

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	MARION	452074-2-32-01

I-75 Ponds Preliminary R/W

SHEET NO. 36

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	MARION	452074-2-32-01

I-75 Ponds Preliminary R/W

SHEET NO. 37

miranda.glass 2/8/2024 7:14:07 PM Default

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	MARION	452074-2-32-01

I-75 Ponds Preliminary R/W

SHEET NO. 38

miranda.glass

2/8/2024 7:08:39 PM default

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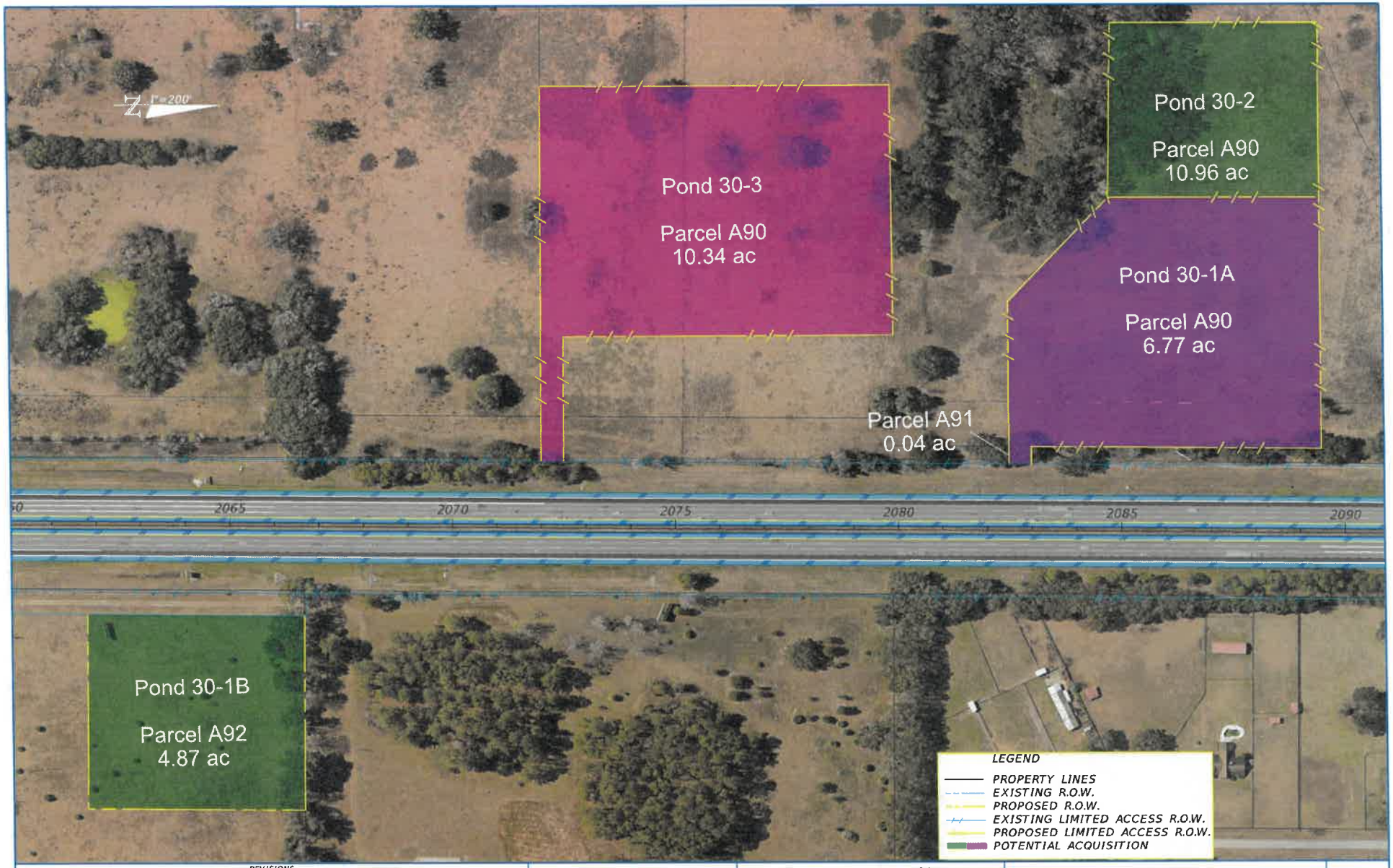

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	MARION	452074-2-32-01

I-75 Ponds Preliminary R/W

SHEET NO. 39

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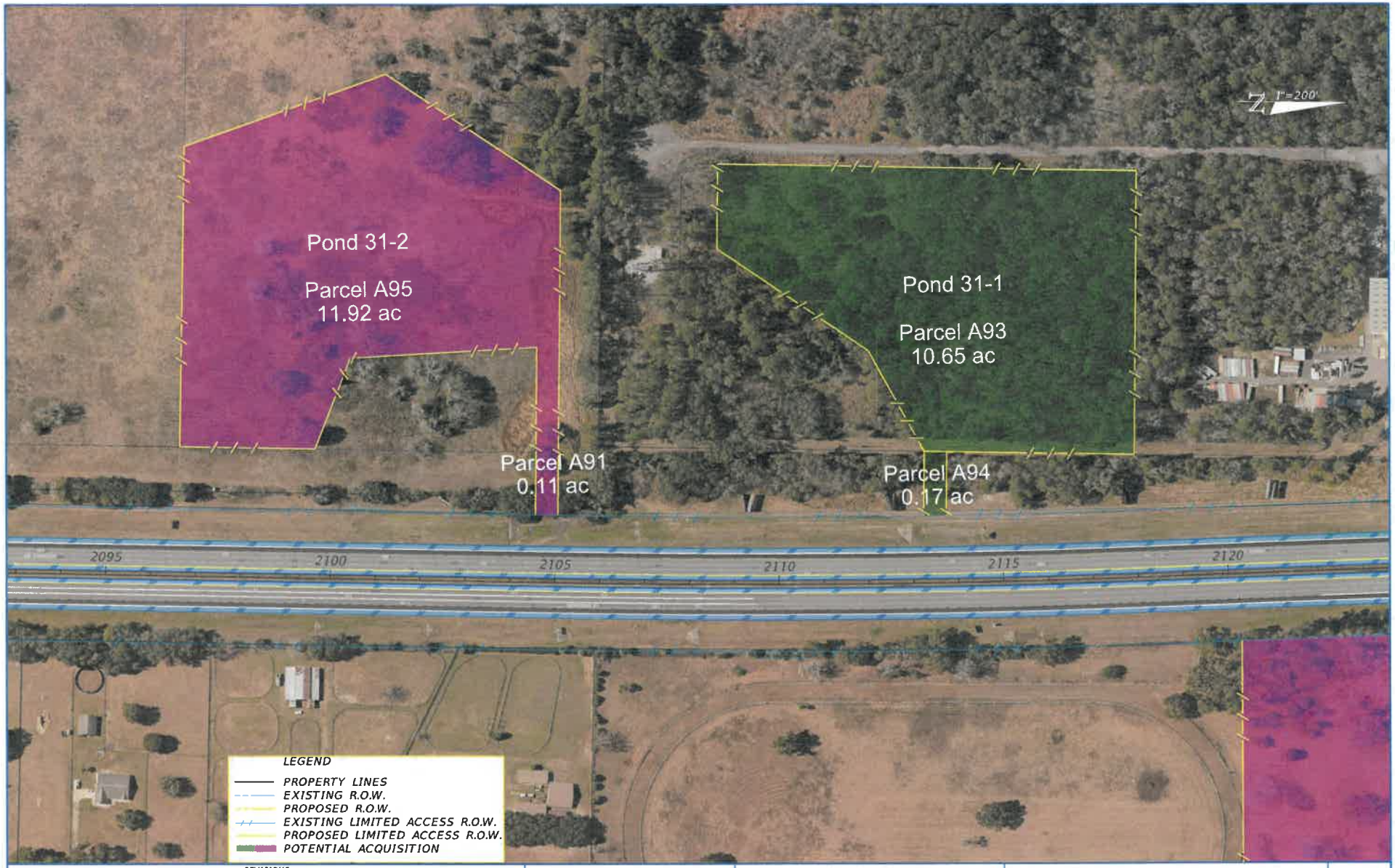

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	MARION	452074-2-32-01

I-75 Ponds Preliminary R/W

SHEET NO. 40

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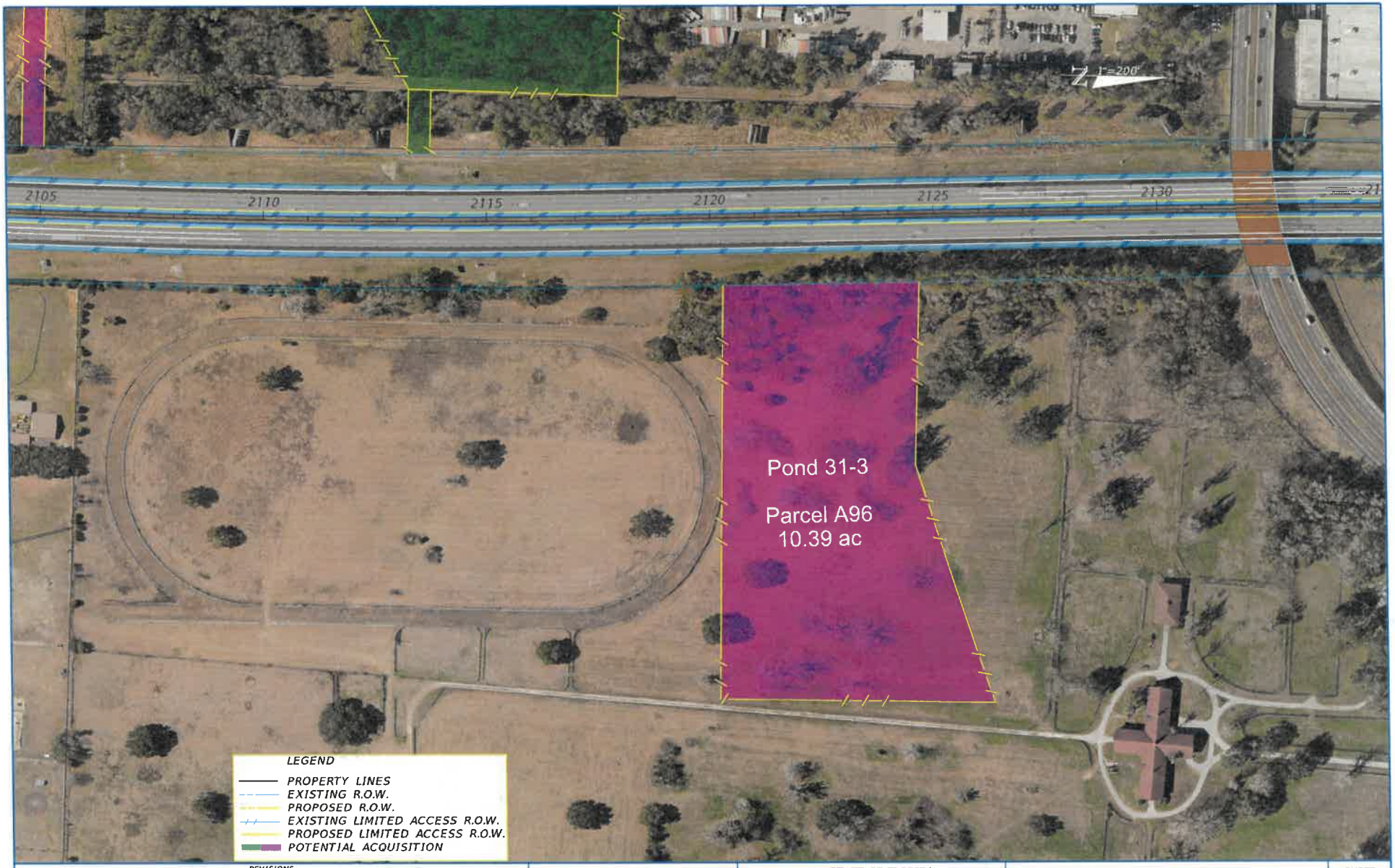

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	MARION	452074-2-32-01

I-75 Ponds
Preliminary R/W

SHEET NO. 41

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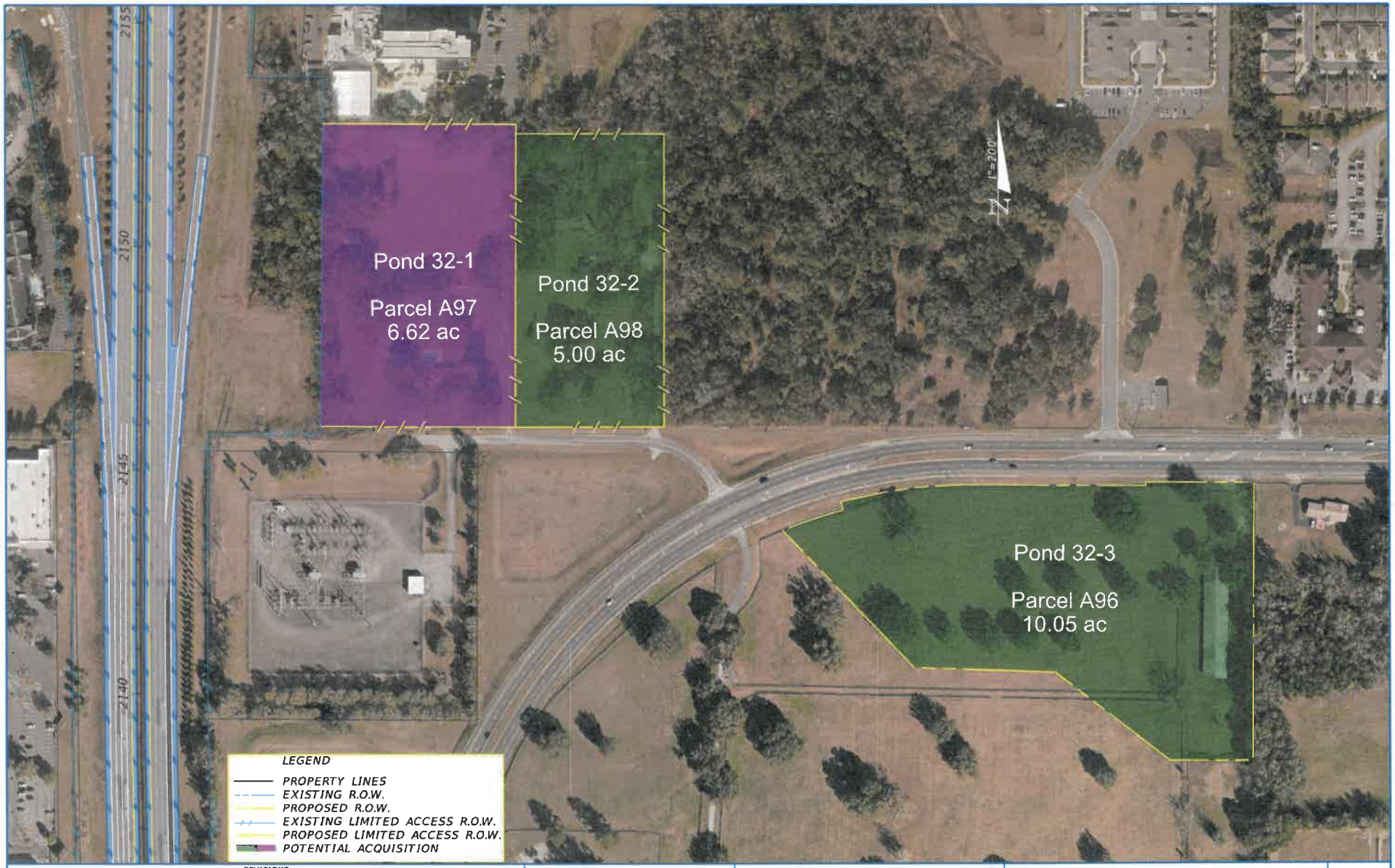

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
I-75	MARION	452074-2-32-01

I-75 Ponds Preliminary R/W

SHEET NO. 42

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APPENDIX B
Pond Sizing Worksheets

BURGESS & NIPLE
Engineers ■ Planners

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 9-1 | Full | **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	38.22	ac
Pond Parcel Area	8.50	ac
Total Area	46.72	ac

Basin Limits

1409+00 to 1464+00

There is a Station Equation at the Sumter/Marion County Lines that alters the I-75 Stationing as follows: STA 1525+64.00 (AH)/1422+88.98(BK)

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impvervious	11.11	98							1088.89	11.11
Grass	27.11	39							1057.25	27.11
Pond Site Pre Condition	8.50	39							331.50	8.50
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	46.72		0		0		0		2477.64	46.72
								WEIGHTED CN		53

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 9.5 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 8.9
$S = (1000/CN) - 10$

Estimated Runoff Volume = 37.15 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	38.22	ac
Pond Parcel Area	8.50	ac
Total Area	46.72	ac

Basin Limits

1409+00 to 1464+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	34.09	98							3340.91	34.09
Grass	4.13	39							161.03	4.13
Pond Site (Pervious)	3.50	39							136.50	3.50
Pond Site (Impervious)	5.00	100							500.00	5.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	46.72		0		0		0		4138.44	46.72
								WEIGHTED CN		89

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 15.4 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 1.3
$S = (1000/CN) - 10$

Estimated Runoff Volume = 60.13 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 9-1

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		38.22	ac
Weighted C		0.87	
Total Impervious	0.95	34.09	ac
Total Pervious	0.20	4.13	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		2.77	ac-ft
Required Treatment (1/2" over Area)		1.59	ac-ft
		2.77	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	37.15	ac-ft
Proposed Runoff Volume	60.13	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**22.98**	**ac-ft**
Floodplain Compensation	**0.00**	**ac-ft**
TOTAL STORAGE	**22.98**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	6.0 ft	Assumed Control EL	54.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	621 ft
WTOP OF SLOPE	311 ft
Area	4.43 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	794 ft
WSITE	421 ft
Area	7.67 ac

Pond 9-1

	Contour	Area	Storage	Cumulative	Notes
GIS	54	164786	0.0	0.0	
GIS	60	225022	1169424.0	1169424.0	

Cumulative Ret (ac-ft) Below Freeboard
26.85

Pond Area
5.2

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 9-2 | Full **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	38.22	ac
Pond Parcel Area	19.00	ac
Total Area	57.22	ac

Basin Limits

1409+00 to 1464+00

There is a Station Equation at the Sumter/Marion County Lines that alters the I-75 Stationing as follows: STA 1525+64.00 (AH)/1422+88.98(BK)

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	11.11	98							1088.89	11.11
Grass	27.11	39							1057.25	27.11
Pond Site Pre Condition	19.00	39							741.00	19.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	57.22		0		0		0		2887.14	57.22
								WEIGHTED CN		50

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 9.8
$S = (1000/CN) - 10$

Runoff Depth (Q) = 9.0 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 42.97 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	38.22	ac
Pond Parcel Area	19.00	ac
Total Area	57.22	ac

Basin Limits

1409+00 to 1464+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	34.09	98							3340.91	34.09
Grass	4.13	39							161.03	4.13
Pond Site (Pervious)	7.50	39							292.50	7.50
Pond Site (Impervious)	11.50	100							1150.00	11.50
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	57.22		0		0		0		4944.44	57.22
								WEIGHTED CN		86

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 1.6
$S = (1000/CN) - 10$

Runoff Depth (Q) = 15.1 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 72.24 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 9-2

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		38.22	ac
Weighted C		0.87	
Total Impervious	0.95	34.09	ac
Total Pervious	0.20	4.13	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		2.77	ac-ft
Required Treatment (1/2" over Area)		1.59	ac-ft
		2.77	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	42.97	ac-ft
Proposed Runoff Volume	72.24	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**29.26**	**ac-ft**
Floodplain Compensation	**0.00**	**ac-ft**
TOTAL STORAGE	**29.26**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	3.0 ft	Assumed Control EL	57.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	961 ft
WTOP OF SLOPE	480 ft
Area	10.59 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	1201 ft
WSITE	624 ft
Area	17.21 ac

Pond 9-2

	Contour	Area	Storage	Cumulative	Notes
GIS	57	452297	0.0	0.0	
GIS	60	486132	1407643.5	1407643.5	

Cumulative Ret (ac-ft) Below Freeboard
32.32

Pond Area
11.2

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 9-3 | Full | **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	38.22	ac
Pond Parcel Area	19.00	ac
Total Area	57.22	ac

Basin Limits

1409+00 to 1464+00

There is a Station Equation at the Sumter/Marion County Lines that alters the I-75 Stationing as follows: STA 1525+64.00 (AH)/1422+88.98(BK)

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	11.11	98							1088.89	11.11
Grass	27.11	39							1057.25	27.11
Pond Site Pre Condition	19.00	39							741.00	19.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	57.22		0		0		0		2887.14	57.22
								WEIGHTED CN		50

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 9.0 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 9.8
$S = (1000/CN) - 10$

Estimated Runoff Volume = 42.97 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	38.22	ac
Pond Parcel Area	19.00	ac
Total Area	57.22	ac

Basin Limits

1409+00 to 1464+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	34.09	98							3340.91	34.09
Grass	4.13	39							161.03	4.13
Pond Site (Pervious)	7.50	39							292.50	7.50
Pond Site (Impervious)	11.50	100							1150.00	11.50
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	57.22		0		0		0		4944.44	57.22
								WEIGHTED CN		86

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 15.1 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 1.6
$S = (1000/CN) - 10$

Estimated Runoff Volume = 72.24 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 9-3

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		38.22	ac
Weighted C		0.87	
Total Impervious	0.95	34.09	ac
Total Pervious	0.20	4.13	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		2.77	ac-ft
Required Treatment (1/2" over Area)		1.59	ac-ft
		2.77	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	42.97	ac-ft
Proposed Runoff Volume	72.24	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**29.26**	**ac-ft**
Floodplain Compensation	**0.00**	**ac-ft**
TOTAL STORAGE	**29.26**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0	ft	Freeboard	1.0	ft
L/W Ratio	2.0		Side Slopes (1:H)	4.0	
Maximum Treatment Volume Depth	1.5	ft	Wet/Dry	Dry	
Maximum Pond Depth Below Freeboard	3.0	ft	Assumed Control EL	57.00	ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	961	ft
WTOP OF SLOPE	480	ft
Area	10.59	ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	1201	ft
WSITE	624	ft
Area	17.21	ac

Pond 9-3

	Contour	Area	Storage	Cumulative	Notes
GIS	57	476017	0.0	0.0	
GIS	60	515131	1486722.0	1486722.0	

Cumulative Ret (ac-ft) Below Freeboard
34.13

Pond Area
11.8

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 10-1 | Full | **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	28.66	ac
Pond Parcel Area	6.00	ac
Total Area	34.66	ac

Basin Limits

1464+00 to 1505+50

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN		
Impvervious	8.38	98							821.62	8.38
Grass	20.28	39							790.77	20.28
Pond Site Pre Condition	6.00	39							234.00	6.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	34.66		0		0		0		1846.39	34.66
								WEIGHTED CN		53

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 9.6 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 8.8
$S = (1000/CN) - 10$

Estimated Runoff Volume = 27.70 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	28.66	ft²
Pond Parcel Area	6.00	ft²
Total Area	34.66	ft²

Basin Limits

640+50 to 682+10

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN		
Impervious	25.79	98							2526.94	25.79
Grass	2.87	39							112.12	2.87
Pond Site (Pervious)	2.50	39							97.50	2.50
Pond Site (Impervious)	3.50	100							350.00	3.50
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	34.66		0		0		0		3086.56	34.66
								WEIGHTED CN		89

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 15.5 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 1.2
$S = (1000/CN) - 10$

Estimated Runoff Volume = 44.80 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 10-1

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		28.66	ac
Weighted C		0.87	
Total Impervious	0.95	25.79	ac
Total Pervious	0.20	2.87	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		2.09	ac-ft
Required Treatment (1/2" over Area)		1.19	ac-ft
		2.09	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	27.70	ac-ft
Proposed Runoff Volume	44.80	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**17.09**	**ac-ft**
Floodplain Compensation	**0.00**	**ac-ft**
TOTAL STORAGE	**19.18**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	7.0 ft	Assumed Control EL	53.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	535 ft
WTOP OF SLOPE	267 ft
Area	3.28 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	690 ft
WSITE	369 ft
Area	5.84 ac

Pond 10-1

	Contour	Area	Storage	Cumulative	Notes
GIS	53	125003	0.0	0.0	
GIS	60	173284	1044004.5	1044004.5	

Cumulative Ret (ac-ft) Below Freeboard
23.97

Pond Area
4.0

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 10-2

Date: 2/28/2024

Full **Typical Section Width**

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	28.66	ac
Pond Parcel Area	6.00	ac
Total Area	34.66	ac

Basin Limits

1464+00 to 1505+50

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	8.38	98							821.62	8.38
Grass	20.28	39							790.77	20.28
Pond Site Pre Condition	6.00	39							234.00	6.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	34.66		0		0		0		1846.39	34.66
								WEIGHTED CN		53

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 9.6 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 8.8
$S = (1000/CN) - 10$

Estimated Runoff Volume = 27.70 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	28.66	ft^2
Pond Parcel Area	6.00	ft^2
Total Area	34.66	ft^2

Basin Limits

640+50 to 682+10

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	25.79	98							2526.94	25.79
Grass	2.87	39							112.12	2.87
Pond Site (Pervious)	2.50	39							97.50	2.50
Pond Site (Impervious)	3.50	100							350.00	3.50
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	34.66		0		0		0		3086.56	34.66
								WEIGHTED CN		89

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 15.5 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 1.2
$S = (1000/CN) - 10$

Estimated Runoff Volume = 44.80 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 10-2

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		28.66	ac
Weighted C		0.87	
Total Impervious	0.95	25.79	ac
Total Pervious	0.20	2.87	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		2.09	ac-ft
Required Treatment (1/2" over Area)		1.19	ac-ft
		2.09	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	27.70	ac-ft
Proposed Runoff Volume	44.80	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**17.09**	**ac-ft**
Floodplain Compensation	**0.00**	**ac-ft**
TOTAL STORAGE	**17.09**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	7.0 ft	Assumed Control EL	53.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	507 ft
WTOP OF SLOPE	253 ft
Area	2.95 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	656 ft
WSITE	352 ft
Area	5.30 ac

Pond 10-2

	Contour	Area	Storage	Cumulative	Notes
GIS	53	115081	0.0	0.0	
GIS	60	155210	946018.5	946018.5	

Cumulative Ret (ac-ft) Below Freeboard
21.72

Pond Area
3.6

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 10-3 | Full **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	28.66	ac
Pond Parcel Area	7.00	ac
Total Area	35.66	ac

Basin Limits

1464+00 to 1505+50

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impvervious	8.38	98							821.62	8.38
Grass	20.28	39							790.77	20.28
Pond Site Pre Condition	7.00	39							273.00	7.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	35.66		0		0		0		1885.39	35.66
								WEIGHTED CN		53

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 8.9
$S = (1000/CN) - 10$

Runoff Depth (Q) = 9.5 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 28.26 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	28.66	ft^2
Pond Parcel Area	7.00	ft^2
Total Area	35.66	ft^2

Basin Limits

640+50 to 682+10

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	25.79	98							2526.94	25.79
Grass	2.87	39							112.12	2.87
Pond Site (Pervious)	4.00	39							156.00	4.00
Pond Site (Impervious)	3.00	100							300.00	3.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	35.66		0		0		0		3095.06	35.66
								WEIGHTED CN		87

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 1.5
$S = (1000/CN) - 10$

Runoff Depth (Q) = 15.2 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 45.17 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 10-3

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		28.66	ac
Weighted C		0.87	
Total Impervious	0.95	25.79	ac
Total Pervious	0.20	2.87	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		2.09	ac-ft
Required Treatment (1/2" over Area)		1.19	ac-ft
		2.09	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	28.26	ac-ft
Proposed Runoff Volume	45.17	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**16.92**	**ac-ft**
Floodplain Compensation	**0.00**	**ac-ft**
TOTAL STORAGE	**16.92**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	6.0 ft	Assumed Control EL	58.50 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	538	ft
WTOP OF SLOPE	269	ft
Area	3.32	ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	693	ft
WSITE	371	ft
Area	5.90	ac

Pond 10-3

	Contour	Area	Storage	Cumulative	Notes
GIS	58.5	1434085	0.0	0.0	
GIS	60	1464365	2173837.5	2173837.5	

Cumulative Ret (ac-ft) Below Freeboard

49.90

Pond Area

33.6

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 11-1

Date: 2/28/2024

Full **Typical Section Width**

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	27.14	ac
Pond Parcel Area	8.14	ac
Total Area	35.28	ac

Basin Limits

1505+50 to 1545+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	7.98	98							782.02	7.98
Grass	19.16	39							747.25	19.16
Pond Site Pre Condition	8.14	39							317.46	8.14
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	35.28		0		0		0		1846.73	35.28
								WEIGHTED CN		52

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 9.1
$S = (1000/CN) - 10$

Runoff Depth (Q) = 9.4 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 27.64 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	27.14	ft^2
Pond Parcel Area	8.14	ft^2
Total Area	35.28	ft^2

Basin Limits

1505+50 to 1545+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	24.48	98							2399.38	24.48
Grass	2.66	39							103.60	2.66
Pond Site (Pervious)	3.00	39							117.00	3.00
Pond Site (Impervious)	4.00	100							400.00	4.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	34.14		0		0		0		3019.98	34.14
								WEIGHTED CN		88

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 1.3
$S = (1000/CN) - 10$

Runoff Depth (Q) = 15.4 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 43.90 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 11-1

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		27.14	ac
Weighted C		0.88	
Total Impervious	0.95	24.48	ac
Total Pervious	0.20	2.66	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		1.98	ac-ft
Required Treatment (1/2" over Area)		1.13	ac-ft
		1.98	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	27.64	ac-ft
Proposed Runoff Volume	43.90	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**16.25**	**ac-ft**
Floodplain Compensation	**0.00**	**ac-ft**
TOTAL STORAGE	**16.25**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	6.0 ft	Assumed Control EL	50.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	528 ft
WTOP OF SLOPE	264 ft
Area	3.20 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	681 ft
WSITE	365 ft
Area	5.70 ac

Pond 11-1

	Contour	Area	Storage	Cumulative	Notes
GIS	50	117955	0.0	0.0	
GIS	56	156815	824310.0	824310.0	

Cumulative Ret (ac-ft) Below Freeboard
18.92

Pond Area
3.6

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 11-2 | Full **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	27.14	ac
Pond Parcel Area	11.00	ac
Total Area	38.14	ac

Basin Limits

1505+50 to 1545+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	7.98	98							782.02	7.98
Grass	19.16	39							747.25	19.16
Pond Site Pre Condition	11.00	39							429.00	11.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	38.14		0		0		0		1958.27	38.14
								WEIGHTED CN		51

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 9.5
S = (1000/CN) - 10

Runoff Depth (Q) = 9.2 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 29.23 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	27.14	ft^2
Pond Parcel Area	11.00	ft^2
Total Area	38.14	ft^2

Basin Limits

1505+50 to 1545+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	24.48	98							2399.38	24.48
Grass	2.66	39							103.60	2.66
Pond Site (Pervious)	5.00	39							195.00	5.00
Pond Site (Impervious)	6.00	100							600.00	6.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	38.14		0		0		0		3297.98	38.14
								WEIGHTED CN		86

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 1.6
S = (1000/CN) - 10

Runoff Depth (Q) = 15.2 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 48.17 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 11-2

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		27.14	ac
Weighted C		0.88	
Total Impervious	0.95	24.48	ac
Total Pervious	0.20	2.66	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		1.98	ac-ft
Required Treatment (1/2" over Area)		1.13	ac-ft
		1.98	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	29.23	ac-ft
Proposed Runoff Volume	48.17	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**18.95**	**ac-ft**
Floodplain Compensation	**0.00**	**ac-ft**
TOTAL STORAGE	**18.95**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	3.0 ft	Assumed Control EL	53.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	777 ft
WTOP OF SLOPE	388 ft
Area	6.93 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	980 ft
WSITE	514 ft
Area	11.57 ac

Pond 11-2

	Contour	Area	Storage	Cumulative	Notes
GIS	50	144144	0.0	0.0	
GIS	56	188722	998598.0	998598.0	

Cumulative Ret (ac-ft) Below Freeboard
22.92

Pond Area
4.3

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 11-3

Date: 2/28/2024

Full **Typical Section Width**

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	27.14	ac
Pond Parcel Area	7.00	ac
Total Area	34.14	ac

Basin Limits

1505+50 to 1545+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	7.98	98							782.02	7.98
Grass	19.16	39							747.25	19.16
Pond Site Pre Condition	7.00	39							273.00	7.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	34.14		0		0		0		1802.27	34.14
								WEIGHTED CN		53

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 9.5 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 8.9
$S = (1000/CN) - 10$

Estimated Runoff Volume = 27.01 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	27.14	ft^2
Pond Parcel Area	7.00	ft^2
Total Area	34.14	ft^2

Basin Limits

1505+50 to 1545+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	24.48	98							2399.38	24.48
Grass	2.66	39							103.60	2.66
Pond Site (Pervious)	3.00	39							117.00	3.00
Pond Site (Impervious)	4.00	100							400.00	4.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	34.14		0		0		0		3019.98	34.14
								WEIGHTED CN		88

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 15.4 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 1.3
$S = (1000/CN) - 10$

Estimated Runoff Volume = 43.90 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 11-3

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		27.14	ac
Weighted C		0.88	
Total Impervious	0.95	24.48	ac
Total Pervious	0.20	2.66	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		1.98	ac-ft
Required Treatment (1/2" over Area)		1.13	ac-ft
		1.98	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	27.01	ac-ft
Proposed Runoff Volume	43.90	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**16.89**	**ac-ft**
Floodplain Compensation	**0.00**	**ac-ft**
TOTAL STORAGE	**16.89**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	6.0 ft	Assumed Control EL	50.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	537 ft
WTOP OF SLOPE	269 ft
Area	3.31 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

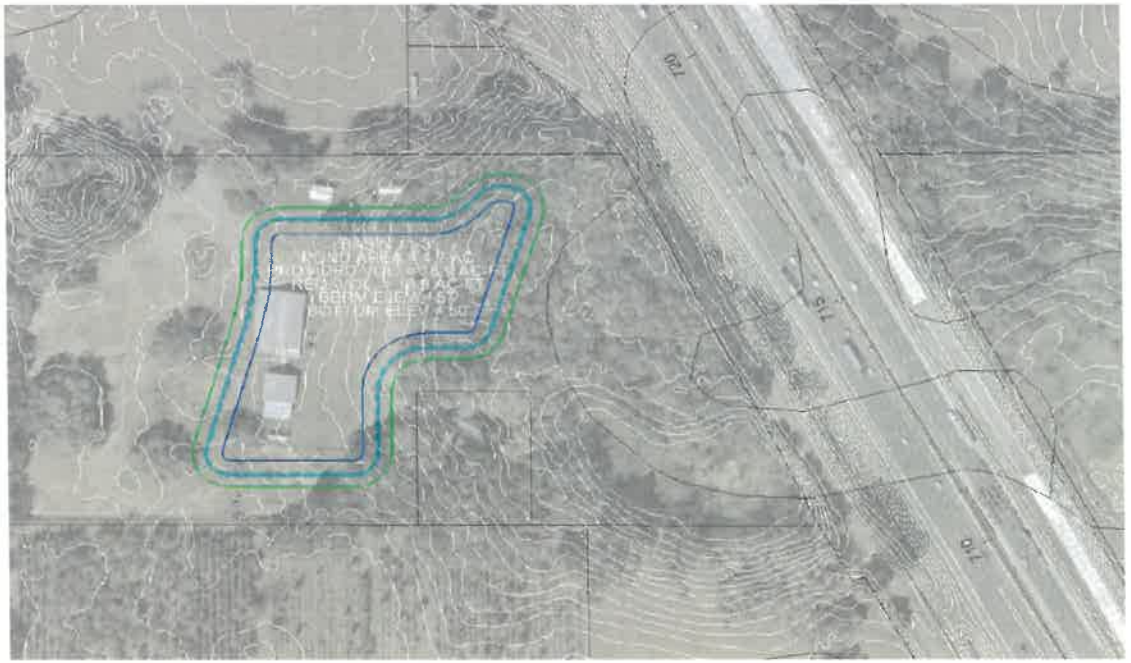
LSITE	693 ft
WSITE	370 ft
Area	5.89 ac

Pond 11-3

	Contour	Area	Storage	Cumulative	Notes
GIS	50	116695	0.0	0.0	
GIS	56	158428	825369.0	825369.0	

Cumulative Ret (ac-ft) Below Freeboard
18.95

Pond Area
3.6



POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Basin Name: 11-4 &12-4 | Full | **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	68.94	ac
Pond Parcel Area	15.70	ac
Total Area	84.64	ac

Basin Limits

1505+50 to 1596+50

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impvervious	18.38	98							1801.62	18.38
Grass	50.56	39							1971.69	50.56
Pond Site Pre Condition	15.70	39							612.30	15.70
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	84.64		0		0		0		4385.61	84.64
								WEIGHTED CN		52

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 9.3
S = (1000/CN) - 10

Runoff Depth (Q) = 9.3 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 65.55 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	68.94	ft^2
Pond Parcel Area	15.70	ft^2
Total Area	84.64	ft^2

Basin Limits

1505+50 to 1596+50

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	56.40	98							5527.69	56.40
Grass	12.54	39							488.87	12.54
Pond Site (Pervious)	3.00	39							117.00	3.00
Pond Site (Impervious)	4.00	100							400.00	4.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	75.94		0		0		0		6533.55	75.94
								WEIGHTED CN		86

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 1.6
S = (1000/CN) - 10

Runoff Depth (Q) = 15.1 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 95.54 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Basin Name: 11-4 &12-4

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		68.94	ac
Weighted C		0.81	
Total Impervious	0.95	56.40	ac
Total Pervious	0.20	12.54	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		4.67	ac-ft
Required Treatment (1/2" over Area)		2.87	ac-ft
		4.67	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	65.55	ac-ft
Proposed Runoff Volume	95.54	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**29.99**	**ac-ft**
Floodplain Compensation	**0.00**	**ac-ft**
TOTAL STORAGE	**34.66**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	6.0 ft	Assumed Control EL	50.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	756 ft
WTOP OF SLOPE	378 ft
Area	6.56 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	955 ft
WSITE	502 ft
Area	11.00 ac

Pond 11-4 &12-4

	Contour	Area	Storage	Cumulative	Notes
GIS	50	117955	0.0	0.0	
GIS	56	156815	824310.0	824310.0	
GIS	60	625000	1563630.0	2387940.0	

Cumulative Ret (ac-ft) Below Freeboard
54.82

Pond Area
14.3

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 12-1 | Full **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	41.8	ac
Pond Parcel Area	12.99	ac
Total Area	54.79	ac

Basin Limits

1545+00 to 1596+50

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impvervious	10.40	98							1019.60	10.40
Grass	31.40	39							1224.44	31.40
Pond Site Pre Condition	12.99	39							506.61	12.99
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	54.79		0		0		0		2750.65	54.79
								WEIGHTED CN		50

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 9.9
$S = (1000/CN) - 10$

Runoff Depth (Q) = 9.0 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 40.90 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	41.8	ft^2
Pond Parcel Area	12.99	ft^2
Total Area	54.79	ft^2

Basin Limits

1545+00 to 1596+50

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	31.92	98							3128.31	31.92
Grass	9.88	39							385.26	9.88
Pond Site (Pervious)	4.00	39							156.00	4.00
Pond Site (Impervious)	8.99	100							899.00	8.99
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	54.79		0		0		0		4568.57	54.79
								WEIGHTED CN		83

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 2.0
$S = (1000/CN) - 10$

Runoff Depth (Q) = 14.7 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 67.22 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 12-1

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		41.80	ac
Weighted C		0.77	
Total Impervious	0.95	31.92	ac
Total Pervious	0.20	9.88	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		2.69	ac-ft
Required Treatment (1/2" over Area)		1.74	ac-ft
		2.69	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	40.90	ac-ft
Proposed Runoff Volume	67.22	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**26.32**	**ac-ft**
Floodplain Compensation	**0.00**	**ac-ft**
TOTAL STORAGE	**26.32**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0	ft	Freeboard	1.0	ft
L/W Ratio	2.0		Side Slopes (1:H)	4.0	
Maximum Treatment Volume Depth	1.5	ft	Wet/Dry	Dry	
Maximum Pond Depth Below Freeboard	5.0	ft	Assumed Control EL	53.00	ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	719	ft
WTOP OF SLOPE	360	ft
Area	5.93	ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	911	ft
WSITE	479	ft
Area	10.03	ac

Pond 12-1 0

	Contour	Area	Storage	Cumulative		Notes
GIS	53	228890	0.0	0.0	Soil 9	
GIS	58	267417	1240767.5	1240767.5		

Cumulative Ret (ac-ft) Below Freeboard
28.48

Pond Area
6.1

602527
13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 12-2 | Full | **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	41.8	ac
Pond Parcel Area	10.00	ac
Total Area	51.8	ac

Basin Limits

1545+00 to 1596+50

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN		
Impervious	10.40	98							1019.60	10.40
Grass	31.40	39							1224.44	31.40
Pond Site Pre Condition	10.00	39							390.00	10.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	51.8		0		0		0		2634.04	51.8
								WEIGHTED CN		51

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 9.7
S = (1000/CN) - 10

Runoff Depth (Q) = 9.1 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 39.26 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	41.8	ft²
Pond Parcel Area	10.00	ft²
Total Area	51.8	ft²

Basin Limits

1545+00 to 1596+50

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN		
Impervious	31.92	98							3128.31	31.92
Grass	9.88	39							385.26	9.88
Pond Site (Pervious)	4.00	39							156.00	4.00
Pond Site (Impervious)	6.00	100							600.00	6.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	51.8		0		0		0		4269.57	51.8
								WEIGHTED CN		82

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 2.1
S = (1000/CN) - 10

Runoff Depth (Q) = 14.6 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 62.96 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 12-2

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		41.80	ac
Weighted C		0.77	
Total Impervious	0.95	31.92	ac
Total Pervious	0.20	9.88	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		2.69	ac-ft
Required Treatment (1/2" over Area)		1.74	ac-ft
		2.69	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	39.26	ac-ft
Proposed Runoff Volume	62.96	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**23.71**	**ac-ft**
Floodplain Compensation	**0.00**	**ac-ft**
TOTAL STORAGE	**23.71**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	5.0 ft	Assumed Control EL	53.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	684 ft
WTOP OF SLOPE	342 ft
Area	5.37 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

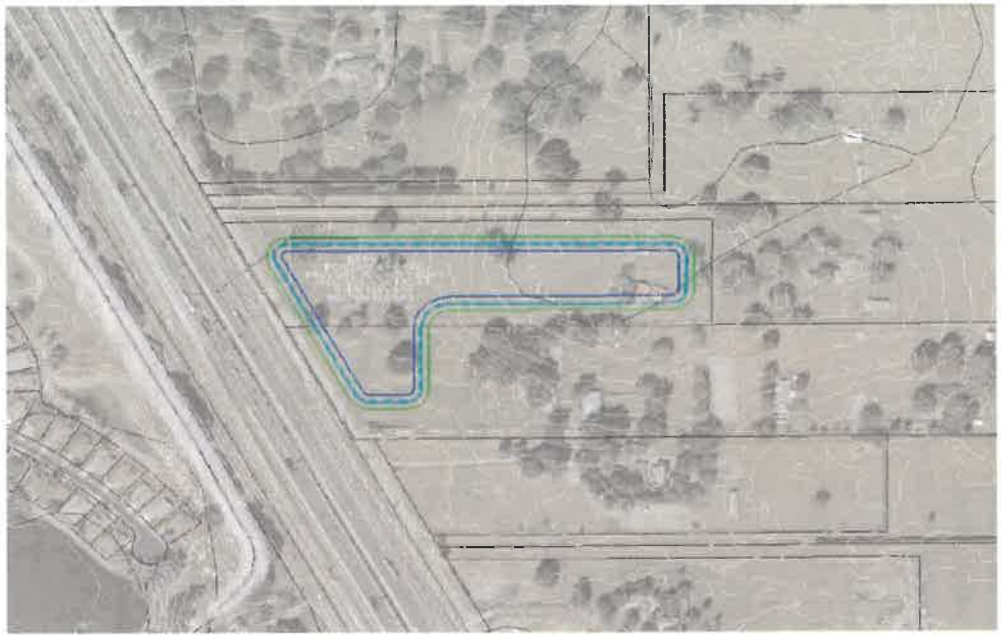
LSITE	869 ft
WSITE	458 ft
Area	9.14 ac

Pond **12-2** 0

	Contour	Area	Storage	Cumulative		Notes
GIS	53	232207	0.0	0.0	Soil 9	
GIS	58	292026	1310582.5	1310582.5		

Cumulative Ret (ac-ft) Below Freeboard
30.09

Pond Area
6.7 602527
13.83212



POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 12-3

Date: 2/28/2024

Full **Typical Section Width**

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	41.8	ac
Pond Parcel Area	10.00	ac
Total Area	51.8	ac

Basin Limits

1545+00 to 1596+50

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impvervious	10.40	98							1019.60	10.40
Grass	31.40	39							1224.44	31.40
Pond Site Pre Condition	10.00	39							390.00	10.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	51.8		0		0		0		2634.04	51.8
								WEIGHTED CN		51

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 9.1 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 9.7
$S = (1000/CN) - 10$

Estimated Runoff Volume = 39.26 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	41.8	ft^2
Pond Parcel Area	10.00	ft^2
Total Area	51.8	ft^2

Basin Limits

1545+00 to 1596+50

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	31.92	98							3128.31	31.92
Grass	9.88	39							385.26	9.88
Pond Site (Pervious)	4.00	39							156.00	4.00
Pond Site (Impervious)	6.00	100							600.00	6.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	51.8		0		0		0		4269.57	51.8
								WEIGHTED CN		82

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 14.6 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 2.1
$S = (1000/CN) - 10$

Estimated Runoff Volume = 62.96 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 12-3

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		41.80	ac
Weighted C		0.77	
Total Impervious	0.95	31.92	ac
Total Pervious	0.20	9.88	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		2.69	ac-ft
Required Treatment (1/2" over Area)		1.74	ac-ft
		2.69	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	39.26	ac-ft
Proposed Runoff Volume	62.96	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**23.71**	**ac-ft**
Floodplain Compensation	**0.00**	**ac-ft**
TOTAL STORAGE	**23.71**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0	ft	Freeboard	1.0	ft
L/W Ratio	2.0		Side Slopes (1:H)	4.0	
Maximum Treatment Volume Depth	1.5	ft	Wet/Dry	Dry	
Maximum Pond Depth Below Freeboard	5.0	ft	Assumed Control EL	53.00	ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	684	ft
WTOP OF SLOPE	342	ft
Area	5.37	ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	869	ft
WSITE	458	ft
Area	9.14	ac

Pond **12-3** 0

	Contour	Area	Storage	Cumulative		Notes
GIS	53	217566	0.0	0.0	Soil 9	
GIS	58	258529	1190237.5	1190237.5		

Cumulative Ret (ac-ft) Below Freeboard
27.32

Pond Area
5.9

602527
13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 13-1 | Full | **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	37.8	ac
Pond Parcel Area	17.50	ac
Total Area	55.3	ac

Basin Limits

1596+50 to 1642+50

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	9.29	98							910.71	9.29
Grass	28.51	39							1111.78	28.51
Pond Site Pre Condition	17.50	39							682.50	17.50
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	55.3		0		0		0		2704.98	55.3
								WEIGHTED CN		49

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 10.4
S = (1000/CN) - 10

Runoff Depth (Q) = 8.7 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 40.03 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	37.8	ft^2
Pond Parcel Area	17.50	ft^2
Total Area	55.3	ft^2

Basin Limits

1596+50 to 1642+50

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	28.51	98							2794.21	28.51
Grass	9.29	39							362.22	9.29
Pond Site (Pervious)	5.50	39							214.50	5.50
Pond Site (Impervious)	12.00	100							1200.00	12.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	55.3		0		0		0		4570.93	55.3
								WEIGHTED CN		83

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 2.1
S = (1000/CN) - 10

Runoff Depth (Q) = 14.6 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 67.37 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 13-1

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		37.80 ac
Weighted C		0.77
Total Impervious	0.95	28.51 ac
Total Pervious	0.20	9.29 ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N
Required Treatment (Runoff from 1" Rainfall)		2.41 ac-ft
Required Treatment (1/2" over Area)		1.58 ac-ft
		2.41 ac-ft

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	40.03 ac-ft
Proposed Runoff Volume	67.37 ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**27.34 ac-ft**
Floodplain Compensation	**0.00 ac-ft**
TOTAL STORAGE	**29.75 ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	2.0 ft	Assumed Control EL	60.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	1178 ft
WTOP OF SLOPE	589 ft
Area	15.92 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	1461 ft
WSITE	755 ft
Area	25.31 ac

Pond 13-1 0

	Contour	Area	Storage	Cumulative		Notes
GIS	60	196924	0.0	0.0	Soil 9	
GIS	65	233002	1074815.0	1074815.0		
GIS	71	760000	2979006.0	4053821.0		

Cumulative Rst (ac-ft) Below Freeboard
93.06

Pond Area
17.4

602527
13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 13-2

Date: 2/28/2024

Full **Typical Section Width**

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	37.8	ac
Pond Parcel Area	9.50	ac
Total Area	47.3	ac

Basin Limits

1596+50 to 1642+50

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impvervious	9.29	98							910.71	9.29
Grass	28.51	39							1111.78	28.51
Pond Site Pre Condition	9.50	39							370.50	9.50
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	47.3		0		0		0		2392.98	47.3
								WEIGHTED CN		51

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 9.8
$S = (1000/CN) - 10$

Runoff Depth (Q) = 9.0 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 35.63 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	37.8	ft^2
Pond Parcel Area	9.50	ft^2
Total Area	47.3	ft^2

Basin Limits

1596+50 to 1642+50

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	28.51	98							2794.21	28.51
Grass	9.29	39							362.22	9.29
Pond Site (Pervious)	4.00	39							156.00	4.00
Pond Site (Impervious)	5.50	100							550.00	5.50
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	47.3		0		0		0		3862.43	47.3
								WEIGHTED CN		82

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 2.2
$S = (1000/CN) - 10$

Runoff Depth (Q) = 14.5 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 57.05 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 13-2

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		37.80	ac
Weighted C		0.77	
Total Impervious	0.95	28.51	ac
Total Pervious	0.20	9.29	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		2.41	ac-ft
Required Treatment (1/2" over Area)		1.58	ac-ft
		2.41	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	35.63	ac-ft
Proposed Runoff Volume	57.05	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**21.42**	**ac-ft**
Floodplain Compensation	**0.00**	**ac-ft**
TOTAL STORAGE	**21.42**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0	ft	Freeboard	1.0	ft
L/W Ratio	2.0		Side Slopes (1:H)	4.0	
Maximum Treatment Volume Depth	1.5	ft	Wet/Dry	Dry	
Maximum Pond Depth Below Freeboard	5.0	ft	Assumed Control EL	60.00	ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	651	ft
WTOP OF SLOPE	326	ft
Area	4.87	ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	830	ft
WSITE	439	ft
Area	8.36	ac

Pond **13-2** 0

	Contour	Area	Storage	Cumulative		Notes
GIS	60	203623	0.0	0.0	Soil 9	
GIS	65	240835	1111145.0	1111145.0		

Cumulative Ret (ac-ft) Below Freeboard

25.51

Pond Area

5.5

602527

13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 13-3 | Full | **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	37.8	ac
Pond Parcel Area	9.50	ac
Total Area	47.3	ac

Basin Limits

1596+50 to 1642+50

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impvervious	9.29	98							910.71	9.29
Grass	28.51	39							1111.78	28.51
Pond Site Pre Condition	9.50	39							370.50	9.50
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	47.3		0		0		0		2392.98	47.3
								WEIGHTED CN		51

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 9.8
$S = (1000/CN) - 10$

Runoff Depth (Q) = 9.0 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 35.63 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	37.8	ft^2
Pond Parcel Area	9.50	ft^2
Total Area	47.3	ft^2

Basin Limits

1596+50 to 1642+50

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	28.51	98							2794.21	28.51
Grass	9.29	39							362.22	9.29
Pond Site (Pervious)	4.00	39							156.00	4.00
Pond Site (Impervious)	5.50	100							550.00	5.50
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	47.3		0		0		0		3862.43	47.3
								WEIGHTED CN		82

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 2.2
$S = (1000/CN) - 10$

Runoff Depth (Q) = 14.5 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 57.05 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 13-3

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		37.80	ac
Weighted C		0.77	
Total Impervious	0.95	28.51	ac
Total Pervious	0.20	9.29	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		2.41	ac-ft
Required Treatment (1/2" over Area)		1.58	ac-ft
		2.41	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	35.63	ac-ft
Proposed Runoff Volume	57.05	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**21.42**	**ac-ft**
Floodplain Compensation	**0.00**	**ac-ft**
TOTAL STORAGE	**21.42**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	5.0 ft	Assumed Control EL	60.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	651 ft
WTOP OF SLOPE	326 ft
Area	4.87 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	830 ft
WSITE	439 ft
Area	8.36 ac

Pond **13-3** 0

	Contour	Area	Storage	Cumulative		Notes
GIS	60	198950	0.0	0.0	Soil 9	
GIS	65	235744	1086735.0	1086735.0		

Cumulative Ret (ac-ft) Below Freeboard
24.95

Pond Area
5.4

602527
13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 14-1/15-1

Date: 2/28/2024

Full **Typical Section Width**

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	35.15	ac
Pond Parcel Area	9.00	ac
Total Area	44.15	ac

Basin Limits

1642+50 to 1684+80

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	8.55	98							837.45	8.55
Grass	26.60	39							1037.58	26.60
Pond Site Pre Condition	9.00	39							351.00	9.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	44.15		0		0		0		2226.03	44.15
								WEIGHTED CN		50

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 9.8
$S = (1000/CN) - 10$

Runoff Depth (Q) = 9.0 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 33.13 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	35.15	ft^2
Pond Parcel Area	9.00	ft^2
Total Area	44.15	ft^2

Basin Limits

1642+50 to 1684+80

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	26.22	98							2569.46	26.22
Grass	8.93	39							348.31	8.93
Pond Site (Pervious)	3.50	39							136.50	3.50
Pond Site (Impervious)	5.00	100							500.00	5.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	43.65		0		0		0		3554.27	43.65
								WEIGHTED CN		81

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 2.3
$S = (1000/CN) - 10$

Runoff Depth (Q) = 14.4 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 52.53 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 14-1/15-1

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		35.15	ac
Weighted C		0.76	
Total Impervious	0.95	26.22	ac
Total Pervious	0.20	8.93	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		2.22	ac-ft
Required Treatment (1/2" over Area)		1.46	ac-ft
		2.22	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	33.13	ac-ft
Proposed Runoff Volume	52.53	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**19.40**	**ac-ft**
Floodplain Compensation	**0.00**	**ac-ft**
TOTAL STORAGE	**19.40**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0	ft	Freeboard	1.0	ft
L/W Ratio	2.0		Side Slopes (1:H)	4.0	
Maximum Treatment Volume Depth	1.5	ft	Wet/Dry	Dry	
Maximum Pond Depth Below Freeboard	5.0	ft	Assumed Control EL		ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	621	ft
WTOP OF SLOPE	311	ft
Area	4.43	ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	794	ft
WSITE	421	ft
Area	7.67	ac

Pond 14-1/15-1

	Contour	Area	Storage	Cumulative	Notes
GIS	54	164786	0.0	0.0	
GIS	60	225022	1169424.0	1169424.0	

Cumulative Ret (ac-ft) Below Freeboard
26.85

Pond Area
5.2

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 14-2 | Full **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	18.8	ac
Pond Parcel Area	5.00	ac
Total Area	23.8	ac

Basin Limits

1642+50 to 1669+80

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impvervious	5.52	98							540.48	5.52
Grass	13.28	39							518.11	13.28
Pond Site Pre Condition	5.00	39							195.00	5.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	23.8		0		0		0		1253.59	23.8
								WEIGHTED CN		53

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 9.0
S = (1000/CN) - 10

Runoff Depth (Q) = 9.5 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 18.78 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	18.8	ft^2
Pond Parcel Area	5.00	ft^2
Total Area	23.8	ft^2

Basin Limits

1642+50 to 1669+80

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	16.92	98							1658.31	16.92
Grass	1.88	39							73.26	1.88
Pond Site (Pervious)	2.00	39							78.00	2.00
Pond Site (Impervious)	3.00	100							300.00	3.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	23.8		0		0		0		2109.57	23.8
								WEIGHTED CN		89

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 1.3
S = (1000/CN) - 10

Runoff Depth (Q) = 15.5 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 30.65 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 14-2

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		18.80	ac
Weighted C		0.88	
Total Impervious	0.95	16.92	ac
Total Pervious	0.20	1.88	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		1.37	ac-ft
Required Treatment (1/2" over Area)		0.78	ac-ft
		1.37	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	18.78	ac-ft
Proposed Runoff Volume	30.65	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**11.87**	**ac-ft**
Floodplain Compensation	**0.00**	**ac-ft**
TOTAL STORAGE	**11.87**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	6.0 ft	Assumed Control EL	62.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	456 ft
WTOP OF SLOPE	228 ft
Area	2.38 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	595 ft
WSITE	321 ft
Area	4.39 ac

Pond **14-2** 0

	Contour	Area	Storage	Cumulative	Notes
GIS	62	99303	0.0	0.0	
GIS	67.6	133822	652750.0	652750.0	

Cumulative Ret (ac-ft) Below Freeboard
14.99

Pond Area
3.1 602527
13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 14-3

Date: 2/28/2024

Full **Typical Section Width**

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	18.8	ac
Pond Parcel Area	5.00	ac
Total Area	23.8	ac

Basin Limits

1642+50 to 1669+80

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	5.52	98							540.48	5.52
Grass	13.28	39							518.11	13.28
Pond Site Pre Condition	5.00	39							195.00	5.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	23.8		0		0		0		1253.59	23.8
								WEIGHTED CN		53

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 9.5 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 9.0
$S = (1000/CN) - 10$

Estimated Runoff Volume = 18.78 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	18.8	ft^2
Pond Parcel Area	5.00	ft^2
Total Area	23.8	ft^2

Basin Limits

1642+50 to 1669+80

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	16.92	98							1658.31	16.92
Grass	1.88	39							73.26	1.88
Pond Site (Pervious)	2.00	39							78.00	2.00
Pond Site (Impervious)	3.00	100							300.00	3.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	23.8		0		0		0		2109.57	23.8
								WEIGHTED CN		89

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 15.5 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 1.3
$S = (1000/CN) - 10$

Estimated Runoff Volume = 30.65 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 14-3

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		18.80	ac
Weighted C		0.88	
Total Impervious	0.95	16.92	ac
Total Pervious	0.20	1.88	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		1.37	ac-ft
Required Treatment (1/2" over Area)		0.78	ac-ft
		1.37	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	18.78	ac-ft
Proposed Runoff Volume	30.65	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**11.87**	**ac-ft**
Floodplain Compensation	**0.00**	**ac-ft**
TOTAL STORAGE	**11.87**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0	ft	Freeboard	1.0	ft
L/W Ratio	2.0		Side Slopes (1:H)	4.0	
Maximum Treatment Volume Depth	1.5	ft	Wet/Dry	Dry	
Maximum Pond Depth Below Freeboard	6.0	ft	Assumed Control EL	62.00	ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	456	ft
WTOP OF SLOPE	228	ft
Area	2.38	ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	595	ft
WSITE	321	ft
Area	4.39	ac

Pond **14-3** 0

	Contour	Area	Storage	Cumulative	Notes
GIS	62	90258	0.0	0.0	
GIS	67.6	121333	592454.8	592454.8	

Cumulative Ret (ac-ft) Below Freeboard
13.60

Pond Area
2.8

602527
13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 14-3/15-3 | Full | **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	35.15	ac
Pond Parcel Area	10.23	ac
Total Area	45.38	ac

Basin Limits

1642+50 to 1684+80

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	8.55	98							837.45	8.55
Grass	26.60	39							1037.58	26.60
Pond Site Pre Condition	10.23	39							398.97	10.23
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	45.38		0		0		0		2274.00	45.38
								WEIGHTED CN		50

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 10.0
$S = (1000/CN) - 10$

Runoff Depth (Q) = 8.9 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 33.81 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	35.15	ft^2
Pond Parcel Area	10.23	ft^2
Total Area	45.38	ft^2

Basin Limits

1642+50 to 1684+80

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	26.22	98							2569.46	26.22
Grass	8.93	39							348.31	8.93
Pond Site (Pervious)	2.80	39							109.20	2.80
Pond Site (Impervious)	7.43	100							743.00	7.43
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	45.38		0		0		0		3769.97	45.38
								WEIGHTED CN		83

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 2.0
$S = (1000/CN) - 10$

Runoff Depth (Q) = 14.7 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 55.51 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 14-3/15-3

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		35.15	ac
Weighted C		0.76	
Total Impervious	0.95	26.22	ac
Total Pervious	0.20	8.93	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		2.22	ac-ft
Required Treatment (1/2" over Area)		1.46	ac-ft
		2.22	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	33.81	ac-ft
Proposed Runoff Volume	55.51	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**21.71**	**ac-ft**
Floodplain Compensation	**0.00**	**ac-ft**
TOTAL STORAGE	**21.71**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0	ft	Freeboard	1.0	ft
L/W Ratio	2.0		Side Slopes (1:H)	4.0	
Maximum Treatment Volume Depth	1.5	ft	Wet/Dry	Dry	
Maximum Pond Depth Below Freeboard	5.0	ft	Assumed Control EL		ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	656	ft
WTOP OF SLOPE	328	ft
Area	4.93	ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	835	ft
WSITE	441	ft
Area	8.46	ac

Pond 14-3 & 15-3

	Contour	Area	Storage	Cumulative	Notes
GIS	60	90258	0.0	0.0	
GIS	65	135720	564945.0	564945.0	
GIS	68	162350	447105.0	1012050.0	

Cumulative Ret (ac-ft) Below Freeboard

23.23

Pond Area

3.7 602527

13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 15-1

Date: 5/22/2023

Full **Typical Section Width**

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	16.35	ac
Pond Parcel Area	4.00	ac
Total Area	20.35	ac

Basin Limits

846+30 to 861+35

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	3.04	98							297.96	3.04
Grass	13.31	39							519.07	13.31
Pond Site Pre Condition	4.00	39							156.00	4.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	20.35		0		0		0		973.03	20.35
								WEIGHTED CN		48

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 8.5 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 10.9
$S = (1000/CN) - 10$

Estimated Runoff Volume = 14.33 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	16.35	ft^2
Pond Parcel Area	4.00	ft^2
Total Area	20.35	ft^2

Basin Limits

846+30 to 861+35

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	9.33	98							914.19	9.33
Grass	7.02	39							273.84	7.02
Pond Site (Pervious)	2.00	39							78.00	2.00
Pond Site (Impervious)	2.00	100							200.00	2.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	20.35		0		0		0		1466.03	20.35
								WEIGHTED CN		72

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 13.0 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 3.9
$S = (1000/CN) - 10$

Estimated Runoff Volume = 22.04 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 15-1

Date: 5/22/2023

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		16.35	ac
Weighted C		0.63	
Total Impervious	0.95	9.33	ac
Total Pervious	0.20	7.02	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		0.86	ac-ft
Required Treatment (1/2" over Area)		0.68	ac-ft
		0.86	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	14.33	ac-ft
Proposed Runoff Volume	22.04	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**7.71**	**ac-ft**
Flood Plain Compensation	0.00	ac-ft
TOTAL STORAGE	**7.71**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0	ft	Freeboard	1.0	ft
L/W Ratio	2.0		Side Slopes (1:H)	4.0	
Maximum Treatment Volume Depth	1.5	ft	Wet/Dry	Dry	
Maximum Pond Depth Below Freeboard	5.0	ft	Assumed Control EL	72.00	ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	402	ft
WTOP OF SLOPE	201	ft
Area	1.85	ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	530	ft
WSITE	289	ft
Area	3.52	ac

Pond **15-1** 0

	Contour	Area	Storage	Cumulative	Notes
GIS	72	87734	0.0	0.0	
GIS	77	111560	498235.0	498235.0	

Cumulative Ret (ac-ft) Below Freeboard
11.44

Pond Area
2.6

602527
13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 15-2

Date: 2/28/2024

Full **Typical Section Width**

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	16.35	ac
Pond Parcel Area	4.00	ac
Total Area	20.35	ac

Basin Limits

1669+80 to 1684+80

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN		
Impvervious	3.03	98							296.97	3.03
Grass	13.32	39							519.47	13.32
Pond Site Pre Condition	4.00	39							156.00	4.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	20.35		0		0		0		972.44	20.35
								WEIGHTED CN		48

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 10.9
S = (1000/CN) - 10

Runoff Depth (Q) = 8.4 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 14.32 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	16.35	ft²
Pond Parcel Area	4.00	ft²
Total Area	20.35	ft²

Basin Limits

1669+80 to 1684+80

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN		
Impervious	9.30	98							911.16	9.30
Grass	7.05	39							275.05	7.05
Pond Site (Pervious)	2.00	39							78.00	2.00
Pond Site (Impervious)	2.00	100							200.00	2.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	20.35		0		0		0		1464.20	20.35
								WEIGHTED CN		72

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 3.9
S = (1000/CN) - 10

Runoff Depth (Q) = 13.0 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 22.01 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 15-2

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		16.35 ac
Weighted C		0.63
Total Impervious	0.95	9.30 ac
Total Pervious	0.20	7.05 ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N
Required Treatment (Runoff from 1" Rainfall)		0.85 ac-ft
Required Treatment (1/2" over Area)		0.68 ac-ft
		0.85 ac-ft

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	14.32 ac-ft
Proposed Runoff Volume	22.01 ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**7.69 ac-ft**
Flood Plain Compensation	0.00 ac-ft
TOTAL STORAGE	**7.69 ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	5.0 ft	Assumed Control EL	72.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	402 ft
WTOP OF SLOPE	201 ft
Area	1.85 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	530 ft
WSITE	289 ft
Area	3.52 ac

Pond **15-2** 0

	Contour	Area	Storage	Cumulative	Notes
GIS	72	74073	0.0	0.0	
GIS	77	97710	429457.5	429457.5	

Cumulative Ret (ac-ft) Below Freeboard

9.86

Pond Area

2.2 602527

13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 15-3

Date: 5/22/2023

Full **Typical Section Width**

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	16.35	ac
Pond Parcel Area	4.00	ac
Total Area	20.35	ac

Basin Limits

846+30 to 861+35

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	3.04	98							297.96	3.04
Grass	13.31	39							519.07	13.31
Pond Site Pre Condition	4.00	39							156.00	4.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	20.35		0		0		0		973.03	20.35
								WEIGHTED CN		48

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 8.5 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 10.9
$S = (1000/CN) - 10$

Estimated Runoff Volume = 14.33 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	16.35	ft^2
Pond Parcel Area	4.00	ft^2
Total Area	20.35	ft^2

Basin Limits

846+30 to 861+35

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	9.33	98							914.19	9.33
Grass	7.02	39							273.84	7.02
Pond Site (Pervious)	2.00	39							78.00	2.00
Pond Site (Impervious)	2.00	100							200.00	2.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	20.35		0		0		0		1466.03	20.35
								WEIGHTED CN		72

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 13.0 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 3.9
$S = (1000/CN) - 10$

Estimated Runoff Volume = 22.04 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 15-3

Date: 5/22/2023

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		16.35	ac
Weighted C		0.63	
Total Impervious	0.95	9.33	ac
Total Pervious	0.20	7.02	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		0.86	ac-ft
Required Treatment (1/2" over Area)		0.68	ac-ft
		0.86	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	14.33	ac-ft
Proposed Runoff Volume	22.04	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**7.71**	**ac-ft**
Flood Plain Compensation	0.00	ac-ft
TOTAL STORAGE	**7.71**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	5.0 ft	Assumed Control EL	71.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	402 ft
WTOP OF SLOPE	201 ft
Area	1.85 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	530 ft
WSITE	289 ft
Area	3.52 ac

Pond **15-3** 0

	Contour	Area	Storage	Cumulative	Notes
GIS	71	72027	0.0	0.0	
GIS	76	94340	415917.5	415917.5	

Cumulative Ret (ac-ft) Below Freeboard
9.55

Pond Area
2.2

602527
13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 16-1 | Full | **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	31.45	ac
Pond Parcel Area	9.80	ac
Total Area	41.25	ac

Basin Limits

1684+80 to 1722+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	7.52	98							736.48	7.52
Grass	23.93	39							933.46	23.93
Pond Site Pre Condition	9.80	39							382.20	9.80
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	41.25		0		0		0		2052.14	41.25
								WEIGHTED CN		50

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 10.1
$S = (1000/CN) - 10$

Runoff Depth (Q) = 8.9 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 30.47 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	31.45	ft^2
Pond Parcel Area	9.80	ft^2
Total Area	41.25	ft^2

Basin Limits

1684+80 to 1722+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	23.06	98							2259.67	23.06
Grass	8.39	39							327.29	8.39
Pond Site (Pervious)	5.80	39							226.20	5.80
Pond Site (Impervious)	4.00	100							400.00	4.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	41.25		0		0		0		3213.16	41.25
								WEIGHTED CN		78

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 2.8
$S = (1000/CN) - 10$

Runoff Depth (Q) = 13.9 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 47.83 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 16-1

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		31.45	ac
Weighted C		0.75	
Total Impervious	0.95	23.06	ac
Total Pervious	0.20	8.39	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		1.97	ac-ft
Required Treatment (1/2" over Area)		1.31	ac-ft
		1.97	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	30.47 ac-ft
Proposed Runoff Volume	47.83 ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**17.36 ac-ft**
Floodplain Compensation	**0.00 ac-ft**
TOTAL STORAGE	**17.36 ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	5.0 ft	Assumed Control EL	71.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	589 ft
WTOP OF SLOPE	295 ft
Area	3.99 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	755 ft
WSITE	402 ft
Area	6.96 ac

Pond **16-1** 0

	Contour	Area	Storage	Cumulative		Notes
GIS	65	24474	0.0	0.0	Soil 15	
GIS	70	73000	243685.0	243685.0		
GIS	75	136000	522500.0	766185.0		

Cumulative Ret (ac-ft) Below Freeboard

17.59

Pond Area

1.7

602527

13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 16-1/17-3 | Full | **Typical Section Width**

Date: 5/23/2023

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	88.39	ac
Pond Parcel Area	9.80	ac
Total Area	98.19	ac

Basin Limits

1684+80 to 1768+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN		
Impvervious	16.81	98							1647.19	16.81
Grass	71.58	39							2791.69	71.58
Pond Site Pre Condition	9.80	39							382.20	9.80
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	98.19		0		0		0		4821.09	98.19
								WEIGHTED CN		49

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 10.4
S = (1000/CN) - 10

Runoff Depth (Q) = 8.7 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 71.40 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	88.39	ac
Pond Parcel Area	9.80	ac
Total Area	98.19	ac

Basin Limits

1684+80 to 1768+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN		
Impervious	51.57	98							5053.88	51.57
Grass	36.82	39							1435.97	36.82
Pond Site (Pervious)	3.80	39							148.20	3.80
Pond Site (Impervious)	6.00	100							600.00	6.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	98.19		0		0		0		7238.05	98.19
								WEIGHTED CN		74

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 3.6
S = (1000/CN) - 10

Runoff Depth (Q) = 13.3 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 108.54 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 16-1/17-3

Date: 5/23/2023

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		88.39	ac
Weighted C		0.64	
Total Impervious	0.95	51.57	ac
Total Pervious	0.20	36.82	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		4.70	ac-ft
Required Treatment (1/2" over Area)		3.68	ac-ft
		4.70	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	71.40	ac-ft
Proposed Runoff Volume	108.54	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**37.14**	**ac-ft**
Floodplain Compensation	**3.65**	**ac-ft**
TOTAL STORAGE	**40.79**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	6.0 ft	Assumed Control EL	47.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	817 ft
WTOP OF SLOPE	409 ft
Area	7.67 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	1029 ft
WSITE	538 ft
Area	12.72 ac

Pond 16-1/17-3 0

	Contour	Area	Storage	Cumulative	Notes
GIS	60	196636	0.0	0.0	
GIS	65	334000	1326590.0	1326590.0	
GIS	69	425100	1518200.0	2844790.0	

Cumulative Ret (ac-ft) Below Freeboard

65.31

Pond Area

9.8

602527

13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 16-2 | Full | **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	31.45	ac
Pond Parcel Area	7.50	ac
Total Area	38.95	ac

Basin Limits

1684+80 to 1722+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN		
Impervious	7.52	98							736.48	7.52
Grass	23.93	39							933.46	23.93
Pond Site Pre Condition	8.01	39							312.39	8.01
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	39.46		0		0		0		1982.33	39.46
									WEIGHTED CN	50

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 9.9
S = (1000/CN) - 10

Runoff Depth (Q) = 9.0 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 29.48 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	31.45	ft²
Pond Parcel Area	7.50	ft²
Total Area	38.95	ft²

Basin Limits

1684+80 to 1722+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN		
Impervious	23.06	98							2259.67	23.06
Grass	8.39	39							327.29	8.39
Pond Site (Pervious)	2.50	39							97.50	2.50
Pond Site (Impervious)	5.51	100							551.00	5.51
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	39.46		0		0		0		3235.46	39.46
									WEIGHTED CN	82

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 2.2
S = (1000/CN) - 10

Runoff Depth (Q) = 14.5 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 47.76 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 16-2

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		31.45	ac
Weighted C		0.75	
Total Impervious	0.95	23.06	ac
Total Pervious	0.20	8.39	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		1.97	ac-ft
Required Treatment (1/2" over Area)		1.31	ac-ft
		1.97	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	29.48 ac-ft
Proposed Runoff Volume	47.76 ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**18.27 ac-ft**
Floodplain Compensation	**0.00 ac-ft**
TOTAL STORAGE	**18.27 ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	6.0 ft	Assumed Control EL	70.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	558 ft
WTOP OF SLOPE	279 ft
Area	3.57 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	717 ft
WSITE	383 ft
Area	6.30 ac

Pond **16-2** 0

	Contour	Area	Storage	Cumulative		Notes
GIS	72	22535	0.0	0.0	Soil 15	
GIS	78	78950	304455.0	304455.0		
GIS	83	142550	553750.0	858205.0		

Cumulative Ret (ac-ft) Below Freeboard

19.70

Pond Area

3.3

602527

13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 16-3

Date: 2/28/2024

Full **Typical Section Width**

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	31.45	ac
Pond Parcel Area	11.80	ac
Total Area	43.25	ac

Basin Limits

1684+80 to 1722+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	7.52	98							736.48	7.52
Grass	23.93	39							933.46	23.93
Pond Site Pre Condition	11.80	39							460.20	11.80
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	43.25		0		0		0		2130.14	43.25
								WEIGHTED CN		49

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 8.8 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 10.3
$S = (1000/CN) - 10$

Estimated Runoff Volume = 31.57 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	31.45	ft^2
Pond Parcel Area	11.80	ft^2
Total Area	43.25	ft^2

Basin Limits

1684+80 to 1722+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	23.06	98							2259.67	23.06
Grass	8.39	39							327.29	8.39
Pond Site (Pervious)	7.80	39							304.20	7.80
Pond Site (Impervious)	4.00	100							400.00	4.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	43.25		0		0		0		3291.16	43.25
								WEIGHTED CN		76

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 13.6 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 3.1
$S = (1000/CN) - 10$

Estimated Runoff Volume = 49.16 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 16-3

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		31.45	ac
Weighted C		0.75	
Total Impervious	0.95	23.06	ac
Total Pervious	0.20	8.39	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		1.97	ac-ft
Required Treatment (1/2" over Area)		1.31	ac-ft
		1.97	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	31.57	ac-ft
Proposed Runoff Volume	49.16	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**17.59**	**ac-ft**
Floodplain Compensation	**0.00**	**ac-ft**
TOTAL STORAGE	**17.59**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	5.0 ft	Assumed Control EL	71.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	593	ft
WTOP OF SLOPE	296	ft
Area	4.04	ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	760	ft
WSITE	404	ft
Area	7.04	ac

Pond **16-3** 0

	Contour	Area	Storage	Cumulative	Notes
GIS	64	21421	0.0	0.0	
GIS	68	94540	231922.0	231922.0	
GIS	73	136350	577225.0	809147.0	

Cumulative Ret (ac-ft) Below Freeboard

18.58

Pond Area

3.1

602527

13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 17-1

Date: 2/28/2024

Full **Typical Section Width**

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	56.94	ac
Pond Parcel Area	10.00	ac
Total Area	66.94	ac

Basin Limits

1722+00 to 1768+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	9.29	98							910.71	9.29
Grass	47.65	39							1858.24	47.65
Pond Site Pre Condition	10.00	39							390.00	10.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	66.94		0		0		0		3158.94	66.94
								WEIGHTED CN		47

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 11.2
$S = (1000/CN) - 10$

Runoff Depth (Q) = 8.3 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 46.39 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	56.94	ac
Pond Parcel Area	10.00	ac
Total Area	66.94	ac

Basin Limits

1722+00 to 1768+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	28.51	98							2794.21	28.51
Grass	28.43	39							1108.68	28.43
Pond Site (Pervious)	4.00	39							156.00	4.00
Pond Site (Impervious)	6.00	100							600.00	6.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	66.94		0		0		0		4658.89	66.94
								WEIGHTED CN		70

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 4.4
$S = (1000/CN) - 10$

Runoff Depth (Q) = 12.6 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 70.25 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 17-1

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		56.94 ac
Weighted C		0.58
Total Impervious	0.95	28.51 ac
Total Pervious	0.20	28.43 ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N
Required Treatment (Runoff from 1" Rainfall)		2.73 ac-ft
Required Treatment (1/2" over Area)		2.37 ac-ft
		2.73 ac-ft

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	46.39 ac-ft
Proposed Runoff Volume	70.25 ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**23.87 ac-ft**
Floodplain Compensation	**3.65 ac-ft**
TOTAL STORAGE	**27.52 ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	7.0 ft	Assumed Control EL	49.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	633 ft
WTOP OF SLOPE	317 ft
Area	4.60 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	808 ft
WSITE	428 ft
Area	7.94 ac

Pond **17-1** 0

	Contour	Area	Storage	Cumulative	Notes
GIS	49	211868	0.0	0.0	
GIS	56	266205	1673255.5	1673255.5	

Cumulative Ret (ac-ft) Below Freeboard
38.41

Pond Area
6.1

602527
13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 17-2

Date: 2/28/2024

Full **Typical Section Width**

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	56.94	ac
Pond Parcel Area	10.00	ac
Total Area	66.94	ac

Basin Limits

1722+00 to 1768+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impvervious	9.29	98							910.71	9.29
Grass	47.65	39							1858.24	47.65
Pond Site Pre Condition	10.00	39							390.00	10.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	66.94		0		0		0		3158.94	66.94
								WEIGHTED CN		47

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 8.3 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 11.2
$S = (1000/CN) - 10$

Estimated Runoff Volume = 46.39 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	56.94	ac
Pond Parcel Area	10.00	ac
Total Area	66.94	ac

Basin Limits

1722+00 to 1768+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	28.51	98							2794.21	28.51
Grass	28.43	39							1108.68	28.43
Pond Site (Pervious)	4.00	39							156.00	4.00
Pond Site (Impervious)	6.00	100							600.00	6.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	66.94		0		0		0		4658.89	66.94
								WEIGHTED CN		70

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 12.6 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 4.4
$S = (1000/CN) - 10$

Estimated Runoff Volume = 70.25 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 17-2

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		56.94	ac
Weighted C		0.58	
Total Impervious	0.95	28.51	ac
Total Pervious	0.20	28.43	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		2.73	ac-ft
Required Treatment (1/2" over Area)		2.37	ac-ft
		2.73	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	46.39	ac-ft
Proposed Runoff Volume	70.25	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**23.87**	**ac-ft**
Floodplain Compensation	**3.65**	**ac-ft**
TOTAL STORAGE	**27.52**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	7.0 ft	Assumed Control EL	47.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	633 ft
WTOP OF SLOPE	317 ft
Area	4.60 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	808 ft
WSITE	428 ft
Area	7.94 ac

Pond **17-2** 0

	Contour	Area	Storage	Cumulative	Notes
GIS	47	199247	0.0	0.0	
GIS	54	250898	1575507.5	1575507.5	

Cumulative Ret (ac-ft) Below Freeboard
36.17

Pond Area
5.8

602527
13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 17-3 | Full **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	56.94	ac
Pond Parcel Area	8.50	ac
Total Area	65.44	ac

Basin Limits

1722+00 to 1768+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	9.29	98							910.71	9.29
Grass	47.65	39							1858.24	47.65
Pond Site Pre Condition	8.50	39							331.50	8.50
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	65.44		0		0		0		3100.44	65.44
								WEIGHTED CN		47

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 11.1
$S = (1000/CN) - 10$

Runoff Depth (Q) = 8.4 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 45.57 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	56.94	ac
Pond Parcel Area	8.50	ac
Total Area	65.44	ac

Basin Limits

1722+00 to 1768+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	28.51	98							2794.21	28.51
Grass	28.43	39							1108.68	28.43
Pond Site (Pervious)	2.50	39							97.50	2.50
Pond Site (Impervious)	6.00	100							600.00	6.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	65.44		0		0		0		4600.39	65.44
								WEIGHTED CN		70

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 4.2
$S = (1000/CN) - 10$

Runoff Depth (Q) = 12.7 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 69.31 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 17-3

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		56.94	ac
Weighted C		0.58	
Total Impervious	0.95	28.51	ac
Total Pervious	0.20	28.43	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		2.73	ac-ft
Required Treatment (1/2" over Area)		2.37	ac-ft
		2.73	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	45.57	ac-ft
Proposed Runoff Volume	69.31	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**23.75**	**ac-ft**
Floodplain Compensation	**3.65**	**ac-ft**
TOTAL STORAGE	**27.40**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	6.0 ft	Assumed Control EL	47.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	676	ft
WTOP OF SLOPE	338	ft
Area	5.24	ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	859	ft
WSITE	453	ft
Area	8.94	ac

Pond **17-3** 0

	Contour	Area	Storage	Cumulative	Notes
GIS	47	196636	0.0	0.0	
GIS	54	248856	1559222.0	1559222.0	

Cumulative Ret (ac-ft) Below Freeboard

35.79

Pond Area

5.7

602527

13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 18-1

Date: 2/28/2024

Full **Typical Section Width**

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	32.15	ac
Pond Parcel Area	7.50	ac
Total Area	39.65	ac

Basin Limits

1768+00 to 1792+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	4.85	98							475.15	4.85
Grass	27.30	39							1064.76	27.30
Pond Site Pre Condition	7.50	39							292.50	7.50
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	39.65		0		0		0		1832.41	39.65
								WEIGHTED CN		46

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 8.1 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 11.6
$S = (1000/CN) - 10$

Estimated Runoff Volume = 26.77 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	32.15	ft^2
Pond Parcel Area	7.50	ft^2
Total Area	39.65	ft^2

Basin Limits

1768+00 to 1792+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	14.88	98							1457.85	14.88
Grass	17.27	39							673.68	17.27
Pond Site (Pervious)	3.00	39							117.00	3.00
Pond Site (Impervious)	4.50	100							450.00	4.50
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	39.65		0		0		0		2698.54	39.65
								WEIGHTED CN		68

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 12.3 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 4.7
$S = (1000/CN) - 10$

Estimated Runoff Volume = 40.76 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 18-1

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		32.15 ac
Weighted C		0.55
Total Impervious	0.95	14.88 ac
Total Pervious	0.20	17.27 ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N
Required Treatment (Runoff from 1" Rainfall)		1.47 ac-ft
Required Treatment (1/2" over Area)		1.34 ac-ft
		1.47 ac-ft

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	26.77 ac-ft
Proposed Runoff Volume	40.76 ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**13.99 ac-ft**
Floodplain Compensation	**2.97 ac-ft**
TOTAL STORAGE	**18.42 ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	5.0 ft	Assumed Control EL	50.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	606 ft
WTOP OF SLOPE	303 ft
Area	4.22 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	775 ft
WSITE	412 ft
Area	7.33 ac

Pond **18-1** 0

	Contour	Area	Storage	Cumulative	Notes
GIS	50	161710	0.0	0.0	
GIS	55	198174	899710.0	899710.0	

Cumulative Ret (ac-ft) Below Freeboard
20.65

Pond Area
4.5

602527
13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 18-2

Date: 2/28/2024

Full **Typical Section Width**

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	32.15	ac
Pond Parcel Area	7.50	ac
Total Area	39.65	ac

Basin Limits

1768+00 to 1792+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impvervious	4.85	98							475.15	4.85
Grass	27.30	39							1064.76	27.30
Pond Site Pre Condition	7.50	39							292.50	7.50
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	39.65		0		0		0		1832.41	39.65
								WEIGHTED CN		46

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 11.6
$S = (1000/CN) - 10$

Runoff Depth (Q) = 8.1 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 26.77 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	32.15	ft^2
Pond Parcel Area	7.50	ft^2
Total Area	39.65	ft^2

Basin Limits

1768+00 to 1792+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	14.88	98							1457.85	14.88
Grass	17.27	39							673.68	17.27
Pond Site (Pervious)	3.00	39							117.00	3.00
Pond Site (Impervious)	4.50	100							450.00	4.50
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	39.65		0		0		0		2698.54	39.65
								WEIGHTED CN		68

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 4.7
$S = (1000/CN) - 10$

Runoff Depth (Q) = 12.3 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 40.76 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 18-2

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		32.15	ac
Weighted C		0.55	
Total Impervious	0.95	14.88	ac
Total Pervious	0.20	17.27	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		1.47	ac-ft
Required Treatment (1/2" over Area)		1.34	ac-ft
		1.47	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	26.77	ac-ft
Proposed Runoff Volume	40.76	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**13.99**	**ac-ft**
Floodplain Compensation	**2.97**	**ac-ft**
TOTAL STORAGE	**18.42**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0	ft	Freeboard	1.0	ft
L/W Ratio	2.0		Side Slopes (1:H)	4.0	
Maximum Treatment Volume Depth	1.5	ft	Wet/Dry	Dry	
Maximum Pond Depth Below Freeboard	5.0	ft	Assumed Control EL	49.00	ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	606	ft
WTOP OF SLOPE	303	ft
Area	4.22	ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	775	ft
WSITE	412	ft
Area	7.33	ac

Pond **18-2** 0

	Contour	Area	Storage	Cumulative		Notes
GIS	49	170736	0.0	0.0	Soil 15	
GIS	54	204976	939280.0	939280.0		

Cumulative Ret (ac-ft) Below Freeboard
21.56

Pond Area
4.7

602527
13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 18-3 **Date:** 2/28/2024

Full **Typical Section Width**

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	32.15	ac
Pond Parcel Area	7.50	ac
Total Area	39.65	ac

Basin Limits

1768+00 to 1792+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	4.85	98							475.15	4.85
Grass	27.30	39							1064.76	27.30
Pond Site Pre Condition	7.50	39							292.50	7.50
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	39.65		0		0		0		1832.41	39.65
								WEIGHTED CN		46

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 8.1 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 11.6
$S = (1000/CN) - 10$

Estimated Runoff Volume = 26.77 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	32.15	ft^2
Pond Parcel Area	7.50	ft^2
Total Area	39.65	ft^2

Basin Limits

1768+00 to 1792+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	14.88	98							1457.85	14.88
Grass	17.27	39							673.68	17.27
Pond Site (Pervious)	3.00	39							117.00	3.00
Pond Site (Impervious)	4.50	100							450.00	4.50
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	39.65		0		0		0		2698.54	39.65
								WEIGHTED CN		68

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 12.3 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 4.7
$S = (1000/CN) - 10$

Estimated Runoff Volume = 40.76 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 18-3

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		32.15 ac
Weighted C		0.55
Total Impervious	0.95	14.88 ac
Total Pervious	0.20	17.27 ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N
Required Treatment (Runoff from 1" Rainfall)		1.47 ac-ft
Required Treatment (1/2" over Area)		1.34 ac-ft
		1.47 ac-ft

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	26.77 ac-ft
Proposed Runoff Volume	40.76 ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**13.99 ac-ft**
Floodplain Compensation	**2.97 ac-ft**
TOTAL STORAGE	**18.42 ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	5.0 ft	Assumed Control EL	51.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	606 ft
WTOP OF SLOPE	303 ft
Area	4.22 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	775 ft
WSITE	412 ft
Area	7.33 ac

Pond **18-3** 0

	Contour	Area	Storage	Cumulative	Notes
GIS	51	158496	0.0	0.0	Soil 15
GIS	56	194083	881447.5	881447.5	

Cumulative Ret (ac-ft) Below Freeboard
20.24

Pond Area
4.5

602527
13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 18-4 | Half **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	8.32	ac
Pond Parcel Area		ac
Total Area	8.32	ac

Basin Limits

1768+00 to 1792+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	2.42	98							237.58	2.42
Grass	5.90	39							229.93	5.90
Pond Site Pre Condition	0.00	39							0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	8.32		0		0		0		467.51	8.32
								WEIGHTED CN		56

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 7.8
S = (1000/CN) - 10

Runoff Depth (Q) = 10.2 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 7.05 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	8.32	ft^2
Pond Parcel Area	0.00	ft^2
Total Area	8.32	ft^2

Basin Limits

1768+00 to 1792+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
impervious	7.44	98							728.93	7.44
Grass	0.88	39							34.40	0.88
Pond Site (Pervious)	0.00	39							0.00	0.00
Pond Site (Impervious)	0.00	100							0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	8.32		0		0		0		763.32	8.32
								WEIGHTED CN		92

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 0.9
S = (1000/CN) - 10

Runoff Depth (Q) = 15.9 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 11.00 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 18-4

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		8.32	ac
Weighted C		0.87	
Total Impervious	0.95	7.44	ac
Total Pervious	0.20	0.88	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		0.60	ac-ft
Required Treatment (1/2" over Area)		0.35	ac-ft
		0.60	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	7.05	ac-ft
Proposed Runoff Volume	11.00	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**3.95**	**ac-ft**
Floodplain Compensation	**2.97**	**ac-ft**
TOTAL STORAGE	**6.92**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	5.0 ft	Assumed Control EL	51.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	382 ft
WTOP OF SLOPE	191 ft
Area	1.68 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	507 ft
WSITE	277 ft
Area	3.23 ac

Pond **18-4** 0

	Contour	Area	Storage	Cumulative	Notes				
GIS	48	229501	0.0	0.0					
GIS	49	254584	242042.5	242042.5					
GIS	50	276591	265587.5	507630.0					
GIS	51	302455	289523.0	797153.0					
GIS	52	335655	319055.0	1116208.0					
GIS	53	365881	350768.0	1466976.0					
GIS	54	417214	391547.5	1858523.5					
GIS	55	459731	438472.5	2296996.0			56.16		
GIS	56	1208075	833903.0	3130899.0			56	71.87555	
GIS	57	2441396	1824735.5	4955634.5			57	113.7657	41.89016
GIS	58	335655	1388525.5	6344160.0		x		78.81	
GIS	59	365881	350768.0	6694928.0					

Cumulative Ret (ac-ft) Below Freeboard

113.77

Pond Area

27.7	602527
56.0	13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 18-4

Date: 2/28/2024

Half **Typical Section Width**

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	23.83	ac
Pond Parcel Area		ac
Total Area	23.83	ac

Basin Limits

1768+00 to 1792+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impvervious	2.42	98							237.58	2.42
Grass	21.41	39							834.82	21.41
Pond Site Pre Condition	0.00	39							0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	23.83		0		0		0		1072.40	23.83
								WEIGHTED CN		45

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 7.8 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 12.2
$S = (1000/CN) - 10$

Estimated Runoff Volume = 15.56 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	23.83	ft^2
Pond Parcel Area	0.00	ft^2
Total Area	23.83	ft^2

Basin Limits

1768+00 to 1792+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	7.44	98							728.93	7.44
Grass	16.39	39							639.29	16.39
Pond Site (Pervious)	0.00	39							0.00	0.00
Pond Site (Impervious)	0.00	100							0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	23.83		0		0		0		1368.21	23.83
								WEIGHTED CN		57

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 10.4 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 7.4
$S = (1000/CN) - 10$

Estimated Runoff Volume = 20.67 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 18-4

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		23.83	ac
Weighted C		0.43	
Total Impervious	0.95	7.44	ac
Total Pervious	0.20	16.39	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		0.86	ac-ft
Required Treatment (1/2" over Area)		0.99	ac-ft
		0.99	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	15.56	ac-ft
Proposed Runoff Volume	20.67	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**5.11**	**ac-ft**
Floodplain Compensation	**0.00**	**ac-ft**
TOTAL STORAGE	**5.11**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	5.0 ft	Assumed Control EL	51.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	333 ft
WTOP OF SLOPE	166 ft
Area	1.27 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	447 ft
WSITE	248 ft
Area	2.54 ac

Pond **18-4** 0

	Contour	Area	Storage	Cumulative	Notes
GIS	48	229501	0.0	0.0	
GIS	49	254584	242042.5	242042.5	
GIS	50	276591	265587.5	507630.0	
GIS	51	302455	289523.0	797153.0	
GIS	52	335655	319055.0	1116208.0	
GIS	53	365881	350768.0	1466976.0	
GIS	54	417214	391547.5	1858523.5	
GIS	55	459731	438472.5	2296996.0	
GIS	56	1208075	833903.0	3130899.0	
GIS	57	2441396	1824735.5	4955634.5	
GIS	58	335655	1388525.5	6344160.0	
GIS	59	365881	350768.0	6694928.0	

56.16			
56	71.87555		
57	113.7657	41.89016	
x	78.81		

Cumulative Ret (ac-ft) Below Freeboard
113.77

Pond Area

27.7	602527
56.0	13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 19 | Full **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	25	ac
Pond Parcel Area	4.50	ac
Total Area	29.5	ac

Basin Limits

1792+00 to 1821+50

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impvervious	5.96	98							584.04	5.96
Grass	19.04	39							742.58	19.04
Pond Site Pre Condition	4.50	39							175.50	4.50
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	29.5		0		0		0		1502.12	29.5
								WEIGHTED CN		51

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 9.6
$S = (1000/CN) - 10$

Runoff Depth (Q) = 9.1 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 22.39 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	25	ac
Pond Parcel Area	4.50	ac
Total Area	29.5	ac

Basin Limits

1792+00 to 1821+50

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	18.29	98							1791.94	18.29
Grass	6.71	39							261.88	6.71
Pond Site (Pervious)	2.30	39							89.70	2.30
Pond Site (Impervious)	2.20	100							220.00	2.20
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	29.5		0		0		0		2363.52	29.5
								WEIGHTED CN		80

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 2.5
$S = (1000/CN) - 10$

Runoff Depth (Q) = 14.2 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 35.03 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 19

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		25.00	ac
Weighted C		0.75	
Total Impervious	0.95	18.29	ac
Total Pervious	0.20	6.71	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		1.56	ac-ft
Required Treatment (1/2" over Area)		1.04	ac-ft
		1.56	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	22.39	ac-ft
Proposed Runoff Volume	35.03	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**12.64**	**ac-ft**
TOTAL STORAGE	**12.64**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0	ft	Freeboard	1.0	ft
L/W Ratio	2.0		Side Slopes (1:H)	4.0	
Maximum Treatment Volume Depth	1.5	ft	Wet/Dry	Dry	
Maximum Pond Depth Below Freeboard	7.0	ft	Assumed Control EL		ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	441	ft
WTOP OF SLOPE	220	ft
Area	2.23	ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	577	ft
WSITE	312	ft
Area	4.14	ac

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 20-1 | Full | **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	9.3	ac
Pond Parcel Area	2.40	ac
Total Area	11.7	ac

Basin Limits

1821+50 to 1835+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN		
Impervious	2.73	98							267.27	2.73
Grass	6.57	39							256.34	6.57
Pond Site Pre Condition	2.40	39							93.60	2.40
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	11.7		0		0		0		617.21	11.7
								WEIGHTED CN		53

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 9.0
S = (1000/CN) - 10

Runoff Depth (Q) = 9.5 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 9.25 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	9.3	ac
Pond Parcel Area	2.40	ac
Total Area	11.7	ac

Basin Limits

1821+50 to 1835+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN		
Impervious	8.37	98							820.04	8.37
Grass	0.93	39							36.36	0.93
Pond Site (Pervious)	1.25	39							48.75	1.25
Pond Site (Impervious)	1.15	100							115.00	1.15
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	11.7		0		0		0		1020.15	11.7
								WEIGHTED CN		87

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 1.5
S = (1000/CN) - 10

Runoff Depth (Q) = 15.3 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 14.88 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 20-1

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		9.30	ac
Weighted C		0.87	
Total Impervious	0.95	8.37	ac
Total Pervious	0.20	0.93	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		0.68	ac-ft
Required Treatment (1/2" over Area)		0.39	ac-ft
		0.68	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	9.25	ac-ft
Proposed Runoff Volume	14.88	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**5.63**	**ac-ft**
Floodplain Compensation	**0.00**	**ac-ft**
TOTAL STORAGE	**5.63**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0	ft	Freeboard	1.0	ft
L/W Ratio	2.0		Side Slopes (1:H)	4.0	
Maximum Treatment Volume Depth	1.5	ft	Wet/Dry	Dry	
Maximum Pond Depth Below Freeboard	7.0	ft	Assumed Control EL	79.00	ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	306	ft
WTOP OF SLOPE	153	ft
Area	1.08	ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	415	ft
WSITE	232	ft
Area	2.21	ac

Pond **20-1** 0

	Contour	Area	Storage	Cumulative		Notes
GIS	79	37417	0.0	0.0	Soil 15	
GIS	86	61930	347714.5	347714.5		

Cumulative Ret (ac-ft) Below Freeboard

7.98

Pond Area

1.4 602527

13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 20-2 | Full **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	9.3	ac
Pond Parcel Area	2.40	ac
Total Area	11.7	ac

Basin Limits

1821+50 to 1835+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN		
Impvervious	2.73	98							267.27	2.73
Grass	6.57	39							256.34	6.57
Pond Site Pre Condition	2.40	39							93.60	2.40
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	11.7		0		0		0		617.21	11.7
								WEIGHTED CN		53

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 9.5 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 9.0
$S = (1000/CN) - 10$

Estimated Runoff Volume = 9.25 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	9.3	ac
Pond Parcel Area	2.40	ac
Total Area	11.7	ac

Basin Limits

1821+50 to 1835+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN		
Impervious	8.37	98							820.04	8.37
Grass	0.93	39							36.36	0.93
Pond Site (Pervious)	1.25	39							48.75	1.25
Pond Site (Impervious)	1.15	100							115.00	1.15
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	11.7		0		0		0		1020.15	11.7
								WEIGHTED CN		87

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 15.3 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 1.5
$S = (1000/CN) - 10$

Estimated Runoff Volume = 14.88 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 20-2

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		9.30	ac
Weighted C		0.87	
Total Impervious	0.95	8.37	ac
Total Pervious	0.20	0.93	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		0.68	ac-ft
Required Treatment (1/2" over Area)		0.39	ac-ft
		0.68	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	9.25	ac-ft
Proposed Runoff Volume	14.88	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**5.63**	**ac-ft**
Floodplain Compensation	**0.00**	**ac-ft**
TOTAL STORAGE	**6.30**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	7.0 ft	Assumed Control EL	79.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	322 ft
WTOP OF SLOPE	161 ft
Area	1.19 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	434 ft
WSITE	241 ft
Area	2.40 ac

Pond **20-2** 0

	Contour	Area	Storage	Cumulative		Notes
GIS	78	29937	0.0	0.0	Soil 15	
GIS	85	52494	288508.5	288508.5		

Cumulative Ret (ac-ft) Below Freeboard
6.62

Pond Area
1.2

602527
13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 20-3 | Full **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	9.3	ac
Pond Parcel Area	2.40	ac
Total Area	11.7	ac

Basin Limits

1821+50 to 1835+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	2.73	98							267.27	2.73
Grass	6.57	39							256.34	6.57
Pond Site Pre Condition	2.40	39							93.60	2.40
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	11.7		0		0		0		617.21	11.7
								WEIGHTED CN		53

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 9.0
S = (1000/CN) - 10

Runoff Depth (Q) = 9.5 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 9.25 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	9.3	ac
Pond Parcel Area	2.40	ac
Total Area	11.7	ac

Basin Limits

1821+50 to 1835+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	8.37	98							820.04	8.37
Grass	0.93	39							36.36	0.93
Pond Site (Pervious)	1.25	39							48.75	1.25
Pond Site (Impervious)	1.15	100							115.00	1.15
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	11.7		0		0		0		1020.15	11.7
								WEIGHTED CN		87

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 1.5
S = (1000/CN) - 10

Runoff Depth (Q) = 15.3 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 14.88 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 20-3

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		9.30	ac
Weighted C		0.87	
Total Impervious	0.95	8.37	ac
Total Pervious	0.20	0.93	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		0.68	ac-ft
Required Treatment (1/2" over Area)		0.39	ac-ft
		0.68	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	9.25	ac-ft
Proposed Runoff Volume	14.88	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**5.63**	**ac-ft**
Floodplain Compensation	**0.00**	**ac-ft**
TOTAL STORAGE	**6.30**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	7.0 ft	Assumed Control EL	79.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	322	ft
WTOP OF SLOPE	161	ft
Area	1.19	ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	434	ft
WSITE	241	ft
Area	2.40	ac

Pond **20-3** 0

	Contour	Area	Storage	Cumulative		Notes
GIS	79	32981	0.0	0.0	Soil 15	
GIS	86	60609	327565.0	327565.0		

Cumulative Ret (ac-ft) Below Freeboard
7.52

Pond Area
1.4

602527
13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 21-1

Date: 2/28/2024

Full **Typical Section Width**

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	23.42	ac
Pond Parcel Area	4.80	ac
Total Area	28.22	ac

Basin Limits

1835+00 to 1857+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impvervious	4.44	98							435.56	4.44
Grass	18.98	39							740.05	18.98
Pond Site Pre Condition	4.80	39							187.20	4.80
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	28.22		0		0		0		1362.80	28.22
								WEIGHTED CN		48

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 8.6 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 10.7
$S = (1000/CN) - 10$

Estimated Runoff Volume = 20.11 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	23.42	ac
Pond Parcel Area	4.80	ac
Total Area	28.22	ac

Basin Limits

1835+00 to 1857+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	13.64	98							1336.36	13.64
Grass	9.78	39							381.56	9.78
Pond Site (Pervious)	2.60	39							101.40	2.60
Pond Site (Impervious)	2.20	100							220.00	2.20
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	28.22		0		0		0		2039.33	28.22
								WEIGHTED CN		72

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 13.0 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 3.8
$S = (1000/CN) - 10$

Estimated Runoff Volume = 30.65 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 21-1

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		23.42	ac
Weighted C		0.64	
Total Impervious	0.95	13.64	ac
Total Pervious	0.20	9.78	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		1.24	ac-ft
Required Treatment (1/2" over Area)		0.98	ac-ft
		1.24	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	20.11	ac-ft
Proposed Runoff Volume	30.65	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**10.53**	**ac-ft**
Floodplain Compensation	**1.13**	**ac-ft**
TOTAL STORAGE	**12.91**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0	ft	Freeboard	1.0	ft
L/W Ratio	2.0		Side Slopes (1:H)	4.0	
Maximum Treatment Volume Depth	1.5	ft	Wet/Dry	Dry	
Maximum Pond Depth Below Freeboard	7.0	ft	Assumed Control EL		ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	445	ft
WTOP OF SLOPE	222	ft
Area	2.27	ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	582	ft
WSITE	315	ft
Area	4.21	ac

Pond **21-1** 0

	Contour	Area	Storage	Cumulative		Notes
GIS	79	87757	0.0	0.0	Soil 15	
GIS	86	127503	753410.0	753410.0		

Cumulative Ret (ac-ft) Below Freeboard
17.30

Pond Area
2.9

602527
13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 21-2 | Full | **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	23.42	ac
Pond Parcel Area	4.80	ac
Total Area	28.22	ac

Basin Limits

1835+00 to 1857+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	4.44	98							435.56	4.44
Grass	18.98	39							740.05	18.98
Pond Site Pre Condition	4.80	39							187.20	4.80
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	28.22		0		0		0		1362.80	28.22
								WEIGHTED CN		48

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 10.7
S = (1000/CN) - 10

Runoff Depth (Q) = 8.6 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 20.11 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	23.42	ac
Pond Parcel Area	4.80	ac
Total Area	28.22	ac

Basin Limits

1835+00 to 1857+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	13.64	98							1336.36	13.64
Grass	9.78	39							381.56	9.78
Pond Site (Pervious)	2.60	39							101.40	2.60
Pond Site (Impervious)	2.20	100							220.00	2.20
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	28.22		0		0		0		2039.33	28.22
								WEIGHTED CN		72

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 3.8
S = (1000/CN) - 10

Runoff Depth (Q) = 13.0 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 30.65 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 21-2

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		23.42	ac
Weighted C		0.64	
Total Impervious	0.95	13.64	ac
Total Pervious	0.20	9.78	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		1.24	ac-ft
Required Treatment (1/2" over Area)		0.98	ac-ft
		1.24	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	20.11	ac-ft
Proposed Runoff Volume	30.65	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**10.53**	**ac-ft**
Floodplain Compensation	**1.13**	**ac-ft**
TOTAL STORAGE	**12.91**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	7.0 ft	Assumed Control EL	79.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	445 ft
WTOP OF SLOPE	222 ft
Area	2.27 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	582 ft
WSITE	315 ft
Area	4.21 ac

Pond **21-2** 0

	Contour	Area	Storage	Cumulative		Notes
GIS	79	83686	0.0	0.0	Soil 15	
GIS	86	122350	721126.0	721126.0		

Cumulative Ret (ac-ft) Below Freeboard

16.55

Pond Area

2.8

602527

13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 21-3

Date: 2/28/2024

Full **Typical Section Width**

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	23.42	ac
Pond Parcel Area	4.80	ac
Total Area	28.22	ac

Basin Limits

1835+00 to 1857+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	4.44	98							435.56	4.44
Grass	18.98	39							740.05	18.98
Pond Site Pre Condition	4.80	39							187.20	4.80
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	28.22		0		0		0		1362.80	28.22
								WEIGHTED CN		48

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 8.6 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 10.7
$S = (1000/CN) - 10$

Estimated Runoff Volume = 20.11 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	23.42	ac
Pond Parcel Area	4.80	ac
Total Area	28.22	ac

Basin Limits

1835+00 to 1857+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	13.64	98							1336.36	13.64
Grass	9.78	39							381.56	9.78
Pond Site (Pervious)	2.60	39							101.40	2.60
Pond Site (Impervious)	2.20	100							220.00	2.20
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	28.22		0		0		0		2039.33	28.22
								WEIGHTED CN		72

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 13.0 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 3.8
$S = (1000/CN) - 10$

Estimated Runoff Volume = 30.65 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 21-3

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		23.42	ac
Weighted C		0.64	
Total Impervious	0.95	13.64	ac
Total Pervious	0.20	9.78	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		1.24	ac-ft
Required Treatment (1/2" over Area)		0.98	ac-ft
		1.24	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	20.11	ac-ft
Proposed Runoff Volume	30.65	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**10.53**	**ac-ft**
Floodplain Compensation	**1.13**	**ac-ft**
TOTAL STORAGE	**12.91**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	7.0 ft	Assumed Control EL	79.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	445 ft
WTOP OF SLOPE	222 ft
Area	2.27 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	582 ft
WSITE	315 ft
Area	4.21 ac

Pond **21-3** 0

	Contour	Area	Storage	Cumulative		Notes
GIS	79	104843	0.0	0.0	Soil 15	
GIS	86	142894	867079.5	867079.5		

Cumulative Ret (ac-ft) Below Freeboard
19.91

Pond Area
3.3

602527
13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 22-1 | Full | **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	14.14	ac
Pond Parcel Area	5.95	ac
Total Area	20.09	ac

Basin Limits

1857+00 to 1889+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN		
Impvervious	6.46	98							633.54	6.46
Grass	7.68	39							299.34	7.68
Pond Site Pre Condition	5.95	39							232.05	5.95
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	20.09		0		0		0		1164.92	20.09
								WEIGHTED CN		58

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 7.2
S = (1000/CN) - 10

Runoff Depth (Q) = 10.5 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 17.61 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	14.14	ft^2
Pond Parcel Area	5.95	ft^2
Total Area	20.09	ft^2

Basin Limits

1857+00 to 1889+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN		
Impervious	12.73	98							1247.54	12.73
Grass	1.41	39							54.99	1.41
Pond Site (Pervious)	2.00	39							78.00	2.00
Pond Site (Impervious)	3.95	100							395.00	3.95
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	20.09		0		0		0		1775.53	20.09
								WEIGHTED CN		88

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 1.3
S = (1000/CN) - 10

Runoff Depth (Q) = 15.4 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 25.81 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 22-1

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		14.14	ac
Weighted C		0.88	
Total Impervious	0.95	12.73	ac
Total Pervious	0.20	1.41	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		1.03	ac-ft
Required Treatment (1/2" over Area)		0.59	ac-ft
		1.03	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	17.61	ac-ft
Proposed Runoff Volume	25.81	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**8.20**	**ac-ft**
Floodplain Compensation	**0.48**	**ac-ft**
TOTAL STORAGE	**9.71**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	6.0 ft	Assumed Control EL	82.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	415	ft
WTOP OF SLOPE	208	ft
Area	1.98	ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	546	ft
WSITE	297	ft
Area	3.73	ac

Pond **22-1** 0

	Contour	Area	Storage	Cumulative		Notes
GIS	82	71393	0.0	0.0	Soil 15	
GIS	88	99212	511815.0	511815.0		
GIS	92	110150	418724.0	930539.0		

Cumulative Ret (ac-ft) Below Freeboard

21.36

Pond Area

2.5

602527

13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 22-2 | Full | **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	14.14	ac
Pond Parcel Area	5.80	ac
Total Area	19.94	ac

Basin Limits

1857+00 to 1889+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN		
Impervious	6.46	98							633.54	6.46
Grass	7.68	39							299.34	7.68
Pond Site Pre Condition	5.80	39							226.20	5.80
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	19.94		0		0		0		1159.07	19.94
								WEIGHTED CN		58

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 7.2
S = (1000/CN) - 10

Runoff Depth (Q) = 10.5 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 17.52 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	14.14	ft²
Pond Parcel Area	5.80	ft²
Total Area	19.94	ft²

Basin Limits

1857+00 to 1889+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN		
Impervious	12.73	98							1247.54	12.73
Grass	1.41	39							54.99	1.41
Pond Site (Pervious)	2.00	39							78.00	2.00
Pond Site (Impervious)	3.80	100							380.00	3.80
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	19.94		0		0		0		1760.53	19.94
								WEIGHTED CN		88

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 1.3
S = (1000/CN) - 10

Runoff Depth (Q) = 15.4 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 25.60 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 22-2

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		14.14	ac
Weighted C		0.88	
Total Impervious	0.95	12.73	ac
Total Pervious	0.20	1.41	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		1.03	ac-ft
Required Treatment (1/2" over Area)		0.59	ac-ft
		1.03	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	17.52	ac-ft
Proposed Runoff Volume	25.60	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**8.08**	**ac-ft**
Floodplain Compensation	**0.48**	**ac-ft**
TOTAL STORAGE	**9.59**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0	ft	Freeboard	1.0	ft
L/W Ratio	2.0		Side Slopes (1:H)	4.0	
Maximum Treatment Volume Depth	1.5	ft	Wet/Dry	Dry	
Maximum Pond Depth Below Freeboard	6.0	ft	Assumed Control EL	81.00	ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	413	ft
WTOP OF SLOPE	206	ft
Area	1.96	ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	543	ft
WSITE	296	ft
Area	3.69	ac

Pond **22-2** 0

	Contour	Area	Storage	Cumulative	Notes
GIS	81	66081	0.0	0.0	Soil 15
GIS	86	92942	397557.5	397557.5	
GIS	90	110150	406184.0	803741.5	

Cumulative Ret (ac-ft) Below Freeboard

18.45

Pond Area

2.5

602527

13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 22-3 | Full **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	14.14	ac
Pond Parcel Area	5.55	ac
Total Area	19.69	ac

Basin Limits

1857+00 to 1889+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impvervious	6.46	98							633.54	6.46
Grass	7.68	39							299.34	7.68
Pond Site Pre Condition	5.55	39							216.45	5.55
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	19.69		0		0		0		1149.32	19.69
								WEIGHTED CN		58

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 7.1
$S = (1000/CN) - 10$

Runoff Depth (Q) = 10.6 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 17.38 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	14.14	ft^2
Pond Parcel Area	5.55	ft^2
Total Area	19.69	ft^2

Basin Limits

1857+00 to 1889+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	12.73	98							1247.54	12.73
Grass	1.41	39							54.99	1.41
Pond Site (Pervious)	2.00	39							78.00	2.00
Pond Site (Impervious)	3.55	100							355.00	3.55
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	19.69		0		0		0		1735.53	19.69
								WEIGHTED CN		88

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 1.3
$S = (1000/CN) - 10$

Runoff Depth (Q) = 15.4 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 25.25 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 22-3

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		14.14	ac
Weighted C		0.88	
Total Impervious	0.95	12.73	ac
Total Pervious	0.20	1.41	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		1.03	ac-ft
Required Treatment (1/2" over Area)		0.59	ac-ft
		1.03	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	17.38	ac-ft
Proposed Runoff Volume	25.25	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**7.87**	**ac-ft**
Floodplain Compensation	**0.48**	**ac-ft**
TOTAL STORAGE	**9.38**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	6.0 ft	Assumed Control EL	80.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	409 ft
WTOP OF SLOPE	204 ft
Area	1.92 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	538 ft
WSITE	293 ft
Area	3.62 ac

Pond **22-3** 0

	Contour	Area	Storage	Cumulative		Notes
GIS	77	61940	0.0	0.0	Soil 15	
GIS	82	88543	376207.5	376207.5		
GIS	86	113220	403526.0	779733.5		

Cumulative Ret (ac-ft) Below Freeboard

17.90

Pond Area

2.6

602527

13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 23-1 | Full **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	13.81	ac
Pond Parcel Area	5.18	ac
Total Area	18.99	ac

Basin Limits

1889+00 to 1905+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN		
Impervious	3.23	98							316.77	3.23
Grass	10.58	39							412.53	10.58
Pond Site Pre Condition	5.18	39							202.02	5.18
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	18.99		0		0		0		931.32	18.99
								WEIGHTED CN		49

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 8.7 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 10.4
$S = (1000/CN) - 10$

Estimated Runoff Volume = 13.79 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	13.81	ft²
Pond Parcel Area	5.18	ft²
Total Area	18.99	ft²

Basin Limits

1889+00 to 1905+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN		
Impervious	9.92	98							971.90	9.92
Grass	3.89	39							151.81	3.89
Pond Site (Pervious)	2.00	39							78.00	2.00
Pond Site (Impervious)	3.18	100							318.00	3.18
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	18.99		0		0		0		1519.71	18.99
								WEIGHTED CN		80

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 14.2 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 2.5
$S = (1000/CN) - 10$

Estimated Runoff Volume = 22.53 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 23-1

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		13.81	ac
Weighted C		0.74	
Total Impervious	0.95	9.92	ac
Total Pervious	0.20	3.89	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		0.85	ac-ft
Required Treatment (1/2" over Area)		0.58	ac-ft
		0.85	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	13.79	ac-ft
Proposed Runoff Volume	22.53	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**8.74**	**ac-ft**
TOTAL STORAGE	**9.59**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0	ft	Freeboard	1.0	ft
L/W Ratio	2.0		Side Slopes (1:H)	4.0	
Maximum Treatment Volume Depth	1.5	ft	Wet/Dry	Dry	
Maximum Pond Depth Below Freeboard	6.0	ft	Assumed Control EL		ft

Soil type #13 used for pond depth; refer to WSS data

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	413	ft
WTOP OF SLOPE	206	ft
Area	1.96	ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	543	ft
WSITE	296	ft
Area	3.69	ac

Pond 23-1

	Contour	Area	Storage	Cumulative	Notes
GIS	75	61940	0.0	0.0	Soil 15
GIS	80	88543	376207.5	376207.5	
GIS	83	134520	334594.5	710802.0	

Cumulative Ret (ac-ft) Below Freeboard

16.32

Pond Area

3.1

602527

13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 23-2 | Full **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	13.81	ac
Pond Parcel Area	3.76	ac
Total Area	17.57	ac

Basin Limits 1889+00 to 1905+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN		
Impervious	3.23	98							316.77	3.23
Grass	10.58	39							412.53	10.58
Pond Site Pre Condition	3.76	39							146.64	3.76
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	17.57		0		0		0		875.94	17.57
								WEIGHTED CN		50

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 10.1
S = (1000/CN) - 10

Runoff Depth (Q) = 8.9 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 13.01 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	13.81	ft²
Pond Parcel Area	3.76	ft²
Total Area	17.57	ft²

Basin Limits 1889+00 to 1905+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN		
Impervious	9.92	98							971.90	9.92
Grass	3.89	39							151.81	3.89
Pond Site (Pervious)	1.50	39							58.50	1.50
Pond Site (Impervious)	2.26	100							226.00	2.26
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	17.57		0		0		0		1408.21	17.57
								WEIGHTED CN		80

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 2.5
S = (1000/CN) - 10

Runoff Depth (Q) = 14.3 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 20.87 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 23-2

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		13.81 ac
Weighted C		0.74
Total Impervious	0.95	9.92 ac
Total Pervious	0.20	3.89 ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N
Required Treatment (Runoff from 1" Rainfall)		0.85 ac-ft
Required Treatment (1/2" over Area)		0.58 ac-ft
		0.85 ac-ft

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	13.01 ac-ft
Proposed Runoff Volume	20.87 ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**7.86 ac-ft**
TOTAL STORAGE	**8.71 ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	6.0 ft	Assumed Control EL	ft

Soil type #13 used for pond depth; refer to WSS data

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	395 ft
WTOP OF SLOPE	197 ft
Area	1.79 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	522 ft
WSITE	285 ft
Area	3.41 ac

Pond 23-2

	Contour	Area	Storage	Cumulative	Notes
GIS	76	45120	0.0	0.0	Soil 15
GIS	80	71340	232920.0	232920.0	
GIS	83	116750	282135.0	515055.0	

Cumulative Ret (ac-ft) Below Freeboard

11.82

Pond Area

2.7 602527

13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 23-3

Date: 2/28/2024

Full **Typical Section Width**

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	13.81	ac
Pond Parcel Area	4.08	ac
Total Area	17.89	ac

Basin Limits

1889+00 to 1905+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impvervious	3.23	98							316.77	3.23
Grass	10.58	39							412.53	10.58
Pond Site Pre Condition	4.08	39							159.12	4.08
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	17.89		0		0		0		888.42	17.89
								WEIGHTED CN		50

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 10.1
S = (1000/CN) - 10

Runoff Depth (Q) = 8.8 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 13.19 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	13.81	ft^2
Pond Parcel Area	4.08	ft^2
Total Area	17.89	ft^2

Basin Limits

1889+00 to 1905+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	9.92	98							971.90	9.92
Grass	3.89	39							151.81	3.89
Pond Site (Pervious)	1.80	39							70.20	1.80
Pond Site (Impervious)	2.28	100							228.00	2.28
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	17.89		0		0		0		1421.91	17.89
								WEIGHTED CN		79

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 2.6
S = (1000/CN) - 10

Runoff Depth (Q) = 14.2 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 21.10 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 23-3

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		13.81	ac
Weighted C		0.74	
Total Impervious	0.95	9.92	ac
Total Pervious	0.20	3.89	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		0.85	ac-ft
Required Treatment (1/2" over Area)		0.58	ac-ft
		0.85	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	13.19	ac-ft
Proposed Runoff Volume	21.10	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**7.91**	**ac-ft**
TOTAL STORAGE	**8.76**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0	ft	Freeboard	1.0	ft
L/W Ratio	2.0		Side Slopes (1:H)	4.0	
Maximum Treatment Volume Depth	1.5	ft	Wet/Dry	Dry	
Maximum Pond Depth Below Freeboard	6.0	ft	Assumed Control EL		ft

Soil type #13 used for pond depth; refer to WSS data

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	396	ft
WTOP OF SLOPE	198	ft
Area	1.80	ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	523	ft
WSITE	286	ft
Area	3.43	ac

Pond 23-3

	Contour	Area	Storage	Cumulative	Notes
GIS	78	55125	0.0	0.0	Soil 15
GIS	82	78340	266930.0	266930.0	
GIS	86	111450	379580.0	646510.0	

Cumulative Ret (ac-ft) Below Freeboard

14.84

Pond Area

2.6

602527

13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 24-1 | Full | **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	14	ac
Pond Parcel Area	6.63	ac
Total Area	20.63	ac

Basin Limits

1905+00 to 1925+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN		
Impervious	4.04	98							395.96	4.04
Grass	9.96	39							388.42	9.96
Pond Site Pre Condition	6.63	39							258.57	6.63
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	20.63		0		0		0		1042.95	20.63
								WEIGHTED CN		51

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 9.8
S = (1000/CN) - 10

Runoff Depth (Q) = 9.0 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 15.53 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	14	ac
Pond Parcel Area	6.63	ac
Total Area	20.63	ac

Basin Limits

1905+00 to 1925+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN		
Impervious	12.40	98							1214.88	12.40
Grass	1.60	39							62.53	1.60
Pond Site (Pervious)	5.13	39							200.07	5.13
Pond Site (Impervious)	1.50	100							150.00	1.50
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	20.63		0		0		0		1627.47	20.63
								WEIGHTED CN		79

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 2.7
S = (1000/CN) - 10

Runoff Depth (Q) = 14.1 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 24.18 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 24-1

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		14.00	ac
Weighted C		0.86	
Total Impervious	0.95	12.40	ac
Total Pervious	0.20	1.60	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		1.01	ac-ft
Required Treatment (1/2" over Area)		0.58	ac-ft
		1.01	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	15.53 ac-ft
Proposed Runoff Volume	24.18 ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**8.65 ac-ft**
TOTAL STORAGE	**9.66 ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	4.0 ft	Assumed Control EL	ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	492 ft
WTOP OF SLOPE	246 ft
Area	2.78 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	638 ft
WSITE	343 ft
Area	5.03 ac

Pond 24-1

	Contour	Area	Storage	Cumulative	Notes
GIS	76	42250	0.0	0.0	Soil 15
GIS	81	86515	321912.5	321912.5	
GIS	86	118450	512412.5	834325.0	

Cumulative Ret (ac-ft) Below Freeboard

19.15

Pond Area

2.7 602527

13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 24-2

Date: 2/28/2024

Full **Typical Section Width**

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	14	ac
Pond Parcel Area	4.24	ac
Total Area	18.24	ac

Basin Limits

1905+00 to 1925+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impvervious	4.04	98							395.96	4.04
Grass	9.96	39							388.42	9.96
Pond Site Pre Condition	4.24	39							165.36	4.24
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	18.24		0		0		0		949.74	18.24
								WEIGHTED CN		52

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 9.3 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 9.2
$S = (1000/CN) - 10$

Estimated Runoff Volume = 14.21 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	14	ac
Pond Parcel Area	4.24	ac
Total Area	18.24	ac

Basin Limits

1905+00 to 1925+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	12.40	98							1214.88	12.40
Grass	1.60	39							62.53	1.60
Pond Site (Pervious)	0.85	39							33.15	0.85
Pond Site (Impervious)	3.39	100							339.00	3.39
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	18.24		0		0		0		1649.55	18.24
								WEIGHTED CN		90

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 15.7 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 1.1
$S = (1000/CN) - 10$

Estimated Runoff Volume = 23.85 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 24-2

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		14.00	ac
Weighted C		0.86	
Total Impervious	0.95	12.40	ac
Total Pervious	0.20	1.60	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		1.01	ac-ft
Required Treatment (1/2" over Area)		0.58	ac-ft
		1.01	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	14.21	ac-ft
Proposed Runoff Volume	23.85	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**9.65**	**ac-ft**
TOTAL STORAGE	**10.66**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0	ft	Freeboard	1.0	ft
L/W Ratio	2.0		Side Slopes (1:H)	4.0	
Maximum Treatment Volume Depth	1.5	ft	Wet/Dry	Dry	
Maximum Pond Depth Below Freeboard	4.0	ft	Assumed Control EL		ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	516	ft
WTOP OF SLOPE	258	ft
Area	3.05	ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	667	ft
WSITE	357	ft
Area	5.47	ac

Pond 24-2

	Contour	Area	Storage	Cumulative	Notes
GIS	78	44125	0.0	0.0	Soil 15
GIS	81	77515	182460.0	182460.0	
GIS	85	109105	373240.0	555700.0	

Cumulative Ret (ac-ft) Below Freeboard

12.76

Pond Area

2.5

602527

13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 24-3 | Full **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	14	ac
Pond Parcel Area	4.93	ac
Total Area	18.93	ac

Basin Limits

1905+00 to 1925+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN		
Impervious	4.04	98							395.96	4.04
Grass	9.96	39							388.42	9.96
Pond Site Pre Condition	4.93	39							192.27	4.93
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	18.93		0		0		0		976.65	18.93
								WEIGHTED CN		52

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 9.4
S = (1000/CN) - 10

Runoff Depth (Q) = 9.2 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 14.59 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	14	ac
Pond Parcel Area	4.93	ac
Total Area	18.93	ac

Basin Limits

1905+00 to 1925+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN		
Impervious	12.40	98							1214.88	12.40
Grass	1.60	39							62.53	1.60
Pond Site (Pervious)	3.43	39							133.77	3.43
Pond Site (Impervious)	1.50	100							150.00	1.50
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	18.93		0		0		0		1561.17	18.93
								WEIGHTED CN		82

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 2.1
S = (1000/CN) - 10

Runoff Depth (Q) = 14.6 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 23.02 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 24-3

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		14.00	ac
Weighted C		0.86	
Total Impervious	0.95	12.40	ac
Total Pervious	0.20	1.60	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		1.01	ac-ft
Required Treatment (1/2" over Area)		0.58	ac-ft
		1.01	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	14.59	ac-ft
Proposed Runoff Volume	23.02	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**8.43**	**ac-ft**
TOTAL STORAGE	**9.44**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	4.0 ft	Assumed Control EL	ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	487 ft
WTOP OF SLOPE	243 ft
Area	2.72 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	632 ft
WSITE	340 ft
Area	4.93 ac

Pond 24-3

	Contour	Area	Storage	Cumulative	Notes
GIS	79	65125	0.0	0.0	Soil 15
GIS	84	92250	393437.5	393437.5	
GIS	87	123450	323550.0	716987.5	

Cumulative Ret (ac-ft) Below Freeboard

16.46

Pond Area

2.8	602527
	13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 25-1/26-1 | Full | **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	26.66	ac
Pond Parcel Area	5.74	ac
Total Area	32.4	ac

Basin Limits

1925+00 to 1963+60

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impvervious	7.80	98							764.20	7.80
Grass	18.86	39							735.62	18.86
Pond Site Pre Condition	5.74	39							223.86	5.74
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	32.4		0		0		0		1723.68	32.4
								WEIGHTED CN		53

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 9.6 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 8.8
$S = (1000/CN) - 10$

Estimated Runoff Volume = 25.86 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	26.66	ac
Pond Parcel Area	5.74	ac
Total Area	32.4	ac

Basin Limits

1925+00 to 1963+60

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	23.93	98							2344.71	23.93
Grass	2.73	39							106.64	2.73
Pond Site (Pervious)	1.24	39							48.36	1.24
Pond Site (Impervious)	4.50	100							450.00	4.50
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	32.4		0		0		0		2949.71	32.4
								WEIGHTED CN		91

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 15.8 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 1.0
$S = (1000/CN) - 10$

Estimated Runoff Volume = 42.59 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 25-1/26-1

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		26.66	ac
Weighted C		0.87	
Total Impervious	0.95	23.93	ac
Total Pervious	0.20	2.73	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		1.94	ac-ft
Required Treatment (1/2" over Area)		1.11	ac-ft
		1.94	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	25.86	ac-ft
Proposed Runoff Volume	42.59	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**16.73**	**ac-ft**
Floodplain Compensation	**1.79**	**ac-ft**
TOTAL STORAGE	**18.52**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0	ft	Freeboard	1.0	ft
L/W Ratio	2.0		Side Slopes (1:H)	4.0	
Maximum Treatment Volume Depth	1.5	ft	Wet/Dry	Dry	
Maximum Pond Depth Below Freeboard	7.0	ft	Assumed Control EL	77.00	ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	526	ft
WTOP OF SLOPE	263	ft
Area	3.18	ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	679	ft
WSITE	364	ft
Area	5.67	ac

Pond 25-1/26-1 0

	Contour	Area	Storage	Cumulative	Notes
GIS	71	96311	0.0	0.0	Soil 15
GIS	76	136316	581567.5	581567.5	
GIS	80	151225	575082.0	1156649.5	

Cumulative Ret (ac-ft) Below Freeboard

26.55

Pond Area

3.5

602527

13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 25-1 | Full **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	10.92	ac
Pond Parcel Area	3.50	ac
Total Area	14.42	ac

Basin Limits

1925+00 to 1940+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	3.03	98							296.97	3.03
Grass	7.89	39							307.70	7.89
Pond Site Pre Condition	3.50	39							136.50	3.50
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	14.42		0		0		0		741.17	14.42
								WEIGHTED CN		51

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 9.5
$S = (1000/CN) - 10$

Runoff Depth (Q) = 9.2 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 11.06 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	10.92	ac
Pond Parcel Area	3.50	ac
Total Area	14.42	ac

Basin Limits

1925+00 to 1940+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	9.30	98							911.16	9.30
Grass	1.62	39							63.28	1.62
Pond Site (Pervious)	1.50	39							58.50	1.50
Pond Site (Impervious)	2.00	100							200.00	2.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	14.42		0		0		0		1232.93	14.42
								WEIGHTED CN		86

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 1.7
$S = (1000/CN) - 10$

Runoff Depth (Q) = 15.0 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 18.05 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 25-1

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		10.92 ac
Weighted C		0.84
Total Impervious	0.95	9.30 ac
Total Pervious	0.20	1.62 ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N
Required Treatment (Runoff from 1" Rainfall)		0.76 ac-ft
Required Treatment (1/2" over Area)		0.46 ac-ft
		0.76 ac-ft

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	11.06 ac-ft
Proposed Runoff Volume	18.05 ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**6.99 ac-ft**
Floodplain Compensation	**1.79 ac-ft**
TOTAL STORAGE	**9.54 ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	7.0 ft	Assumed Control EL	75.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	388 ft
WTOP OF SLOPE	194 ft
Area	1.72 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	513 ft
WSITE	281 ft
Area	3.31 ac

Pond **25-1** 0

	Contour	Area	Storage	Cumulative		Notes
GIS	75	48851	0.0	0.0	Soil 15	
GIS	82	75286	434479.5	434479.5		

Cumulative Ret (ac-ft) Below Freeboard
9.97

Pond Area
1.7

602527
13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 25-2 | Full | **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	10.92	ac
Pond Parcel Area	3.50	ac
Total Area	14.42	ac

Basin Limits

1925+00 to 1940+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	3.03	98							296.97	3.03
Grass	7.89	39							307.70	7.89
Pond Site Pre Condition	3.50	39							136.50	3.50
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	14.42		0		0		0		741.17	14.42
								WEIGHTED CN		51

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 9.2 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 9.5
$S = (1000/CN) - 10$

Estimated Runoff Volume = 11.06 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	10.92	ac
Pond Parcel Area	3.50	ac
Total Area	14.42	ac

Basin Limits

1925+00 to 1940+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	9.30	98							911.16	9.30
Grass	1.62	39							63.28	1.62
Pond Site (Pervious)	1.50	39							58.50	1.50
Pond Site (Impervious)	2.00	100							200.00	2.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	14.42		0		0		0		1232.93	14.42
								WEIGHTED CN		86

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 15.0 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 1.7
$S = (1000/CN) - 10$

Estimated Runoff Volume = 18.05 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 25-2

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		10.92	ac
Weighted C		0.84	
Total Impervious	0.95	9.30	ac
Total Pervious	0.20	1.62	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		0.76	ac-ft
Required Treatment (1/2" over Area)		0.46	ac-ft
		0.76	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	11.06	ac-ft
Proposed Runoff Volume	18.05	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**6.99**	**ac-ft**
Floodplain Compensation	**1.79**	**ac-ft**
TOTAL STORAGE	**9.54**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0	ft	Freeboard	1.0	ft
L/W Ratio	2.0		Side Slopes (1:H)	4.0	
Maximum Treatment Volume Depth	1.5	ft	Wet/Dry	Dry	
Maximum Pond Depth Below Freeboard	7.0	ft	Assumed Control EL	77.00	ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	388	ft
WTOP OF SLOPE	194	ft
Area	1.72	ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	513	ft
WSITE	281	ft
Area	3.31	ac

Pond **25-2** 0

	Contour	Area	Storage	Cumulative		Notes
GIS	77	49711	0.0	0.0	Soil 15	
GIS	84	77128	443936.5	443936.5		

Cumulative Ret (ac-ft) Below Freeboard
10.19

Pond Area
1.8

602527
13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 25-3 | Full **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	10.92	ac
Pond Parcel Area	3.50	ac
Total Area	14.42	ac

Basin Limits

1925+00 to 1940+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN		
Impvervious	3.03	98							296.97	3.03
Grass	7.89	39							307.70	7.89
Pond Site Pre Condition	3.50	39							136.50	3.50
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	14.42		0		0		0		741.17	14.42
								WEIGHTED CN		51

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 9.5
S = (1000/CN) - 10

Runoff Depth (Q) = 9.2 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 11.06 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	10.92	ac
Pond Parcel Area	3.50	ac
Total Area	14.42	ac

Basin Limits

1925+00 to 1940+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN		
Impervious	9.30	98							911.16	9.30
Grass	1.62	39							63.28	1.62
Pond Site (Pervious)	1.50	39							58.50	1.50
Pond Site (Impervious)	2.00	100							200.00	2.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	14.42		0		0		0		1232.93	14.42
								WEIGHTED CN		86

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 1.7
S = (1000/CN) - 10

Runoff Depth (Q) = 15.0 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 18.05 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 25-3

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		10.92 ac
Weighted C		0.84
Total Impervious	0.95	9.30 ac
Total Pervious	0.20	1.62 ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N
Required Treatment (Runoff from 1" Rainfall)		0.76 ac-ft
Required Treatment (1/2" over Area)		0.46 ac-ft
		0.76 ac-ft

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	11.06 ac-ft
Proposed Runoff Volume	18.05 ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**6.99 ac-ft**
Floodplain Compensation	**1.79 ac-ft**
TOTAL STORAGE	**9.54 ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	7.0 ft	Assumed Control EL	77.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	388 ft
WTOP OF SLOPE	194 ft
Area	1.72 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	513 ft
WSITE	281 ft
Area	3.31 ac

Pond **25-3** 0

	Contour	Area	Storage	Cumulative		Notes
GIS	75	47572	0.0	0.0	Soil 15	
GIS	82	77535	437874.5	437874.5		

Cumulative Ret (ac-ft) Below Freeboard
10.05

Pond Area
1.8

602527
13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 25-1/26-1 | Full | **Typical Section Width**

Date: 5/25/2023

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	26.66	ac
Pond Parcel Area	7.50	ac
Total Area	34.16	ac

Basin Limits

1101+00 to 1139+70

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	7.82	98							766.18	7.82
Grass	18.84	39							734.83	18.84
Pond Site Pre Condition	7.50	39							292.50	7.50
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	34.16		0		0		0		1793.51	34.16
								WEIGHTED CN		53

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 9.4 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 9.0
$S = (1000/CN) - 10$

Estimated Runoff Volume = 26.86 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	26.66	ac
Pond Parcel Area	7.50	ac
Total Area	34.16	ac

Basin Limits

1101+00 to 1139+70

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	23.99	98							2350.79	23.99
Grass	2.67	39							104.22	2.67
Pond Site (Pervious)	3.00	39							117.00	3.00
Pond Site (Impervious)	4.50	100							450.00	4.50
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	34.16		0		0		0		3022.01	34.16
								WEIGHTED CN		88

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 15.4 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 1.3
$S = (1000/CN) - 10$

Estimated Runoff Volume = 43.92 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 25-1/26-1

Date: 5/25/2023

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		26.66	ac
Weighted C		0.87	
Total Impervious	0.95	23.99	ac
Total Pervious	0.20	2.67	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		1.94	ac-ft
Required Treatment (1/2" over Area)		1.11	ac-ft
		1.94	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	26.86	ac-ft
Proposed Runoff Volume	43.92	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**17.07**	**ac-ft**
Floodplain Compensation	**1.79**	**ac-ft**
TOTAL STORAGE	**18.86**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0	ft	Freeboard	1.0	ft
L/W Ratio	2.0		Side Slopes (1:H)	4.0	
Maximum Treatment Volume Depth	1.5	ft	Wet/Dry	Dry	
Maximum Pond Depth Below Freeboard	7.0	ft	Assumed Control EL	77.00	ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	530	ft
WTOP OF SLOPE	265	ft
Area	3.23	ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	684	ft
WSITE	366	ft
Area	5.75	ac

Pond 25-1/26-1 0

	Contour	Area	Storage	Cumulative		Notes
GIS	69	96311	0.0	0.0	Soil 15	
GIS	76	136316	814194.5	814194.5		

Cumulative Ret (ac-ft) Below Freeboard
18.69

Pond Area
3.1

602527
13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 26-2 | Full **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	15.74	ac
Pond Parcel Area	4.50	ac
Total Area	20.24	ac

Basin Limits

1940+80 to 1963+60

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	4.61	98							451.39	4.61
Grass	11.13	39							434.22	11.13
Pond Site Pre Condition	4.50	39							175.50	4.50
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	20.24		0		0		0		1061.12	20.24
									WEIGHTED CN	52

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 9.1
S = (1000/CN) - 10

Runoff Depth (Q) = 9.4 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 15.89 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	15.74	ac
Pond Parcel Area	4.50	ac
Total Area	20.24	ac

Basin Limits

1940+80 to 1963+60

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	14.13	98							1384.96	14.13
Grass	1.61	39							62.70	1.61
Pond Site (Pervious)	2.00	39							78.00	2.00
Pond Site (Impervious)	2.50	100							250.00	2.50
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	20.24		0		0		0		1775.66	20.24
									WEIGHTED CN	88

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 1.4
S = (1000/CN) - 10

Runoff Depth (Q) = 15.3 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 25.86 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 26-2

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		15.74	ac
Weighted C		0.87	
Total Impervious	0.95	14.13	ac
Total Pervious	0.20	1.61	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		1.15	ac-ft
Required Treatment (1/2" over Area)		0.66	ac-ft
		1.15	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	15.89	ac-ft
Proposed Runoff Volume	25.86	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**9.97**	**ac-ft**
Floodplain Compensation	**0.00**	**ac-ft**
TOTAL STORAGE	**9.97**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0	ft	Freeboard	1.0	ft
L/W Ratio	2.0		Side Slopes (1:H)	4.0	
Maximum Treatment Volume Depth	1.5	ft	Wet/Dry	Dry	
Maximum Pond Depth Below Freeboard	5.0	ft	Assumed Control EL	79.00	ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	453	ft
WTOP OF SLOPE	227	ft
Area	2.36	ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	592	ft
WSITE	320	ft
Area	4.35	ac

Pond **26-2** 0

	Contour	Area	Storage	Cumulative		Notes
GIS	69	96311	0.0	0.0	Soil 15	
GIS	76	136316	814194.5	814194.5		

Cumulative Ret (ac-ft) Below Freeboard
18.69

Pond Area
3.1

602527
13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 26-3 | Full **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	15.74	ac
Pond Parcel Area	4.50	ac
Total Area	20.24	ac

Basin Limits

1940+80 to 1963+60

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impvervious	4.61	98							451.39	4.61
Grass	11.13	39							434.22	11.13
Pond Site Pre Condition	4.50	39							175.50	4.50
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	20.24		0		0		0		1061.12	20.24
								WEIGHTED CN		52

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 9.1
S = (1000/CN) - 10

Runoff Depth (Q) = 9.4 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 15.89 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	15.74	ac
Pond Parcel Area	4.50	ac
Total Area	20.24	ac

Basin Limits

1940+80 to 1963+60

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	14.13	98							1384.96	14.13
Grass	1.61	39							62.70	1.61
Pond Site (Pervious)	2.00	39							78.00	2.00
Pond Site (Impervious)	2.50	100							250.00	2.50
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	20.24		0		0		0		1775.66	20.24
								WEIGHTED CN		88

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 1.4
S = (1000/CN) - 10

Runoff Depth (Q) = 15.3 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 25.86 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 26-3

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		15.74	ac
Weighted C		0.87	
Total Impervious	0.95	14.13	ac
Total Pervious	0.20	1.61	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		1.15	ac-ft
Required Treatment (1/2" over Area)		0.66	ac-ft
		1.15	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	15.89	ac-ft
Proposed Runoff Volume	25.86	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**9.97**	**ac-ft**
Floodplain Compensation	**0.00**	**ac-ft**
TOTAL STORAGE	**9.97**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0	ft	Freeboard	1.0	ft
L/W Ratio	2.0		Side Slopes (1:H)	4.0	
Maximum Treatment Volume Depth	1.5	ft	Wet/Dry	Dry	
Maximum Pond Depth Below Freeboard	5.0	ft	Assumed Control EL	79.00	ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	453	ft
WTOP OF SLOPE	227	ft
Area	2.36	ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	592	ft
WSITE	320	ft
Area	4.35	ac

Pond **26-3** 0

	Contour	Area	Storage	Cumulative		Notes
GIS	69	96311	0.0	0.0	Soil 15	
GIS	76	136316	814194.5	814194.5		

Cumulative Ret (ac-ft) Below Freeboard
18.69

Pond Area
3.1

602527
13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 27-1 | Full **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	13.88	ac
Pond Parcel Area	8.21	ac
Total Area	22.09	ac

Basin Limits

1963+60 to 1993+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	5.94	98							582.06	5.94
Grass	7.94	39							309.68	7.94
Pond Site Pre Condition	8.21	39							320.19	8.21
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	22.09		0		0		0		1211.93	22.09
								WEIGHTED CN		55

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 8.2
S = (1000/CN) - 10

Runoff Depth (Q) = 9.9 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 18.24 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	13.88	ac
Pond Parcel Area	8.21	ac
Total Area	22.09	ac

Basin Limits

1963+60 to 1993+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	12.55	98							1229.90	12.55
Grass	1.33	39							51.87	1.33
Pond Site (Pervious)	4.21	39							164.19	4.21
Pond Site (Impervious)	4.00	100							400.00	4.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	22.09		0		0		0		1845.96	22.09
								WEIGHTED CN		84

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 2.0
S = (1000/CN) - 10

Runoff Depth (Q) = 14.7 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 27.15 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 27-1

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		13.88 ac
Weighted C		0.88
Total Impervious	0.95	12.55 ac
Total Pervious	0.20	1.33 ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N
Required Treatment (Runoff from 1" Rainfall)		1.02 ac-ft
Required Treatment (1/2" over Area)		0.58 ac-ft
		1.02 ac-ft

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	18.24 ac-ft
Proposed Runoff Volume	27.15 ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**8.91 ac-ft**
Floodplain Compensation	**1.71 ac-ft**
TOTAL STORAGE	**10.62 ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	4.0 ft	Assumed Control EL	66.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	515 ft
WTOP OF SLOPE	257 ft
Area	3.04 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	666 ft
WSITE	357 ft
Area	5.45 ac

Pond 27-1

	Contour	Area	Storage	Cumulative	Notes
GIS	70	42150	0.0	0.0	Soil 15
GIS	75	87650	324500.0	324500.0	
GIS	78	132450	330150.0	654650.0	

Cumulative Ret (ac-ft) Below Freeboard

15.03

Pond Area

3.0 602527

13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 27-2
Date: 2/28/2024

Full **Typical Section Width**

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	13.88	ac
Pond Parcel Area	10.62	ac
Total Area	24.5	ac

Basin Limits

1963+60 to 1993+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	5.94	98							582.06	5.94
Grass	7.94	39							309.68	7.94
Pond Site Pre Condition	10.62	39							414.18	10.62
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	24.5		0		0		0		1305.92	24.5
								WEIGHTED CN		53

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 9.6 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 8.8
$S = (1000/CN) - 10$

Estimated Runoff Volume = 19.59 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	13.88	ac
Pond Parcel Area	10.62	ac
Total Area	24.5	ac

Basin Limits

1963+60 to 1993+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	12.55	98							1229.90	12.55
Grass	1.33	39							51.87	1.33
Pond Site (Pervious)	6.62	39							258.18	6.62
Pond Site (Impervious)	4.00	100							400.00	4.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	24.5		0		0		0		1939.95	24.5
								WEIGHTED CN		79

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 14.1 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 2.6
$S = (1000/CN) - 10$

Estimated Runoff Volume = 28.81 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 27-2

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		13.88	ac
Weighted C		0.88	
Total Impervious	0.95	12.55	ac
Total Pervious	0.20	1.33	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		1.02	ac-ft
Required Treatment (1/2" over Area)		0.58	ac-ft
		1.02	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	19.59	ac-ft
Proposed Runoff Volume	28.81	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**9.21**	**ac-ft**
Floodplain Compensation	**1.71**	**ac-ft**
TOTAL STORAGE	**10.92**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0	ft	Freeboard	1.0	ft
L/W Ratio	2.0		Side Slopes (1:H)	4.0	
Maximum Treatment Volume Depth	1.5	ft	Wet/Dry	Dry	
Maximum Pond Depth Below Freeboard	4.0	ft	Assumed Control EL	66.00	ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	522	ft
WTOP OF SLOPE	261	ft
Area	3.12	ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	674	ft
WSITE	361	ft
Area	5.59	ac

Pond 27-2

	Contour	Area	Storage	Cumulative	Notes
GIS	73	64520	0.0	0.0	Soil 15
GIS	78	93250	394425.0	394425.0	
GIS	81	151230	366720.0	761145.0	

Cumulative Ret (ac-ft) Below Freeboard

17.47

Pond Area

3.5

602527

13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 27-3 | Full **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	13.88	ac
Pond Parcel Area	8.46	ac
Total Area	22.34	ac

Basin Limits

1963+60 to 1993+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	5.94	98							582.06	5.94
Grass	7.94	39							309.68	7.94
Pond Site Pre Condition	8.46	39							329.94	8.46
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	22.34		0		0		0		1221.68	22.34
									WEIGHTED CN	55

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 8.3
S = (1000/CN) - 10

Runoff Depth (Q) = 9.9 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 18.38 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	13.88	ac
Pond Parcel Area	8.46	ac
Total Area	22.34	ac

Basin Limits

1963+60 to 1993+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	12.55	98							1229.90	12.55
Grass	1.33	39							51.87	1.33
Pond Site (Pervious)	4.46	39							173.94	4.46
Pond Site (Impervious)	4.00	100							400.00	4.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	22.34		0		0		0		1855.71	22.34
									WEIGHTED CN	83

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 2.0
S = (1000/CN) - 10

Runoff Depth (Q) = 14.7 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 27.33 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 27-3

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		13.88 ac
Weighted C		0.88
Total Impervious	0.95	12.55 ac
Total Pervious	0.20	1.33 ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N
Required Treatment (Runoff from 1" Rainfall)		1.02 ac-ft
Required Treatment (1/2" over Area)		0.58 ac-ft
		1.02 ac-ft

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	18.38 ac-ft
Proposed Runoff Volume	27.33 ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**8.94 ac-ft**
Floodplain Compensation	**1.71 ac-ft**
TOTAL STORAGE	**10.65 ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	4.0 ft	Assumed Control EL	67.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	516 ft
WTOP OF SLOPE	258 ft
Area	3.05 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	667 ft
WSITE	357 ft
Area	5.47 ac

Pond 27-3

	Contour	Area	Storage	Cumulative	Notes
GIS	66	44350	0.0	0.0	Soil 15
GIS	70	91245	271190.0	271190.0	
GIS	72	116650	207895.0	479085.0	

Cumulative Ret (ac-ft) Below Freeboard

11.00

Pond Area

2.7 602527

13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 28-1 | Full | **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	16.08	ac
Pond Parcel Area	10.63	ac
Total Area	26.71	ac

Basin Limits

1993+00 to 2016+20

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	4.69	98							459.31	4.69
Grass	11.39	39							444.33	11.39
Pond Site Pre Condition	10.63	39							414.57	10.63
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	26.71		0		0		0		1318.22	26.71
								WEIGHTED CN		49

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 8.8 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 10.3
$S = (1000/CN) - 10$

Estimated Runoff Volume = 19.54 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	16.08	ft^2
Pond Parcel Area	10.63	ft^2
Total Area	26.71	ft^2

Basin Limits

1993+00 to 2016+20

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	14.38	98							1409.26	14.38
Grass	1.70	39							66.29	1.70
Pond Site (Pervious)	3.63	39							141.57	3.63
Pond Site (Impervious)	7.00	100							700.00	7.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	26.71		0		0		0		2317.12	26.71
								WEIGHTED CN		87

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 15.2 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 1.5
$S = (1000/CN) - 10$

Estimated Runoff Volume = 33.82 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 28-1

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		16.08 ac
Weighted C		0.87
Total Impervious	0.95	14.38 ac
Total Pervious	0.20	1.70 ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N
Required Treatment (Runoff from 1" Rainfall)		1.17 ac-ft
Required Treatment (1/2" over Area)		0.67 ac-ft
		1.17 ac-ft

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	19.54 ac-ft
Proposed Runoff Volume	33.82 ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**14.28 ac-ft**
Floodplain Compensation	**2.23 ac-ft**
TOTAL STORAGE	**16.51 ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	4.0 ft	Assumed Control EL	70.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	636 ft
WTOP OF SLOPE	318 ft
Area	4.64 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	811 ft
WSITE	430 ft
Area	8.00 ac

Pond 28-1

	Contour	Area	Storage	Cumulative	Notes
GIS	75	42350	0.0	0.0	Soil 15
GIS	79	86750	258200.0	258200.0	
GIS	83	118750	411000.0	669200.0	

Cumulative Ret (ac-ft) Below Freeboard

15.36

Pond Area

2.7

602527

13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 28-2 | Full **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	16.08	ac
Pond Parcel Area	9.91	ac
Total Area	25.99	ac

Basin Limits

1993+00 to 2016+20

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	4.69	98							459.31	4.69
Grass	11.39	39							444.33	11.39
Pond Site Pre Condition	9.91	39							386.49	9.91
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	25.99		0		0		0		1290.14	25.99
								WEIGHTED CN		50

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 10.1
S = (1000/CN) - 10

Runoff Depth (Q) = 8.8 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 19.15 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	16.08	ft^2
Pond Parcel Area	9.91	ft^2
Total Area	25.99	ft^2

Basin Limits

1993+00 to 2016+20

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	14.38	98							1409.26	14.38
Grass	1.70	39							66.29	1.70
Pond Site (Pervious)	3.01	39							117.39	3.01
Pond Site (Impervious)	6.90	100							690.00	6.90
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	25.99		0		0		0		2282.94	25.99
								WEIGHTED CN		88

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 1.4
S = (1000/CN) - 10

Runoff Depth (Q) = 15.3 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 33.23 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 28-2

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		16.08	ac
Weighted C		0.87	
Total Impervious	0.95	14.38	ac
Total Pervious	0.20	1.70	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		1.17	ac-ft
Required Treatment (1/2" over Area)		0.67	ac-ft
		1.17	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	19.15	ac-ft
Proposed Runoff Volume	33.23	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**14.09**	**ac-ft**
Floodplain Compensation	**2.23**	**ac-ft**
TOTAL STORAGE	**16.32**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	4.0 ft	Assumed Control EL	70.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	632 ft
WTOP OF SLOPE	316 ft
Area	4.59 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	807 ft
WSITE	427 ft
Area	7.92 ac

Pond 28-2

	Contour	Area	Storage	Cumulative	Notes
GIS	68	73340	0.0	0.0	Soil 15
GIS	72	107650	361980.0	361980.0	
GIS	75	126640	351435.0	713415.0	

Cumulative Ret (ac-ft) Below Freeboard

16.38

Pond Area

2.9	602527
	13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 28-3 | Full **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	16.08	ac
Pond Parcel Area	9.35	ac
Total Area	25.43	ac

Basin Limits

1993+00 to 2016+20

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	4.69	98							459.31	4.69
Grass	11.39	39							444.33	11.39
Pond Site Pre Condition	9.35	39							364.65	9.35
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	25.43		0		0		0		1268.30	25.43
								WEIGHTED CN		50

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 10.1
S = (1000/CN) - 10

Runoff Depth (Q) = 8.9 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 18.84 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	16.08	ft^2
Pond Parcel Area	9.35	ft^2
Total Area	25.43	ft^2

Basin Limits

1993+00 to 2016+20

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	14.38	98							1409.26	14.38
Grass	1.70	39							66.29	1.70
Pond Site (Pervious)	2.50	39							97.50	2.50
Pond Site (Impervious)	6.85	100							685.00	6.85
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	25.43		0		0		0		2258.05	25.43
								WEIGHTED CN		89

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 1.3
S = (1000/CN) - 10

Runoff Depth (Q) = 15.5 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 32.79 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 28-3

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		16.08	ac
Weighted C		0.87	
Total Impervious	0.95	14.38	ac
Total Pervious	0.20	1.70	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		1.17	ac-ft
Required Treatment (1/2" over Area)		0.67	ac-ft
		1.17	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	18.84	ac-ft
Proposed Runoff Volume	32.79	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**13.95**	**ac-ft**
Floodplain Compensation	**2.23**	**ac-ft**
TOTAL STORAGE	**16.18**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0	ft	Freeboard	1.0	ft
L/W Ratio	2.0		Side Slopes (1:H)	4.0	
Maximum Treatment Volume Depth	1.5	ft	Wet/Dry	Dry	
Maximum Pond Depth Below Freeboard	4.0	ft	Assumed Control EL	70.00	ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	630	ft
WTOP OF SLOPE	315	ft
Area	4.55	ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	804	ft
WSITE	426	ft
Area	7.86	ac

Pond 28-3

	Contour	Area	Storage	Cumulative	Notes
GIS	68	66550	0.0	0.0	Soil 15
GIS	72	98760	330620.0	330620.0	
GIS	76	115660	428840.0	759460.0	

Cumulative Ret (ac-ft) Below Freeboard

17.43

Pond Area

2.7

602527

13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 29-1 | Full **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	18.36	ac
Pond Parcel Area	6.13	ac
Total Area	24.49	ac

Basin Limits

2016+20 to 2043+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	5.41	98							530.59	5.41
Grass	12.95	39							504.89	12.95
Pond Site Pre Condition	6.13	39							239.07	6.13
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	24.49		0		0		0		1274.54	24.49
								WEIGHTED CN		52

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 9.2
$S = (1000/CN) - 10$

Runoff Depth (Q) = 9.3 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 19.06 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	18.36	ac
Pond Parcel Area	6.13	ac
Total Area	24.49	ac

Basin Limits

2016+20 to 2043+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	16.61	98							1627.93	16.61
Grass	1.75	39							68.19	1.75
Pond Site (Pervious)	1.88	39							73.32	1.88
Pond Site (Impervious)	4.25	100							425.00	4.25
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	24.49		0		0		0		2194.44	24.49
								WEIGHTED CN		90

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 1.2
$S = (1000/CN) - 10$

Runoff Depth (Q) = 15.6 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 31.80 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 29-1

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		18.36	ac
Weighted C		0.88	
Total Impervious	0.95	16.61	ac
Total Pervious	0.20	1.75	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		1.34	ac-ft
Required Treatment (1/2" over Area)		0.77	ac-ft
		1.34	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	19.06 ac-ft
Proposed Runoff Volume	31.80 ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**12.74 ac-ft**
Floodplain Compensation	**2.15 ac-ft**
TOTAL STORAGE	**14.89 ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	6.0 ft	Assumed Control EL	80.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	506 ft
WTOP OF SLOPE	253 ft
Area	2.94 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	656 ft
WSITE	352 ft
Area	5.30 ac

Pond 29-1

	Contour	Area	Storage	Cumulative	Notes
GIS	73	55650	0.0	0.0	Soil 15
GIS	76	92350	222000.0	222000.0	
GIS	80	124340	433380.0	655380.0	

Cumulative Ret (ac-ft) Below Freeboard

15.05

Pond Area

2.9 602527

13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 29-2 | Full **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	18.36	ac
Pond Parcel Area	6.74	ac
Total Area	25.1	ac

Basin Limits

2016+20 to 2043+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impvervious	5.41	98							530.59	5.41
Grass	12.95	39							504.89	12.95
Pond Site Pre Condition	6.74	39							262.86	6.74
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	25.1		0		0		0		1298.33	25.1
								WEIGHTED CN		52

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 9.3 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 9.3
$S = (1000/CN) - 10$

Estimated Runoff Volume = 19.40 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	18.36	ac
Pond Parcel Area	6.74	ac
Total Area	25.1	ac

Basin Limits

2016+20 to 2043+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	16.61	98							1627.93	16.61
Grass	1.75	39							68.19	1.75
Pond Site (Pervious)	2.24	39							87.36	2.24
Pond Site (Impervious)	4.50	100							450.00	4.50
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	25.1		0		0		0		2233.48	25.1
								WEIGHTED CN		89

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 15.5 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 1.2
$S = (1000/CN) - 10$

Estimated Runoff Volume = 32.42 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 29-2

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		18.36	ac
Weighted C		0.88	
Total Impervious	0.95	16.61	ac
Total Pervious	0.20	1.75	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		1.34	ac-ft
Required Treatment (1/2" over Area)		0.77	ac-ft
		1.34	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	19.40	ac-ft
Proposed Runoff Volume	32.42	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**13.02**	**ac-ft**
Floodplain Compensation	**2.15**	**ac-ft**
TOTAL STORAGE	**15.17**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	6.0 ft	Assumed Control EL	80.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	511 ft
WTOP OF SLOPE	255 ft
Area	3.00 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	661 ft
WSITE	355 ft
Area	5.38 ac

Pond 29-2

	Contour	Area	Storage	Cumulative	Notes
GIS	85	62450	0.0	0.0	Soil 15
GIS	90	104450	417250.0	417250.0	
GIS	93	118980	335145.0	752395.0	

Cumulative Ret (ac-ft) Below Freeboard

17.27

Pond Area

2.7

602527

13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 29-3 | Full **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	18.36	ac
Pond Parcel Area	6.65	ac
Total Area	25.01	ac

Basin Limits

2016+20 to 2043+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN		
Impvervious	5.41	98							530.59	5.41
Grass	12.95	39							504.89	12.95
Pond Site Pre Condition	6.65	39							259.35	6.65
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	25.01		0		0		0		1294.82	25.01
									WEIGHTED CN	52

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 9.3
S = (1000/CN) - 10

Runoff Depth (Q) = 9.3 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 19.35 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	18.36	ac
Pond Parcel Area	6.65	ac
Total Area	25.01	ac

Basin Limits

2016+20 to 2043+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN		
Impervious	16.61	98							1627.93	16.61
Grass	1.75	39							68.19	1.75
Pond Site (Pervious)	1.75	39							68.25	1.75
Pond Site (Impervious)	4.90	100							490.00	4.90
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	25.01		0		0		0		2254.37	25.01
									WEIGHTED CN	90

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 1.1
S = (1000/CN) - 10

Runoff Depth (Q) = 15.7 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 32.63 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 29-3

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		18.36	ac
Weighted C		0.88	
Total Impervious	0.95	16.61	ac
Total Pervious	0.20	1.75	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		1.34	ac-ft
Required Treatment (1/2" over Area)		0.77	ac-ft
		1.34	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	19.35 ac-ft
Proposed Runoff Volume	32.63 ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**13.28 ac-ft**
Floodplain Compensation	**2.15 ac-ft**
TOTAL STORAGE	**15.43 ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	6.0 ft	Assumed Control EL	80.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	515 ft
WTOP OF SLOPE	257 ft
Area	3.04 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	666 ft
WSITE	357 ft
Area	5.46 ac

Pond 29-3

	Contour	Area	Storage	Cumulative	Notes
GIS	68	42250	0.0	0.0	Soil 15
GIS	73	85670	319800.0	319800.0	
GIS	77	113200	397740.0	717540.0	

Cumulative Ret (ac-ft) Below Freeboard

16.47

Pond Area

2.6 602527

13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Basin Name: Basin 30-1A
Date: 2/28/2024

Half **Typical Section Width**

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	20.55	ac
Pond Parcel Area	6.77	ac
Total Area	27.32	ac

Basin Limits

2043+00 to 2091+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	4.85	98							475.15	4.85
Grass	15.70	39							612.36	15.70
Pond Site Pre Condition	6.77	39							264.03	6.77
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	27.32		0		0		0		1351.54	27.32
								WEIGHTED CN		49

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 8.8 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 10.2
$S = (1000/CN) - 10$

Estimated Runoff Volume = 20.04 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	20.55	ac
Pond Parcel Area	6.77	ac
Total Area	27.32	ac

Basin Limits

2043+00 to 2091+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	14.88	98							1457.85	14.88
Grass	5.67	39							221.28	5.67
Pond Site (Pervious)	2.27	39							88.53	2.27
Pond Site (Impervious)	4.50	100							450.00	4.50
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	27.32		0		0		0		2217.67	27.32
								WEIGHTED CN		81

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 14.4 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 2.3
$S = (1000/CN) - 10$

Estimated Runoff Volume = 32.79 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Basin Name: Basin 30-1A

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		20.55	ac
Weighted C		0.74	
Total Impervious	0.95	14.88	ac
Total Pervious	0.20	5.67	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		1.27	ac-ft
Required Treatment (1/2" over Area)		0.86	ac-ft
		1.27	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	20.04	ac-ft
Proposed Runoff Volume	32.79	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**12.75**	**ac-ft**

TOTAL STORAGE	**14.02**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0	ft	Freeboard	1.0	ft
L/W Ratio	2.0		Side Slopes (1:H)	4.0	
Maximum Treatment Volume Depth	1.5	ft	Wet/Dry	Dry	
Maximum Pond Depth Below Freeboard	7.0	ft	Assumed Control EL		ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	462	ft
WTOP OF SLOPE	231	ft
Area	2.45	ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	603	ft
WSITE	325	ft
Area	4.50	ac

Pond 30-1B

	Contour	Area	Storage	Cumulative	Notes
GIS	71	46230	0.0	0.0	Soil 15
GIS	76	86440	331675.0	331675.0	
GIS	79	104760	286800.0	618475.0	

Cumulative Ret (ac-ft) Below Freeboard

14.20

Pond Area

2.4

602527

13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Basin Name: Basin 30-1B Half **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	12.51	ac
Pond Parcel Area	4.87	ac
Total Area	17.38	ac

Basin Limits

2043+00 to 2091+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impvervious	4.85	98							475.15	4.85
Grass	7.66	39							298.80	7.66
Pond Site Pre Condition	4.87	39							189.93	4.87
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	17.38		0		0		0		963.88	17.38
									WEIGHTED CN	55

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 8.0
$S = (1000/CN) - 10$

Runoff Depth (Q) = 10.0 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 14.52 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	12.51	ac
Pond Parcel Area	4.87	ac
Total Area	17.38	ac

Basin Limits

2043+00 to 2091+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	11.25	98							1102.50	11.25
Grass	1.26	39							49.14	1.26
Pond Site (Pervious)	1.42	39							55.38	1.42
Pond Site (Impervious)	3.45	100							345.00	3.45
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	17.38		0		0		0		1552.02	17.38
									WEIGHTED CN	89

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 1.2
$S = (1000/CN) - 10$

Runoff Depth (Q) = 15.5 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 22.51 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Basin Name: Basin 30-1B

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		12.51	ac
Weighted C		0.87	
Total Impervious	0.95	11.25	ac
Total Pervious	0.20	1.26	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		0.91	ac-ft
Required Treatment (1/2" over Area)		0.52	ac-ft
		0.91	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	14.52	ac-ft
Proposed Runoff Volume	22.51	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**7.99**	**ac-ft**
TOTAL STORAGE	**8.90**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	7.0 ft	Assumed Control EL	ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	376 ft
WTOP OF SLOPE	188 ft
Area	1.62 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	499 ft
WSITE	273 ft
Area	3.13 ac

Pond 30-1B

	Contour	Area	Storage	Cumulative	Notes
GIS	68	31200	0.0	0.0	Soil 15
GIS	73	52330	208825.0	208825.0	
GIS	76	71990	186480.0	395305.0	

Cumulative Ret (ac-ft) Below Freeboard

9.07

Pond Area

1.7	602527
	13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 30-2 | Full **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	33.06	ac
Pond Parcel Area	5.00	ac
Total Area	38.06	ac

Basin Limits

2043+00 to 2091+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impvervious	9.70	98							950.30	9.70
Grass	23.36	39							911.16	23.36
Pond Site Pre Condition	5.00	39							195.00	5.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	38.06		0		0		0		2056.46	38.06
								WEIGHTED CN		54

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 8.5
$S = (1000/CN) - 10$

Runoff Depth (Q) = 9.7 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 30.91 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	33.06	ac
Pond Parcel Area	5.00	ac
Total Area	38.06	ac

Basin Limits

2043+00 to 2091+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	29.75	98							2915.70	29.75
Grass	3.31	39							129.01	3.31
Pond Site (Pervious)	1.30	39							50.70	1.30
Pond Site (Impervious)	3.70	100							370.00	3.70
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	38.06		0		0		0		3465.41	38.06
								WEIGHTED CN		91

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 1.0
$S = (1000/CN) - 10$

Runoff Depth (Q) = 15.8 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 50.03 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 30-2

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		33.06	ac
Weighted C		0.87	
Total Impervious	0.95	29.75	ac
Total Pervious	0.20	3.31	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		2.41	ac-ft
Required Treatment (1/2" over Area)		1.38	ac-ft
		2.41	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	30.91	ac-ft
Proposed Runoff Volume	50.03	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**19.13**	**ac-ft**
Floodplain Compensation	**5.19**	**ac-ft**
TOTAL STORAGE	**21.54**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0	ft	Freeboard	1.0	ft
L/W Ratio	2.0		Side Slopes (1:H)	4.0	
Maximum Treatment Volume Depth	1.5	ft	Wet/Dry	Dry	
Maximum Pond Depth Below Freeboard	4.0	ft	Assumed Control EL		ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	723	ft
WTOP OF SLOPE	361	ft
Area	6.00	ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	916	ft
WSITE	482	ft
Area	10.13	ac

Pond 30-2

	Contour	Area	Storage	Cumulative	Notes
GIS	69	56230	0.0	0.0	Soil 15
GIS	74	111890	420300.0	420300.0	
GIS	78	149340	522460.0	942760.0	

Cumulative Ret (ac-ft) Below Freeboard

21.64

Pond Area

3.4 602527

13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 30-3 | Full **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	33.06	ac
Pond Parcel Area	10.34	ac
Total Area	43.4	ac

Basin Limits

2043+00 to 2091+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	9.70	98							950.30	9.70
Grass	23.36	39							911.16	23.36
Pond Site Pre Condition	10.34	39							403.26	10.34
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	43.4		0		0		0		2264.72	43.4
								WEIGHTED CN		52

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 9.2
$S = (1000/CN) - 10$

Runoff Depth (Q) = 9.4 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 33.89 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	33.06	ac
Pond Parcel Area	10.34	ac
Total Area	43.4	ac

Basin Limits

2043+00 to 2091+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	29.75	98							2915.70	29.75
Grass	3.31	39							129.01	3.31
Pond Site (Pervious)	3.84	39							149.76	3.84
Pond Site (Impervious)	6.50	100							650.00	6.50
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	43.4		0		0		0		3844.47	43.4
								WEIGHTED CN		89

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 1.3
$S = (1000/CN) - 10$

Runoff Depth (Q) = 15.4 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 55.86 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 30-3

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		33.06	ac
Weighted C		0.87	
Total Impervious	0.95	29.75	ac
Total Pervious	0.20	3.31	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		2.41	ac-ft
Required Treatment (1/2" over Area)		1.38	ac-ft
		2.41	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	33.89	ac-ft
Proposed Runoff Volume	55.86	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**21.98**	**ac-ft**
Floodplain Compensation	**5.19**	**ac-ft**
TOTAL STORAGE	**24.39**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0	ft	Freeboard	1.0	ft
L/W Ratio	2.0		Side Slopes (1:H)	4.0	
Maximum Treatment Volume Depth	1.5	ft	Wet/Dry	Dry	
Maximum Pond Depth Below Freeboard	4.0	ft	Assumed Control EL		ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	768	ft
WTOP OF SLOPE	384	ft
Area	6.77	ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	969	ft
WSITE	509	ft
Area	11.32	ac

Pond 30-3

	Contour	Area	Storage	Cumulative	Notes
GIS	71	73320	0.0	0.0	Soil 15
GIS	75	138750	424140.0	424140.0	
GIS	79	184230	645960.0	1070100.0	

Cumulative Ret (ac-ft) Below Freeboard

24.57

Pond Area

4.2 602527

13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 31-1

Date: 2/28/2024

Full **Typical Section Width**

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	24.69	ac
Pond Parcel Area	10.65	ac
Total Area	35.34	ac

Basin Limits

2091+00 to 2126+80

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	7.23	98							708.77	7.23
Grass	17.46	39							680.85	17.46
Pond Site Pre Condition	10.65	39							415.35	10.65
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	35.34		0		0		0		1804.97	35.34
								WEIGHTED CN		51

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 9.1 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 9.6
$S = (1000/CN) - 10$

Estimated Runoff Volume = 26.92 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	24.69	ac
Pond Parcel Area	10.65	ac
Total Area	35.34	ac

Basin Limits

2091+00 to 2126+80

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	22.19	98							2174.63	22.19
Grass	2.50	39							97.50	2.50
Pond Site (Pervious)	2.85	39							111.15	2.85
Pond Site (Impervious)	7.80	100							780.00	7.80
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	35.34		0		0		0		3163.27	35.34
								WEIGHTED CN		90

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 15.6 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 1.2
$S = (1000/CN) - 10$

Estimated Runoff Volume = 45.86 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 31-1

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		24.69	ac
Weighted C		0.87	
Total Impervious	0.95	22.19	ac
Total Pervious	0.20	2.50	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		1.80	ac-ft
Required Treatment (1/2" over Area)		1.03	ac-ft
		1.80	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	26.92	ac-ft
Proposed Runoff Volume	45.86	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**18.94**	**ac-ft**
TOTAL STORAGE	**20.73**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0	ft	Freeboard	1.0	ft
L/W Ratio	2.0		Side Slopes (1:H)	4.0	
Maximum Treatment Volume Depth	1.5	ft	Wet/Dry	Dry	
Maximum Pond Depth Below Freeboard	7.0	ft	Assumed Control EL		ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	554	ft
WTOP OF SLOPE	277	ft
Area	3.53	ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	713	ft
WSITE	381	ft
Area	6.23	ac

Pond 31-1

	Contour	Area	Storage	Cumulative	Notes
GIS	67	48650	0.0	0.0	Soil 15
GIS	70	135640	276435.0	276435.0	
GIS	74	184230	639740.0	916175.0	

Cumulative Ret (ac-ft) Below Freeboard

21.03

Pond Area

4.2

602527

13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 31-2 | Full | **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	24.69	ac
Pond Parcel Area	11.92	ac
Total Area	36.61	ac

Basin Limits

2091+00 to 2126+80

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN		
Impvervious	7.23	98							708.77	7.23
Grass	17.46	39							680.85	17.46
Pond Site Pre Condition	11.92	39							464.88	11.92
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	36.61		0		0		0		1854.50	36.61
								WEIGHTED CN		51

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 9.7
S = (1000/CN) - 10

Runoff Depth (Q) = 9.1 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 27.62 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	24.69	ac
Pond Parcel Area	11.92	ac
Total Area	36.61	ac

Basin Limits

2091+00 to 2126+80

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN		
Impervious	22.19	98							2174.63	22.19
Grass	2.50	39							97.50	2.50
Pond Site (Pervious)	2.85	39							111.15	2.85
Pond Site (Impervious)	9.07	100							907.00	9.07
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	36.61		0		0		0		3290.27	36.61
								WEIGHTED CN		90

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 1.1
S = (1000/CN) - 10

Runoff Depth (Q) = 15.6 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 47.65 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 31-2

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		24.69	ac
Weighted C		0.87	
Total Impervious	0.95	22.19	ac
Total Pervious	0.20	2.50	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		1.80	ac-ft
Required Treatment (1/2" over Area)		1.03	ac-ft
		1.80	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	27.62	ac-ft
Proposed Runoff Volume	47.65	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**20.03**	**ac-ft**
TOTAL STORAGE	**21.83**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	7.0 ft	Assumed Control EL	ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	568 ft
WTOP OF SLOPE	284 ft
Area	3.70 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	729 ft
WSITE	389 ft
Area	6.51 ac

Pond 31-2

	Contour	Area	Storage	Cumulative	Notes
GIS	68	66230	0.0	0.0	Soil 15
GIS	73	134230	501150.0	501150.0	
GIS	77	175420	619300.0	1120450.0	

Cumulative Ret (ac-ft) Below Freeboard

25.72

Pond Area

4.0 602527

13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 31-3

Date: 2/28/2024

Full **Typical Section Width**

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	24.69	ac
Pond Parcel Area	10.39	ac
Total Area	35.08	ac

Basin Limits

2091+00 to 2126+80

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impvervious	7.23	98							708.77	7.23
Grass	17.46	39							680.85	17.46
Pond Site Pre Condition	10.39	39							405.21	10.39
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	35.08		0		0		0		1794.83	35.08
								WEIGHTED CN		51

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 9.2 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 9.5
$S = (1000/CN) - 10$

Estimated Runoff Volume = 26.78 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	24.69	ac
Pond Parcel Area	10.39	ac
Total Area	35.08	ac

Basin Limits

2091+00 to 2126+80

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	22.19	98							2174.63	22.19
Grass	2.50	39							97.50	2.50
Pond Site (Pervious)	2.85	39							111.15	2.85
Pond Site (Impervious)	7.54	100							754.00	7.54
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	35.08		0		0		0		3137.27	35.08
								WEIGHTED CN		89

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 15.6 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 1.2
$S = (1000/CN) - 10$

Estimated Runoff Volume = 45.49 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 31-3

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		24.69	ac
Weighted C		0.87	
Total Impervious	0.95	22.19	ac
Total Pervious	0.20	2.50	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		1.80	ac-ft
Required Treatment (1/2" over Area)		1.03	ac-ft
		1.80	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	26.78	ac-ft
Proposed Runoff Volume	45.49	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**18.71**	**ac-ft**
TOTAL STORAGE	**20.51**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	7.0 ft	Assumed Control EL	ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	552 ft
WTOP OF SLOPE	276 ft
Area	3.49 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	710 ft
WSITE	379 ft
Area	6.18 ac

Pond 31-3

	Contour	Area	Storage	Cumulative	Notes
GIS	77	54320	0.0	0.0	Soil 15
GIS	82	118760	432700.0	432700.0	
GIS	86	171230	579980.0	1012680.0	

Cumulative Ret (ac-ft) Below Freeboard

23.25

Pond Area

3.9

602527

13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 32-1 | Full **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	31.28	ac
Pond Parcel Area	6.62	ac
Total Area	37.9	ac

Basin Limits

2126+80 to 2159+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN		
Impervious	6.51	98							637.49	6.51
Grass	24.77	39							966.22	24.77
Pond Site Pre Condition	6.62	39							258.18	6.62
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	37.9		0		0		0		1861.90	37.9
								WEIGHTED CN		49

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 10.4
S = (1000/CN) - 10

Runoff Depth (Q) = 8.7 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 27.58 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	31.28	ac
Pond Parcel Area	6.62	ac
Total Area	37.9	ac

Basin Limits

2126+80 to 2159+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN	AREA (ft²)	CN		
Impervious	19.96	98							1955.95	19.96
Grass	11.32	39							441.53	11.32
Pond Site (Pervious)	2.62	39							102.18	2.62
Pond Site (Impervious)	4.00	100							400.00	4.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	37.9		0		0		0		2899.66	37.9
								WEIGHTED CN		77

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 3.1
S = (1000/CN) - 10

Runoff Depth (Q) = 13.7 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 43.28 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 32-1

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		31.28	ac
Weighted C		0.68	
Total Impervious	0.95	19.96	ac
Total Pervious	0.20	11.32	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		1.77	ac-ft
Required Treatment (1/2" over Area)		1.30	ac-ft
		1.77	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	27.58	ac-ft
Proposed Runoff Volume	43.28	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**15.70**	**ac-ft**
Floodplain Compensation	**9.24**	**ac-ft**
TOTAL STORAGE	**24.94**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	7.0 ft	Assumed Control EL	60.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	605 ft
WTOP OF SLOPE	302 ft
Area	4.19 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	773 ft
WSITE	411 ft
Area	7.29 ac

Pond 32-1

	Contour	Area	Storage	Cumulative	Notes
GIS	67	68340	0.0	0.0	Soil 15
GIS	72	123890	480575.0	480575.0	
GIS	76	179230	606240.0	1086815.0	

Cumulative Ret (ac-ft) Below Freeboard

24.95

Pond Area

4.1 602527

13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 32-2
Date: 2/28/2024

Full **Typical Section Width**

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	31.28	ac
Pond Parcel Area	5.00	ac
Total Area	36.28	ac

Basin Limits

2126+80 to 2159+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	6.51	98							637.49	6.51
Grass	24.77	39							966.22	24.77
Pond Site Pre Condition	5.00	39							195.00	5.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	36.28		0		0		0		1798.72	36.28
								WEIGHTED CN		50

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 8.8 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 10.2
$S = (1000/CN) - 10$

Estimated Runoff Volume = 26.69 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	31.28	ac
Pond Parcel Area	5.00	ac
Total Area	36.28	ac

Basin Limits

2126+80 to 2159+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	19.96	98							1955.95	19.96
Grass	11.32	39							441.53	11.32
Pond Site (Pervious)	1.50	39							58.50	1.50
Pond Site (Impervious)	3.50	100							350.00	3.50
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	36.28		0		0		0		2805.98	36.28
								WEIGHTED CN		77

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Runoff Depth (Q) = 13.8 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Potential Abstraction (S) = 2.9
$S = (1000/CN) - 10$

Estimated Runoff Volume = 41.81 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 32-2

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		31.28	ac
Weighted C		0.68	
Total Impervious	0.95	19.96	ac
Total Pervious	0.20	11.32	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		1.77	ac-ft
Required Treatment (1/2" over Area)		1.30	ac-ft
		1.77	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	26.69	ac-ft
Proposed Runoff Volume	41.81	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**15.13**	**ac-ft**
Floodplain Compensation	**9.24**	**ac-ft**
TOTAL STORAGE	**24.37**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	5.0 ft	Assumed Control EL	63.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	693 ft
WTOP OF SLOPE	346 ft
Area	5.51 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	879 ft
WSITE	464 ft
Area	9.36 ac

Pond 32-2

	Contour	Area	Storage	Cumulative	Notes
GIS	73	56750	0.0	0.0	Soil 15
GIS	79	113450	510600.0	510600.0	
GIS	83	166345	559590.0	1070190.0	

Cumulative Ret (ac-ft) Below Freeboard

24.57

Pond Area

3.8

602527

13.83212

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 32-3 | Full **Typical Section Width**

Date: 2/28/2024

PRE-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	31.28	ac
Pond Parcel Area	10.05	ac
Total Area	41.33	ac

Basin Limits

2126+80 to 2159+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	6.51	98							637.49	6.51
Grass	24.77	39							966.22	24.77
Pond Site Pre Condition	10.05	39							391.95	10.05
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	41.33		0		0		0		1995.67	41.33
								WEIGHTED CN		48

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 10.7
$S = (1000/CN) - 10$

Runoff Depth (Q) = 8.6 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 29.45 ac-ft
Peak Volume = A x Q

POST-DEVELOPMENT RUNOFF PARAMETERS

Onsite Basin Area	31.28	ac
Pond Parcel Area	10.05	ac
Total Area	41.33	ac

Basin Limits

2126+80 to 2159+00

CURVE NUMBER CALCUATION:

LAND USE	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN*A	TOTAL AREA
	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN	AREA (ft^2)	CN		
Impervious	19.96	98							1955.95	19.96
Grass	11.32	39							441.53	11.32
Pond Site (Pervious)	2.65	39							103.35	2.65
Pond Site (Impervious)	7.40	100							740.00	7.40
									0.00	0.00
									0.00	0.00
									0.00	0.00
									0.00	0.00
TOTALS	41.33		0		0		0		3240.83	41.33
								WEIGHTED CN		78

Rainfall Depth for 100yr-240hr (P) = 16.9 in
NOAA Atlas 14

Potential Abstraction (S) = 2.8
$S = (1000/CN) - 10$

Runoff Depth (Q) = 14.0 in
$Q = (P - 0.2S)^2/(P + 0.8S)$

Estimated Runoff Volume = 48.20 ac-ft
Peak Volume = A x Q

POND SIZING CALCULATIONS

I-75 Pond Siting

FPID: 452074-2-32-01

Pond Name: 32-3

Date: 2/28/2024

POND SIZING ESTIMATION

1) Treatment Volume (Proposed Basin Area x 1" Runoff):

Area Inside R/W		31.28	ac
Weighted C		0.68	
Total Impervious	0.95	19.96	ac
Total Pervious	0.20	11.32	ac
Outstanding FL Water (Y/N)[multiply x 1.5]		N	
Required Treatment (Runoff from 1" Rainfall)		1.77	ac-ft
Required Treatment (1/2" over Area)		1.30	ac-ft
		1.77	**ac-ft**

(whichever is greater)

2) Estimated Peak Attenuation Volume (EPAV):

Existing Runoff Volume	29.45	ac-ft
Proposed Runoff Volume	48.20	ac-ft
EPAV = Proposed Runoff - Existing Runoff Volume	**18.74**	**ac-ft**
Floodplain Compensation	**9.24**	**ac-ft**
TOTAL STORAGE	**27.98**	**ac-ft**

3) Estimated Pond Configuration:

Maintenance Berm Width	20.0 ft	Freeboard	1.0 ft
L/W Ratio	2.0	Side Slopes (1:H)	4.0
Maximum Treatment Volume Depth	1.5 ft	Wet/Dry	Dry
Maximum Pond Depth Below Freeboard	5.0 ft	Assumed Control EL	60.00 ft

4) Estimated Pond Dimensions Including Freeboard

LTOP OF SLOPE	741 ft
WTOP OF SLOPE	370 ft
Area	6.29 ac

5) Minimum Site Dimensions (Considering Maintenance Berm and 20% Factor of Safety)

LSITE	937 ft
WSITE	492 ft
Area	10.59 ac

Pond 32-3

	Contour	Area	Storage	Cumulative	Notes
GIS	66	69450	0.0	0.0	Soil 15
GIS	71	146650	540250.0	540250.0	
GIS	75	195450	684200.0	1224450.0	

Cumulative Ret (ac-ft) Below Freeboard

28.11

Pond Area

4.5	602527
	13.83212

APPENDIX C
I-75 Flood Hazard Zones and Soils

BURGESS & NIPLE
Engineers ■ Planners

Legend

- OFW Aquatic Preserves
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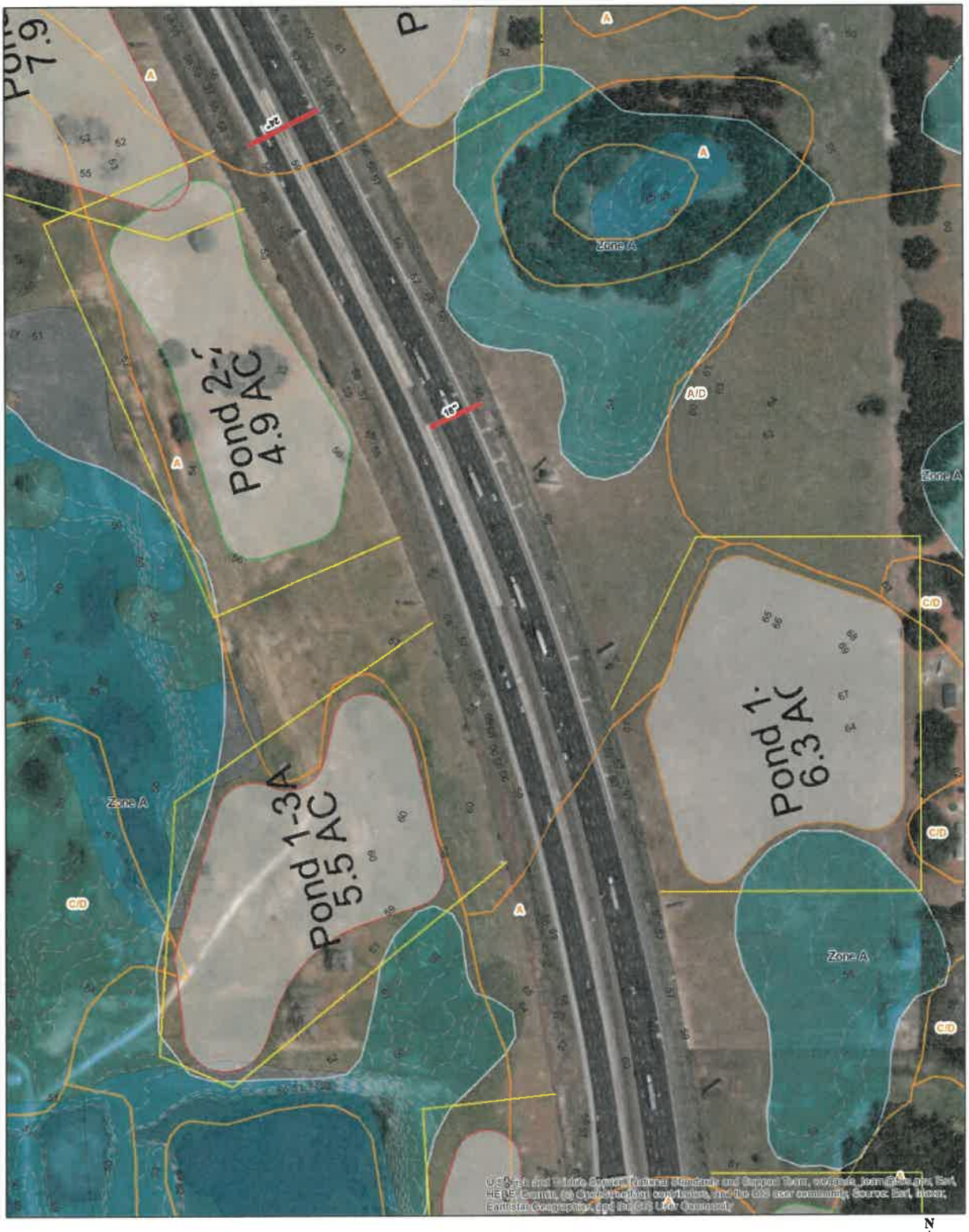

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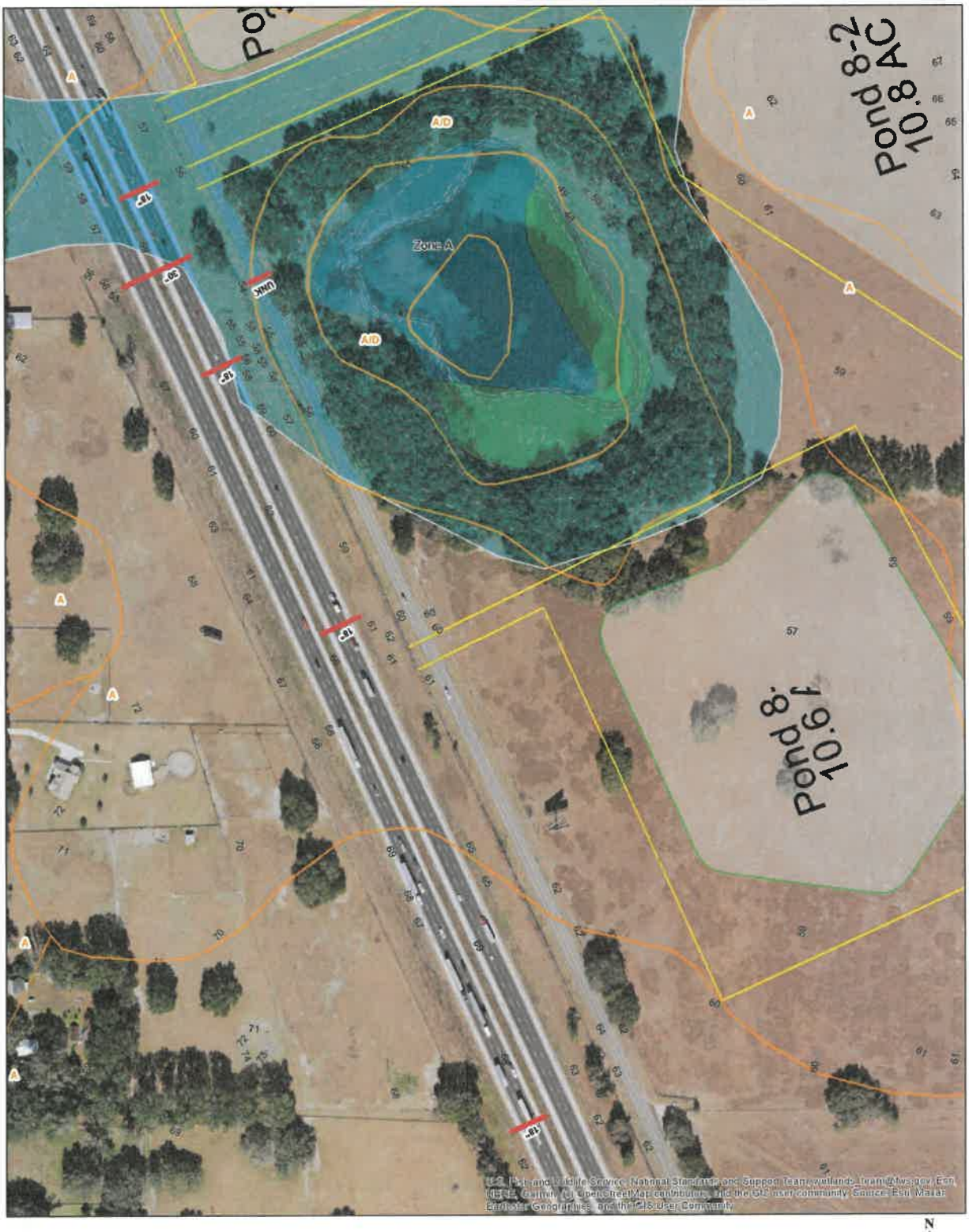

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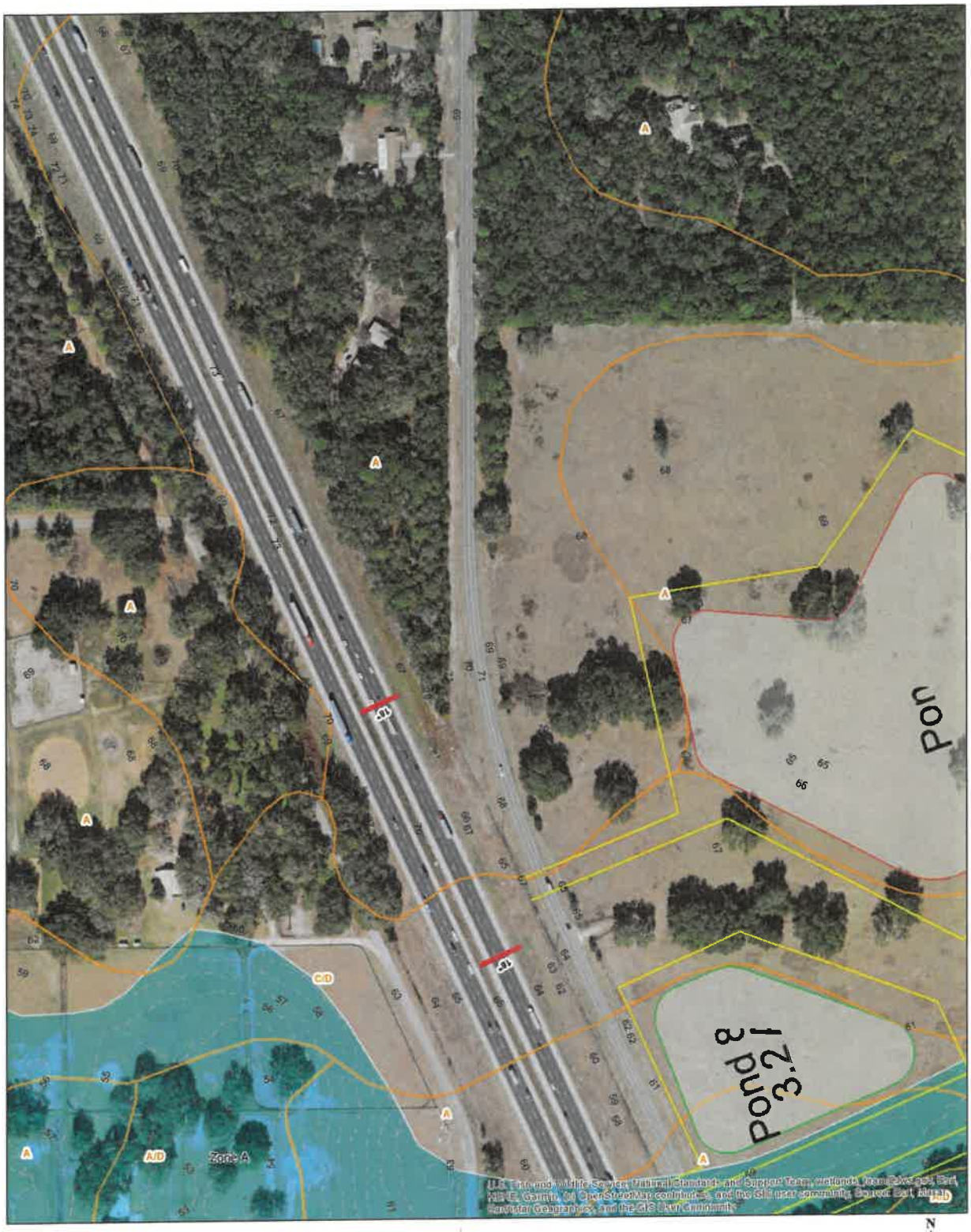

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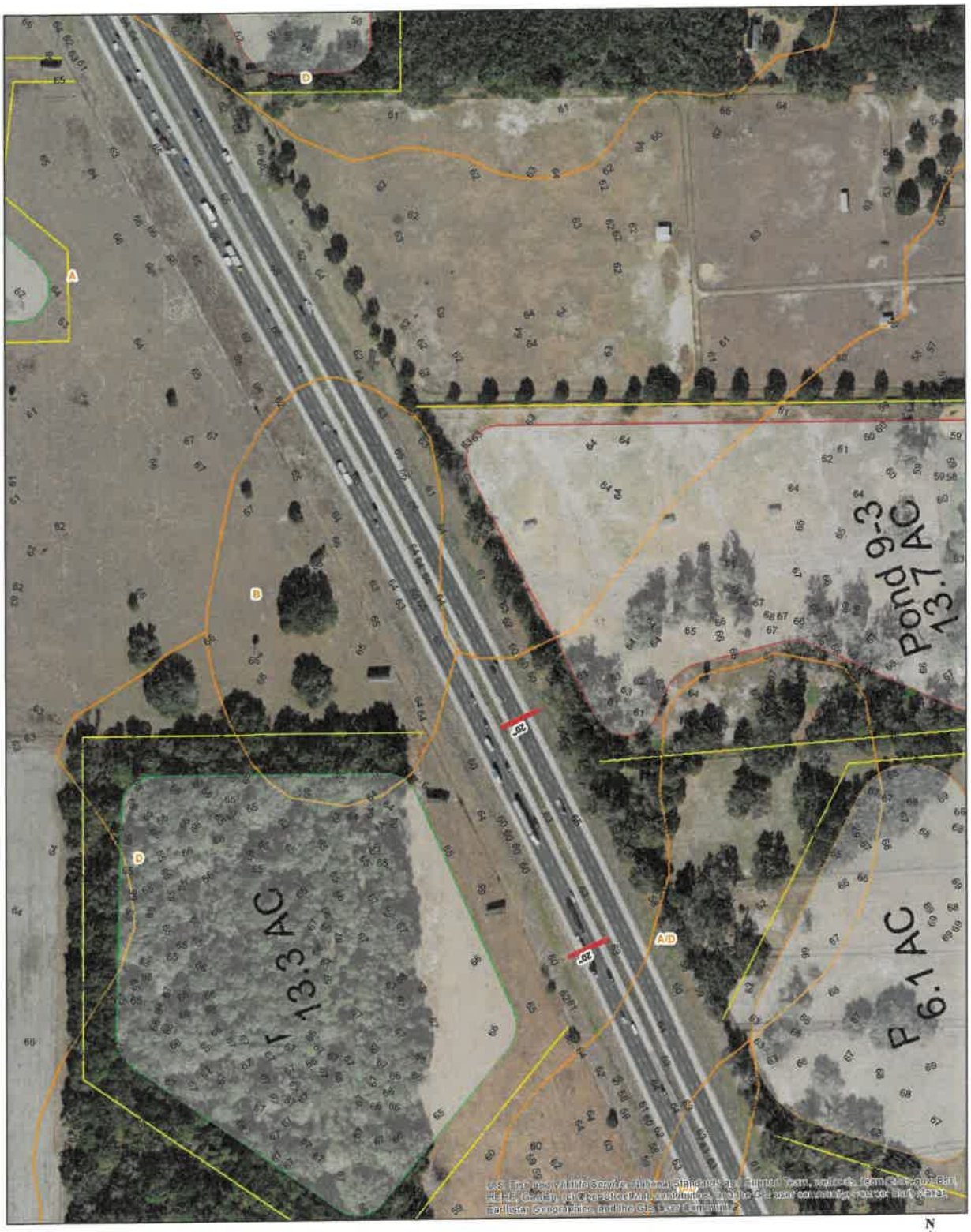

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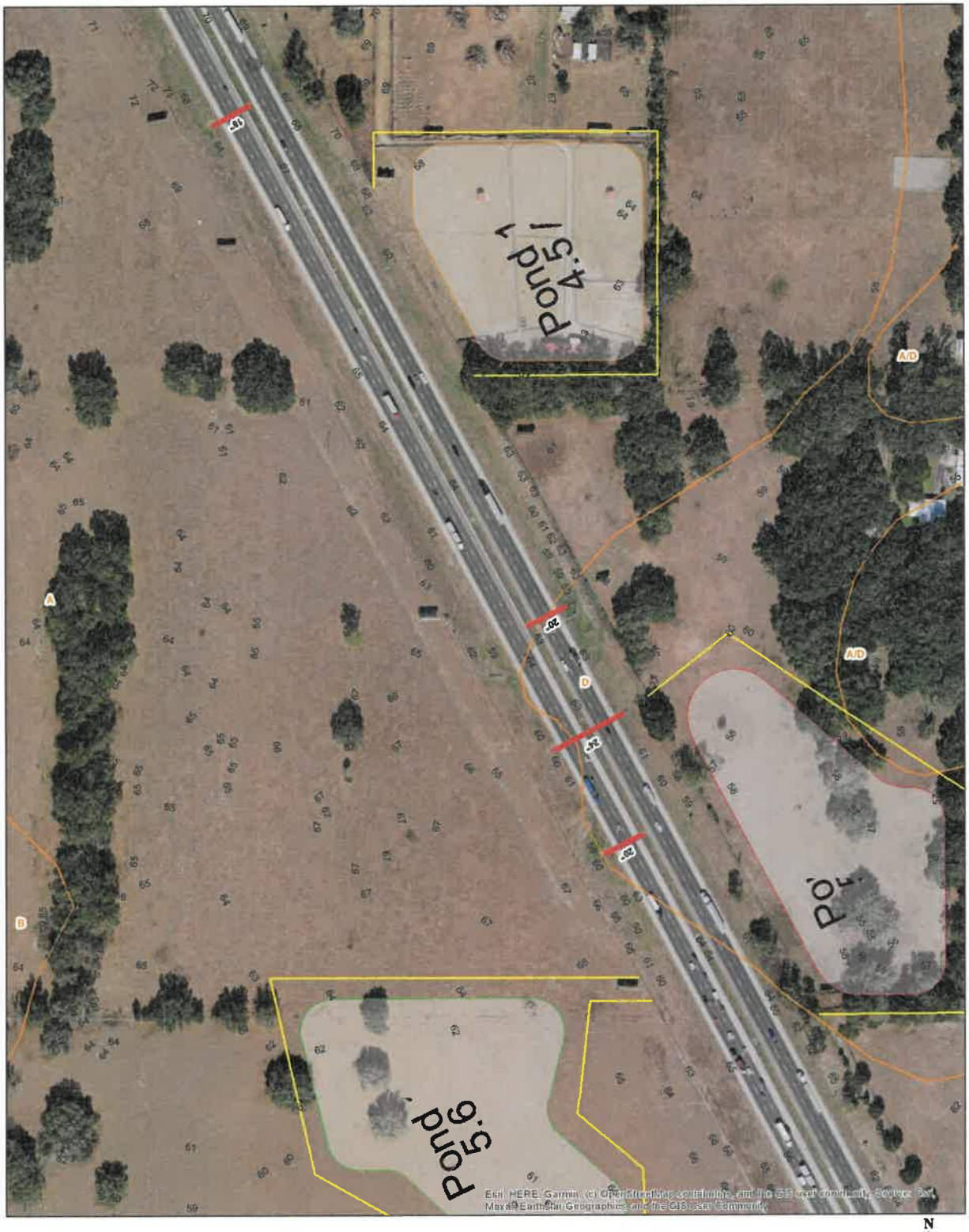

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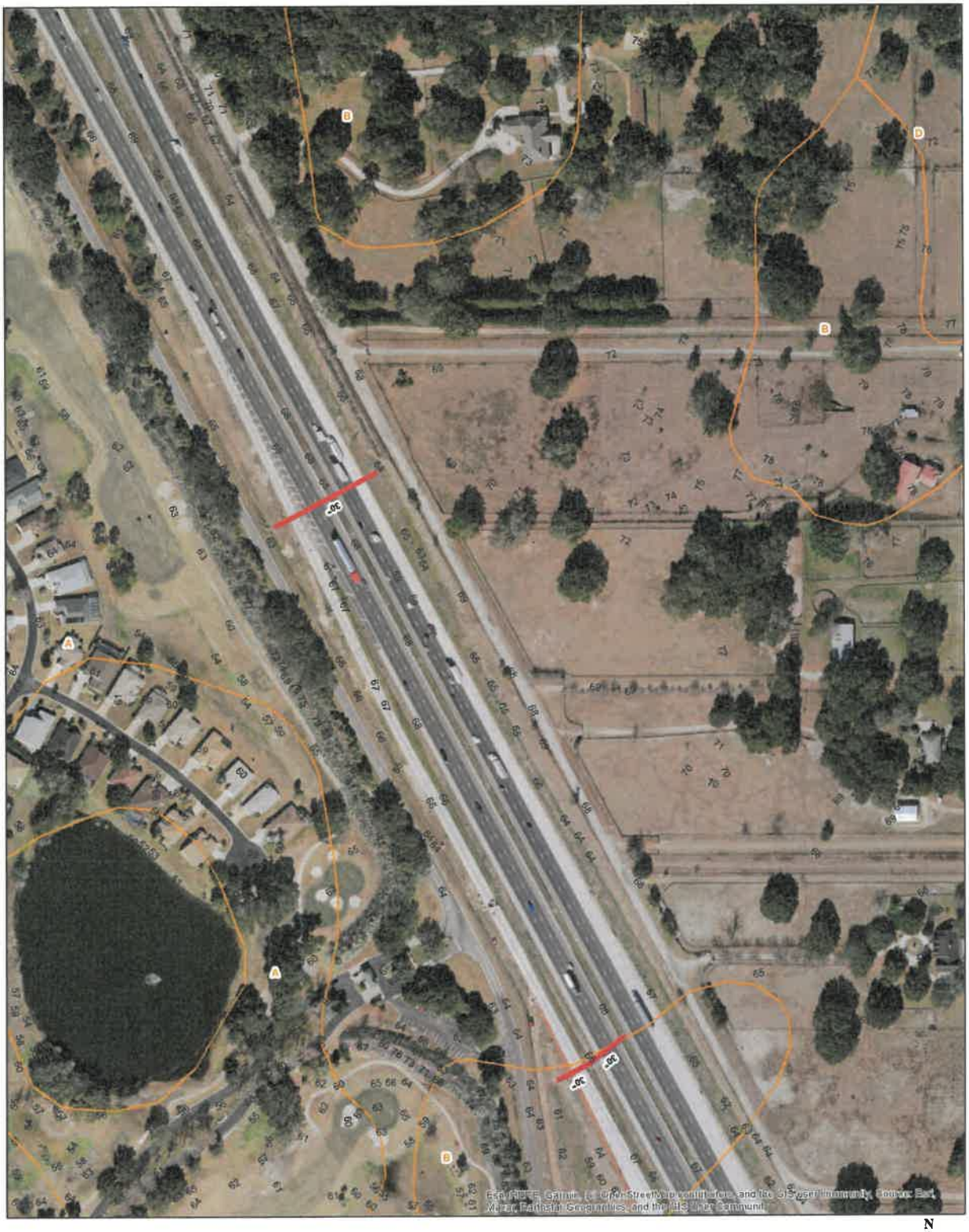

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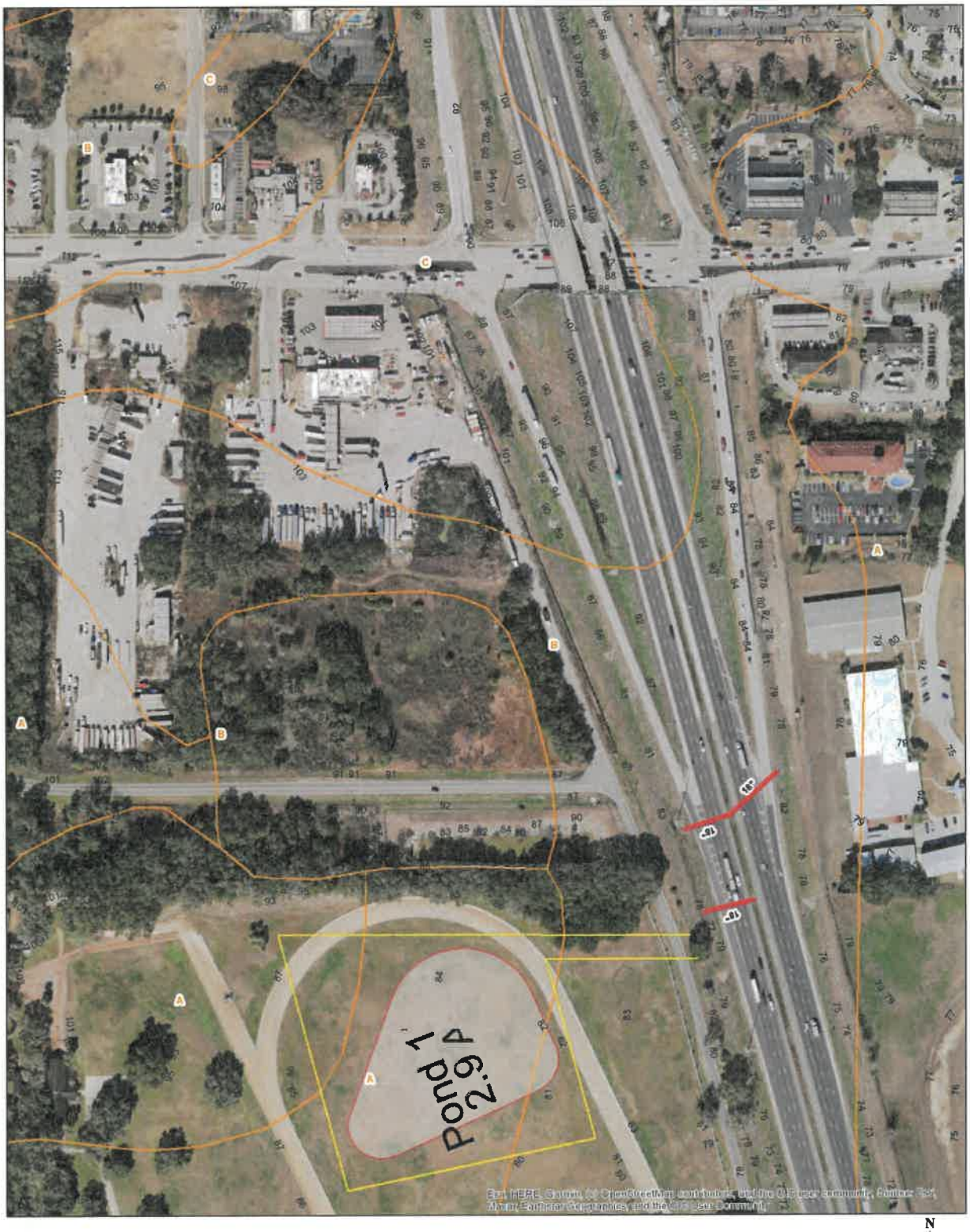

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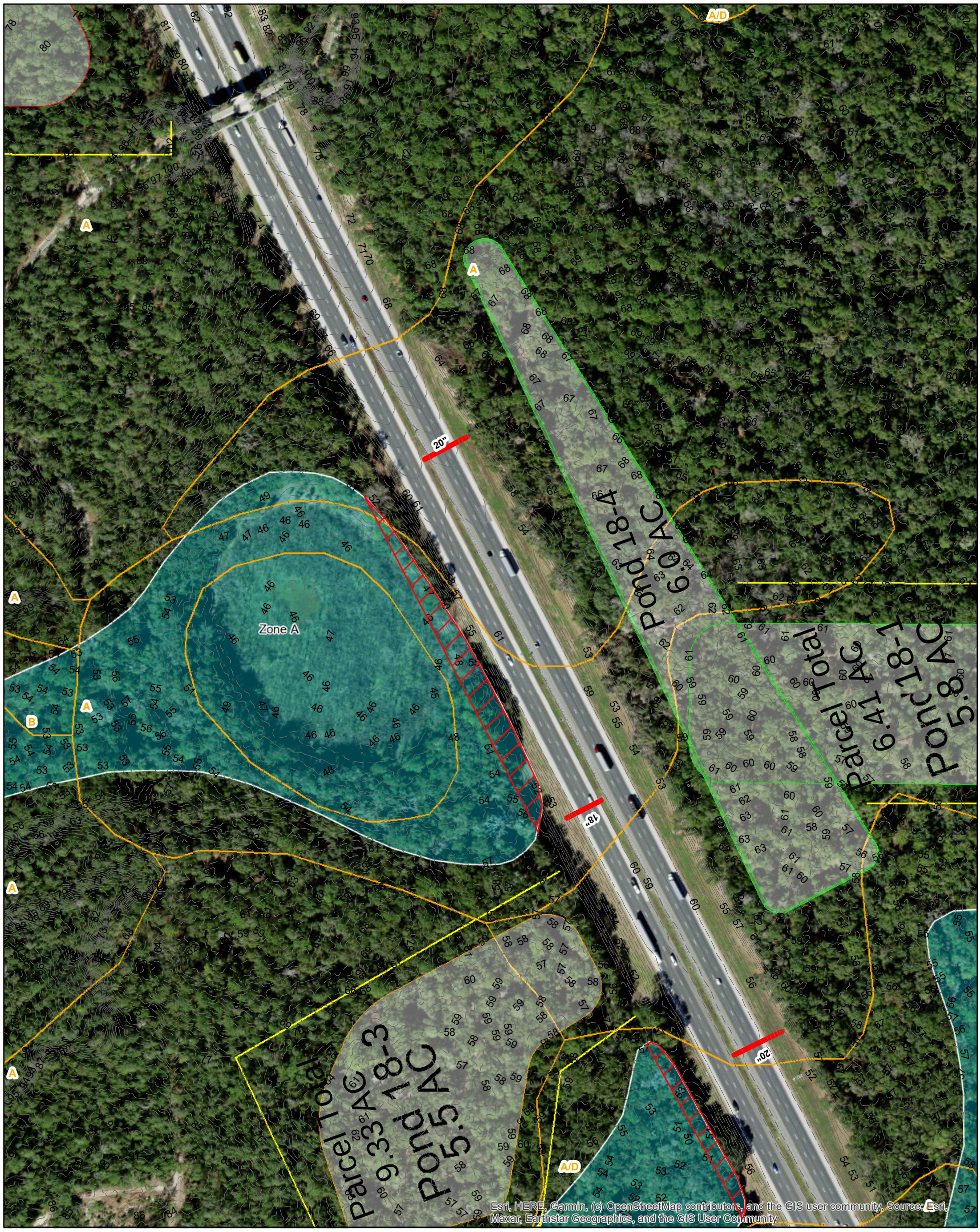

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Legend

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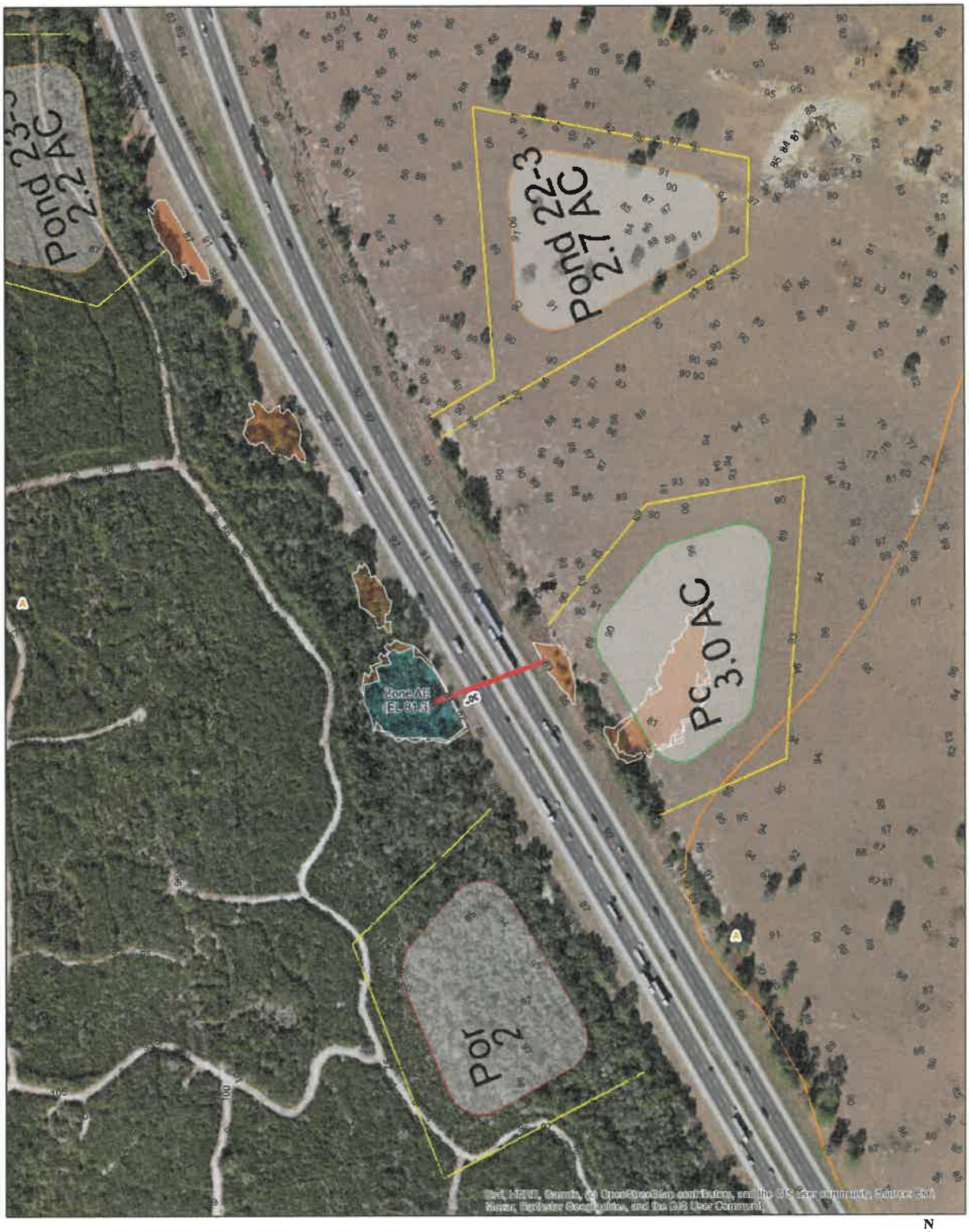

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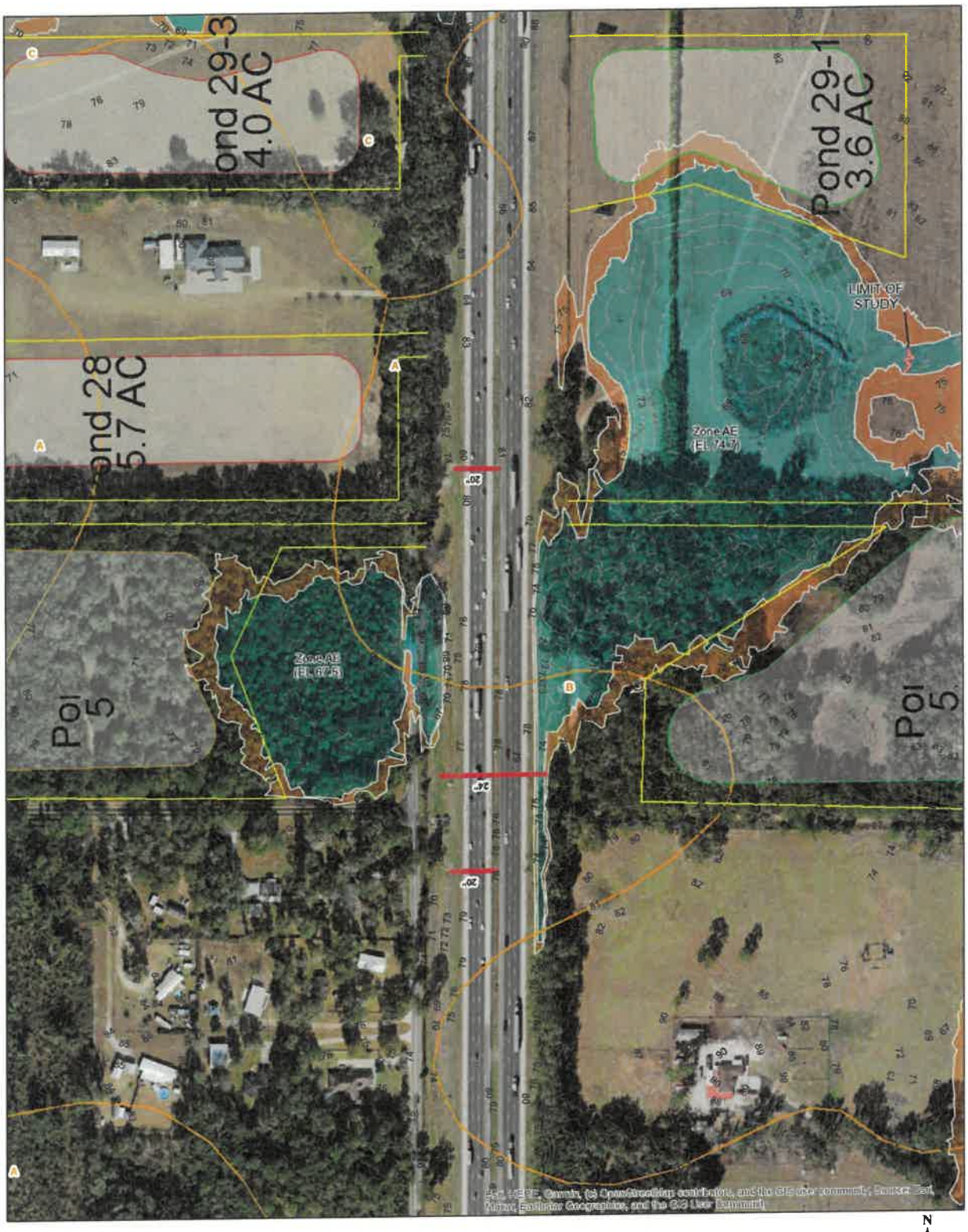

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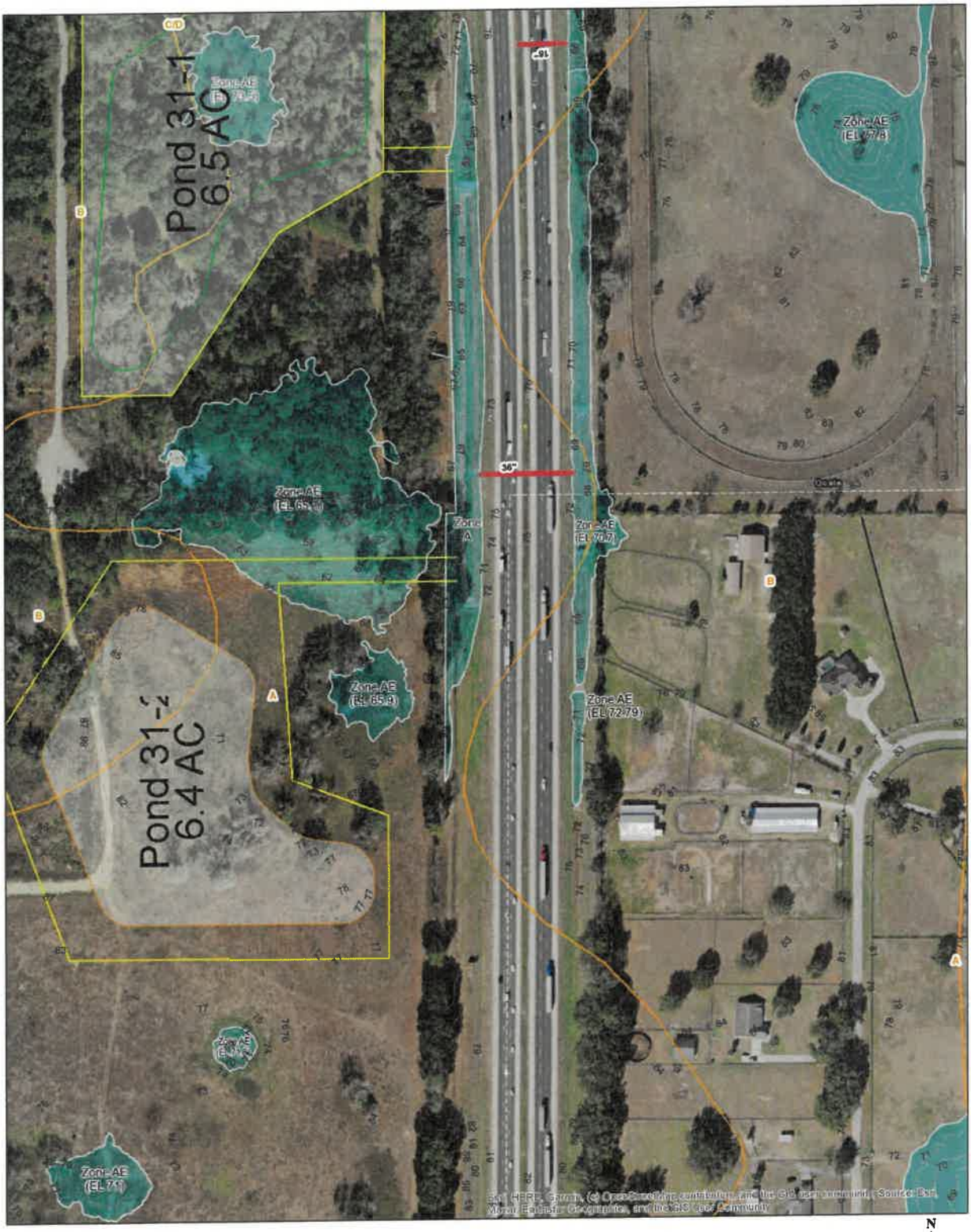

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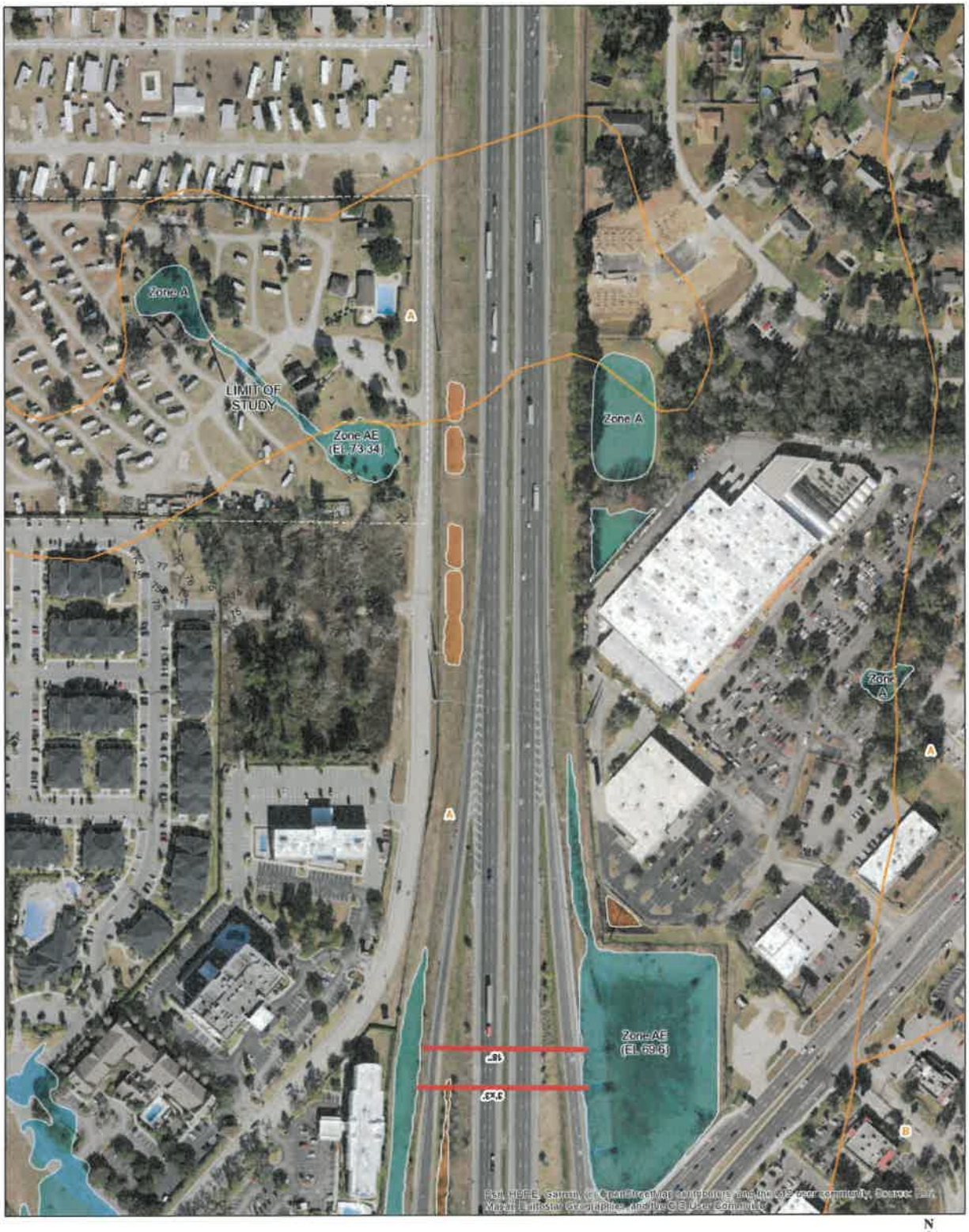

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District Five
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Stephen.Browning@dot.state.fl.us