

Town Council Meeting October 24, 2022 at 6:00 PM Howey-in the-Hills Town Hall 101 N. Palm Ave., Howey-in-the-Hills, FL 34737

Join Zoom Meeting:

https://us06web.zoom.us/j/85288994635?pwd=YkE4dWxTaHNUWWYvbTREdFVRekRmQT09 Meeting ID: 852 8899 4635 | Passcode: 586855

AGENDA

Call the Town Council Meeting to order Pledge of Allegiance to the Flag Reading of a Poem by Mr. Jim Steele

<u>**ROLL CALL</u>** Acknowledgement of Quorum</u>

AGENDA APPROVAL/REVIEW

CONSENT AGENDA

Routine items are placed on the Consent Agenda to expedite the meeting. If Town Council/Staff wish to discuss any item, the procedure is as follows: (1) Pull the item(s) from the Consent Agenda; (2) Vote on the remaining item(s); and (3) Discuss each pulled item and vote.

1. The approval of the minutes and ratification and confirmation of all Town Council actions at the October 10, 2022 Town Council Meeting.

PUBLIC HEARING

- 2. Consideration and Recommendation: 469 Avila Place Pool Variance
- 3. Consideration and Approval: (Second Reading) Ordinance 2022-019 Reserve/Hillside Groves Development - PUD Amendment

AN ORDINANCE OF THE TOWN OF HOWEY-IN-THE-HILLS, FLORIDA, PERTAINING TO LAND USE; AMENDING ORDINANCE 2021-010 PERTAINING TO THE USE OF LAND WITHIN THE PROPERTY KNOWN AS THE RESERVE AT HOWEY-IN-THE-HILLS; PROVIDING FINDINGS OF THE TOWN COUNCIL; AMENDING THE AMENDED AND RESTATED DEVELOPER'S AGREEMENT FOR THE RESERVE AT HOWEY-IN-THE-HILLS TO ALLOW A CHANGE IN THE REQUIREMENTS FOR CONSTRUCTION OF A NORTH-SOUTH ROAD; RATIFYING AND CONFIRMING THE PROVISIONS OF ORDINANCE 2021-010, AS AMENDED; PROVIDING FOR SEVERABILITY, CONFLICTS, AND AN EFFECTIVE DATE.

- Mayor MacFarlane will read the Ordinance title
- Town Administrator will explain Ordinance 2022-019
- Mayor MacFarlane will open Public Comment and Questions for this item only.
- Mayor MacFarlane will close Public Comment.
- Motion to approve Ordinance 2022-019
- Council Discussion
- Roll Call Vote

OLD BUSINESS

- 4. Consideration and Approval: Appointment of Alan Hayes to the Planning and Zoning Board
- 5. Consideration and Approval: Fencing around Town Lift Stations in Central Park and Griffin Park

NEW BUSINESS

- 6. Presentation: Well 5 & 6 / Water Treatment Plant #3 Overview
- 7. Consideration and Approval: (First Reading) Ordinance 2022-020 Compensation of the Mayor, Mayor Pro Tempore and Town Council Members.

AN ORDINANCE OF THE TOWN OF HOWEY-IN-THE-HILLS, FLORIDA, PERTAINING TO TOWN COUNCIL; REVISING THE COMPENSATION TO BE PAID TO THE MAYOR, MAYOR PRO TEMPORE AND COUNCILORS UNDER SECTION 42-10 OF THE TOWN'S CODE OF ORDINANCES; PROVIDING FOR SEVERABILITY, CODIFICATION AND AN EFFECTIVE DATE.

- Mayor MacFarlane will read the Ordinance title
- Town Administrator will explain Ordinance 2022-020
- Mayor MacFarlane will open Public Comment and Questions for this item only.
- Mayor MacFarlane will close Public Comment.
- Motion to approve Ordinance 2022-020
- Council Discussion
- Roll Call Vote

DEPARTMENT REPORTS

8. Town Manager

COUNCIL MEMBER REPORTS

- 9. Mayor Pro-Tem Gallelli
- **10.** Councilor Lehning
- **11.** Councilor Miles
- 12. Councilor Klein
- 13. Mayor MacFarlane

PUBLIC COMMENTS

Any person wishing to address the Mayor and Town Council and who is not on the agenda is asked to speak their name and address. Three (3) minutes is allocated per speaker.

ADJOURNMENT

To Comply with Title II of the Americans with Disabilities Act (ADA):

Qualified individuals may get assistance through the Florida Relay Service by dialing 7-1-1. Florida Relay is a service provided to residents in the State of Florida who are Deaf, Hard of Hearing, Deaf/Blind, or Speech Disabled that connects them to standard (voice) telephone users. They utilize a wide array of technologies, such as Text Telephone (TTYs) and ASCII, Voice Carry-Over (VCO), Speech to Speech (STS), Relay Conference Captioning (RCC), CapTel, Voice, Hearing Carry-Over (HCO), Video Assisted Speech to Speech (VA-STS) and Enhanced Speech to Speech.

Howey Town Hall is inviting you to a scheduled Zoom meeting. Topic: Town Council Meeting Time: Oct 24, 2022 06:00 PM Eastern Time (US and Canada) Join Zoom Meeting https://us06web.zoom.us/j/85288994635?pwd=YkE4dWxTaHNUWWYvbTREdFVRekRmQT09 Meeting ID: 852 8899 4635 Passcode: 586855 Dial by your location +1 646 558 8656 US (New York) +1 346 248 7799 US (Houston) Meeting ID: 852 8899 4635 Passcode: 586855 Find your local number: https://us06web.zoom.us/u/kbK61kS8to

Please Note: In accordance with F.S. 286.0105: Any person who desires to appeal any decision or recommendation at this meeting will need a record of the proceedings, and that for such purposes may need to ensure that a verbatim record of the proceedings is made, which includes the testimony and evidence upon which the appeal is based. The Town of Howey-in-the-Hills does not prepare or provide this verbatim record. Note: In accordance with the F.S. 286.26: Persons with disabilities needing assistance to participate in any of these proceedings should contact Town Hall, 101 N. Palm Avenue, Howey-in-the-Hills, FL 34737, (352) 324-2290 at least 48 business hours in advance of the meeting.



Town Council Meeting October 10, 2022 at 6:00 PM Howey-in the-Hills Town Hall 101 N. Palm Ave., Howey-in-the-Hills, FL 34737

AGENDA

Mayor MacFarlane called the Town Council Meeting to order at 6:00 p.m. Mayor MacFarlane led the attendees in the Pledge of Allegiance to the Flag.

Mayor MacFarlane explained that Councilor Klein and Mayor Pro Tem Gallelli would not be able to attend the Town Council meeting.

ROLL CALL

Acknowledgement of Quorum

MEMBERS PRESENT:

Councilor David Miles | Councilor George Lehning | Mayor Martha MacFarlane

MEMBERS EXCUSED ABSENT:

Mayor Pro Tem Marie V Gallelli | Councilor Rick Klein

STAFF PRESENT:

Sean O'Keefe, Town Administrator | James Southall, Public Utilities Supervisor (Zoom) | Rick Thomas, Police Chief | Tara Hall, Library Director | Azure Botts, Code Enforcement Officer | Abigail Herrera, Finance Supervisor | Tom Wilkes, Town Attorney (Zoom) | Tom Harowski, Town Planner (via Zoom)

AGENDA APPROVAL/REVIEW

Motion made by Councilor Lehning to approve the Meeting's Agenda; seconded by Councilor Miles. Motion approved unanimously by voice vote.

Voting

Yea: Councilor Miles, Councilor Lehning, Mayor MacFarlane Nay: None

CONSENT AGENDA

Routine items are placed on the Consent Agenda to expedite the meeting. If Town Council/Staff wish to discuss any item, the procedure is as follows: (1) Pull the item(s) from the Consent Agenda; (2) Vote on the remaining item(s); and (3) Discuss each pulled item and vote.

- 1. The approval of the minutes and ratification and confirmation of all Town Council actions at the September 26, 2022 Town Council Public Hearing on Final Budget and Millage Rate.
- 2. The approval of the minutes and ratification and confirmation of all Town Council actions at the September 26, 2022 Regular Town Council Meeting.

Motion made by Councilor Lehning to approve the Consent Agenda; seconded by Councilor Miles. Motion approved unanimously by voice vote.

Voting

Yea: Councilor Miles, Councilor Lehning, Mayor MacFarlane Nay: None

PUBLIC HEARING

3. Consideration and Approval: (First Reading) Ordinance 2022-019 - Reserve/Hillside Groves Development - PUD Amendment

Martha MacFarlane, Mayor, read Ordinance 2022-019 by title only:

AN ORDINANCE OF THE TOWN OF HOWEY-IN-THE-HILLS, FLORIDA, PERTAINING TO LAND USE; AMENDING ORDINANCE 2021-010 PERTAINING TO THE USE OF LAND WITHIN THE PROPERTY KNOWN AS THE RESERVE AT HOWEY-IN-THE-HILLS; PROVIDING FINDINGS OF THE TOWN COUNCIL; AMENDING THE AMENDED AND RESTATED DEVELOPER'S AGREEMENT FOR THE RESERVE AT HOWEY-IN-THE-HILLS TO ALLOW A CHANGE IN THE REQUIREMENTS FOR CONSTRUCTION OF A NORTH-SOUTH ROAD; RATIFYING AND CONFIRMING THE PROVISIONS OF ORDINANCE 2021-010, AS AMENDED; PROVIDING FOR SEVERABILITY, CONFLICTS, AND AN EFFECTIVE DATE.

Mayor MacFarlane asked Town Manager, Sean O'Keefe, to introduce and explain this proposed ordinance. Mr. O'Keefe explained that the primary changes in the proposed Developer's Agreement mostly were adjustments to roads in the development; the biggest change being the spine road going through the center of the development changing from four lanes to two lanes.

Town Planner, Tom Harowski, explained that the primary reason for the amended Developer's Agreement was due to the collector road going through the development, changing from a four-lane to two-lane road, for the portion of the road going through the residential section (which could potentially have a traffic calming effect and be safer) of the PUD; the portion going through the commercial section of the PUD would remain a four-lane road. Mr. Harowski also explained that the Planning & Zoning Board had recommended approval of this development agreement and ordinance at their September 22nd meeting.

Mayor MacFarlane opened Public Comment for this item only

Todd Hawkins, 1110 N Lakeshore Blvd. – Mr. Hawkins had a question regarding trees in the development and also proposed that, if a tree were to die in the PUD, there be a period of time where the HOA or the developer would have to replace the tree, not the property owner.

Christina Hawkins. 111- N Lakeshore Blvd. – Mrs. Hawkins had questions about the wastewater pump stations.

Tim Everline, 1012 N Lakeshore Blvd. – Mr. Everline asked if root barriers would be required around trees.

Rick Welch, with Connelly Wicker Inc. (representing the developer) – Mr. Welch explained that the developer would be following the Town's code as it relates to trees and root barriers.

Mayor MacFarlane closed Public Comment and opened Councilor Comment for this item.

Councilor Miles had questions about the size of the Right-of-Way (ROW) around the spine road, walking paths on both side of the spine road, and what was the allowed impervious coverage in the current developer's agreement. Councilor Miles stated that he did not like the elimination of the emergency access via Mare Avenue and that he did not like the fact that the spine road was going from four lanes to two lanes. Councilor Miles stated that, for those reasons, he would be voting against the Ordinance and revised Developer's Agreement.

Councilor Lehning did not like the concept of a two-lane spine road and preferred the four-lane spine road.

Mayor MacFarlane stated that she was in support of the spine road being a two-lane road, as it would have a calming effect on traffic. Mayor MacFarlane also stated that the Planning & Zoning Board had done their due diligence reviewing the plans and that they had recommended the proposed changes.

Motion made by Councilor Miles to deny; seconded by Councilor Lehning.

Voting

Yea: Councilor Miles, Councilor Lehning Nay: Mayor MacFarlane

OLD BUSINESS

None

NEW BUSINESS

4. Consideration and Approval: Appointment of Alan Hayes to the Planning and Zoning Board

Mayor MacFarlane explained that Mr. Hayes was not in attendance because he owned a home down in the Ft. Myers area and had gone to survey it after hurricane Ian had gone through that area. Mayor MacFarlane suggested that this item be deferred to the next Town Council meeting since Mr. Hayes was not in attendance.

Motion made by Councilor Miles to defer this item to the next meeting; seconded by Councilor Lehning. Motion approved unanimously by voice vote.

Voting Yea: Councilor Miles, Councilor Lehning, Mayor MacFarlane

Nay: None

5. Consideration and Approval: Howey Self Storage Final Site Plan Submission

Mayor MacFarlane asked Town Planner, Tom Harowski, to introduce and explain this item. Mr. Harowski stated that Howey Self Storage was part of the Reserve PUD. Mr. Harowski stated that the developer would have 18 months after approval to begin construction. Mr. Harowski also stated that the Planning & Zoning Board had reviewed this submitted site plan at their September 22nd meeting and had recommended the Final Site Plan to Town Council.

Mayor MacFarlane opened the Public Comment for this item only.

Peter Tuite, 300 E Croton Way – Mr. Tuite asked if the Self-Storage site would be allowed to visibly park rusty cars, boats, or RVs.

Mayor MacFarlane closed Public Comment and opened Councilor Comment for this item.

Motion made by Councilor Miles to approve the Howey Self Storage Final Site Plan Submission; seconded by Councilor Lehning. Motion approved unanimously by roll-call vote.

Voting Yea: Councilor Miles, Councilor Lehning, Mayor MacFarlane Nay: None

6. Discussion: Retired Landfill Historic Overview

Mayor MacFarlane asked Town Manager, Sean O'Keefe, to introduce and explain this topic. Mr. O'Keefe gave his PowerPoint presentation on the Town's retired landfill. The presentation included the history of the landfill and possible uses of the parcel.

Councilor Miles stated that he believes that the town has a lack of recreational space, and he would like to see the old landfill turned into a baseball field or soccer field. Councilor Miles also said that discussions had occurred with the Simpson developers and that they may have excess landfill dirt that they could put into the pit at the landfill. Councilor Miles would like the Town Manager to engage a company to do some soil sampling to discover if the land is safe to develop into park land or recreational area.

Mayor MacFarlane opened the Public Comment for this item only.

Peter Tuite, 300 E Croton Way – Mr. Tuite was concerned about the potential Simpson development creating impervious areas that would cause runoff into the landfill parcel.

Todd Hawkins, 1110 N Lakeshore Blvd. – Mr. Hawkins does not think that the Town should trade approval of a 250-unit housing development to get access to a park or recreational area.

Mayor MacFarlane closed Public Comment.

Mr. O'Keefe stated that he has presented the documents about the landfill to the Town Engineer and the Town Engineer will review those documents and discuss next steps.

7. Consideration and Approval: Fencing around Town Lift Stations in Central Park and Griffin Park

Mayor MacFarlane asked Town Manager, Sean O'Keefe, to introduce and explain this topic. Mr. O'Keefe explained that, prior to the meeting, the Public Works Director only had time to get a quote from one vendor for fencing around the lift stations. That quote came in at \$7,126 for the two fences; at least two other quotes would have to be acquired prior to erecting fencing per the Town's Purchasing Policy if the Council chooses to go forward with this project. Mr. O'Keefe stated that the Public Works Director was satisfied with the current security measures at both lift stations, as they meet the current FDEP guidelines for security. The Public Works Director does recommend for that the erection of concrete bollards or safety barricades for protection of the lift station on S Lakeshore Blvd.

Councilor Lehning would like to see at least two more quotes for fencing before making a decision.

Councilor Miles agrees that we should add the bollards to the S. Lakeshore Blvd lift station, and he still would like fences erected around both lift stations. Councilor Miles believes physical security of the two lift stations is very important.

Motion made by Councilor Lehning to defer this item for more estimates; seconded by Mayor MacFarlane. Motion was approved unanimously by roll call vote.

Voting Yea: Councilor Miles, Councilor Lehning, Mayor MacFarlane Nay: None

DEPARTMENT REPORTS

8. Town Hall

Town Manager, Sean O'Keefe, explained that the Town Hall report was attached in the meeting's packet for the Councilors review. Mr. O'Keefe explained that Town Clerk, John Brock, was not in attendance at the meeting because he was attended the Florida Association of City Clerks' (FACC) annual training conference.

9. Police Department

Chief Thomas stated that the Town had recently had an unattended death and a heroin drug overdose. Two of the Town's officers had responded to the drug overdose and they administered Narcan and administered CPR which brought the gentleman back to life. The two officers received letters of commendation for their life-saving measures.

Chief Thomas thanked the Town's Sunoco store for reserving gasoline and water for the Town's Police Department and Public Works Department during Hurricane Ian. Chief Thomas also thanked the Mission Inn for reserving some rooms for the Town's Police Officers that were on emergency duty. Lastly, Chief Thomas thanked the Howey Market for getting four pizzas for the officers that were on shift during Hurricane Ian.

10. Code Enforcement

Code Enforcement Officer, Azure Botts, stated that the next Special Magistrate hearing would be on October 27th at 10 am.

11. Public Works

Public Utilities Supervisor, James Southall, explained that the Public Works and Public Utilities reports were included in the meeting's packet. Mr. Southall also added that the cleanup efforts at the Sara Maude Mason Nature Preserve (SMMNP) were ongoing and that the boardwalk and nature trail were currently closed due to trees going down that needed to be removed. Mr. Southall also explained that there was extensive damage at the SMMNP boardwalk due to Hurricane Ian.

12. Library

Library Director, Tara Hall, stated that the library report was attached to the meeting's packet. Mrs. Hall also explained that the library would be starting a 5-part series called "Living Your Best Life" in October. This series was designed for older adults and caretakers.

13. Parks & Recreation Advisory Board / Special Events

Nothing to report.

14. Town Attorney

Nothing to report.

15. Finance Department

Finance Supervisor, Abigail Herrera, stated that the monthly financial report was also attached to the meeting's packet. Mrs. Herrera made one disclosure that the Finance Department was still working on year-end numbers.

16. Town Manager

Town Manager, Sean O'Keefe, reminded attendees about upcoming events including the Town's Halloween Bash. Mr. O'Keefe thanked Public Works, Police Department and Code Enforcement Officer Botts for their work in the management of Hurricane Ian. Mr. O'Keefe also explained that storm debris removal was still ongoing and would continue until the entire town was picked up.

Mr. O'Keefe also spoke about a Major Development Summary that was recently updated and it was available online. Mayor MacFarlane suggested that the Development Summary report should be made easier to find on the website, rather than just including it in the meeting's packet.

COUNCIL MEMBER REPORTS

17. Mayor Pro Tem Gallelli

Not in attendance, nothing to report.

18. Councilor Lehning

Councilor Lehning thanked everyone in the audience for showing up. Councilor Lehning asked Sean O'Keefe to explain how PUDs were approved. Councilor Lehning would like to have future discussions on annexation. Councilor Lehning also would like the Town to acquire marketing services to help encourage commercial development within the Town.

19. Councilor Miles

Councilor Miles would like the Town Engineer to give a presentation on the Town's wastewater lift stations and sewer lines to the Town Council. Councilor Miles also questioned why the newer homes on S Florida Ave were not required to connect to the sewer. Councilor Miles would like the Town Manager to look into any state requirements requiring parcels with close proximity to hook up to sewer.

20. Councilor Klein

Not in attendance, nothing to report.

21. Mayor MacFarlane

Mayor MacFarlane believes that the Town needs to look for Septic to Sewer grants. Mayor MacFarlane reminded the audience about the Town's Christmas Festivities, including the Christmas Parade and Car Show. Mayor MacFarlane asked Councilor Lehning if he would be willing to assist with the Christmas Car Show like he did the year before. Councilor Lehning stated that we would assist with the Christmas Car Show again.

Mayor MacFarlane also spoke about how the Town would be trying to get appropriations from the State and would be working to submit legislative bills into the Florida Legislature to help fund the Town new

well and water treatment facilities. Mayor MacFarlane asked the residents that were in attendance to help participate in the appropriations process.

PUBLIC COMMENTS

Any person wishing to address the Mayor and Town Council and who is not on the agenda is asked to speak their name and address. Three (3) minutes is allocated per speaker.

Tim Everline, 1012 N Lakeshore Blvd. – Mr. Everline read aloud selections from the Town's Development Summary, and he was not in favor of future developments with smaller lot lines.

ADJOURNMENT

There being no further business to discuss, a motion was made by Councilor Lehning to adjourn the meeting; Councilor Miles seconded the motion. Motion was approved unanimously by voice vote.

The Meeting adjourned at 8:24 p.m. | Attendees: 33

ATTEST:

Mayor Martha MacFarlane

John Brock, Town Clerk



TMHConsulting@cfl.rr.com 97 N. Saint Andrews Dr. Ormond Beach, FL 32174 PH: 386.316.8426

MEMORANDUM

TO:	Howey-in-the-Hills Town Council
CC:	J. Brock, Town Clerk
FROM:	Thomas Harowski, AICP, Planning Consultant
SUBJECT:	469 Avila Way Variance Request
DATE:	October 4, 2022

The applicant is requesting relief from the requirement that swimming pools and pool decks be setback ten (10) feet from rear property lines (Section 5.01.08 B). The applicant has submitted a statement explaining why the requested variance is needed and how the variance is justified. The applicant was initially seeking a variance of four feet to allow the pool and pool deck to extend within six feet of the rear property line.

The Planning Board reviewed this application at their regular meeting of September 22, 2022 and recommended a variance of three feet to allow the pool to be constructed seven feet from the rear property line. The discussion of the application at the board meeting resulted in a modification of the proposal to move the pool one foot further from the property line, and the applicant has submitted a revised survey showing the pool location seven feet from the property line. The Planning Board conditioned their recommendation on the prohibition of any fill being placed in the utility and drainage easement and the required trees be relocated from the proposed pool area or replaced elsewhere on the lot. These conditions appeared to be acceptable to the applicant, and the applicant has submitted a letter from the pool company confirming the redesign as well.

The subject property is located within the Talichet Subdivision located off South Florida Avenue, and the house is a newly constructed residential unit. Avila Way is a loop street that runs through the length of the subdivision. The subject property is located at the closed end of the loop making the lot what is effectively a corner lot. (Refer to the attached location map.) The applicant has submitted a survey showing the lot and position of the existing house on the property. The survey shows a five-foot drainage and utility easement extending across the full width of the rear property line. The applicant submitted a proposed design for the pool and pool deck with the application form showing a portion of the pool and pool deck extending into the required rear yard setback by up to four feet at the deepest penetration. Based on the Planning Board action, the applicant submitted a revised survey showing the positioning of the pool on the lot. The applicant has stated several factors which are offered in support of the request. These include:

- There is insufficient space to accommodate the pool
- · Five-foot setbacks are typical in most communities
- A narrower pool does not meet needs
- They want to maximize the use of the property

As stated previously a variance stands on its own merits. Prior variances should have no effect on the current case. Each variance is supposed to address a specific hardship unique to the property that does not allow the property to be developed in full compliance with the code unless some relief is granted.

The land development regulations set out a series of criteria to evaluate requests for variances in Section 4.13.04. These criteria are listed below:

4.13.01 Standards in Granting a Variance

The Board of Adjustment may authorize a variance from the terms of this LDC as will not be contrary to the public interest where, owing to special conditions, a literal enforcement of the provisions of this Code will result in unnecessary and undue hardship. In authorizing a variance from the terms of this LDC, the Board of Adjustment shall find:

- A. That special conditions and circumstances exist which are peculiar to the land, structure or building involved, and which are not applicable to other lands, structures, or buildings in the same zoning district,
- B. That the special conditions and circumstances do not result from the actions of the applicant,
- C. That literal interpretation of the provisions of this LDC would deprive the applicant of rights commonly enjoyed by other properties in the same zoning district under the terms of this LDC and would work unnecessary and undue hardship on the applicant,
- D. That the variance created is the minimum variance that will make possible the reasonable use of the land, building or structure, and
- E. That the granting of the variance will be in harmony with the general intent and purpose of this LDC and that such variance will not be injurious to the area involved or otherwise detrimental to the public welfare.
- F. In granting any variance, the Board of Adjustment may prescribe appropriate conditions and safeguards in conformity with this LDC. Violation of such conditions and safeguards, when made a part of the terms under which the variance is granted, shall be deemed a violation of this LDC.

Summary

Technically the request does not meet all of the criteria for approval of the requested variance, however, onstruction of the pool and deck as proposed is in harmony with the use of the property as a single-family home and with the neighborhood

in general. As noted above, the discussion of the case at the public meeting led to a recommendation from the Planning Board to approve a lesser variance than requested, and the applicant has concurred with the Planning Board recommendation. The Planning Board recommendation is as follows:

Approve a variance of three feet from the required ten foot rear yard setback to allow construction of a swimming pool and pool dect to extend to a point seven feet from the rear property line, provided not fill is placed in the five-foot drainage and utility easement and that any require trees impacted by the construction be relocated or replaced elsewhere on the lot.

469 Avila Location Map



August 18, 2022

pointLayer



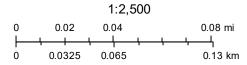
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Override 1

County Boundary

- Surrounding Counties Street Names Subdivision Lot Numbers Address Locations
 - Property Name

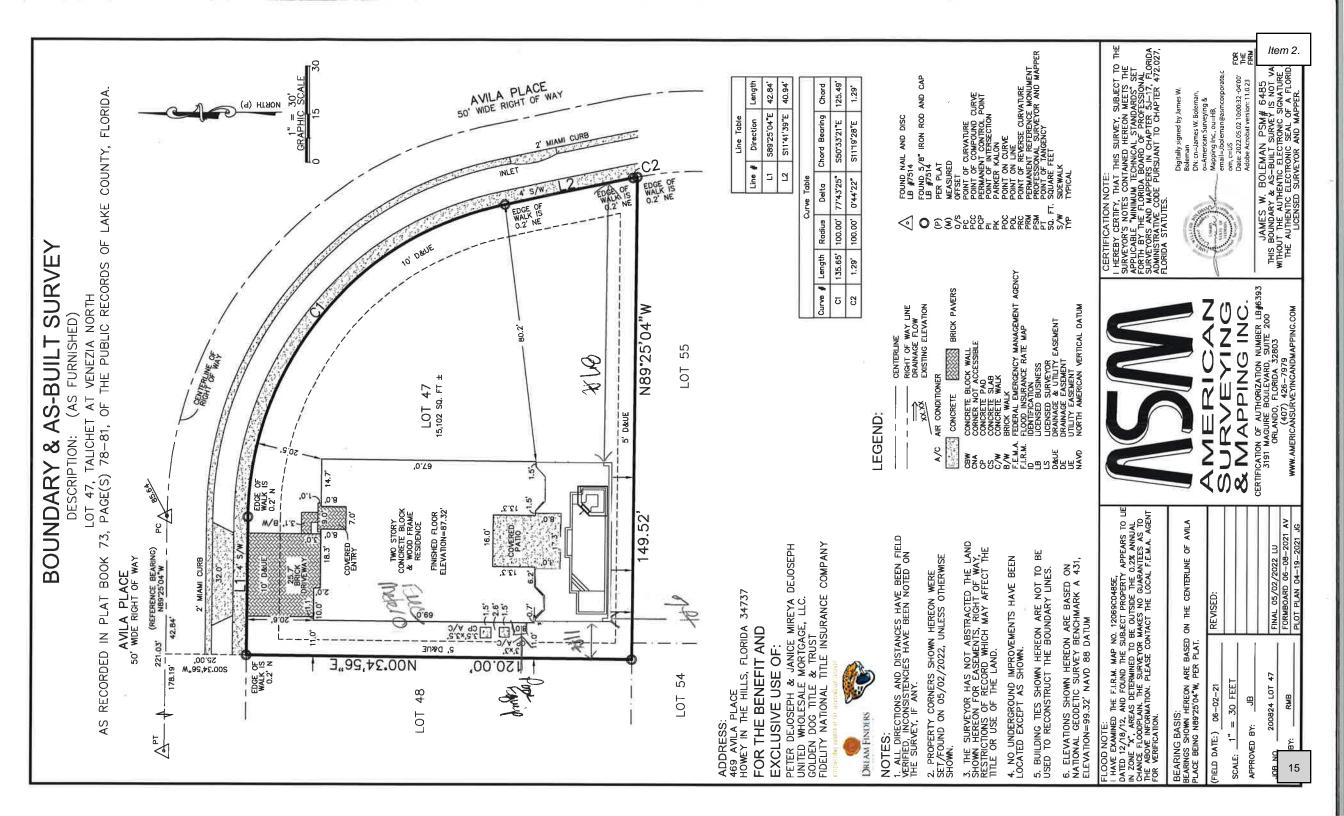
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Lake County Property Appraiser Lake BCC

14

Item 2.



October 4, 2022 Regarding: Peter and Janice DeJoseph 469 Avila Pl Howey-in-The-Hills, Fl 34737 Pool variance

To whom it may concern,

As discussed in the recent planning and zoning meeting, the committee approved the variance request if the encroachment into the easement was reduced from 4 feet to 3 feet. We have spoken to the pool company and have made these arrangements by reducing the width of the pool, new survey has been supplied.

Please let me know if any further information is needed before the meeting on October 12th.

Sincerely,

Peter DeJoseph

561-312-4017



185 E. Airport Blvd – Sanford, FL 32773

September 26 2022

RE: Pool Construction Information

To: Janice and Peter DeJoseph

469 Avila Place

Howey- In - Hills, FL. 34737

Dear Janice and Peter-

I am getting in touch in regard to your pool build and the area of the pool in relation to your lanai.

To maintain the structural integrity of the patio we would not be able to come any closer than where the pool is placed currently, however, at your suggestion for an alternate building plan, I have made the pool and deck area 1 ft narrower. This change makes the distance from the back of the pool deck to the rear property line 7 ft-

I also wanted to confirm that the retention wall that is placed behind the pool will have drainage between the retention wall and pool edge.

I understand that the trees in the pool area will be relocated.

Please let me know if there are any other questions in regard to your pool plans.

Best,

Debra

Design Consultant/All Seasons Pools

407-402-2325

debra@allseasonspools.com

ltem 2.



TMHConsulting@cfl.rr.com 97 N. Saint Andrews Dr. Ormond Beach, FL 32174 PH: 386.316.8426

MEMORANDUM

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The applicant is requesting relief from the requirement that swimming pools and pool decks be setback ten (10) feet from rear property lines (Section 5.01.08 B). The applicant has submitted a statement explaining why the requested variance is needed and how the variance is justified. The applicant is seeking a variance of four feet to allow the pool and pool deck to extend within six feet of the rear property line.

The subject property is located within the Talichet Subdivision located off South Florida Avenue, and the house is a newly constructed residential unit. Avila Way is a loop street that runs through the length of the subdivision. The subject property is located at the closed end of the loop making the lot what is effectively a corner lot. (Refer to the attached location map.) The applicant has submitted a survey showing the lot and position of the existing house on the property. The survey shows a five-foot drainage and utility easement extending across the full width of the rear property line. The applicant submitted a proposed design for the pool and pool deck with the application form showing a portion of the pool and pool deck extending into the required rear yard setback by up to four feet at the deepest penetration. The applicant submitted a survey showing the positioning of the pool on the lot and a graphic showing the pool design.

The applicant has stated several factors which are offered in support of the request. These include:

- There is insufficient space to accommodate the pool
- · Five-foot setbacks are typical in most communities
- A narrower pool does not meet needs
- They want to maximize the use of the property

As stated previously a variance stands on its own merits. Prior variances should have no effect on the current case. Each variance is supposed to address a specific hardship unique to the property that does not allow the property to be developed in full compliance with the code unless some relief is granted.

Analysis

The land development regulations set out a series of criteria to evaluate requests for variances in Section 4.13.04. These criteria are listed below:

4.13.01 Standards in Granting a Variance

The Board of Adjustment may authorize a variance from the terms of this LDC as will not be contrary to the public interest where, owing to special conditions, a literal enforcement of the provisions of this Code will result in unnecessary and undue hardship. In authorizing a variance from the terms of this LDC, the Board of Adjustment shall find:

- A. That special conditions and circumstances exist which are peculiar to the land, structure or building involved, and which are not applicable to other lands, structures, or buildings in the same zoning district,
- B. That the special conditions and circumstances do not result from the actions of the applicant,
- C. That literal interpretation of the provisions of this LDC would deprive the applicant of rights commonly enjoyed by other properties in the same zoning district under the terms of this LDC and would work unnecessary and undue hardship on the applicant,
- D. That the variance created is the minimum variance that will make possible the reasonable use of the land, building or structure, and
- E. That the granting of the variance will be in harmony with the general intent and purpose of this LDC and that such variance will not be injurious to the area involved or otherwise detrimental to the public welfare.
- F. In granting any variance, the Board of Adjustment may prescribe appropriate conditions and safeguards in conformity with this LDC. Violation of such conditions and safeguards, when made a part of the terms under which the variance is granted, shall be deemed a violation of this LDC.

For the current application the staff evaluation is as follows:

- A. There is nothing unique about the subject lot in the Talichet Subdivision. The size and placement of the house on the lot determines the available rear yard area rather than any physical trait of the lot.
- B. The pool design is not overly large with most of the key features arranged along the house rather than projecting away from the house. However, the survey seems to indicate that the pool could be shifted closer to the house by integrating some of the current patio area into the pool desck design. This would further minimize or eliminate the need to extend into the required rear yard.
- C. A literal interpretation of the code does not prohibit the construction of a pool, but would require some shifting or minor redesign of the pool.

- D. The proposed minimum variance of four feet is not essential to allow construction of the pool. The proposed design does avoid the the drainage and utility easement that runs along the rear lot line. However, shoould the Planning Board elect to recommend the variance to Town Council, the Planning Board should include a provision that no grade change be done which impacts the five-foot utility and drainage easement.
- E. The approval of the proposed design is in harmony with the general intent of the code. Approval of the variance and construction of the pool and pool deck is consistent with standard residential use of the property and would have no apparent impact to other properties.
- F. If any required trees trees will need to be removed or relocated to permit construction of the pool, the trees will need to be relocated or replaced. These trees are part of the minimum landscape requirement and the trees either need to be transplanted or replaced with trees meeting the code minimum. If the trees are transplanted and then die, they must be replaced. Should the Planning Board recommend approval of the variance to Town Council, the tree relocation or replacement requirement should be recommended as a condition of approval.

Summary

Technically the request does not meet all of the criteria for approval of the requested variance Construction of the pool and deck as proposed is in harmony with the use of the property as a single-family home and with the neighborhood in general, but the application has not demonstrated any hardship linked to the property. Should the Planning Board elect to recommend the variance to Town Council, approval of the variance should be a maximum of four feet into the required rear yard and require relocation or replacement of the trees in the proposed pool area. The Board should also prohibit any grade change from fill or other action that impacts the five-foot drainage and utility easement.



VARIANCE APPLICATION Howey-in-the-Hills

Item 2.

PLEASE PRINT LEGIBLY

Property Owner (if there are multiple owners, please provide all the information on the attached ownership list):

Property Owner's Contact Information (If multiple owners, please provide mailing address, daytime phone, and fax and/or email for each owner):

First Owner:

WITCH.	
Mailing Address:	HUG AVITORPI HOURINHEHITS
Daytime Phone:	561-685-2292
Fax and/or Email:	Devosb3 (2) hotmail-com

Second Owner:

Mailing Address: _

Daytime Phone:

Fax and/or Email: _

If more than two owners, please attach additional information.

Applicant (If different from owner):

Mailing Address: _____

Daytime Phone:

Fax and/or Email: ____

If the Applicant does not own the property, or is not the sole owner, please complete the Authorized Agent Affidavit form, attached.

If the Applicant is Not the Owner of the Property, is the Applicant:

- _____ A Tenant
- _____ An Authorized Agent for the Owner
- _____ Other (please explain): ___

Property's Physical Address: <u>MU9 AV 10 Place</u> Housey in the Hi The attached Verified Legal Description Form must also be completed as part of the application.

A survey of the property, showing all current improvements on the site, to scale, is required as part of the application submittal. The survey can be no larger than 11" X 17" in size.

An additional copy of the survey or a site plan drawn to scale should be included as part of the application which specifically shows any improvements that are being requested as part of the variance. Again, this site plan can be no larger than 11" X 17" in size.

Property Information: Tax Parcel ID: 2630-25-0010 Alt Key #: Please identify below the current land uses located on the site and all adjacent properties. For example, land uses would be identified as single family home, office, grocery store, etc. Subject Site: LOT H 4 HLOG L Adjacent property to the North: Adjacent property to the South: Adjacent property to the East: Adjacent property to the West: Does the property currently have: Town Water: YES NO Central Sewer: YES NO Potable Water Well: YES NO Septic Tank: YES -NO

How long has the current owner owned the property? 5ince H a care and a constant of the current owner between the property tax records or other documentation to verify how long the current owner has owned the property.

What specific Code requirement is the applicant seeking a variance from?

What, in the applicant's point of view, are the specific special conditions or circumstances that exist on the property?

What, in the applicant's point of view, is the unnecessary and undue hardship that exists to provide justification for the variance?

The applicant should provide any additional information that may be helpful to the Town in rendering a decision on the requested variance.

Additional information may be necessary. The applicant is required to provide a daytime telephone number where he/she can be reached.

The applicant is required to provide the names and mailing addresses of all property owners within 300 feet of the subject property, in the form of mailing labels. Three (3) sets of labels are required. These names and addresses may be obtained from the Lake County Property Appraiser's Office.

The Town will also provide a sign which must be posted on the subject property, visible from the adjacent right-of-way or road access. The sign must be posted at least one week prior to the Planning and Zoning Board meeting where this application will be on the agenda and the sign must remain posted until the Town Council public hearing.

A \$400 application fee is due and payable at the time this application is submitted to the Town. In addition to this application fee, a \$1,000 review deposit is required. By signing this application, the applicant acknowledges that the \$400 application fee covers advertising costs, mailings, and the time spent on the application by the Town Clerk. The applicant also acknowledges by his/her signature below that he/she understands he or she will be responsible for any additional costs that the Town incurs as a result of having Town consultants review the application. Once those additional costs are paid by the applicant, the Town will return the balance of the \$1,000 review deposit to the applicant. By signing this application, the applicant also acknowledges that he/she understands that variances expire if not acted upon within the timeframes outlined in the Town's Land Development Regulations.

Witnesses:

Signature

Valco Print Name

eslie 40

Signature 1Va Print Name

Applicant: Signature eter e Print Name



Authorized Agent Affidavit

STATE OF FLORIDA COUNTY OF LAKE

Before me, the undersigned authority, this day personally appeared ______ hereinafter "Owner", and ______ hereinafter "Applicant", who, being by me first duly sworn, upon oath, depose and says:

- 1. The Applicant is the duly authorized representative of the Owner, on the real property as
- described and listed on the pages attached to this affidavit and made a part of hereof.2. That all Owners have given their full and complete permission for the Applicant to act in their behalf as set out in the accompanying application.
- 3. That the attached ownership list is made a part of the Affidavit and contains the legal description(s) for the real property, and the names and mailing addresses of all Owners having an interest in said land.

FURTHER Affiant(s) sayeth not.

Sworn to and subscribed before me this 16 th day of Augus f, 20 22chatel Notary Public State of Florida Chiragkumar Patel My Commission HH 297066 Expires 8/3/2026 Notary Public State of Florida at Large My Commission Expires: 08/03/2026 Sworn to and subscribed before me this 16th day of August, 2022 Mouto Notary Public State of Florida at Large My Commission Expires: 08/03/2026 Sworn to and subscribed before me this Notary Public State of Florida Chiragkumar Patel My Commission HH 297066 day of , 20 Owner Expires 8/3/2026 Notary Public State of Florida at Large My Commission Expires: Sworn to and subscribed before me this _ day of _ _, 20_ Owner

Notary Public State of Florida at Large My Commission Expires: ____ Please hand deliver completed application and fee to:

Town Clerk Town of Howey in the Hills 101 N. Palm Avenue Howey in the Hills, FL 34737

Please make application fee and review deposit checks payable to the Town of Howey in the Hills.

The Town Clerk may be reached at 352-324-2290 or by visiting Town Hall during normal business hours.

FOR TOWN CLERK OFFICE USE ONLY			
Date Received:			
 3 sets of labels attached? current survey attached? site plan attached showing proposed improvements? verified legal description form attached? authorized agent affidavit attached? ownership list attached? 			
APPLICATION NO.			
Reviewed and Accepted By:			
Provided to Town Planner on:			
Planning & Zoning Board meeting date:			
Town Council meeting date:			

PROPERTY RECORD CARD

Name:	DE JOSEPH PETER & JANICE M	Alternate Key:	3922840
Mailing Address:	469 AVILA PL HOWEY IN THE HILLS, FL 34737 <i>Update Mailing Address</i>	Parcel Number: 0	26-20-25-0010- 000-04700
		Millage Group and City:	000H Howey in the Hills
		2021 Total Certified Millage Rate:	20.7552
		Trash/Recycling/Water/Info:	<u>My Public Services</u> <u>Map</u> ()
Property Location:	469 AVILA PL HOWEY IN THE HILLS FL, 34737	Property Name:	 <u>Submit Property</u> <u>Name</u> ()
	Update Property Location ()	School Information:	School Locator & Bus Stop Map School Boundary Maps
Property Description:	TALICHET AT VENEZIA 456	NORTH PB 73 PG 78-81 LOT	47 ORB 5951 PG

NOTE: This property description is a condensed/abbreviated version of the original description as recorded on deeds or other legal instruments in the public records of the Lake County Clerk of Court. It may not include the Public Land Survey System's Section, Township, Range information or the county in which the property is located. It is intended to represent the land boundary only and does not include easements or other interests of record. This description should not be used for purposes of conveying property title. The Property Appraiser assumes no responsibility for the consequences of inappropriate uses or interpretations of the property description.

Land Data

Lin	e Land Use	Frontage	Depth Note	s No. Units	Туре	Class Value	Land Value
1	VACANT RESIDENTIAL (0000)	0	0	1.000	Lot	\$0.00	\$50,000.00
Click here for Zoning Info			E	EMA Floo	od Ma	ap	

Miscellaneous Improvements

There is no improvement information to display.
Sales History
NOTE: This section is not intended to be a complete chain of title. Additional official book/page numbers may be listed in the property description above and/or rec indexed with the Clerk of Court. Follow this link to search all documents by owner's name.

Book/Page	Sale Date	Instrument	Qualified/Unqualified	Vacant/Improved	Sale Price
<u>5951 / 456</u>	04/2022	Warranty Deed	Qualified	Improved	\$445,600.00
5706 / 863	05/2021	Warranty Deed	Qualified	Vacant	\$567,000.00
Click here to s	search for mo	ortaades liens an	d other legal documents.		

corded and

Values and Estimated Ad Valorem Taxes o

Values shown below are 2022 CERTIFIED VALUES. The Market Value listed below is not intended to represent the anticipated selling price of the property and should not be relied upon by any individual or entity as a determination of current market value.

Tax Authority	Market Value	Assessed Value	Taxable Value	Millage	Estimated Taxes
LAKE COUNTY BCC GENERAL	\$50,000	\$50,000	\$50,000	5.0529	\$252.65

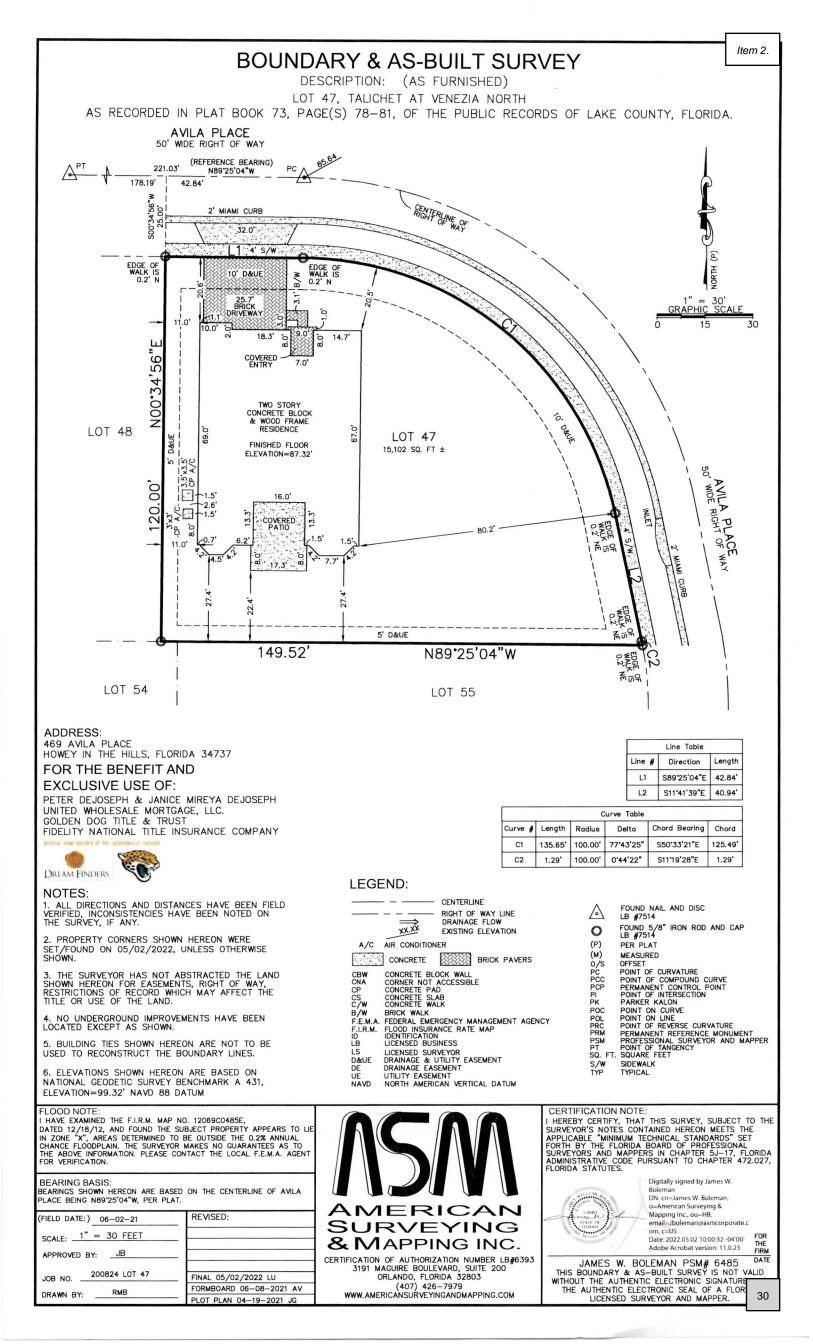
					Total: 20.7552	Total: \$1,037.78
LAKE	COUNTY MSTU FIRE	\$50,000	\$50,000	\$50,000	0.5138	\$25.69
LAKE	E COUNTY VOTED DEBT VICE	\$50,000	\$50,000	\$50,000	0.0918	\$4.59
	E COUNTY MSTU ULANCE	\$50,000	\$50,000	\$50,000	0.4629	\$23.15
TOW	N OF HOWEY IN THE HILLS	\$50,000	\$50,000	\$50,000	7.5000	\$375.00
	OHNS RIVER FL WATER IT DIST	\$50,000	\$50,000	\$50,000	0.2189	\$10.95
NOR	TH LAKE HOSPITAL DIST	\$50,000	\$50,000	\$50,000	0.0000	\$0.00
	E COUNTY WATER HORITY	\$50,000	\$50,000	\$50,000	0.3229	\$16.15
SCH	OOL BOARD LOCAL	\$50,000	\$50,000	\$50,000	2.9980	\$149.90
SCH	OOL BOARD STATE	\$50,000	\$50,000	\$50,000	3.5940	\$179.70
FUNI	D					

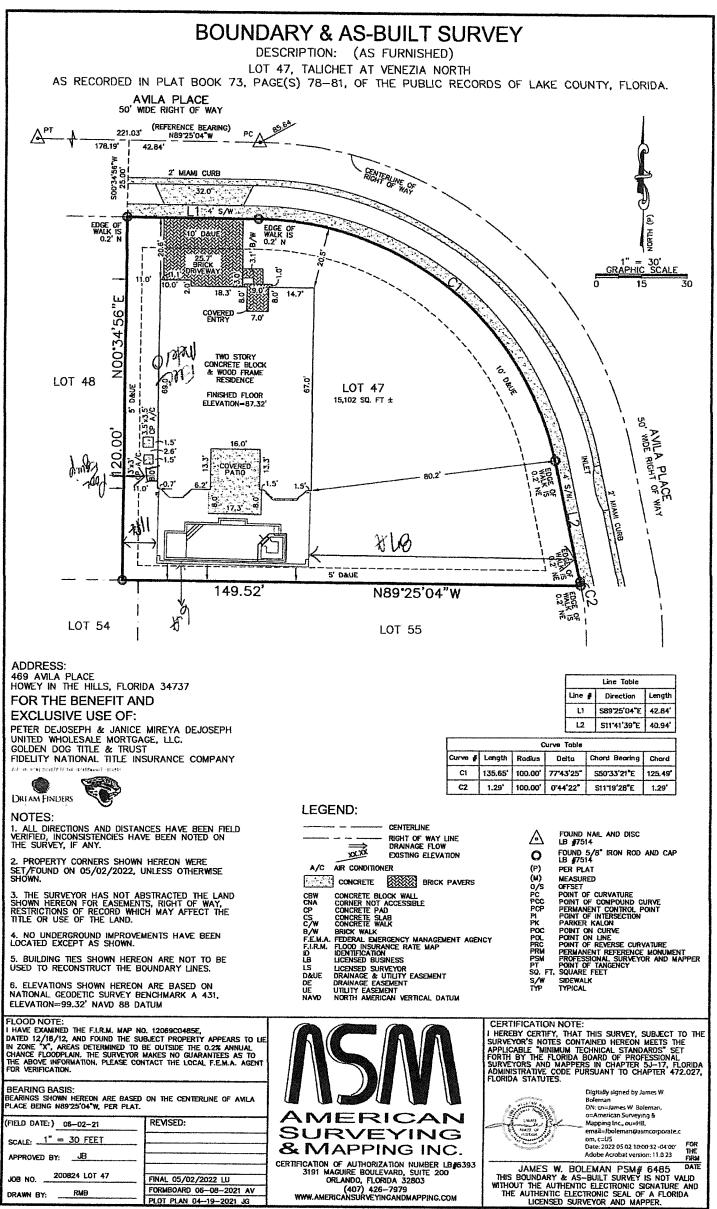
Exemptions Information

This property is benefitting from the following exemptions with a checkmark \checkmark

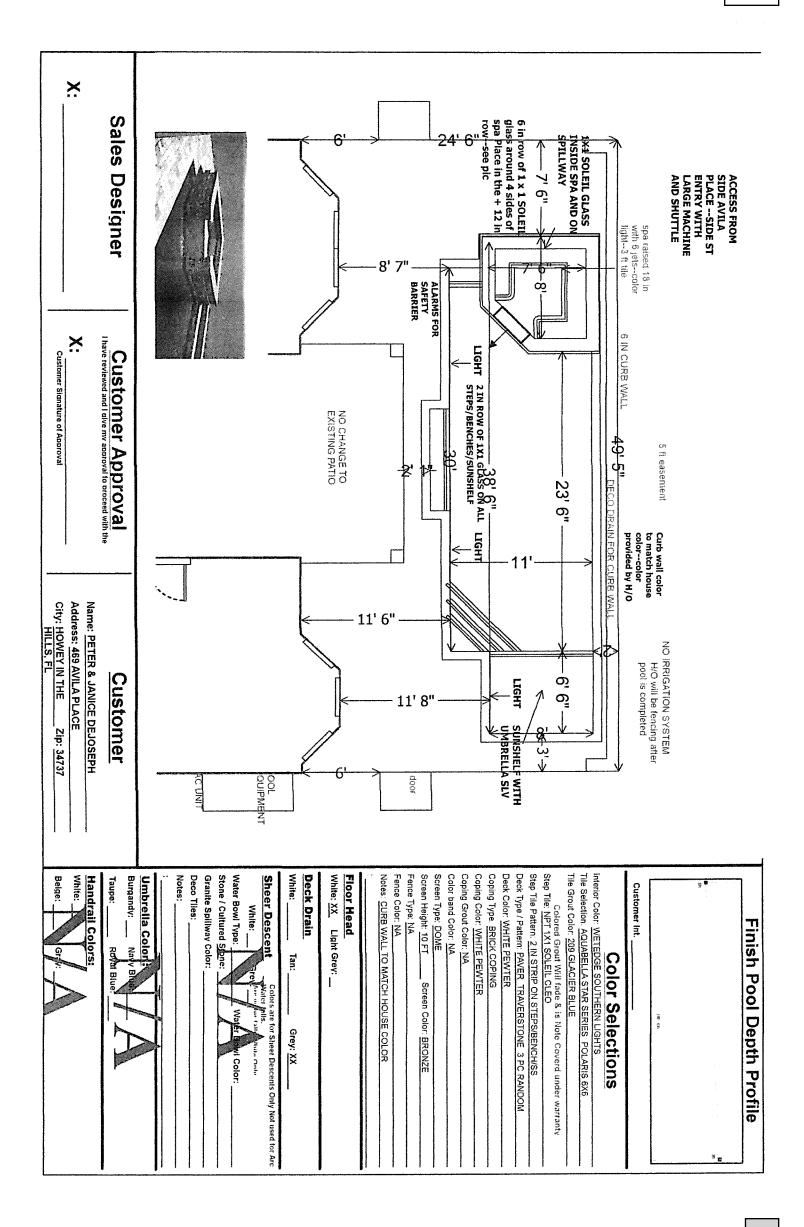
Homestead Exemption (first exemption up to \$25,000)	Learn More	View the Law	
Additional Homestead Exemption (up to an additional \$25,000)	Learn More	View the Law	
Limited Income Senior Exemption (applied to county millage - up to \$50,000)	<u>Learn More</u>	<u>View the Law</u>	
Limited Income Senior Exemption (applied to city millage - up to \$25,000) (Learn More	View the Law	
Limited Income Senior 25 Year Residency (county millage only-exemption amount varies)	Learn More	View the Law	
Widow / Widower Exemption (up to \$500)	Learn More	View the Law	
Blind Exemption (up to \$500)	Learn More	View the Law	
Disability Exemption (up to \$500)	Learn More	View the Law	
Total and Permanent Disability Exemption (amount varies)	Learn More	View the Law	
Veteran's Disability Exemption (\$5000)	Learn More	View the Law	
Veteran's Total and Permanent Disability Exemption (amount varies)	Learn More	View the Law	
Veteran's Combat Related Disability Exemption (amount varies)	Learn More	View the Law	
Deployed Servicemember Exemption (amount varies)	Learn More	View the Law	
First Responder Total and Permanent Disability Exemption (amount varies)	Learn More	View the Law	
Surviving Spouse of First Responder Exemption (amount varies)	<u>Learn More</u>	<u>View the Law</u>	
Conservation Exemption (amount varies)	<u>Learn More</u>	<u>View the Law</u>	
Tangible Personal Property Exemption (up to \$25,000)	<u>Learn More</u>	<u>View the Law</u>	
Religious, Charitable, Institutional, and Organizational Exemptions (amount varies)		<u>View the Law</u>	
Economic Development Exemption	Learn More	View the Law	
Government Exemption (amount varies)	<u>Learn More</u>	<u>View the Law</u>	

NOTE: Information on this Property Record Card is compiled and used by the Lake County Property Appraiser for the sole purpose of ad valorem property tax assessment administration in accordance with the Florida Constitution, Statutes, and Administrative Code. The Lake County Property Appraiser makes no representations or warranties regarding the completeness and accuracy of the data herein, its use or interpretation, the fee or beneficial/equitable title ownership or encumbrances of the property, and assumes no liability associated with its use or misuse. See the posted <u>Site Notice</u>.





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ERIC GRAVE 440 AVILA PL HOWEY IN THE HILLS FL, 34737

MARK BISHOP 456 AVILA PL HOWEY IN THE HILLS FL, 34737

EDWIN DIAZ 463 AVILA PL HOWEY IN THE HILLS FL, 34737

ISRAEL VALENTIN 501 AVILA PL HOWEY IN THE HILLS FL, 34737

DERRICK ANDERSON 485 AVILA PL HOWEY IN THE HILLS FL, 34737

CHRISTOPHER BEHAN 492 AVILA PL HOWEY IN THE HILLS FL, 34737

ERIC GRAVE 440 AVILA PL HOWEY IN THE HILLS FL, 34737

MARK BISHOP 456 AVILA PL HOWEY IN THE HILLS FL, 34737

<u>EDWIN DIAZ</u> 463 AVILA PL HOWEY IN THE HILLS FL, 34737

ISRAEL VALENTIN 501 AVILA PL HOWEY IN THE HILLS FL, 34737

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ANDREW HOOTEN 460 AVILA PL HOWEY IN THE HILLS FL, 34737

MATTHEW BEATTY 456 AVILA PL HOWEY IN THE HILLS FL, 34737

ERIX OROVIA 493 AVILA PL HOWEY IN THE HILLS FL, 34737

BRENT MOAKE 476 AVILA PL HOWEY IN THE HILLS FL, 34737

MICHAELNARAINE 500 AVILA PL HOWEY IN THE HILLS FL, 34737

DAVID PECKINS 444 AVILA PL HOWEY IN THE HILLS FL, 34737

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MATTHEW BEATTY 456 AVILA PL HOWEY IN THE HILLS FL, 34737

ERIX OROVIA 493 AVILA PL HOWEY IN THE HILLS FL, 34737

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<u>WILLIE RANDEL</u> 464 AVILA PL HOWEY IN THE HILLS FL, 34737

DIXON RODRIGUEZ 433 AVILA PL HOWEY IN THE HILLS FL, 34737

DAVID ELIAS 489 AVILA PL HOWEY IN THE HILLS FL, 34737

JACK PAVLIK 480 AVILA PL HOWEY IN THE HILLS FL, 34737

CESAL RODRIGUEZ 504 AVILA PL HOWEY IN THE HILLS FL, 34737

LORETTA DARDNO 448 AVILA PL HOWEY IN THE HILLS FL, 34737

<u>WILLIE RANDEL</u> 464 AVILA PL HOWEY IN THE HILLS FL, 34737

DIXON RODRIGUEZ 433 AVILA PL HOWEY IN THE HILLS FL, 34737

DAVID ELIAS 489 AVILA PL HOWEY IN THE HILLS FL, 34737

____09LS

Pat: avery.com/patents

VAERY



TMHConsulting@cfl.rr.com 97 N. Saint Andrews Dr. Ormond Beach, FL 32174 PH: 386.316.8426

MEMORANDUM

TO:	Howey-in-the-Hills Town Council
CC:	S. O'Keefe, Town Manager; J. Brock, Town Clerk
FROM:	Thomas Harowski, AICP, Planning Consultant
SUBJECT:	The Reserve/Hilltop Groves First Amendment to the Development Agreement
DATE:	October 5, 2022

The developers of the residential portion of The Reserve development have asked for an amendment to the approved development agreement to make revisions to the preliminary subdivision plan included as an attachment to the development agreement. Some of these proposed revisions qualify as major amendments under the terms of the adopted PUD agreement, so all the requested changes have been included in the proposal. The applicants have submitted a list of plan adjustments on the updated master site plan map including a number key locating each revision. Other than the change of the collector road from 4-lanes to 2-lanes the proposed revisions result from more detailed design and engineering work to harden the preliminary subdivision design. Approval of the requested changes will clear the way for submittal of the final subdivision plan for the first development phase.

The Town's Development Review Committee reviewed the proposed amendments at their meeting on September 8, 2022 and prepared a list of recommendations for the proposed changes. The Planning Board reviewed the package of revisions at their regular meeting of September 22, 2022 and recommended the amendments to Town Council for approval. The changes are limited to the preliminary subdivision plan with no proposed changes to the text of the development agreement. The proposed revisions include the following items:.

1. The applicants are requesting a revised design for the central collector road, identified as Road A on the preliminary subdivision plan, from four lanes to two lanes through the residential portion of The Reserve development. Most of the portion of Road A through the commercial portion of the project will remain as a four-lane section. In support of the requested change the applicants have submitted an analysis from their traffic engineer documenting that a two-lane road is sufficient to support the projected traffic volumes. The Town engineer has reviewed the request and supports the finding that the two-lane section is adequate for the traffic demand, and that with protected left turn lanes can result in reduced speed and increased safety within the project.

The applicants have noted that the road right-of-way through the commercial area has been increased from 90 feet to 100 feet as shown on the roadway cross-sections. The wider right-of-way is proposed to give more room to fit all the necessary components in the four-lane road section. The intersection with SR 19 has moved south about 250 feet, and driveway connections for the commercial area are shown.

(Refer to map items 2, 3, 4 and 12.)

- 2. The applicants are proposing minor adjustments to Roads D and F and the adjoining lots to reduce the amount of road area and improve safety while still providing access to the adjacent lots. (Refer to map item 1.)
- 3. The applicants are requesting revisions to Roads B and N along with adjacent lots to improve the connection between Phase 2 and Phase 3. This change improves traffic flow and reduces the number of lots on closed-end streets. (Refer to map item 6.)
- 4. The applicants are revising the collector road cross-sections to include the minimum 10-foot bicycle/pedestrian pathway that extends from SR 19 to Number Two Road. This facility has been a commitment of the project, but roadway cross-section submitted prior to this plan did not fully identify the bicycle/pedestrian path. (Refer to the revised cross-sections for the two-lane and four-lane sections.)
- Residential lots along Road AA and Road Z have been changed to the 50 x 115 lot type rather than the originally proposed 50 x 80 lot type. (Refer to map item 8.)
- 6. The staff has asked for the addition of a street crossing detail where the bicycle/pedestrian path crosses a roadway. This detail is intended to limit the opportunity for cars to inadvertently drive on the path. They have agreed to provide a detail.
- 7. The applicants have been requested to update the totals of residential units by type and phase. The changes resulting from the road and engineering design changes have reduced the number of cluster units (4) and townhouse units (7) while increasing the total number of single-family units (11). There is no change to the total number of units. (The revised totals for units by phase are shown on the table on the left side of the master site plan.)
- 8. The applicants have been requested to provide a maximum impervious area for each type of residential unit. The lack of a maximum impervious area has been creating some review issues with our other PUD-based neighborhoods. (The maximum imperious areas by unit type are shown on the table on the left side of the master site plan.)

The Development Review Committee supports these eight revisions to the approved development agreement and the Planning Board recommended the changes to the Town Council.

The revised plan includes several other small adjustments that are noted here as part of the overall amendment. Please note the following revisions:

- The emergency access via Mare Avenue has been removed. The revised street pattern between Phase 2 and Phase 3 will serve this purpose. (Refer to map item 5.)
- The driveway connection to Talichet Phase 2 has been removed as the connection is no longer possible. (Refer to map item 7.)
- A revised roadway connection in Phase 4 has been added. (Refer to map item 9.)
- Stormwater pond locations have been added to Phase 4. (Refer to map item 10.)
- The phase line for Phase 1 has been adjusted. (Refer to map item 11)

During the review, the DRC also agreed that the intersection designs of the primary collector road at SR 19 and Number Two Road will be considered minor amendment to the development agreement as the permitting agencies (FDOT and Lake County) will ultimately be directing the intersection designs. The preliminary subdivision plan will also provide for a driveway connection from the collector road to the Town's public safety parcel at the intersection with the primary collector road. It is expected that this connection will provide an opportunity to reduce fire and police response times to properties within the project.



September 12, 2022

Town of Howey-In-The-Hills Planning & Zoning Dept. 101 N. Palm Avenue Howey-In-The-Hills, FL 34737

RE: Hillside Grove (fka. Reserve at Howey-in-the-Hills) PUD Major Amendment PUD Ordinance 2004-322 CWI Job# 21-04-0008

To whom it may concern,

Please find the following items attached for your review of the above reference project:

- Redlined Master Site Plan
- Typical Section of 90' Right of Way with 2 lanes
- Typical Section of 100' Right of Way with 4 lanes

In addition to the above items, we submit the following summary of the revisions on the attached redlined Master Site Plan from the original approval PUD exhibit. The project has now begun detailed engineering design and a greater level of detail is now shown. Each number below corresponds with a number listed in red on the Master Site Plan

- 1. The roadway alignment has been revised to create a safer condition for both pedestrians and vehicles.
- 2. The entrance roadway connection to S. Palm Drive has shifted south approximately 250'.
- 3. The anticipated driveway apron locations to the commercial area are shown. Previously no driveway aprons were shown.
- 4. The spine road connecting S. Palm Avenue to has been reduced to a two lane section starting at the commercial driveway apron location north to Number 2 Road.
- 5. The emergency access adjacent to a stormwater pond at the north side of the project has been removed.
- 6. A roadway connection is added between phase 2 and phase 3 in lieu of a cul-de-sac in phase 2.
- 7. The driveway apron pictorially shown previously has been removed.
- 8. Lots are revised to be 50'x115' lots in lieu of 50'x80' lots.
- 9. A roadway connection is shown connecting all of phase 4 development.
- 10. Added stormwater management facility locations.
- 11. The phase line revised so that spine road connection to Number 2 Road is included in phase 1.

Item 3.

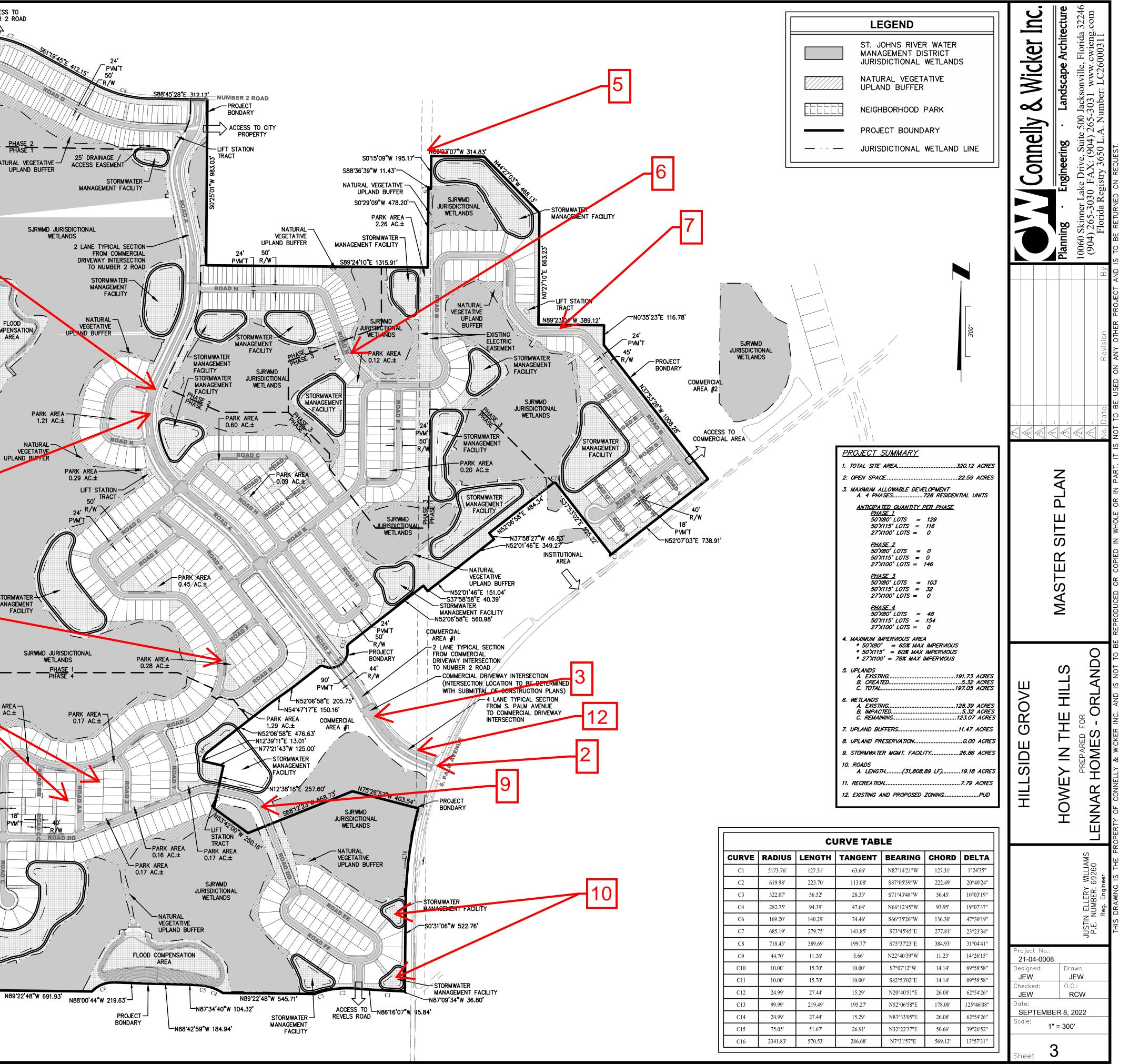
- 12. The right of way between S. Palm Drive to the project boundary is revised to be a 100' wide to allow for additional green space for tree plantings.
- 13. Other minor revisions that are a result of additional progress on detailed design that are not numbered but are identified here are:
 - a. Shifting of lot lines
 - b. Relocation of Pump Stations
 - c. Addition of Natural / Vegetative Upland Buffers
 - d. Pond banks and normal water lines more accurately depicted

We trust this information is sufficient for your review and approval of the PUD modification. Should you have comments or require additional information, please feel free to contact me at your convenience.

Sincerely, Connelly & Wicker, Inc.

Richard C. Welch, P.E. President

- F		
		ACCESS NUMBER 2
	THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 35, TOWNSHIP 20 SOUTH, RANGE 25 EAST, LAKE COUNTY, FLORIDA; AND THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 35, TOWNSHIP 20 SOUTH,	
	RANGE 25 EAST, LAKE COUNTY, FLORIDA; AND A TRIANGULAR TRACT OF LAND DESCRIBED AS:	
/: Justin	BEGINNING AT THE NORTHEAST CORNER OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4, IN SECTION 35, TOWNSHIP 20 SOUTH, RANGE 25 EAST, LAKE COUNTY, FLORIDA; RUN THENCE WEST APPROXIMATELY 330 FEET TO THE SOUTHEAST CORNER OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4; THENCE RUN NORTH APPROXIMATELY 330 FEET TO THE NORTHEAST CORNER OF THE TWO AND ONE-HALF ACRE TRACT LAST DESCRIBED; THENCE SOUTHEAST TO THE POINT OF BEGINNING;	E 2647.09
Printed By	AND THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4, LESS THAT PART LYING WITHIN TAYLOR MEMORIAL CEMETERY HEREINAFTER PARTICULARLY DESCRIBED:	L123 JUTAN
	THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4, LYING NORTH AND WEST OF STATE ROAD 19, NOW PAVED. LESS AND EXCEPT SUCH PORTION OF TAYLOR MEMORIAL CEMETERY INCLUDED THEREIN, WHICH CEMETERY IS MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT THE EAST 1/2 MILE CORNER OF SECTION 35, TOWNSHIP 20 SOUTH, RANGE 25 EAST, LAKE COUNTY, FLORIDA; RUN WEST 1490 FEET TO AN IRON PIPE ON THE NORTH RIGHT-OF-WAY LINE OF SAID STATE ROAD NOW PAVED; THENCE SOUTHWESTERLY ALONG SAID	
- 1:35pm	RIGHT-OF-WAY LINE 446.5 FEET TO A CEMENT MARKER AND THE POINT OF BEGINNING OF CEMETERY PROPERTY; RUN THENCE SOUTHWESTERLY WITH THE NORTH RIGHT-OF-WAY LINE OF SAID ROAD 509.4 FEET; THENCE NORTH 36°27' WEST, 573.8 FEET; THENCE NORTH 51°33' EAST, 500 FEET; THENCE SOUTH 38°27 EAST, 500 FEET TO THE POINT OF BEGINNING; AND	
ep 13, 2022 .	THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4, LYING NORTH AND WEST OF STATE ROAD 19, NOW PAVED, LESS AND EXCEPT SUCH PART THEREOF AS IS CONTAINED IN THE PLAT OF PALM GARDENS AS RECORDED IN THE PUBLIC RECORDS OF LAKE COUNTY, FLORIDA ON FEBRUARY 26, 1951, IN PLAT BOOK 12, PAGE 11; AND	
Printed: Se	THE WEST 1/2, LESS AND EXCEPT THE NORTH 3/4 OF THE NORTHEAST 1/4 OF THE NORTHWEST 1/4, IN SECTION 35, TOWNSHIP 20 SOUTH, RANGE 25 EAST, LAKE COUNTY, FLORIDA; AND	.8
ŗ	THAT PART OF THE SOUTH 1/4 OF THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4, LYING SOUTH OF COUNTY CLAY ROAD, IN SECTION 26, TOWNSHIP 20 SOUTH, RANGE 25 EAST, LAKE COUNTY, FLORIDA. SUBJECT TO THE RIGHTS-OF-WAY FOR ALL EXISTING STATE, COUNTY AND TOWN ROAD, STREETS AND HIGHWAYS; AND	N0'20'53"E 2647
	A TRACT OF LAND LOCATED IN THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 35, TOWNSHIP 20 SOUTH, RANGE 25 EAST, LAKE COUNTY, FLORIDA, AND GENERALLY DESCRIBED AS LYING SOUTH OF THE RESIDENCE OF DON WHITE AND WEST OF THE WESTERLY BOUNDARY LINE OF PALM GARDENS SUBDIVISION; AND	AF
	ALL OF BLOCK D-14, ACCORDING TO THE PLAT OF PALM GARDENS, FILED FEBRUARY 26, 1951, AND RECORDED IN PLAT BOOK 12, PAGE 11, OF THE PUBLIC RECORDS OF LAKE COUNTY, FLORIDA. ALL OF THE ABOVE LAKE COUNTY PROPERTY BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:	
	THAT PART OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 35, TOWNSHIP 20 SOUTH, RANGE 25 EAST, IN THE TOWN OF HOWEY IN THE HILLS, FLORIDA, BOUNDED AND DESCRIBED AS FOLLOWS: BEGIN AT THE NORTHWEST CORNER OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF THE NORTHWEST 1/4 OF THE NOR	
	SAID SECTION 35; THENCE RUN EAST ALONG THE NORTH LINE THEREOF TO THE NORTHEAST CORNER OF THE SAID SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4; THENCE RUN SOUTHEASTERLY ALONG A STRAIGHT LINE TO THE NORTHEAST CORNER OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SAID SECTION 35; THENCE RUN SOUTH ALONG EAST LINE THEREOF, TO THE SOUTHWEST CORNER OF THE SAID SOUTHWEST 1/4 OF THE NORTHEAST 1/4; THENCE RUN WEST ALONG THE SOUTH LINE THEREOF TO THE SOUTHWEST CORNER OF THE SAID NORTHWEST 1/4 OF THE NORTHEAST 1/4; THENCE RUN WEST ALONG THE SOUTH LINE THEREOF TO THE SOUTHWEST CORNER OF THE SAID NORTHWEST 1/4 OF THE NORTHEAST 1/4;	
	THENCE RUN NORTH ALONG THE WEST LINE OF THE SAID NORTHWEST 1/4 OF THE NORTHEAST 1/4 TO THE POINT OF BEGINNING; LESS ALL RIGHTS-OF-WAY FOR STREETS IN HOWEY IN THE HILLS, FLORIDA. ALL OF BLOCK D-14 IN PALM GARDENS, A SUBDIVISION IN THE TOWN OF HOWEY IN THE HILLS, FLORIDA, ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 12, PAGE 11 OF THE PUBLIC RECORDS OF LAKE COUNTY, FLORIDA.	4
	THE SOUTH 3/4 OF THE WEST 1/2; THE NORTHWEST 1/4 OF THE NORTHWEST 1/4, LESS THE RIGHT-OF-WAY OF A COUNTY CLAY ROAD; AND THE SOUTH 1/4 OF THE NORTHEAST 1/4 OF THE NORTHWEST 1/4 OF SECTION 35, TOWNSHIP 20 SOUTH, RANGE 25 EAST, LAKE COUNTY, FLORIDA, IN THE TOWN OF HOWEY IN THE HILLS, FLORIDA. THAT PART OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 AND THAT PART OF THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4 LYING	
	NORTH AND WEST OF THE WESTERLY LINE OF THE RIGHT-OF-WAY OF STATE ROAD NO. 19, IN SECTION 35, TOWNSHIP 20 SOUTH, RANGE 25 EAST, LAKE COUNTY, FLORIDA, IN THE TOWN OF HOWEY IN THE HILLS, FLORIDA; LESS AND EXCEPT THEREFROM THAT PART THEREOF LYING WITHIN TAYLOR MEMORIAL CEMETERY, ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 12, PAGE 5, OF THE PUBLIC RECORDS OF LAKE COUNTY, FLORIDA, AND ALSO LESS ALL RIGHTS-OF-WAY FOR STREETS IN HOWEY IN THE HILLS, FLORIDA.	PROJECT BONDARY
	THAT PART OF THE EAST 1/2 OF THE NORTHEAST 1/4 OF SECTION 35, TOWNSHIP 20 SOUTH, RANGE 25 EAST, IN THE TOWN OF HOWEY IN THE HILLS, FLORIDA, BOUNDED AND DESCRIBED AS FOLLOWS: BEGIN AT THE NORTHWEST CORNER OF LOT 1, IN BLOCK D-14, IN PALM GARDENS, ACCORDING TO THE PLAT THEREOF RECORDED IN BOOK 12, PAGE 11, OF THE PUBLIC RECORDS OF LAKE COUNTY, FLORIDA; THENCE RUN WEST TO THE WEST LINE OF THE NORTHEAST 1/4 OF THE SUBJECT 1/4 OF THE PUBLIC RECORDS OF LAKE COUNTY, FLORIDA; THENCE RUN WEST TO THE WEST LINE OF THE NORTHEAST 1/4 OF THE DESCRIPTION OF THE PUBLIC RECORDS OF LAKE COUNTY AND THE AND THE RUN WEST TO THE WEST LINE OF THE NORTHEAST 1/4 OF THE	
	NORTHEAST 1/4 OF THE SAID SECTION 35; THENCE RUN SOUTH ALONG THE WEST LINE OF THE EAST 1/2 OF THE NORTHEAST 1/4 OF THE SAID SECTION 35 TO A POINT ON THE NORTHWESTERLY LINE OF THE RIGHT-OF-WAY OF STATE ROAD NO. 19; THENCE RUN NORTHEASTERLY ALONG THE NORTHWESTERLY LINE OF THE SAID RIGHT-OF-WAY OF STATE ROAD NO. 19; THENCE RUN SUBDIVISION; THENCE RUN NORTHWESTERLY ALONG THE WESTERLY LINE OF THE SAID BLOCK D-14, OF THE SAID PALM GARDENS SUBDIVISION; THENCE RUN NORTHWESTERLY ALONG THE WESTERLY LINE OF THE SAID BLOCK D-14, TO THE POINT OF BEGINNING; LESS ALL RIGHTS-OF-WAY FOR STREETS IN HOWEY IN THE HILLS, FLORIDA,	STOR
	THAT PART OF THE SOUTH 1/4 OF THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 26, TOWNSHIP 20 SOUTH, RANGE 25 EAST, LAKE COUNTY, FLORIDA, LYING SOUTH OF THE SOUTHERLY LINE OF THE RIGHT-OF-WAY OF THE COUNTY ROAD. LESS THE FOLLOWING DESCRIBED PARCEL:	
	COMMENCE AT THE EAST 1/4 CORNER OF SECTION 35, TOWNSHIP 20 SOUTH, RANGE 25 EAST, LAKE COUNTY, FLORIDA; THENCE RUN NORTH 89'21'35" WEST ALONG THE SOUTH LINE OF THE NORTHEAST 1/4 OF SAID SECTION 35, 1487.79 FEET TO A POINT ON THE NORTHWESTERLY RIGHT-OF-WAY LINE OF STATE ROAD NO. 19; THENCE RUN SOUTH 52'07'27" WEST ALONG SAID NORTHWESTERLY RIGHT-OF-WAY LINE, 459.23 FEET TO THE POINT OF CURVATURE OF A CURVE CONCAVE SOUTHEASTERLY; THENCE RUN SOUTHWESTERLY ALONG THE ARC OF SAID CURVE AND SAID NORTHWESTERLY RIGHT-OF-WAY LINE HAVING A CENTRAL ANGLE OF 14'35'56", A RADIUS OF 2341.83 FEET, AN ARC	
	LENGTH OF 596.69 FEET, A CHORD BEARING OF SOUTH 44'49'31" WEST AND A CHORD DISTANCE OF 595.08 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE ALONG SAID NORTHWESTERLY RIGHT-OF-WAY LINE BEING A CURVE CONCAVE SOUTHEASTERLY; THENCE RUN SOUTHWESTERLY ALONG SAID CURVE HAVING A CENTRAL ANGLE OF 22'58'29", A RADIUS OF 2341.83 FEET, AN ARC LENGTH OF 939.04 FEET, A CHORD BEARING OF SOUTH 26'02'16" WEST AND A CHORD DISTANCE OF 932.76 FEET; THENCE RUN NORTH 75'26'58" WEST, 402.66 FEET; THENCE RUN SOUTH 68'12'24" WEST, 668.73 FEET; THENCE RUN NORTH 53'42'00" WEST, 250.16 FEET; THENCE RUN NORTH 12'38'17" EAST,	
	257.60 FEET; THENCE RUN NORTH 77'21'43" WEST, 125.00 FEET; THENCE RUN NORTH 12'38'17" EAST, 13.01 FEET TO THE POINT OF CURVATURE OF A CURVE CONCAVE EASTERLY; THENCE RUN NORTHEASTERLY ALONG THE ARC OF SAID CURVE HAVING A CENTRAL ANGLE OF 39'28'41", A RADIUS OF 75.00 FEET, AN ARC LENGTH OF 51.68 FEET, A CHORD BEARING OF NORTH 32'22'37" EAST AND A CHORD DISTANCE OF 50.66 FEET TO THE POINT OF TANGENCY; THENCE RUN NORTH 52'06'58" EAST, 476.63 FEET; THENCE RUN NORTH 54'47'17" EAST, 150.16 FEET; THENCE RUN NORTH 52'06'58" EAST, 205.75 FEET TO THE POINT OF CURVATURE OF A CURVE CONCAVE SOUTHERLY;	PARK ARI 0.18 AC
	THENCE RUN EASTERLY ALONG THE ARC OF SAID CURVE HAVING A CENTRAL ANGLE OF 62'53'19", A RADIUS OF 24.99 FEET, AN ARC LENGTH OF 27.43 FEET, A CHORD BEARING OF NORTH 83'33'05" EAST AND A CHORD DISTANCE OF 26.08 FEET TO THE POINT OF REVERSE CURVATURE OF A CURVE CONCAVE NORTHWESTERLY; THENCE RUN NORTHEASTERLY ALONG THE ARC OF SAID CURVE HAVING A CENTRAL ANGLE OF 125'45'33", A RADIUS OF 99.99 FEET, AN ARC LENGTH OF 219.47 FEET, A CHORD BEARING OF NORTH 52'06'58" EAST AND A CHORD DISTANCE OF 178.00 FEET TO THE POINT OF REVERSE CURVATURE OF A CURVE CONCAVE SOUTHEASTERLY; THENCE RUN	VEGETATIVE UPLAND BUFFER
bit.dwg	NORTHEASTERLY ALONG THE ARC OF SAID CURVE HAVING A CENTRAL ANGLE OF 62'53'19", A RADIUS OF 24.99 FEET, AN ARC LENGTH OF 27.43 FEET, A CHORD BEARING OF NORTH 20'40'51" EAST AND A CHORD DISTANCE OF 26.08 FEET TO THE POINT OF TANGENCY; THENCE RUN NORTH 52'06'58" EAST, 560.98 FEET TO A POINT ON THE NORTHWESTERLY EXTENSION OF THE SOUTHWESTERLY LINE OF TAYLOR MEMORIAL CEMETERY; THENCE RUN SOUTH 37'58'58" EAST ALONG SAID NORTHWESTERLY EXTENSION LINE, 613.80 FEET TO THE POINT OF BEGINNING.	
PUD Exhibit.	ALSO LESS THE FOLLOWING DESCRIBED PARCEL: COMMENCE AT THE EAST 1/4 CORNER OF SECTION 35, TOWNSHIP 20 SOUTH, RANGE 25 EAST, LAKE COUNTY, FLORIDA; THENCE RUN NORTH 89°21'35" WEST ALONG THE SOUTH LINE OF THE NORTHEAST 1/4 OF SAID SECTION 35, 1487.79 FEET TO A POINT ON THE NORTHWESTERLY RIGHT-OF-WAY LINE OF STATE ROAD NO. 19; THENCE RUN SOUTH 52°07'27" WEST ALONG SAID NORTHWESTERLY RIGHT-OF-WAY LINE, 66.25	24' PVM'T 50' R/W
1-04-0008	FEET TO THE POINT OF BEGINNING; THENCE CONTINUE SOUTH 52'07'27" WEST ALONG SAID NORTHWESTERLY RICHT-OF-WAY LINE, 392.98 FEET TO THE POINT OF CURVATURE OF A CURVE CONCAVE SOUTHEASTERLY; THENCE RUN SOUTHWESTERLY ALONG THE ARC OF SAID CURVE HAVING A CENTRAL ANGLE OF 02'12'24", A RADIUS OF 2341.83 FEET, AN ARC LENGTH OF 90.19 FEET, A CHORD BEARING OF SOUTH 51'01'15" WEST AND A CHORD DISTANCE OF 90.19 FEET TO THE MOST EASTERLY CORNER OF TAYLOR MEMORIAL CEMETERY; THENCE RUN NORTH 38'00'31" WEST, ALONG THE NORTHEASTERLY LINE OF SAID TAYLOR MEMORIAL CEMETERY, 547.00 FEET; THENCE RUN NORTH	26666.22'
s/Maps/21	52'06'58" EAST, 484.34 FEET TO THE POINT OF CURVATURE OF A CURVE CONCAVE SOUTHERLY; THENCE RUN SOUTHEASTERLY ALONG THE ARC OF SAID CURVE HAVING A CENTRAL ANGLE OF 90'00'00", A RADIUS OF 10.00 FEET, AN ARC LENGTH OF 15.71 FEET, A CHORD BEARING OF SOUTH 82'53'02" EAST AND A CHORD DISTANCE OF 14.14 FEET TO THE POINT OF TANGENCY; THENCE RUN SOUTH 37'53'02" EAST, 525.33 FEET TO THE POINT OF CURVATURE OF A CURVE CONCAVE NORTHWESTERLY; THENCE RUN SOUTHWESTERLY ALONG THE ARC OF SAID CURVE HAVING A CENTRAL ANGLE OF 90'00'00", A RADIUS OF 10.00 FEET, AN ARC LENGTH OF 15.71 FEET, A CHORD BEARING OF SOUTH	57'33"E 26
esign\Dwg:	07'07'12" WEST AND A CHORD DISTANCE OF 14.14 FEET TO THE POINT OF BEGINNING. AND, ALSO LESS THE FOLLOWING DESCRIBED PARCEL: COMMENCE AT THE EAST 1/4 CORNER OF SECTION 35, TOWNSHIP 20 SOUTH, RANGE 25 EAST, LAKE COUNTY, FLORIDA; THENCE RUN NORTH	.ON
owey\D	89°21'35" WEST ALONG THE SOUTH LINE OF THE NORTHEAST 1/4 OF SAID SECTION 35, 1487.79 FEET TO A POINT ON THE NORTHWESTERLY RIGHT-OF-WAY LINE OF STATE ROAD NO. 19 THENCE RUN NORTH 52'07'27" EAST ALONG SAID NORTHWESTERLY RIGHT-OF-WAY LINE, 673.75 FEET TO THE POINT OF BEGINNING; THENCE RUN NORTH 37'53'02" WEST, 1008.88 FEET; THENCE RUN NORTH 00'35'47" EAST, 116.78 FEET TO A POINT ON THE NORTH LINE OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF SAID SECTION 35; THENCE RUN SOUTH 89'24'13" EAST ALONG SAID NORTH LINE, 270.08 FEET TO A POINT ON THE WEST LINE OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SAID	
serve at H	SECTION 35; THENCE RUN NORTH 00'35'58" EAST ALONG SAID WEST LINE, 256.12 FEET TO A POINT ON THE SOUTH LINE OF THE RESIDENCE OF DON WHITE; THENCE RUN SOUTH 89'24'13" EAST ALONG SAID SOUTH LINE, 418.17 FEET; THENCE RUN SOUTH 00'35'47" WEST, 709.10 FEET; THENCE RUN SOUTH 37'52'33" EAST, 317.47 FEET TO A POINT ON SAID NORTHWESTERLY RIGHT-OF-WAY LINE OF STATE ROAD NO. 19; THENCE RUN SOUTH 52'07'27" WEST ALONG SAID NORTHWESTERLY RIGHT-OF-WAY LINE, 329.54 FEET TO THE POINT OF BEGINNING.	STORMWATER MANAGEMENT FACILITY
-04-0008 Pre	ALSO, LESS AND EXCEPT THE FOLLOWING DESCRIBED PARCEL: THAT PARCEL DESCRIBED AS THE TAYLOR MEMORIAL CEMETERY IN THAT QUITCLAIM DEED RECORDED IN OFFICIAL RECORDS BOOK 1147, PAGE 1398, OF THE PUBLIC RECORDS OF LAKE COUNTY, FLORIDA.	N
J:\21\21-04-	PARCEL 2 (EASEMENT ESTATE): TOGETHER WITH THOSE APPURTENANT EASEMENTS AS SET FORTH AND GRANTED BY EAGLES LANDING AT OCOEE, INC., A FLORIDA CORPORATION, TO HOWEY IN THE HILLS, A FLORIDA LIMITED PARTNERSHIP, IN THAT DEVELOPMENT AGREEMENT AND GRANT OF EASEMENTS, RECORDED NOVEMBER 10, 2005 IN OFFICIAL RECORDS BOOK 3003, PAGE 1377, OF THE PUBLIC RECORDS OF LAKE COUNTY, FLORIDA.	
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ORDINANCE NO. 2022-019

AN ORDINANCE OF THE TOWN OF HOWEY-IN-THE-HILLS, FLORIDA, PERTAINING TO LAND USE; AMENDING ORDINANCE 2021-010 PERTAINING TO THE USE OF LAND WITHIN THE PROPERTY KNOWN AS THE RESERVE AT HOWEY-IN-THE-HILLS; PROVIDING FINDINGS OF THE TOWN COUNCIL; AMENDING THE AMENDED AND RESTATED DEVELOPER'S AGREEMENT FOR THE RESERVE AT HOWEY-IN-THE-HILLS TO ALLOW A CHANGE IN THE REQUIREMENTS FOR CONSTRUCTION OF A NORTH-SOUTH ROAD; RATIFYING AND CONFIRMING THE PROVISIONS OF ORDINANCE 2021-010, AS AMENDED; PROVIDING FOR SEVERABILITY, CONFLICTS, AND AN EFFECTIVE DATE.

BE IT ORDAINED BY THE TOWN COUNCIL OF THE TOWN OF HOWEY-IN-THE-HILLS, FLORIDA:

Section 1. Findings. The owners of the land zoned under Ordinance 2021-010 for The Reserve at Howey-in-the-Hills Planned Unit Development ("The Reserve") have requested an amendment to the land-use approvals for The Reserve to allow the north-south spine road labeled "Road A" to be constructed as a two-lane road instead of a four-lane road. The request is reasonable and the Town Council is willing to approve it.

Section 2. Amendments to Land-Use Approvals.

a) The proposed "First Amendment to the Amended and Revised Developer's Agreement for The Reserve at Howey-in-the-Hills" ("First Amendment") is approved. The Town Manager and the Town Clerk are authorized and directed to execute and deliver to the Owners the First Amendment as presented to the Town Council, with such amendments (if any) approved by Town Council.

b) The list in section 2 of Ordinance 2021-010 of the land-use approvals and other documents containing the conditions, requirements, restrictions, and other terms pertaining to development of The Reserve is amended to add the following:

- The First Amendment to Amended and Restated Developer's Agreement for The Reserve at Howey-in-the-Hills, dated as of ______, 202__, including its Attachment 1; and
- ii. The Master Site Plan for The Reserve at Howey-in-the-Hills dated August 2022

and contained in Attachment 1 to the First Amendment; and

- iii. The Typical Roadway Cross Section for 90' Right of Way contained in Attachment 1 to the First Amendment; and
- iv. The Typical Roadway Cross Section for 90' Right of Way (4 lane section)
 contained in Attachment 1 to the First Amendment.

Section 3. Ratification; Future Amendments to Developer's Agreement.

a) The First Amendment shall prevail over and supersede Ordinance 2021-010 and the land-use approvals itemized in section 2 of Ordinance 2021-010, but only to the extent a conflict exists between or among them. Otherwise, Ordinance 2021-010 and the land-use approvals and other instruments and documents identified in section 2 of the ordinance are ratified, validated, and confirmed herewith and declared to remain in full force and effect.

b) The Town Council is authorized to approve future amendments (if any) to the Amended and Restated Developer's Agreement for The Reserve at Howey-in-the-Hills without the necessity of amending either Ordinance 2021-010 or this ordinance.

Section 4. Severability. If any part of this ordinance is declared by a court of competent jurisdiction to be void, unconstitutional, or unenforceable, the remaining parts of this ordinance shall remain in full effect. To that end, this ordinance is declared to be severable.

Section 5. Codification. This ordinance shall be codified only if the Town Manager determines, upon consultation with the Town Attorney and Town Planner, that codification is necessary or useful to the Town and its citizens.

Section 6. Effective Date. This ordinance shall take effect upon the later of (i) its enactment by the Town Council or (ii) the date on which the First Amendment to the Amended and Restated Developer's Agreement for Howey-in-the-Hills takes effect.

ORDAINED AND ENACTED this ____ day of _____, 2022, by the Town Council of the Town of Howey-in-the-Hills, Florida.

TOWN OF HOWEY-IN-THE-HILLS, FLORIDA By: its Town Council

By:____

Martha MacFarlane, Mayor

ATTEST:

APPROVED AS TO FORM AND LEGALITY

(for use and reliance of the Town only)

John Brock Town Clerk Thomas J. Wilkes Town Attorney

Planning and Zoning hearing held September 22, 2022
First Reading held ______, 2022
Second Reading and Adoption held ______, 2022
Advertised ______, 2022

Record and Return to:

Thomas J. Wilkes Gray Robinson, P.A. 301 East Pine Street, Suite 1400 Orlando, FL 32801

As approved by Town Council for the Town of Howey-in-the-Hills, Florida

FIRST AMENDMENT

to the

AMENDED AND RESTATED DEVELOPER'S AGREEMENT

THE RESERVE AT HOWEY-IN-THE-HILLS

This **FIRST AMENDMENT to THE AMENDED AND RESTATED DEVELOPER'S AGREEMENT for THE RESERVE AT HOWEY-IN-THE-HILLS** ("First Amendment") is made as of the ____ day of ______, 2022, among the **Town of Howeyin-the-Hills, Florida**, a Florida municipal corporation, whose address for purposes of this First Amendment is 101 North Palm Avenue, Howey-in-the-Hills, Florida 34737 (the "Town"), **Eagle's Landing at Ocoee, LLC**, a Florida limited liability company f/k/a Eagles Landing at Ocoee, Inc., a Florida corporation, whose address for purposes of this First Amendment is P.O. Box 770609, Winter Garden, Florida 34777, **Howey In the Hills, Ltd.**, a Florida limited partnership, whose address for purposes of this First Amendment is 10165 NW 19th Street, Miami, Florida 33172 and **ASF TAP FL I, LLC**, a Delaware limited liability company authorized to do business in the State of Florida, whose address for purposes of this First Amendment is 3565 Piedmont Road NE, Building 1, Suite 200, Atlanta, GA 30305 (collectively, the "Owners").

RECITALS

A. The Town and the Owners entered into that certain Amended and Restated Developer's Agreement for The Reserve at Howey-in-the-Hills dated as of November 8, 2021 ("Developer's Agreement"), under which the Town and the Owners set forth the requirements, restrictions, terms, and conditions for the development of the planned unit development known as The Reserve at Howey-in-the-Hills ("The Reserve"). The Developer's Agreement is recorded at Official Records Book 5903, page 1507, of the Public Records of Lake County, Florida.

B. The Owners are the owners of the approximately 378 acres of land that comprise The Reserve, which land is more particularly described on Exhibit A to the Developer's Agreement ("the Property").

C. The Property is within the corporate limits of the Town, has a future-land-use designation of Village Mixed Use, and is zoned for PUD-Planned Unit Development. The

Developer's Agreement allows the Owners to develop the Property as a mixed-use planned development consisting of single-family residential, multi-family residential, commercial, and institutional land uses, as more specifically set forth in the Developer's Agreement.

D. ASF TAP FL I, LLC, is the successor in interest to REO Funding Solutions IV, LLC, an original party to the Developer's Agreement, and has full right and authority to enter into and execute this First Amendment.

D. The Town and the Owners now intend to enter into this First Amendment for the sole purpose of modifying the requirements and restrictions applicable to the north-south road known on the site plan as "Road A."

NOW, THEREFORE, the Town and the Owners agree as follows:

1. Recitals. The foregoing recitals are true and correct and are hereby incorporated as terms.

2. Authority. This First Amendment is entered into by the Town under the home rule powers granted to it by the Florida Constitution (including Article VIII, Section 2(b) thereof), the home-rule powers granted municipalities by statute and otherwise (including Chapters 163 and 166, Florida Statutes), and the Town's Charter. The Agreement as amended by this First Amendment does not constitute a "development agreement" under the Florida Local Government Development Agreement Act.

3. Amendment. The Owners may construct the north-south spine road labeled "Road A" in accordance with the following contained in Attachment 1 to this First Amendment: (i) the Master Site Plan dated as of August 2022 and (ii) the two-lane and four-lane road cross sections. Road A shall be completed as part of the improvements required in Phase 1 of the development.

4. Ratification. Except as provided in paragraph 3 of this First Amendment, all provisions of the Developer's Agreement remain in full force and effect and are ratified and confirmed by the parties to the Developer's Agreement.

5. Notices. All notices or payments required to be made hereunder shall be made at the following addresses:

To Town:	Hon. Martha MacFarlane, Mayor,
	Town of Howey-in-the-Hills
	101 North Palm Avenue
	Howey-in-the-Hills, FL 34737
	mmacfarlane@howey.org
With copies to:	Sean O'Keefe, Town Administrator

Town of Howey-in-the-Hills		
101 North Palm Avenue		
Howey-in-the-Hills, FL 34737		
sokeefe@howey.org		

Thomas J. Wilkes Gray Robinson, P.A. 301 East Pine Street, Suite 1400 Orlando, FL 32801 twilkes@gray-robinson.com

- To Owner: Eagles Landing at Ocoee, Inc. Attention: Randy June June Engineering Consultants, Inc. 23 W. Joiner Street Winter Garden, Florida 34787 randy@jec3.com
- With a copy to: C. Nick Asma, *Esquire* Asma & Asma, P.A. 884 South Dillard Street Winter Garden, Florida 34787 Phone: 407-656-5750 | Fax: 407-656-0486 <u>Nick.Asma@asmapa.com</u>
- To Owner: Howey in the Hills, Ltd. Attention: Edward J. Easton 10165 NW 19th Street Miami, FL 33172
- With copies to: Joe Hernandez Weiss, Serota Helfman Cole and Bierman, P.L 2525 Ponce de Leon Blvd. Suite 700 Coral Gables, Florida 33134 jhernandez@wsh-law.com

Lennar Attn. Mark McDonald 6675 Westwood Boulevard, 5th Floor Orlando, Florida 32821 <u>Mark.McDonald@Lennar.com</u>

To Owner:	ASF TAP FL I, LLC
	3565 Piedmont Road NE, Bldg. 1, Suite 200
	Atlanta, GA 30305
	Attn: Dror Bezalel, CFO
	[add email address]

With copies to:

20. <u>Entire Agreement</u>. The Developer's Agreement as amended by this First Amendment constitutes the entire agreement of the parties with respect to the transactions contemplated herein and supersedes all prior understandings or agreements among the parties relating to The Reserve PUD. No amendment to the Developer's Agreement, as amended hereby, shall be effective unless it is in writing signed by all parties hereto. Amendments to the Developer's Agreement will take effect and be binding against the Town only if approved by a vote of the Town Council.

21. <u>Recording</u>. This First Amendment shall be recorded in the Public Records of Lake County, Florida, by the Owners, at their expense.

22. <u>Effective Date</u>. This First Amendment shall become effective concurrently with the effectiveness of Ordinance 2022-____ after enactment of that ordinance by the Town Council and execution of this Agreement by all parties.

[Signatures on the following pages]

IN WITNESS WHEREOF, the parties have executed this instrument as of the day and year first above written.

TOWN OF HOWEY-IN-THE HILLS, FLORIDA

By: its Town Council

By: _____

Martha MacFarlane, Mayor

Attest:

By: _____

John Brock, Town Clerk

Approved as to form and legality: (for the use and reliance of the Town only)

By: _

Thomas J. Wilkes, Town Attorney

STATE OF FLORIDA COUNTY OF LAKE

The foregoing instrument was executed, sworn to and acknowledged before me by means of _____ physical presence or _____ online notarization, this ____ day of _____, 2022, by MARTHA MACFARLANE, as Mayor of TOWN OF HOWEY-IN-THE-HILLS, a Florida municipal corporation, on its behalf.

(SEAL)

Signature of Notary Public

Name of Notary Public (Typed, Printed or stamped)

Personally Known _____ OR Produced Identification _____

IN WITNESS WHEREOF, the parties have executed this instrument as of the day and year first above written.

Signed, sealed and delivered in the presence of:

"WITNESSES"

"OWNER"

EAGLES LANDING AT OCOEE, LLC,

Printed Name:

a Florida limited liability company f/k/a Eagles Landing at Ocoee, Inc., a Florida corporation

By:	
Printed Name:	
As its:	

Printed Name:

STATE OF FLORIDA COUNTY OF _____

The foregoing instrument was executed, sworn to and acknowledged before me by means of _____ physical presence or _____ online notarization, this ___day of _____, 2021, by ______, as _____ of EAGLES LANDING AT OCOEE, LLC, a Florida limited liability company f/k/a Eagles Landing at Ocoee, Inc., a Florida corporation, on its behalf.

(SEAL)

Signature of Notary Public

Name of Notary Public (Typed, Printed or stamped)

Personally Known _____ OR Produced Identification _____

IN WITNESS WHEREOF, the parties have executed this instrument as of the day and year first above written.

Signed, sealed and delivered	
in the presence of:	

"WITNESSES"

"OWNER"

HOWEY IN THE HILLS, LTD., a Florida limited partnership

	By:	
Printed Name:	Printed Name:	
	Title:	

Printed Name: _____

STATE OF FLORIDA COUNTY OF _____

The foregoing instrument was executed, sworn to and acknowledged before me by means of ______physical presence or _____ online notarization, this _____ day of ______, 2022, by ______, as ______ of HOWEY IN THE HILLS, LTD., a Florida limited partnership, on its behalf.

(SEAL)

Signature of Notary Public

Name of Notary Public (Typed, Printed or stamped)

Personally Known _____ OR Produced Identification _____

IN WITNESS WHEREOF, the parties have executed this instrument as of the day and year first above written.

Signed, sealed and delivered in the presence of:

"WITNESSES"

"OWNER"

Printed Name:

ASF TAP FL I, LLC, a Delaware limited liability company

By:	
Printed Name: _	
As its:	

Printed Name: _____

STATE OF FLORIDA COUNTY OF _____

The foregoing instrument was executed, sworn to and acknowledged before me by means of _____ physical presence or _____ online notarization, this _____ day of _____, 2022, by ______, as _____ of **ASF TAP FL I, LLC.**, a Delaware limited liability company, on its behalf.

(SEAL)

Signature of Notary Public

Name of Notary Public (Typed, Printed or stamped)

Personally Known _____ OR Produced Identification _____

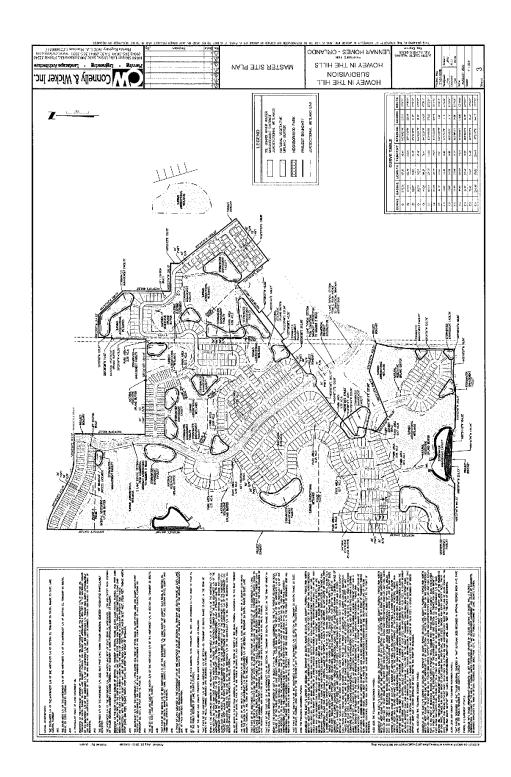
ATTACHMENT 1 to the FIRST AMENDMENT to AMENDED AND RESTATED DEVELOPER'S AGREEMENT for THE RESERVE AT HOWEY-IN-THE-HILLS

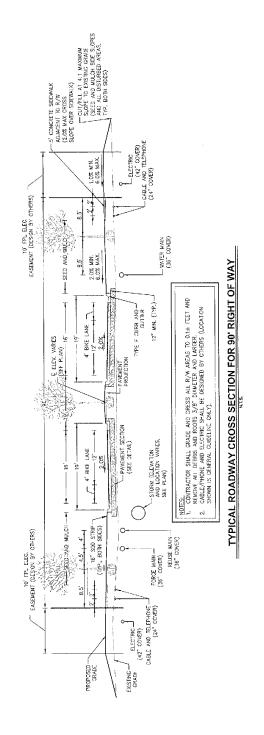
Master Site Plan dated August 2022

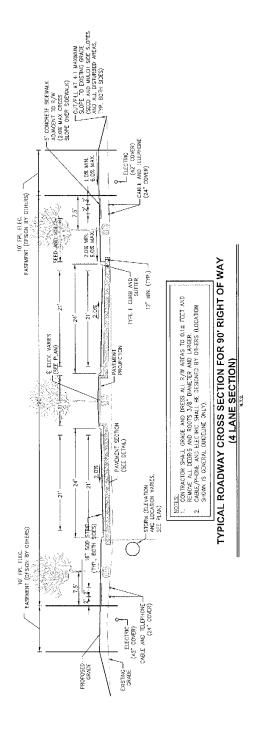
Typical Roadway Cross Section for 90' Right of Way

And

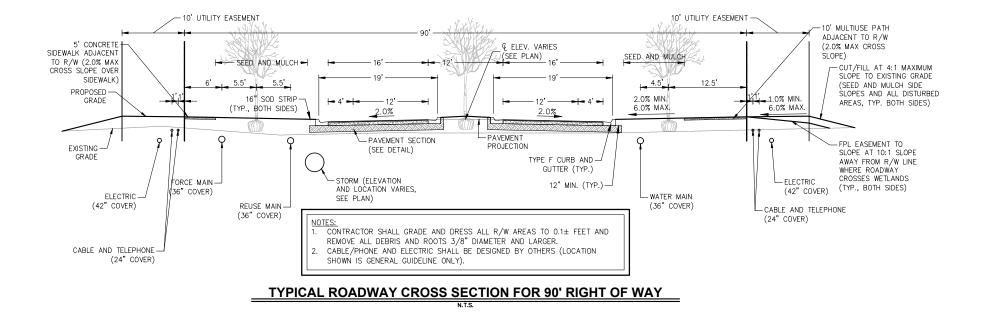
Typical Roadway Cross Section for 90' Right of Way (4 lane section)

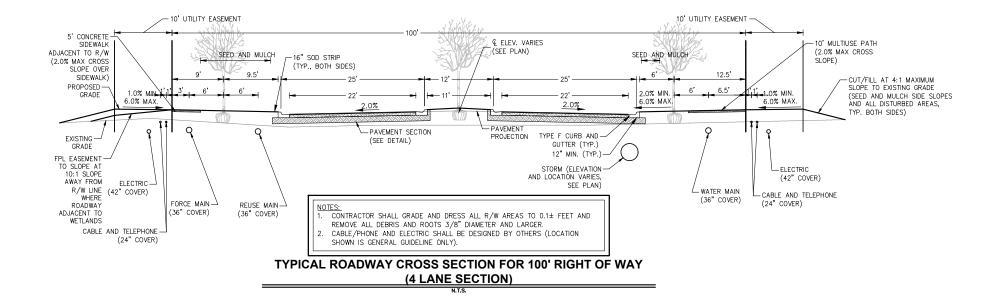






#48304220 v2







MEMORANDUM

September 12, 2022

Re: The Reserve at Howey in the Hills Internal Spine Road Capacity Analysis Town of Howey in the Hills, Florida Project № 21082, v1.1

Traffic & Mobility Consultants (TMC) prepared a Traffic Impact Analysis (TIA) for The Reserve at Howey in the Hills project in November 2021. The TIA was reviewed and approved by the Town of Howey in the Hills early 2022. The approved TIA was based on a Site Plan that included a 4-lane divided boulevard, which serves at the main internal roadway (Road A in the PUD Plan) to the development. The spine road connects the main project entrance on SR 19 to the south and the secondary project entrance on Number 2 Road to the north.

The Developer of this project is proposing to modify the configuration of the internal spine road to have the 4-lane divided section that extends from SR 19 to the commercial driveway intersection, then dropping the road section to a 2-lane divided roadway from the commercial driveway intersection to Number 2 Road.

The purpose of this Technical Memorandum is to examine the capacity of the internal spine road (Road A) to ensure that the road can accommodate the projected traffic generated by the proposed development with the proposed change in the cross-section.

The peak hour directional capacity used in the traffic study for the internal spine road is 612 vehicles/hour for the 2-lane roadway section. The capacity of the 4-lane divided roadway section for the same roadway would be 1,314 vehicles/hour for a 4-lane divided roadway section. The traffic study prepared for this development shows a peak hour directional volume of 201 vehicles/hour in the westbound direction (traffic entering the site during the PM peak hour period) of the 2-lane internal divided roadway section of the spine road (Road A). Exerts of the TIA report showing the projected AM and PM peak hour volumes are provided in the **Attachments**. Since the capacity of the 2-lane section is 612 vehicles/hour, it is evident that the roadway will have sufficient capacity to accommodate the projected traffic generated by the residential portion of the project.

As for the 4-lane divided section of the internal spine road (Road A) from SR 19 to the commercial driveway intersection, the projected traffic volume generated by the commercial outparcels had to be calculated, since it was not included in the TIA report.

The Reserve at Howey in the Hills Internal Spine Road Capacity Analysis Project № 21082, v1.1 September 12, 2022 Page 2 of 3

Trip Generation Analysis

A trip generation analysis was conducted for the northern and southern commercial outparcels. Based on the developable land area for the commercial outparcels, it was assumed that the total buildings will be 230,000 square feet. The trip generation analysis was conducted using the Institute of Transportation Engineers (ITE) *Trip Generation Manual, 11th Edition*, and the resulting trip generation of the two (2) commercial outparcels are presented in **Table 1**.

Table 1
Trip Generation Summary (Commercial Outparcels)

ITE			Da	aily		AM Pea	ak Houi			PM Pea	ak Hour	
Code	Land Use	Size	Rate	Trips	Rate	Total	Enter	Exit	Rate	Total	Enter	Exit
820	Shopping Center (>150k)	230 KSF	37.01	8,512	0.84	193	120	73	3.40	782	375	407

Source: Trip generation analysis based on ITE Trip Generation Manual, 11th Edition * ITE regression equations are used when R-squared is greater than 0.75

As shown above, the proposed commercial outparcels are projected to generate 8,512 daily trips, of which 193 trips occur during AM peak hour, and 782 trips occur during the PM peak hour.

Assuming all the commercial trips entering the site during the PM peak hour period will use the main spine road (Road A), which would be 375 vehicles/hour. Accordingly, the total peak hour directional traffic entering the site during the PM peak hour period would be 576 vehicles/hour (201 trips from the residential land uses + 375 trips from the commercial land uses). Since the capacity of the 4-lane divided roadway section is 1,314 vehicles/hour; therefore, the 4-lane section of the internal spine road (Road A) will have sufficient capacity to accommodate the projected traffic for The Reserve at Howey in the Hills development.

Queuing & Turn Lane Analysis

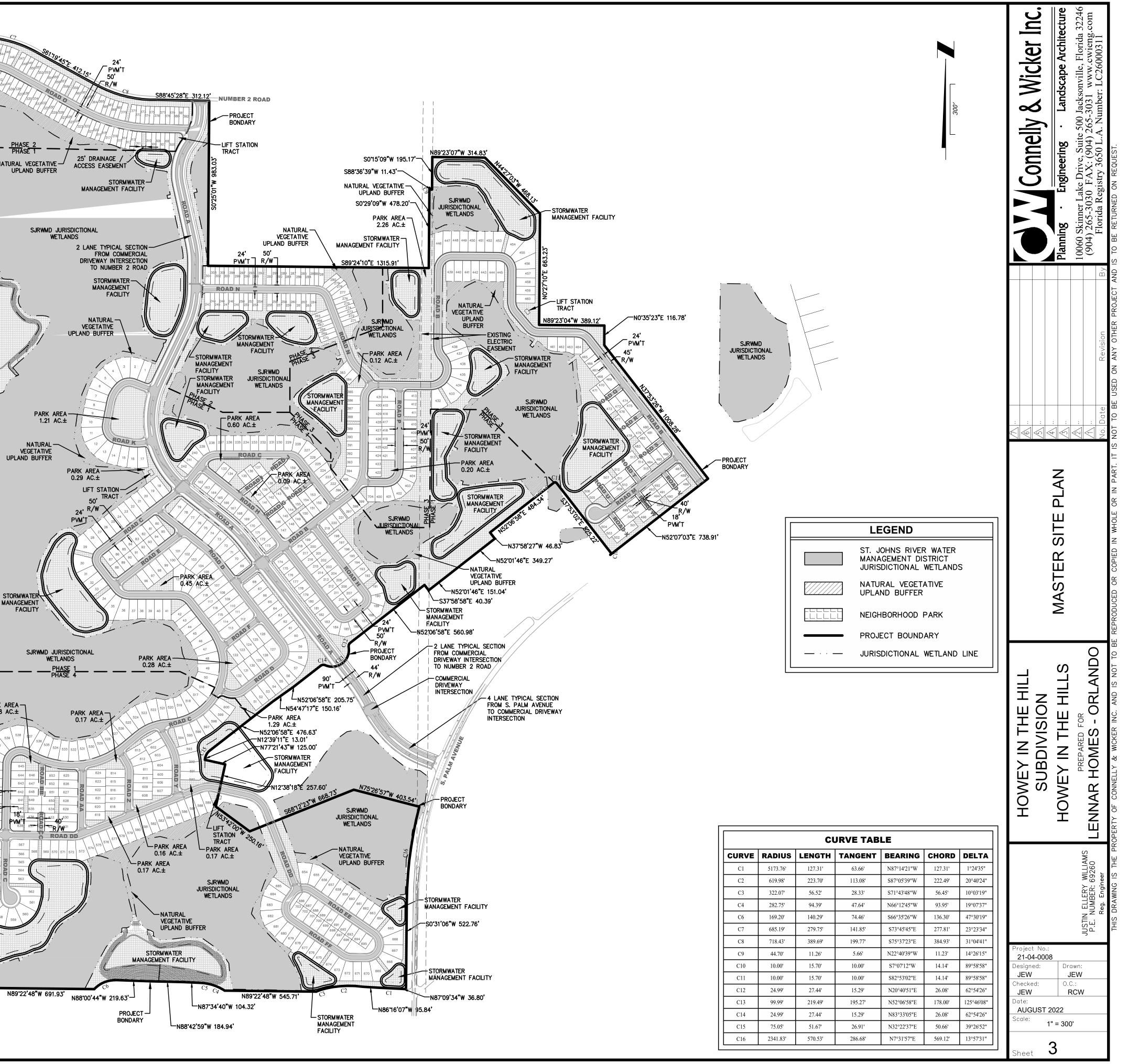
The maximum queue length was calculated at the left turn lane into the southern commercial tract was calculated to determine if there would be sufficient distance between SR 19 and the commercial entrance along Road A (Internal Spine Road). Based on the size of the southern commercial parcel proportionate to the total commercial parcels (northern & southern parcels), it was assumed that 40% of the entering commercial traffic during the PM peak hour period would turn left at the commercial entrance on Road A, which is calculated to be 150 vehicles/hour (375 vehicles/hour x 0.40). Based on roadway design speed of 35 mph, the required length of the westbound left turn lane at the intersection of Road A and Commercial Entrance was calculated as the total of the Deceleration Length plus the Queue Length as shown below:

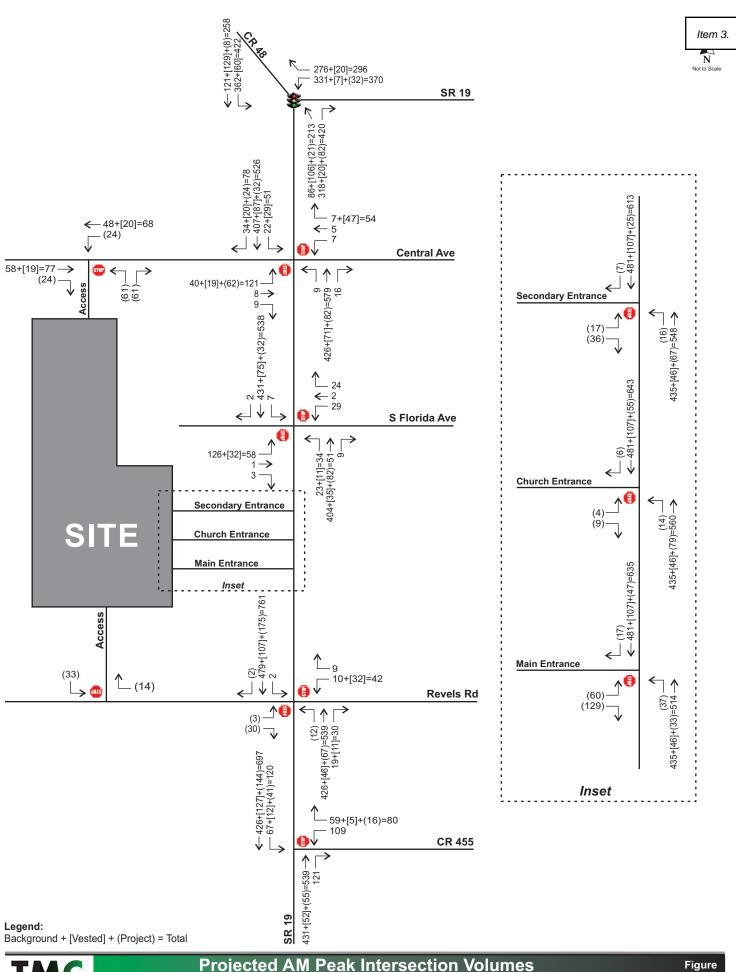
Left Turn Lane = Deceleration Length + Queue Length Deceleration Length @ 35 mph design speed = 145 feet (using FDM Exhibit 212-1) Queue length = 2 x 25 x Left Turn Volume (150 vehicles)/60 = 125 feet Left Turn Lane = 145+ 125 = 270 feet (including a 50-foot taper) The Reserve at Howey in the Hills Internal Spine Road Capacity Analysis Project № 21082, v1.1 September 12, 2022 Page 3 of 3

Summary & Recommendations

This technical memorandum supports the proposed modification of the Boulevard section through the residential area of the PUD to be a 2-lane divided roadway. Furthermore, with a maximum queue length for the westbound left turn calculated at 125 feet, a 270-foot left turn lane would be sufficient to accommodate the commercial traffic turning left into the southern outparcel. Since the distance between the main entrance on SR 19 and the commercial entrance on Road A (internal Spine Road) is approximately 500 feet, it is recommended to accept the proposed internal roadway design as shown on the latest site plan attached. Attachments

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TOGETHER WITH THOSE APPURTENANT EASEMENTS AS SET FORTH AND GRANTED BY EAGLES LANDING AT OCOEE, INC., A FLORIDA CORPORATION, TO HOWEY IN THE HILLS, A FLORIDA LIMITED PARTNERSHIP, IN THAT DEVELOPMENT AGREEMENT AND GRANT OF EASEMENTS, RECORDED NOVEMBER 10, 2005 IN OFFICIAL RECORDS BOOK 3003, PAGE 1377, OF THE PUBLIC RECORDS OF LAKE COUNTY, FLORIDA.		THAT PARCEL DESCRIBED AS THE TAYLOR MEMORIAL CEMETERY IN THAT QUITCLAIM DEED RECORDED IN OFFICIAL RECORDS BOOK 1147, PAGE 1398, OF THE PUBLIC RECORDS OF LAKE COUNTY, FLORIDA. PARCEL 2 (EASEMENT ESTATE):	N
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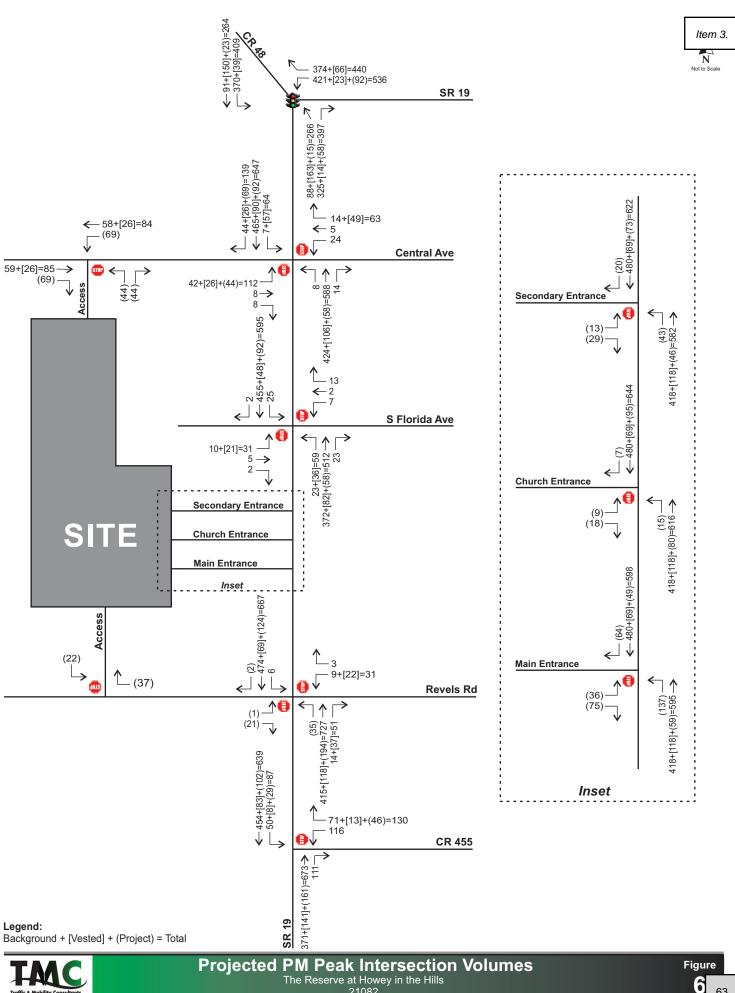




FIAL Consultants

Projected AM Peak Intersection Volumes The Reserve at Howey in the Hills 21082

Figure 62





TOWN OF HOWEY-IN-THE-HILLS, FLORIDA

GENERAL LAND DEVELOPMENT APPLICATION

101 N. Palm Avenue, Howey-in-the-Hills, Florida 34737 Phone: (352) 324-2290 • Fax: (352) 324-2126

Date Received: Application ID: Received By: **REQUESTED ACTION** Comp Plan Amendment Variance Site Plan (check one below) X PUD Rezoning Preliminary 🗌 Final Conditional Use Subdivision Minor Land Development Code Text Other Subdivision (check one below) Preliminary Subdivision **Final Subdivision Final Plat** Describe Request: PUD Major Amendment to Modify Boulevard Typical Section

APPLICANT INFORMATION:								
Name:	E-Mail:							
Address:	Phone: Fax:							
Owner Agent for Owner	Attorney for Owner							
OWNER INFORMATION:	OWNER INFORMATION:							
Name: <u>HOW</u> EY IN THE HILLS LTD	E-Mail:							
Address: C/O EASTON & ASSOC	Phone: <u>786-4</u> 37-5806							
—— 10165 NW 19TH ST	Fax:							
MIAMI FL 33172								

64

	Item 3.
PROPERTY INFORMATION:	
Address:	
General Location: <u>SOUTH OF #2 ROAD</u> , NORTH OF SR19	
Current Zoning: <u>PUD</u> Current Land Use: <u>VMU</u>	
Parcel Size: 375.2 AC +/- Tax Parcel #: ATTACHED	
Legal Description Attached X Yes No Survey Attached X Yes No	

Pre-Application Meeting Dat	e: <u>ATTA</u> CHED (Attach Pre-Application Form,)
Application Fee: \$ <u>3,000</u>	Λ Λ .	1/01/00
Applicant's Signature:	10012	6/26/22
	(Signature)	' (Ďate)
Re	(Print)	
Owner's Signature: (Provide letter of Authorization)	(Signature)	(Date)

(Print)

Applications must be complete to initiate the review process.



HOWEY IN THE HILLS, LTD. 10165 NW 19th Street Miami, Florida 33172 (786)437-5806 EWEaston@TheEastonGroup.com

April 14, 2021

TOWN OF HOWEY-IN-THE-HILLS 101 N. Palm Avenue Howey-in-the-Hills, FL 34737

Re: Letter of Authorization

To Whom it may Concern:

The purpose of this letter is to provide notice that Howey in the Hills LTD as owner of The Reserve at Howey in the Hills, hereby authorizes Lennar Homes, LLC. as the applicant for the attached Modification to PUD Ordinance 2004-322 and to act on our behalf in regard to amending the PUD and any related approvals.

If you have any question or concerns, please do not hesitate to contact me.

Respectfully,

HOWEY IN THE HILLS, LTD., a Florida limited liability company

DocuSigned by: Edward W. Easton By: Print Name: Edward W. Easton

Item 3.

6675 Westwood Blvd, 5th Floor, Orlando, FL 32821





August 26, 2022

Item 3.

Town of Howey-In-The-Hills Planning & Zoning Dept. 101 N. Palm Avenue Howey-In-The-Hills, FL 34737

RE: Reserve at Howey-in-the-Hills PUD Major Amendment PUD Ordinance 2004-322 CWI Job # 21-04-0008

Dear Town of Howey in the Hills,

Please find the following items attached for the Major Amendment to the PUD to modify the Boulevard Section through the residential area of the PUD:

- Completed Application
- Letter of Authorization from the owner to Lennar
- 2 copies PUD Plans and supporting Roadway Section Drawings
- Flashdrive with Digital Copies
- \$3,000.00 Fee

Please let me know if you need anything else to be scheduled on the September 22, 2022 Planning and Zoning agenda and the following Town Council Meeting on October 10, 2022 and October 24, 2022.

Sincerely, Connelly & Wicker Inc.

Richard C. Welch, P.E. Project Manager



TMHConsulting@cfl.rr.com 97 N. Saint Andrews Dr. Ormond Beach, FL 32174 PH: 386.316.8426

MEMORANDUM

TO:	Town of Howey-in-the-Hills Planning Board
CC:	J. Brock, Town Clerk
FROM:	Thomas Harowski, AICP, Planning Consultant
SUBJECT:	The Reserve/Hilltop Groves First Amendment to the Development Agreement
DATE:	September 12, 2022

The developers of the residential portion of The Reserve development have asked for an amendment to the approved development agreement to make some revisions to the preliminary subdivision plan that qualify as major amendments under the terms of the adopted PUD agreement. The applicants have submitted a list of plan adjustments on the updated master site plan map including a number key locating each revision. Some of these adjustments could be considered minor amendments, but since the plan was undergoing a major amendment review, we elected to include all the revisions in the proposed update.

The Town's Development Review Committee reviewed the proposed amendments at their meeting on September 8, 2022 and have prepared the following recommendations for the Planning Board's consideration.

1. The applicants are requesting a revised design for the central collector road, identified as Road A on the preliminary subdivision plan, from four lanes to two lanes through the residential portion of The Reserve development. Most of the portion of Road A through the commercial portion of the project will remain as a four-lane section. In support of the requested change the applicants have submitted an analysis from their traffic engineer documenting that a two-lane road is sufficient to support the projected traffic volumes. The Town engineer has reviewed the request and supports the finding that the two-lane section is adequate for the traffic demand, and that with protected left turn lanes can result in reduced speed and increased safety within the project.

The applicants have noted that the road through the commercial area has been increased the right-of-way from 90 feet to 100 feet as shown on the roadway cross-sections. The wider right-of-way is proposed to give more room to fit all the necessary components in the four-lane road section. The intersection with SR 19 has moved south about 250 feet, and driveway connections for the commercial area are shown.

(Refer to map items 2, 3, 4 and 12.)

- 2. The applicants are proposing minor adjustments to Roads D and F and the adjoining lots to reduce the amount of road area and improve safety while still providing access to the adjacent lots. (Refer to map item 1.)
- The applicants are requesting revisions to Roads B and N along with adjacent lots to improve the connection between Phase 2 and Phase 3. This change improves traffic flow and reduces the number of lots on closed-end streets. (Refer to map item 6.)
- 4. The applicants are revising the collector road cross-sections to include the minimum 10-foot bicycle/pedestrian pathway that extends from SR 19 to Number Two Road. This facility has been a commitment of the project, but roadway cross-section submitted prior to this plan did not fully identify the bicycle/pedestrian path. (Refer to the revised cross-sections for the two-lane and four-lane sections.)
- Residential lots along Road AA and Road Z have been changed to the 50 x 115 lot type rather than the originally proposed 50 x 80 lot type. (Refer to map item 8.)
- 6. The staff has asked for the addition of a street crossing detail where the bicycle/pedestrian path crosses a roadway. This detail is intended to limit the opportunity for cars to inadvertently drive on the path. They have agreed to provide a detail.
- 7. The applicants have been requested to update the totals of residential units by type and phase. (The revised totals for units by phase are shown on the table on the left side of the master site plan.)
- 8. The applicants have been requested to provide a maximum impervious area for each type of residential unit. The lack of a maximum impervious area has been creating some review issues with our other PUD-based neighborhoods. (The maximum imperious areas by unit type are shown on the table on the left side of the master site plan.)

The Development Review Committee supports these eight revisions to the approved development agreement.

The revised plan includes several other small adjustments that are noted here as part of the overall amendment. Please note the following revisions:

• The emergency access via Mare Avenue has been removed. The revised street pattern between Phase 2 and Phase 3 will serve this purpose. (Refer to map item 5.)

- The driveway connection to Talichet Phase 2 has been removed as the connection is no longer possible. (Refer to map item 7.)
- A revised roadway connection in Phase 4 has been added. (Refer to map item 9.)
- Stormwater pond locations have been added to Phase 4. (Refer to map item 10.)
- The phase line for Phase 1 has been adjusted. (Refer to map item 11)

During the review, the DRC also agreed that the intersection designs of the primary collector road at SR 19 and Number Two Road will be considered minor amendment to the development agreement as the permitting agencies (FDOT and Lake County) will ultimately be directing the intersection designs. The preliminary subdivision plan will also provide for a driveway connection from the collector road to the Town's public safety parcel at the intersection with the primary collector road. It is expected that this connection will provide an opportunity to reduce fire and police response times to properties within the project.



TMHConsulting@cfl.rr.com 97 N. Saint Andrews Dr. Ormond Beach, FL 32174 PH: 386.316.8426

MEMORANDUM

TO:	Howey-in-the-Hills Development Review Committee
CC:	J. Brock, Town Clerk
FROM:	Thomas Harowski, AICP, Planning Consultant
SUBJECT:	The Reserve/Hilltop Groves First Major Amendment
DATE:	August 30, 2022
D/(1 E.	14640100, 2022

The development team has submitted an application to amend the approved development agreement. This is the first major amendment to the adopted development agreement. The amendment has been triggered by the proposal to reduce the central collector road from four lanes to two lanes for most of the project length, but there are other revisions to the approved development plan that will need to be addressed and included as part of the amendment.

The Town will be adopting a revised preliminary subdivision plan as part of the amendment, but the adopting ordinance should include a list of all amendment items, so it is clear to all parties what is being approved. Once final action is taken by the Town Council, the adopting ordinance needs to be recorded in the public records to provide a document trail of the fully approved project. The planning comments are as follows:

- 1. The applicant should present a list of all revisions from the original approved preliminary subdivision plan so that the Town can be sure all items have been reviewed and included in the amending ordinance.
- 2. The applicant should review the text portions of the adopting ordinance to determine if there are other revisions that are needed or desired.
- 3. As one example, the plan set needs to include a maximum impervious area for each lot type. The lack of an impervious area number has been an issue with other new developments and needs to be added. The maximum impervious area then needs to be used as an input into the stormwater system design or an explanation needs to be provided as to why a different number is used. This number can be added to the plan set if desired rather than included in the text of the agreement. The maximum impervious area might be different for each of the housing types.

- 4. The revised roads D and F and the revised lot adjustments are recognized and acceptable. These changes could be considered a minor amendment, but we will include them in the overall amendment since other items are needed.
- 5. The reduction in the width of the central collector road from 4-lanes to 2-lanes with left turn lanes is acceptable from a speed control and safety perspective, but the applicant's traffic engineer needs to submit an analysis demonstrating that the reduced facility will still accommodate the projected traffic.
- 6. The transition from the 4-lane segment in the commercial area to the 2-lane segment in the residential area should be moved further north to allow more flexibility in locating access points to the commercial parcel.
- The intersection designs at SR 19 and Number 2 Road are not fully detailed in the approved plan set. These intersection designs will be directed by FDOT and Lake County through their respective permit processes. When permitting is completed, these will be considered minor amendments to the development agreement.
- 8. The proposed amendment includes a revised road connection between Phase 2 and Phase 3 with the new alignment following Road B and Road N. The revised road alignment and associated adjustment to the residential lots is recommended for approval.
- 9. The new plan proposes a revision to the road network within the townhouse area adjacent to Number 2 Road. The approved plan shows a connection Number 2 Road at the west end of this road and not a terminal point. This area has 78 units and therefore requires a second access point. The applicant needs to provide for a second access point or reduce the number of units in the area below 50 units.
- 10. The revised plan proposes to eliminate the connection to the Town parcel at the intersection of the collector road and Number 2 Road. The Town still needs to retain the option to include a driveway connection. An access at this point could reduce emergency services response times to the project. To facilitate future driveway options, the collector road right-of-way needs to abut the Town parcel for the full length of the parcel if possible.
- 11. The revised plan proposes to eliminate the connection from Road EE/FF to Revels Road. This deletion is not acceptable. The approved design needs to be retained.
- 12. The applicant needs to revise the unit totals by type of unit and phase to reflect the current plan.
- 13. The proposed lot pattern along Road AA and Road Z appears to be different than the currently approved plan. The Town needs to verify that the unit totals by type remain unchanged or approve any revision to the product mix.

- 14. The revised cross-section for the collector road (Road A) shows 4-foot bicycle lanes on the 2-lane segment and no bicycle lane on the 4-lane segment. The agreement and the cross-section in the approved plan set shows a separate bicycle path. Both cross-sections need to be revised to reflect the bicycle path. Adding the two bicycle lane areas to one of the sidewalks will allow for a 12-footwide bicycle/pedestrian facility on one side of the road and save one foot of paved area. A decision should be made as to which side of Road A the bicycle path is to be located.
- 15. An intersection detail needs to be added where the bicycle path crosses intersection. The bicycle path should have some type of divider to make it clear automotive traffic is not permitted. Some type of pavement markings are appropriate as well.
- 16. With the 2-lane design, the central median has been reduced from 14-feet for the approved design to about 9 feet with the proposed design. This dimension seems a little skimpy for a quality landscape program and might be less than the minimum width needed for a protected left turn bay. The median in the 2-lane and 4-lane segments should be retained at 14 feet.

GRIFFEY ENGINEERING, INC.

September 5, 2022 Hillside Groves – PUD Amendment Engineering Review Comments Page 1

1. Provide a volume and capacity evaluation to show that the 2-lane boulevard will be able to handle the projected future traffic.

2. The master site plan shows the multiuse trail on the east side of the spine road, but the cross-sections don't. Add the trail to the cross-sections, and label the trail on the site plan. Both cross-sections should call out a 5' sidewalk on the west side and a 10' trail on the east side.

3. The cross-section for the 4-lane boulevard needs to show 24' pavement width, not 21'.

4. Move the commercial driveway intersection further north to provide additional left turn lane decal & storage length for northbound vehicles.

5. All legs of all intersections need to provide full pedestrian accommodation including ADA curb ramps & crosswalks. Crosswalks are to be per FDOT Design Standards 2017-18 Index 17346 Sheet 12 of 17. The crosswalks at stop conditions should be standard crosswalks. The crosswalks not at a stop condition should be special emphasis.

HILLSIDE GROVE

LIFT STATION #1

DESIGN REPORT

FOR

Lennar Homes - Orlando 6750 Forum Drive, Suite 310 Orlando, FL 32821 (904) 431-6499

PREPARED BY:



Connelly & Wicker, Inc.

10060 Skinner Lake Drive, Suite 500 Jacksonville, Florida 32246 Florida Registry: 3650 L.A. Number: LC26000311 Phone: (904) 265-3030 Fax: (904) 265-3031 www.cwieng.com

DATE: 10/7/2022

CWI Project No.: 21-04-0008

Connelly & Wicker, Inc.

HILLSIDE GROVE Index Sheet

Ta	ole of Contents	P	age	es
A	Cover Sheet		1	
3	Index Sheet		2	
2	Project Summary		3	
D	Pump Station #1 Forcemain Calculations		4	
E	Pump Station #1 Wetwell Calculations		5	
F	Pump Station #1 Buoyancy Calculations		6	
G	Pump Station #1 Pump Selection Data		7	
н	Pump Station #1 WaterCAD Analysis (Manifold Condition)			
	Network Preview Junction Report		8 9	
	Pipe Report		10	
	Pump Report Rump Definition Detailed Reports	40	11	22
	Pump Definition Detailed Reports Reservior Report	12	- 24	23
	System Head Curve Detailed Report	25	-	26
	Pump Station #1 WaterCAD Analysis (Runout Condition)			
	Network Preview		27	
	Junction Report		28	
	Pipe Report Pump Definition Detailed Report	30	29 -	31
	Pump Report	50	- 32	51
	Reservior Report		33	
	System Head Curve Detailed Report	34	-	35
I	Summary of Required vs Modeled Pump Station Flows		36	
۱PF	ENDIX		37	
Ana	ysis of Existing Network Condition to Establish Manifold Pump Single Design Point Curve			
a.	Existing Network Condition Network Preview		38	
).	Head Condition Pump Report		39	
	p Station #1 Pump Data	40		47
) .	Flygt Pump Data and Performance Curve	40	-	47
	mation Provided by Griffey Engineering, Inc and St. Johns River Water Management District		10	
d. ∋.	Wastewater Network Diagram (provided by Griffey Engineering) Wastewater Master Plan Excerpts (Prepared by BESH, provided by Griffey Engineering)	49	48 -	57
	Venezia South Construction Plan Excerpts (From SJRWMD Website)	58	-	61
J.	Venezia North Construction Plans Excerpts (aka. Talichet, From SJRWMD Website)	62	-	64
۱.	Town Hall Lift Station Details (Prepared and provided by Griffey Engineering)		65	
	Town Hall Lift Station Details (Prepared and provided by Griffey Engineering) Lakeshore Lift Station Details (Prepared and provided by Griffey Engineering) THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JUSTIN E. WILLIAMS JUSTIN E. WILLIAMS Frepared under the direction Williams TO THE SEAL PRINTED STATE OF STATE OF STATE OF COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND SEALED AND TO THE SEAL PRINTED DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND TO THE SEAL PRINTED DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND TO THE SIGNATURE		66	
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	MUST BE VERIFIED ON ANY			

GENERAL SITE DESCRIPTION

THE PROJECT

The proposed development is located within Lake County, Florida (Town of Howey in the Hills) within the Town of Howey in the Hills service area. The project is located west of State Road 19 (South Palm Avenue) and Taylor Memorial Cemetery, north of Revels Road, and south of Number 2 Road. The proposed development will be constructed in 4 phases and include up to 728 single family units. Lift Station #1 will serve up to 640 of the proposed residential units.

PUMP STATION

The pump station is located on the western side of the property and more specifically is located south of Road "K", North of Road "C" and west of Road "A". The effluent will pump through a 6" force main to Road A where the forcemain will increase to 10" and extend to Number 2 Road right of way where it will connect to an existing 10" force main, and will ultimately connect to an existing wastewater treatment facility. (Refer CWI 21-04-0008 Water and Sewer Plans for connection details).

EXISTING CONDITIONS MODELING DATA

The connection head condition was determined by modeling the existing wastewater system based on data provided by Griffey Engineering, Inc. to Connelly and Wicker on September 23rd, 2022, Construction Plans obtained from the SJRWMD and Lidar data for existing grades. Information obtained from those documents are the basis for the existing conditions modeling.

A summary of the peak flow requirements from each of the existing system pump stations and the anticipated flows modeled as part of these calculations is included.

DESIGN ANALYSIS

The modeling for this system was accomplished using Bentley OpenFlows WaterCad CONNECT Edition Update 3.

DESIGN OF SANITARY LIFT STATION

Connelly & Wicker, Inc.

Project Name:	HILLSIDE GROVE
Project No:	21-04-0008
Date:	October 7, 2022

COMPUTATION OF AVERAGE DAILY FLOW

Type of Development	Units	Average Flow (GPD)	1	Unit	G.P.D.	G.P.M.
Phase 1			/	Unit	0	0.00
Single Family Residential	245	300	/	Unit	73500	51.04
			/	Unit	0	0.00
Phase 2			/	Unit	0	0.00
Single Family Townhomes	146	300	/	Unit	43800	30.42
Phase 3 (Portion)			/	Unit	0	0.00
Single Family Residential	47	300	1	Unit	14100	9.79
Phase 4			1	Unit	0	0.00
Single Family Residential	202	300	/	Unit	60600	42.08
			/	Unit	0	0.00

Average Daily Flow = <u>192000</u> G.P.D. = <u>133.33</u> G.P.M.

Runout Peaking Factor = (Per CSM Section 17 Part 1.03.C) Total Peak Flow = $(A.D.F.)^*(P.F.)$ = 400 G.P.M. Use Total Peak Flow = Q = 400 G.P.M.

FORCE MAIN SIZE

Maximum Flow in Pipe	=	Q(G.P.M.)	* $\left(\frac{1 \text{ Cu.Ft.}}{7.48 \text{ Gal.}}\right)$ * $\left(\frac{1 \text{ Min.}}{60 \text{ Sec.}}\right)$) =_	0.891	_Cfs.
----------------------	---	-----------	---	------	-------	-------

Pipe Diameter			Cross-Section	Flow (Cfs.)	Flow	/elocity	
1. Use	4.27	Inch Pipe	0.099	Sq. Ft.	0.891	8.96	Ft/Sec.
2. Use	6.13	Inch Pipe	0.205	Sq. Ft.	0.891	4.35	Ft/Sec.
3. Use	8.04	Inch Pipe	0.353	Sq. Ft.	0.891	2.53	Ft/Sec.
4. Use	9.87	Inch Pipe	0.531	Sq. Ft.	0.891	1.68	Ft/Sec.
5. Use	11.73	Inch Pipe	0.750	Sq. Ft.	0.891	1.19	Ft/Sec.

Use Force Main of Diameter = 6.13 Inches

3.00

Item 3.

DESIGN OF WET WELL

Use a cycle time (T) =	10 Minu	ites					
Storage Required (Vr) =	(T*Q) / 4 = 10	Min. * (<u>400</u>	G.P.M. 4	$*\left(\frac{1 \text{ Cu.Ft.}}{7.48 \text{ Gal.}}\right)$	= 133.69	Cu.Ft.	
Storage Height Require			- 00		0.00		10.00
Diameter of We Storage Heig	· /	4.00 10.64	5.00 6.81	6.00 4.73	8.00 2.66	10.00 1.70	12.00 1.18
Provide Wet Well Diame	eter =	8.00 F	=t.	Storage Heigh	t Required (Vr) =	2.66	Ft.
Provide Storage Height	=	2.70 F	=t.	Actual Cycle T	ïme =	10	Min.
Volume Provide (Vp)	=	135.72 (Cu.Ft.				
	Since Vr < Vp ,	Then, Adequ	ate Storag	e is Provided			
		WET WEL	L INFOR	MATION			
Wet Well Diameter Wall Thickness (t) Over Hang (L)	= 8.00 Ft. = 0.75 Ft. = 1.00 Ft.			ction Plans For Antiguration	Actual		
Top El. Grade El.	88.40 87.90			1		Ī	+
Effluent El. (Force Main)	85.40	_				₩ ₩	3
Control El.	69.60	~ 5	- [*]				
Alarm El.	69.10						
Lag Pump On El.	68.60	-	1				
Lead Pump On El.	68.10	-					
All Pumps Off El.	65.40	<u> </u>					
Bottom El.	63.40]	
Bottom Pad Thickness	1.00			11.50	Ft.		

LIFT STATION FOR: HILLSIDE GROVE PROJECT NO.: 21-04-0008

PROJECT NO.: 21-0 Connelly & Wicker, Inc.

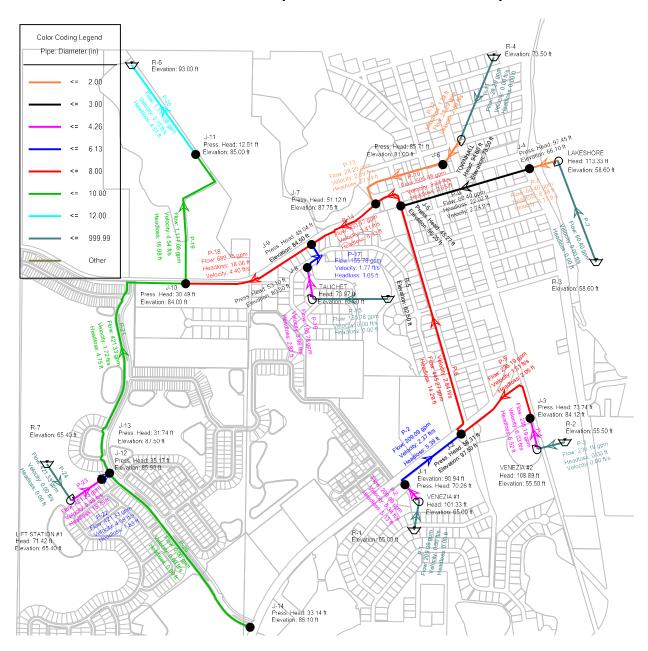
	VERIFY THE STABILITY OF THE WET WELL									
Assume:										
	Submerged Unit Weight of Soil	=	60	Lbs. Per Cu.Ft.						
	Unit Weight of Fiberglass	=	110	Lbs. Per Cu.Ft.						
	Unit Weight of Concrete	=	150	Lbs. Per Cu.Ft.						
	-	Angle of Repose ϕ =	5	Degrees						
Wet Well:				-						
	Outer Diameter of Wet Well (D _{WW})	=	9.50	Ft.						
	Diameter of Base	=	11.50	Ft.						
	Thickness of Top Cover	=	0.83	Ft.						
	Thickness of Walls (t)	=	0.75	Ft.						
	Thickness of Bottom Pad	=	1.00	Ft.						
	Depth of Wetwell below Grade (H)	=	24.50	Ft.						
	Width of Collar	=	1.00	Ft.						
	Depth of Collar (if any)	=	0.00	Ft.						
	Hatch Size	=	36'	' X 60"						
Assume S	Saturated Conditions									
	Ground Water Elevation	=	87.90							

SELF WEIGHT OF WET WELL

Self Weight of Slabs (Lbs.) = (Volume) * (Unit Weight)

Weight of Soil Acting on Wet Well* (Lbs.) = $(V_s)^*$ (Unit Weight) Based on Angle of Repose (ϕ)							
$V_{s} = \left(\pi^{*}\right)$	$(H) * \left((L)^{2} \right)$	$^{2}+2\left(\frac{D_{WW}}{2}\right) (L)$	$+\left(\frac{D_{WV}}{2}\right)$	(\underline{V}) (H)(Tan(ϕ)) + (L)(I	H)(Tan(\$))+	-(<u>(((H)(</u> Tan 3	$((\phi)))^2$
Top Cover	<u>\</u> :	<u>/olume (CF)</u> 46.38	*	Unit Weight (Ib/CF) 150	= =	Force 6957.33	Lbs. Lbs.
Bottom Pad	:	103.87	*	150	=	15580.34	Lbs.
Collar		0.00	*	150	=	0.00	Lbs.
Walls	:	498.31	*	150	=	74745.85	Lbs.
Soil	:	1874.69	*	60	=	112481.56	Lbs.
				Total Dowr	ward Force:	209765.08	Lbs.
				UPLIFT FORC	E		
Uplift Force	= (Volu	ume Displaced)	* (Unit	Weight of Water)			
Uplift Force	=	1840.48	*	62.4	=	114846.10	Lbs.
				FACTOR OF SAF	ЕТҮ		
Factor of Sa	afety = —	Downward F Uplift Forc		- =	209765.08 114846.10	=	1.83

Pump Information - Flygt				
Pump Type			2 Submersible Pumps	
Pump Model			NP 3153 HT 3~ 456	
Motor			N3153.660 21-15-4AA-W 15hp	
H.P. / Voltage / Phases / Amps			15 HP / 230V / 3 Phase / 32 A	
RPM			1755	R.P.M.
Impeller Diameter			229	mm
Discharge Pipe Size			4	Inches
Force Main Size			4	Inches
Design Point	400.00	GPM @	72.00	TDH
Operating Point - Manifold Condition	421.33	GPM @	71.42	TDH
Operating Point - Runout Condition	515.45	GPM @	65.78	TDH



Scenario: Base (MANIFOLD CONDITIONS)

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			•	
Label	Demand (gpm)	Elevation (ft)	Pressure (psi)	Pressure Head (ft)
J-1	0.00	90.94	30.4	70.26
J-2	0.00	97.50	25.2	58.31
J-3	0.00	84.12	31.9	73.74
J-4	0.00	66.10	42.2	97.45
J-5	0.00	96.25	19.6	45.27
J-6	0.00	81.00	37.1	85.71
J-7	0.00	87.75	22.1	51.12
J-8	0.00	80.50	23.0	53.10
J-9	0.00	84.50	20.8	48.04
J-10	0.00	84.00	13.2	30.49
J-11	0.00	85.00	5.4	12.51
J-12	0.00	85.90	15.2	35.17
J-13	0.00	87.50	13.7	31.74
J-14	0.00	86.10	14.3	33.14

FlexTable: Junction Table (MANIFOLD CONDITIONS)

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FlexTable: Pipe Table (MANIFOLD CONDITIONS)

		-									
Label	Diamete r (in)	Length (User Defined)	Length (ft)	Materi al	Hazen- William s C	Minor Loss Coefficie	Flow (gpm)	Veloc ity (ft/s)	Headloss (Friction) (ft)	Headloss (Minor) (ft)	Headloss (ft)
		(ft)				nt (Unified)					
P-1	999.00	1	1	PVC	120.0	0.000	209.09	0.00	0.00	0.00	0.00
P-2	4.00	28	28	PVC	120.0	9.430	209.09	5.34	0.95	4.18	5.13
P-2	6.00	0	927	PVC	110.0	2.580	209.09	2.37	5.16	0.23	5.39
P-3	999.00	1	1	PVC	120.0	0.000	236.19	0.00	0.00	0.00	0.00
P-4	4.00	28	28	PVC	120.0	9.430	236.19	6.03	1.19	5.33	6.52
P-5	8.00	0	1,310	PVC	120.0	3.770	236.19	1.51	1.92	0.13	2.05
P-6	8.00	0	2,771	PVC	120.0	9.340	445.27	2.84	13.12	1.17	14.29
P-7	999.00	1	1	PVC	120.0	0.000	60.40	0.00	0.00	0.00	0.00
P-8	2.00	28	28	PVC	120.0	9.430	60.40	6.17	2.80	5.58	8.38
P-9	3.00	0	1,548	PVC	120.0	4.170	60.40	2.74	21.54	0.49	22.02
P-10	8.00	0	411	PVC	120.0	1.190	505.68	3.23	2.46	0.19	2.65
P-11	999.00	1	1	PVC	120.0	0.000	-28.29	0.00	0.00	0.00	0.00
P-12	2.00	18	18	PVC	120.0	7.270	28.29	2.89	0.44	0.94	1.38
P-13	2.00	0	1,132	HDPE	120.0	0.000	28.29	2.89	27.84	0.00	27.84
P-14	8.00	0	884	PVC	120.0	2.580	533.97	3.41	5.86	0.47	6.33
P-15	999.00	1	1	PVC	120.0	0.000	155.78	0.00	0.00	0.00	0.00
P-16	4.00	28	28	PVC	120.0	9.430	155.78	3.98	0.55	2.32	2.87
P-17	6.00	0	362	PVC	120.0	1.190	155.78	1.77	0.99	0.06	1.05
P-18	8.00	0	1,578	PVC	120.0	4.170	689.75	4.40	16.80	1.26	18.06
P-19	10.00	0	1,779	PVC	120.0	4.770	1,111.08	4.54	15.45	1.53	16.98
P-20	12.00	0	1,262	PVC	120.0	0.000	1,111.08	3.15	4.51	0.00	4.51
P-21	10.00	0	3,027	PVC	120.0	8.490	421.33	1.72	4.36	0.39	4.75
P-22	6.13	0	117	PVC	120.0	0.000	421.33	4.58	1.83	0.00	1.83
P-23	4.26	28	28	PVC	120.0	9.430	421.33	9.48	2.56	13.18	15.75
P-24	999.00	1	1	PVC	120.0	0.000	421.33	0.00	0.00	0.00	0.00
P-25	10.00	0	2,429	PVC	120.0	3.900	0.00	0.00	0.00	0.00	0.00

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Item	3
110111	J.

Label	Pump Definition	Elevation (ft)	Hydraulic Grade (Suction) (ft)	Hydraulic Grade (Discharge) (ft)	Flow (Total) (gpm)	Pump Head (ft)	
LAKESHORE	LAKESHORE	58.60	58.60	171.93	60.40	113.33	
LIFT STATION #1	Flygt Pump	65.40	65.40	136.82	421.33	71.42	
TALICHET	TALICHET	62.50	62.50	136.47	155.78	73.97	
TOWNHALL	TOWNHALL	73.50	73.50	168.10	28.29	94.60	
VENEZIA #1	VENEZIA #1	65.00	65.00	166.33	209.09	101.33	
VENEZIA #2	VENEZIA #2	55.50	55.50	164.39	236.19	108.89	

FlexTable: Pump Table (MANIFOLD CONDITIONS)

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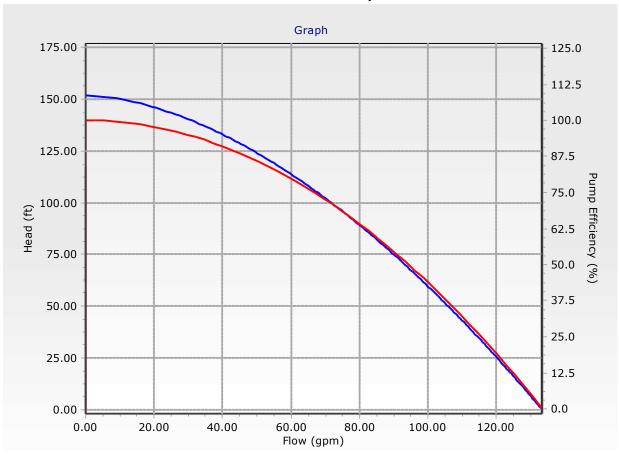
Item 3.

Element Details ID 173 Notes LAKESHORE Label **Pump Curve** Flow Head (gpm) (ft) 0.00 157.00 3.00 155.00 9.00 150.00 17.00 145.00 24.00 140.00 32.00 135.00 39.00 130.00 47.00 125.00 53.00 120.00 61.00 115.00 65.00 110.00 69.00 105.00 73.00 100.00 77.00 95.00 81.00 90.00 84.00 85.00 87.50 80.00 90.00 75.00 93.00 70.00 97.00 65.00 99.00 60.00 102.50 55.00 105.00 50.00 108.00 45.00 Pump Efficiency Type Best Motor Efficiency 100.0 % Pump Efficiency Type Efficiency Point **BEP Efficiency** 100.0 % Is Variable Speed Drive? False **BEP Flow** 0.00 gpm Transient (Physical) Inertia (Pump and Motor) 0.000 lb.ft² SI=25, Specific Speed US=1280 Speed (Full) 0 rpm Reverse Spin Allowed? True

Pump Definition Detailed Report: LAKESHORE (MANIFOLD CONDITIONS)

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Pump Definition Detailed Report: LAKESHORE (MANIFOLD CONDITIONS)

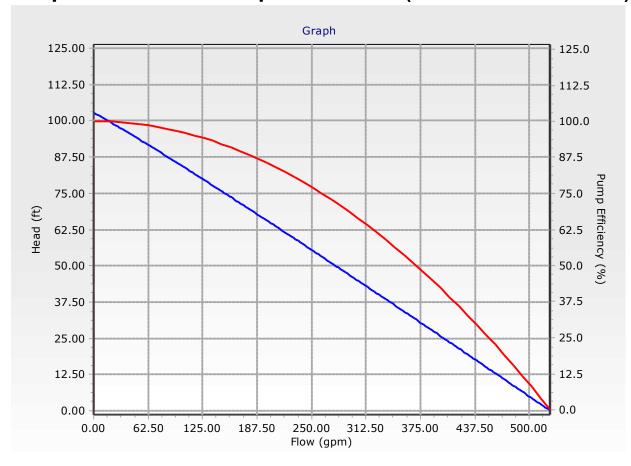
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Element Details			
ID	183	Notes	
Label	TALICHET		
Pum	p Curve		
Flow	Head		
(gpm)	(ft)		
0.0			
18.6			
37.2			
55.8			
74.5			
93.1			
111.7			
130.3 ⁴			
148.9			
167.5			
186.1			
204.7			
223.4			
242.02			
260.6			
279.2			
297.8			
316.4			
335.0			
353.0			
372.3			
390.9			
409.5			
428.1			
446.7			
480.4	5 6.91		
	20		
Pump Efficiency Typ		Malas Eff. 1	
	Best	Motor Efficiency	100.0 %

Pump Definition Detailed Report: TALICHET (MANIFOLD CONDITIONS)

Pump Efficiency Type	Best Efficiency	Motor Efficiency	100.0 %
r amp Emclency Type	Point		
BEP Efficiency	100.0 %	Is Variable Speed Drive?	False
BEP Flow	0.00 gpm		
Transient (Physical)			
Inertia (Pump and Motor)	0.000 lb·ft ²	Specific Speed	SI=25, US=1280
Speed (Full)	0 rpm	Reverse Spin Allowed?	True

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Pump Definition Detailed Report: TALICHET (MANIFOLD CONDITIONS)

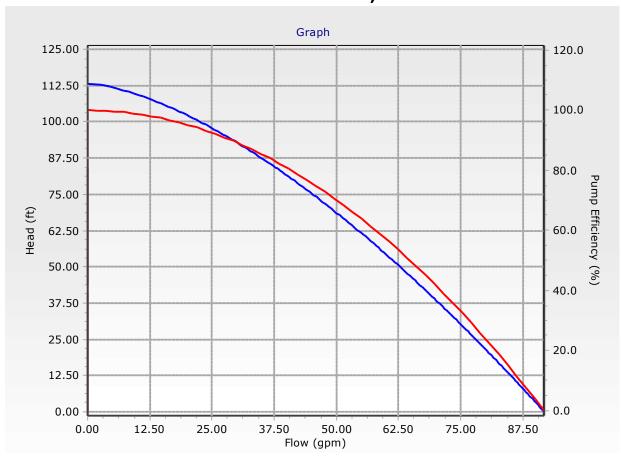
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Pump Definition Detailed Report: TOWNHALL (MANIFOLD CONDITIONS)

ID Label	178 TOWNHALL	Notes	
Pump Cu			
-			
Flow (gpm)	Head (ft)		
0.00	114.20		
5.60	111.00		
11.40	108.00		
15.90	105.00		
20.00	102.00		
23.80	99.00		
27.10	96.00		
30.10	93.00		
33.00	90.00		
35.60	87.00		
38.10	84.00		
40.50	81.00		
42.90	78.00		
45.00	75.00		
47.70	72.00		
49.50	69.00		
51.80	66.00		
Pump Efficiency Type			
	Best	Motor Efficiency	100.0 %
Pump Efficiency Type	Efficiency Point		
BEP Efficiency	100.0 %	Is Variable Speed Drive?	False
BEP Flow	0.00 gpm		raise
	0.00 9011		
Transient (Physical)			
Inertia (Pump and Motor)	0.000 lb [.] ft ²	Specific Speed	SI=25, US=1280
Speed (Full)	0 rpm	Reverse Spin Allowed?	True

Element Details

Bentley Systems, Inc. Haestad Methods Solution Center 76 Watertown Road, Suite 2D Thomaston, CT 06787 USA +1-203-755-1666



Pump Definition Detailed Report: TOWNHALL (MANIFOLD CONDITIONS)

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Pump Definition Detailed Report: VENEZIA #1 (MANIFOLD CONDITIONS)

Element Details			
ID	59	Notes	
Label	VENEZIA #1		
Pump Definition Type			
Pump Definition Type	Design Point (1 Point)	Design Head	87.00 ft
Shutoff Flow	0.00 gpm	Maximum Operating Flow	0.00 gpm
Shutoff Head	0.00 ft	Maximum Operating Head	0.00 ft
Design Flow	294.00 gpm		
Pump Efficiency Type			
Pump Efficiency Type	Best Efficiency Point	Motor Efficiency	100.0 %
BEP Efficiency	100.0 %	Is Variable Speed Drive?	False
BEP Flow	0.00 gpm		
Transient (Physical)			
Inertia (Pump and Motor)	0.000 lb·ft ²	Specific Speed	SI=25, US=1280
Speed (Full)	0 rpm	Reverse Spin Allowed?	True

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Pump Definition Detailed Report: VENEZIA #1 (MANIFOLD CONDITIONS)

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Pump Definition Detailed Report: VENEZIA #2 (MANIFOLD CONDITIONS)

Element Details			
ID	163	Notes	
Label	VENEZIA #2		
Pump Definition Type			
Pump Definition Type	Design Point (1 Point)	Design Head	94.00 ft
Shutoff Flow	0.00 gpm	Maximum Operating Flow	0.00 gpm
Shutoff Head	0.00 ft	Maximum Operating Head	0.00 ft
Design Flow	326.00 gpm		
Pump Efficiency Type			
Pump Efficiency Type	Best Efficiency Point	Motor Efficiency	100.0 %
BEP Efficiency	100.0 %	Is Variable Speed Drive?	False
BEP Flow	0.00 gpm	-	
Transient (Physical)			
Inertia (Pump and Motor)	0.000 lb·ft ²	Specific Speed	SI=25, US=1280
Speed (Full)	0 rpm	Reverse Spin Allowed?	True

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Pump Definition Detailed Report: VENEZIA #2 (MANIFOLD CONDITIONS)

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Element Details ID 86 Notes Flygt Pump Label **Pump Curve** Flow Head (gpm) (ft) 98.68 0.10 48.71 95.04 97.33 91.49 145.95 88.07 194.57 84.78 243.19 81.63 291.80 78.62 340.42 75.72 389.04 72.91 437.66 70.16 486.28 67.45 534.90 64.75 583.51 62.05 632.13 59.34 680.75 56.59 729.37 53.81 777.99 50.99 826.61 48.12 875.22 45.19 923.84 42.17 972.46 39.08 1,021.08 35.89 1,069.70 32.64 1,132.07 28.43 Pump Efficiency Type

Pump Definition Detailed Report: Flygt Pump (MANIFOLD CONDITIONS)

Pump Efficiency Type			
Pump Efficiency Type	Best Efficiency Point	Motor Efficiency	100.0 %
BEP Efficiency	100.0 %	Is Variable Speed Drive?	False
BEP Flow	0.00 gpm		
Transient (Physical)			
francione (Frigoloar)			
Inertia (Pump and Motor)	0.000 lb·ft ²	Specific Speed	SI=25, US=1280
Speed (Full)	0 rpm	Reverse Spin Allowed?	True

21-04-0008 Manifold.wtg 10/7/2022

Bentley Systems, Inc. Haestad Methods Solution Center 76 Watertown Road, Suite 2D Thomaston, CT 06787 USA +1-203-755-1666



Pump Definition Detailed Report: Flygt Pump (MANIFOLD CONDITIONS)

21-04-0008 Manifold.wtg 10/7/2022 Bentley Systems, Inc. Haestad Methods Solution Center 76 Watertown Road, Suite 2D Thomaston, CT 06787 USA +1-203-755-1666

Item 3.

FlexTable: Reservoir Table (MANIFOLD CONDITIONS)

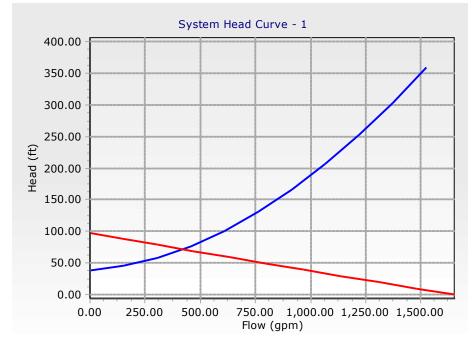
Label	Elevation (ft)	Flow (Out net) (gpm)
R-1	65.00	209.09
R-2	55.50	236.19
R-3	58.60	60.40
R-4	73.50	28.29
R-5	62.50	155.78
R-6	93.00	-1,111.08
R-7	65.40	421.33

21-04-0008 Manifold.wtg 10/7/2022 Bentley Systems, Inc. Haestad Methods Solution Center 76 Watertown Road, Suite 2D Thomaston, CT 06787 USA +1-203-755-1666

System Head Curve Detailed Report - System Head Curve - 1 (MANIFOLD CONDITIONS)

Element Details					
Label		tem Head Curve - 1	Number of Inte	ervals	10
Pump		LIFT ATION #1	Specify vertical	axis limits	False
Maximum Flow		1,523.97 gpm			
	Time (hours)				
		0.000			
System Head	System Head	Flygt Pump	Flygt Pump	1	
Curve @ 0.000	Curve @ 0.000	Flow	Head		
hours	hours	(gpm)	(ft)		
Flow (gpm)	Head (ft)				
0.00	38.24	1,654.66	0.00		
152.40	44.89	1,481.54	9.80		
304.79	57.70	1,309.36	19.60		
457.19	76.31	1,138.23	29.41		
609.59	100.58	968.29	39.21		
761.99	130.38	799.75	49.01		
914.38	165.63	632.85	58.81		
1,066.78	206.24	468.00	68.62		
1,219.18	252.13	305.88	78.42		
1,371.57	303.23	147.84	88.22		
1,523.97	359.46	0.00	98.02		

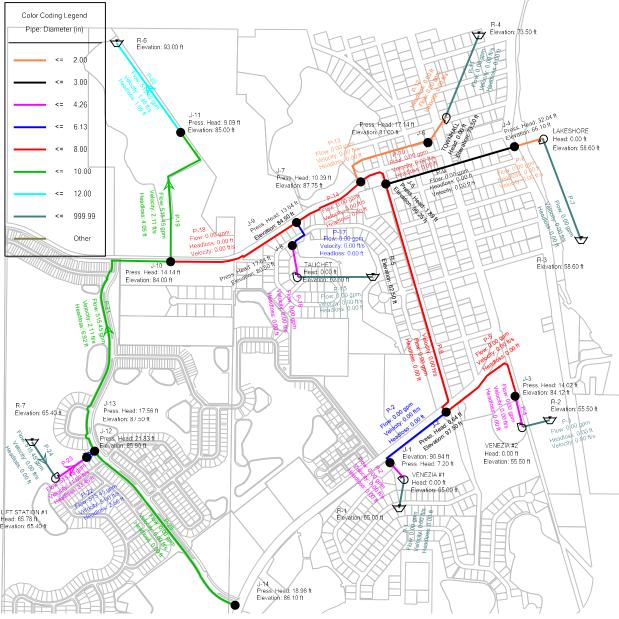
Bentley Systems, Inc. Haestad Methods Solution Center 76 Watertown Road, Suite 2D Thomaston, CT 06787 USA +1-203-755-1666



System Head Curve Detailed Report - System Head Curve - 1 (MANIFOLD CONDITIONS)

21-04-0008 Manifold.wtg 10/7/2022 Bentley Systems, Inc. Haestad Methods Solution Center 76 Watertown Road, Suite 2D Thomaston, CT 06787 USA +1-203-755-1666

Item 3.



Scenario: Base (RUNOUT CONDITIONS)

21-04-0008 Manifold.wtg 10/7/2022 Bentley Systems, Inc. Haestad Methods Solution Center 76 Watertown Road, Suite 2D Thomaston, CT 06787 USA +1-203-755-1666

· · · · · · · · · · · · · · · · · · ·						
Label	Demand	Elevation	Pressure	Pressure Head		
	(gpm)	(ft)	(psi)	(ft)		
J-1	0.00	90.94	3.1	7.20		
J-2	0.00	97.50	0.3	0.64		
J-3	0.00	84.12	6.1	14.02		
J-4	0.00	66.10	13.9	32.04		
J-5	0.00	96.25	0.8	1.89		
J-6	0.00	81.00	7.4	17.14		
J-7	0.00	87.75	4.5	10.39		
J-8	0.00	80.50	7.6	17.64		
J-9	0.00	84.50	5.9	13.64		
J-10	0.00	84.00	6.1	14.14		
J-11	0.00	85.00	3.9	9.09		
J-12	0.00	85.90	9.4	21.83		
J-13	0.00	87.50	7.6	17.56		
J-14	0.00	86.10	8.2	18.96		

FlexTable: Junction Table (RUNOUT CONDITIONS)

21-04-0008 Manifold.wtg 10/7/2022 Bentley Systems, Inc. Haestad Methods Solution Center 76 Watertown Road, Suite 2D Thomaston, CT 06787 USA +1-203-755-1666

FlexTable: Pipe Table (RUNOUT CONDITIONS)

				-		<u> </u>					
Label	Diamete	Length	Length	Materi	Hazen-	Minor	Flow	Veloc	Headloss	Headloss	Headloss
	r (')	(User	(ft)	al	William	Loss	(gpm)	ity	(Friction)	(Minor)	(ft)
	(in)	Defined)			s C	Coefficie nt		(ft/s)	(ft)	(ft)	
		(ft)				(Unified)					
P-1	999.00	1	1	PVC	120.0	0.000	0.00	0.00	0.00	0.00	0.00
P-1 P-2	999.00 4.00	1 28	28	PVC	120.0	9.430	0.00	0.00	0.00	0.00	0.00
P-2 P-2	4.00 6.00	20	28 927	PVC	120.0	2.580	0.00	0.00	0.00	0.00	0.00
P-2 P-3	999.00	1	927	PVC	120.0	0.000	0.00	0.00	0.00	0.00	0.00
P-4	999.00 4.00	1 28	28	PVC	120.0	9.430	0.00	0.00	0.00	0.00	0.00
P-4 P-5	4.00 8.00	20	20 1,310	PVC	120.0	9.430 3.770	0.00	0.00	0.00	0.00	0.00
P-5 P-6		0			120.0	9.340		0.00		0.00	0.00
P-0 P-7	8.00 999.00	1	2,771 1	PVC PVC	120.0	9.340 0.000	0.00 0.00	0.00	0.00 0.00	0.00	0.00
P-7 P-8	2.00	1 28	28	PVC	120.0	9.430	0.00	0.00	0.00	0.00	0.00
P-0 P-9	3.00	20	-	PVC			0.00	0.00	0.00	0.00	0.00
		-	1,548	PVC	120.0	4.170		0.00	0.00		0.00
P-10 P-11	8.00 999.00	0 1	411 1	PVC	120.0 120.0	1.190 0.000	0.00 0.00	0.00	0.00	0.00 0.00	0.00
		_	-	PVC	120.0	7.270	0.00	0.00			0.00
P-12	2.00 2.00	18	18	HDPE	120.0	0.000	0.00	0.00	0.00 0.00	0.00 0.00	0.00
P-13 P-14	2.00	0	1,132 884	PVC	120.0	2.580	0.00	0.00	0.00	0.00	0.00
P-14 P-15	999.00	0		PVC	120.0	0.000	0.00	0.00	0.00	0.00	0.00
	999.00 4.00	1	1 28	PVC	120.0	9.430	0.00	0.00	0.00	0.00	0.00
P-16	4.00 6.00	28	362	PVC				0.00	0.00		0.00
P-17	8.00	0 0		PVC	120.0	1.190	0.00 0.00	0.00	0.00	0.00 0.00	0.00
P-18 P-19		-	1,578	PVC	120.0 120.0	4.170 4.770	515.45	2.11		0.00	4.05
	10.00	0	1,779			-			3.73		
P-20	12.00	0	1,262	PVC	120.0	0.000	515.45	1.46	1.09	0.00	1.09
P-21	10.00	0	3,027	PVC	120.0	8.490	515.45	2.11	6.34	0.58	6.92
P-22	6.13	0	117	PVC	120.0	0.000	515.45	5.60	2.66	0.00	2.66
P-23	4.26	28	28	PVC	120.0	9.430	515.45	11.6 0	3.72	19.73	23.45
P-24	999.00	1	1	PVC	120.0	0.000	515.45	0.00	0.00	0.00	0.00
P-25	10.00	0	2,429	PVC	120.0	3.900	0.00	0.00	0.00	0.00	0.00

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Label	Flygt Pump		
Pump Curv	e		
Flow	Head		
(gpm)	(ft)		
0.10	98.68		
48.71	95.04		
97.33	91.49		
145.95	88.07		
194.57	84.78		
243.19	81.63		
291.80	78.62		
340.42	75.72		
389.04	72.91		
437.66	70.16		
486.28	67.45		
534.90	64.75		
583.51	62.05		
632.13 680.75	59.34 56.59		
729.37	53.81		
729.37	50.99		
826.61	48.12		
875.22	45.19		
923.84	42.17		
972.46	39.08		
1,021.08	35.89		
1,069.70	32.64		
1,132.07	28.43		
·	<u>.</u>		
Pump Efficiency Type			
	Best	Motor Efficiency	100.0 %
Pump Efficiency Type	Efficiency	·	
	Point		
BEP Efficiency	100.0 %	Is Variable Speed Drive?	False
BEP Flow	0.00 gpm		
Transient (Physical)			
Inertia (Pump and Motor)	0.000 lb·ft ²	Specific Speed	SI=25, US=1280
Speed (Full)	0 rpm	Reverse Spin Allowed?	True

Pump Definition Detailed Report: Flygt Pump (RUNOUT CONDITIONS)

Notes

86

21-04-0008 Manifold.wtg 10/7/2022

Element Details

ID

Bentley Systems, Inc. Haestad Methods Solution Center 76 Watertown Road, Suite 2D Thomaston, CT 06787 USA +1-203-755-1666



Pump Definition Detailed Report: Flygt Pump (RUNOUT CONDITIONS)

750.00 1,000.00 Flow (gpm) 1,250.00

1,500.00

500.00

21-04-0008 Manifold.wtg 10/7/2022

0.00

250.00

Bentley Systems, Inc. Haestad Methods Solution Center 76 Watertown Road, Suite 2D Thomaston, CT 06787 USA +1-203-755-1666

		-	-		-	
Label	Pump Definition	Elevation (ft)	Hydraulic Grade (Suction) (ft)	Hydraulic Grade (Discharge) (ft)	Flow (Total) (gpm)	Pump Head (ft)
LAKESHORE	LAKESHORE	58.60	58.60	98.14	0.00	0.00
LIFT STATION #1	Flygt Pump	65.40	65.40	131.18	515.45	65.78
TALICHET	TALICHET	62.50	62.50	98.14	0.00	0.00
TOWNHALL	TOWNHALL	73.50	73.50	98.14	0.00	0.00
VENEZIA #1	VENEZIA #1	65.00	65.00	98.14	0.00	0.00
VENEZIA #2	VENEZIA #2	55.50	55.50	98.14	0.00	0.00

FlexTable: Pump Table (RUNOUT CONDITIONS)

Item 3.

FlexTable: Reservoir Table (RUNOUT CONDITIONS)

Label	Elevation (ft)	Flow (Out net) (gpm)
R-1	65.00	0.00
R-2	55.50	0.00
R-3	58.60	0.00
R-4	73.50	0.00
R-5	62.50	0.00
R-6	93.00	-515.45
R-7	65.40	515.45

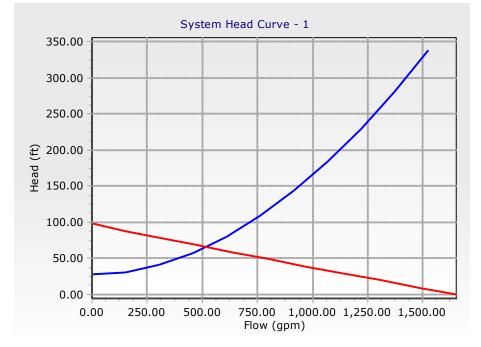
21-04-0008 Manifold.wtg 10/7/2022 Bentley Systems, Inc. Haestad Methods Solution Center 76 Watertown Road, Suite 2D Thomaston, CT 06787 USA +1-203-755-1666

Item 3.

System Head Curve Detailed Report - System Head Curve - 1 (RUNOUT CONDITIONS)

Element Details					
Label	System Head Curve - 1		Number of Inte	Number of Intervals	
Pump		LIFT TION #1	Specify vertical	Specify vertical axis limits	
Maximum Flow		1,523.97 gpm			
	Time (hours)				
		0.000			
				l .	
System Head Curve @ 0.000 hours	System Head Curve @ 0.000 hours	Flygt Pump Flow (gpm)	Flygt Pump Head (ft)		
Flow (gpm)	Head (ft)				
0.00	27.60	1,654.66	0.00		
152.40	31.24	1,481.54	9.80		
304.79	41.45	1,309.36	19.60		
457.19	57.89	1,138.23	29.41		
609.59	80.40	968.29	39.21		
761.99 914.38	108.88 143.26	799.75 632.85	49.01 58.81		
914.38 1,066.78	143.26	468.00	58.81 68.62		
1,219.18	229.46	305.88	78.42		
1,371.57	229.40	147.84	88.22		
1,523.97	338.61	0.00	98.02		

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System Head Curve Detailed Report - System Head Curve - 1 (RUNOUT CONDITIONS)

21-04-0008 Manifold.wtg 10/7/2022

Bentley Systems, Inc. Haestad Methods Solution Center 76 Watertown Road, Suite 2D Thomaston, CT 06787 USA +1-203-755-1666 WaterCAD [10.03.05.05] Page 2 of 2

SUMMARY OF REQUIRED VS MODELED FLOWS

Connelly & Wicker, Inc.

Project Name:HILLSIDE GROVEProject No:21-04-0008Date:October 6, 2022

COMPUTATION OF EXISTING SYSTEM FLOWS

Talichet Pump Station	Quantity	ADF	Unit	ADF (GPD)	ADF (GPM)	Peaking Factor	Peak Flow (GPM)
Single Family Residential	93	300	/ Unit	27900	19.4	3.72	72.1
* Data taken from Construct	ion Plans for	⁻ Venezia N	orth Subdiv	vision obtaine	ed from the	SJRWMD	

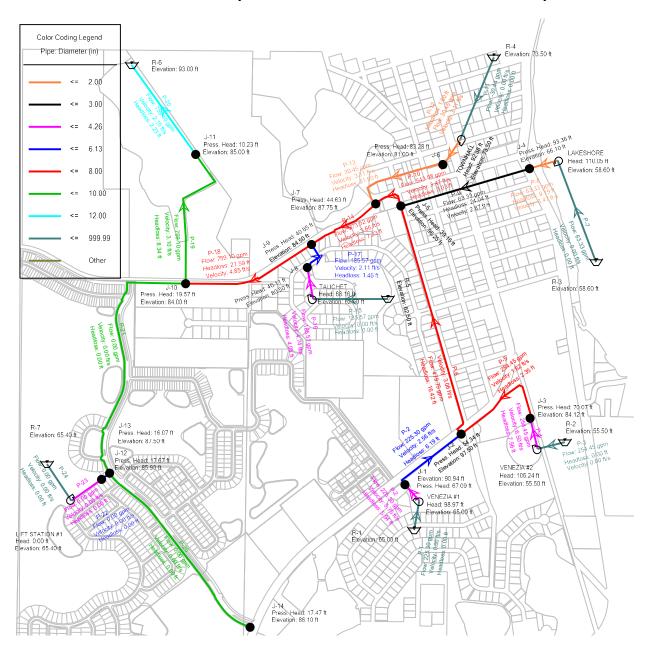
SUMMARY OF EXISTING PUMP STATION REQUIRED VS MODELED FLOWS

Pump Station Name	Required Peak Flow (GPM)	Peak Flow at Manifold Condition per Watercad Modeling (GPM)
Venezia Pump Station #1	133	209
* Data taken from Howey-In-The-Hills W	astewater Master Plan	dated October 2018
Venezia Pump Station #2	204	236
* Data taken from Howey-In-The-Hills W	astewater Master Plar	dated October 2018
Talichet Pump Station	72	156
* Data calculated above		
Lakeshore Pump Station	59	60
* Data taken Pump Station Engineering	Plan provided by Griffe	y Engineering, Inc.
Townhall Pump Station	26	28
* Data taken Pump Station Engineering	Plan provided by Griffe	y Engineering, Inc.

HILLSIDE GROVE PUMP STATION REQUIRED VS PROVIDED FLOWS

Pump Station Name	Required Peak Flow (GPM)	Flow at Manifold Condition per Watercad Modeling (GPM)	Flow at Runout Condition per Watercad Modeling (GPM)
Pump Station #1	400	421	515

APPENDIX



Scenario: Base (EXISTING NETWORK CONDITIONS)

21-04-0008 Manifold.wtg 10/7/2022

Bentley Systems, Inc. Haestad Methods Solution Center 76 Watertown Road, Suite 2D Thomaston, CT 06787 USA +1-203-755-1666 WaterCAD [10.03.05.05] Page 1 of 1

Label	Pump Definition	Elevation (ft)	Hydraulic Grade (Suction) (ft)	Hydraulic Grade (Discharge) (ft)	Flow (Total) (gpm)	Pump Head (ft)
LAKESHORE	LAKESHORE	58.60	58.60	168.65	63.33	110.05
LIFT STATION #1	Flygt Pump	65.40	65.40	103.57	0.00	0.00
TALICHET	TALICHET	62.50	62.50	130.66	185.57	68.16
TOWNHALL	TOWNHALL	73.50	73.50	165.88	30.45	92.38
VENEZIA #1	VENEZIA #1	65.00	65.00	163.97	225.30	98.97
VENEZIA #2	VENEZIA #2	55.50	55.50	161.74	254.45	106.24

FlexTable: Pump Table (EXISTING NETWORK CONDITIONS)

21-04-0008 Manifold.wtg 10/7/2022 Bentley Systems, Inc. Haestad Methods Solution Center 76 Watertown Road, Suite 2D Thomaston, CT 06787 USA +1-203-755-1666 WaterCAD [10.03.05.05] Page 1 of 1

NP 3153 HT 3~ 456

Patented self cleaning semi-open channel impeller, ideal for pumping in waste water applications. Modular based design with high adaptation grade.



Curves according to: Water, pure Water, pure [100%], 39.2 °F, 62.43 lb/ft³, 1.6888E-5 ft²/s

Technical specification



<image/>	the sector status of the value, pute water, pute (10000), 55.2 + (02.450)(F) (100000 + 20000) Head for the sector status of the sector
Configuration	
Motor number Installation type N3153.660 21-15-4AA-W P - Semi permanent, Wet 15hp	t
Impeller diameterDischarge diameter229 mm4 inch	
Pump information	Materials
Impeller diameter 229 mm	Impeller Stainless steel
Discharge diameter 4 inch	
lnlet diameter 150 mm	
Maximum operating speed 1755 rpm	
Number of blades 2	
Max. fluid temperature 40 °C	
Project Block 0	Created byGarrett QueenerCreated on10/7/2022Last update10/7/2022

Program version 65.0 - 9/27/2022 (Build 180)

NP 3153 HT 3~ 456

Technical specification

Motor - General

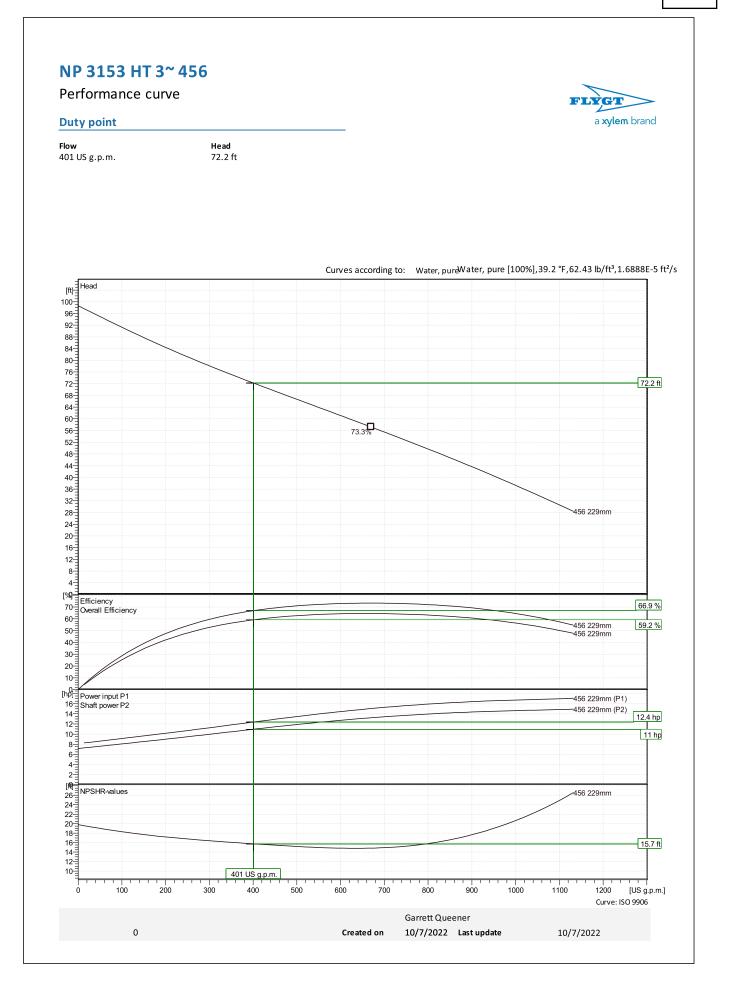
Motor number	Phases	Rated speed	Rated power
N3153.660 21-15-4AA-W 15hp	3~	1755 rpm	15 hp
ATEX approved	Number of poles	Rated current	Stator variant
No	4	39 A	5
Frequency	Rated voltage	Insulation class	Type of Duty
60 Hz	230 V	н	S1
Version code			
660			
Motor - Technical			
Power factor - 1/1 Load	Motor efficiency - 1/1 Load	Total moment of inertia	Starts per hour max.
0.82	87.8 %	1.76 lb ft²	30
Power factor - 3/4 Load	Motor efficiency - 3/4 Load	Starting current, direct starting	
0.77	88.7 %	228 A	
Power factor - 1/2 Load	Motor efficiency - 1/2 Load	Starting current, star-delta	

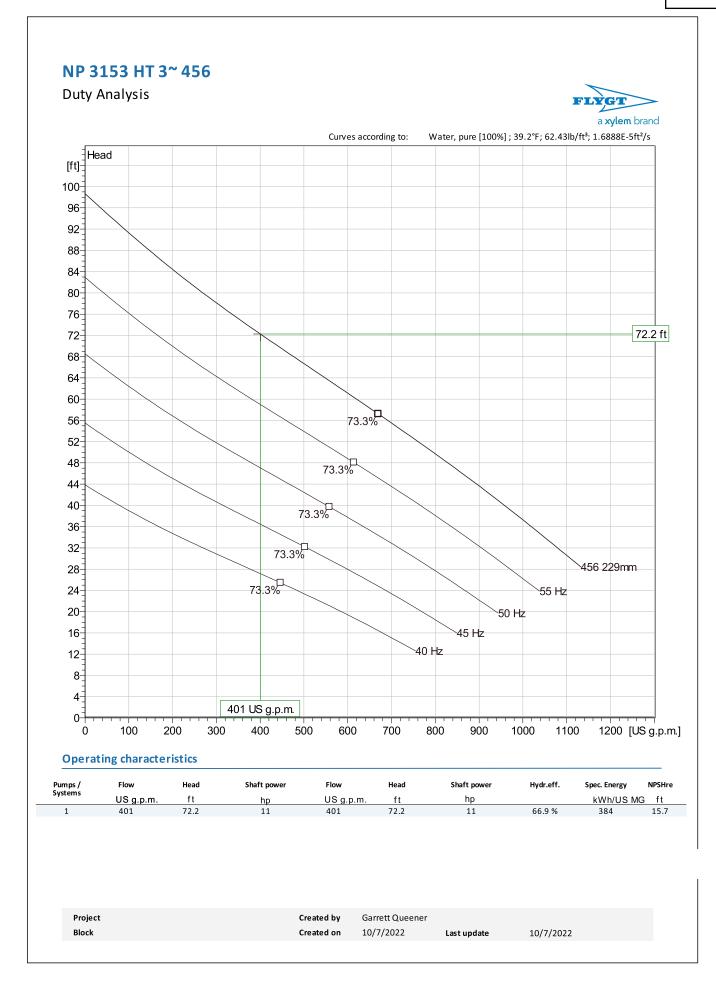
 Project
 Created by
 Garrett Queener

 Block
 0
 Created on
 10/7/2022
 Last update
 10/7/2022

FLYGT

a **xylem** brand





User group(s)

Xylem: USA - EXT

Data version

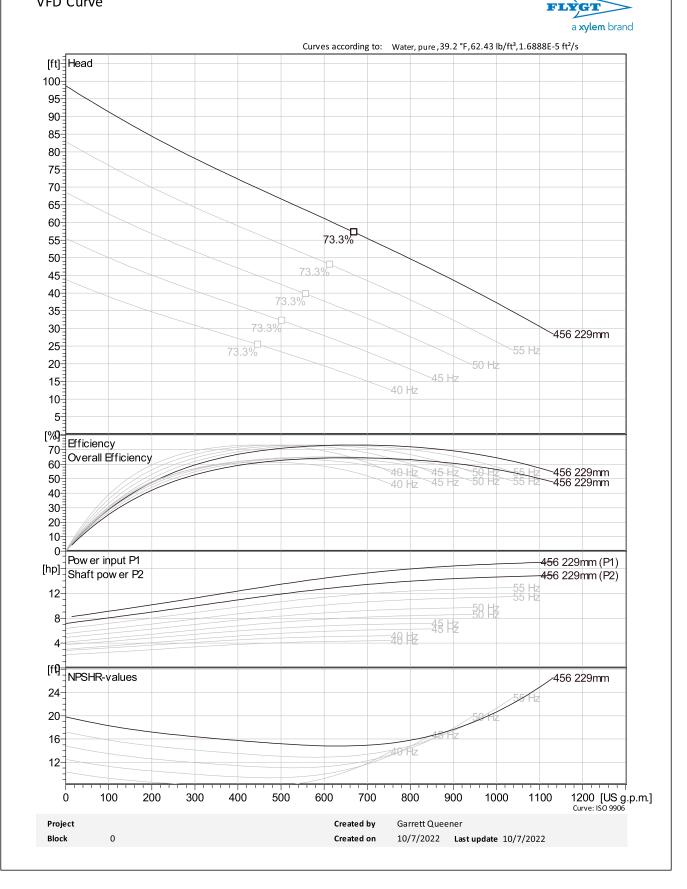
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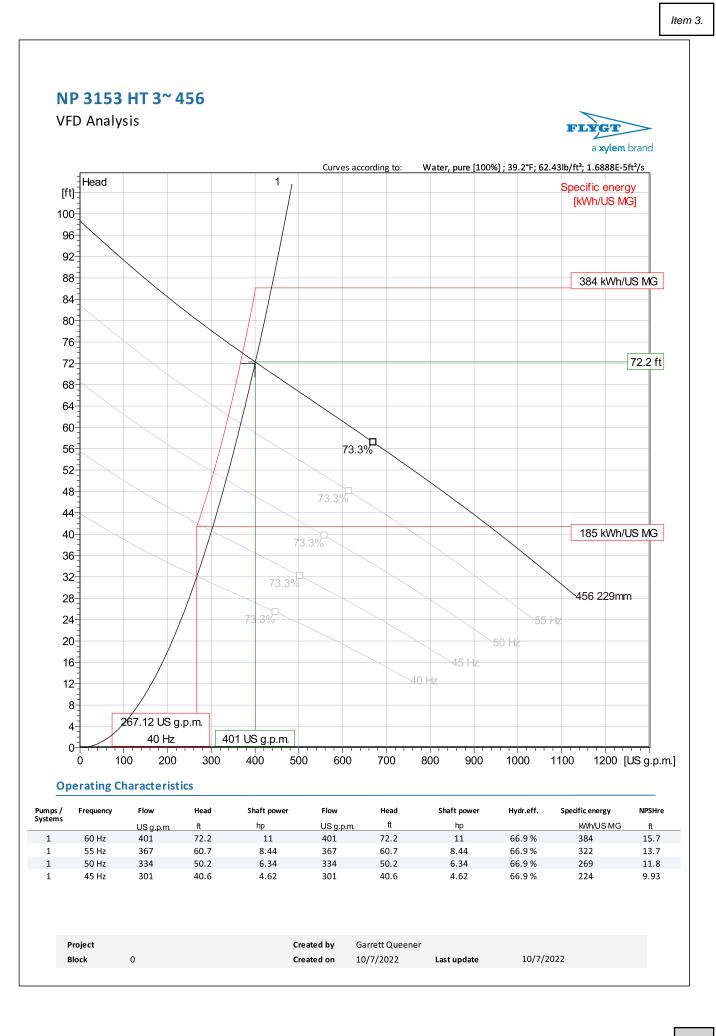
Program version

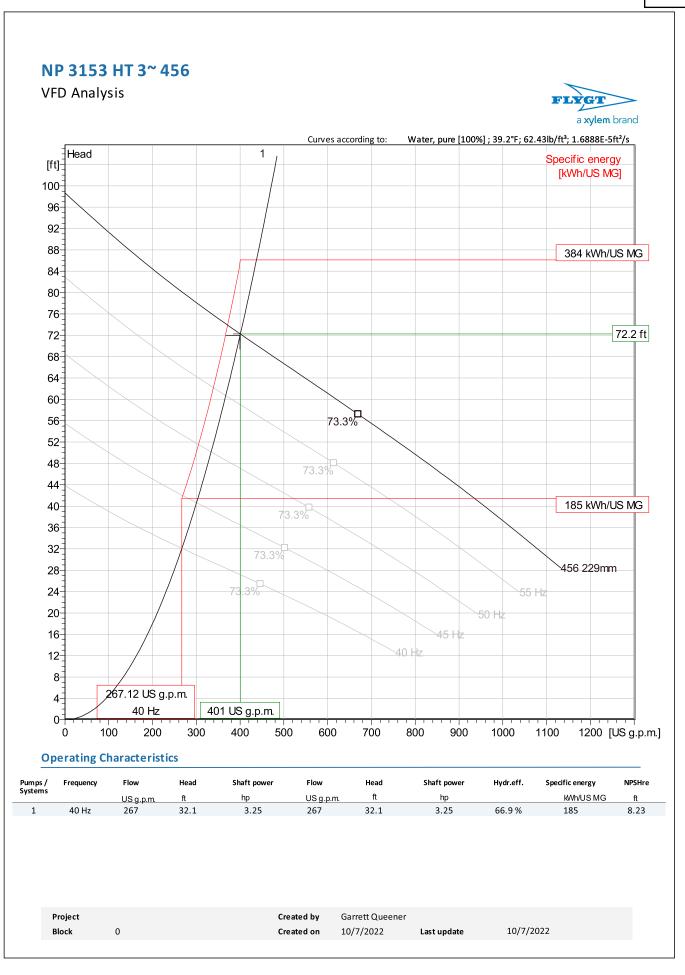
65.0 - 9/27/2022 (Build 180)

NP 3153 HT 3~ 456

VFD Curve



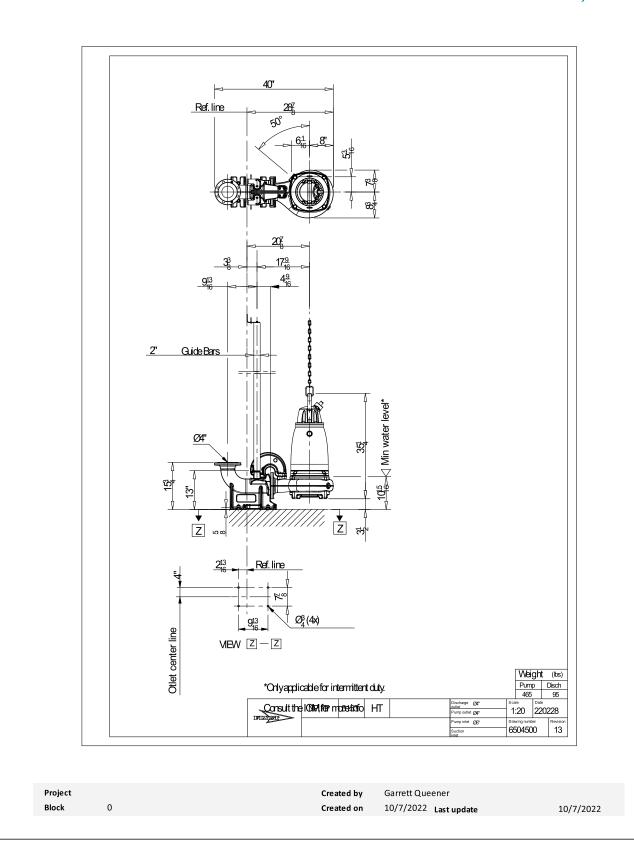




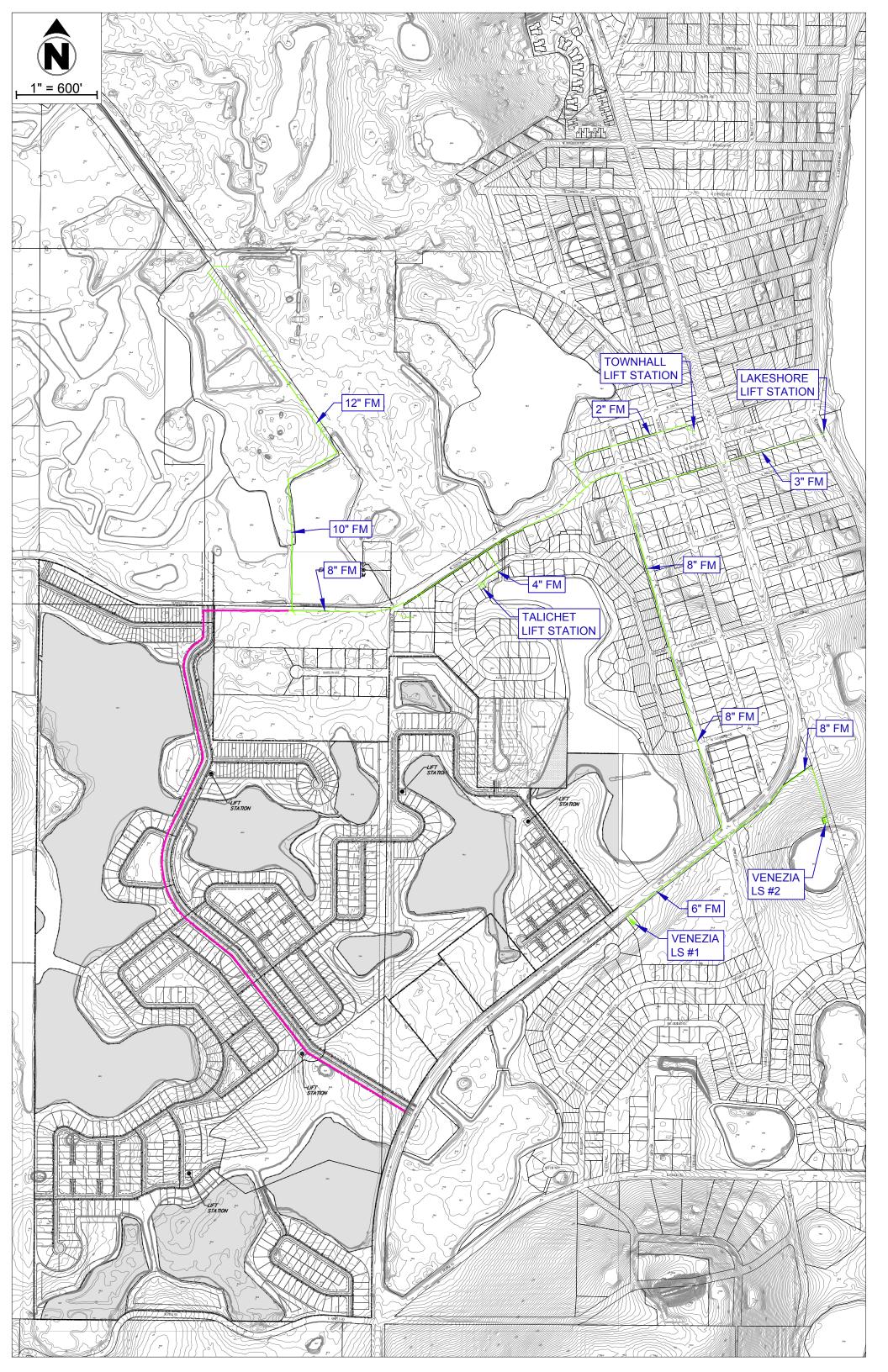
NP 3153 HT 3~ 456

Dimensional drawing





User group(s) Xylem: USA - EXT



WASTEWATER MASTER PLAN

Town of Howey in the Hills

Public Wastewater System

Prepared For:



Prepared By:



October 2018

APPENDIX C

Venezia's Existing Lift Station Calculations

LIFT STATION CALCULATIONS

Venezia Lift Station #1

l. Desi	gn Flow Rates:								
Pan LD	cel Land Use	Unit Description	Units	Unit Flow (GPD/Unit)	Average Daily Flow _(GPD)_	Average Daily Flow _ <u>(GPM)</u> _	Minimum Da i ly Flow <u>(GPM)</u>	Maximum Daily Flow _(GPM)_	Peak Daily Flow <u>(GPM)</u>
1	Residential - SF (detached)	dwelling unit	94	300	28,200	20	10	39	78
2		square feet	70,000	0.1	7,000	5	2	10	19
3		square feet	500	0.4	200	0.1	0.1	0.3	0.6
4	Commercial - Shopping Center - Bakery	square feet	500	0.4	200	0.1	0.1	0.3	0.6
5	Commercial - Shopping Center - Meat	square feet	500	0.75	375	0.3	0.1	0.5	1.0
6	Commercial - Restaurant <16 hrs	seat	300	40	12,000	8	4	17	33
7		5541	000	-10	0	õ	ō	0	õ
8					ő	ŏ	ŏ	0	õ
9					0 0	ŏ	õ	õ	õ
10					õ	Ď	õ	õ	ŏ
							_		
				Total	47,975	33	17	67	133
							F_min	F _{max}	F _{peak}
·				. =:=	Design Pea	king Factors:	0.5	2.0	4.0
II. Wet V	Vell Dimensions:			III. Minimum	Cycle Time & St	orage Volume	:		
	Wet Well Configuration:	Duplex		T = (V / (C	2-S)) + (V/S)	- 100 -	Where:	T = Cycle Tir	
	No. of Wet Wells:	1			n occurs when S	= 1/2Q (Duple)	x)	S ≍ Peak Inf	
1	Layout:	Circular		V = (QT / -	4)				ischarge (gpm)
1	Inner Diameter =	8.00	feet					V = Req. Sto	rage Vol. (gal.)
	Volume =	376	gailons/foot	F	or Minimum T =	10	Min.		
	Total Volume =	376	gallons/foot		S =	147	GPM		
	Wall Thickness =	8	inches		Q =	294	GPM (per pum	p)	
J	Outer Diameter =	9.33	feet		Then V =	735	Gallons		
1				Min. St	torage Depth =	1.95	Feet (Pump OI	N - Pump OFF)
	Slab Lip =	18	inches	Cycle Tin	ne for Peak Flow	Condition, T =	10	Minutes > 5 n	ninutes, OK
1	Siab Diameter =	12.33	feet						
Ì					additional 50% S		for Triplx and 10	00% for Quadp	lex
	Slab Thickness =	12	inches	Note: Rule of 3	Thumb: Min, Q =	150 gpm			
IV. Wet V	/eii Control Leveis:				V. Buoyancy C	alculation:		<u> </u>	
1								. .	
1		Top Elevation				ture Rim El. =	89.00	feet	
	Assume Ground Water Tab	le @ Elevation	88,50			ure Base El. =	63.50	feet	
					Stru	icture Depth =	25.50	feet	
1	Influent Gravity Sew								
		Freeboard =		Feet		ture Volume =	1,282	CF	
	Audible Alarm	ON Elevation				Vall Volume =	463	CF	
1	T 1.1	Freeboard =		Feet	5	Slab Volume =	119	CF	
1	4 ⁷⁷ Pump & Alarm-								
1		Freeboard =		Feet	Volume d	of Concrete =	582	CF	
	3 RD -Pump & Alarm I	Light ON Elev.	0.00		Density	of Concrete =	144	lbs/CF	
		Freeboard-	0.00	Feet		of Concrete =	83,855	los.	1
	2 ND Pump & Alarm I	Light ON Elev.	70.00						
1	•	Freebaord =		Feet	Volume of Soil /	Above Slab =	1,302	CF	
	Lead P	ump ON Elev.	69.00			nsity of Soil =	47	lbs/CF	
		orage Depth =	4.00	Feet	Weight of Soil /		61,184	lbs.	
1		nps OFF Elev.	65.00						
		ump Depth =	1.50	Feet		Total Resis	tance Force =	145,040	lbs.
	Wet Well Bott		63.50					-	
					Grout	nd Water Tabl	e @ Elevation	88.50	feet
1		of Wet Well =	25.50	Feet					
	Station Yard Finish Grad		88.50			Volume of Wa	ter Displaced =	1,830	CF
	Minimum Station	Yard Width =	25.0	Feet		Den	sity of Water =	62.4	lbs/CF
	Min. Station Easement Len	gth & Width =	59.3	Feet					
1	·		105	<u>,</u>		Total	Uplift Force =	114,185	lbs.
	Forcemain High Poir			ft					
	Connection Pol			ft		_			
		on Pressure =	0.00	psi		Fact	or of Safety =	1.3	
ſ	Static Head f	or Pumps =	60.00	Feet	!				
				I					

LIFT STATION CALCULATIONS (Cont'd) Venezia Lift Station #1

Calculation of System Head Curve: VI,

				-										
VI.	Calculation of System Head	Curve:											Pump Selection Flygt 15 Model: NP3151, Curve: 63-464-00	hp ASSO
	Total Otalia Useday	00.00	To at										Model: NP3151. Curve: 63-464-00 Impeller: 253 mm)-4000
	Total Static Head =	60,00	Feet										No. Pumps in Parallel = 1 Duplex	
													Operating Point = 294 gpm @ 87	ft TDH
			l Sta	tion	1			Force Ma	in Pioloc	,		1	OP 2 Pumps = gpm @	ft TDH
				ping	New	On-Site	New I	On-Site		off-Site	I N	ZA	OP 3 pumps = gpm @	ft TDH
	Pipe Length (feet)			27		47		600		140		0		
	Pipe Inside Dia. (ii			6		6		8		10	1	2	Wet Well Area = 50.3 sf per wet well	
	Pipe Area (SqFt,		i o.	196	l 0.	196	O.	349	0.	545	0.	785	Pump On El. = 69.00 ft	
	Pipe Material	<i>,</i>		NP	P	VC	P	VC	P	vc	P	VC	Pump Off El. = 65.00 ft	
	Roughness C		1	00	1	20	1	20	1	20	1:	20	Storage Volume = 201 cf	
	Fittings:	K-Value	No.	Tot K	No.	Tot K	No.	Tot.K	No.	Tot K	No.	Tot K	1,504 galions per wel wel]
	Discharge	1.0	1	1.0	0	0,0	٥	0.0	1	1.0	C	0.0		
	90° Bend	0,6	2	1.2	0	0.0	Ó	0.0	2	1.2	0	0.0	Pump On Time = Storage Volume / (Outflow -	nflow)
	45° Bend	0.4	2	0.8	4	1.6	4	1.6	4	1.6	Ċ	0,0	≔ 9,4 minutes (Peak)	
	22.5° Bend	0.25	D	0.0	4	1.0	4	1.0	4	1.0	0	0.0	= 5,8 minutes (Average)	i i
	11.25° Bend	0.15	0	0.0	0	0	0	0.0	D	0.0	0	0.0	Pump Off Time = Storage Volume / (Inflow)	
	Expansion	0.5	Đ	0.0	1	0.5	1	0.5	0	0.0	0	0.0	= 11,3 minutes (Peak)	
	Plug Valve	0.4	1	0.4	1	0.4	6	2.4	3	1.2	0	0.0	= 45.1 minutes (Average)	1
	Check Valve	2.5	1	2.5	0	0.0	D	0.0	0	0.0	0	0.0		
	Wye Branch	0.5	1	0.5	0	0,0	D	0.0	0	0.0	0	0.0	Inflow = 33 gpm (Average)	
	Contraction	0.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	inflow = 133 gpm (Peak)	
	Total K-Value			6,4		3.5		5.5		6.0		0.0	Outflow = 294 gpm	
						-						10	12	
÷.,	p Interval = 25	a nm	Add Ma	nifo)d Flov	ue (anal)	- <u>6</u> 0		-	<u>a</u>			0		
316	ip interval - 20	gpm	Aud. Ivia	ninota Lina	va (ghiu):	J						9	5	

-		<u> </u>		-		Pipe & F	Fitting Fric	tion Losses in Feet - Velocity In Feet per Second										
			6	1		6	- 1		8			10			12		Friction	TDH
	Q (gpm)	Pipe		Velocity	Pipe		Velocity	Pipe		Velocity	Pipe	Fittings	Velocity	Pipe	Fittings	Velocity	Head	1013
		(ft)	(ft)	(fps)	(ft)	(ft)	(fps)	<u>(ft)</u>	(ft)	(fps)	<u>(ft)</u>	(ft)	(fps)	(ft)	(ft)	(fps)	(feet)	(feet)
	0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0,00	0.0	0.00	0.00	0.0	0.00	60.00 60.27
	25	0.00	0.01	0.3	0.09	0.00	0.3	0.13	0.00	0,2	0.02	0,00	0.1	0.00	0.00	0.0 0.0	0.27	60.96
	50	0.02	0.03	0,6	0,33	0.02	0.6	0.47	0.01	0.3	0.09	0.00	0.2	0.00	0.00	0.0	2.05	62.05
	75	0.04	0.07	0.9	0.69	0.04	0.9	0,99	0.02	0.5	0.19	0.01	0.3		0.00	0.0	3.50	63.50
	100	0.07	0.13	1.1	1.17	0.07	1.1	1.69	0.03	0.6 0.8	0.32 0.49	0.02	0,4 0.5	0,00 0,00	0.00	0.0	5.31	65.31
	125	0.10	0.20	1.4	1.78	0.11	1.4	2.55			0.68	0.02	0.6	0.00	0.00	0.0	7.45	67.45
	150	0.14 0.19	0.29 0.39	1.7 2.0	2.49 3.31	0.16	1.7 2.0	3.58 4.76	0.08	1.0 1.1	0.91	0.05	0.0	0.00	0.00	0.0	9.93	69.93
0	175	0.19	0.59	2.0	4.24	0.21	2.0	6.10	0.14	1.3	1.16	0.05	0.7	0.00	0.00	0.0	12.74	72.74
Curve	200 225	0.25	0.65	2.5	5,28	0.35	2.5	7.58	0.14	1.4	1.44	0.08	0.9	0.00	0.00	0.0	15.87	75.87
5	250	0.38	0.80	2.0	6.42	0.44	2.8	9.21	0.10	1.6	1.75	0.10	1.0	0,00	0.00	0.0	19.31	79.31
U U	275	0.45	0.97	3.1	7.65	0.53	3.1	10.99	0.26	1.8	2.09	0.12	1.1	0.00	0.00	0.0	23.07	83.07
	294	0.51	1.11	3.3	8.66	0.60	3.3	12.44	0.30	1.9	2.37	0,13	1.2	0.00	0.00	0.0	26.13	86.13
Head	300	0.53	1.15	3,4	8.99	0.63	3.4	12.91	0.31	1.9	2.46	0.14	1.2	0.00	0.00	0.0	27.13	87.13
우	325	0.62	1.35	3,7	10.43	0.74	3.7	14.97	0.37	2.1	2.85	0.16	1.3	0.00	0.00	0.0	31.50	91.50
	350	0.71	1.57	4.0	11.97	0.86	4,0	17.18	0.43	2.2	3.27	0.19	1.4	0.00	0.00	0.0	36.17	96.17
System	375	0.81	1.80	4.3	13.60	0.98	4.3	19.51	0.49	2,4	3.71	0.22	1.5	0.00	0.00	0.0	41.13	101.13
ē	400	0.92	2,05	4,5	15,33	1.12	4.5	21.99	0.56	2,6	4.19	0.25	1.6	0.00	0,00	0.D	46.39	106.39
<u>s</u>	425	1.03	2.31	4.8	17.15	1.26	4.8	24.60	0,63	2.7	4.68	0.28	1.7	0.00	0.00	0,0	51.95	111.95
ેં	450	1,15	2.59	5.1	19.06	1.42	5.1	27.35	D.70	2.9	5.21	0.31	1.8	0.00	0.00	0.0	57.79	117.79
•	475	1.27	2.89	5.4	21.07	1.58	5.4	30.22	0.78	3.0	5.75	0.35	1.9	0.00	0.00	0.0	63.93	123.93
	500	1.41	3.20	5.7	23,18	1.75	5.7	33.23	0.87	3.2	6.33	0,39	2.0	0.00	0.00	0.0	70.35	130.35
	525	1.54	3.53	6.0	25.37	1.93	6.0	36.37	0,96	3.4	6.93	0.43	2.1	0.00	0.00	0.0	77.05	137.05
	550	1,69	3.87	6.2	27.65	2.12	6,2	39,65	1.05	3.5	7.55	0.47	2.2	0.00	0.00	0,0	84.04	144.04
	575	1.83	4.23	6.5	30.03	2.31	6.5	43.04	1.15	3.7	8.20	0.51	2.3	0.00	0.00	0.0	91.31	151.31
	600	1.99	4,61	6.8	32,49	2.52	6.8	46.57	1.25	3.8	8.87	0.56	2.5	0.00	0.00	0.0	98,86	158.86
	625	2.15	5.00	7.1	35.05	2.73	7.1	50.23	1.36	4.0	9.56	0.61	2.6	0.00	0,00	0.0	106.68	166.68
	650	2,32	5.41	7.4	37.69	2.96	7.4	54.01	1.47	4.1	10.28	0.66	2.7	0.00	0.00	0.0	114.79	174.79
1	675	2.49	5,83	7.7	40.42	3.19	7.7	57.92	1.59	4.3	11.03	0.71	2.8	0.00	0.00	0.0	123.16 131.81	183.16 191.81
	700	2.67	6.27	7.9	43.24	3.43	7.9	61.95	1.70	4.5	11,80	0.76	2.9	0.00	0.00	0.0	131.81	200.74
	725	2.85	6.72	8.2	46.14	3.68	8.2	66.10 70.20	1.83	4.6 4.8	12.59 13.40	0.82 0.87	3.0 3.1	0.00 0.00	0.00 0.00	0.0 0.0	140.74	200.74 209,93
	750	3.04	7.20	8.5	49.13	3.94	8.5	70.39	1.96	4.0	13.40	0.07	3.1	0.00	0.00	0,0	140.00	203,00

Item 3.

LIFT STATION CALCULATIONS

Venezia Lift Station #2

I.	Design Flow	Rates:				Average	Average	Minimum	Maximum	Peak
	Parcei ID	Land Use Description	Unit <u>Description</u>	Units	Unit Flow (GPD/Unit)	Daily Flow (GPD)	Daily Flow	Daily Flow (GPM)	Daily Flow (GPM).	Daily Flo
	1	Residential - SF (detached)	dwelling unit	77	300	23,100	16	8	32	64
	2	Residential - SF (attached)	dwelling unit		300	33,900	24	12	47	94
	3	Institutional - School	student	494	33	16,302	11	6	23	45
	4 5					0	0	D	0	0
	6					0 0	0 0	0 0	0 0	0
	7					õ	ő	0	0	0
	8					Ō	õ	ŏ	ŏ	Ď
	9					0	D	0	0	0
	10					0	0	0	0	0
					Total	73,302	51	25	102	204
								F _{min}	Fmax	Fpeek
						<u>Design Pe</u>	aking Factors	0.5	2.0	4.0
I. '	Wet Well Dim	nensions:			III. Minimum	Cycle Time & Si	torage Volum);		
		Wet Well Configuration:	Duplex		T = (V / (C	2-S)) + (V/S)		Where	: T = Cycle Tin	
		No. of Wet Wells:	1		Note: T m	_{in} occurs when S	= 1/2Q (Duple	x)	S = Peak Infl	ow (gpm)
		Layout: Inner Diameter =	Circular 8.00	feet	V = (QT /	4)			Q = Pump Di V = Req. Sto	
		Volume = Total Volume ⇒	376 376	gallons/foot gallons/foot	F	or Minimum T = S =	10 163	Min. GPM		
		Wall Thickness = Outer Diameter =	8 9.33	inches feet		Q =	326	GPM (per pur	ıp)	
			0.00	IEEL	Min. S	Then V =	815 2.17	Gallons Feet (Pump Q	N - Pumn OFF)	
		Slab Lip =	18	inches		torage Depth =	2.17		N - Pump OFF) Minutes > 5 m	
			18 12.33		Cycle Tir		2.17 Condition, T =	Feet (Pump O	Minutes > 5 m	inutes, OK
		Slab Lip =	18	inches	Cycle Tir Note: Allow an	torage Depth = ne for Peak Flow	2.17 Condition, T = Storage Depth	Feet (Pump O	Minutes > 5 m	inutes, OK
7. 1	Wet Well Con	Slab Lip = Slab Diameter = Slab Thickness =	18 12.33	inches feet	Cycle Tir Note: Allow an	torage Depth = ne for Peak Flow additional 50% 3	2.17 Condition, T = Storage Depth 150 gpm	Feet (Pump O	Minutes > 5 m	inutes, OK
7. 1	Wet Well Con	Slab Lip = Siab Diameter = Slab Thickness = trol Levels:	18 12.33 12 Fop Elevation	inches feet inches 82.00	Cycle Tir Note: Allow an	torage Depth = ne for Peak Flow a additional 50% 3 Thumb: Min. Q = V. Buoyancy C Struct Struct	2.17 Condition, T = Storage Depth 150 gpm calculation: cure Rim El. = cure Base El. =	Feet (Pump O 10 for Triplx and 10 82.00 54.50	Minutes > 5 π 00% for Quadp feet feet	inutes, OK
7. \	Wet Well Con	Slab Lip = Siab Diameter = Siab Thickness = trol Leveis: Wet Well 1	18 12.33 12 Fop Elevation le @ Elevation	inches feet inches 82.00 81.50	Cycle Tir Note: Allow an	torage Depth = ne for Peak Flow a additional 50% 3 Thumb: Min. Q = V. Buoyancy C Struct Struct	2.17 Condition, T = Storage Depth 150 gpm alculation:	Feet (Pump O 10 for Triplx and 10 82.00	Minutes > 5 π 00% for Quadp feet	inutes, OK
	Wet Well Con	Slab Lip = Slab Diameter = Slab Thickness = trol Leveis: Wet Well 1 Assume Ground Water Tabl	18 12.33 12 Fop Elevation le @ Elevation	inches feet inches 82.00 81.50 61.72	Cycle Tir Note: Allow an	torage Depth = ne for Peak Flow a additional 50% 3 Thumb: Min. Q = V. Buoyancy C Struct Struct	2.17 Condition, T = Storage Depth 150 gpm calculation: cure Rim El. = cure Base El. =	Feet (Pump O 10 for Triplx and 10 82.00 54.50	Minutes > 5 π 00% for Quadp feet feet	inutes, OK
. \	Wet Well Con	Slab Lip = Slab Diameter = Slab Thickness = trol Leveis: Wet Well 1 Assume Ground Water Tabl	18 12.33 12 Fop Elevation e @ Elevation rer Invert Elev. Freeboard = ON Elevation	inches feet inches 82.00 81.50 61.72 0.72 61.00	Cycle Tir Note: Allow ar Note: Rule of	torage Depth = ne for Peak Flow a additional 50% S Thumb: Min. Q = V. Buoyancy C Struct Struct Struct	2.17 Condition, T = Storage Depth 150 gpm alculation: cure Rim El. = cure Base El. = ucture Depth = ture Volume = Wall Volume =	Feet (Pump O 10 for Triplx and 10 82.00 54.50 27.50 1,382 499	Minutes > 5 m 00% for Quadp feet feet feet CF CF	inutes, OK
	Wet Well Con	Slab Lip = Slab Diameter = Slab Thickness = ntrol Levels: Wet Well 1 Assume Ground Water Tabl Influent Gravity Sew Audible Alarm	18 12.33 12 Top Elevation le @ Elevation Freeboard = ON Elevation Freeboard =	Inches feet Inches 82.00 81.50 61.72 0.72 61.00 1.00	Cycle Tir Note: Allow ar Note: Rule of	torage Depth = ne for Peak Flow a additional 50% S Thumb: Min. Q = V. Buoyancy C Struct Struct Struct	2.17 Condition, T = Storage Depth 150 gpm calculation: cure Rim El. = cure Base El. = ucture Depth =	Feet (Pump O 10 for Triplx and 10 82.00 54.50 27.50 1,382	Minutes > 5 m 00% for Quadp feet feet feet CF	inutes, OK
. N	Wet Well Con	Slab Lip = Slab Diameter = Slab Thickness = trol Levels: Wet Well 1 Assume Ground Water Tabl Influent Gravity Sew	18 12.33 12 Top Elevation le @ Elevation er Invert Elev, Freeboard = ON Elevation Freeboard =	Inches feet Inches 82.00 81.50 61.72 0.72 61.00 1.00 0.00	Cycle Tir Note: Allow ar Note: Rule of Feet Feet	torage Depth = ne for Peak Flow a additional 50% 3 Thumb: Min. Q = V. Buoyancy C Struct Struct Struct	2.17 Condition, T = Storage Depth 150 gpm Calculation: Cure Rim El. = Cure Base El. = Lucture Depth = Sture Volume = Wall Volume =	Feet (Pump O 10 for Triplx and 10 82.00 54.50 27.50 1,382 499 119	Minutes > 5 m 00% for Quadp feet feet feet CF CF CF	inutes, OK
7. 1	Wet Well Con	Slab Lip = Slab Diameter = Slab Thickness = Itrol Leveis: Wet Well 1 Assume Ground Water Tabl Influent Gravity Sew Audible Alarm 4 ⁷⁴ -Pump-&-Alarm-	18 12.33 12 Top Elevation e @ Elevation er Invert Elev. Freeboard = ON Elevation Freeboard = Light ON Elev.	Inches feet Inches 82.00 81.50 61.72 0.72 61.00 1.00 0.00 0.00	Cycle Tir Note: Allow ar Note: Rule of	torage Depth = ne for Peak Flow a additional 50% 3 Thumb: Min. Q = V. Buoyancy C Struct Struct Struct Struct Struct	2.17 Condition, T = Storage Depth 150 gpm Calculation: Cure Rim El. = Cure Base El. = Lucture Depth = Sture Volume = Wall Volume = Slab Volume = of Concrete =	Feet (Pump O 10 for Triplx and 10 82.00 54.50 27.50 1,382 499 119 619	Minutes > 5 m 00% for Quadp feet feet feet CF CF CF	inutes, OK
	Wet Well Con	Slab Lip = Slab Diameter = Slab Thickness = htrol Levels: Wet Well 1 Assume Ground Water Tabl Influent Gravity Sew Audible Alarm	18 12.33 12 Fop Elevation e @ Elevation er Invert Elev. Freeboard = ON Elevation Freeboard = Light ON Elev.	Inches feet Inches 82.00 81.50 61.72 0.72 61.00 1.00 0.00 0.00 0.00 0.00	Cycle Tir Note: Allow ar Note: Rule of Feet Feet Feet	torage Depth = ne for Peak Flow a additional 50% 3 Thumb: Min. Q = V. Buoyancy C Struct Struc	2.17 Condition, T = Storage Depth 150 gpm Calculation: Cure Rim El. = Cure Base El. = Lucre Depth = Uture Volume = Wall Volume = Slab Volume = of Concrete = of Concrete =	Feet (Pump O 10 for Triplx and 10 54.50 27.50 1,382 499 119 619 144	Minutes > 5 m 00% for Quadp feet feet feet CF CF CF CF Lbs/CF	inutes, OK
7. \	Wet Well Con	Slab Lip = Slab Diameter = Slab Thickness = Introl Leveis: Assume Ground Water Tabl Influent Gravity Sew Audible Alarm 4 TH -Pump & Alarm I 3 RD -Pump & Alarm I	18 12.33 12 Fop Elevation e @ Elevation er Invert Elev. Freeboard = UN Elevation Freeboard = Light ON Elev. Freeboard =	Inches feet Inches 82.00 81.50 61.72 61.00 1.00 0.00 0.00 0.00 0.00	Cycle Tir Note: Allow ar Note: Rule of Feet Feet	torage Depth = ne for Peak Flow a additional 50% 3 Thumb: Min. Q = V. Buoyancy C Struct Struc	2.17 Condition, T = Storage Depth 150 gpm Calculation: Cure Rim El. = Cure Base El. = Lucture Depth = Sture Volume = Wall Volume = Slab Volume = of Concrete =	Feet (Pump O 10 for Triplx and 10 82.00 54.50 27.50 1,382 499 119 619	Minutes > 5 m 00% for Quadp feet feet feet CF CF CF	inutes, OK
7. 1	Wet Well Con	Slab Lip = Slab Diameter = Slab Thickness = Itrol Leveis: Wet Well 1 Assume Ground Water Tabl Influent Gravity Sew Audible Alarm 4 ⁷⁴ -Pump-&-Alarm-	18 12.33 12 Fop Elevation e @ Elevation er Invert Elev. Freeboard = ON Elevation Freeboard = Light ON Elev. Freeboard = Light ON Elev.	Inches feet Inches 82.00 81.50 61.72 61.00 1.00 0.00 0.00 0.00 0.00 0.00 0.0	Cycle Tir Note: Allow ar Note: Rule of Feet Feet Feet	torage Depth = ne for Peak Flow additional 50% S Thumb: Min. Q = V. Buoyancy C Struct	2.17 Condition, T = Storage Depth 150 gpm alculation: cure Rim El. = ure Base El. = ure Base El. = ure Volume = Wall Volume = Slab Volume = of Concrete = of Concrete = of Concrete =	Feet (Pump O 10 for Triplx and 10 82.00 54.50 27.50 1,382 499 119 619 144 89,083	Minutes > 5 m 00% for Quadp feet feet feet CF CF CF CF tbs/CF lbs.	inutes, OK
7. \	Wet Well Con	Slab Lip = Slab Diameter = Slab Thickness = ntrol Levels: Assume Ground Water Tabl Influent Gravity Sew Audible Alarm 4 TH _Pump & Alarm I 3 RD _Pump & Alarm I	18 12.33 12 Fop Elevation e @ Elevation e @ Elevation Freeboard = ON Elevation Freeboard = light ON Elev. Freeboard = light ON Elev. Freeboard =	Inches feet Inches 82.00 81.50 61.72 61.00 1.00 0.00 0.00 0.00 0.00 60.00 1.00	Cycle Tir Note: Allow ar Note: Rule of Feet Feet Feet	torage Depth = ne for Peak Flow a additional 50% S Thumb: Min. Q = V. Buoyancy C Struct Struct Struct Struct Struct Volume Density Weight Volume of Soli	2.17 Condition, T = Storage Depth 150 gpm alculation: cure Rim El. = cure Base El. = ucture Depth = ture Volume = Wall Volume = Slab Volume = of Concrete = of Concrete = of Concrete = Above Slab =	Feet (Pump O 10 for Triplx and 10 82.00 54.50 27.50 1,382 499 119 619 144 89,083 1,404	Minutes > 5 m 00% for Quadp feet feet feet CF CF CF CF Ubs/CF Ibs, CF	inutes, OK
. N	Wet Well Con	Slab Lip = Slab Diameter = Slab Thickness = ntrol Levels: Wet Well 1 Assume Ground Water Tabl Influent Gravity Sew Audible Alarm 4 TH -Pump & Alarm I 3 RD Pump & Alarm I 2 ND Pump & Alarm I	18 12.33 12 Fop Elevation e @ Elevation e @ Elevation Freeboard = ON Elevation Freeboard = Light ON Elev. Freeboard = Light ON Elev. Freeboard = Light ON Elev. Freeboard =	Inches feet Inches 82.00 81.50 61.72 61.00 1.00 0.00 0.00 0.00 0.00 0.00 0.0	Cycle Tir Note: Allow ar Note: Rule of Feet Feet Feet Feet	torage Depth = ne for Peak Flow a additional 50% 3 Thumb: Min. Q = V. Buoyancy C Struct Struc	2.17 Condition, T = Storage Depth 150 gpm calculation: cure Rim El. = cure Base El. = ucture Depth = ture Volume = Wall Volume = Slab Volume = of Concrete = of Concrete = of Concrete = Above Slab = ensity of Soll =	Feet (Pump O 10 for Triplx and 10 54.50 27.50 1,382 499 119 619 144 89,083 1,404 47	Minutes > 5 m 00% for Quadp feet feet feet CF CF CF CF Ubs/CF lbs, CF lbs/CF	inutes, OK
. \	Wet Well Con	Slab Lip = Slab Diameter = Slab Thickness = ntrol Levels: Assume Ground Water Tabl Influent Gravity Sew Audible Alarm 4 TH Pump & Alarm 1 3 RD Pump & Alarm 1 2 ND Pump & Alarm 1 Lead P	18 12.33 12 Top Elevation le @ Elevation Freeboard = ON Elevation Freeboard = Light ON Elev. Freeboard = Light ON Elev. Freeboard = ump ON Elev. prage Depth =	Inches feet Inches 82.00 81.50 61.72 61.00 1.00 0.00 0.00 0.00 0.00 0.00 0.0	Cycle Tir Note: Allow ar Note: Rule of Feet Feet Feet	torage Depth = ne for Peak Flow a additional 50% S Thumb: Min. Q = V. Buoyancy C Struct Struct Struct Struct Struct Volume Density Weight Volume of Soli	2.17 Condition, T = Storage Depth 150 gpm calculation: cure Rim El. = cure Base El. = ucture Depth = ture Volume = Wall Volume = Slab Volume = of Concrete = of Concrete = of Concrete = Above Slab = ensity of Soll =	Feet (Pump O 10 for Triplx and 10 82.00 54.50 27.50 1,382 499 119 619 144 89,083 1,404	Minutes > 5 m 00% for Quadp feet feet feet CF CF CF CF Ubs/CF Ibs, CF	inutes, OK
	Wet Well Con	Slab Lip = Slab Diameter = Slab Thickness = Introl Levels: Assume Ground Water Tabl Influent Gravity Sew Audible Alarm 4 TH Pump & Alarm I 3 RD Pump & Alarm I 2 ND Pump & Alarm I Lead P Sto Both Pum	18 12.33 12 Fop Elevation e @ Elevation e @ Elevation Freeboard = ON Elevation Freeboard = Light ON Elev. Freeboard = Light ON Elev. Freeboard = Light ON Elev. Freeboard =	Inches feet Inches 82.00 81.50 61.72 61.00 1.00 0.00 0.00 0.00 0.00 0.00 0.0	Cycle Tir Note: Allow ar Note: Rule of Feet Feet Feet Feet	torage Depth = ne for Peak Flow a additional 50% 3 Thumb: Min. Q = V. Buoyancy C Struct Struc	2.17 Condition, T = Storage Depth 150 gpm Calculation: Cure Rim EL = Cure Base EL = Uncture Depth = Wall Volume = Wall Volume = Wall Volume = of Concrete = of Concrete = of Concrete = Above Slab = Above Slab =	Feet (Pump O 10 for Triplx and 10 54.50 27.50 1,382 499 119 619 144 89,083 1,404 47	Minutes > 5 m 00% for Quadp feet feet feet CF CF CF CF Ubs/CF lbs, CF lbs/CF	inutes, OK
	Wet Well Con	Slab Lip = Slab Diameter = Slab Thickness = Introl Levels: Assume Ground Water Tabl Influent Gravity Sew Audible Alarm 4 TH Pump & Alarm I 3 RD Pump & Alarm I 2 ND Pump & Alarm I Lead P Sto Both Pum	18 12.33 12 Fop Elevation e @ Elevation e @ Elevation Freeboard = ON Elevation Freeboard = Light ON Elev. Freeboard = Light ON Elev. Freeboard = ump ON Elev. orage Depth = ps OFF Elev. ump Depth =	Inches feet Inches 82.00 81.50 61.72 61.00 1.00 0.00 0.00 0.00 0.00 0.00 0.0	Cycle Tir Note: Allow ar Note: Rule of Feet Feet Feet Feet Feet Feet	torage Depth = ne for Peak Flow additional 50% S Thumb: Min. Q = V. Buoyancy C Struct	2.17 Condition, T = Storage Depth 150 gpm alculation: cure Rim El. = sure Base El. = ucture Depth = ture Volume = Wall Volume = Slab Volume = of Concrete = of Concrete = of Concrete = of Concrete = ansity of Soll = Above Slab = Total Resis	Feet (Pump O 10 for Triplx and 1 82.00 54.50 27.50 1,382 499 119 619 144 89,083 1,404 47 65,983 stance Force =	Minutes > 5 m 00% for Quadp feet feet feet CF CF CF CF Ubs/CF Ibs/CF Ibs/CF Ibs. CF Ibs/CF Ibs. CF	inutes, OK fex
7. 1	Wet Well Con	Slab Lip = Slab Diameter = Slab Thickness = ntrol Levels: Assume Ground Water Tabl Influent Gravity Sew Audible Alarm 4 TH -Pump & Alarm I 3 RD Pump & Alarm I 2 ND Pump & Alarm I Lead P Sto Both Pum S Wet Well Both	18 12.33 12 Fop Elevation e @ Elevation e @ Elevation Freeboard = ON Elevation Freeboard = Light ON Elev. Freeboard = Light ON Elev. Freeboard = Light ON Elev. Freeboard = ump ON Elev. proge Depth = ps OFF Elev. ump Depth = om Elevation	Inches feet Inches 82.00 81.50 61.72 61.00 1.00 6.00 0.00 0.00 0.00 0.00 0.0	Cycle Tir Note: Allow ar Note: Rule of Feet Feet Feet Feet Feet Feet	torage Depth = ne for Peak Flow additional 50% S Thumb: Min. Q = V. Buoyancy C Struct	2.17 Condition, T = Storage Depth 150 gpm alculation: cure Rim El. = sure Base El. = ucture Depth = ture Volume = Wall Volume = Slab Volume = of Concrete = of Concrete = of Concrete = of Concrete = ansity of Soll = Above Slab = Total Resis	Feet (Pump O 10 for Triplx and 10 54.50 27.50 1,382 499 119 619 144 89,083 1,404 47 65,983	Minutes > 5 m 00% for Quadp feet feet feet CF CF CF Ubs/CF lbs. CF lbs/CF lbs.	inutes, OK lex
7. 1	Wet Well Con	Slab Lip = Slab Diameter = Slab Thickness = ntrol Levels: Assume Ground Water Tabl Influent Gravity Sew Audible Alarm 4 TH -Pump & Alarm I 3 RD Pump & Alarm I 2 ND Pump & Alarm I Lead P Sto Both Pum S Wet Well Both	18 12.33 12 Fop Elevation e @ Elevation er Invert Elev. Freeboard = UN Elevation Freeboard = Light ON Elev. Freeboard = Depth = Depth = Depth = Depth = Depth = Depth = Dep	Inches feet Inches 82.00 81.50 61.72 61.00 1.00 0.00 0.00 0.00 0.00 0.00 0.0	Cycle Tir Note: Allow ar Note: Rule of Feet Feet Feet Feet Feet Feet	torage Depth = ne for Peak Flow a additional 50% 3 Thumb: Min. Q = V. Buoyancy C Struct Struc	2.17 Condition, T = Storage Depth 150 gpm Calculation: Cure Rim EL = Cure Base EL = Justure Depth = Wall Volume = Wall Volume = Wall Volume = Of Concrete = of Concrete = of Concrete = Above Slab = ensity of Soil = Above Slab = Total Resis	Feet (Pump O 10 for Triplx and 1 82.00 54.50 27.50 1,382 499 119 619 144 89,083 1,404 47 65,983 stance Force =	Minutes > 5 m 00% for Quadp feet feet feet CF CF CF CF Us/CF Ibs. CF Ibs/CF Ibs. 155,066 81.50	inutes, OK fex
<i></i>	Wet Well Con	Slab Lip = Slab Diameter = Slab Thickness = Introl Levels: Assume Ground Water Tabl Influent Gravity Sew Audible Alarm 4 TH -Pump & Alarm 1 3 RD -Pump & Alarm 1 2 ND Pump & Alarm 1 Lead P Stat Both Pum S Wet Well Botth Total Depth Station Yard Finish Grac Minimum Station	18 12.33 12 Fop Elevation e @ Elevation Freeboard = ON Elevation Freeboard = Light ON Elev. Freeboard = Light ON Elev. Freeboard = ump ON Elev. orage Depth = ops OFF Elev. ump Depth = om Elevation of Wet Well = the Elevation = Yard Width =	Inches feet Inches 82.00 81.50 61.72 0.72 61.00 1.00 0.00 0.00 0.00 0.00 0.00 0.0	Cycle Tir Note: Allow ar Note: Rule of Feet Feet Feet Feet Feet Feet	torage Depth = ne for Peak Flow a additional 50% 3 Thumb: Min. Q = V. Buoyancy C Struct Struc	2.17 Condition, T = Storage Depth 150 gpm calculation: cture Rim El. = cture Base El. = ucture Depth = wall Volume = Wall Volume = of Concrete = of Concrete = of Concrete = of Concrete = above Slab = motal Resis	Feet (Pump O 10 for Triplx and 10 82.00 54.50 27.50 1,382 499 119 619 144 89,083 1,404 47 65,983 stance Force = e @ Elevation	Minutes > 5 m 00% for Quadp feet feet feet CF CF CF CF Ubs/CF Ibs/CF Ibs/CF Ibs. CF Ibs/CF Ibs. CF	inutes, OK fex lbs. feet
	Wet Well Con	Slab Lip = Slab Diameter = Slab Thickness = Introl Levels: Assume Ground Water Tabl Influent Gravity Sew Audible Alarm 4 TH Pump & Alarm I 3 RD Pump & Alarm I 2 ND Pump & Alarm I Lead P Station Yard Finish Grad	18 12.33 12 Fop Elevation e @ Elevation Freeboard = ON Elevation Freeboard = Light ON Elev. Freeboard = Light ON Elev. Freeboard = ump ON Elev. orage Depth = ops OFF Elev. ump Depth = om Elevation of Wet Well = the Elevation = Yard Width =	Inches feet Inches 82.00 81.50 61.72 0.72 61.00 1.00 0.00 0.00 0.00 0.00 0.00 0.0	Cycle Tir Note: Allow ar Note: Rule of Feet Feet Feet Feet Feet Feet Feet	torage Depth = ne for Peak Flow a additional 50% 3 Thumb: Min. Q = V. Buoyancy C Struct Struc	2.17 Condition, T = Storage Depth 150 gpm alculation: cure Rim El. = sure Base El. = ucture Depth = ture Volume = Wall Volume = Slab Volume = of Concrete = of Concrete = of Concrete = of Concrete = Above Slab = motor Slab = Total Resist Notume of Wa	Feet (Pump O 10 for Triplx and 10 82.00 54.50 27.50 1,382 499 119 619 144 89,083 1,404 47 65,983 stance Force = e @ Elevation ter Displaced = sity of Water =	Minutes > 5 m 00% for Quadp feet feet feet CF CF CF CF Ibs/CF Ibs/CF Ibs. CF Ibs/CF Ibs. 155,066 81.50 1,967 62.4	inutes, OK fex lbs. feet CF lbs/CF
	Wet Well Con	Slab Lip = Slab Diameter = Slab Thickness = ntrol Levels: Met Well T Assume Ground Water Tabl Influent Gravity Sew Audible Alarm 4 TH -Pump & Alarm I 3 RD Pump & Alarm I 2 ND Pump & Alarm I Lead P Station Pump & Alarm I S Wet Well Bott Total Depth Station Yard Finish Grad Minimum Station Min. Station Easement Len	18 12.33 12 Fop Elevation e @ Elevation e @ Elevation Freeboard = Un Elevation Freeboard = Light ON Elev. Freeboard = Light ON Elev. Freeboard = Light ON Elev. Freeboard = Unp ON Elev. Drage Depth = Dom Elevation of Wet Well = de Elevation = Yard Width = gth & Width =	Inches feet Inches 82.00 81.50 61.72 0.72 61.00 1.00 0.00 0.00 0.00 0.00 0.00 0.0	Cycle Tir Note: Allow ar Note: Rule of Feet Feet Feet Feet Feet Feet Feet Fee	torage Depth = ne for Peak Flow a additional 50% 3 Thumb: Min. Q = V. Buoyancy C Struct Struc	2.17 Condition, T = Storage Depth 150 gpm alculation: cure Rim El. = sure Base El. = ucture Depth = ture Volume = Wall Volume = Slab Volume = of Concrete = of Concrete = of Concrete = of Concrete = Above Slab = motor Slab = Total Resist Notume of Wa	Feet (Pump O 10 for Triplx and 10 82.00 54.50 27.50 1,382 499 119 619 144 89,083 1,404 47 65,983 stance Force = e @ Elevation ter Displaced =	Minutes > 5 m 00% for Quadp feet feet feet CF CF CF Ibs/CF Ibs. CF Ibs/CF Ibs. 155,066 81.50 1,967	inutes, OK fex Ibs. feet CF
	Wet Well Con	Slab Lip = Slab Diameter = Slab Thickness = Introl Levels: Assume Ground Water Tabl Influent Gravity Sew Audible Alarm 4 TH -Pump & Alarm 1 3 RD -Pump & Alarm 1 2 ND Pump & Alarm 1 Lead P Stat Both Pum S Wet Well Botth Total Depth Station Yard Finish Grac Minimum Station	18 12.33 12 Top Elevation e @ Elevation er Invert Elev. Freeboard = ON Elevation Freeboard = Light ON Elev. Freeboard = Light ON Elev. Freeboard = Light ON Elev. Freeboard = Light ON Elev. Freeboard = DN Elev. Freeboard = Light ON Elev. Freeboard = Depth = D	Inches feet Inches 82.00 81.50 61.72 0.72 61.00 1.00 0.00 0.00 0.00 0.00 0.00 0.0	Cycle Tir Note: Allow ar Note: Rule of Feet Feet Feet Feet Feet Feet Feet Fee	torage Depth = ne for Peak Flow a additional 50% 3 Thumb: Min. Q = V. Buoyancy C Struct Struc	2.17 Condition, T = Storage Depth 150 gpm alculation: cure Rim El. = sure Base El. = ucture Depth = ture Volume = Wall Volume = Slab Volume = of Concrete = of Concrete = of Concrete = of Concrete = Above Slab = motor Slab = Total Resist Notume of Wa	Feet (Pump O 10 for Triplx and 10 82.00 54.50 27.50 1,382 499 119 619 144 89,083 1,404 47 65,983 stance Force = e @ Elevation ter Displaced = sity of Water =	Minutes > 5 m 00% for Quadp feet feet feet CF CF CF CF Ibs/CF Ibs/CF Ibs. CF Ibs/CF Ibs. 155,066 81.50 1,967 62.4	inutes, OK fex lbs. feet CF lbs/CF
	Wet Well Con	Slab Lip = Slab Diameter = Slab Thickness = Introl Levels: Assume Ground Water Tabl Influent Gravity Sew Audible Alarm 4 TH Pump&Alarm I 3 RD Pump&Alarm I 2 ND Pump & Alarm I 2 ND Pump & Alarm I Station Pump & Alarm I Station Finish Grac Minimum Station Min. Station Easement Len Forcemain High Poir Connection Poir	18 12.33 12 Top Elevation e @ Elevation er Invert Elev. Freeboard = ON Elevation Freeboard = Light ON Elev. Freeboard = Light ON Elev. Freeboard = Light ON Elev. Freeboard = Light ON Elev. Freeboard = DN Elev. Freeboard = Light ON Elev. Freeboard = Depth = D	Inches feet Inches 82.00 81.50 61.72 0.72 61.00 1.00 0.00 0.00 0.00 0.00 0.00 0.0	Cycle Tir Note: Allow ar Note: Rule of Feet Feet Feet Feet Feet Feet Feet Fee	torage Depth = ne for Peak Flow a additional 50% 3 Thumb: Min. Q = V. Buoyancy C Struct Struc	2.17 Condition, T = Storage Depth 150 gpm alculation: cure Rim El. = ure Base El. = ure Base El. = ure Volume = Wall Volume = Wall Volume = of Concrete = of Concrete = of Concrete = of Concrete = Above Slab = Total Resis md.Water Tabl Volume of Wa	Feet (Pump O 10 for Triplx and 10 82.00 54.50 27.50 1,382 499 119 619 144 89,083 1,404 47 65,983 stance Force = e @ Elevation ter Displaced = sity of Water =	Minutes > 5 m 00% for Quadp feet feet feet CF CF CF CF Ibs/CF Ibs/CF Ibs. CF Ibs/CF Ibs. 155,066 81.50 1,967 62.4	inutes, OK fex lbs. feet CF lbs/CF

LIFT STATION CALCULATIONS (Cont'd) Venezia Lift Station #2

VI. Calculation of System Head Curve:

vi.	Calculation of System Head	Curve:											Pump Selection		lygt 15	hp
	Total Static Head =	69.00	Feet										Model; I Impeller:	265	2. Curve: 63-487-0 mm	0-3600
													No. Pumps in P			
1 I													Operating Point =	326	gpm @ 94	ft TDH
				ation				Force Ma	in Pipin	9			OP 2 Pumps =		gpm @	ft TDH
				ping		2 <u>n-Site</u>	New (<u> On-Site</u>	New (Off-Site	Δ	/A	OP 3 pumps =		gpm @	ft TDH
	Pipe Length (feet)			30	1,:	260	5,	600	3,	140		0	· ·			
	Pipe Inside Dia. (i			6		8		8		10		12	Wet Well Area =	50,3	st per wet well	
	Pipe Area (SqFt.)		196		349		349		545		785	Pump On Ei. =	59.00	ft	
	Pipe Material)IP		VC		VC		VC		VC	Pump Off El. =	56,00	ft	
	Roughness C			00		20		20		20		20	Storage Volume =	151	cf	
	Fitlings:	K-Value	No.	Tot.K	No.	Tot K	No.	Tot K	No.	Tot K	No.	Tot K		1,128	gallons per wet we	II
	Discharge	1.0	1	1.0	٥	0,0	0	0,0	1	1.0	0	0.0				
	90° Bend	0,6	2	1,2	0	0,0	D	0,0	2	1.2	0	0,0	Pump On Time = \$	Storage	Volume / (Outflow -	Inflow)
	45° Bend	0.4	2	0,8	4	1.6	4	1.6	4	1.6	D	0.0	=	9,2	minutes (Peak)	
	22,5° Bend	0.25	Ð	0.0	4	1.0	4	1.0	4	1.0	0	0,0	=	4.1	minutes (Average)) (
	11.25° Bend	0.15	0	0.0	0	0	0	0,0	0	0.0	0	0.0	Pump Off Time = \$	Storage	Volume / (Inflow)	
	Expansion	0,5	0	0.0	1	0.5	1	0.5	0	0.0	0	0.0	=	5,5	minutes (Peak)	
1	Plug Valve	0.4	1	0,4	2	0.8	6	2.4	3	1.2	0	0.0	=	22.2	minutes (Average)) (
	Check Valve	2.5	1	2.5	0	0,0	0	0.0	0	0.0	0	0,0				
	Wye Branch	0.5	1	0.5	0	0,0	0	0.0	D	0.0	0	0.D	Inflow =	51	gpm (Average)	
	Contraction	0.5	۵	0.0	0	0.0	0	0.0	0	0.0	0	0.0	Inflow =	204	gpm (Peak)	
	Total K-Value			6,4		3,9		5.5		6.0		0.0	Outflow =	326	gpm	
						8			8			10	_	12	_	
S	tep Interval = 25	gpm	Add. Ma	nifold Flow	s (gpm):	D			0			0		0		

		1				Pipe & I	Fitting Fric	tion Loss	on Losses in Feet - Velocity in Feet per Second									
	1		6			8			. 8			10		1	12		Friction	TDH
	Q (gpm)	Pipe		Velocity	Pipe		Velocity	Pipe		Velocity	Pipe	Fittings	Velocity	Pipe	Fittings	Velocity	Head	
		(ft)	(ft)	(fps)	(ft)	(ft)	(fps)	(ft)	(ft)	(fps)	(ft)	(ft)	(fps)	(ft)	(ft)	(fps)	(feet)	(feet)
	0	0.00	0.00	0.0	0.00	0.00	0,0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	69.00
	25	0.01	0.01	0.3	0.03	0.00	0.2	0.13	0.00	0.2	0.02	0.00	D.1	0.00	0.00	0.0	0.20	69.20
1	50	0.02	0.03	0.6	0.11	0.01	0.3	0.47	0.01	0.3	0.09	0.00	0.2	0.00	0.00	0.0	0.73	69.73
	75	0.04	0.07	0.9	0.23	0.01	0.5	0.99	0.02	D.5	0.19	0.01	0.3	0.00	0.00	0.0	1.56	70.56
	100	0.07	0.13	1.1	0.39	0.02	0.6	1.69	0.03	0.6	0.32	0.02	0.4	0.00	0.00	0.0	2.67	71.67
	125	0.11	0.20	1.4	0.58	0.04	0.8	2.55	0.05	0.8	0.49	0.02	0,5	0.00	0.00	0.0	4,05	73.05
ſ	150 175	0.15	0.29	1.7	0.82	0.06	1.0	3.58	0.08	1.0	0.68	0.03	0,6	0.00	0.00	0.0	5.69	74.69
ω	200	0.21	0.51	2,0 2.3	1.09 1.39	0.08 0.10	1.1	4.76 6.10	0.11	1.1	0.91	0.05	0.7	0.00	0.00	0.0	7.58	76.58
IΣ	200	0.20	0.65	2.5	1.39	0.10	1.3 1.4	7.58	0.14 0.18	1.3 1.4	1,16 1.44	0.06	0.8	0.00	0.00	0.0	9.73	78.73
Curve	250	0.40	0.80	2.5	2.10	0.12	1.6	9.21	0.18	1.4 1.6	1.44	0.08 0.10	0.9 1.0	0.00 0.00	0.00	0.0 0.0	12.11 14.74	81.11 83.74
	275	0.40	0.80	3.1	2.51	0.15	1.8	10.99	0.22	1.8	2.09	0.10	1.1	0.00	0.00	0.0	17.61	86.61
l 📅	300	0.57	1.15	3.4	2.95	0.22	1.9	12.91	0.20	1.0	2.05	0.12	1.2	0.00	0.00	0.0	20.72	89.72
a	325	0.66	1.35	3.7	3.42	0.26	2.1	14.97	0.37	2.1	2,85	0.14	1.3	0.00	0.00	0.0	24.05	93,05
Head	326	0.67	1.36	3.7	3.44	0.26	2.1	15.06	0.37	2.1	2.87	0.10	1.3	0.00	0.00	0.0	24.19	93.19
	350	0.77	1.57	4.0	3.92	0.30	2,2	17.18	0.43	2.2	3.27	0.19	1.4	0.00	0.00	0.0	27.62	96.62
System	375	0.87	1.80	4.3	4.46	0.35	2.4	19.51	0.49	2,4	3.71	0.22	1.5	0.00	0.00	0.0	31.41	100.41
<u>e</u>	400	0.99	2.05	4,5	5.03	0.39	2.6	21.99	0.56	2.6	4.19	0.25	1.6	0.00	0.00	0.0	35.44	104.44
<u>s</u>	425	1.11	2.31	4.8	5,62	0.45	2.7	24.60	0.63	2.7	4.68	0.28	1.7	0.00	0.00	0.0	39.68	108.68
ିତ	450	1.23	2.59	5.1	6.25	0,50	2.9	27.35	0.70	2.9	5.21	0.31	1.8	0.00	0.00	0.0	44.15	113.15
	475	1.37	2.89	5.4	6.91	0.56	3,0	30.22	0,78	3.0	5.75	0.35	1.9	0.00	0.00	0.0	48.83	117.83
1	500	1.51	3,20	5.7	7.60	0.62	3.2	33.23	0.87	3,2	6.33	0.39	2.0	0.00	0.00	0.0	53.74	122.74
	525	1.65	3.53	6.D	8.32	0.68	3.4	36.37	0.96	3.4	6.93	0.43	2.1	0.00	0.00	0.0	58.87	127.87
i I	550	1.81	3.87	6.2	9.07	0.75	3.5	39.65	1.05	3.5	7.55	0.47	2.2	0.00	0.00	0.0	64.21	133.21
	575	1.96	4.23	6.5	9.85	0.82	3.7	43.04	1.15	3.7	8.20	0.51	2.3	0.00	0.00	0.0	69.76	138.76
	600	2,13	4.61	6.8	10.66	0.89	3.8	46.57	1.25	3.8	8.87	0.56	2.5	0.00	0.00	0.0	75.53	144.53
	625	2.30	5,00	7.1	11.49	0.96	4.0	50.23	1.36	4.0	9.56	0.61	2.6	0.00	0.00	0,0	81.51	150.51
	650	2.48	5.41	7.4	12.36	1.04	4,1	54.01	1.47	4.1	10.28	0,66	2.7	0.00	0.00	0.0	87.71	156.71
	675	2.66	5.83	7.7	13.25	1.12	4.3	57.92	1.59	4.3	11.03	0.71	2,8	0.00	0.00	0.0	94.11	163.11
	700	2.86	6,27	7,9	14.18	1.21	4,5	61.95	1.70	4.5	11.80	0.76	2.9	0.00	0.00	0.0	100.72	169.72
	725	3.05	6.72	8.2	15.13	1,30	4.6	66.10	1.83	4.6	12.59	0.82	3.0	0.00	0.00	0.0	107.54	176.54
	750	3.26	7.20	8.5	16.11	1.39	4.8	70.39	1.96	4.8	13.40	0.87	3.1	0.00	0,00	0.0	114.57	183.57

APPENDIX D

Venezia's Existing Lift Station Record Drawings

RTU SYSTEM SPECIFICATIONS:

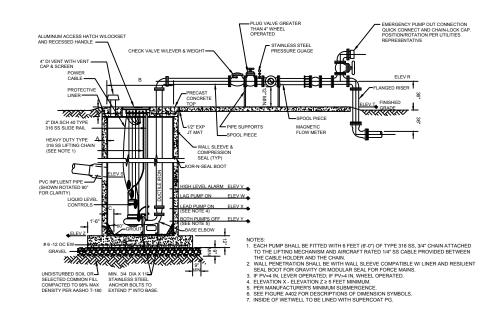
- 1. A MICROPROCESSOR-BASED PUMP CONTROLLER/TRANSCEIVER (CC) MODEL SIEMENS WATER TECHNOLOGIES LC-150 SHALL BE PROVIDED
- 2. THE RTU SHALL BE MOUNTED IN A NEMA 3R 316 STAINLESS STEEL ENCLOSURE ADJACENT TO THE PUMP CONTROL PANEL AND SHALL BE PROVIDED WITH A CLASS II UL LISTED TRANSFORMER/POWER SUPPLY.
- 3. STANDARDS
- A. FCC PART 15, SUBPART J, CLASS A RADIO EMISSIONS B ANSI/IEEE C37 90 - SURGE WITHSTAND CAPABILITY C. ANSI/IPC-S815A - QUALITY CONTROL
- 4. APPROVED SYSTEM SUPPLIER IS SIEMENS WATER TECHNOLOGIES. CONTACT RON ROBINETTE 800-247-0880

GENERAL NOTES:

- 1. COATING SHALL BE AS SCHEDULED IN TABLE BELOW.
- 2. ALL LOCATIONS WHERE GRAVITY PIPES ENTER OR LEAVE THE WET WELL SHALL BE MADE TERTIGHT WITH AN APPROVED BOOT
- 3. ALL LOCATIONS WHERE PRESSURE PIPES ENTER THE WET WELL SHALL BE MADE WATERTIGHT WITH A WALL SLEEVE AND SEAL.
- 4. THERE SHALL BE NO VALVES OR ELECTRICAL JUNCTION BOXES IN THE WET WELL.
- 5. WET WELL COVERS SHALL BE ALUMINUM WITH 316 STAINLESS STEEL HARDWARE WITH LOCK BRACKET.
- 6. ALL HARDWARE IN WET WELL SHALL BE 316 STAINLESS STEEL.
- 7. PUMP SUBMERGENCE REQUIREMENTS SHALL BE MET AS MINIMUM.
- 8 ALL CONNECTIONS IN THE WET WELL SHALL BE FLANGED JOINTS ALL REMAINING CONNECTIONS BETWEEN THE WET WELL STALE DE L'ENGED SONNE. ALL REMAINING CONNECTIONS BETWEEN THE WET WELL AND THE CONNECTION TO THE FORCE MAIN SHALL BE RESTRAINED MECHANICAL JOINTS.
- 9. CHECK VALVE ARM SHALL BE LOCATED WITH THE SAME ORIENTATION (i.e. ALL ARMS ON THE LEFT SIDE OF VALVE).

PUMP STATION COATING SCHEDULE						
AREA	APPLICABLE COATING NOTES					
Outside of Wet Well	"Surface Coatings - Exterior"	Conceal: CS-S5				
Inside of Wet Well	"Wet Well Lining Systems"	Supercoat PG or approved equal				
Fillet and Bottom of Wet Well	100% solids Epoxy as per lining manufacturer's recommendation	Manufacturer warrants performance of liner				
Wet Well Piping	"Ductile Iron Pipe Coating and Lining (for use in Pump Station Wet Wells)	Protecto 401 Ceramic Epoxy				
Exposed Metal Except Stainless Steel and Aluminum	"Painting Finish Aerial Piping (Field Primer) and Painting Finish (Exterior)"	Tnemac: 37-77 H Chem-Primer Tnemac: Gloss 2H Finish				

PUMP STATION GENERAL NOTES



CHECK VALVE

W/LEVER AND

RESTRAINED MJ SLEEVE

(TYP)

1. IF PV=4 IN, LEVER OPERATED: IF PV>4 IN, WHEEL OPERATED. 2.SEE FIGURE A402 FOR DESCRIPTIONS OF DIMENSION SYMBOLS

PUMP DATA WETWELL INSIDE DIA. 8'0" FLYGT SUBMERSIBLE PUMPS MODEL NUMBER NP3153.181 IMPELLER 253 HORSE POWER 15 G.P.M<u>.</u> 294 T.D.H<u>.</u> 87.0 ELECTRICAL REQUIREMENTS 230 V 3 PHASE NOTE: ELECTRICAL REQUIREMENT TO BE VERIFIED BY CONTRACTOR.

NOTE 1 PER PUMP MANUFACTURER'S REQUIREMENTS

DESCRIPTION THICKNESS OF WALL

DIAMETER OF WET WELL

WIDTH OF BOTTOM FILLI

LENGTH OF PUMP ACCE

WIDTH OF PUMP ACCES

BASE ELBOW TO EDGE (

VALVE BOX HATCH OPER

VALVE BOX HATCH OPER

C/L TO C/L OF PUMPS

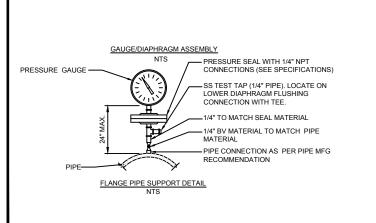
PLIMP DATA WETWELL INSIDE DIA, 8'0" ____ SUBMERSIBLE PUMPS FLYGT MODEL NUMBER CP3152.181 IMPELLER 265 HORSE POWER 15 G.P.M. 326 T.D.H. 94.0 ELECTRICAL REQUIREMENTS 480 V 3 PHASE

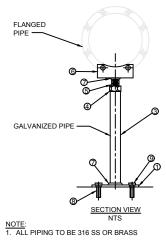
NOTE: ELECTRICAL REQUIREMENT TO BE VERIFIED BY CONTRACTOR.

NOTE

	DESCRIPTION
	THICKNESS OF WALL
	DIAMETER OF WET WELL
	WIDTH OF BOTTOM FILLE
	C/L TO C/L OF PUMPS
	LENGTH OF PUMP ACCES
PUMP DATA	WIDTH OF PUMP ACCESS
WETWELL INSIDE DIA. 8'0"	BASE ELBOW TO EDGE O
FLYGT SUBMERSIBLE PUMPS	VALVE BOX HATCH OPEN
MODEL NUMBER NP3102	VALVE BOX HATCH OPEN
IMPELLER 135	TOP OF WET WELL
HORSE POWER 6.5	FINISHED GRADE
G.P.M. 200 T.D.H. 65.0	HIGH LEVEL ALARM
ELECTRICAL REQUIREMENTS 230 V	LAG PUMP ON
3 PHASE *	LEAD PUMP ON
	PUMPS OFF (TOP OF PUM
NOTE: ELECTRICAL REQUIREMENT TO BE VERIFIED BY CONTRACTOR.	FLOOR OF WET WELL
BE VERIFIED BY CONTRACTOR.	

NOTE 1. PER PUMP MANUFACTURER'S REQUIREMENTS





WALL SLEEVE AND COMPRESSION SEAL (TYP)

PVC

PIPE

OUTLINE O ACCESS

OPENING

NOTES:

HOLDER

INFLUENT-



LEGEND 1. BASE 2. MOUNTING HOLE (4-TYP) 3. SUPPORT COLUMN 4. HEIGHT ADJUSTMENT NUT 5. SUPPORT SHAFT - THREADED 6. PIPE SUPPORT FLANGE 7. WELD 8. ANCHOR (4-TYP) 9. LAG BOLT (4-TYP)

(TYP)

-PLUG VALVE

(SEE NOTE 1

SPOOL PIECE

PUMP DAT
WETWELL INSIDE DIA
FLYGT SUBME
MODEL NUMBER N
IMPELLER 135
HORSE POWER 6.5
G.P.M <u>.</u> 200 T.
ELECTRICAL REQUIR

TOP OF WET WELL FINISHED GRADE HIGH LEVEL ALARM LAG PUMP ON LEAD PUMP ON PUMPS OFF (TOP OF PUI FLOOR OF WET WELL



DESCRIPTION

THICKNESS OF WALL DIAMETER OF WET WELL

WIDTH OF BOTTOM FILLE

C/L TO C/L OF PUMPS

LENGTH OF PUMP ACCE

WIDTH OF PUMP ACCES

BASE ELBOW TO EDGE O

VALVE BOX HATCH OPER

VALVE BOX HATCH OPEN

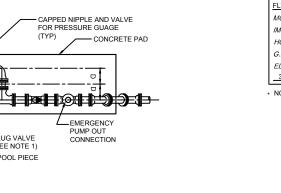
TOP OF WET WELL

HIGH LEVEL ALARM

PUMPS OFF (TOP OF PUN FLOOR OF WET WELL

FINISHED GRADE

LAG PUMP ON LEAD PUMP ON



DUPLEX PUMP STATION PLAN

FIGURE A404-2

_ * N

LIFT STATION #3

2. ELEVEVATION X - ELEVATION Z ≥ 5 FEET MINIMUM 3. TOP ELEVATION OF WET WELL SHALL BE A MINIMUM OF 1' ABOVE THE 100 YEAR FLOOD ELEVATION AND THE ELEVATION OF THE CROWN OF THE ROAD.

	A	8"	-
L	В	8'	_
ET	С	SEE NOTE 1	-
	D	SEE NOTE 1	-
ESS OPENING	E	SEE NOTE 1	_
SS OPENING	F	SEE NOTE 1	-
OF PIT	G	SEE NOTE 1	-
NING	Н	5.0'	-
INING	I	7.0'	-
	Т	-	82.00'
	U	-	81.50'
	V	-	69.00'
	W	-	68.00'
	х	SEE NOTE 2	67.00'
JMP VOLUTE)	Y	-	65.50'
	Z	_	64.00'

DIMENSION ELEVATION

SYMBOL

LIFT STATION #2

NOTE: 1. PER PUMP MANUFACTURER'S REQUIREMENTS 2. ELEVEVATION X - ELEVATION Z ≥ 5 FEET MINIMUM 3. TOP ELEVATION OF WET WELL SHALL BE A MINIMUM OF 1' ABOVE THE 100 YEAR FLOOD ELEVATION AND THE ELEVATION OF THE CROWN OF THE ROAD

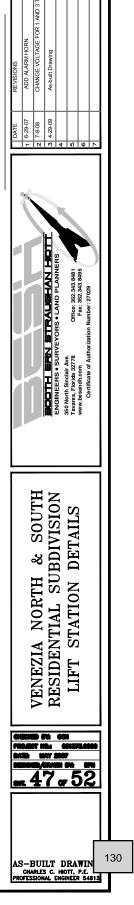
	OTHEOL	DIMENSION	LELIANON	
	A	8"	_	Ī
L	В	8'	-	1
ET	С	SEE NOTE 1	-	
	D	SEE NOTE 1	-	
SS OPENING	E	SEE NOTE 1	-	
S OPENING	F	SEE NOTE 1	-	
OF PIT	G	SEE NOTE 1	-	
NING	Н	5.0'	-	
NING	I	7.0'	-	
	Т	-	-02.001	82.12'
	U	-	81.50'	
	V	-	61.00'	
	W	-	60.00'	
	х	SEE NOTE 2	59.00'	
MP VOLUTE)	Y	-	55.50'	
	Z	_	-54-00-	54.29

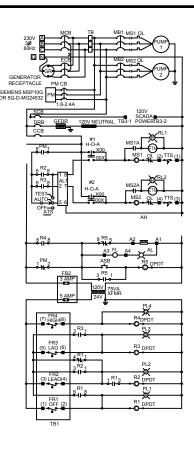
SYMBOL DIMENSION ELEVATION

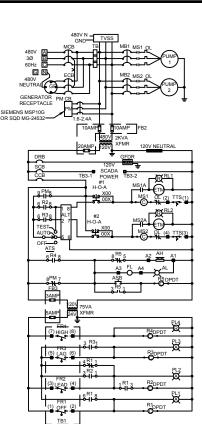
LIFT STATION #1

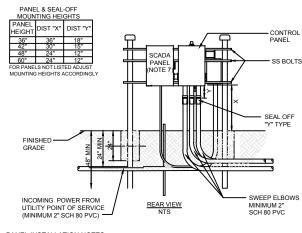
PER POINT MANUFAU TORES & REQUIREMENTS
 ELEVEVATION X > ELEVATION Z ≥ 5 FEET MINIMUM
 TOP ELEVATION OF WET WELL SHALL BE A MINIMUM OF 1' ABOVE THE 100 YEAR FLOOD ELEVATION AND THE ELEVATION OF THE CROWN OF THE ROAD.

	SYMBOL	DIMENSION	ELEVATION	
	A	8"	-	T
L	В	8'	-	
ET	С	SEE NOTE 1	-	
	D	SEE NOTE 1	- 1	
SS OPENING	E	SEE NOTE 1	-	
S OPENING	F	SEE NOTE 1		
OF PIT	G	SEE NOTE 1	-	
NING	н	5.0'	-	
NING	1	7.0'	-	
	Т	-	-00.00	88.94
	U	-	88.50'	
	V	-	71.00'	
	W	-	70.00'	
	Х	SEE NOTE 2	69.00'	
MP VOLUTE)	Y	-	65.00'	1
	z	-	-69.59-	63.33



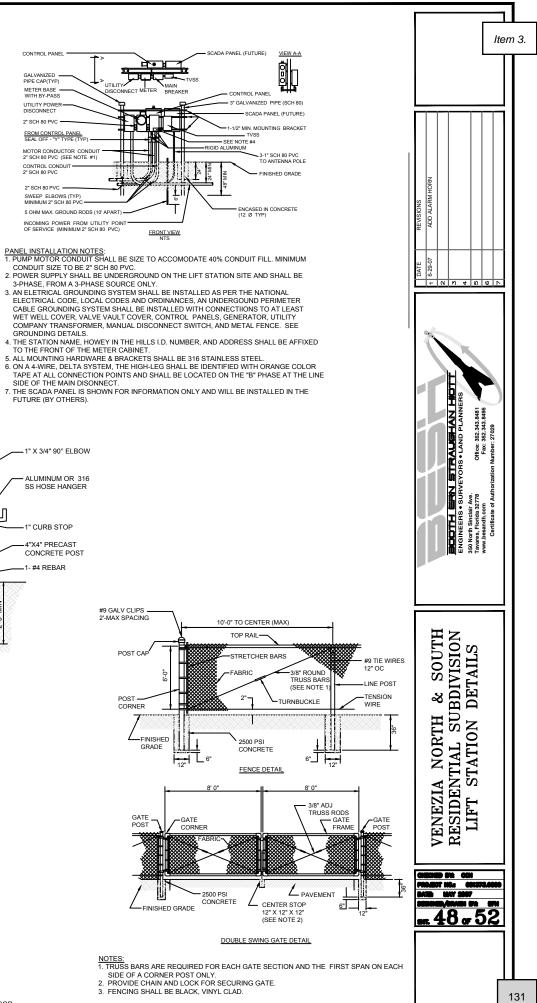




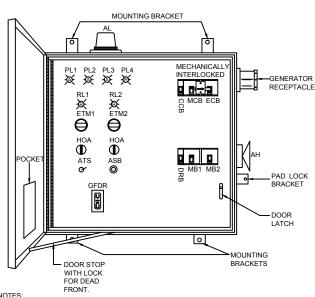


PANEL INSTALLATION NOTES: 1. PUMP MOTOR CONDUIT SHALL BE SIZE TO ACCOMODATE 40% CONDUIT FILL. MINIMUM CONDUIT SIZE TO BE 2" SCH 80 PVC.

- POWER SUPPLY SHALL BE UNDERGROUND ON THE LIFT STATION SITE AND SHALL BE 3-PHASE, FROM A 3-PHASE SOURCE ONLY. AN ELECTRICAL GROUNDING SYSTEM SHALL BE INSTALLED AS PER THE NATIONAL ELECTRICAL CODE, LOCAL CODES AND ORDINANCES. AN UNDERGROUND PERIMETER CABLE GROUNDING SYSTEM SHALL BE INSTALLED WITH CONNECTIONS TO AT LEAST
- WET WELL COVER, VALVE VAULT COVER, CONTROL PANELS, GENERATOR, UTILITY COMPANY TRANSFORMER, MANUAL DISCONNECT SWITCH, AND METAL FENCE. REFER TO GROUNDING DETAILS.
- THE STATION NAME, UTILITIES ID NUMBER, AND ADDRESS SHALL BE AFFIXED TO THE FRONT OF THE METER CABINET.
 ALL MOUNTING HARDWARE AND BRACKETS SHALL BE 316 STAINLESS STEEL.
- 6. ON A 4-WIRE, DELTA SYSTEM, THE HIGH-LEG SHALL BE IDENTIFIED WITH ORANGE COLOR TAPE AT ALL CONNECTION POINTS AND SHALL BE LOCATED ON THE "B" PHASE AT THE LINE SIDE OF THE MAIN DISCONNECT.
- 7. THE SCADA PANEL IS TO SHOWN FOR INFORMATION ONLY AND WILL BE INSTALLED IN THE FUTURE (BY OTHERS).

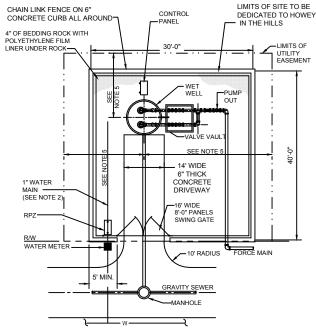


- FUTURE (BY OTHERS)



- NOTES:
- DEADFRONT LAYOUT NEMA TYPE 3R SS ENCLOSURE W/CONTINUOUS HINGE. ALL HARDWARE TYPE 316 SS TYPICAL, ACTUAL LAYOUT MAY VARY WITH HORSEPOWER.
 THIS CONTROL PANEL, INCLUDING THE GENERATOR RECEPTACLE, COMPLIES WITH THE
- TANDARD LIST OF COMPONENTS REQUIRED BY UTILITIES. ALL CONTROL WIRE TO BE #14 AWG MINIMUM. CONTROL PANEL SHALL BE UL LISTED AND LABELED. 30 SPARE TERMINALS (TB2).

- BUSEARE TERMINALS (182).
 PHASE MONITOR CIRCUIT BREAKER TO BE SEIMENS P/N: MSP10G, OR SQ-D P/N: MG24532.



NOTES

1. MINIMUM 20' ACCESS DRIVEWAY FROM EDGE OF PAVEMENT TO THE GATE SHALL BE PROVIDED ON NON-RESIDENTIAL ROADS. SHALL BE PROVIDED ON NON-RESIDENTIAL ROADS. 2.WASHDOWN WATER SOURCE SHALL BE CONNECTED TO THE POTABLE WATER MAIN. 3.ENGINEER SHALL PROVIDE A SCALED (1* = 20 MIN.) SITE SPECIFIC DETAIL. 4.MINIMUM DISTANCE BETWEEN FENCE AND ALL INSTALLED EQUIPMENT SHALL

BE 5. 5.THIS DIMENSION SHALL BE AT LEAST EQUAL TO THE DEPTH OF THE WET WELL WHEN MEASURED FROM THE CENTER OF THE WET WELL.

3/4" BRASS HOSE BIB	1" X 3/4" 90° ELBOW
	ALUMINUM OR 316 SS HOSE HANGER
ECURE TO POST WITH 316 SS STRAPS	1° CURB STOP 4°X4° PRECAST CONCRETE POST
1" SCH 80 PVC PIPE	1- #4 REBAR
18. MIN	NWN-0-22
PVC TO BRASS 90° ELBOW	

LIFT STATION POTABLE WATER SERVICE

AL

FB

FL

FR

OL PL

PM

R

RL

LEGEND AH _ ALARM HORN _ ALARM LIGHT ASB _ ALARM SILENCE BUTTON ATS _ ALTERNATOR TEST SWITCH CCB _ CONTROL CIRCUIT BREAKER DPDT _ DOUBLE POLE DOUBLE THROW DRB _ DUPLEX RECEPTACLE BREAKER ECB EMERGENCY CIRCUIT BREAKER ETM _ ELAPSED TIME METER _ FUSE _ FUSE BLOCK _ FLASHER _ FLOAT REGULATOR GFDR _ GROUND FAULT DUPLEX RECEPTACLE GR _ GENERATOR RECEPTACLE HOA _ HAND-OFF-AUTO SELECTOR SWITCH MB _ MOTOR BREAKER MCB _ MAIN CIRCUIT BREAKER MS _ MOTOR STARTER _ OVERLOAD _ PILOT LIGHT _ PHASE MONITOR _ RELAY _ RUNNING LIGHT SCB _ SCADA CIRCUIT BREAKER

TB _ TERMINAL BLOCK

TTS _ THERMAL TERMINAL STRIP

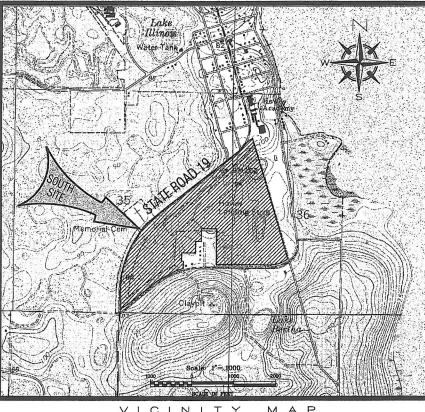
- TVSS _ TRANSIENT VOLTAGE SURGE SUPPRESOR
- XEMR TRANSFORMER

CHARLES C. HIOTT, P.E.

CONSTRUCTION PLANS FOR **Venezia South Subdivision**

Section 35 & 36, Township 22 South, Range 25 East Town of Howey in the Hills, Lake County, Florida

WAIVER REQUEST REQUEST WAIVER FOR LENGTH OF CUL - DE- SACs TERRACOTTA TERRACE TO BE 1410' LF CALABRIA WAY TO BE 1088' LF INSTEAD OF THE REQUIRED 600' LF



VICINITY

OWNER:

FRED BENNETT LYKES BROTHERS, INC. 400 NORTH TAMPA STREET TAMPA, FLORIDA 33601 (813) 470-5509 (813) 470-5020 FAX

DEVELOPER:

FLAGSHIP HARB, LLC 916 HIGHLAND AVENUE ORLANDO, FLORIDA 32803 (407) 246-1144 (407) 246-1155 FAX CONTACT: TED BOLIN

LEGAL DESCRIPTION

ENGINEER:

(352) 343-8481

350 NORTH SINCLAIR AVENUE

CONTACT: CHARLES HIOTT, P.E.

TAVARES, FLORIDA-32778

BOOTH, ERN, STRAUGHAN & HIOTT, INC.

ENCE 389*50'24 W. A DISTANCE DE 232 87 EEET TO THE POINT OF REGIMAN

SHEET INDEX

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13.

Cover Sheet Aerial Overlav Master Site Plan Sheet A Master Site Plan Sheet B Boundary & Topographic Survey Boundary & Topographic Survey Boundary & Topographic Survey Land Use Summary Sheet A Land Use Summary Sheet B Utility Plan Sheet A Utility Plan Sheet B Grading Plan Sheet A Grading Plan Sheet B Intersection Details Sheet A Intersection Details Sheet B Erosion Control/S.W.P.P.P. Sheet A Erosion Control/S.W.P.P.P. Sheet B Drainage Plan Sheet A Drainage Plan Sheet B Venezia Boulevard (Sta. 100+00 to 113+50) Plan & Profile Venezia Boulevard (Sta. 113+50 to 119+36.07) Plan & Profile Bellissimo Place (Sta. 200+00 to 214+50) Plan & Profile Bellissimo Place (Sta.214+50 to 226+50) Plan & Profile Bellissimo Place (Sta. 226+50 to 232+21.41) Plan & Profile Napoli Way Plan & Profile Terracotta Terrace Plan & Profile Messina Place (Sta. 500+00 to 510+00) Plan & Profile Messina Place (Sta. 510+00 to 519+00) Plan & Profile Calabria Way Plan & Profile FINA MITTED **Tree Location Plan** ALAL'S Drainage Cross-Sections DATE 12-05-07 Sanitary Sewer Details Lift Station Details * See Revised Sheet Potable Water Details Revol 10-31-RECEIVED **Reclaimed Water Details** JUN 2 9 200 JUN 2 9 2007 Paving & Drainage Details PDS **General Project Details** STATE OF FLORIDA CERTIFICATION OF AUTHORIZATION NO. 27029

UTILITY CONSTRUCTION NOTES (DEP)

2-555.314 Location of Public Water System Maine: For the purpose of this section, the phrase "Water Mains" shall mean Maine, including Treatment Plant process piping, conveying ther raw, partially treated, or finished drinking water; Fire Hydramizeds; and service lines that are under the control of a Public Water System and that have an inside tables or greater. Tion Between Underground Water Mains and Sanitary or Storm Sowers, Wastewater or Storm water Force Mains, Reclaimed Water Pipelines, and On-site Sewage

Tal departion fetteres Underground Fatr Mains and Gastity of store Gaster, manufactor do cauto activity of store Lates (3) Three fast interess the ortaids of the MATR MAIN and the ortaids of proposed Store Boser, Store water Force stars, or pipeline converging reclaims water regulated under Part III of Chapter 42-868, F.A.C. Proposed Store Boser, Store water Force stars, or pipeline converging reclaims water regulated under Part III of Chapter 42-868, F.A.C. The store of the store water force stars, or pipeline converging reclaims water regulated under Part III of Chapter 42-868, F.A.C. The store of the store water force stars, or pipeline converging reclaims water regulated under Part III of Chapter 42-868, F.A.C. The store of the store water force stars, or pipeline converging reclaims water store the store of the stor stance of at Lesst (3) Three fest between the outside of the WATER MAIN and the outside of Ined water regulated under Part III of Chapter 62-500, F.A.C. stance of wit least (3) three fest, and preferably (10) Tar Meet, between the outside of the

pipeline. Detect, Uberground MATER MAINS crossing any existing or proposed pressure-type samilary sever, wastewater or stormarter Force Main, or Pipeline conveying mail be lid to the outside of the WATER WAIN is at least (12) inches ABOWE or BELOW the Outside of the other pipeline. However, it is preferable to lay the WATER

ar plating. The presence described in paragraphs (a) 4 (b) Above, one tall length of mater min Pipe shall be centered above or beach to make pipeling as the MHTB WAH for censing described in paragraphs (a) 4 (b) Above, one tall length of mater mining and the state of the state for a possible from the other pipeline. Alternatively, at such descript, the pipes shall be arranged to repeaked worth and such as at let (b) Trace free Vous-repeaked matery Second, there sheet, Stormagner Forse, Market States Hand, or pipeline converging relative dues not regalized work and regalized work for the state Vous-repeaked matery Second, there is not states for states the states man, or pipeline converging relative dues on the regalized work for the states of the states and the form of the states of the st

The ALL SLOTT is enviry or the presentation and the second state of the state of th

All ester min pipe, including fittings, installed on or ster August 28, 2003, except pipe installed under a construction parelt for which the Department received scalars exploration before August 28, 2003, shall be color coded or marked using bins as a presentant color to differentiate disking water from reliabled or or restor. Noder ground plattic pipe shall be policitable plat, phall here a constructed bins explored to the pipe state from reliabled or or restor. Noder ground bins are parallel be policitable plat, phall here a constructed bins explored to the pipe state from reliable or or restor. Society are on the restored and the pipe daring installation of the pipe, the topo or platt shall be splited in a state daring and state that pipe daring installation of the pipe. The pipe daring installation of the pipe, the topo or platt is and the police of a state and the pipe daring installation of the pipe. The pipe daring installation of the pipe, the topo or platt is a state of a state of a state of the pipe state and the pipe daring installation of the pipe. Th

GENERAL WATER NOTES

GENERAL WATER NOTES 1. There represented by introlled in strict accordance with all local nodes and repulsions, classed, disinfected and basteriologically classed for service in 1. There representes with the later and representes the service page stars of the service of the

SANITARY PIPE CHART

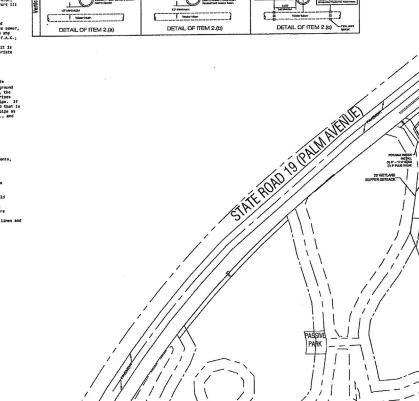
ſ	MANHOLE ID	STATION	RIM	INV	TO	INV	PIPE	LENGTH	SLOPE
ļ	LS1 MH 622	215+43.02	101.05	97.05	MH #21	96.07	8" SDR35	128UF	0.76%
	LS1 MH #21	214+13.12	100.07	95.97	MH #20	94.54	8" SDR-35	9 9LF	1.44%
	LS1 MH #20	213+10.52	98.54	94.44	MH #19	85.64	8" SDR-35	344LF	2.26%
	151 MH #19	209+64.65	90.65	85.54	MH #15	84.35	8" SDR-35	298LF	0.40%
	LS1 MH #18	302+22.76	87.32	83.32	HH #17	81.54	8" SDR-35	220LF	0.76%
	LS1 MH #17	201+11.90	85.64	81.54	MH #16	79.94	8" SDR-35	400LF	0.40%
		300+00.00	92.64	79.84	MH #15	79.27	8" SDR35	143LF	0.40%
	LS1 MH #18	205+64.40	93.88	79.17	MH 49	77.98	8" SDR-35	298LF	0.40%
	LS1 MH #15	400+00.00		96.73	MH #13	95.42	8" SDR-35	212LF	0.62%
	LS1 MH #14	512+22.76	100.83					166LF	0.99%
	LS1 MH #13	510+08.06	\$9.42	\$5.32	MH ∯12	93.68	6" SDR-35		
	LS1 HH #12	508+38.62	97.68	93.58	MH #11	92.30	6" 50R-35	132LF	0.97%
	LS1 MH #11	507+04.47	96.30	92.20	MH #10	88.49	8" SDR-35	368LF	1.01%
	US1 MH #10	503+34.27	92.49	88.39	ын фа	75.98	8" SDR-35	331LF	2.84%
	LS1 MH #9	403+01.75	89.07	77.88	MH #8	75,89	6" SDR35	247LF	0.40%
	LS1 MH 48	405+50.76	90.69	76.79	MH #7	76.30	8" SDR-35	123LF	0.40%
	LS1 MH #7	406+62.39	91.02	76.20	MH #6	75.59	8" SDR-35	153LF	0.40%
	LS1 WH #6	408+37.59	89.85	75.49	MH #5	73.93	8" SDR-35	390LF	0.40%
	LS1 MH #5	412+30.40	90.18	73.83	MH #4	73.27	8" SOR-35	140LF	0.40%
	LS1 MH 44	413+74.13	88.35	73.17	MH 03	72.83	8" SDR35	86LF	0.40%
	LS1 WH #3	410174.10	**	72.73	MH #2	71.92	8" SDR-35	2021F	0.40%
						71.68		341F	0.40%
	LS1 MH #2		XX	71.52	₩H ∯1		8" SDR-35		0.40%
	LS1 MH #1		XX	71.58	LS	71.54	8" SDR-35	11LF	0.40%

MANHOLE ID	STATION	RIM	INV	TO	INV	PIPE	LENGTH	SLOPE
L52 MH #28	234+30.58	83.39	78.39	MH #25	77.51	8" SDR-35	221LF	0.40%
LS2 MH #25	232+17.65	82.42	75.57	MH #24	74.46	8" SOR-35	278LF	0.40%
LS2 MH #24	229+35.28	83.47	74.36	MH #19	73.34	8" SDR-35	255LF	0.40X
LS2 MH #23	610+77.23	85.89	81.89	MH #22	81.23	8" SDR-35	166LF	0,40%
LS2 MH #22	609+07.66	87.77	81.13	MH #21	79.88	8" SOR-35	313LF	0.40%
L52 MH #21	605+90.45	89.31	79.78	MH #20	78.59	8" SDR-35	298LF	0.40%
LS2 MH #20	602+68.20	86.92	78.49	MH #19	77.35	8" SDR-35	285LF	0.40%
LS2 MH #19	226+74.97	83.80	73.24	MH #13	72.57	8" SDR35	168LF	0.40%
LS2 MH #18	217+40.71	100.51	96.51	MH #17	95.20	8" SDR-35	104LF	1.25%
LS2 MH #17	218+46.58	99.20	95.10	MH #16	93.59	8" SDR-35	85LF	1.78%
LS2 MH #18	219+35.42	97.59	93.49	MH #15	87.55	8" SDR-35	321LF	1.85%
LS2 MH #15	222+59.89	91.55	87.45	MH #14	86.08	8" 508-35	76LF	1.80%
LS2 MH #14	223+38.77	80.08	85.98	MH #13	79.50	8" SDR-35	162LF	4.00%
152 MH #13	225+03.90	87.00	72.47	MH #12	70.90	8" SDR-35	393LF	0.40%
LS2 MH #12	115+40.97	94.00	70.80	MH #11	69.81	8" SDR-35	248LF	0.40%
LS2 MH #11	112+90.97	90.26	69.71	WH #8	68.69	8" SDR-35	240LF	0.40%
LS2 MH #10	513+75.47	100.15	95.16	MH #9	94.85	8" SDR-35	103LF	1.26%
LS2 MH #9	514+80.65	88.86	94.76	MH 48	80.00	8" SDR-35	390LF	4.01%
LS2 MH #8	518+49.57	91.39	68.59	MH #7	67.30	8" SDR-35_	3221F	0.40%
152 MH #7	110+40.66	98.65	67.20	MH #6	66.28	8" SDR-35	2311F	0,40%
LS2 HH #6	104+86.40	100.36	55.18	MH #5	65.44	8" SDR-35	1861.F	0.40%
152 MH #5			65.34	MH #4	64.25	8" SDR-35	2721F	0,40%
LS2 MH #4		X	64.15	14H #3	63.34	6 50R-35	203LF	0.40%
LSZ WH #4		××		MH #2	62.49	8" SDR-35	167LF	0.40%
			63.24	LS NH #2	61.72		154LF	0.40%
LS2 MH #2		xx	62.39	LS I	01.72	8" SDR-35	1040	

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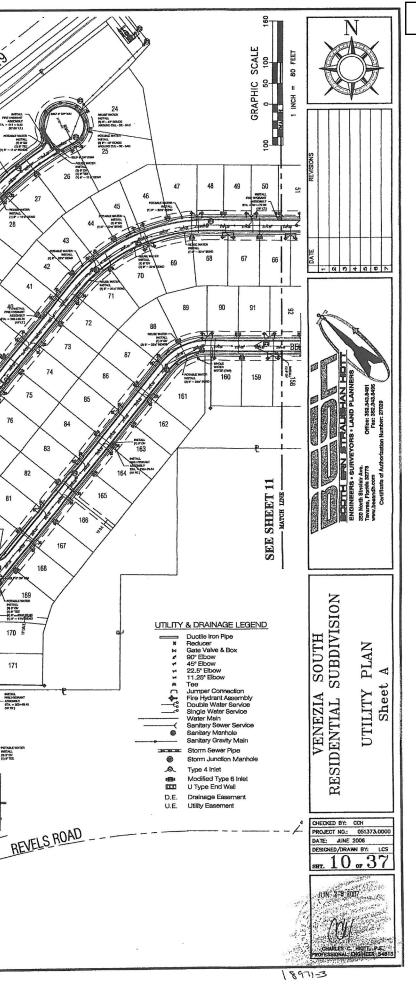
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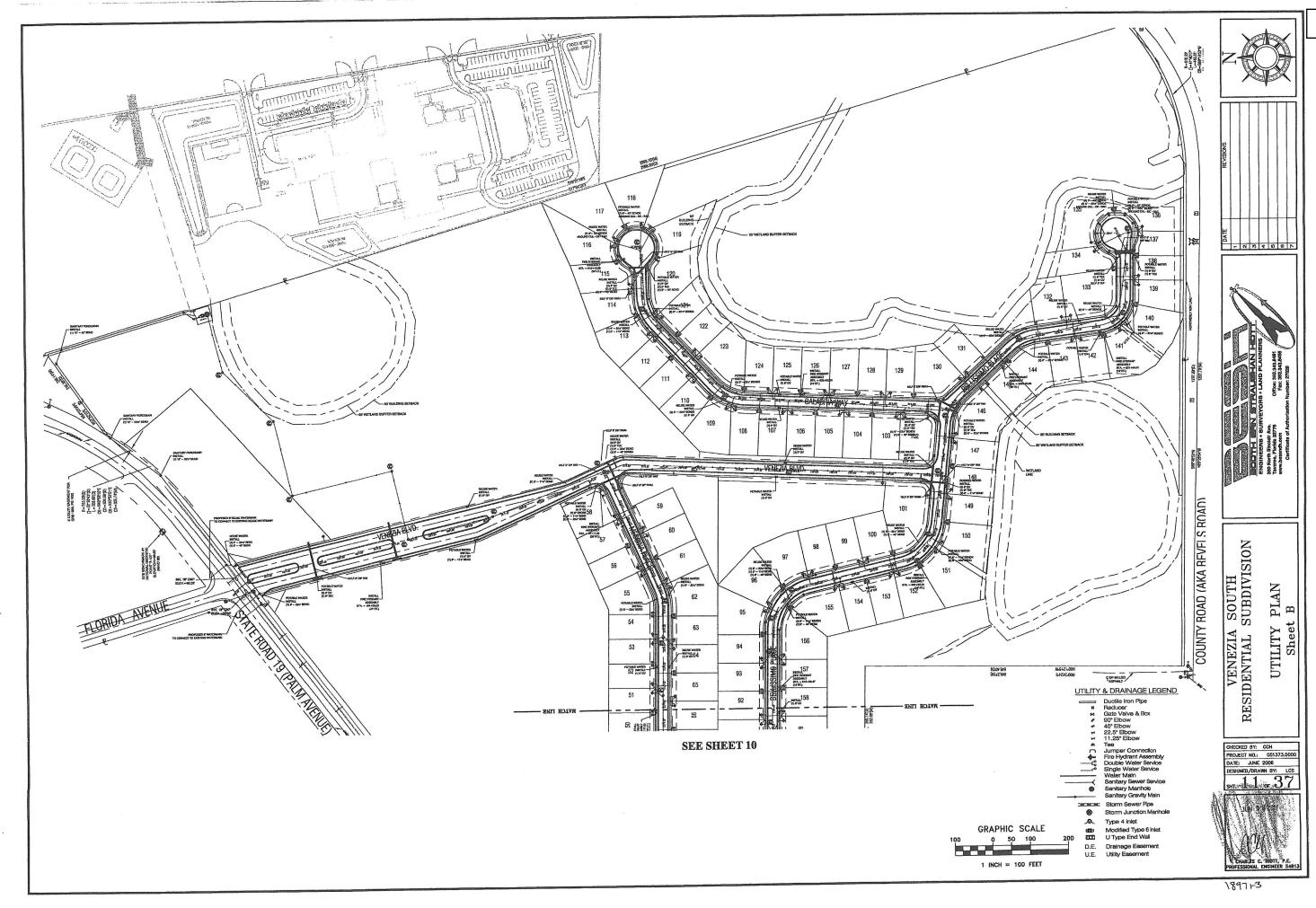
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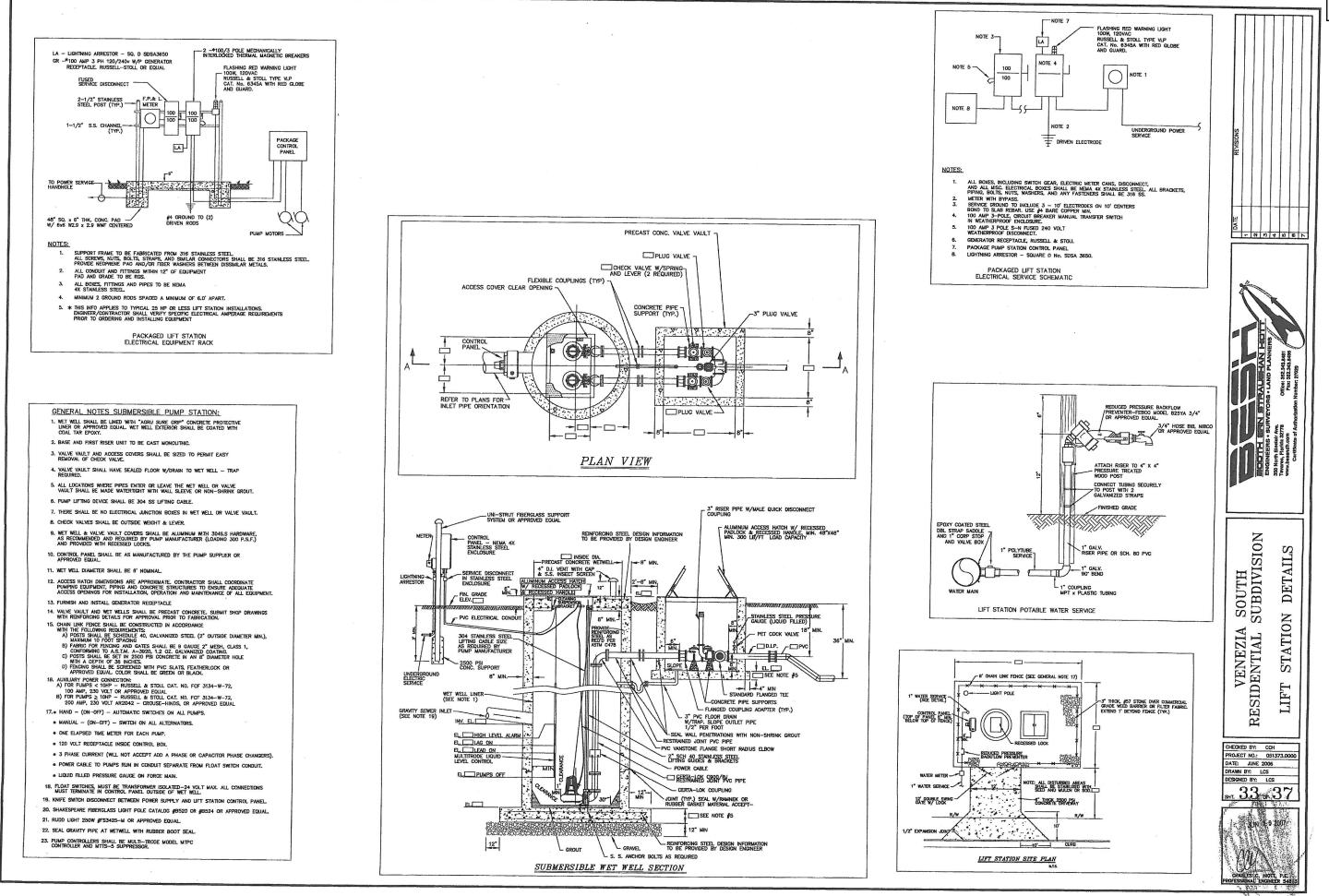
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OWNER:

FRED BENNETT LYKES BROTHERS, INC. 400 NORTH TAMPA STREET TAMPA, FLORIDA 33601 (813) 470-5509 (813) 470-5020 FAX

DEVELOPER:

FLAGSHIP HARB, LLC 916 HIGHLAND AVENUE ORLANDO, FLORIDA 32803 (407) 246-1144 (407) 246-1155 FAX CONTACT: TED BOLIN

ENGINEER:

BOOTH, ERN, STRAUGHAN & HIOTT, INC. **350 NORTH SINCLAIR AVENUE** TAVARES, FLORIDA-32778 (352) 343-8481 CONTACT: CHARLES HIOTT, P.E

LEGAL DESCRIPTION

NORTH PARCEL A PARCEL OF LAND BEING A PORTION OF "GROVE GARDENS" (PLAT BOOK 17. PAGE 2) AND "HOWIE-IN-THE-HILLS" (AN UNRECORDED PLAT DESCRIBED AS FOLLOWS:

SAID RIGHT OF WAY S17°02'44"E. A DISTANCE OF 300.03 FEET: THENCE DEPART SAID RIGHT OF WAY S72°56'00"W. A DISTANCE OF 149.83 FEET: THENCE S17°02'42"E. A DISTANCE OF 164.96 FEET: THENCE N90°00'00 W. A DISTANCE OF 835.94 FEET TO A POINT ON THE WEST BOUNDARY OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SAID SECTION 35; THENCE ALONG SAID SECTION BOUNDARY NO0°19'41"W, A DISTANCE OF 404.92 FEET; THENCE DEPARTING SAID SECTION BOUNDARY S FEET; THENCE N45°09'29"W, A DISTANCE OF 468.37 FEET; THENCE N00°06'38"W. A DISTANCE OF 331.44 FEET; T

CONSTRUCTION PLANS FOR Venezia North Subdivision Section 35 & 36, Township 22 South, Range 25 East Town of Howey in the Hills, Lake County, Florida

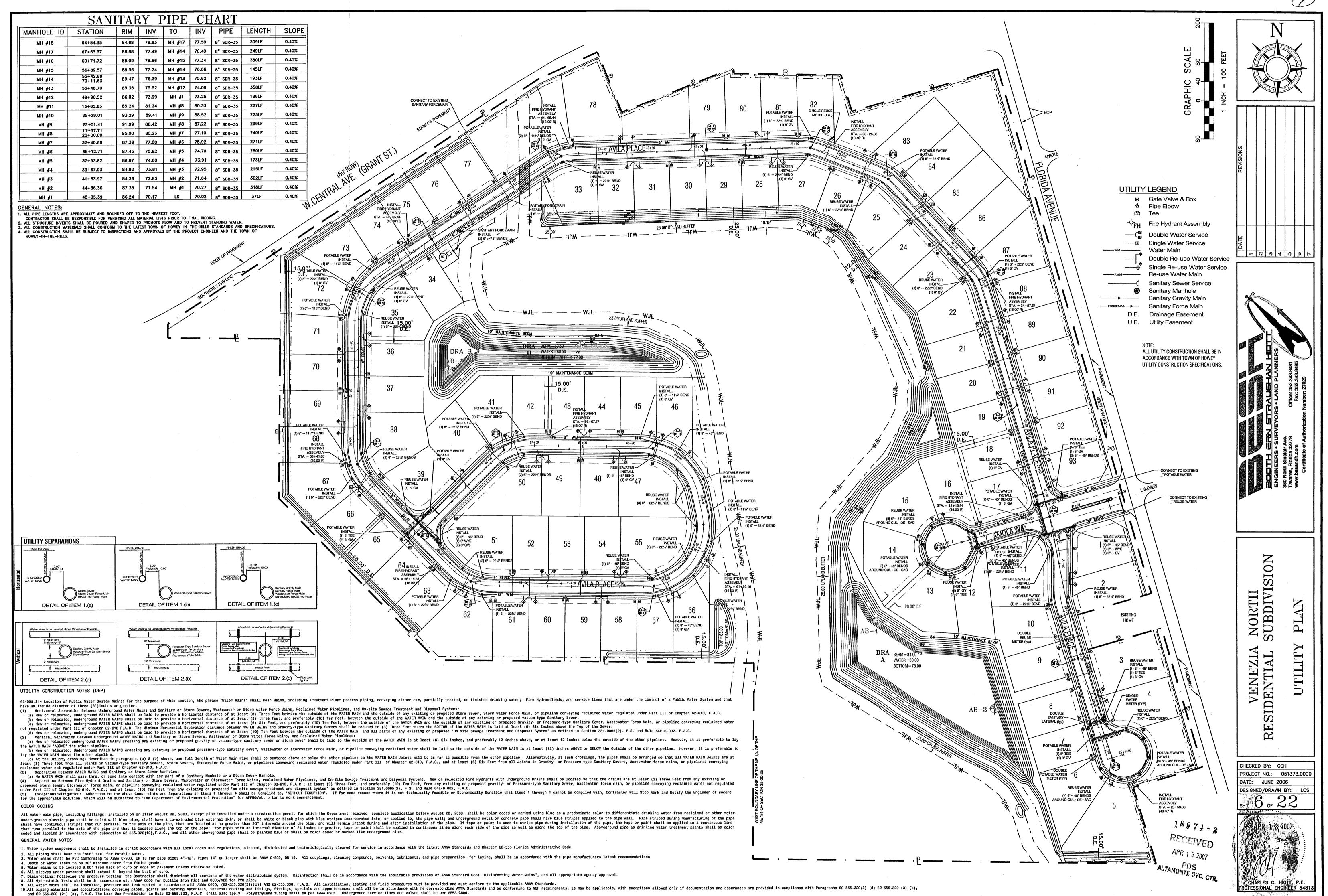


SHEET INDEX

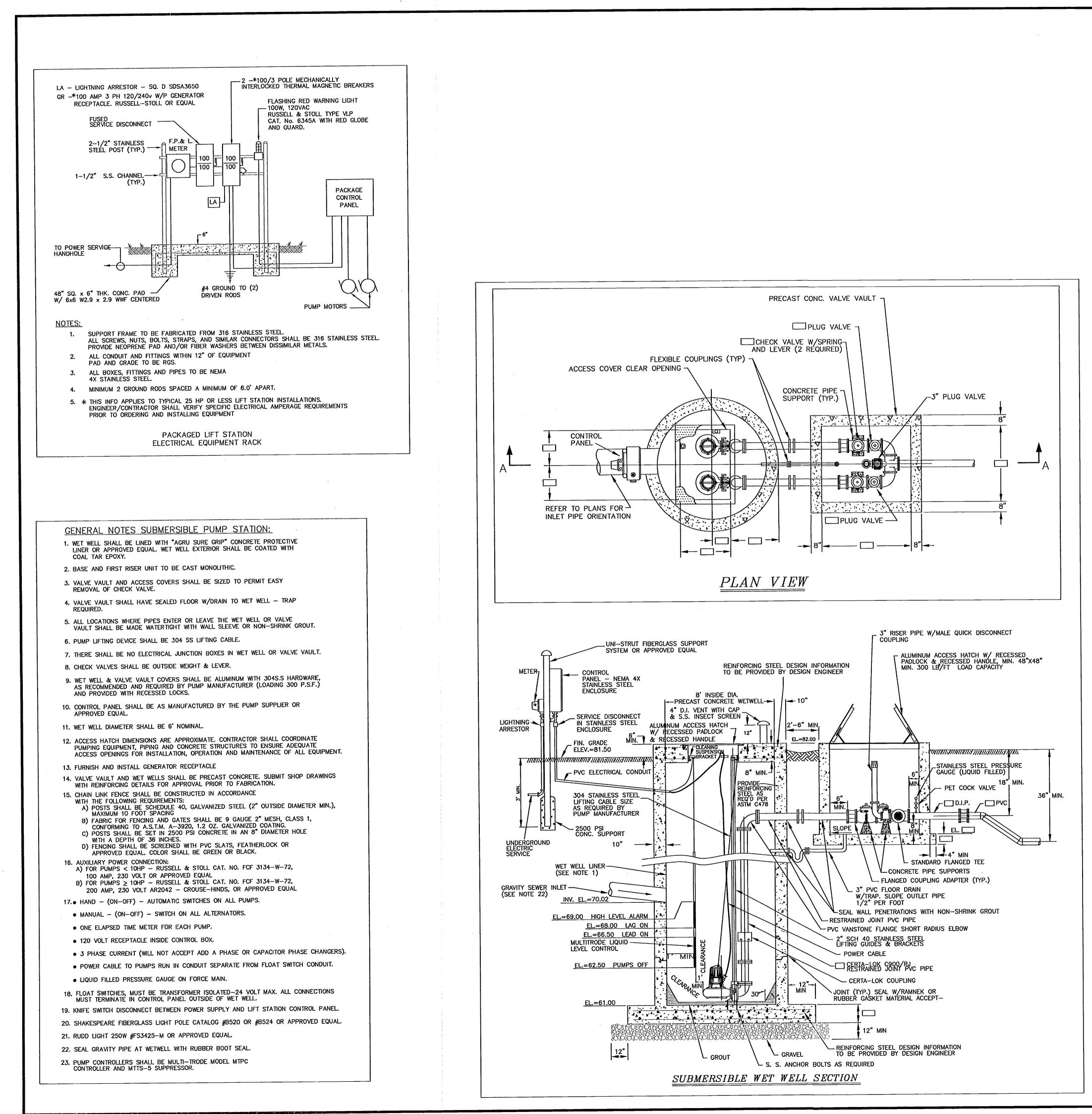
- **Cover Sheet**
- Aerial Overlay 2
- Master Site Plan
- **Boundary & Topographic Survey**
- Land Use Summary 5
- Utility Plan
- **Grading Plan**
- Intersection Details
- Erosion Control/S.W.P.P.P.
- 10. Drainage Plan
- Amola Way Plan & Profile
- Avila Place Cul-de-Sac Plan & Profile 12.
- Avila Place (Sta. 30+00 to 42+50) Plan & Profile
- Avila Place (Sta.42+50 to 56+50) Plan & Profile
- 15. Avila Place (Sta. 56+50 to 70+11.63) Plan & Profile
- 16. Drainage Cross-Sections
- Sanitary Sewer Details 17.
- 18. Lift Station Details
- **Potable Water Details** 19.
- **Reclaimed Water Details** 20.
- 21. Paving & Drainage Details
- 22. **General Project Details**

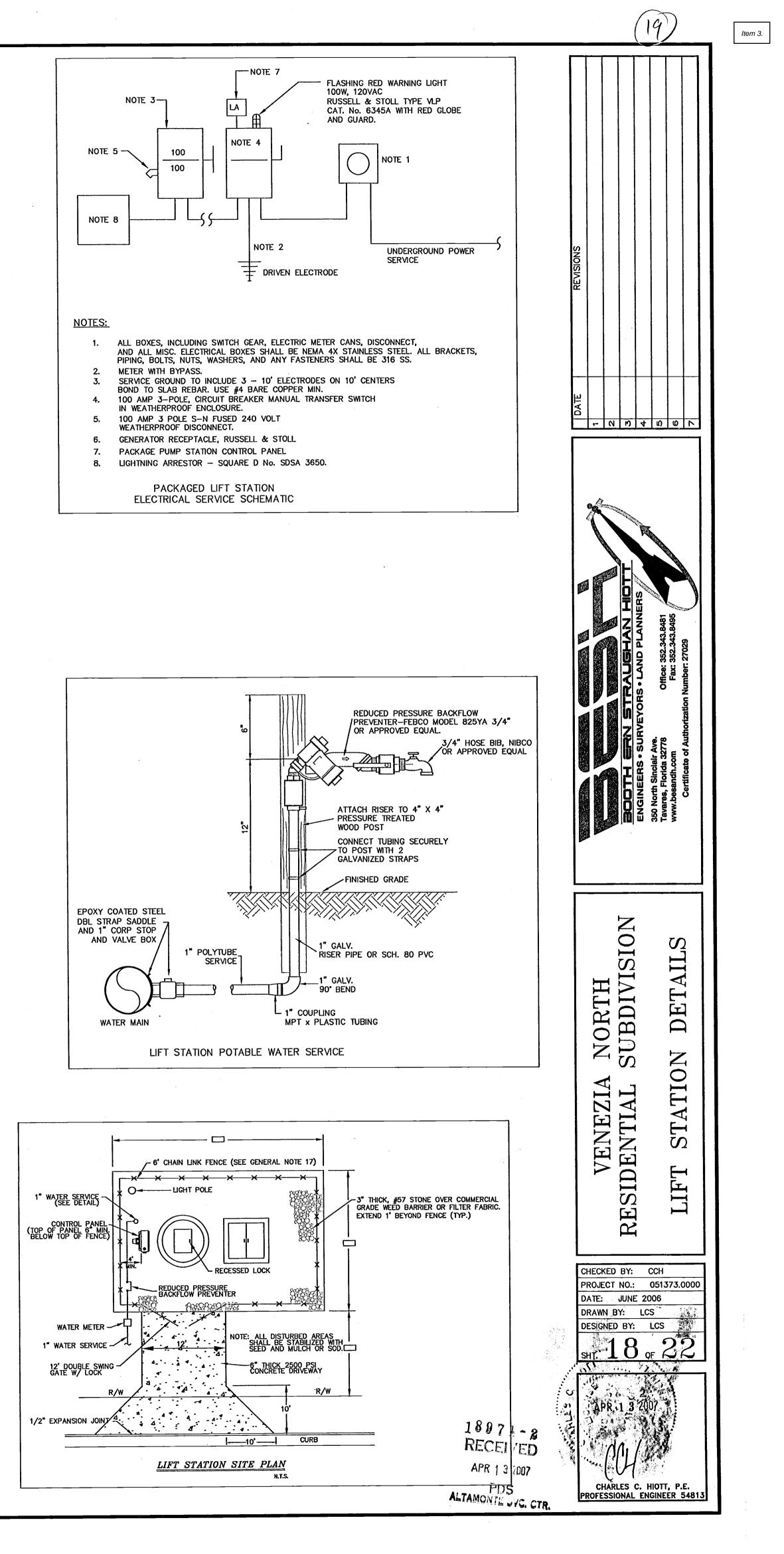
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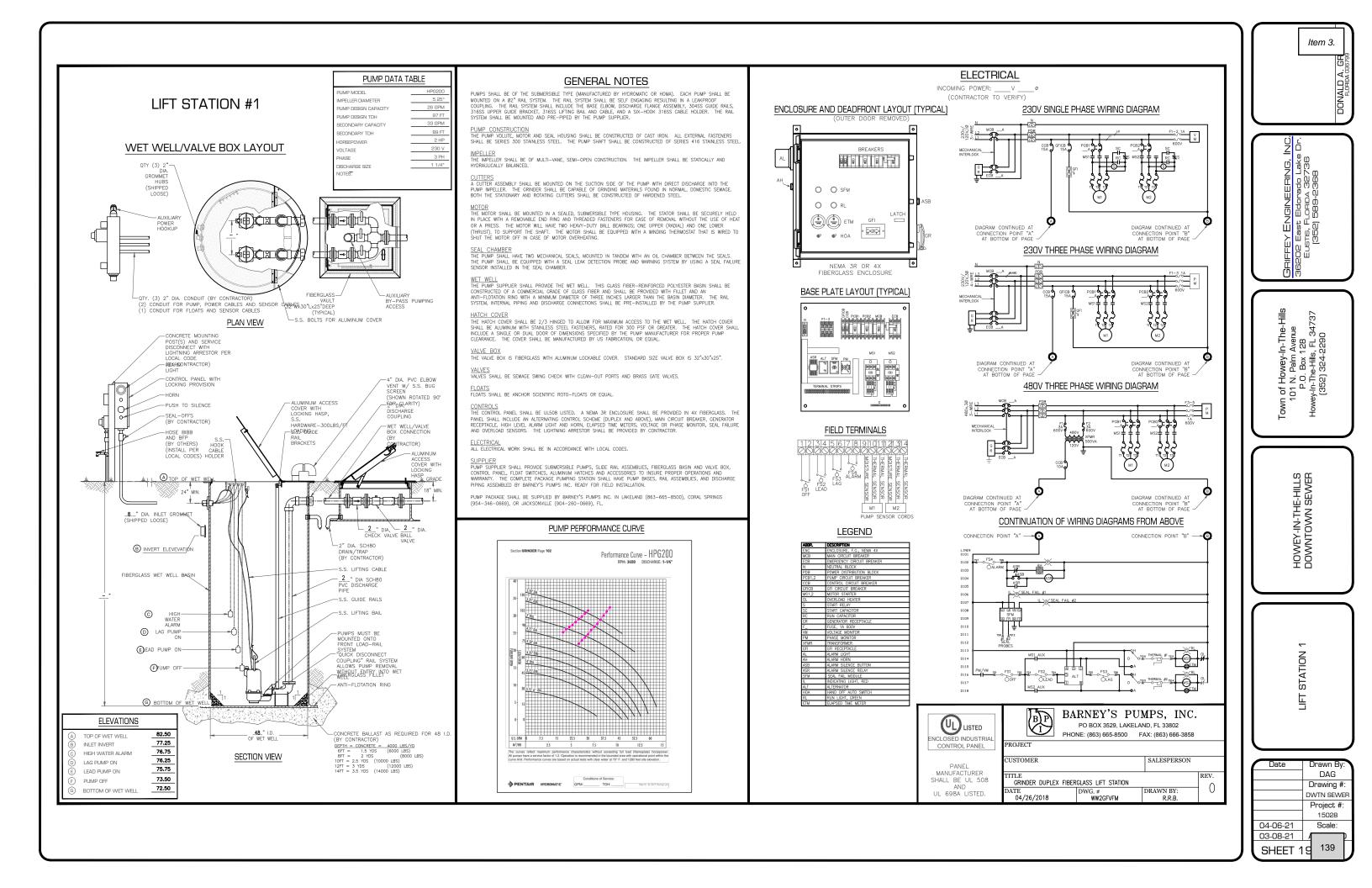
STATE OF FLORIDA CERTIFICATION OF AUTHORIZATION NO. 27029

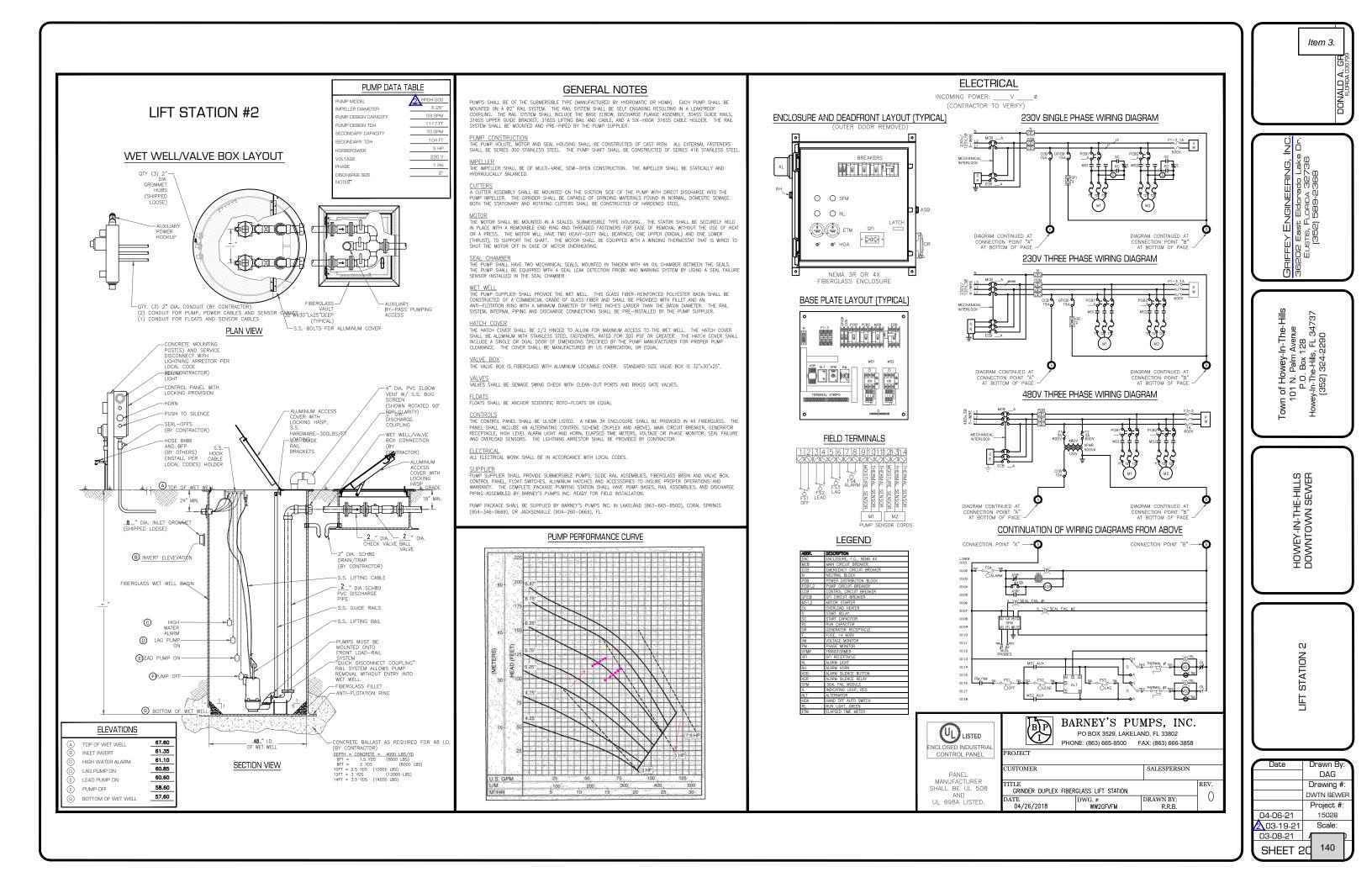


10.All piping materials and specifications covering pipes, joints and packing materials, internal coating and linings, fittings, specials and appurtenances shall all be in accordance with he corresponding AWWA Standards and be conforming to NSF requirements, as may be applicable, with exceptions allowed only if documentation and assurances are provided in compliance with Paragraphs 62-555.320(3) (d) 62-555.320 (3) (b), and 62-555.320 (21) (c), F.A.C. The Lead Use Prohibition in Rule 62-555.322, F.A.C. shall all be per AWWA C901. Underground service lines and valves shall be per AWWA C901. 11.All existing wells on site to be abandoned in accordance with all applicable FDEP and SJRWMD requirements.









TOWN OF HOWEY-IN-THE-HILLS APPLICATION FOR BOARDS/COMMITTEES

Please Print Legibly
Name: ALAN HAYES
Home Mailing Address: Date: 8.16.2
Home Physical Address: Same
Florida Drivers License or ID:
Phone Number: 362 221
Education: <u>A.A. degree and 3 yrs toward</u> B.S. <u>HAYESIN Howey @ gmail.com</u>
Pusings (1) and Star pusard B.S.
Business (Name & Type):
Business Phone
Desition
Training or experience related to activities of boards or committees to which appointment is sought:
EFACYONE VESICLANTER CORE
Professional Organizations: FACE (code enforcement) PSPA. (florida Pool+Spe)
Have you served on a Town Board(s)/Committee(s) in the past?Yes _X_ No
Dates Served:
Please check Board(s)/Committee(s) that interest you.
Cemetery Board
Police Pension Board Police Pension Board Utility Advisory Board
Library Board
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Other advisory
I will attend meetings in accordance with the adopted policion of the T
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3 Wards Triller 400 S. Palm Ave Howey 352, 636 5032
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In completing this application, you are acknowledging that personal information you provide is subject to Florida's Public Records
Policy as stated in Chapter 119, Florida Statutes, and Article I, Section 24 of the State Constitution.
Additional information may be attached to this form.
FOR TOWN HALL USE
Reviewed by Board Date Date
DateDate



Planning & Zoning Board Meeting

September 22, 2022 at 6:00 PM Howey-in the-Hills Town Hall 101 N. Palm Ave., Howey-in-the-Hills, FL 34737

MINUTES

CALL TO ORDER ROLL CALL

BOARD MEMBERS PRESENT

Chair Tina St. Clair | Vice-Chair Ron Francis III | Board Member Frances Wagler | Board Member Richard Mulvany | Board Member Shawn Johnson

STAFF PRESENT

Sean O'Keefe, Town Administrator | John Brock, Town Clerk | Tom Harowski, Town Planner | Jack Pavlik, Building Services Clerk

CONSENT AGENDA

Routine items are placed on the Consent Agenda to expedite the meeting. If Town Council/Staff wish to discuss any item, the procedure is as follows: (1) Pull the item(s) from the Consent Agenda; (2) Vote on the remaining item(s); and (3) Discuss each pulled item and vote.

1. Consideration and Approval of the August 25, 2022, Planning and Zoning Board Meeting minutes.

Motion made by Vice-Chair Francis III to approve of the Consent Agenda; seconded by Board Member Mulvany. Motion approved unanimously by voice vote.

Voting

Yea: Chair St. Clair, Vice-Chair Francis III, Board Member Wagler, Board Member Mulvany, Board Member Johnson

Nay: None

PUBLIC HEARING

2. Consideration and Recommendation: 469 Avila Place Pool Variance

Tina St. Clair, Board Chairperson, asked Tom Harowski, Town Planner, to introduce and explain this item. Mr. Harowski explained and summarized his staff report that he had submitted to the board. Mr. Harowski stated that, to meet the standard for a variance, there was supposed to be something unique about the property, some condition that makes it impossible to meet the code. Mr. Harowski suggested that, if the Planning and Zoning board were to recommend the variance, they should do so conditionally,

with the conditions of requiring any affected trees be moved or replaced to another section of the property and that they cannot change the elevation of the rear 5 feet of the property (which is a drainage easement).

Peter and Janice DeJoseph, applicants and property owners of 469 Avila Place, spoke on their own behalf. Mr. DeJoseph stated that they were under the impression that the rear easement was only 5 feet when they purchased the property. Mr. DeJoseph stated that the pool could not come any closer to the house, and if they are not granted an easement, the width of the pool would only be 5 feet. Mr. DeJoseph also stated that the pool plans call for a small stem wall at the edge of the pool deck.

Tina St. Clair, Board Chairperson, opened Public Comment for this item only.

Peter Tuite, 300 E Croton Way – Mr. Tuite thinks that the lots in Talichet are too small. Mr. Tuite also asked if the pool could be located in the side yard of the property.

Board Chair, Tina St. Clair, closed Public Comment.

Vice-Chair Francis asked the applicant about a cut out area behind the patio which was about 1 foot in size. Vice-Chair Francis then asked the applicant if they were to eliminate that area, could the pool be moved 1 foot closer to the house. Mr. DeJoseph stated that he would check with his pool company.

Motion made by Shawn Johnson to recommend granting the full four feet variance as submitted; there was no second for this motion. Motion failed due to not receiving a second.

Motion made by Vice-Chair Francis to recommend a variance of 3 feet to allow the pool and pool deck to go within 7 feet of the rear property line and also requiring any affected trees to be moved or replaced to another section of the property and requiring the pool deck to have a stem wall to eliminate effects on the rear drainage easement; seconded by Board Member Mulvany. Motion was approved by a roll-call vote.

Voting

Yea: Chair St. Clair, Vice-Chair Francis III, Board Member Mulvany Nay: Board Member Wagler, Board Member Johnson

3. Consideration and Recommendation: Ordinance 2022-019 - Reserve/Hillside Groves Development - PUD Amendment Submission

Tina St. Clair, Board Chairperson, asked Tom Harowski, Town Planner, to introduce and explain this item. Mr. Harowski explained that the amendment to an already approved development would primarily be to the road network. The largest change in the project would be the collector road that runs through the project, from SR 19 to Number Two Rd, and it would change from a four-lane road to a two-lane road.

Appearing for the development team was Rick Welch with Connelly & Wicker (the Civil Engineering team for the project) and Lane Register with Lennar. Mr. Welch stated that, by changing the collector road through the project from a 4-lane to 2-lane road, it would lower the average running speed of people driving through the neighborhood and would be safer.

Town Clerk, John Brock, read out loud a written comment that was submitted to the board. The written comment was from Rhonda Ringer, MD, and she was not in favor of the development.

Tina St. Clair, Board Chairperson, opened Public Comment for this item only.

Marie Gallelli, 1104 N Tangerine Ave – Town Councilor Gallelli asked who determines the speed limit in a development. Town Councilor Gallelli also asked if there would be turning lanes going from the collector road to Number Two Road.

Teresa Pileggi, 1115 N Lakeshore Blvd. – Mrs. Pileggi had questions about how this development would affect the Town's water and wastewater usage.

Peter Tuite, 300 E Croton Way – Mr. Tuite had questions about how this development would affect the Town's Consumptive Use Permit (CUP).

Tim Everline, 1012 N Lakeshore Blvd – Mr. Everline was not in favor of this development.

Gerald Roque, 505 Mission Lane – Mr. Roque wanted the Town to have a laser pointer to use when maps and presentations were utilized.

Daren Surr, 403 E Camelia Way – Mr. Surr was not in favor of this project and 700 more homes coming into the Town.

Board Chair, Tina St. Clair, closed Public Comment.

Motion made by Board Member Mulvany to recommend approval of Ordinance 2022-019 and the Reserve/Hillside Groves PUD Developer's Agreement; seconded by Vice-Chair Francis III. Motion approved unanimously by roll-call vote.

Voting

Yea: Chair St. Clair, Vice-Chair Francis III, Board Member Wagler, Board Member Mulvany, Board Member Johnson Nav: None

OLD BUSINESS

None

NEW BUSINESS

4. Consideration and Recommendation: Howey Self Storage Final Site Plan Submission

Tina St. Clair, Board Chairperson, asked Tom Harowski, Town Planner, to introduce and explain this item. Mr. Harowski explained that the Howey Self Storage project is part of the original Reserve project approved in 2007. Mr. Harowski summarized his staff report that he had submitted to the board and explained the aesthetics of the project.

Randy June, of June Engineering Consultants, spoke on behalf of the application and project.

Tina St. Clair, Board Chairperson, opened Public Comment for this item only.

Marie Gallelli, 1104 N Tangerine Ave – Town Councilor Gallelli asked for a clarification from Mr. Griffey's engineering report.

Seeing no further public comment, Board Chair, Tina St. Clair, closed Public Comment.

Motion made by Board Member Johnson to recommend approval of the Howey Self Storage Final Site Plan Submission; seconded by Board Member Mulvany. Motion approved unanimously by roll-call vote.

Item 4.

Voting

Yea: Chair St. Clair, Vice-Chair Francis III, Board Member Wagler, Board Member Mulvany, Board Member Johnson Nay: None

5. Consideration and Recommendation: Applicants for Planning & Zoning Board

Tina St. Clair, Board Chairperson, asked Planning and Zoning Board Applicant, Allan Hayes, of 111 Island Drive to speak on his own behalf. Mr. Hayes stated that he had lived in the Town since 2003. Mr. Hayes stated that he wanted to be on the board, because he sees that it is the Planning & Zoning Board Members' responsibility to be the stewards for the Town. Mr. Hayes stated that he doesn't think Howey-in-the-Hills needs people like Lennar, Ryan Homes, and other developers. Mr. Hayes stated that he would like to see approval of one acre or maybe half acre lots. Mr. Hayes stated he would like to preserve and protect what was here before he came to the Town.

Tina St. Clair, Board Chairperson, opened Public Comment for this item. There was no public comment and Public Comment was closed.

Motion made by Vice-Chair Francis III to recommend approval of Alan Hayes' application to the Planning and Zoning Board; seconded by Board Member Mulvany. Motion approved unanimously by voice vote.

Voting

Yea: Chair St. Clair, Vice-Chair Francis III, Board Member Wagler, Board Member Mulvany, Board Member Johnson Nay: None

Applicant Ellen Yarckin was not present at the meeting.

Motion made by Chair St. Clair to table the agenda item of Ellen Yarckin's recommendation to the board until the October meeting; seconded by Board Member Mulvany. Motion approved unanimously by voice vote.

PUBLIC COMMENTS

Any person wishing to address the Planning and Zoning Board and who is not on the agenda is asked to speak their name and address. Three (3) minutes is allocated per speaker.

Kathy Lieffort, 900 N Lakeshore Blvd – Mrs. Lieffort had questions about the Town Planner, his job description, and how he was hired.

ADJOURNMENT

There being no further business to discuss, a motion was made by Frances O'Keefe Wagler to adjourn the meeting; Shawn Johnson seconded the motion. Motion was approved unanimously by voice vote.

The Meeting adjourned at 7:40 p.m. | Attendees: 55

ATTEST:

Tina St. Clair Chairperson

John Brock, Town Clerk



Date:October 10, 2022To:Mayor and Town CouncilFrom:Morgan CatesRe:Consideration and Approval: Fencing around Town Lift Stations in Central Park and
Griffin Park

Objective:

To procure estimates for the installation of fences around Lift Station #3 (S. Lakeshore Blvd.) and Lift Station #4 (Town Hall) to provide extra security measures at both Town-owned Lift Stations.

Summary:

The Public Works Director was asked to procure estimates (not to exceed \$2,500.00 per fence) for the installation of fences around the Town-owned Lift Stations #3 and #4. The Public Works Director contacted South Lake Fence Company, an approved vendor that the Public Works Director has used recently for fence repairs.

Recommended Motions:

The Town Council has the following options:

1. The Town Council motions to approve

OR

2. The Town Council motions to approve with the following conditions

OR

3. Motion to Deny

Fiscal Impact:

There is an initial fiscal impact to the Town of \$7,126.00 for both fences, based on the attached estimates from South Lake Fence of Lake County.

Staff Recommendation:

The Public Works Director is satisfied with the current security measures in place at each Lift Stations as they meet the current FDEP regulations. Except for Lift Station #3 (S. Lakeshore Blvd.) which the Public Works Director recommends adding safety barricades or concrete bollards to help prevent damages to the Lift Station from vehicles traveling along S. Lakeshore Blvd.

ESTIMATE

South Lake Fence of Lake County PO Box 560286 Montverde, FL 34756 SouthLakeFence3@gmail.com (407) 785-4900 https://fenceinstallationinClermontFL.com



City Of Howey In The Hills

Bill to City Of Howey In The Hills Estimate details Estimate no. : 1788 Estimate date : 10/7/22

	Product or service		Amount
1.	Pvc privacy Installation of tan privacy 6 foot high tongue and groove with flat caps to surround lift station behir	nd Town building.	\$3,250.00
		Total	\$3,250.00

Note to customer

Thank you for your business.

ESTIMATE

South Lake Fence of Lake County PO Box 560286 Montverde, FL 34756 SouthLakeFence3@gmail.com (407) 785-4900 https://fenceinstallationinClermontFL.com



City Of Howey In The Hills Park

Bill to City Of Howey In The Hills Park Estimate details Estimate no. : 1789 Estimate date : 10/7/22

	Product or service		Amount
1.	Chain-link fence Vinyl coated chain-link fence including one gate, Lift station at Lakeshore		\$3,876.00
		Total	\$3,876.00
	Note to customer		

Thank you for your business.

Sean O'Keefe

From: Sent: To: Subject: Morgan Cates Thursday, October 20, 2022 2:19 PM Sean O'Keefe FW: Town of Howey fence

Sean,

Please see the below email for estimates on the Lift Station Fences from Fence-It Inc.

Thank you,



Morgan Cates Public Works Director Town of Howey-in-the-Hills 101 N. Palm Ave. P.O. Box 128 Howey-in-the-Hills, FL 34737 Town Hall: 352-324-2290 Cell: 352-805-0205 Email: mcates@howey.org

PLEASE NOTE: Florida has a very broad public records law. Most written communications to or from the Town of Howeyin-the-Hills regarding public business are public records available to the public and media upon request. Your e-mail communications may be subject to public disclosure. If you do not want your e-mail address released in response to a public records request, contact this office by phone. If you are NOT the intended recipient, be advised that you have received this e-mail in error and that any use, dissemination, forwarding, printing, or copying of this e-mail is strictly prohibited.

From: Fence-It In Inc <fencegang@msn.com> Sent: Thursday, October 20, 2022 1:47 PM To: Morgan Cates <mcates@howey.org> Subject: Re: Town of Howey fence

Caution: This email originated from outside the organization. DO NOT CLICK links or open attachments unless you recognize the sender and know the content is safe.

Hey Morgan,

If you will look at the email you sent me below, I put the prices on the fences.

Like I said, to give a firm quote we have to visit the site.

Let me know if you have questions.

Linda Clark

Fence-It In, Inc 10045 C.R. 44 Leesburg, FL 34788 (352)315-1952 (352)315-1954 FAX

From: Morgan Cates <<u>mcates@howey.org</u>> Sent: Wednesday, October 19, 2022 3:07 PM To: Fence-It In Inc <<u>fencegang@msn.com</u>> Subject: RE: Town of Howey fence

Linda,

Please see the below addresses, type of fence and dimensions.

Fence #1 **\$2,360**

- Address: 101 N. Palm Ave Howey-in-the-Hills, FL 34737
- Type: 6' Tall PVC Privacy Fence
- Color: Tan
- Dimensions: 12'x12' with 2 6' Tall gates at one end

Fence #2 **\$1,945**

- Address: 110 S. Lakeshore Blvd. Howey-in-the-Hills, FL 34737
- Type: 6' Tall vinyl coated chain-link
- Color: Black
- Dimensions: 12'x12' with 2 6' Tall gates at one end.

Let me know if you have any questions.

Thank you,



Morgan Cates

Public Works Director Town of Howey-in-the-Hills 101 N. Palm Ave. P.O. Box 128 Howey-in-the-Hills, FL 34737 Town Hall: 352-324-2290 Cell: 352-805-0205 Email: mcates@howey.org

PLEASE NOTE: Florida has a very broad public records law. Most written communications to or from the Town of Howeyin-the-Hills regarding public business are public records available to the public and media upon request. Your e-mail communications may be subject to public disclosure. If you do not want your e-mail address released in response to a public records request, contact this office by phone. If you are NOT the intended recipient, be advised that you have received this e-mail in error and that any use, dissemination, forwarding, printing, or copying of this e-mail is strictly prohibited.

From: Fence-It In Inc <<u>fencegang@msn.com</u>>
Sent: Wednesday, October 19, 2022 11:14 AM
To: Morgan Cates <<u>mcates@howey.org</u>>
Subject: Town of Howey fence

Caution: This email originated from outside the organization. DO NOT CLICK links or open attachments unless you recognize the sender and know the content is safe.

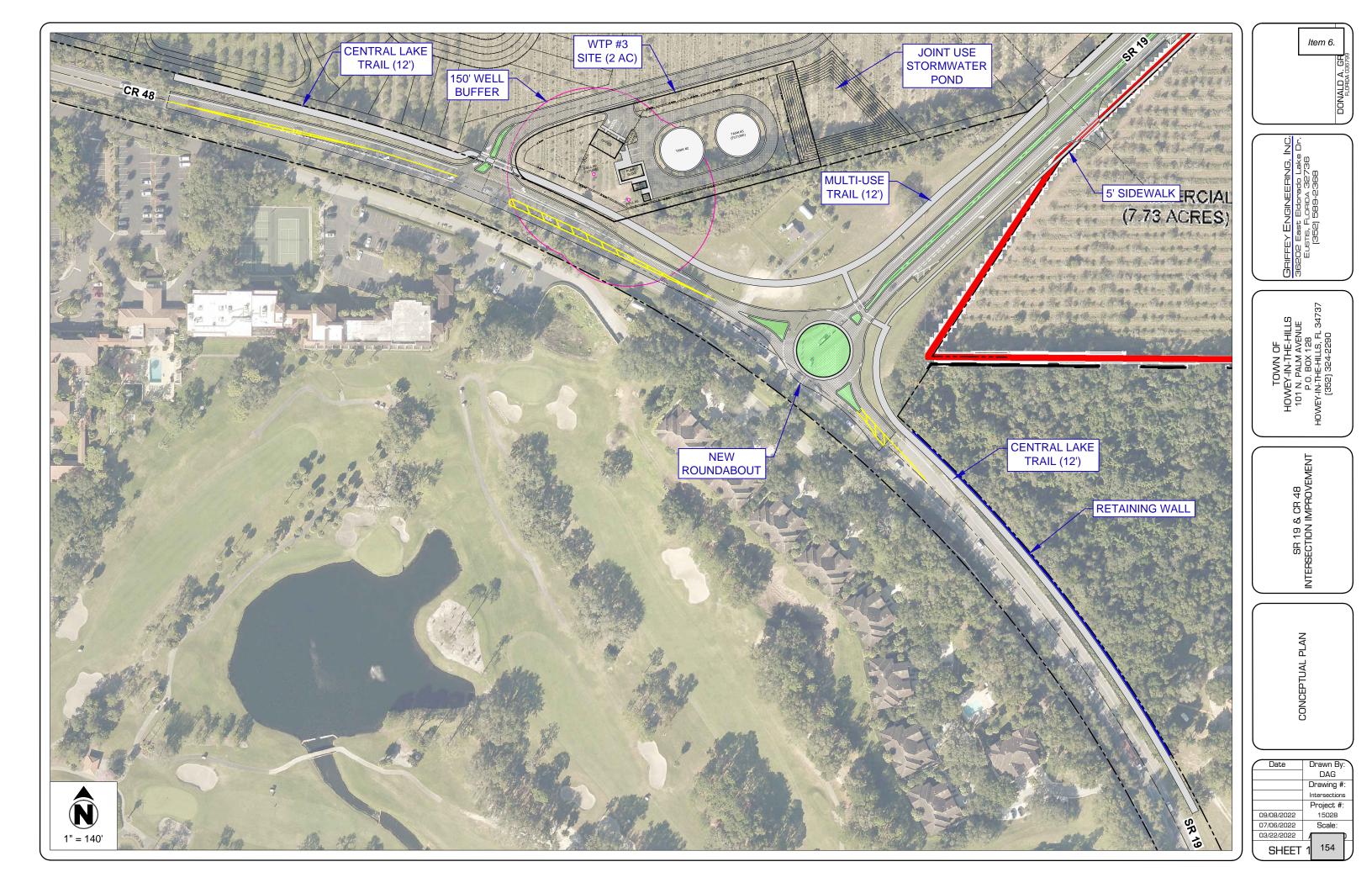
Hey Morgan,

Send the information for the lift station fences and I will get you the ballpark estimate.

Thanks,

Linda Clark

Fence-It In, Inc 10045 C.R. 44 Leesburg, FL 34788 (352)315-1952 (352)315-1954 FAX





Item 7.

ORDINANCE NO. 2022-020

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AN ORDINANCE OF THE TOWN OF HOWEY-IN-THE-HILLS, FLORIDA, PERTAINING TO TOWN COUNCIL; REVISING THE COMPENSATION TO BE PAID TO THE MAYOR. MAYOR PRO TEMPORE AND COUNCILORS UNDER SECTION 42-10 OF THE TOWN'S CODE OF ORDINANCES; PROVIDING FOR SEVERABILITY, CODIFICATION AND AN EFFECTIVE DATE.

Whereas, Subsection 112.313(5) of the Florida Statutes provides that the Town Council members may vote on matters affecting their salary, expenses, or other compensation as a public officer.

Whereas, the Town Council now desires to amend the Town's Code of Ordinances regarding the amount of compensation paid to the Mayor, Mayor Pro Tempore, and Councilors.

BE IT ORDAINED BY THE TOWN COUNCIL OF THE TOWN OF HOWEY-IN-THE-HILLS, FLORIDA:

Section 1. Recitals. The recitals set forth above are true and correct and constitute the legislative findings of the Town Council.

Section 2. Amendments to the Town of Howey-in-the-Hills' Code of Ordinances. Section 42-10 of the Town of Howey-in-the-Hills Code of Ordinances is amended, as shown by the addition of the underlined language and the deletion of the struck-through language, as follows:

Sec. 42-10. - Compensation of the Mayor, Mayor Pro Tempore and Town Council Members.

- A. The Mayor shall receive compensation in the amount of \$500.00\$250.00 per Town Council meeting, workshop, or specially called meeting attended by the Mayor. The Mayor's compensation shall not exceed \$1,000.00 per calendar month.
- B. The Mayor Pro Tempore shall receive compensation in the amount of \$300.00\$125.00 per Town Council meeting, workshop, or specially called meeting attended by the Mayor Pro Tempore. The Mayor Pro Tempore compensation shall not exceed 600.00 per calendar month.
- C. A Town Councilor shall receive compensation in the amount of \$225.00\$100.00 per town council meeting, workshop, or specially called meeting attended by a Town Councilor. A Town Councilor's compensation shall not exceed \$450.00 per calendar month.
- 38 D. The Mayor may be excused from attending a town council meeting, workshop, or specially called 39 meeting without a deduction in compensation. The Mayor must notify the Town Clerk 24 hours 40 prior to the meeting. The Town Clerk shall announce the Mayor's absence at the meeting, and the Town Council shall determine whether the absence will be deemed excused for purposes of this 42 paragraph.
- 43 E. The Mayor Pro Tempore or a Town Councilor may be excused from attending a town council 44 meeting, workshop or specially called meeting without a deduction in compensation. The Mayor 45 Pro Tempore or Town Councilor wishing to be excused from a meeting must notify the Mayor 24 46 hours prior to the meeting, at which time the Mayor shall determine whether the absence will be 47 deemed excused for purposes of this paragraph.

49 Section 3. Severability. The provisions of this ordinance are declared to be severable. If any section, 50 sentence, clause or phrase of this ordinance shall for any reason be held to be invalid or unconstitutional, 51 such decision shall not affect the validity of the remaining sections, sentences, clauses or phrases of this

52 53 54	ordinance, but they shall remain in effect, it beinotwithstanding the invalidity of any part.	ng the legislative intent that this ordinance shall stand
55	Section 4. Codification. The provisions in sec	ction 2 of this ordinance, and of no other sections, shall
56	become and be made a part of the Town's Code	e of Ordinances.
57		
58		es effect on December 1, 2022 or upon its enactment,
59	whichever comes later.	
60		
61		, 2022, by the Town Council of the Town of
62	Howey-in-the-Hills, Florida.	
63		
64		
65		Town of Howey-in-the-Hills, Florida
66 67		By: Town Council
67 68		
68 69		Dyg
70		By: Martha MacFarlane, Mayor
70		Matula Macrallane, Mayor
72		
73		
74	ATTEST:	APPROVED AS TO FORM AND LEGALITY
75		(for the use and reliance of the Town only)
76		(
77		
78		
79	John Brock, Town Clerk	Thomas J. Wilkes, Town Attorney
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81		
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83		
84	First Reading held October 24, 2022	
85	Second Reading, Public Hearing and Adoption	held <u>November 14, 2022</u>
86	Advertised November 4, 2022	
87	#48675548 v2	

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City	Population	Commissioners	Population Per Commissioner	Annual Pay Commissioner	Annual Pay Mayor	Paid Health	Paid Dental	Paid Vision	Retirement Contribution
Clermont	44,600	IJ	8,920	\$6,600	\$7,800	No	No	No	No
Leesburg	28,376	U ·	5,675	\$11,364	\$15,888	Yes	Yes	Yes	Yes
Eustis	23,595	5	4,719	\$5,400	\$6,400	No	S S	No	NO
Groveland	23,000	5	4,600	\$9,180	\$9,180	No	No	No	No
Tavares	18,777	J.	3,755	\$6,965	\$7,965	Yes	Yes	Yes	No
Mount Dora	17,200	7	2,457	\$6,293	\$10,926	No	No	No	No
Lady Lake	16,714	4	4,179	\$8,400	\$9,300	No	No	No	No
Minneola	16,446	S	3,289	\$7,200	\$7,200	No	No	No	No
Fruitland Park	9,175	£	1,835	\$12,000	\$12,000	No	No	No	No
Mascotte	6,600	Ŋ	1,320	\$5,378	\$7,395	No	No	No	No
Umatilla	4,196	S	839	\$4,000	\$6,000	No	No	No	No
Howey-In-the-Hills	1,837	Ŋ	367	\$2,400	\$6,000	No	No	No	No
Montverde	1,700	S	340	\$6,000	\$12,000	No	No	No	No
Municipal Average			3,253	\$7,014	\$9,081				