



Town Council Meeting

January 27, 2025 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/81999864089?pwd=Q7Rvpe7gePutDUKzZxh838iXewWHWL.1>

Meeting ID: 819 9986 4089 | Passcode: 665561

AGENDA

Call the Town Council Meeting to order
Pledge of Allegiance to the Flag
Invocation by Councilor Reneé Lannamañ

ROLL CALL

Acknowledgement of Quorum

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 November 25, 2024, Town Council Meeting.
2. The approval of the minutes and ratification and confirmation of all Town Council actions at the December 09, 2024, Town Council Meeting.
3. The approval of the minutes and ratification and confirmation of all Town Council actions at the January 13, 2025, Town Council Meeting.
4. Consideration and Approval: **Resolution 2025-001 - Rules of Order**

PUBLIC HEARING

5. Discussion: **Community Development Block Grant – Disaster Recovery (CDBG – DR) Application for Funding**

OLD BUSINESS

NEW BUSINESS

- [6.](#) Consideration and Approval: **HALFF 12” Change Order**
- [7.](#) Consideration Approval: **Resolution 2025-002 - Endorsing Mayor Wells Nomination to the FMIT Board of Trustees**

DEPARTMENT REPORTS

8. Town Manager

COUNCIL MEMBER REPORTS

9. Mayor Pro Tem Everline
10. Councilor Arnold
11. Councilor Miles
12. Councilor Lannamañ
13. Mayor Wells

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: **Jan 27, 2025 06:00 PM Eastern Time** (US and Canada)

Join Zoom Meeting

<https://us06web.zoom.us/j/81999864089?pwd=Q7Rvpe7gePutDUKzZxh838iXewWHWL.1>

Meeting ID: 819 9986 4089

Passcode: 665561

Dial by your location

+1 646 558 8656 US (New York)

+1 346 248 7799 US (Houston)

Meeting ID: 819 9986 4089

Passcode: 665561

Find your local number: <https://us06web.zoom.us/u/khGcoybEQ>

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
November 25, 2024, at 6:00 PM
Howey-in the-Hills Town Hall
101 N. Palm Ave.,
Howey-in-the-Hills, FL 34737

MINUTES

Mayor Wells called the Town Council Meeting to order at 6:00 p.m.
Mayor Wells led the attendees in the Pledge of Allegiance to the Flag.
Councilor Reneé Lannamañ delivered an invocation

ROLL CALL

Acknowledgement of Quorum

MEMBERS PRESENT:

Mayor Pro Tem Tim Everline | Councilor Jon Arnold | Councilor Reneé Lannamañ | Councilor David Miles | Mayor Graham Wells

STAFF PRESENT:

Sean O’Keefe, Town Manager | Tom Wilkes, Town Attorney | Rick Thomas, Police Chief | Oscar Ojeda, Finance Supervisor | John Brock, Deputy Town Manager / Town Clerk

AGENDA APPROVAL/REVIEW

Motion made by Councilor Arnold to approve the meeting’s agenda; seconded by Councilor Lannamañ. Motion approved unanimously by voice vote.

Voting

Yea: Councilor Arnold, Mayor Pro Tem Everline, Councilor Lannamañ, Councilor Miles, Mayor Wells

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.

Mayor Pro Tem Everline asked to pull agenda item #1 from the Consent Agenda for discussion.

Councilor Miles asked to pull agenda item #2 from the Consent Agenda for discussion.

1. The approval of the minutes and ratification and confirmation of all Town Council actions at the November 12, 2024, Town Council Meeting.

Mayor Pro Tem Everline stated that he would like to review the audio for the November 12th meeting prior to approving the minutes.

Motion made by Mayor Pro Tem Everline to table the November 12, 2024, Town Council Meeting minutes to the next Town Council meeting for further review; seconded by Councilor Lannamañ. Motion approved unanimously by voice vote.

Voting

Yea: Councilor Arnold, Mayor Pro Tem Everline, Councilor Lannamañ, Councilor Miles, Mayor Wells

Nay: None

2. Consideration and Approval: **Authorization for Mayor Wells to execute approved Ordinance 2015-005**

Councilor Miles asked if the Town staff were aware of any additional previous Ordinances that were not signed. Town Manager, Sean O’Keefe stated that he was not aware of any other Ordinances.

Councilor Miles asked Town Attorney, Tom Wilkes, if the Town should go to former Mayor Sears to ask him to sign the Ordinance. Mr. Wilkes stated that the Town could ask him to sign it or Mayor Wells, but that this should be signed and corrected.

Mayor Pro Tem Everline asked what effect it would have by not signing the Ordinance now. Mr. Wilkes stated that the developer received their approval by the Town Council in 2016; the fact that Mayor Sears did not execute it is a technical issue with paperwork, and it doesn't change anything regarding the approval. Furthermore, Mr. Wilkes stated that there was no way to go back and change that simply because the mayor did not sign it in 2016.

Mayor Wells opened Public Comment for this item only. Seeing no public comment, Mayor Wells closed Public Comment for this item.

Motion made by Councilor Miles to authorize Mayor Wells to execute previously approved Ordinance 2015-005; seconded by Councilor Lannamañ. Motion approved by roll call vote.

Voting

Yea: Councilor Arnold, Councilor Lannamañ, Councilor Miles, Mayor Wells

Nay: Mayor Pro Tem Everline

PUBLIC HEARING

None

OLD BUSINESS

None

NEW BUSINESS

3. Discussion: **Meeting Procedures (Discussion Flow / Making Motions)**

Town Manager, Sean O’Keefe, presented Mayor Wells’ proposed Meeting Procedure changes to improve meeting flow and efficiency based on feedback from the November 12th meeting. Recommendations included incorporating preliminary motions in staff reports to focus discussions on actionable outcomes, revising the discussion flow to follow a three-step process—council discussion,

public comment, and motions/voting—and limiting actions on "discussion only" agenda items to ensure transparency and adherence to agenda intent. These measures aim to streamline meetings without compromising robust dialogue, with council input invited for further refinement.

Councilor Lannamañ stated that she was in favor of the changes.

Mayor Pro Tem Everline stated that he was not in favor of the changes, and he believed that Public Comment should occur before Council discussions. Mayor Pro Tem Everline handed out a set of meeting procedures that he had received from the Town of Orchid, Florida and suggested that the Town Council should consider adopting the Town of Orchid's procedures. Mayor Pro Tem Everline suggested that the public should have as much time as necessary to speak and that the meeting should just go longer and that they could be started earlier.

Councilor Miles stated that he agreed with Mayor Wells' proposed method for doing business.

Mayor Wells opened Public Comment for this item only.

Marie Gallelli, 1104 N. Tangerine Ave. – Mrs. Gallelli stated her primary concern was that public was heard and fairly considered prior to the Town Council voting on issues.

Tom Ballou, 1005 N. Tangerine Ave. – Mr. Ballou stated that he agreed with Mrs. Gallelli and did not like the idea of the public being heard after the Town Councilors had already had their discussion. Mr. Ballou stated that he also thought that the Town Council meeting November 12, 2024, was too long.

Martha MacFarlane, 63 Camino Real – Mrs. MacFarlane stated that Public Comment and Town Council discussion should occur prior to motions being made, due to the fact that too many motions in the past had to be walked back because the item was not fully discussed prior to the motion being made.

Andi Everline, 1012 N Lakeshore Blvd. – Mrs. Everline stated that, if Town Council discusses an item before Public Comment is made, the Town Councilors will have already made up their minds prior to listening to the public.

Ann Griffin, 215 E Laurel Ave. – Mrs. Griffin stated that she believed that the Town Council should listen to what the public says prior to having the Town Council discussion.

Mayor Wells closed Public Comment for this item.

Mayor Wells stated that he would like to try to the meeting procedures for a few meetings and then re-evaluate in February. Mayor Wells asked a for a straw poll from the other Town Councilors to see if there was a consensus. Councilor Lannamañ and Councilor Arnold stated that they agreed with Mayor Wells about the proposed procedures; Mayor Pro Tem Everline and Councilor Miles suggested that the topic should be tabled for further evaluation.

Due to the heavy discussion and strong feelings about the proposal, Mayor Wells withdrew his proposal at this time.

4. Consideration and Approval: **Resolution 2024-011 - Budget Amendment FY24**

Town Manager, Sean O'Keefe, read Resolution 2024-011 out loud by title only:

A RESOLUTION OF THE TOWN OF HOWEY-IN-THE-HILLS, LAKE COUNTY, FLORIDA, AUTHORIZING THE FINAL BUDGET AMENDMENT, AMENDING THE GENERAL FUND AND WATER/SANITATION FUND, FOR THE BUDGET YEAR 2023/2024.

Mr. O'Keefe stated that the final budget amendment was necessary to be completed within 60 days of the end of the fiscal year by statute. Mr. O'Keefe stated that there were two budget amendments in the Resolution. The first was to increase the Special Events budget (listed under 1-574-340 budget line) by \$8,000 and reduce the Parks & Recreation budget (listed under 1-572-460) by \$8,000. This change was due to the Town's Christmas tree being paid out of FY 2024 after it had been ordered in FY 2023.

Mr. O'Keefe stated that the second budget amendment was to increase the Sanitation Department budget (listed under 401-534-340 budget line) by \$24,000 and to reduce the Water Utility Services budget (listed under 401-533-340 budget line) by \$24,000. This change was necessary due to an increase in the number of customers having their trash collected.

Mayor Wells stated that he had worked with Mr. O'Keefe and Finance Supervisor, Oscar Ojeda, to produce the Resolution. Mayor Wells stated that he had also worked with both Mr. O'Keefe and Mr. Ojeda to create a new finance report that would be presented to the Town Council in December.

Councilor Miles thanked Mayor Wells for his assistance to the Town, praising him for the Budget Amendment Resolution being completed correctly.

Mayor Wells opened Public Comment for this item only. Seeing no public comment, Mayor Wells closed Public Comment for this item.

Motion made by Councilor Lannamañ to approve Resolution 2024-011; seconded by Mayor Pro Tem Everline. Motion approved unanimously by roll call vote.

Voting

Yea: Councilor Arnold, Mayor Pro Tem Everline, Councilor Lannamañ, Councilor Miles, Mayor Wells

Nay: None

5. Discussion: **Upcoming Strategic Planning Workshop**

Town Manager, Sean O'Keefe, explained that Councilor Arnold has been championing the upcoming Strategic Planning Workshop, and asked him to speak about the upcoming workshop.

Councilor Arnold stated that the purpose of the upcoming Strategic Planning Workshop (which had been scheduled for December 17, 2024, at 2:00 p.m.) was to identify what the Town Council's ultimate destination was. Councilor Arnold stated that he would like to find out what each Councilor's vision for the future of the Town was and asked everyone to bring their ideas.

Mayor Wells opened Public Comment for this item only. Seeing no public comment, Mayor Wells closed Public Comment for this item.

6. Discussion: **Selection of Date for New Councilor Orientation Workshop**

Town Manager, Sean O'Keefe, stated that the purpose of this workshop was to educate incoming Town Councilors on elements to include: the Town's operational structure, municipal planning principles (like the difference between the Town's Comprehensive Plan and Land Development Code), Sunshine Law, and the basics of municipal finance.

Tuesday, December 10, 2024, from 1:00 p.m. to 5:00 p.m. was selected as the date and time for the Orientation Workshop.

Town Clerk, John Brock, spoke about the Florida League of Cities' (FLC) Institute for Elected Municipal Officials (IEMO) training. Mr. Brock stated that the next available IEMO was in Gainesville

Florida on Friday January 24, 2025, through Saturday January 25, 2025. Mayor Wells, Mayor Pro Tem Everline, and Councilor Arnold all committed to going to this FLC workshop.

DEPARTMENT REPORTS

7. Town Manager

Town Manager, Sean O'Keefe, announced that the public-facing offices of Town Hall and the library would be closed for Thanksgiving on Thursday and Friday, November 28-29, and extended holiday wishes to all. He reminded attendees of the adjusted December Town Council schedule, noting there would be only one meeting on December 9th at the regular time. He also highlighted additional opportunities for collaboration, including upcoming strategic workshops.

O'Keefe provided updates on various projects, including the FDEM/FEMA Bypass Lift Stations Grant for the Venezia subdivision, with paperwork underway for submission to the state office. The Sarah Maude Mason Nature Preserve project has faced delays due to hurricanes but is expected to be completed in December, though it may not be ready before the Christmas Festival's Reindeer Dash. Regarding the Citrus Avenue project, revisions to the surveys have been reviewed and approved by the Town Engineer, with the next step involving discussions with legal counsel to finalize the corrected documents.

COUNCIL MEMBER REPORTS

8. Mayor Pro Tem Everline

Mayor Pro Tem Everline highlighted concerns from residents about a lack of awareness regarding Town Codes. He shared his personal experience moving from an area without such regulations and noted that many residents, both new and long-time, may not fully understand local requirements. Existing informational materials at Town Hall, such as pamphlets on tree regulations and code compliance, are helpful but insufficient in addressing recurring questions about specific issues like tree removal, parking regulations, and the use of canvas tarps.

To address this, Mayor Pro Tem Everline proposed creating a comprehensive, cost-effective code information booklet or pamphlet. He suggested the code enforcement officer compile frequently referenced codes, including commonly misunderstood or enforced regulations, into a single resource. This booklet could be distributed to all households in Howey-in-the-Hills and provided to new residents upon moving in. He emphasized that this would improve awareness, streamline compliance, and provide a clear reference for residents, helping to address complaints effectively.

Mayor Pro Tem Everline also questioned why Town Manager, Sean O'Keefe, had not received an annual evaluation this year and suggested that a date be chosen soon for the Town Council to complete this evaluation. Mayor Wells stated that he would investigate the process and get back with the Town Council.

9. Councilor Arnold

Councilor Arnold announced to those in attendance that the Howey Men's Club would be having a meeting on Tuesday, December 3, 2024, at 6:30 p.m. at the Mission Inn and was attempting to increase its membership.

10. Councilor Miles

Councilor Miles asked about the status of the Stormwater Drainage Project that the Town had received a grant for. Mr. O'Keefe stated that the Town had put the project out for bid with a Request for Bids

(RFB) and had received 5 bids back. Mr. O’Keefe stated that lowest bid that the Town had received was double what the size of the awarded grant. Due to this difference in cost and grant awards, the Town Public Services Director, Morgan Cates, was seeking additional grant funding for this project before it would move forward. Councilor Miles stated that he believed that the Town’s Staff should have brought the five bids before the Town Council, so that they could formally reject them.

11. Councilor Lannamañ

None

12. Mayor Wells

None

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.

Andi Everline, 1012 N. Lakeshore Blvd. – Mrs. Everline stated that she was having a problem with GFL not picking up her regular yard waste.

Martha MacFarlane, 63 Camino Real – Mrs. MacFarlane suggested that the Town utilize its website to communicate information about Code Enforcement within the Town, rather than producing fliers, due to the cost of printing the fliers.

Marie Gallelli, 1104 N. Tangerine Ave. – Mrs. Gallelli had questions about where a resident could find information about the Town’s upcoming Christmas Festival on the Town’s website.

Cathy Coleman, 1004 N. Citrus Ave. – Mrs. Coleman stated that it was very hard to hear the Town Councilors in the back of the room when they did not directly speak into their microphones. Mrs. Coleman also spoke about agenda item #3, Meeting Procedures.

Mayor Wells thanked former Councilor Gallelli for her service as Town Councilor.

ADJOURNMENT

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

The Meeting adjourned at 7:59 p.m. | **Attendees: 27**

Mayor Wells

ATTEST:

John Brock, Town Clerk



Town Council Meeting
December 09, 2024 at 6:00 PM
Howey-in the-Hills Town Hall
101 N. Palm Ave.,
Howey-in-the-Hills, FL 34737

MINUTES

Mayor Wells called the Town Council Meeting to order at 6:00 p.m.
Mayor Wells led the attendees in the Pledge of Allegiance to the Flag.
Councilor Reneé Lannamañ delivered an invocation.

ROLL CALL

Acknowledgement of Quorum

MEMBERS PRESENT:

Mayor Pro Tem Tim Everline | Councilor Jon Arnold | Councilor Reneé Lannamañ (via Zoom) | Councilor David Miles | Mayor Graham Wells

STAFF PRESENT:

Sean O’Keefe, Town Manager | Tom Wilkes, Town Attorney | Sean Parks, Town Planner | Morgan Cates, Public Services Director | Oscar Ojeda, Finance Supervisor | John Brock, Deputy Town Manager / Town Clerk

Motion made by Councilor Arnold to allow Councilor Lannamañ to participate and vote via Zoom; seconded by Mayor Pro Tem Everline.

Voting

Yea: Mayor Pro Tem Everline, Councilor Arnold, Councilor Miles, Mayor Wells

Nay: None

AGENDA APPROVAL/REVIEW

Motion made by Councilor Arnold to approve the meeting’s agenda, while moving agenda item #12 (Finance Supervisor Report) to appear directly after the Consent Agenda; seconded by Councilor Miles. Motion approved unanimously by voice vote.

Voting

Yea: Mayor Pro Tem Everline, Councilor Arnold, Councilor Lannamañ, Councilor Miles, Mayor Wells

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 November 12, 2024, Town Council Meeting.

Motion made by Councilor Miles to approve the Consent Agenda, with Mayor Pro Tem Everline’s and Councilor Miles’ edits to the November 12, 2024, Town Council Meeting minutes being approved; seconded by Mayor Pro Tem Everline. Motion approved unanimously by voice vote.

Voting

Yea: Mayor Pro Tem Everline, Councilor Arnold, Councilor Lannamañ, Councilor Miles, Mayor Wells
Nay: None

DEPARTMENT REPORTS (*Agenda Item #12 to appear in this place if the meeting during the Agenda Approval section of the meeting.*)

12. Finance Supervisor

The Town Council reviewed the new monthly financial report presented by Finance Supervisor, Oscar Ojeda. The report provided an overview of October’s revenues and expenditures, with a detailed breakdown of general and specific funds. Council members expressed appreciation for the improved format, highlighting its clarity compared to previous reports. Suggestions for further enhancements included adding a column for the percentage of the annual budget expended to aid in quick assessment.

Key discussions focused on salary lines appearing over-budget due to a three-payroll month, and a significant expenditure in the water sanitation fund for the redesign of Water Treatment Plant No. 3. The Council acknowledged the challenge of allocating one-time project costs in monthly reports and encouraged continued refinement of the reporting process. The importance of implementing encumbrance accounting for multi-year projects was reiterated, with recognition of its partial use in certain areas like the police department. Mayor Wells and Councilor Miles emphasized that the financial reporting process is a work in progress, with ongoing efforts to ensure accuracy and usability.

PUBLIC HEARING

None

OLD BUSINESS

None

NEW BUSINESS

2. Consideration and Approval: **Lake Hills Utility Service Agreement**

Town Manager, Sean O’Keefe, introduced and explained this agenda item with the assistance of the Town Attorney, Tom Wilkes. Mr. O’Keefe stated that the Utility Service Agreement that was being presented before the Town Council was for potable water and retail wastewater transmission services for the use of the residential portion of the Lake Hills Planned Unit Development (PUD).

Mr. Wilkes stated that the entity with which the Town was contracting was Reader & Partners LLC, who did not currently own the property that the Lake Hills PUD resided on. Mr. Wilkes stated that the Town should only execute this agreement once Reader & Partners LLC completed the purchase of the property.

Councilor Miles stated that, in the second “WHEREAS” of the agreement, the words “up to” needed to be added to appear directly before “571 equivalent residential units”.

The Council extensively discussed the ongoing negotiations with the Central Lake Community Development District (CDD) regarding wastewater treatment capacity. While an existing 2007 agreement ensures the provision of wastewater services, updates to the agreement have been in negotiation for several years to address evolving needs and infrastructure requirements. Council members expressed concern that unresolved issues with the Central Lake CDD could delay or jeopardize developments, including Lake Hills and other approved projects. It was noted that the Central Lake CDD has sufficient capacity for current developments, but they have expressed conditions requiring the updated agreement’s finalization.

To address these concerns, the Council changed the topic of the Town Council Workshop that had been scheduled for December 17, 2024, from Strategic Planning to focus solely on the proposed Central Lake CDD agreement. The importance of achieving a balanced and fair agreement was emphasized, as exclusivity clauses and other terms could limit the Town’s flexibility in pursuing alternative wastewater providers. The Council acknowledged the need to ensure long-term infrastructure planning while maintaining momentum on approved developments. Public and developer input will be considered as part of the ongoing discussions to finalize agreements and support community growth.

Mayor Wells opened Public Comment for this item only.

Martha MacFarlane, 63 Camino Real – Former Mayor, Mrs. MacFarlane, raised several key concerns regarding the Town’s negotiations with the Central Lake CDD. Mrs. MacFarlane emphasized the need to ensure that small entities within the Town, such as the Howey Market and Sunoco, are prioritized for wastewater connections. Mrs. MacFarlane also stressed the importance of retaining the Town’s retail wastewater function, particularly for developments like Bishops Gate, and stressed the importance of protecting the Town’s ISBA agreement.

Mayor Wells closed Public Comment for this item.

Councilor Lannamañ suggested that perhaps Mayor Wells should be involved in the wastewater agreement negotiations with the Central Lake CDD. Mayor Pro Tem Everline and Councilor Miles both disagreed and stated that it should just be the Town Manager and the Town Attorney.

Motion made by Councilor Miles to approve the Lake Hills Utility Service Agreement contingent upon the phrase “up to” being added to appear directly before “571 equivalent residential units” in the second “WHEREAS” of the agreement and that the agreement would only be executed by the Mayor and the Town Clerk when Reader & Partners LLC had purchased the property for the Lake Hills PUD; seconded by Councilor Lannamañ. Motion approved by roll call vote.

Voting

Yea: Councilor Arnold, Councilor Lannamañ, Councilor Miles, Mayor Wells

Nay: Mayor Pro Tem Everline

3. Consideration and Approval: **Whispering Heights Final Subdivision Plan**

Town Manager, Sean O’Keefe, introduced Town Planner, Sean Parks, to explain this agenda item. Mr. Parks presented a staff report recommending approval with six conditions to ensure compliance with applicable codes and regulations. The six conditions that were presented by Mr. Parks were:

1. The plan for sewer is to use a force main to connect the project to the lift station on the school board property. The Town and the School District have worked out the terms of an easement to allow the connection, but the easement still needs to be finalized and recorded.
2. The Central Lake Community Development District has provided the applicant with a letter stating their willingness and ability to serve the project. The applicant still needs to pay the necessary fees to reserve the actual treatment capacity.
3. The applicant will need to provide current permits for stormwater treatment facilities, utility construction, and connection to Buckhill Road.
4. The School District has responded to the Town Planner's inquiry that the concurrency assessment is current and valid for 107 units. When the project size was increased to 156 units, the added units were not vetted for school concurrency. Staff recommends the Planning Board add the update to school concurrency as a condition of approval. The applicant will need to make an application for concurrency review to the School District for the additional units. The application should be filed prior to consideration of the application by Town Council.
5. Buffers- Please ensure the plan set meets the buffer requirements of the Town's Land Development Code (LDC) Sec 7.02.01 in effect at the time of plan submittal:
 - a. There is a note on Sheet L200 but the table on L200 does not call out the required wall and its materials and details.
 - b. The buffer table on Sheet L200 does not appear to accurately describe the location and requirements of proposed buffers. Please verify and revise as necessary.
 - c. Sheets L100-L207 do not provide details of the required wall. Please update the Wall Detail Sheet and these Sheets as applicable so that the Town can ensure consistency with the LDC requirements regarding height (must maintain six feet in height) and whether it has columns that meet the spacing requirements.
 - d. Please provide a separate graphic solely depicting the proposed buffer zones and their landscape requirements. Please note on Sheet L200 the location of the required wall. Additionally, please provide buffer details around proposed common areas and recreation areas.
 - e. The shrubs listed for the buffer on Sheet L100 do not all meet the minimum height requirement of 30 inches. All shrubs shall be at least 30 inches in height upon installation. Please revise plans.
 - f. A buffer detail sheet must be provided so the Town can review and ensure that the trees are not closer than the applicable LDC permits to a walk or wall and that the canopy trees will have root barriers.
 - g. Although not a requirement at the time of submittal, the LDC now requires root barriers. A root barrier is required for trees proposed for 7.5-ft or less from a sidewalk and/or street. It is respectfully requested that the plans incorporate this standard and note on the plans and provide a detail.
6. Wetland Protection - The applicant proposes a swale along the shoreline of Lake Harris. The swales should be vegetated with Florida native ectotonal and/or littoral zone vegetation such as Sand Cordgrass (*Spartina bakerii*) in order to provide both hydrological and ecological function and value in protecting the water resources of Lake Harris (Chapter 3, LDC). Additionally, how does the applicant propose that this swale including the required 50-ft wetland/surface water setback zone shall maintain its function in perpetuity? Chapter 3 of the LDC requires signage and proper maintenance of buffer zones and swales to maintain in perpetuity, the environmental and hydrological function and character.

Council members discussed the proposed conditions, which include engineering approvals, easements, and capacity reservations. Councilor Miles commended the planner's detailed report and inquired about the timeline for construction. Developer representatives indicated that construction would commence promptly following the resolution of remaining conditions, including utility and school concurrency agreements.

Councilor Miles stated that, in addition to the six conditions the Town Planner had presented, he would like to see a condition requiring the lift station fencing to be coated in green or black plastic to enhance aesthetics.

Motion made by Councilor Miles to approve the Whispering Heights Final Subdivision Plan with the six conditions that Town Planner, Sean Parks, had presented and his condition that all lift station fencing be coated in green or black plastic; seconded by Councilor Lannamañ.

Voting

Yea: Councilor Arnold, Councilor Lannamañ, Councilor Miles, Mayor Wells

Nay: Mayor Pro Tem Everline

4. Discussion: **Town Manager Annual Review Process**

The Town Council discussed the annual review process for the Town Manager, as required by the Town Charter. Mayor Pro Tem Everline emphasized the importance of conducting performance reviews annually and aligning them with the Town Manager's contract and salary cycle. Councilor Miles noted that the previous review form was effective and suggested extending the evaluation period to April to allow newer Council members sufficient time to assess the Town Manager's performance.

The Council reached a consensus to conduct the next review in April 2025, with the possibility of deciding at that time whether to adjust the timing for future evaluations. The Town Clerk outlined the evaluation process, which involves distributing review forms to Council members, compiling responses, and holding a public workshop to discuss the results. The Town Manager expressed openness to constructive feedback and confirmed the value of formalized evaluations. The Council agreed to proceed with the April review and revisit the timeline for subsequent evaluations as needed.

DEPARTMENT REPORTS

5. Town Hall

This report was included in the meeting's packet.

6. Police Department

This report was included in the meeting's packet.

7. Code Enforcement

This report was included in the meeting's packet.

8. Public Works

This report was included in the meeting's packet.

9. Library

This report was included in the meeting's packet.

10. Parks & Recreation Advisory Board / Special Events

None

11. Town Attorney

None

12. Finance Supervisor

(This agenda item appeared directly after the Consent Agenda section of the meeting)

13. Town Manager

Town Manager, Sean O'Keefe, reviewed the Town's upcoming events schedule for the next month.

COUNCIL MEMBER REPORTS

14. Mayor Pro Tem Everline

Mayor Pro Tem Everline stated that he believed that the Town's streetlights were owned by Duke Energy and that someone needed to call them to get them cleaned. Mayor Pro Tem Everline also listed several Christmas lights that had been installed on streetlights within the Town that were non-functioning and needed to be fixed.

Mayor Pro Tem Everline explained that he would be attending a Lake-Sumter Metropolitan Planning Organization (MPO) meeting for the Town on Wednesday, December 11, 2025. Mayor Pro Tem Everline questioned why the sidewalks on SR 19 near Venezia were closed and Morgan Cates, Public Services Director, explained that FDOT was managing that process.

Mayor Pro Tem Everline stated that there were palm trees embedded in other trees on Lakeshore and that they should be removed.

15. Councilor Arnold

None

16. Councilor Miles

None

17. Councilor Lannamañ

None

18. Mayor Wells

Mayor Wells stated that many of the bump-outs on Lakeshore Blvd were not being maintained by their sponsors. Public Services Director, Morgan Cates, stated that four bump-out areas had recently been adopted by new people. Mr. Cates also stated that the Sara Maude Mason Boardwalk project was commencing, and he was hopeful that it would be completed by the end of the month. Mr. Cates also stated that the Town's antique fire truck had been delivered to the Lake Tech facility for restoration.

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.

Andi Everline, 1012 N. Lakeshore Blvd. – Mrs. Everline stated that the coyotes around Town were becoming more brazen, and she wanted the Town to do something about them. Councilor Miles suggested that staff should hire a contractor to remove the coyotes.

Marie Gallelli, 1104 Tangerine Ave. – Mrs. Gallelli thanked the Town’s Public Utilities Supervisor, James Southall, for assistance that he had provided.

Martha MacFarlane, 63 Camino Real – Mrs. MacFarlane reminded everyone that the Town would need additional appropriations to construct Water Treatment Plant #3.

Robert Jones, 104 S. Mare Ave. – Mr. Jones stated that he had just moved to the Town, and he was concerned about traffic on SR 19.

ADJOURNMENT

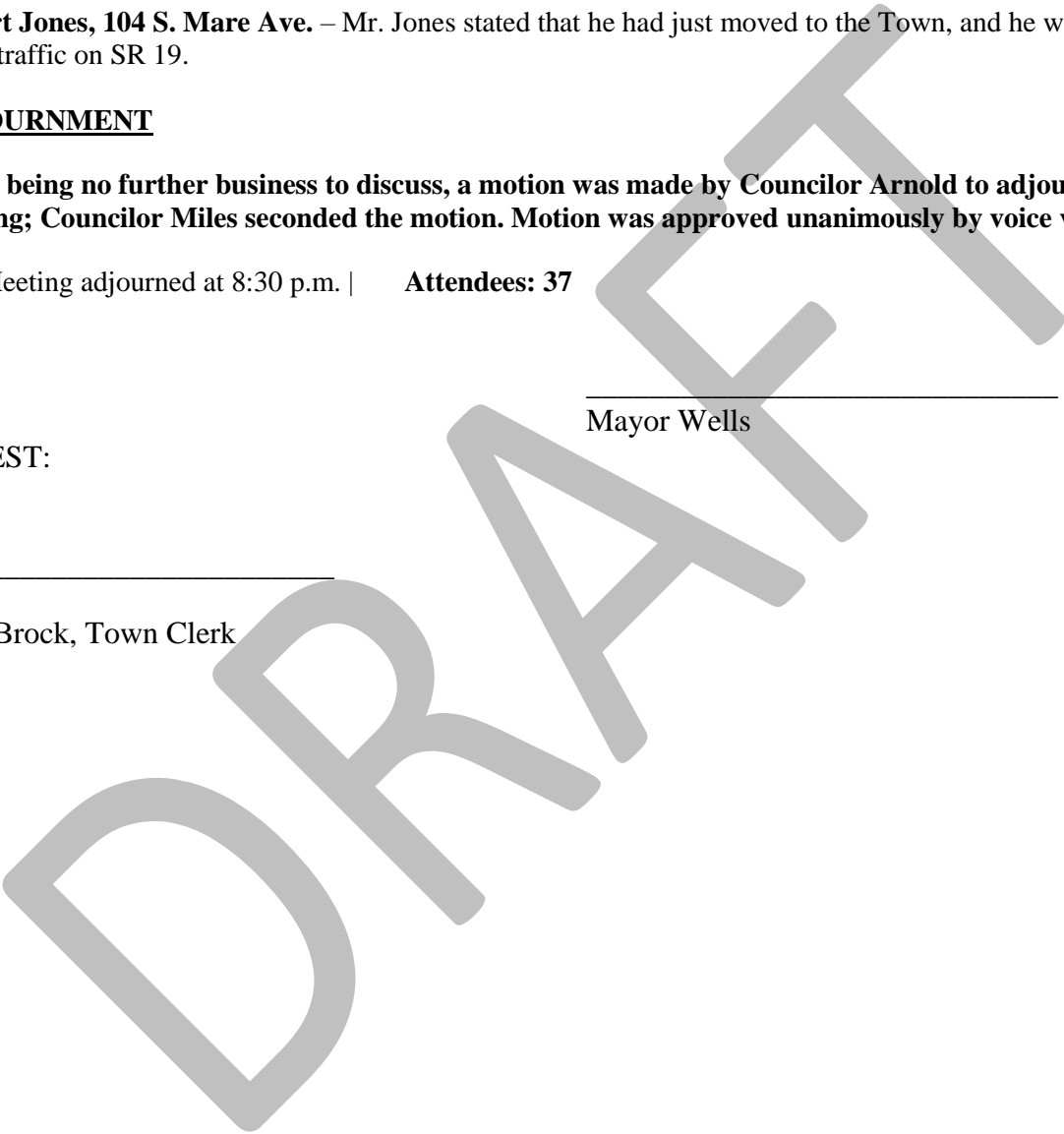
There being no further business to discuss, a motion was made by Councilor Arnold to adjourn the meeting; Councilor Miles seconded the motion. Motion was approved unanimously by voice vote.

The Meeting adjourned at 8:30 p.m. | **Attendees: 37**

Mayor Wells

ATTEST:

John Brock, Town Clerk





Town Council Meeting
January 13, 2025 at 6:00 PM
Howey-in-the-Hills Town Hall
101 N. Palm Ave.,
Howey-in-the-Hills, FL 34737

MINUTES

Mayor Wells called the Town Council Meeting to order at 6:03 p.m.
 Mayor Wells led the attendees in the Pledge of Allegiance to the Flag.
 Councilor Reneé Lannamañ delivered an invocation.

ROLL CALL

Acknowledgement of Quorum

MEMBERS PRESENT:

Mayor Pro Tem Tim Everline | Councilor Jon Arnold | Councilor Reneé Lannamañ | Councilor David Miles | Mayor Graham Wells

STAFF PRESENT:

Sean O'Keefe, Town Manager | Tom Wilkes, Town Attorney | Sean Parks, Town Planner | Morgan Cates, Public Services Director | Amanda Moldan, Library Director | John Brock, Deputy Town Manager / Town Clerk

AGENDA APPROVAL/REVIEW

Motion made by Councilor Arnold to approve the meeting's agenda; seconded by Councilor Lannamañ. Motion approved unanimously by voice vote.

Voting

Yea: Mayor Pro Tem Everline, Councilor Arnold, Councilor Lannamañ, Councilor Miles, Mayor Wells

Nay: None

Mayor Wells introduced the Town's new Library Director, Amanda Moldan, to the Town Council.

The Library Director, Amanda, introduced herself to the Town Council, sharing her extensive background and passion for libraries. With a Master's in Library Science from the University of South Florida and an MBA from the University of West Florida, she emphasized her lifelong dedication to learning, reading, and fostering a love for books, inspired by her own childhood spent in libraries.

Councilor Lannamañ welcomed Library Director Moldan to the Town.

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.

Councilor Miles requested to pull Agenda Item #1 and Agenda Item #5 from the meeting’s Consent Agenda.

1. The approval of the minutes and ratification and confirmation of all Town Council actions at the November 25, 2024, Town Council Meeting. *(This item was pulled for discussion by Councilor Miles.)*

Councilor Miles stated that the Town Council had just been sent these minutes for review the morning of the meeting and that he had barely had time to read them.

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

Voting

Yea: Mayor Pro Tem Everline, Councilor Arnold, Councilor Lannamañ, Councilor Miles, Mayor Wells

Nay: None

2. The approval of the minutes and ratification and confirmation of all Town Council actions at the December 10, 2024 Town Council New Councilor Orientation Workshop.
3. The approval of the minutes and ratification and confirmation of all Town Council actions at the December 17, 2024 Town Council Wastewater Workshop.
4. Consideration and Approval: **FDEM/FEMA Mitigation Grant Funding Contract**
5. Consideration and Approval: **Milestone Audit Assistance Contract Approval** *(This item was pulled for discussion by Councilor Miles.)*

Councilor Miles stated that he would have a problem with approving this item in future years because he believes that the Finance Supervisor should be able to do this without the assistance of Milestone.

Mayor Wells opened Public Comment for this item only.

Martha MacFarlane, 63 Camino Real – Former Mayor, Mrs. MacFarlane, endorsed this vendor, stating that they had a strong skillset.

Mayor Wells closed Public Comment for this item.

Motion made by Councilor Miles to approve the Milestone Audit Assistance Contract; seconded by Councilor Lannamañ. Motion approved unanimously by roll call vote.

Voting

Yea: Mayor Pro Tem Everline, Councilor Arnold, Councilor Lannamañ, Councilor Miles, Mayor Wells

Nay: None

6. Consideration and Approval: **Binney Accounting & Assurance Services - Auditing Agreement**

Motion made by Councilor Miles to approve the Consent Agenda (which consisted of Agenda Items #2, #3, #4, and #6); seconded by Councilor Lannamañ. Motion approved unanimously by roll call vote.

Voting

Yea: Mayor Pro Tem Everline, Councilor Arnold, Councilor Lannamañ, Councilor Miles, Mayor Wells

Nay: None

PUBLIC HEARING

None

OLD BUSINESS

None

NEW BUSINESS

7. Consideration and Approval: **Central Lake CDD Amended and Restated Wastewater Agreement**

Town Manager, Sean O’Keefe, introduced this agenda item. This agreement provides wastewater capacity for 1,600 equivalent residential units (ERUs) to serve approved developments within the Town. Mr. O’Keefe noted that, while the agreement was in its near-final form, minor corrections were needed, including updating four references from 60 days to 90 days regarding acquisition decision timelines. The Town Attorney, Tom Wilkes, emphasized the agreement’s significance, noting that it incorporates extensive feedback from the Council and reflects the outcomes of thorough negotiations. Mr. Wilkes confirmed that the agreement does not grant long-term exclusivity beyond the 1,600 ERUs, which addressed concerns raised by Councilor Lannamañ.

The Council discussed the allocation of ERUs among various developments, including Thompson Grove and planned commercial projects, and clarified the Town’s role in administering reservation and maintenance fees (RAM fees) without assuming financial liability. Questions were raised about the adequacy of capacity for future development and the potential impact of upcoming wastewater studies. Mr. Wilkes assured the Council that the agreement allows flexibility for future decisions based on the findings of these studies.

Amendments to the agreement were also proposed during the meeting. These included updating outdated maps and legal references, filling in undefined unit numbers in Exhibit E, and correcting typographical inconsistencies for clarity and accuracy. Councilor Lannamañ made the motion to approve the agreement with the proposed amendments, which was seconded by Councilor Miles.

Mayor Wells opened Public Comment for this item only.

Eric Gunesch, 448 Avila Pl. – Mr. Gunesch had questions about the Right of First Refusal agreement and the Town’s ISBA area.

Martha MacFarlane, 63 Camino Real – Mrs. MacFarlane had questions related to the three annual raises in rates the Central Lake CDD was approved to make.

Mayor Wells closed Public Comment for this item.

Mayor Wells asked Mr. O’Keefe to restate all the contingencies or changes that the Council had discussed that would need to happen before approval of the agreement.

Mr. O’Keefe stated that there were five changes that needed to be made (the first four to the Central Lake CDD Amended and Restated Wholesale Wastewater Treatment Agreement and the final change to the Right of First Refusal Agreement). Mr. O’Keefe stated that the first change was that there were four references to 60 days, primarily in section 13.2 of the Central Lake CDD agreement, that should have been 90 days. Mr. O’Keefe stated that the second change would need to be in (page 10) section 3.4, (c), (i), in which uppercase letters A, B, and C were used when they should have been lowercase letters. Mr. O’Keefe stated that the third change to the agreement would be that Exhibit B (Map of Howey 180 Utility Service Area) would need to be update to a newer map. Mr. O’Keefe stated that the fourth item that would need to be changed was that approved development numbers would need to be added into Exhibit E. Mr. O’Keefe stated that the fifth and final change was that the map in Exhibit A of the Right of First Refusal Agreement, needed to be added (as it was missing).

Motion made by Councilor Lannamañ to approve the Central Lake CDD Amended and Restated Wholesale Wastewater Treatment Agreement and the Right of First Refusal Agreement (with Sewer & Water Plant Investment, LLC) with the five changes that Mr. O’Keefe had just restated; seconded by Councilor Miles. Motion approved by roll call vote.

Voting

Yea: Councilor Arnold, Councilor Lannamañ, Councilor Miles, Mayor Wells

Nay: Mayor Pro Tem Everline

Mayor Pro Tem Everline stated that he voted no because he would have preferred to have waited for the completion of the Clean Water Study that Woodard and Curran was doing for the Town.

8. Consideration and Approval: **Resolution 2025-001 - Rules of Order**

The Town Council discussed Resolution 2025-001, proposing new Rules of Order for conducting Council meetings. Town Manager, Sean O’Keefe, outlined the legal framework for adopting these rules, referencing the Town Charter and Code, which allow the Council to determine its own procedures. The draft document was reviewed by the Town Manager, Town Clerk, Town Attorney, and the Mayor to tailor it to Howey-in-the-Hills’ specific needs.

Council members debated various provisions, including a guideline for completing meetings within two and a half hours. Some members expressed concerns about mandating this timeframe and suggested using the term "endeavor" to allow flexibility. Discussions also addressed quorum protocols, rules for public comment placement, and the use of electronic media for council member participation, emphasizing fairness and practicality.

The timeline for agenda and packet preparation was reviewed, with agreement that the agenda and packet should be published by Thursday, with no changes to the agenda allowed after Friday at 5 p.m., except by supermajority vote. This provision aims to ensure transparency while allowing for urgent, last-minute items to be added.

Audio recordings of meetings were another key topic. While state law recommends retaining recordings for two years, some council members suggested extending this to five or even ten years for historical and legal purposes. The Town Attorney supported this idea, highlighting the potential value of recordings as part of the Town's history.

The Council also discussed clarifying the process for placing items on the agenda. It was agreed that, while the Town Manager has initial discretion, Council members can appeal decisions to the full Council for final determination. Additionally, a provision for waiving rules by a supermajority was proposed to address urgent or unforeseen circumstances.

After deliberation, the Council agreed to table the resolution to incorporate suggested revisions. The updated document will be presented at the next Council meeting for approval.

Mayor Wells opened Public Comment for this item only.

Eric Gunesch, 448 Avila Pl. – Mr. Gunesch was in favor of the proposed rules.

Tom Ballou, 1005 N. Tangerine Ave. – Mr. Ballou stated that he wanted to make sure the remote Town Councilors attending future meetings electronically would be allowed to vote.

Motion made by Mayor Pro Tem Everline to table this item to the next Town Council meeting, directing the Town Staff to make the various changes that were discussed; seconded by Councilor Arnold. Motion approved unanimously by voice vote.

Voting

Yea: Mayor Pro Tem Everline, Councilor Arnold, Councilor Lannamañ, Councilor Miles, Mayor Wells
Nay: None

9. Discussion: **Library Director and the Charter**

The Town Council discussed the classification and hiring process for the Library Director in light of the Town Charter. This item was introduced by Mayor Pro Tem Everline, who raised concerns about whether the Library Director qualifies as a "Town officer" under the charter. He noted that the charter states each department and office must be administered by an executive officer, and since the library is defined as a department, he questioned why the Library Director is excluded from this designation and from requiring council confirmation.

Mayor Wells and Town Manager, Sean O’Keefe, explained the charter’s intent, clarifying that only specific positions—such as the Town Clerk, Police Chief, and Public Services Director—are defined as executive officers. They also addressed that the term "director" is a standard title within the library profession but does not confer executive officer status. Councilor Miles suggested that the Town Council have input on hiring department heads reporting directly to the Town Manager, but staff noted potential complications, including delays in the hiring process and candidate privacy concerns.

After extensive discussion, the Council acknowledged the need for procedural clarity and agreed to consider amendments to the charter or ordinances if necessary. The discussion concluded without any formal action.

Mayor Wells opened Public Comment for this item only.

Lynne Husemann, 671 Avila Pl. – Mrs. Husemann was upset that the Town Council was attacking the staff again and not trusting the staff. Mrs. Husemann was opposed to the micromanagement of administrative decision. Mrs. Husemann stated that the attack on the Town Manager’s family was disgusting.

DEPARTMENT REPORTS

10. Town Hall

This report was included in the meeting's packet.

11. Police Department

This report was included in the meeting's packet.

12. Code Enforcement

None

13. Public Works

This report was included in the meeting's packet.

14. Library

This report was included in the meeting's packet.

15. Parks & Recreation Advisory Board / Special Events

None

16. Town Attorney

None

17. Finance Supervisor

This report was included in the meeting's packet.

18. Town Manager

Town Manager, Sean O'Keefe, stated that there would be a public hearing to allow for public participation in the grant process for a CDBG-DR grant that the Town was submitting.

Mr. O'Keefe reminded the Council of the federal holiday on January 20th and that Town Hall and the Library would close for the holiday.

A date and time was selected for a Town Council Workshop on the Capital Improvement Plan (CIP). The Workshop would be on Tuesday, January 28, 2025, from 2pm to 5pm. Councilor Miles stated that he wanted Public Services Director, Morgan Cates, to submit a revised 5-year road improvement plan at the CIP workshop for the Town Council to review.

COUNCIL MEMBER REPORTS

19. Mayor Pro Tem Everline

Mayor Pro Tem Everline provided an update from the Lake-Sumter Metropolitan Planning Organization (MPO) meeting, sharing key transportation projects and their potential impact on Howey-in-the-Hills. He noted that in 2026, SR-19 resurfacing is scheduled from Lakeview Drive through the Town, making the only planned improvement for the area within the next 20 years. He also discussed the MPO's long-range transportation plan, which spans 25 years, and the List of Priority Projects for the next five years. These plans allow for adjustments to address urgent needs.

During the MPO meeting, discussions also focused on traffic safety, including a statewide "Zero Fatalities" initiative aimed at reducing highway fatalities. Everline highlighted concerns raised by Groveland officials about traffic hazards near the Amazon and Kroger distribution centers. A "Groveland-Howey Developmental Survey" will study traffic from Route 50 in Groveland to 561, stopping at 455, due to Howey-in-the-Hills' policy against four-lane roads through the Town. Mayor Pro Tem Everline reported that state representatives expressed interest in a three-lane option to mitigate traffic congestion.

Mayor Pro Tem Everline also shared updates on Turnpike construction, with completion dates for segments near Howey projected between 2026 and 2028. Additionally, discussions with the Florida Department of Transportation (FDOT) included the potential for a pedestrian crossing signal at Central Avenue to coincide with the 2026 resurfacing project.

The conversation shifted to fire station planning. Town Manager, Sean O'Keefe, recounted Lake County's analysis of potential fire station locations, noting that the current site on Number Two Road is no longer considered viable by the County. The County's preference is for a site near the Mission Inn entrance, which would optimize emergency response times, but lacks available land. Mayor Pro Tem Everline mentioned conflicting reports about the County's reasoning for withdrawing from the Number Two Road site and suggested further discussions to clarify the matter. Mr. O'Keefe agreed to follow up with County officials for more information.

20. Councilor Arnold

Councilor Arnold expanded on the Lake-Sumter Metropolitan Planning Organization (MPO) update, emphasizing the importance of proactively advocating for projects to secure prioritization. While the MPO operates with long-term planning in mind, Councilor Arnold highlighted that projects can move up the priority list with strategic efforts, including Council action and effective advocacy.

Councilor Arnold shared insights from a discussion with T.J. Fish, City of Groveland's Director of Transportation and Public Works, who suggested that the Town could advance a pedestrian crossing project by reframing it as a safety issue rather than a traffic or infrastructure issue. Passing a Council resolution to designate the crossing as a safety improvement could expedite its placement on the MPO's priority list, as safety projects receive heightened attention through state programs. Councilor Arnold committed to gathering specific resolution requirements from Mr. Fish and proposed that the council take steps to draft and approve the resolution at a future meeting. Councilor Arnold underscored the potential benefits for residents who rely on safe pedestrian crossings.

21. Councilor Miles

Councilor Miles asked about the status of the possible transfer of the Talichet Lift Station to Town property. Mr. O'Keefe asked resident Joshua Husemann to speak about the Talichet Lift Station situation.

Resident Joshua Husemann addressed the Town Council regarding a proposed solution to bring the HOA-managed lift station up to Town standards and potentially transfer ownership to the Town. Mr. Husemann emphasized the challenges faced by the HOA in funding the required upgrades, which include compliance with current codes, integration with the SCADA system, and the addition of a diesel backup pump to prevent overflow incidents. He noted that the HOA cannot apply for federal grants, a capability the Town could leverage if it assumes ownership.

Mr. Husemann proposed spreading the costs over a five-year special assessment facilitated by the Town, which would ease the financial burden on residents. He highlighted that the HOA's direct funding approach would require an immediate payment of \$2,000–\$3,000 per household, a significant hardship for many. The five-year assessment would provide a more manageable annual payment.

Mr. Husemann also stressed the urgency of addressing the lift station's vulnerabilities, citing a near-overflow incident that could have resulted in environmental damage and federal involvement. Mr. Husemann reiterated the HOA's willingness to cooperate with the Town, including securing the necessary 76 homeowner votes for approval, provided the financial impact is mitigated through the proposed assessment plan.

22. Councilor Lannamañ

Councilor Lannamañ raised significant concerns about the Town's waste management service provider, GFL, citing numerous issues, including damage to roads in the Venezia neighborhood, diesel spills, delayed or skipped pickups, and broken-down trucks left on-site for extended periods. She also criticized the additional \$20 charge for bulk item pickups despite an overall increase in service fees. Councilor Miles suggested documenting these issues thoroughly to ensure accountability and to address potential disputes about responsibility for damages.

The Council discussed the possibility of revisiting the waste management contract when it is due for renewal. Town Manager, Sean O'Keefe, confirmed he would review the contract terms to determine if service failures could constitute cause for renegotiation or termination. Council members also recommended specifying smaller truck sizes in future contracts to minimize road damage. Concerns

were echoed about GFL’s performance in other areas of the Town, including trash spills and delayed service.

Additionally, Councilor Lannamañ highlighted visibility issues with the street sign at the intersection of Venezia Boulevard and State Road 19, labeling it a hazard. Public Services is already investigating solutions to address this problem.

23. Mayor Wells

Mayor Wells asked the Town Councilors to look in their email account and review an email that the Town Clerk had forwarded the Council about the Lake County League of Cities Strategic Plan.

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.

Eric Gunesch, 448 Avila Pl. – Mr. Gunesch urged the Town Council to review the GFL contract and thanked the Town Council for their hard work.

Andi Everline, 1012 N. Lakeshore Blvd. – Mrs. Everline stated that she did not believe that the playground equipment in Griffin Park was safe. Mrs. Everline stated that she did not think the playground equipment was ADA compliant and that the swings were slanting. Mrs. Everline also stated that was no playground equipment at Griffin Park for young children. Mrs. Everline also stated that the renovated pier on Lakeshore was not ADA compliant and needed to have a ramp to be compliant.

Banks Helfrich, 9100 Sams Lake Rd, Clermont FL – Mr. Helfrich spoke about the theme of “We the People”.

ADJOURNMENT

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

The Meeting adjourned at 8:41 p.m. | **Attendees: 35**

Mayor Wells

ATTEST:

John Brock, Town Clerk



Town Council Meeting
January 13, 2025 at 6:00 PM
Howey-in-the-Hills Town Hall
101 N. Palm Ave.,
Howey-in-the-Hills, FL 34737

MINUTES

Mayor Wells called the Town Council Meeting to order at 6:03 p.m.
 Mayor Wells led the attendees in the Pledge of Allegiance to the Flag.
 Councilor Reneé Lannamañ delivered an invocation.

ROLL CALL

Acknowledgement of Quorum

MEMBERS PRESENT:

Mayor Pro Tem Tim Everline | Councilor Jon Arnold | Councilor Reneé Lannamañ | Councilor David Miles | Mayor Graham Wells

STAFF PRESENT:

Sean O’Keefe, Town Manager | Tom Wilkes, Town Attorney | Sean Parks, Town Planner | Morgan Cates, Public Services Director | Amanda Moldan, Library Director | John Brock, Deputy Town Manager / Town Clerk

AGENDA APPROVAL/REVIEW

Motion made by Councilor Arnold to approve the meeting’s agenda; seconded by Councilor Lannamañ. Motion approved unanimously by voice vote.

Voting

Yea: Mayor Pro Tem Everline, Councilor Arnold, Councilor Lannamañ, Councilor Miles, Mayor Wells

Nay: None

Mayor Wells introduced the Town’s new Library Director, Amanda Moldan, to the Town Council.

Councilor Lannamañ welcomed Library Director Moldan to the Town.

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.

Councilor Miles requested to pull Agenda Item #1 and Agenda Item #5 from the meeting’s Consent Agenda.

1. The approval of the minutes and ratification and confirmation of all Town Council actions at the November 25, 2024, Town Council Meeting. *(This item was pulled for discussion by Councilor Miles.)*

Councilor Miles stated that the Town Council had just been sent these minutes for review the morning of the meeting and that he had barely had time to read them.

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

Voting

Yea: Mayor Pro Tem Everline, Councilor Arnold, Councilor Lannamañ, Councilor Miles, Mayor Wells

Nay: None

2. The approval of the minutes and ratification and confirmation of all Town Council actions at the December 10, 2024 Town Council New Councilor Orientation Workshop.
3. The approval of the minutes and ratification and confirmation of all Town Council actions at the December 17, 2024 Town Council Wastewater Workshop.
4. Consideration and Approval: **FDEM/FEMA Mitigation Grant Funding Contract**
5. Consideration and Approval: **Milestone Audit Assistance Contract Approval** (*This item was pulled for discussion by Councilor Miles.*)

Councilor Miles stated that he would have a problem with approving this item in future years because he believes that the Finance Supervisor should be able to do this without the assistance of Milestone.

Mayor Wells opened Public Comment for this item only.

Martha MacFarlane, 63 Camino Real – Former Mayor, Mrs. MacFarlane, endorsed this vendor, stating that they had a strong skillset.

Mayor Wells closed Public Comment for this item.

Motion made by Councilor Miles to approve the Milestone Audit Assistance Contract; seconded by Councilor Lannamañ. Motion approved unanimously by roll call vote.

Voting

Yea: Mayor Pro Tem Everline, Councilor Arnold, Councilor Lannamañ, Councilor Miles, Mayor Wells

Nay: None

6. Consideration and Approval: **Binney Accounting & Assurance Services - Auditing Agreement**

Motion made by Councilor Miles to approve the Consent Agenda (which consisted of Agenda Items #2, #3, #4, and #6); seconded by Councilor Lannamañ. Motion approved unanimously by roll call vote.

Voting

Yea: Mayor Pro Tem Everline, Councilor Arnold, Councilor Lannamañ, Councilor Miles, Mayor Wells

Nay: None

PUBLIC HEARING

None

OLD BUSINESS

None

NEW BUSINESS**7. Consideration and Approval: Central Lake CDD Amended and Restated Wastewater Agreement**

Town Manager, Sean O’Keefe, introduced this agenda item. This agreement provides wastewater capacity for 1,600 equivalent residential units (ERUs) to serve approved developments within the Town. Mr. O’Keefe noted that, while the agreement was in its near-final form, minor corrections were needed, including updating four references from 60 days to 90 days regarding acquisition decision timelines. The Town Attorney, Tom Wilkes, emphasized the agreement’s significance, noting that it incorporates extensive feedback from the Council and reflects the outcomes of thorough negotiations. Mr. Wilkes confirmed that the agreement does not grant long-term exclusivity beyond the 1,600 ERUs, which addressed concerns raised by Councilor Lannamañ.

The Council discussed the allocation of ERUs among various developments, including Thompson Grove and planned commercial projects, and clarified the Town’s role in administering reservation and maintenance fees (RAM fees) without assuming financial liability. Questions were raised about the adequacy of capacity for future development and the potential impact of upcoming wastewater studies. Mr. Wilkes assured the Council that the agreement allows flexibility for future decisions based on the findings of these studies.

Amendments to the agreement were also proposed during the meeting. These included updating outdated maps and legal references, filling in undefined unit numbers in Exhibit E, and correcting typographical inconsistencies for clarity and accuracy. Councilor Lannamañ made the motion to approve the agreement with the proposed amendments, which was seconded by Councilor Miles.

Mayor Wells opened Public Comment for this item only.

Eric Gunesch, 448 Avila Pl. – Mr. Gunesch had questions about the Right of First Refusal agreement and the Town’s ISBA area.

Martha MacFarlane, 63 Camino Real – Mrs. MacFarlane had questions related to the three annual raises in rates the Central Lake CDD was approved to make.

Mayor Wells closed Public Comment for this item.

Mayor Wells asked Mr. O’Keefe to restate all the contingencies or changes that the Council had discussed that would need to happen before approval of the agreement.

Mr. O’Keefe stated that there were five changes that needed to be made (the first four to the Central Lake CDD Amended and Restated Wholesale Wastewater Treatment Agreement and the final change to the Right of First Refusal Agreement). Mr. O’Keefe stated that the first change was that there were four references to 60 days, primarily in section 13.2 of the Central Lake CDD agreement, that should have been 90 days. Mr. O’Keefe stated that the second change would need to be in (page 10) section 3.4, (c), (i), in which uppercase letters A, B, and C were used when they should have been lowercase letters. Mr. O’Keefe stated that the third change to the agreement would be that Exhibit B (Map of Howey 180 Utility Service Area) would need to be update to a newer map. Mr. O’Keefe stated that the fourth item that would need to be changed was that approved development numbers would need to be added into Exhibit E. Mr. O’Keefe stated that the fifth and final change was that the map in Exhibit A of the Right of First Refusal Agreement, needed to be added (as it was missing).

Motion made by Councilor Lannamañ to approve the Central Lake CDD Amended and Restated Wholesale Wastewater Treatment Agreement and the Right of First Refusal Agreement (with Sewer & Water Plant Investment, LLC) with the five changes that Mr. O’Keefe had just restated; seconded by Councilor Miles. Motion approved by roll call vote.

Voting**Yea:** Councilor Arnold, Councilor Lannamañ, Councilor Miles, Mayor Wells**Nay:** Mayor Pro Tem Everline

Mayor Pro Tem Everline stated that he voted no because he would have preferred to have waited for the completion of the Clean Water Study that Woodard and Curran was doing for the Town.

8. Consideration and Approval: **Resolution 2025-001 - Rules of Order**

The Town Council discussed Resolution 2025-001, proposing new Rules of Order for conducting Council meetings. Town Manager, Sean O'Keefe, outlined the legal framework for adopting these rules, referencing the Town Charter and Code, which allow the Council to determine its own procedures. The draft document was reviewed by the Town Manager, Town Clerk, Town Attorney, and the Mayor to tailor it to Howey-in-the-Hills' specific needs.

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After deliberation, the Council agreed to table the resolution to incorporate suggested revisions. The updated document will be presented at the next Council meeting for approval.

Mayor Wells opened Public Comment for this item only.

Eric Gunesch, 448 Avila Pl. – Mr. Gunesch was in favor of the proposed rules.

Tom Ballou, 1005 N. Tangerine Ave. – Mr. Ballou stated that he wanted to make sure the remote Town Councilors attending future meetings electronically would be allowed to vote.

Motion made by Mayor Pro Tem Everline to table this item to the next Town Council meeting, directing the Town Staff to make the various changes that were discussed; seconded by Councilor Arnold. Motion approved unanimously by voice vote.

Voting**Yea:** Mayor Pro Tem Everline, Councilor Arnold, Councilor Lannamañ, Councilor Miles, Mayor Wells**Nay:** None

9. Discussion: **Library Director and the Charter**

The Town Council discussed the classification and hiring process for the Library Director in light of the Town Charter. This item was introduced by Mayor Pro Tem Everline, who raised concerns about whether the Library Director qualifies as a "Town officer" under the charter. He noted that the charter states each department and office must be administered by an executive officer, and since the library is defined as a department, he questioned why the Library Director is excluded from this designation and from requiring council confirmation.

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After extensive discussion, the Council acknowledged the need for procedural clarity and agreed to consider amendments to the charter or ordinances if necessary. The discussion concluded without any formal action.

Mayor Wells opened Public Comment for this item only.

Lynne Husemann, 671 Avila Pl. – Mrs. Husemann was upset that the Town Council was attacking the staff again and not trusting the staff. Mrs. Husemann was opposed to the micromanagement of administrative decision. Mrs. Husemann stated that the attack on the Town Manager's family was disgusting.

DEPARTMENT REPORTS

10. Town Hall

This report was included in the meeting's packet.

11. Police Department

This report was included in the meeting's packet.

12. Code Enforcement

None

13. Public Works

This report was included in the meeting's packet.

14. Library

This report was included in the meeting's packet.

15. Parks & Recreation Advisory Board / Special Events

None

16. Town Attorney

None

17. Finance Supervisor

This report was included in the meeting's packet.

18. Town Manager

Town Manager, Sean O'Keefe, stated that there would be a public hearing to allow for public participation in the grant process for a CDBG-DR grant that the Town was submitting.

Mr. O'Keefe reminded the Council of the federal holiday on January 20th and that Town Hall and the Library would close for the holiday.

A date and time was selected for a Town Council Workshop on the Capital Improvement Plan (CIP). The Workshop would be on Tuesday, January 28, 2025, from 2pm to 5pm. Councilor Miles stated that he wanted Public Services Director, Morgan Cates, to submit a revised 5-year road improvement plan at the CIP workshop for the Town Council to review.

COUNCIL MEMBER REPORTS

19. Mayor Pro Tem Everline

Mayor Pro Tem Everline provided an update from the Lake-Sumter Metropolitan Planning Organization (MPO) meeting, sharing key transportation projects and their potential impact on Howey-in-the-Hills. He noted that in 2026, SR-19 resurfacing is scheduled from Lakeview Drive through the Town, making the only planned improvement for the area within the next 20 years. He also discussed the MPO's long-range transportation plan, which spans 25 years, and the List of Priority Projects for the next five years. These plans allow for adjustments to address urgent needs.

During the MPO meeting, discussions also focused on traffic safety, including a statewide "Zero Fatalities" initiative aimed at reducing highway fatalities. Everline highlighted concerns raised by Groveland officials about traffic hazards near the Amazon and Kroger distribution centers. A "Groveland-Howey Developmental Survey" will study traffic from Route 50 in Groveland to 561, stopping at 455, due to Howey-in-the-Hills' policy against four-lane roads through the Town. Mayor Pro Tem Everline reported that state representatives expressed interest in a three-lane option to mitigate traffic congestion.

Mayor Pro Tem Everline also shared updates on Turnpike construction, with completion dates for segments near Howey projected between 2026 and 2028. Additionally, discussions with the Florida Department of Transportation (FDOT) included the potential for a pedestrian crossing signal at Central Avenue to coincide with the 2026 resurfacing project.

The conversation shifted to fire station planning. Town Manager, Sean O'Keefe, recounted Lake County's analysis of potential fire station locations, noting that the current site on Number Two Road is no longer considered viable by the County. The County's preference is for a site near the Mission Inn entrance, which would optimize emergency response times, but lacks available land. Mayor Pro Tem Everline mentioned conflicting reports about the County's reasoning for withdrawing from the Number Two Road site and suggested further discussions to clarify the matter. Mr. O'Keefe agreed to follow up with County officials for more information.

20. Councilor Arnold

Councilor Arnold expanded on the Lake-Sumter Metropolitan Planning Organization (MPO) update, emphasizing the importance of proactively advocating for projects to secure prioritization. While the

MPO operates with long-term planning in mind, Councilor Arnold highlighted that projects can move up the priority list with strategic efforts, including Council action and effective advocacy.

Councilor Arnold shared insights from a discussion with T.J. Fish, City of Groveland's Director of Transportation and Public Works, who suggested that the Town could advance a pedestrian crossing project by reframing it as a safety issue rather than a traffic or infrastructure issue. Passing a Council resolution to designate the crossing as a safety improvement could expedite its placement on the MPO's priority list, as safety projects receive heightened attention through state programs. Councilor Arnold committed to gathering specific resolution requirements from Mr. Fish and proposed that the council take steps to draft and approve the resolution at a future meeting. Councilor Arnold underscored the potential benefits for residents who rely on safe pedestrian crossings.

21. Councilor Miles

Councilor Miles asked about the status of the possible transfer of the Talichet Lift Station to Town property. Mr. O'Keefe asked resident Joshua Husemann to speak about the Talichet Lift Station situation.

Resident Joshua Husemann addressed the Town Council regarding a proposed solution to bring the HOA-managed lift station up to Town standards and potentially transfer ownership to the Town. Mr. Husemann emphasized the challenges faced by the HOA in funding the required upgrades, which include compliance with current codes, integration with the SCADA system, and the addition of a diesel backup pump to prevent overflow incidents. He noted that the HOA cannot apply for federal grants, a capability the Town could leverage if it assumes ownership.

Mr. Husemann proposed spreading the costs over a five-year special assessment facilitated by the Town, which would ease the financial burden on residents. He highlighted that the HOA's direct funding approach would require an immediate payment of \$2,000–\$3,000 per household, a significant hardship for many. The five-year assessment would provide a more manageable annual payment.

Mr. Husemann also stressed the urgency of addressing the lift station's vulnerabilities, citing a near-overflow incident that could have resulted in environmental damage and federal involvement. Mr. Husemann reiterated the HOA's willingness to cooperate with the Town, including securing the necessary 76 homeowner votes for approval, provided the financial impact is mitigated through the proposed assessment plan.

22. Councilor Lannamañ

Councilor Lannamañ raised significant concerns about the Town's waste management service provider, GFL, citing numerous issues, including damage to roads in the Venezia neighborhood, diesel spills, delayed or skipped pickups, and broken-down trucks left on-site for extended periods. She also criticized the additional \$20 charge for bulk item pickups despite an overall increase in service fees. Councilor Miles suggested documenting these issues thoroughly to ensure accountability and to address potential disputes about responsibility for damages.

The Council discussed the possibility of revisiting the waste management contract when it is due for renewal. Town Manager, Sean O'Keefe, confirmed he would review the contract terms to determine if service failures could constitute cause for renegotiation or termination. Council members also recommended specifying smaller truck sizes in future contracts to minimize road damage. Concerns were echoed about GFL's performance in other areas of the Town, including trash spills and delayed service.

Additionally, Councilor Lannamañ highlighted visibility issues with the street sign at the intersection of Venezia Boulevard and State Road 19, labeling it a hazard. Public Services is already investigating solutions to address this problem.

23. Mayor Wells

Mayor Wells asked the Town Councilors to look in their email account and review an email that the Town Clerk had forwarded the Council about the Lake County League of Cities Strategic Plan.

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.

Eric Gunesch, 448 Avila Pl. – Mr. Gunesch urged the Town Council to review the GFL contract and thanked the Town Council for their hard work.

Andi Everline, 1012 N. Lakeshore Blvd. – Mrs. Everline stated that she did not believe that the playground equipment in Griffin Park was safe. Mrs. Everline stated that she did not think the playground equipment was ADA compliant and that the swings were slanting. Mrs. Everline also stated that there was no playground equipment at Griffin Park for young children. Mrs. Everline also stated that the renovated pier on Lakeshore was not ADA compliant and needed to have a ramp to be compliant.

Banks Helfrich, 9100 Sams Lake Rd, Clermont FL – Mr. Helfrich spoke about the theme of “We the People”.

ADJOURNMENT

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

The Meeting adjourned at 8:41 p.m. | **Attendees: 35**

Mayor Wells

ATTEST:

John Brock, Town Clerk



Date: January 27, 2025

To: Mayor and Town Council

From: Sean O’Keefe, Town Manager

Re: Consideration and Approval: **Resolution 2025-001 - Rules of Order**

Objective:

To consider and approve **Resolution 2025-001**, adopting the updated **Howey-in-the-Hills Town Council Rules of Order** to govern the conduct of Town Council meetings and related activities.

Summary:

The proposed Rules of Order are designed to streamline Town Council meetings, promote transparency, and enhance procedural clarity. Per Sec. 4(b) of Town Code, “The Council shall determine its own rules and order of business. Roberts Rule of Order may be applicable,” and again in Sec. 42-5, “The Town Council shall make such bylaws and rules of order for its guidance and government as it deems expedient.” These rules here proposed have been revised to reflect current parliamentary practices and the specific operational needs of the Town. **Resolution 2025-001** formalizes these rules as the governing procedural framework for all Council meetings.

Key highlights of the proposed Rules of Order include:

1. Meeting Structure and Procedures:
 - Regular meetings will occur on the second and fourth Mondays of each month.
 - Meeting duration is capped at two and a half hours unless extended by majority vote.
2. Public Input and Decorum:
 - Public comments are encouraged, with a standard three-minute limit per speaker.
 - Decorum rules ensure orderly participation from both Council members and the public.
3. Motion-Making and Voting:
 - Clear guidelines for motion-making, ensuring all Council members have the opportunity to participate in discussion before a motion is made.
 - Roll-call votes are required for significant decisions, such as ordinances, resolutions, and financial and contractual matters.
4. Use of Technology:
 - Provisions for Council participation via electronic media under extraordinary circumstances, ensuring accessibility while maintaining quorum requirements.

Fiscal Impact:

There is no fiscal impact associated with the adoption of the updated Rules of Order.

Staff Recommendation:

Staff recommends approval of **Resolution 2025-001**, with the changes proposed from the previous council meeting.

RESOLUTION 2025-001

A RESOLUTION OF THE TOWN COUNCIL OF THE TOWN OF HOWEY-IN-THE-HILLS, FLORIDA, ADOPTING THE HOWEY-IN-THE-HILLS TOWN COUNCIL RULES OF ORDER; PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, the Town Council of the Town of Howey-in-the-Hills is authorized under Section 166.021, Florida Statutes, and the Town Charter to adopt policies and procedures for the efficient governance of its meetings and official actions; and

WHEREAS, the Town Council recognizes the need to establish updated and consistent rules of procedure to govern its meetings and related activities in order to promote transparency, efficiency, and fairness; and

WHEREAS, the "Howey-in-the-Hills Town Council Rules of Order," as attached hereto as Exhibit "A," have been reviewed and revised to reflect the most recent parliamentary practices and the operational needs of the Town Council; and

WHEREAS, the Town Council desires to formally adopt these rules as its governing procedural framework.

NOW, THEREFORE, BE IT RESOLVED BY THE TOWN COUNCIL OF THE TOWN OF HOWEY-IN-THE-HILLS, FLORIDA, AS FOLLOWS:

Section 1. ADOPTION.

The Town Council hereby adopts the "Howey-in-the-Hills Town Council Rules of Order," attached hereto as Exhibit "A" and incorporated herein by reference, as the official procedural rules governing all Town Council meetings and related activities.

Section 2. REPEAL OF CONFLICTING POLICIES.

All prior resolutions, policies, or procedures of the Town Council that conflict with the adopted "Howey-in-the-Hills Town Council Rules of Order" are hereby repealed to the extent of such conflict.

Section 3. SEVERABILITY.

If any provision of this Resolution or the attached Rules of Order shall be declared invalid by a court of competent jurisdiction, such invalidity shall not affect the remaining provisions, which shall remain in full force and effect.

Section 4. EFFECTIVE DATE.

This Resolution shall take effect immediately upon its adoption.

PASSED AND ADOPTED by the Town Council of the Town of Howey-in-the-Hills, Florida, this 27th day of January, 2025.

**TOWN OF HOWEY-IN-THE-HILLS,
FLORIDA**

By: its Town Council

By: _____
Graham Wells, Mayor

Attest:

John Brock, Town Clerk

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

Tom Wilkes, Town Attorney

Councilor Jon Arnold	_____yea	_____nay
Councilor Reneé Lannamañ	_____yea	_____nay
Councilor David Miles	_____yea	_____nay
Mayor Pro-Tem Tim Everline	_____yea	_____nay
Mayor Graham Wells	_____yea	_____nay

HOWEY IN THE HILLS TOWN COUNCIL RULES OF ORDER

1. Meetings

- a) The Town Council is empowered to determine the policies necessary for the effective operation and general improvement of the town.
- b) The council shall meet regularly on the second and fourth Monday of each month at such times and places as the Council may prescribe. By ordinance, the council may change from time to time the days of the month when regular meetings are to be held.
- c) Any meeting falling upon a legal holiday or other date on which a majority of the Council is not able to attend will be rescheduled.
- d) The Town Manager is responsible for determining and preparing the agenda for each meeting of Town Council.
- e) The Town Clerk is responsible for proper noticing of the meetings, and preparing the respective ordinances, resolutions, and reports for each meeting.
- f) The Town Council will endeavor to complete regular meetings within two and a half hours. In the event a meeting approaches two and a half hours in length, the Mayor will request if the Council would like to extend the meeting, schedule a special meeting, or table the remaining agenda items until the next scheduled meeting. This will then be decided by a majority vote from the Council.
- g) The parliamentary authority governing the Town Council will be the most recent edition of Robert's Rules of Order, Newly Revised in Brief, except as otherwise provided by these rules of order.

2. Special Meetings

- a) Special meetings shall be held on the call of either the Town Manager or a majority of the council, when called in writing, with written notice to the Mayor and Town Council members no less than 72 hours before the meeting (except in cases of extreme emergency) setting forth the date, time, place and purpose of the special meeting; the Town Clerk shall be responsible for noticing the meetings. No business other than the purpose specified in the call shall be transacted during the special meeting unless approved by a unanimous vote of all councilors present.
- b) Additionally, the Council, by majority vote, may call for a special meeting at any duly noticed meeting. The Council will specify the date, time and place of the special meeting and the business to be conducted.
- c) The Town Manager will be responsible for the agenda and packet to be delivered to each individual Council Member at least forty-eight (48) hours prior to the meeting.

3. Emergency Meetings

An emergency meeting may be called by the Town Manager providing such notice has been provided to the members of the Council and the Town Clerk and public notice is given as practical under the circumstances. An emergency necessitating such a meeting is a perceived immediate threat to the public health, safety, or welfare of the community and as otherwise defined by Florida law.

4. Workshops

- a) Workshops may be scheduled by the Town Manager, Mayor and/or Council Member provided at least seventy-two (72) hours' notice be given to the Town Clerk. Workshops are opportunities for Councilors to discuss issues and provide policy guidance. The public may comment at workshops provided such comments are limited to three minutes per person. No formal votes may be held at workshops, but non-binding "straw polls" may be used to determine the intentions of the Council.
- b) Additionally, the Council, by majority vote, may call for a workshop at any duly noticed meeting. The Council will specify the date, time and place of the workshop and the business to be discussed.
- d) The Town Manager will be responsible for the agenda and packet to be delivered to each individual Council Member at least forty-eight (48) hours prior to the meeting.

5. Quorum

- a) A quorum for the transaction of business will consist of three (3) Council Members.
- b) If no quorum is present, the meeting will be adjourned or continued as a Workshop. The Presiding Officer will decide to schedule a special meeting, or table the remaining agenda items until the next scheduled meeting.
- c) Workshops may consist of two (2) or more Council Members.

6. Cancellation of Meeting

Whenever a council meeting is cancelled after the agenda has been distributed or posted, the items on that agenda will automatically be postponed to the next regular or special meeting.

7. Closed Meetings

- a) All meetings of the Town Council will be open to the public with exceptions as provided for by state statute.
- b) No member of the Town Council, employee of the Town, or any other person will disclose the content or substance of any closed meeting until the transcript of the meeting becomes public record upon conclusion of the litigation.

8. Presiding Officers

- a) Whenever the term "Presiding Officer" is used, it will mean the Mayor, and if the Mayor is absent, it will apply equally to the Mayor Pro Tempore, and if the Mayor Pro Tempore is also absent, to the temporary presiding officer elected pursuant to this section.
- b) The Mayor will preside over all meetings of the Council. In the absence of the Mayor and the Mayor Pro Tempore, the Town Manager will call the Council to order, whereupon a temporary meeting presiding officer will be elected by the majority vote of Council Members present as their first order of business. Upon the arrival of the Mayor or the Mayor Pro Tempore, the temporary presiding officer will relinquish the chair at the conclusion of the item of business then before the Council.
- c) The Presiding Officer may move, second, debate, and vote and will not be deprived of any of the rights and privileges of a Council Member.

- d) The Presiding Officer will maintain order and decorum at all meetings. He or she will decide all questions of order and procedure, with the counsel, if necessary, of the Town Attorney.
- e) For matters other than legislative ordinances and quasi-judicial matters, the Presiding Officer, or such person as he or she may designate may verbally summarize the item to be voted upon immediately after it has been moved and seconded and may restate each question immediately prior to calling for the vote. If there is no second to a Motion made, the Mayor may announce that the Motion died for lack of a second and will request that a new Motion be made. After a new Motion is made and there is a second, the Council may discuss the matter further if necessary. The Presiding Officer may close the discussion once he or she deems it appropriate and will then ask the clerk for a Roll Call vote. Following the vote, the Presiding Officer will announce whether the item carried or was defeated.

9. Decorum of Council Members

- a) Council Members will confine comments to the question under debate and will refrain from impugning the motives of any other member's argument or vote.
- b) A Council Member, who is being disruptive and is called to order by the Presiding Officer, will thereupon discontinue speaking.

10. Use of Electronic Media Technology for Meetings

- a) Electronic media technology has become a valuable and prevalent asset for group meetings. Electronic media will, at a minimum, provide the capability of two-way voice communication audible to Council Members not present and present at the meeting.
- b) Except as provided by law, a Council member absent from the meeting may enter into discussion by telephone or video conference but may not vote unless present as long as a quorum of Council Members are physically present at the meeting. However, if a quorum is physically present, the participation and vote of an absent member is permissible when such absence is due to extraordinary circumstances such as illness. Such a circumstance is a determination that must be made in the good judgement of the Council.
- c) The absentee member will provide notice to the Town Manager of his/her request to participate via electronic media technology and the circumstance as listed above. The Town Manager will provide this request to the Council members.
- d) Two (2) Council members may not be present at the same remote location.

11. Agendas

- a) In order to facilitate the orderly conduct of business, the Town Manager will determine and prepare the agenda for each Council meeting.
- b) Subject to these rules, items of business may be placed on a regular meeting agenda by the Town Manager. Except as provided in Section 3, Emergency Meetings, the Town Manager must make any and all changes or additions to the agenda before 5:00 p.m. three (3) days before the Council meeting. No business other than the items specified in the agenda shall be transacted during a council meeting unless approved by a supermajority vote of all councilors present.
- c) When a Council Member wishes to request an item to be placed on the regular meeting agenda, the item will be presented to the Town Manager's office no later than seven (7) days preceding the Council meeting so that the information may be included as part of the regular agenda which will

be distributed to the members preceding the meeting. If a councilor's requested item is not placed on an agenda, a majority of the council can have the item added to a subsequent meeting.

- d) Any agenda item which has been noticed to the public can only be removed from the agenda with the approval of the Town Council.
- e) No item will be placed on an agenda which is substantially the same as an item voted upon by the Council within the last six months unless three or more Council Members agree. During other business at a regular Council meeting, the Council will discuss and vote on whether such an agenda item should be formally reconsidered by the Council on a future agenda.
- f) The agenda packet for each regular meeting will be delivered to each Council member so as to provide proper time for the member to study the agenda packet. Generally, the agenda packet should be delivered no later than four (4) days prior to the meeting. The agenda packet for a special meeting will be delivered at least forty-eight (48) hours before the meeting, consistent with provisions calling for special meetings.
- g) The Council will transact business according to the agenda prepared by the Town Manager and submitted to all Council members in advance of the meeting. The order of business may be altered at any meeting by a majority vote of the members present.

12. Order of Business

At any regular or special meeting, the Council will proceed to transact the business before it in the following order:

- a) Call to Order;
- b) Pledge of Allegiance;
- c) Invocation;
- d) Roll Call;
- e) Acknowledgement of Quorum Present and Proper Notice Given;
- f) Welcome and Introduction of Guests;
- g) Agenda Approval/Review;
- h) Public Question & Comment;
- i) Consent Agenda;
- j) Public Hearings;
- k) Old Business;
- l) New Business
- m) Department Reports;
- n) Council Member Comment;
- o) Adjournment.

13. Meeting Procedures (Discussion Flow / Making Motions)

Town Council meeting procedures are aimed at improving discussion flow, managing public comments, and clarifying motion-making processes to make more efficient, equitable meetings.

- a) Preliminary Motions will be included in the Staff Reports: Staff Reports would include a requested or recommended motion, providing a starting point for Council discussion.
- b) It is important that the public should hear the views and explanations from Council and that Council shall hear and take account of public opinion before a motion is made. Therefore, other than for Public Hearings, the Presiding Officer will determine whether Public Question & Comment will be heard before Council Discussion or after.

- c) Councilors shall refrain from making motions before each Councilor has the opportunity to share their perspective and public input has taken place. This ensures balanced participation and helps address the key concerns.
- d) When the item has been fully discussed and after public comment has been heard, the Presiding Officer will call for a motion and vote without reopening the discussion unless necessary.
- e) Limiting Actions on Discussion-Only Items: Council shall refrain from making motions or approving items explicitly designated as discussion-only items on the agenda. This ensures transparency and adherence to intended agenda purposes. If necessary, a motion and vote to turn a discussion item into a voting item can be made by a supermajority of the council.

14. Public Input

It is the policy of the Council to permit and encourage input and comments by members of the public during the Public Question & Comment period as well as during public hearings. The Presiding Officer will strive to provide equal opportunity for individuals to address the Council at the appropriate times during the meeting.

- a) Input and comments by the public can be made during the Public Question & Comment period of the meeting. Clarification of questions by a Council Member regarding comments or input by a member of the public are permitted. Public comments are limited to three minutes per person; the Presiding Officer may permit additional time to a given speaker on a case-by-case basis. At the Public Question & Comment period of the meeting, each person desiring to address the Council will approach the podium, state his or her name and address for the record, and state the subject. The Town Council will hear questions, comments, and concerns from the citizens. If the issue raised is not on that day's agenda, action will not be taken by the Council at the meeting. Questions may be answered by staff or referred for appropriate staff action. If further action is necessary, the item may be placed on a future Council agenda. Specific zoning approval questions that have not yet come to Council and active code enforcement cases shall not be discussed during the Public Question & Comment period.

Each person is requested to observe general rules of decorum and civility (speak one at time, avoid personal attacks, and avoid profanity). While input and comments by the public are encouraged, the Council Members will not engage in debate with members of the public. In order to be able to address all agenda items, the general Public Question & Comment period will be limited to a maximum of thirty (30) minutes unless extended by the Presiding Officer.

- b) For Public Hearings, after an ordinance's title is read and the applicant provides a presentation, the Presiding Officer will ask whether any member of the public has any questions or comments. Public comments are limited to three (3) minutes per speaker; the Presiding Officer may permit additional time to a given speaker on a case-by-case basis. During public comment, Council Members may ask questions of those commenting but will not debate the matter with the party commenting. If there is no public comment or after public comment is closed, the Presiding Officer will ask for a Motion from the Council.
- c) During any public input, the Presiding Officer may:
 - (1) Interrupt, warn, or terminate a participant's statement when the statement is too lengthy, personally directed, abusive, obscene, or irrelevant.
 - (2) Request any individual to leave the meeting when that person does not observe reasonable decorum.
 - (3) Request the assistance of law enforcement officers in the removal of a disorderly person when that person's conduct interferes with the orderly progress of the meeting.

- (4) Call for a recess or an adjournment to another time when the lack of public decorum so interferes with the orderly conduct of the meeting as to warrant such action.

15. Voting

- a) When the Clerk has commenced to call roll of the Council for the taking of a vote, all debate on the question before the Council will be deemed concluded. During the taking of the vote, a member will be permitted to ask a clarifying question of the Town Manager or Town Attorney and/or briefly explain his or her vote, and the member will respond to the calling of his or her name by the Clerk by answering “Yes” or “No” as the case may be.
- b) The Clerk will call the roll on a rotating basis so that every Council Member will have the opportunity to vote first on an issue at one time or another, provided the Presiding Officer will always be the last to voice his or her vote.
- c) Unless otherwise specified by these rules, all ordinances, resolutions, or motions will be passed by the affirmative vote of no less than a majority of Council Members present.
- d) A roll call vote will be required for the following:
 - (1) All ordinances and resolutions.
 - (2) All approval of contracts.
 - (3) All motions to create an office or a position of employment.
 - (4) All financial matters, budgets, budget amendments and appropriations.
- e) The Presiding Officer may utilize a voice vote for the approval of the consent agenda, approval of minutes or other matters where a roll call vote is not required by law; provided, however, that a roll call vote will be taken upon the timely request of any Council Member.
- f) A vote lacking the required number of affirmative votes will constitute defeat of a motion.
- g) A Council Member may change his or her vote only if a timely request to do so is made prior to the announcement of the vote by the Presiding Officer.
- h) Unless otherwise provided for by statute, if a Council Member present has reason to think a conflict of interest may exist on a particular matter, he or she will, after consultation with the Town Attorney, so state the nature of his or her disqualification in the open Council meeting. A Council Member who so announces a conflict of interest in any matter may remain seated during the debate or may leave. However, he or she will not vote or otherwise participate on such matter. The Town Clerk and Town Attorney will assist the disqualified Council Member in filing the necessary documentation with the Florida Commission on Ethics.
- i) Where lack of a quorum during a convened meeting results from the absence of a Council Member, the minutes will be so noted, and the matter under consideration will be considered as having been postponed until the next regular meeting. The meeting may continue after the postponement has been announced by the Presiding Officer and the member breaking the quorum has resumed his or her presence, otherwise the Presiding Officer will declare the meeting adjourned after such announcement.
- j) The Presiding Officer should announce the vote upon every matter upon which a vote is taken.

- k) On workshops and other matters not requiring a vote, the Council may take a straw poll to provide staff with clear direction on the consensus of the majority of the Council.

16. Documents.

- a) Minutes of all regular and special meetings will be digitally recorded. Such minutes will be maintained in the office of the Town Clerk. The minutes will reflect:
- (1) The date, time and place of the meeting or session.
 - (2) The members recorded as either present or absent.
 - (3) A general description of all matters proposed, discussed, or decided.
 - (4) Record of any votes taken.
- b) A Council Member may request, through the Presiding Officer, the privilege of having his or her comments or written statement entered into the minutes concerning any matter pending before the Council.
- c) Such minutes may be revised at any time by the Town Clerk to correct spelling, numbering, and other such technical defects. Prior to approval, any member may request the correction of any inaccuracy within the minutes. If objection is made by any Council Member to such correction of any inaccuracy, a majority vote of the Council will be necessary for adoption of the correction.
- d) Audio recordings of meetings will be taken and retained per Florida General Records Schedules. The Town Clerk's office is not required to prepare verbatim transcripts for any parts of any minutes of Town Council meetings unless the Town Council, by majority vote, directs verbatim transcripts for any parts of any minutes it deems necessary and proper for conducting internal affairs of the Town or when required for closed meetings.
- e) The Mayor will sign all approved ordinances, resolutions and other documents requiring his or her signature. If the Mayor is unavailable to do so, the Mayor Pro Tempore will be permitted to sign all ordinances, resolutions and other documents requiring the Mayor's signature in his or her absence.

17. Failure to observe procedures.

These rules are adopted to expedite the transaction of the business of the Council in an orderly fashion and are deemed to be procedural only. The failure to strictly observe such rules by the Council will not affect the jurisdiction of the Council or invalidate any action taken at a meeting that is otherwise held in conformity with law. Any rule herein stated can be waived in a given meeting by a supermajority of all councilors present.

18. Disruption of Meetings

No person will interrupt, disturb, or disrupt any Regular Meeting, Special Meeting or Workshop of the Council. Upon direction of the Presiding Officer, any such person will be asked to leave the meeting.

19. Amendment of Rules

These rules will be amended by resolution.

HOWEY IN THE HILLS TOWN COUNCIL RULES OF ORDER

1. Meetings

- a) The Town Council is empowered to determine the policies necessary for the effective operation and general improvement of the town.
- b) The council shall meet regularly on the second and fourth Monday of each month at such times and places as the Council may prescribe. By ordinance, the council may change from time to time the days of the month when regular meetings are to be held.
- c) Any meeting falling upon a legal holiday or other date on which a majority of the Council is not able to attend will be rescheduled.
- d) The Town Manager is responsible for determining and preparing the agenda for each meeting of Town Council.
- e) The Town Clerk is responsible for proper noticing of the meetings, and preparing the respective ordinances, resolutions, and reports for each meeting.
- f) The Town Council will endeavor to complete regular meetings within two and a half hours. In the event a meeting approaches two and a half hours in length, the Mayor will request if the Council would like to extend the meeting, schedule a special meeting, or table the remaining agenda items until the next scheduled meeting. This will then be decided by a majority vote from the Council.
- g) The parliamentary authority governing the Town Council will be the most recent edition of Robert's Rules of Order, Newly Revised in Brief, except as otherwise provided by these rules of order.

2. Special Meetings

- a) Special meetings shall be held on the call of either the Town Manager or a majority of the council, when called in writing, with written notice to the Mayor and Town Council members no less than 72 hours before the meeting (except in cases of extreme emergency) setting forth the date, time, place and purpose of the special meeting; the Town Clerk shall be responsible for noticing the meetings. No business other than the purpose specified in the call shall be transacted during the special meeting unless approved by a supermajority-unanimous vote of all councilors present.
- b) Additionally, the Council, by majority vote, may call for a special meeting at any duly noticed meeting. The Council will specify the date, time and place of the special meeting and the business to be conducted.
- c) The Town Manager will be responsible for the agenda and packet to be delivered to each individual Council Member at least forty-eight (48) hours prior to the meeting.

3. Emergency Meetings

An emergency meeting may be called by the Town Manager providing such notice has been provided to the members of the Council and the Town Clerk and public notice is given as practical under the circumstances. An emergency necessitating such a meeting is a perceived immediate threat to the public health, safety, or welfare of the community and as otherwise defined by Florida law.

4. Workshops

- a) Workshops may be scheduled by the Town Manager, Mayor and/or Council Member provided at least seventy-two (72) hours' notice be given to the Town Clerk. Workshops are opportunities for Councilors to discuss issues and provide policy guidance. The public may comment at workshops provided such comments are limited to three minutes per person. No formal votes may be held at workshops, but non-binding "straw polls" may be used to determine the intentions of the Council.
- b) Additionally, the Council, by majority vote, may call for a workshop at any duly noticed meeting. The Council will specify the date, time and place of the special meeting workshop and the business to be transacted/discussed. ~~No other business, other than as recited in the notice, will be transacted at such workshops.~~
- d) The Town Manager will be responsible for the agenda and packet to be delivered to each individual Council Member at least forty-eight (48) hours prior to the meeting.

5. Quorum

- a) A quorum for the transaction of business will consist of three (3) Council Members.
- b) If no quorum is present, the meeting will be adjourned or continued as a Workshop. The Presiding Officer will decide to schedule a special meeting, or table the remaining agenda items until the next scheduled meeting.
- c) Workshops may consist of two (2) or more Council Members.

6. Cancellation of Meeting

Whenever a council meeting is cancelled after the agenda has been distributed or posted, the items on that agenda will automatically be postponed to the next regular or special meeting.

7. Closed Meetings

- a) All meetings of the Town Council will be open to the public with exceptions as provided for by state statute.
- b) No member of the Town Council, employee of the Town, or any other person will disclose the content or substance of any closed meeting until the transcript of the meeting becomes public record upon conclusion of the litigation.

8. Presiding Officers

- a) Whenever the term "Presiding Officer" is used, it will mean the Mayor, and if the Mayor is absent, it will apply equally to the Mayor Pro Tempore, and if the Mayor Pro Tempore is also absent, to the temporary presiding officer elected pursuant to this section.
- b) The Mayor will preside over all meetings of the Council. In the absence of the Mayor and the Mayor Pro Tempore, the Town Manager will call the Council to order, whereupon a temporary meeting presiding officer will be elected by the majority vote of Council Members present as their first order of business. Upon the arrival of the Mayor or the Mayor Pro Tempore, the temporary presiding officer will relinquish the chair at the conclusion of the item of business then before the Council.

- c) The Presiding Officer may move, second, debate, and vote and will not be deprived of any of the rights and privileges of a Council Member.
- d) The Presiding Officer will maintain order and decorum at all meetings. He or she will decide all questions of order and procedure, with the counsel, if necessary, of the Town Attorney.
- e) For matters other than legislative ordinances and quasi-judicial matters, the Presiding Officer, or such person as he or she may designate may verbally summarize the item to be voted upon immediately after it has been moved and seconded and may restate each question immediately prior to calling for the vote. If there is no second to a Motion made, the Mayor may announce that the Motion died for lack of a second and will request that a new Motion be made. After a new Motion is made and there is a second, the Council may discuss the matter further if necessary. The Presiding Officer may close the discussion once he or she deems it appropriate and will then ask the clerk for a Roll Call vote. Following the vote, the Presiding Officer will announce whether the item carried or was defeated.

9. Decorum of Council Members

- a) Council Members will confine comments to the question under debate and will refrain from impugning the motives of any other member's argument or vote.
- b) A Council Member, ~~when who is being disruptive and is~~ called to order by the Presiding Officer, will thereupon discontinue speaking.

10. Use of Electronic Media Technology for Meetings

- a) Electronic media technology has become a valuable and prevalent asset for group meetings. Electronic media will, at a minimum, provide the capability of two-way voice communication audible to Council Members not present and present at the meeting.
- b) Except as provided by law, a Council member absent from the meeting may enter into discussion by telephone or video conference but may not vote unless present as long as a quorum of Council Members are physically present at the meeting. However, if a quorum is physically present, the participation and vote of an absent member is permissible when such absence is due to extraordinary circumstances such as illness. Such a circumstance is a determination that must be made in the good judgement of the Council.
- c) The absentee member will provide notice to the Town Manager of his/her request to participate via electronic media technology and the circumstance as listed above. The Town Manager will provide this request to the Council members.
- d) Two (2) Council members may not be present at the same remote location.

11. Agendas

- a) In order to facilitate the orderly conduct of business, the Town Manager will determine and prepare ~~an~~the agenda for each Council meeting.
- b) Subject to these rules, items of business may be placed on a regular meeting agenda by the Town Manager. ~~Except as provided in Section 3, Emergency Meetings, the Town Manager will not change or supplement the agenda after 5:00 p.m. three (3) days before the scheduled Council meeting.~~ Except as provided in Section 3, Emergency Meetings, the Town Manager must make any and all changes or additions to the agenda before 5:00 p.m. three (3) days before the Council meeting. No business other than the items specified in the agenda shall be transacted during a council meeting unless approved by a supermajority vote of all councilors present.

b)

- c) When a Council Member wishes to request an item to be placed on the regular meeting agenda, the item will be presented to the Town Manager's office no later than seven (7) days preceding the Council meeting so that the information may be included as part of the regular agenda which will be distributed to the members preceding the meeting. If a councilor's requested item is not placed on an agenda, a majority of the council can have the item added to a subsequent meeting.
- d) Any agenda item which has been noticed to the public can only be removed from the agenda with the approval of the Town Council.
- e) No item will be placed on an agenda which is substantially ~~similar-the same as~~ an item voted upon by the Council within the last six months unless three or more Council Members agree. During other business at a regular Council meeting, the Council will discuss and vote on whether such an agenda item should be formally reconsidered by the Council on a future agenda.
- f) The agenda packet for each regular meeting will be delivered to each Council member so as to provide proper time for the member to study the agenda packet. Generally, the agenda packet should be delivered no later than four (4) days prior to the meeting. The agenda packet for a special meeting will be delivered at least forty-eight (48) hours before the meeting, consistent with provisions calling for special meetings.
- g) The Council will transact business according to the agenda prepared by the Town Manager and submitted to all Council members in advance of the meeting. The order of business may be altered at any meeting by a majority vote of the members present.

12. Order of Business

At any regular or special meeting, the Council will proceed to transact the business before it in the following order:

- a) Call to Order;
- b) Pledge of Allegiance;
- c) Invocation;
- d) Roll Call;
- e) Acknowledgement of Quorum Present and Proper Notice Given;
- f) Welcome and Introduction of Guests;
- g) Agenda Approval/Review;
- h) Public Question & Comment;
- i) Consent Agenda;
- j) Public Hearings;
- k) Old Business;
- l) New Business
- m) Department Reports;
- n) Council Member Comment;
- o) Adjournment.

13. Meeting Procedures (Discussion Flow / Making Motions)

Town Council meeting procedures are aimed at improving discussion flow, managing public comments, and clarifying motion-making processes to make more efficient, equitable meetings.

- a) Preliminary Motions will be included in the Staff Reports: Staff Reports would include a requested or recommended motion, providing a starting point for Council discussion.
- b) It is important that the public should hear the views and explanations from Council and that Council shall hear and take account of public opinion before a motion is made. Therefore, other

than for Public Hearings, the Presiding Officer will determine whether Public Question & Comment will be heard before Council Discussion or after.

- c) Councilors shall refrain from making motions before each Councilor has the opportunity to share their perspective and public input has taken place. This ensures balanced participation and helps address the key concerns.
- d) When the item has been fully discussed and after public comment has been heard, the Presiding Officer will call for a motion and vote without reopening the discussion unless necessary.
- e) Limiting Actions on Discussion-Only Items: Council shall refrain from making motions or approving items explicitly designated as discussion--only items on the agenda. This ensures transparency and adherence to intended agenda purposes. If necessary, a motion and vote to turn a discussion item into a voting item can be made by a supermajority of the council.

14. Public Input

It is the policy of the Council to permit and encourage input and comments by members of the public during the Public Question & Comment period as well as during public hearings. The Presiding Officer will strive to provide equal opportunity for individuals to address the Council at the appropriate times during the meeting.

- a) Input and comments by the public can be made during the Public Question & Comment period of the meeting. Clarification of questions by a Council Member regarding comments or input by a member of the public are permitted. Public comments are limited to three minutes per person; the Presiding Officer may permit additional time to a given speaker on a case-by-case basis. At the Public Question & Comment period of the meeting, each person desiring to address the Council will approach the podium, state his or her name and address for the record, and state the subject. The Town Council will hear questions, comments, and concerns from the citizens. If the issue raised is not on that day’s agenda, action will not be taken by the Council at the meeting. Questions may be answered by staff or referred for appropriate staff action. If further action is necessary, the item may be placed on a future Council agenda. Specific zoning approval questions that have not yet come to Council and active code enforcement cases shall not be discussed during the Public Question & Comment period.

Each person is requested to observe general rules of decorum and civility (speak one at time, avoid personal attacks, and avoid profanity). While input and comments by the public are encouraged, the Council Members will not engage in debate with members of the public. In order to be able to address all agenda items, the general Public Question & Comment period will be limited to a maximum of thirty (30) minutes unless extended by the Presiding Officer.

- b) For Public Hearings, after an ordinance’s title is read and the applicant provides a presentation, the Presiding Officer will ask whether any member of the public has any questions or comments. Public comments are limited to three (3) minutes per speaker; the Presiding Officer may permit additional time to a given speaker on a case-by-case basis. During public comment, Council Members may ask questions of those commenting but will not debate the matter with the party commenting. If there is no public comment or after public comment is closed, the Presiding Officer will ask for a Motion from the Council.
- c) During any public input, the Presiding Officer may:
 - (1) Interrupt, warn, or terminate a participant’s statement when the statement is too lengthy, personally directed, abusive, obscene, or irrelevant.
 - (2) Request any individual to leave the meeting when that person does not observe reasonable decorum.

- (3) Request the assistance of law enforcement officers in the removal of a disorderly person when that person's conduct interferes with the orderly progress of the meeting.
- (4) Call for a recess or an adjournment to another time when the lack of public decorum so interferes with the orderly conduct of the meeting as to warrant such action.

15. Voting

- a) When the Clerk has commenced to call roll of the Council for the taking of a vote, all debate on the question before the Council will be deemed concluded. During the taking of the vote, a member will be permitted to ask a clarifying question of the Town Manager or Town Attorney and/or briefly explain his or her vote, and the member will respond to the calling of his or her name by the Clerk by answering "Yes" or "No" as the case may be.
- b) The Clerk will call the roll on a rotating basis so that every Council Member will have the opportunity to vote first on an issue at one time or another, provided the Presiding Officer will always be the last to voice his or her vote.
- c) Unless otherwise specified by these rules, all ordinances, resolutions, or motions will be passed by the affirmative vote of no less than a majority of Council Members present.
- d) A roll call vote will be required for the following:
 - (1) All ordinances and resolutions.
 - (2) All approval of contracts.
 - (3) All motions to create an office or a position of employment.
 - (4) All financial matters, budgets, budget amendments and appropriations.
- e) The Presiding Officer may utilize a voice vote for the approval of the consent agenda, approval of minutes or other matters where a roll call vote is not required by law; provided, however, that a roll call vote will be taken upon the timely request of any Council Member.
- f) A vote lacking the required number of affirmative votes will constitute defeat of a motion.
- g) A Council Member may change his or her vote only if a timely request to do so is made prior to the announcement of the vote by the Presiding Officer.
- h) Unless otherwise provided for by statute, if a Council Member present has reason to think a conflict of interest may exist on a particular matter, he or she will, after consultation with the Town Attorney, so state the nature of his or her disqualification in the open Council meeting. A Council Member who so announces a conflict of interest in any matter may remain seated during the debate or may leave. However, he or she will not vote or otherwise participate on such matter. The Town Clerk and Town Attorney will assist the disqualified Council Member in filing the necessary documentation with the Florida Commission on Ethics.
- i) Where lack of a quorum during a convened meeting results from the absence of a Council Member, the minutes will be so noted, and the matter under consideration will be considered as having been postponed until the next regular meeting. The meeting may continue after the postponement has been announced by the Presiding Officer and the member breaking the quorum has resumed his or

her presence, otherwise the Presiding Officer will declare the meeting adjourned after such announcement.

- j) The Presiding Officer should announce the vote upon every matter upon which a vote is taken.
- k) On workshops and other matters not requiring a vote, the Council may take a straw poll to provide staff with clear direction on the consensus of the majority of the Council.

16. Documents.

- a) Minutes of all regular and special meetings will be digitally recorded. Such minutes will be maintained in the office of the Town Clerk. The minutes will reflect:
 - (1) The date, time and place of the meeting or session.
 - (2) The members recorded as either present or absent.
 - (3) A general description of all matters proposed, discussed, or decided.
 - (4) Record of any votes taken.
- b) A Council Member may request, through the Presiding Officer, the privilege of having his or her comments or written statement entered into the minutes concerning any matter pending before the Council.
- c) Such minutes may be revised at any time by the Town Clerk to correct spelling, numbering, and other such technical defects. Prior to approval, any member may request the correction of any inaccuracy within the minutes. If objection is made by any Council Member to such correction of any inaccuracy, a majority vote of the Council will be necessary for adoption of the correction.
- d) Audio recordings of meetings will be taken and retained per Florida General Records Schedules. The Town Clerk's office is not required to prepare verbatim transcripts for any parts of any minutes of Town Council meetings unless the Town Council, by majority vote, directs verbatim transcripts for any parts of any minutes it deems necessary and proper for conducting internal affairs of the Town or when required for closed meetings.
- e) The Mayor will sign all approved ordinances, resolutions and other documents requiring his or her signature. If the Mayor is unavailable to do so, the Mayor Pro Tempore will be permitted to sign all ordinances, resolutions and other documents requiring the Mayor's signature in his or her absence.

17. Failure to observe procedures.

These rules are adopted to expedite the transaction of the business of the Council in an orderly fashion and are deemed to be procedural only. The failure to strictly observe such rules by the Council will not affect the jurisdiction of the Council or invalidate any action taken at a meeting that is otherwise held in conformity with law. Any rule herein stated can be waived in a given meeting by a supermajority of all councilors present.

18. Disruption of Meetings

No person will interrupt, disturb, or disrupt any Regular Meeting, Special Meeting or Workshop of the Council. Upon direction of the Presiding Officer, any such person will be asked to leave the meeting.

19. Amendment of Rules

Item 4.

These rules will be amended by resolution.



Date: 1/27/2025

To: Mayor and Town Council

From: Morgan Cates

Re: Discussion: **Community Development Block Grant – Disaster Recovery (CDBG – DR) Application for Funding**

Objective:

To apply for and secure CDBG - DR Funding to cover the local match (Howey 25%) on the FDEM/FEMA Mitigation Grant for the Emergency Bypass Pumps at Lift Station #1 and Lift Station #2.

Summary:

The CDBG – DR provides flexible Community Development Block Grant Disaster Recovery (CDBG-DR) funds to help cities, counties, and states to recover from Presidentially declared disasters. Acquiring the CDBG – DR Grant Funding along with the FDEM/FEMA Mitigation Grant Funding would reduce the Town’s Fiscal Impact for both Wastewater Lift Station Bypass Projects from \$339,334 to \$0.

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:

Project #1 - Wastewater Lift Station #1 Bypass Pump Project:

Total Cost: \$141,455.00

FDEM/FEMA 75%: \$106,091.25

Howey 25% Share: \$35,363.75

Project #2 - Wastewater Lift Station #2 Bypass Pump & Wet Well Pump Upgrades Project:

Total Cost: \$197,879.00

FDEM/FEMA 75%: \$148,409.25

Howey 25% Share: \$49,469.75

Staff Recommendation:

Approve the Public Services Director and Town Manager to apply for and secure the CDBG – DR Funding to cover the Town’s 25% funding match on the FDEM/FEMA Mitigation Grant for the Emergency Bypass Pumps at Lift Stations #1 and Lift Station #2.

TOWN OF HOWEY-IN-THE-HILLS PUBLIC NOTICE

Community Development Block Grant – Disaster Recovery Program (CDBG-DR)

Hurricane Ian devastated Florida on September 28, 2022 with heavy rains and flooding. The United States Department of Housing and Urban Development (HUD) announced that the state of Florida would receive \$2.7 billion in Community Development Block Grant - Disaster Recovery (CDBG-DR) funding to support long-term resiliency and mitigation efforts following Hurricane Ian. The Florida Department of Commerce (FloridaCommerce) is the governor-designated state authority responsible for administering these funds. Funds are able to be used in a wide range of activities related to disaster relief and mitigation of risk associated with such activities. The Town of Howey-in-the-Hills has submitted applications with the Federal Emergency Management Agent (FEMA) under the Hazard Mitigation Grant Program (HMGP). The Town will use the CDBG-DR funds as local match for the proposed HMGP projects listed below:

The Town proposes to request funds for the following projects:

1. Wastewater Lift Station #1 Bypass Pump Project. The bypass pump will enable the Town of Howey-in-the-Hills to serve the community pre, post, and during a storm. This project will provide emergency backup pumps for the lift station, ensuring continued operation during power outages or catastrophic pump failures and safeguarding public health for residents in the service area. Estimated Cost \$141,455.00. CDBG-DR funds \$35,363.75

2. Wastewater Lift Station #2 Bypass Pump & Wet Well Pump Upgrades Project. The bypass pump will enable the Town of Howey-in-the-Hills to serve the community pre, post, and during a storm. This project will provide emergency backup pumps for the lift station, ensuring continued operation during power outages or catastrophic pump failures and safeguarding public health for residents in the service area. The lift station currently has outdated submersible wet well pumps that cannot be repaired. This project will provide for updated pumps with models featuring readily available repair parts. The estimated Cost is \$197,879.00. CDBG-DR funds \$49,469.75.

The Town of Howey-in-the-Hills does not anticipate that anyone will be displaced because of the CDBG-DR funded activities proposed above.

For information related to EEO please visit the Town's webpage at www.howey.org/townclerk/page/employment.

This public notice and comment period is being conducted pursuant to the provisions of the Americans with Disabilities Act to ensure accessibility to all. The applications are available for public review and or comment in Town Hall at 101 N Palm Ave., Howey-in-the-Hills, FL, Monday through Thursday 8 a.m. to 5 p.m. and Friday 8 a.m. to 3:45 p.m. There will be a 10-day public comment period. **Comments must be made by January 27, 2025.** Comments will be accepted online and in writing. Online comments can be emailed to: mcates@howey.org and written comments can be mailed to Town of Howey-in-the-Hills CDBG-DR Attention: Morgan Cates at PO Box 128, Howey-in-the-Hills, FL 34737. For a copy of the application or any questions regarding the CDBG-DR program please contact Morgan Cates, Public Services Director, at 352-324-2290.

Any person requiring special accommodations to participate in this public notification is asked to reach out to John Brock, Town Clerk, at 352-324-2290. If you are hearing, speech impaired, or need other accommodations, or any non-English speaking person wishing to receive information on this public notice can contact John Brock, Town Clerk, at 352-324-2290 or jbrock@howey.org and interpretation will be provided.

Complaints or Concerns

Complaints or any suspected fraud, waste, and abuse related to CDBG-DR-funded activities may be submitted via email to mcates@howey.org or via mail to Morgan Cates, Public Services Director, PO Box 128, Howey-in-the-Hills, FL 34737. Written complaints from the public will receive a meaningful review and a written reply within fifteen (15) working days from receipt of the complaint.

A FAIR HOUSING/EQUAL OPPORTUNITY/HANDICAP ACCESS JURISDICTION



Date: January 27, 2025

To: Mayor and Town Council

From: Sean O’Keefe, Town Manager

Re: Consideration and Approval: **HALFF 12” Change Order**

Objective:

To review and approve **Change Order No. 2** for Water Treatment Plant No. 3 (WTP No. 3), which includes the installation of a 12-inch water main interconnection and additional project-related services to enhance fire protection and system reliability.

Summary:

Halff Associates, Inc. has submitted Change Order No. 2 for the design of the WTP No. 3 project. This change order is based on hydraulic modeling results and includes design tasks required to complete the project and meet the Town's fire protection and utility service objectives.

The main component of the change order includes the design of the 12-Inch Water Main Interconnection, the design of which includes approximately 5,650 linear feet of 12-inch waterline to loop WTP No. 3 with the existing water distribution system. The total cost of this design component is \$162,480.

This change order is necessary to ensure the WTP No. 3 project achieves the following objectives:

- **Fire Protection:** The installation of the 12-inch water main interconnection will provide adequate fire protection across the Town.
- **System Resiliency:** Looping the water system enhances redundancy, minimizing service interruptions.
- **Regulatory Compliance:** The additional permitting and surveying tasks ensure compliance with FDOT and Lake County regulations.

Fiscal Impact:

The additional \$162,480 cost will be funded from the unallocated fund balance of the Water Impact Fee Fund.

Staff Recommendation:

Staff recommends approval of Change Order No. 2 as presented.

WATER MASTER PLAN

TOWN OF HOWEY-IN-THE-HILLS

Prepared For:



Prepared By:



902 North Sinclair Avenue + Tavares, Florida 32778
Phone (352) 343-8481 + Fax (352) 343-8495

December 2024

TOWN OF HOWEY-IN-THE-HILLS

WATER MASTER PLAN

Prepared for:

TOWN OF HOWEY-IN-THE-HILLS

101 N. Palm Avenue • Howey-in-the-Hills, Florida 34737

Prepared by:

HALFF ASSOCIATES, INC.

902 N. Sinclair Avenue • Tavares, Florida 32778



Digitally signed by
Troy Mitchell
DN: cn=Troy
Mitchell,
ou=Tavares
Date: 2024.12.16
10:49:14 -05'00'

Troy Mitchell, P.E. #60190

Date: December 16, 2024

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- Appendix F Water Treatment System Calculations
- Appendix G WaterCAD Analyses

Section 1

Introduction

1.0 General

The Town of Howey-in-the-Hills' water treatment and distribution system consists of three (3) potable supply wells, two (2) water treatment plants, and approximately 20 miles of distribution piping networked throughout the Town. The water treatment plants have an average annual combined consumptive use permitted capacity of 0.90 million gallons per day (MGD) for household, commercial/industrial, urban landscape irrigation, water utility, and unaccounted for water use until March 12, 2029. The Florida Department of Environmental Protection (FDEP) has assigned WTP No. 1 and WTP No. 2 permitted capacities of 1.80 MGD and 0.72 MGD, respectively.

The purpose of this report is to provide a planning tool for the Town of Howey-in-the-Hills to utilize in planning future capital needs of the potable water system as well as expansions and upgrades to the water system.

1.1 Master Plan Objectives

This Potable Water Master Plan was undertaken with the following objectives:

- Provide an overview of the Town's existing potable water treatment assets.
- Review the Town's potable water service area and areas targeted for expansion.
- Establish a potable water level of service based upon historical potable water demand data.
- Project the number of future connections and potable water demands within the service area.
- Evaluate compliance with regulatory requirements related to water treatment plant capacity and groundwater withdrawals.
- Develop recommendations for improvements to the potable water treatment system to maintain compliance with existing and proposed future regulatory requirements and to accommodate new growth.
- Prepare a conceptual opinion of probable construction cost for the recommended improvements.
- Prioritize recommended improvements into an implementation plan with triggers based upon growth in the number of new service connections.

1.2 Data Collection

The recommendations in this Potable Water Master Plan were developed based upon a review of data found within the Town's FDEP Permits, St. John's Water Management District (SJRWMD) Consumptive Use Permit, Water Treatment Plant Monthly Operating Reports, EN-50 groundwater withdrawal forms, historical utility billing data, and discussions with Town staff.

1.3 Content and Organization

This Potable Water Master Plan presents the data and methods used to evaluate the Town's potable water treatment and distribution systems, and recommendations for improvements to continue to maintain the same high level of service currently provided to the Town's customers while accommodating future growth. The remainder of the Potable Water Master Plan is organized as described below:

- **Section 2 – Existing Potable Water System:** Review of the potable water system including service area, water treatment plants, and distribution system.
- **Section 3 – Potable Water Demand Projections:** Analysis of historical potable water demand data in order to develop a level of service standard and preparation of future demand projections.
- **Section 4 – Regulatory Compliance:** Evaluation of compliance with all current FDEP and SJRWMD permit requirements.
- **Section 5 – Potable Water System Evaluation:** Evaluation of current potable water system assets with their respect to meet permit limitations at future projected flows and recommendations for improvements.
- **Section 6 – Construction Cost Estimation Methodology:** Methodology for estimating capital costs of project implementation and estimated unit costs.
- **Section 7 – Summary and Recommendations:** Summary of the recommendations of the master plan.

Section 2

Existing Potable Water System

2.0 Background

The Town of Howey in the Hills (Town) established a Chapter 180 Utility Reserve Area (URA) by Ordinance No. 2003-307 in 2003 and revised under Ordinance No. 2013-006. Prior to the URA, the Town's water service area had been limited to its municipal boundaries which encompassed approximately 820 acres. The URA extended the service area to approximately 13,600 acres which consists mainly of agricultural tracts and rural residential use properties. The Town's Utility Service Area Map, as prepared by B&H Consultants, Inc., is attached as Appendix A.

The Town owns and maintains a public water system identified by the state as PWS I.D. No. 3350573. The Town's current water treatment and distribution system consists of three (3) potable supply wells, two (2) water treatment facilities, and approximately 20 miles of distribution piping networked throughout the town. The existing water treatment facilities have a combined maximum day design capacity of 2.52 million gallons per day (MGD). The system currently has approximately 1,284 service connections. The majority of the connections within the Town's service area are residential (1,226) with an estimated population of 2,624. The Town's service area also includes non-residential service connections consisting of commercial, institutional and municipal usage.

The Town's water system is currently operated as two separate systems (north and south) due to elevation differences. The north system is served by Water Treatment Plant (WTP) No. 2 which is located at the intersection of State Road 19 and County Road 48. WTP No. 2 is located on property owned by the FDOT and is leased to the Town. The lease agreement between the Town and the FDOT expires on October 29, 2028. The lease will not be renewed due to the FDOT's plans to expand the intersection with the construction of a roundabout. Property for a new water treatment plant (WTP No. 3) was purchased by the Town from the Lake Hills development. WTP No. 3 will be located on a parcel north and adjacent to the existing WTP No. 2 site. WTP No. 3 is currently in design and its two (2) lower floridan wells have been drilled. WTP No. 2 will be decommissioned when the new water treatment plant is placed in operation. The south system is served by WTP No. 1 which is located at the Public Works Complex on Central Avenue.

The systems are isolated via a pressure regulating valve (PRV) and control system located at the intersection of Magnolia Avenue and SR 19. Currently the system pressures on the north and south sides of the pressure regulating valve are 34 psi

and 55 psi, respectively. The PRV is intended to open when plant pressure at either facility drops below their respective operating pressure set point. Current setpoints are 52 psi on the WTP No. 1 side of the valve and 32 psi on the WTP No. 2 side of the valve.

The Town's current Consumptive Use Permit (CUP No. 2596-9) was issued on March 12, 2024 by the St Johns River Water Management District (SJRWMD). The CUP permits a maximum annual combined groundwater withdraw of 328.5 million gallons per year (MGY) – 0.90 million gallons per day (MGD) annual average. The Town's CUP expires on March 12, 2029. A copy of the CUP is attached in Appendix C. A summary of the groundwater supply wells for each water treatment facility is shown in Table 2.1.

Table 2.1 Summary of Water Supply System				
Treatment Facility	Well No.	Well Pump Capacity (gpm)	FDEP Plant Capacity (MGD)	Type of Use
WTP No. 1	2	1,200	1.80	Potable
	4	1,000		Potable
WTP No. 2 ⁽¹⁾	3	1,000	0.72	Potable
WTP No. 3 ⁽²⁾	5	1,500	2.58 ⁽³⁾	Potable
	6	1,500		Potable
Total Well Capacity		5,200⁽⁴⁾	4.38	

Notes: 1. WTP No. 2 will be abandoned when WTP No. 3 is on-line.
 2. WTP No. 3 is currently in the design/permitting phase.
 3. Estimated permitted capacity.
 4. Excludes well capacity from WTP No. 2.

The Florida Department of Environmental Protection (FDEP) updated the Sanitary Survey Report for both treatment facilities in June 2023. A copy of both reports is provided in Appendix E.

2.1 Water Treatment Facilities

The following is a description of the City's existing water treatment plants and proposed water treatment plant:

2.1.1 WTP No. 1

WTP No. 1 is located at the Public Works Complex on Central Avenue and consists of the following components.

- Two (2) Raw Water Wells
 - Well No. 2 (1,000 gpm capacity)
 - Well No. 4 (1,200 gpm capacity)
- One (1) Chlorine Gas system
- One (1) Aquamag Iron Sequestration system
- One (1) 0.25 MG CROM Ground Storage Tank with a cascade tray aerator
- Two (2) 150 hp Horizontal Split-Case High Service Pumps (2,800 gpm capacity, each)
- One (1) 60 hp Horizontal Split-Case High Service Pump (1,000 gpm capacity)
- One (1) 50 hp Horizontal Split-Case High Service Pump (360 gpm capacity)
- One (1) Auxiliary Power 500 kW generator

Well No. 2 is permitted with the St Johns River Water Management District (SJRWMD) and has the well identification number GRS ID No. 9557. Well No. 2 consists of a 12" casing to a depth of 191' below ground surface, and a total well depth of 334'. The well was drilled in 1964. The water is withdrawn from the Upper Floridan Aquifer. Water is pumped from the well by a *Jacuzzi* 12MSB4 vertical turbine pump powered by a 75 HP motor. The pump is rated at 1,200 gpm.

Well No. 4 is permitted with the St Johns River Water Management District (SJRWMD) and has the well identification number GRS ID No. 421002. Well No. 4 consists of a 12" casing to a depth of 303' below ground surface, and a total well depth of 450'. The well was drilled in 2012. The water is withdrawn from the Upper Floridan Aquifer. Water is pumped from the well by a *Demming* 4700 Series vertical turbine pump powered by a 60 HP motor. The pump is rated at 1,000 gpm.

Water is pumped from these wells to the 0.25-MG CROM ground storage tank which is equipped with a natural draft cascade tray aerator for the removal of hydrogen sulfide. The cascade tray aerator has a capacity of 2,600 gpm. The influent header piping from the ground storage tank (GST) to the horizontal split-case high service pumps is installed above grade at the side of the GST. It should be noted that a portion of the storage volume of the GST is not usable due to the elevations of the GST and high service pumps. The high service pumps are horizontal split-case high service

pumps which require a flooded suction condition on the influent header piping. Because of this condition, water level the GST cannot be pumped below the intake elevation of the header pipe. Therefore, the overall storage capacity of the GST is reduced.

Disinfection of the raw water is accomplished via chlorine gas. The chlorine gas is transferred into the system by a *Hydro Instruments*, 150 lb cylinder feed, simple rotameter system and a 1.5 hp Goulds booster pump. The 150 lb cylinders are stored in a chlorine storage room as well as two scales capable of holding one cylinder each. The system has a 250 ppd capacity. The current chlorine feed rate is 52 ppd.

Dissolved iron is inhibited within the ground water via an Aquamag Iron Sequestration system using a blended phosphate solution. The solution is injected into the finished water distribution piping via Strenner chemical feed pump, Model 45MHP2, at a feed rate of 3 gallons per day. The phosphate solution is stored in 55-gallon storage drum.

Finished water is pumped into the distribution system via four variable speed, horizontal split-case centrifugal high service pumps. The high service pumps are *Crane-Deming Series 5060* pumps. Two (2) of the high service pumps are rated for 2,800 gpm with a 150 hp motor. The third high service pump is rated for 1,000 gpm with a 60 hp motor. The fourth high service pump, or jockey pump, is rated for 360 gpm with a 60 hp motor.

Water pumping rates are controlled by system pressure. As system pressure decreases, pump output increases in order to maintain constant system pressure. Normal operating pressure at this facility is 65 psi.

Plant flows are monitored and recorded with a chart recorder, totalizer and flow indicator. The plant's discharge meter is a 12" Badger Magmeter.

Backup power is provided to the well pumps and high service pump station via a 500 kW emergency generator and automatic transfer switch. The generator is equipped with a 500-gallon, dual wall fuel tank.

The entire facility is connected to a Supervisory Control And Data Acquisition (SCADA) system.

2.1.2 WTP No. 2

WTP No. 2 which is located at the intersection of State Road 19 and County Road 48 and consists of the following components.

- One (1) Raw Water Well
 - Well No. 3 (1,000 gpm capacity)
- One (1) Chlorine Gas system
- One (1) Aquamag Iron Sequestration system
- One (1) 15,000-gallon Hydropneumatic Tank
- One (1) Auxiliary Power 150 kW generator

Well No. 3 is permitted with the St Johns River Water Management District (SJRWMD) and has the well identification number GRS ID No. 9558. Well No. 3 consists of a 14" casing to a depth of 162' below ground surface, and a total well depth of 350'. The well was drilled in 1990. The water is withdrawn from the Upper Floridan Aquifer. Water is pumped from the well by a *Peerless* NB-4 vertical turbine pump powered by a 75 HP motor. The pump is rated at 1,000 gpm.

Disinfection of the raw water is accomplished via chlorine gas. The chlorine gas is transferred into the system by a *Hydro Instruments*, 150 lb cylinder feed, simple rotameter system and a 1.5 hp Goulds centrifugal booster pump. The 150 lb cylinders are stored in a chlorine storage room as well as two scales capable of holding one cylinder each. The system has a 100 ppd capacity. The current chlorine feed rate is 40 ppd.

Dissolved iron is inhibited within the ground water via an Aquamag Iron Sequestration system using a blended phosphate solution. The solution is injected into the finished water distribution piping via Strenner chemical feed pump, Model 45MHP2, at a feed rate of 3 gallons per day. The phosphate solution is stored in 55-gallon storage drum.

Water is pumped from this well to the 15,000-gallon ASME certified hydropneumatic tank. The hydro tank has ON and OFF setpoints of 50 psi and 65 psi, respectively.

Backup power is provided to the well pumps and high service pump station via a 150-kW emergency generator and automatic transfer switch. The generator is equipped with a 500-gallon, dual wall fuel tank.

2.1.3 WTP No. 3

WTP No. 3 will be located on a parcel north and adjacent to the existing WTP No. 2 site. Property for WTP No. 3 was dedicated to the Town by the Lake Hills development. WTP No.2 will be abandoned when WTP No. 3 is placed into operation.

WTP No. 3 is currently in the design phase and is anticipated to consist of the following components.

- Two (2) Raw Water Wells
 - Well No. 5 (1,500 gpm capacity)
 - Well No. 6 (1,500 gpm capacity)
- One (1) Chlorine Gas system
- One (1) Aquamag Iron Sequestration system (if required)
- Two (2) 0.60 MG CROM Ground Storage Tanks with a cascade tray aerator. One (1) tank will be built with the initial plant construction and the second tank will be constructed at a future date.
- Three (3) 75 hp Vertical Turbine High Service Pumps (1,000 gpm capacity, each)
- One (1) 40 hp Vertical Turbine High Service Pump (600 gpm capacity)
- One (1) Auxiliary Power generator

Well No. 5 is permitted with the St Johns River Water Management District (SJRWMD) and has the well identification number GRS ID No. 39899. Well No. 5 consists of a 12" casing to a depth of 750' below ground surface, and a total well depth of 1,061'. The well was drilled in 2024. The water is withdrawn from the Lower Floridan Aquifer. Water will be pumped from the well with a vertical turbine pump powered by a 75 HP motor. The pump will be rated at 1,500 gpm.

Well No. 6 is permitted with the St Johns River Water Management District (SJRWMD) and has the well identification number GRS ID No. 540961. Well No. 6 consists of a 12" casing to a depth of 750' below ground surface, and a total well depth of 1,087'. The well was drilled in 2024. The water will be withdrawn from the Lower Floridan Aquifer. Water will be pumped from the well by a vertical turbine pump powered by a 75 HP motor. The pump will be rated at 1,500 gpm.

2.2 Existing Water Distribution System

The existing potable water distribution system consists of a network of various sizes and materials of pipe ranging from 2-inches diameter to 12-inches diameter. The Town's water system is very limited in capital water mains (i.e. 10 inches in diameter and greater) throughout the distribution system. The majority of the existing network is +40 years old. There are areas where thin-walled PVC pipe was used and subsequently there have been issues with pipe failures in those areas. There is also an area in the northern section of Town that cannot be isolated from the system with valves. Most of the 8-inch and 12-inch piping is relatively new as it was installed in the early and mid-2000's.

Based upon information received from the Town’s Utility Department, there are approximately 20 miles of potable water lines within the Town’s service area. Table 2.2 illustrates the approximate lengths of each diameter water line existing in the Town system as of March, 2024.

Table 2.2 Estimated Lengths of Potable Water Piping (Linear Feet)						
2”	4”	6”	8”	10”	12”	Total
1,675	3,770	70,065	29,230	---	740	105,513

A hydraulic model of the Town’s existing, potable water distribution system was created using the Bentley WaterCAD computer program. System pressures in the model were verified by field conditions of dynamic pressures at the pressure regulating valve (PRV) and control system located at the intersection of Magnolia Avenue and SR 19. Currently the system pressures on the north and south sides of the PRV are 34 psi and 55 psi, respectively.

According to Section 7.3.1 of the Recommended Standards for Water Works, the minimum working pressure in the distribution system should be 35 psi and the normal working pressure should be approximately 60 psi to 80 psi. The model indicates that the average daily operating pressure in the existing system ranges from 23 psi to 84 psi. The lowest pressure in the system is located within the Mission Inn development which is in the northern section of town that is served by WTP No. 2. This is also the highest elevation in the existing system. The highest pressure observed in the model is located near the Boondocks restaurant which is in the southern section of town on Lake Shore Boulevard that is served by WTP No. 1. The WaterCAD analyses for the distribution system is attached as Appendix G.

Section 3

Potable Water Demand Projections

3.0 General

The recommendations contained within this report are based predominantly on the anticipated population growth and subsequent increase in water demand within the Town's Projected Utility Service Area. Water demand projections for the Town of Howey in the Hills were based on the historic water use and an average population per capita.

The existing number of residential, commercial, institutional and municipal connections were obtained from the Town Utility Billing Department. Table 3.1 lists the annual water service connections from 2018 through 2023. A map of the Town's existing Utility Service Area can be found in Figure 1, attached herein. Historically, the residential demand is approximately 36.8% and the combined commercial, institutional and municipal demands are 8.6% of the total average daily demand. Historic irrigation demand, construction and utility usage and unaccounted water are 40.2%, 8.8% and 5.6%, respectively. These ratios have been utilized in the attached projections. There has been no recent growth in commercial, institutional and municipal connections.

Table 3.1 Historic Water Service Connections					
Year	Residential	Non-Residential			
		Irrigation	Commercial	Institutional	Municipal
2018	811	26	25	5	4
2019	879	26	25	5	4
2020	938	17	25	5	4
2021	1,088	17	25	5	4
2022	1,146	22	25	5	4
2023	1,226	24	25	5	4

3.1 Existing Population

Historic population of the Town as reported by the US Census Bureau is presented in Table 3.2. Based on the US Census information over the past 50 years, the average persons per residential unit is 2.11.

Table 3.2 Historic Population per Housing Unit						
	2020	2010	2000	1990	1980	1970
Population	1,643	1,098	956	724	626	466
Housing Units	715	484	450	351	320	239
Population per Housing Unit	2.30	2.27	2.12	2.06	1.96	1.95

Since the Town’s total population and the population served with water are not the same, Table A, attached in the Tables section of this report, illustrates the historic residential and non-residential service connections, population and water demands as indicated by the Town Utility Billing Department and the Town’s WTP Monthly Operating Reports (MOR) for the years 2018-2023. Existing population per housing unit (2.30) was based on the 2020 US Census Bureau information. A summary of the total residential and non-residential service connections and population for 2018 through 2023 is presented in in Table 3.3 below.

Table 3.3 Historic Service Connections and Population						
	2023	2022	2021	2020	2019	2018
Population	2,820	2,636	2,502	2,157	2,022	1,865
Residential Connections	1,226	1,146	1,088	938	879	811
Non-Residential Connections	58	56	51	51	60	60

The historic rate of growth between 2018 and 2023 is approximately 51% with an average annual growth rate of 7.2%.

3.2 Existing Water Usage Rate

Table A illustrates the historic annual water demands for residential and non-residential service connections. Based on billing information provided by the Town’s billing department, the five-year average percentage of water demand for residential connections is 36.8% of the total system demand. Irrigation connections account for 40.2% of the system demand. The percentage for the combined commercial, institutional, and municipal connections is 8.6%. Builder construction and utility usage are approximately 8.8% and unaccounted water

losses (average of 2021 and 2022) is approximately 5.6% of the total system demand. A summary of historic annual average demands is presented in Table 3.4 below.

Table 3.4 Historic Annual Average Demands						
Year	Residential (MGD)	Commercial (MGD)	Irrigation (MGD)	Builder (MGD)	Unaccounted (MGD)	Total (MGD)
2018	0.114	0.027	0.125	0.027	0.017	0.311
2019	0.165	0.039	0.180	0.039	0.025	0.448
2020	0.152	0.036	0.166	0.036	0.023	0.415
2021	0.142	0.033	0.155	0.034	0.022	0.386
2022	0.161	0.038	0.176	0.039	0.025	0.438
2023	0.169	0.040	0.185	0.041	0.026	0.461

Chapter 4 of the Town's Comprehensive Plan lists an overall system demand per capita of 242 gallons per capita per day (gpcd) and a residential use demand of 150.8 gpcd. The Towns, *Water Impact Fee Study*, prepared by B&H Consultants, Inc., and adopted as part of Ordinance No. 2006-003, indicates that the average household consists of 2.48 persons and that the per capita demand is 150 gpcd. This equates to an average daily water demand of 372 gpd per single-family home which is referred to as an Equivalent Residential Unit (ERU).

The historic residential demands per ERU and per capita are presented in Table 3.5 below. A population per ERU of 2.30 (2020 US Census) was used to determine the existing per capita demand. The historic six-year average demand per ERU was determined to be 150 gpd/ERU. The historic six-year average demand per capita was calculated to be 68 gpcd, which is approximately 55% less than the per capita demand of 150 gpcd presented in Ordinance No. 2006-003. The six-year average for overall system demand capacity per ERU was calculated to be 408 gpd/ERU. The average for overall system demand capacity per capita was calculated to be 184 gpcd. This is approximately 24% less than the overall system demand per capita of 242 gpcd listed in the Town's Comprehensive Plan. The reduction in demand could be attributed to new home construction with low-flow fixtures as well conservation efforts established by the Town. Future system demand projections will include a residential demand of 408 gpd/ERU for all existing residential connections.

**Table 3.5
Historic Residential Demand per ERU**

Year	Residential				Demand	
	Demand (MGY)	Demand (MGD)	Connections	Population	Per ERU (gpd/ERU)	Per Capita (gpcd)
2018	41.737	0.114	811	1,865	141	61
2019	60.137	0.165	879	2,022	187	81
2020	55.754	0.152	938	2,157	162	71
2021	51.887	0.142	1,088	2,502	131	57
2022	58.791	0.161	1,146	2,636	141	61
2023	61.856	0.169	1,226	2,820	138	60
Average					150	68

Table B presents the historic water usage billed per service connection type, which were obtained from the Town Utility Billing Department. A summary of Table B is presented in Table 3.6 below.

**Table 3.6
Historic Demand Per Service Connection Type**

Year	Total Billed (MG)	Usage Billed				Annual Average Billed Demand (MGD)
		Residential (MG)	Commercial (MG)	Irrigation (MG)	Builder (MG)	
2019	132.652	58.440	27.902	38.676	7.634	0.363
2020	258.582	100.442	33.190	119.365	5.585	0.708
2021	161.448	74.586	13.924	66.987	5.952	0.442
2022	149.084	58.605	3.534	72.712	14.233	0.408
2023	160.643	60.238	4.327	87.727	8.351	0.440

Table C presents the monthly average daily and monthly maximum daily demands as listed on the Town's MOR's for the years 2019-2023. A summary of the annual average daily demand (AADD) and maximum month daily demand (MMDD) for each well is presented in Table 3.7 below.

**Table 3.7
Historic Annual Average Demands**

Year	AADD			MMDD		
	Well No. 2 (MGD)	Well No. 3 (MGD)	Well No. 4 (MGD)	Well No. 2 (MGD)	Well No. 3 (MGD)	Well No. 4 (MGD)
2019	0.207	0.118	0.123	0.671	0.357	0.367
2020	0.151	0.146	0.117	0.615	0.389	0.335
2021	0.119	0.119	0.148	0.419	0.419	0.580
2022	0.157	0.132	0.149	0.483	0.394	0.458
2023	0.168	0.134	0.158	0.593	0.261	0.350

Table 3.8 below presents the historic annual average daily demands and maximum month daily demands of the Town's water system. The five-year ratio of maximum month daily demand to annual average daily demand is calculated to be approximately 2.0.

**Table 3.8
Historic Annual Average and Maximum Month Daily Demands**

Year	Annual Average Daily Demand (MGD)	Maximum Month Daily Demand (MGD)	Maximum Month Ratio
2019	0.447	0.924	2.10
2020	0.414	0.812	1.95
2021	0.386	0.749	1.94
2022	0.437	0.859	1.97
2023	0.460	0.856	1.85
Total Average			1.96

3.3 Projected Population Growth and Water Usage Demands

A map of the Town's existing Utility Service Area can be found in Figure 1, attached herein. It is anticipated that the majority of the Town's growth within the service area boundary will occur southward to serve properties along the State Road 19 corridor and westward. Growth is also expected northward along the State Road 19 and County Road 48 corridor. Figure 2 shows the proposed residential developments within the Town's service area. The Town's Future Land Use Map is attached as Appendix B.

The following recommendations are based predominantly on the anticipated population growth and subsequent increase in water demand within the Town's Projected Utility Service Area. Water demand projections for the Town of Howey

in the Hills were based on the historic water use and an average population per capita.

3.3.1 Projected Population Growth

US Census data included on the current 2024 CUP list an average household size of 2.46 persons. This is similar to the Towns *Water Impact Fee Study*, prepared by B&H Consultants, Inc., and adopted as part of Ordinance No. 2006-003, indicates that the average household consists of 2.48 persons. Population projections for future growth will be based on the 2.46 persons per household. Figure 2 shows the future residential developments listed in Table D. A summary of the future residential developments and associated population growth as outlined in Table D is presented in Table 3.9 below.

Table 3.9 Planned Future Residential Developments and Population		
Development Name	Equivalent Residential Units	Population
Approved Developments		
Venezia South Townhomes	113	278
Venezia Talichet Phase II (<i>completed</i>)	21	52
Whispering Hills	156	384
Lake Hills (Four Seasons)	571	1,405
The Reserve	728	1,791
Watermark (Simpson Parcel)	225	554
Subtotal	1,814	4,464
Future Developments		
Mission Rise	499	1,228
Thompson Grove (Bouis Property)	272	669
Westminster (Marina)	350	861
Cedar Creek (Daryl Carter)	171	421
Golden Hills (J-5 Equities)	607	1,493
Cypress Point	110	271
Drake Point	530	1,304
Subtotal	2,539	6,247
Total Proposed Residential	4,353	10,708
Total Existing Residential	1,226	2,820
Total Residential	5,579	13,528

There are currently six (6) approved developments within the Town's service area. Talichet Phase II is recently completed. It is expected that

these developments will bring an additional 1,814 residential units with an estimated population of 4,464 into the Town’s service area. There are seven (7) other areas scheduled for future developments within the Town’s service area. It is expected that these developments will bring an additional 2,539 residential units with an estimated population of 6,247 into the Town’s service area. Based on approved and anticipated future growth, it is anticipated that 4,353 residential units with a population of 10,708 will be added to the Town’s service area. It should be noted that the Cedar Creek PUD and the Drake Point PUD properties are not contiguous to the Town limits and will be approved and built under the Lake County jurisdiction, but are anticipated to be provided service by the Town’s potable water system.

It is anticipated that the Town will also have non-residential growth within its service area. Table E lists the anticipated non-residential developments. There are currently three (3) approved commercial and two (2) approved institutional developments within the Town’s service area. A summary of the future non-residential development growth as outlined in Table E is presented in Table 3.10 below.

Table 3.10 Planned Future Residential Developments and Population	
Development Name	Gross Floor Area (ft ²)
Approved Commercial Developments	
Venezia South	85,000
Lake Hills (Four Seasons)	150,000
The Reserve	300,000
Total Commercial	535,000
Approved Institutional Developments	
Lake Hills (Four Seasons)	176,000
The Reserve	205,000
Total Institutional	381,000

3.3.2 Projected Water Usage Demands

Chapter 4 of the Town’s Comprehensive Plan lists an overall system demand per capita of 242 gpcd and a residential use demand of 150.8 gpcd. However, Land Development Code (LDC) Section 171.25 establishes irrigation design standards for new residential, commercial and industrial systems. The LDC also imposes regulations for landscape irrigation systems in order to limit the use of potable water for irrigation. All future developments will have to find an alternative means of providing irrigation water with the Town only providing potable water for indoor uses.

The projected water demands for the Town's service area is presented in Tables D and E. Historic annual demand from 2018 through 2023 showed an overall system demand per capita of 184 gpcd (403 gpd per ERU) and an average residential daily demand of 150 gpd per ERU. Average daily water demand for future residential connections is projected forward at 150 gpd/ERU (61 gpcd based on 2.46 persons per household). Water demands for commercial and recreational uses are based on 0.15 gpd/ft² of floor area. Civic and institutional uses are based on 0.25 gpd/ft² of floor area. The maximum daily demand (MDD) condition was calculated using a historic ratio to the average daily demand (ADD) of 2:1. The peak hour demand (PHD) condition was based on an FDEP standard ratio to the average daily demand (ADD) of 4:1. A summary of Tables D and E is presented in Table 3.11 below.

Table 3.11 Planned Future Developments and Demands					
Development	ERUs	Gross Floor Area (ft ²)	Demand		
			ADD (MGD)	MDD (MGD)	PHD (MGD)
Approved Residential Developments					
Venezia South Townhomes	113		0.017	0.034	0.068
Venezia – Talichet Phase II	21		0.003	0.006	0.013
Whispering Hills	156		0.023	0.047	0.094
Lake Hills (Four Seasons)	571		0.086	0.171	0.343
The Reserve	728		0.109	0.218	0.437
Watermark (Simpson Parcel)	225		0.034	0.068	0.135
Subtotal	1,814				
Future Residential Developments					
Mission Rise	499		0.075	0.150	0.299
Thompson Grove (Bouis)	272		0.041	0.082	0.163
Westminster (Marina)	350		0.053	0.105	0.210
Cedar Creek (Daryl Carter)	171		0.026	0.051	0.103
Golden Hills (J-5 Equities)	607		0.091	0.182	0.364
Cypress Point	110		0.017	0.033	0.066
Drake Point	530		0.080	0.159	0.318
Subtotal	2,539				
Total Proposed Residential	4,353		0.653	1.306	2.612
Total Existing Residential	1,226		0.500	1.000	2.001
Total Residential	5,579		1.153	2.306	4.613
Approved Non-Residential Commercial Developments					
Venezia South		85,000	0.013	0.026	0.051
Lake Hills (Four Seasons)		150,000	0.023	0.045	0.090
The Reserve		300,000	0.045	0.090	0.180
Approved Non-Residential Institutional Developments					
Lake Hills (Four Seasons)		176,000	0.044	0.088	0.176
The Reserve		205,000	0.051	0.103	0.205
Total Proposed Non-Residential		916,000	0.176	0.351	0.702
Total Existing Non-Residential			0.040	0.080	0.160
Total Non-Residential			0.216	0.431	0.862
Total			1.369	2.737	5.475

Note: Does not include builder or irrigation demands or unaccounted losses.

Projected residential, commercial and institutional water demands for the City's service area can be seen in Table F for the years 2024 to 2043. The total projected water demands - including irrigation, construction, and unaccounted losses - for the City's service area can be seen in Table G for the years 2024 to 2043. Unaccounted losses were project forwarded at 10% which is the maximum allowable per the Consumptive Use Permit. The projections are based on the assumption that the housing market remains stable and continues to grow and the proposed developments will

reach build-out. A summary of Table F and Table G is presented in Table 3.12 below.

Table 3.12 Projected Annual Water Demands							
Year	Residential	Commercial	Irrigation	Builder	Losses	Total	
						ADD	MDD
2024	0.503	0.040	0.185	0.072	0.082	0.883	1.765
2025	0.512	0.040	0.185	0.073	0.083	0.893	1.786
2026	0.528	0.052	0.185	0.076	0.087	0.928	1.857
2027	0.567	0.064	0.185	0.081	0.092	0.989	1.978
2028	0.623	0.119	0.185	0.092	0.105	1.124	2.247
2029	0.696	0.164	0.185	0.104	0.118	1.267	2.533
2030	0.788	0.164	0.185	0.113	0.128	1.379	2.757
2031	0.883	0.215	0.185	0.128	0.145	1.556	3.111
2032	0.955	0.215	0.185	0.135	0.153	1.643	3.286
2033	1.038	0.215	0.185	0.143	0.162	1.743	3.486
2034	1.080	0.215	0.185	0.147	0.167	1.794	3.589
2035	1.112	0.215	0.185	0.150	0.171	1.834	3.667
2036	1.138	0.215	0.185	0.153	0.174	1.865	3.731
2037	1.153	0.215	0.185	0.154	0.176	1.833	3.766
2038	1.153	0.215	0.185	0.000	0.176	1.729	3.458
2039	1.153	0.215	0.185	0.000	0.176	1.729	3.458
2040	1.153	0.215	0.185	0.000	0.176	1.729	3.458
2041	1.153	0.215	0.185	0.000	0.176	1.729	3.458
2042	1.153	0.215	0.185	0.000	0.176	1.729	3.458
2043	1.153	0.215	0.185	0.000	0.176	1.729	3.458
Total	1.153	0.215	0.185		0.176	1.729	3.458

Based on approved and anticipated future growth, it is anticipated that 4,353 residential units with a population of 10,708 will be added to the Town's service area. The projected total system water demand is 1.729 MGD based on an annual average daily demand (AADD) and 3.458 MGD based on a maximum daily demand (MDD). It is anticipated that the service area will reach build out by 2038.

Due to the ever-changing nature of the economy and its impact on growth rates and costs of construction, it is recommended that this report be updated approximately every five years in order to ensure that sufficient funds are being collected to pay for water system improvements.

3.4 Alternative Water Supply

The Town does not own or operate a wastewater treatment facility. Wastewater treatment throughout the older section of town is accomplished via individual, on-site septic systems. The Town currently has an interlocal agreement with the Central Lake Community Development District (CDD) [Mission Inn] for wastewater treatment. However, the treatment facility has limited capacity and only serves the *Lake Hills School*, the *Venezia South* development and the future *The Reserve* development. The CDD's Mission Inn Wastewater Treatment Plant (WWTP) is not capable of producing reclaimed water and the Town currently does not have the infrastructure available for a reclaimed water system.

There are five proposed developments whose property currently has an active CUP for citrus grove irrigation. There is a potential to modify the CUPs for residential and non-residential irrigation systems for their respective development. The CUPs are outlined in Table 3.13 below.

Table 3.13 Existing CUPs for Development Irrigation					
Development	CUP No.	Exp. Date	Source	Permitted Withdraw (MGY)	Withdraw (MGD)
Lake Hills	2664-7	05/24/2041	Lake Harris	60.30	0.165
Thompson Grove	135453-2	06/09/2026	Ltl Lake Harris	30.02	0.082
Drake Point	2666-4	11/24/2040	Lake Harris	38.41	0.105
			Upper Floridan	9.6	0.026
The Reserve	2791-5	03/07/2027	Upper Floridan	59.43	0.163
Watermark	2571-5	01/27/41	Upper Floridan	45.61	0.125

According to the current CUP, the Town is proposing a requirement for stormwater reuse to the extent economically, technically, and environmentally feasible for all new developments. The generated surface water will be available for landscape irrigation purposes for the new construction and proposed developments.

Section 4

Regulatory Compliance

4.1 SJRWMD Consumptive Use Permit

Raw groundwater withdrawals for the production of potable water are regulated by the St. John's River Water Management District through the issuance of a Consumptive Use Permit (CUP). The Town of Howey in the Hills was issued CUP Number 2596-9 on March 12, 2024, with an expiration date of March 12, 2029. The CUP is attached herein as Appendix B.

4.1.1 Ground Water Withdrawals

Maximum annual groundwater withdrawals for potable water from the Town's five (5) production wells as a combined total are stated within the CUP. The combined total includes water usage for households, commercial/industrial, urban landscape irrigation, water utility and unaccounted water. Total allowable ground water withdrawals must not exceed either 328.5 million gallons per year or 0.90 million gallons per day based on an annual average. A summary of the Town's historic withdraws and the CUP limitations is presented in the Table 4.1 below.

Table 4.1 Historic Water Withdraws (2018-2023)				
Year	Annual Withdraw (MGY)	CUP Limit (MGY)	Annual Average Daily Withdraw (MGD)	CUP Limit (MGD)
2018	113.4	328.5	0.311	0.900
2019	163.4	328.5	0.447	0.900
2020	151.5	328.5	0.414	0.900
2021	141.0	328.5	0.386	0.900
2022	159.8	328.5	0.437	0.900
2023	168.1	328.5	0.460	0.900

Based on the historic maximum water withdraw, the Town's is operating at approximately 51.2% of its CUP limit for annual withdraw and its CUP limit for annual average daily flow. It is anticipated that the Town will reach its CUP withdraw limits by year 2029, based the future projections shown on Table G.

4.1.2 Water Loss

As a condition of the CUP a water loss audit is required every three years to show that water loss in the distribution system is less than 10 percent of the groundwater withdrawal for the previous year. Observed water loss greater than the 10 percent limit requires the completion of a meter survey to ensure water is being properly metered. Unmetered water uses including fire hydrant flushing, water main breaks, allowable water main losses, and water used in firefighting are not considered water loss. The most recent water loss audit completed by the Town for the SJRWMD in 2020, attached herein as Appendix D, showed water loss of approximately 12.9 percent, which exceeds the allowable water loss requirements of the permit. In order to remain in compliance with the requirements of the CUP, the Town began an investigation into the excessive water loss. As a result of the investigation, the Town's water audits for 2021 and 2022 showed a loss of 6.4 percent and 4.9 percent, respectively. The Town's water audit for 2023 is currently in process.

4.2 FDEP Water Treatment Plant Permit

The Florida Department of Environmental Protection is responsible for issuing permits related to the construction of water treatment facilities and distribution systems. Unlike the CUP issued by the SJRWMD, these permits do not expire. Also, while the SJRWMD CUP limits are based on annual average groundwater withdrawals, FDEP Operating Permits for Water Treatment Facilities provide limits on the amount of potable water that may be produced in a single day, providing a capacity in terms of maximum day demand.

4.2.1 Water Treatment Plant No. 1

WTP No. 1 has a permitted capacity of 1.80 MGD. The plant consists of two ground water wells with a combined capacity of 3.168 MGD and one 0.25 MG ground storage tank equipped with cascade tray aeration. The plant also includes four horizontal split-case high service pumps with a combined capacity of 10.022 MGD, Aquamag iron sequestration system, chlorine gas injection system, and a 500-kW auxiliary generator. The permitted capacity of this plant is limited by its storage capacity.

4.2.2 Water Treatment Plant No. 2

WTP No. 2 has a permitted capacity of 0.72 MGD. The plant consists of a 1.440 MGD capacity ground water well, a 15,000-gallon hydro-pneumatic tank, Aquamag iron sequestration system, chlorine injection system, and a 150-kW auxiliary generator. The 15,000-gallon hydro-pneumatic tank which is not permitted to be counted towards the required system storage

for larger system. The permitted capacity of this plant is limited by its storage capacity. It is noted that WTP No. 2 will be decommissioned when the new WTP No. 3 is placed into service.

4.2.3 Water Treatment Plant No. 3

WTP No. 3 is currently in design phase and has not yet been permitted by the FDEP. It is anticipated that WTP No. 3 will have at a minimum, a permitted capacity of 2.58 MGD.

4.2.4 Total FDEP Permitted WTP Capacity

The current, combined permitted capacity of WTP No. 1 and WTP No. 2 is 2.52 MGD. The permitted capacity of the combined water treatment plants is limited by its storage capacity. Chapter 62-555.320, F.A.C., states that the total finished-water storage capacity connected to a water system shall at least equal 25% of the system's maximum-day water demand, excluding any design fire-flow demand. Currently, the finished-water storage for the entire system is currently being accomplished with one 0.25-million-gallon ground storage tank and one 15,000-gallon hydro-pneumatic tank. The 15,000-gallon hydro-pneumatic tank at WTP No. 2 may not be counted as finished water storage for large water systems only ground or elevated storage may be counted. This provides a total storage capacity for the system of 250,000 gallons and equates to a maximum-day demand of 1.0 MGD. A summary of the Town's historic maximum daily demands and the FDEP permit limitations is presented in the Table 4.2 below.

Year	Maximum Daily Demand (MGD)	FDEP Permit Capacity (MGD)	Rated Capacity Based on Storage (MGD)
2018	0.631	2.52	1.00
2019	0.924	2.52	1.00
2020	0.812	2.52	1.00
2021	0.749	2.52	1.00
2022	0.859	2.52	1.00
2023	0.856	2.52	1.00

It is anticipated that the Town will reach its rated capacity based on finished water storage limitations by year 2026, based the future projections shown on Table G.

The permitted capacity of WTP No. 3 will be 2.58 MGD. The combination of the rated capacities of WTP No. 1 and WTP No. 3 will be 4.38 MGD, which is approximately 25% more than the projected maximum daily demand of 3.458 MGD anticipated for year 2038. The initial phase of WTP No. 3 will include the construction of one (1) 600,000-gallon ground storage tank. A second 600,000-gallon tank will be constructed at a future date. The Town's potable water system will no longer be limited by storage capacity with the addition of WTP No. 3.

Section 5

Potable Water System Evaluation

5.0 General

The Town of Howey in the Hills water system consists of two water treatment plants, WTP No. 1, WTP No. 2, and approximately 20 miles of potable water lines. As of December 2023, the water treatment plants and distribution system served 2,555 metered connections which consisted of 1,226 residential, 34 commercial and institutional, and 26 irrigation connections.

5.1 Evaluation of Existing System

Evaluations of the Town's existing water treatment plant and distribution system are presented below. The evaluations are based on plant flow rates, system demands, and field observations.

5.1.1 WTP No. 1

The rated design capacity of this facility is 1.80 MGD. The permitted capacity of this plant is limited by its storage capacity. The plant consists of the following:

- One (1) 1,000 gpm production well - Well No. 2
- One (1) 1,200 gpm production well - Well No. 4
- One (1) Aquamag iron sequestration system
- One (1) Gas Chlorination system
- One (1) 250,000-gallon Ground Storage Tank with a 2,600 gpm Cascade Tray Aerator
- Two (2) 2,800 gpm, 150-hp Horizontal Split-Case High Service Pumps with variable speed drives
- One (1) 1,000 gpm, 60-hp Horizontal Split-Case High Service Pump with variable speed drive
- One (1) 360 gpm, 50-hp *jockey* Horizontal Split-Case High Service Pump with a variable speed drive
- One (1) 500 kVA auxiliary power generator
- One (1) SCADA monitoring and control system

The influent header piping from the ground storage tank (GST) to the horizontal split-case high service pumps is installed above grade at the side of the GST. The horizontal split-case high service pumps require a flooded suction condition on the influent header piping. Because of this condition,

water level the GST cannot be pumped below the intake elevation of the header pipe. Therefore, the overall storage capacity of the GST is reduced.

5.1.2 WTP No. 2

The rated design capacity of this facility is 0.72 MGD. The permitted capacity of this plant is limited by its storage capacity. The plant consists of the following:

- One (1) 1,000 gpm production well - Well No. 3
- One (1) Aquamag iron sequestration system
- One (1) Gas Chlorination system
- One (1) 15,000-gallon Hydro-pneumatic Tank
- One (1) 150 kW auxiliary power generator

The design of Water Treatment Plant No. 2 included a hydro-pneumatic tank. Chapter 62-555.320(20), F.A.C., states that new hydro-pneumatic tanks shall be designed and constructed in accordance with Section 7.2 in *Recommended Standards for Water Works (RSWW)*. Section 7.2 in RSWW states, “*Hydro-pneumatic tanks, when provided as the only storage facility, are acceptable only in very small water systems. When serving more than 150 living units, ground or elevated storage designed in accordance with Section 7.0.1 should be provided. Pressure tank storage is not to be considered for fire protection purposes.*”

Chapter 62-555.320, F.A.C., states that the total finished-water storage capacity connected to a water system shall at least equal 25% of the system’s maximum-day water demand, excluding any design fire-flow demand. Currently, the finished-water storage for the entire system is currently being accomplished with one 0.25-million-gallon ground storage tank and one 15,000-gallon hydro-pneumatic tank. The 15,000-gallon hydro-pneumatic tank at WTP No. 2 may not be counted as finished water storage for large water systems only ground or elevated storage may be counted. This provides a total storage capacity for the system of 250,000 gallons and equates to a maximum-day demand of 1.0 MGD.

WTP No. 2 is located on property owned by the FDOT and is leased to the Town. The lease agreement between the Town and the FDOT expires on October 29, 2028. The least extension is anticipated to expire and will not be renewed due to the FDOT’s plans to expand the intersection of State Road 19 and County Road 48 with the construction of a round-about.

5.1.3 Potable Water Distribution System

There are approximately 20 miles of potable water lines within the Town's service area. The existing potable water distribution system consists of various sizes and materials of pipe ranging from 2-inches diameter to 12-inches diameter. The Town's water system is very limited in capital water mains (i.e. 10 inches in diameter and greater) throughout the distribution system. Most of the 8-inch and 12-inch piping is relatively new as it was installed in the early and mid-2000's. The majority of the existing network is +40 years old. There are areas where thin-walled PVC pipe was used and subsequently there have been issues with pipe failures in those areas. There is also an area in the northern section of Town that cannot be isolated from the system with valves.

The Town's water system is currently operated as two separate systems (north and south) due to elevation differences. The north system is served by Water Treatment Plant (WTP) No. 2 and the south system is served by WTP No. 1. The systems are isolated via a pressure regulating valve (PRV) and control system located at the intersection of Magnolia Avenue and SR 19. Currently the system pressures on the north and south sides of the pressure regulating valve are 34 psi and 55 psi, respectively. The PRV is intended to open when plant pressure at either facility drops below their respective operating pressure set point. Current setpoints are 52 psi on the WTP No. 1 side of the valve and 32 psi on the WTP No. 2 side of the valve.

5.2 Summary of Recommended Improvements

Several upgrades to the Town's Capital Water System are necessary in order to ensure the ability to provide adequate water service and fire protection through buildout of the projected Utility Service Area. Additions to the Town's distribution system will be necessary to further loop the system and to provide water service to areas located at the periphery of the existing distribution system.

It should be noted that material and labor costs have increased significantly since the previous Water Master Plan was completed in 2018. It is recommended that the improvements listed here in be used by the Town's rate consultant to update the Water Impact Fee Report and assess increasing impact fees in order to ensure that sufficient funding is available for future improvements.

A summary of these improvements is provided below.

5.2.1 WTP No. 1

Recommendations to the Town's existing water treatment plant are presented below.

Replace the existing horizontal split-case high service pump station with a vertical turbine high service pump station. The proposed vertical turbine pumps will be can-mounted with an intake header pipe install below the ground storage tank floor in order to have full use of the tank's storage capacity. The estimated construction cost for recommended WTP No. 1 improvements is presented in Table 5.1 below.

Table 5.1 Estimated Construction Cost for WTP No. 1 Improvements	
Vertical Turbine Pumps and Cans	\$ 340,000.00
Yard Piping	\$ 85,000.00
Electrical, I&C and SCADA Improvements	\$ 150,000.00
Demolish Existing HSP Pump Station	\$ 100,000.00
Subtotal	\$ 675,000.00
Payment/Performance Bond (5%)	\$ 28,750.00
Contract Administration (3%)	\$ 17,250.00
Engineering/Surveying/Construction Admin. (15%)	\$ 86,250.00
Contingency (15%)	\$ 86,250.00
Total	\$ 931,500.00

5.2.2 WTP No. 2

Recommendations to the Town's existing water treatment plant are presented below. The estimated construction cost for recommended WTP No. 2 demolition is presented in Table 5.2 below.

- No recommendations to this plant are proposed as this facility is schedule to be decommissioned.

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**Table 5.2
Estimated Construction Cost for WTP No. 2 Demolition**

Well No. 3 Abandonment	\$ 60,000.00
Geotechnical Engineer Support	\$ 10,000.00
Building, Tank and Equipment Removal	\$ 25,000.00
Subtotal	\$ 95,000.00
Contingency (15%)	\$ 14,250.00
Total	\$ 109,250.00

5.2.3 WTP No. 3

WTP No. 3 is currently in design phase and has not yet been permitted by the FDEP. It is anticipated that WTP No. 3 will have at a minimum, a permitted capacity of 2.58 MGD. This facility will replace WTP No. 2. WTP No. 3 is anticipated to consist of the following components.

- Two (2) Raw Water Wells
 - Well No. 5 (1,500 gpm capacity)
 - Well No. 6 (1,500 gpm capacity)
- One (1) Chlorine Gas system
- Two (2) 0.60 MG CROM Ground Storage Tank with a cascade tray aerator
- Three (3) 75 hp Vertical Turbine High Service Pumps (1,000 gpm capacity, each)
- One (1) 40 hp Vertical Turbine High Service Pump (600 gpm capacity)
- One (1) Auxiliary Power generator

Construction of the treatment plant is to occur in two (2) phases. The first phase will consist of the two well pumps, high service pumps, chlorination system, pump house building, auxiliary generator and one ground storage tank. Phase II will consist of the construction of the second ground storage tank. It should be noted that the tank foundation earthwork and piping to the second tank will be installed during the Phase I construction. The total projected cost for WTP No. 3 is listed in Table I. The estimated construction cost for each phase of the recommended WTP No. 3 improvements is presented in Table 5.3 below.

Table 5.3
Estimated Construction Cost for WTP No. 3

Phase I	\$ 7,249,000.00
Phase II	\$ 1,254,000.00
Total	\$ 8,503,000.00

5.2.4 Water Distribution System

The Town's water system is currently operated as two separate systems (north and south) due to elevation differences. Much of the future growth into the Town is anticipated in the southern and western section of the service area. WTP No. 1 does not have the storage supply capacity required to accommodate the future growth. The main water distribution piping between the existing treatment plants is 8-inch piping. The systems are isolated via a pressure regulating valve (PRV) and control system located at the intersection of Magnolia Avenue and SR 19. The 8-inch piping and PRV and referred to herein as the "existing interconnect", for purposes of this report and hydraulic modeling. The existing interconnect limits the Town's ability to provide redundancy for treatment, pumping and storage supply.

The Town's hydraulic model was modified to include potential scenarios that expand the Town's capital distribution system in order to accommodate future growth and associated demands. The WaterCAD scenarios for the future growth were created using maximum daily demands. The results of the WaterCAD analysis are attached as Appendix G. Fire flow demands were based on 1,000 gpm for single-family residential and 1,500 gpm for multi-family residential per the Town's land development code. The fire flow demands for the system model were set up in the high elevation points of the northern section and southern section of the service area. The Mission Inn CDD (1,500 gpd) was selected for the for the northern region and the proposed Watermark PUD (1,000 gpd) for the southern section. The hydraulic model also established a 50-psi set point for the PRV. A summary of results is presented in Table H.

Multiple scenarios were created with the existing 8-inch interconnect piping and a proposed 12-inch interconnect piping. The goal was to determine minimum and maximum system pressures at service area build-out under the following conditions.

- Average Daily Demand
- Maximum Daily Demand
- Maximum Daily Demand with fire flow demand in the north
- Maximum Daily Demand with fire flow demand in the south
- Maximum Daily Demand with WTP No. 1 Offline
- Maximum Daily Demand with WTP No. 1 Offline and fire flow demand in the north
- Maximum Daily Demand with WTP No. 1 Offline and fire flow demand in the south
- Maximum Daily Demand with WTP No. 3 Offline
- Maximum Daily Demand with WTP No. 3 Offline and fire flow demand in the north
- Maximum Daily Demand with WTP No. 3 Offline and fire flow demand in the south

Based on the WaterCAD hydraulic modeling, under the existing 8-inch interconnection the Town will have adverse issues with their distribution system in the event WTP No. 1 is offline during a fire situation in either the northern or southern section of Town. This will create negative (vacuum) pressures potentially collapsing the distribution piping. There were also instances with scenario results higher than the recommended 85 psi. This would require the installation of in-line pressure reducing valves (PRVs) in the system of individual residential lot PRVs. Based upon these results, it will be necessary to install a larger 12-inch interconnect from the new WTP No. 3 south through town to Central Avenue in order to satisfy future demands.

Based on the WaterCAD hydraulic modeling, the proposed 12-inch interconnection will provide the Town the ability to balance the “two” systems and operate the two systems as one system with both WTP No. 1 and WTP No. 3 providing the pump flows from its HSPs. The proposed interconnect will allow the system to meet system demand and pressure requirements with fire flow demands and either treatment plant offline.

A summary of scenarios and pressure results is presented in Table 5.4 below.

**Table 5.4
Summary of WaterCAD Analysis**

Scenario Title	Fire Flow Demand (gpm)	System Pressure Minimum (psi)	System Pressure Maximum (psi)
Existing Interconnect			
Ave Day – Existing Interconnect	N/A	37	79
Max Day – Existing Interconnect	N/A	37	79
Max Day – Ex Interconnect + Fire (North)	1,500	36	97
Max Day – Ex Interconnect + Fire (South)	1,000	34	79
Max Day – Ex Interconnect – WTP No.1 offline	N/A	28	103
Max Day – Ex Inter – WTP No.1 offline + Fire (N)	1,500	(-63)	77
Max Day – Ex Inter – WTP No.1 offline + Fire (S)	1,500	(-100)	77
Max Day – Ex Inter – WTP No.1 offline + Fire (S)	1,000	(-43)	93
Max Day – Ex Interconnect – WTP No.3 offline	N/A	39	82
Max Day – Ex Inter – WTP No.3 offline + Fire (N)	1,500	16	85
Max Day – Ex Inter – WTP No.3 offline + Fire (S)	1,000	38	81
Proposed Interconnect			
Max Day – Proposed Interconnect	N/A	37	79
Max Day – Prop Inter – Ex Demand Condition	N/A	40	79
Max Day – Prop Interconnect + Fire (North)	1,500	37	79
Max Day – Prop Interconnect + Fire (South)	1,000	34	79
Max Day – Prop Inter – WTP No.1 offline	N/A	35	78
Max Day – Prop Inter – WTP No.1 offline + Fire (N)	1,500	29	77
Max Day – Prop Inter – WTP No.1 offline + Fire (S)	1,000	28	82
Max Day – Prop Inter – WTP No.3 offline	N/A	38	80
Max Day – Prop Inter – WTP No.3 offline + Fire (N)	1,500	36	84
Max Day – Prop Inter – WTP No.3 offline + Fire (S)	1,000	35	79

It is anticipated that the capital improvements to the Town's water distribution system will be constructed in phases to meet the demand needs of planned future developments throughout the service area. Table F provides an estimate of the annual growth projections within the Town's service area over the next 20 years. It should be noted that the annual projections are subject to change due to developers' construction scheduling. This will have an impact on the schedule, and/or order of the proposed capital distribution system improvements phasing. The first phase which consists of the upsized interconnect between the two water treatment plants will be funded by the Town. It is anticipated that additional phases to extend the Town's capital water system "trunklines" to developments will be developer funded through impact fee credits. It is expected that developers will extend capital pipelines from the point of connection to the extents of the development's furthest property boundary along the public right-of-way route.

Phase I (Town Funded)

The first phase includes installing approximately 5,650 linear feet of new 12-inch capital main from the new WTP No. 3 to the existing 12-inch main at the intersection of West Central Avenue and South Florida Avenue. This is referred to herein as the “proposed interconnect.” The route of the proposed capital water main will begin at the proposed commercial roadway accessing the new WTP No. 3 southward along SR 19 to West Cypress Avenue then westward to North Dixie Drive. The route will continue southward along North Dixie Drive to West Central Avenue then westward to the point of connection at South Florida Avenue. This phase will also include replacing the existing 8-inch pressure sustaining valve (PSV) at the intersection of West Magnolia Avenue and SR 19 with a 12-inch PSV and SCADA control upgrades for VFDs of the high service pumps at the water treatment plants. The purpose of this phase is to ensure fire flow demands and associated pressure requirements are maintained within the system. The proposed interconnect will also provide the Town the ability to balance the “two” systems and operate the two systems as one system with both WTP No. 1 and WTP No. 3 providing the pump flows from its HSPs. It is recommended that this phase be constructed concurrently with the construction of WTP No. 3.

The WaterCAD model for this phase was run with the two scenario conditions listed below.

- Current Maximum Daily Demand at current system conditions with WTP No. 3 on-line
- Future Maximum Daily Demand at system build-out conditions with WTP No. 3 on-line

The WaterCAD results for this phase are presented in the Table 5.5 below.

Table 5.5 WaterCAD Analysis Results – Phase I					
High Pressure (psi)	Low Pressure (psi)	Interconnect Pressure (psi)	WTP No.1 (psi)	WTP No. 3 (psi)	MDD (gpm)
Current Condition with WTP No. 3 On-Line					
79	40	50	69	46	720
Buildout Condition					
79	37	50	69	46	2,165

The estimated construction cost for recommended distribution system Phase I improvements is presented in Table 5.6 below.

Table 5.6 Estimated Construction Cost for Phase I	
5,650 LF 12" C900 PVC	\$ 1,130,000.00
12" PSV Interconnect	\$ 45,000.00
SCADA Improvements	\$ 50,000.00
Subtotal	\$ 1,225,000.00
Payment/Performance Bond (5%)	\$ 61,250.00
Contract Administration (3%)	\$ 36,750.00
Engineering/Surveying/Construction Admin. (15%)	\$ 183,750.00
Contingency (15%)	\$ 183,750.00
Total	\$ 1,690,500.00

Phase II

The second phase includes installing approximately 5,350 linear feet of new 12-inch capital main along SR 19 southward from S. Florida Avenue to the proposed entrance of the Watermark Development. This will provide water service to the south side of the Town's service area and will improve service in the existing Venezia development as well as provide service for the proposed commercial developments within the Venezia development. This phase will also provide initial service to the proposed Mission Rise, The Reserve and Watermark PUDs. The estimated construction cost for recommended distribution system Phase II improvements is presented in Table 5.7 below.

Table 5.7 Estimated Construction Cost for Phase II	
5,350 LF 12" C900 PVC	\$ 1,070,000.00
Subtotal	\$ 1,070,000.00
Payment/Performance Bond (5%)	\$ 53,500.00
Contract Administration (3%)	\$ 32,000.00
Engineering/Surveying/Construction Admin. (15%)	\$ 160,500.00
Contingency (15%)	\$ 160,500.00
Total	\$ 1,476,500.00

Phase III

The third phase includes installing approximately 2,300 linear feet of new 12-inch capital main from proposed commercial roadway accessing the new WTP No. 3 northward along CR 48 to San Luis Boulevard. This phase is intended to provide the Lake Hills PUD with a secondary connection point which will provide a redundant loop of their internal distribution system. The estimated construction cost for recommended distribution system Phase III improvements is presented in Table 5.8 below.

Table 5.8 Estimated Construction Cost for Phase III	
2,300 LF 12" C900 PVC	\$ 460,000.00
Subtotal	\$ 460,000.00
Payment/Performance Bond (5%)	\$ 23,000.00
Contract Administration (3%)	\$ 13,750.00
Engineering/Surveying/Construction Admin. (15%)	\$ 69,000.00
Contingency (15%)	\$ 69,000.00
Total	\$ 634,750.00

Phase IV

The Phase IV includes installing approximately 5,320 linear feet of new 12-inch capital main along W. Central Avenue/No. 2 Road westward from WTP No. 1 to Silverwood Road. This phase is intended to provide the Mission Rise PUD and The Reserve PUD with a secondary connection point which will provide a redundant loop of their internal distribution system. The estimated construction cost for recommended distribution system Phase IV improvements is presented in Table 5.9 below.

Table 5.9 Estimated Construction Cost for Phase IV	
5,350 LF 12" C900 PVC	\$ 1,064,000.00
Subtotal	\$ 1,064,000.00
Payment/Performance Bond (5%)	\$ 53,250.00
Contract Administration (3%)	\$ 32,000.00
Engineering/Surveying/Construction Admin. (15%)	\$ 159,500.00
Contingency (15%)	\$ 159,500.00
Total	\$ 1,468,250.00

Phase V

The fifth phase includes installing approximately 4,170 linear feet of new 12-inch capital main along SR 19 eastward from CR 48 to the eastern most intersection of Savage Circle. This phase is intended to provide the Lake Hills PUD with a third connection point which will provide additional redundancy looping of their internal distribution system. This phase will also provide service to the proposed Thompson Grove PUD, Westminster PUD and the existing Cypress Point development. The estimated construction cost for recommended distribution system Phase V improvements is presented in Table 5.10 below.

Table 5.10 Estimated Construction Cost for Phase V	
4,170 LF 12" C900 PVC	\$ 834,000.00
Subtotal	\$ 834,000.00
Payment/Performance Bond (5%)	\$ 41,750.00
Contract Administration (3%)	\$ 25,000.00
Engineering/Surveying/Construction Admin. (15%)	\$ 125,000.00
Contingency (15%)	\$ 125,000.00
Total	\$ 1,150,750.00

Phase VI

Phase VI includes installing approximately 3,280 linear feet of new 12-inch capital main along W. Central Avenue/No. 2 Road westward from Silverwood Road to the proposed entrance of the Cedar Creek PUD. This phase is intended to provide service to the Cedar Creek. The estimated construction cost for recommended distribution system Phase VI improvements is presented in Table 5.11 below.

Table 5.11 Estimated Construction Cost for Phase VI	
3,820 LF 12" C900 PVC	\$ 764,000.00
Subtotal	\$ 764,000.00
Payment/Performance Bond (5%)	\$ 38,250.00
Contract Administration (3%)	\$ 23,000.00
Engineering/Surveying/Construction Admin. (15%)	\$ 114,500.00
Contingency (15%)	\$ 114,500.00
Total	\$ 1,054,250.00

Phase VII

The seventh phase includes installing approximately 7,450 linear feet of new 12-inch capital main from San Luis Boulevard northward along CR 48 to Lime Avenue. This phase is intended to provide service to the Drake Point PUD. The estimated construction cost for recommended distribution system Phase VII improvements is presented in Table 5.12 below.

Table 5.12 Estimated Construction Cost for Phase VII	
7,450 LF 12" C900 PVC	\$ 1,490,000.00
Subtotal	\$ 1,490,000.00
Payment/Performance Bond (5%)	\$ 74,500.00
Contract Administration (3%)	\$ 44,750.00
Engineering/Surveying/Construction Admin. (15%)	\$ 223,500.00
Contingency (15%)	\$ 223,500.00
Total	\$ 2,056,250.00

Developer Driven (Internal to Development)

The WaterCAD model included sections of the water distribution system within the proposed PUDs to further loop the Town's capital water system. These water mains will be installed along the main boulevard and serve as the main "truckline" for each PUD's water distribution system and will provide additional redundancy looping of their internal distribution system. It is anticipated that these sections of the water system will be developer driven costs.

- *Lake Hills PUD.* It is expected that the Lake Hills PUD will install a 10-inch water main along its internal boulevard from the access points at SR 19 and CR 48. The proposed 10-inch water main will connect to the Town's capital water system at both SR 19 and CR 48.
- *Watermark PUD.* It is expected that the Watermark PUD will install a 10-inch water main along its internal boulevard from the access points at SR 19 and E. Revels Road. The proposed 10-inch water main will connect to the Town's capital water system at both SR 19 and E. Revels Road.
- *Mission Rise PUD.* It is expected that the Mission Rise PUD will install a 10-inch water main along its internal boulevard from the access points

at No. 2 Road and SR 19. The proposed 10-inch water main will connect to the Town's capital water system at both No. 2 Road and SR 19.

- *The Reserve PUD.* It is expected that The Reserve PUD will install a 12-inch water main along its internal boulevard from the access points at No. 2 Road and SR 19. The proposed 12-inch water main will connect to the Town's capital water system at both No. 2 Road and SR 19.

5.3 Summary of Capital Improvement Costs

The estimated cost for the WTP No. 1 improvements is **\$931,500** (Year 2024 dollars). The estimated cost for the WTP No. 3 is **\$8,503,000** (Year 2024 dollars). The estimated cost for the WTP No. 2 decommissioning is **\$109,250** (Year 2024 dollars). The total projected cost for the remaining capital water line improvements to the Town water system is listed in Table J. The estimated cost for the capital water line improvements is **\$9,531,250** (includes PSV interconnect improvements - Year 2024 dollars).

The total projected cost for the Capital Water System improvements is **\$19,075,000**.

Section 6

Construction Cost Estimation Methodology

6.0 Introduction

This section focuses on presenting unit cost data that can aid the Town in preparing cost estimates in the future. The sections below focus on the types of projects that are expected to represent the majority of projects undertaken by the Town during the upcoming five-year capital planning period. Future costs are represented as 2024 dollars. A cost escalation factor to account for inflation and market conditions should be considered in future evaluations.

6.1 Level of Contingency

The planning level unit costs presented in this section are conceptual in nature, and do not account for actual field conditions. These costs may be impacted by factors such as:

- Bypass pumping requirements or limitations in taking equipment out of service;
- Directional drilling or jack and bore construction of pipelines;
- Difficult installation conditions such as tight site constraints high groundwater tables, or the presence of rock;
- Easement, right of way, or land acquisition requirements; and,
- Ecological issues.

It is recommended that a minimum fifteen (15%) percent contingency be applied to all planning level construction cost estimates generated from this evaluation.

6.2 Engineering Services Costs

Engineering services related to the implementation of capital projects were estimated to be fifteen (15%) percent of the total construction cost. General services during construction, including bidding assistance, review of shop drawings, response to requests for information (RFIs), production of record drawings, and general coordination with the contractor were assumed to be five (5%) percent of the total construction cost. The cost estimates for the recommended projects include costs associated with both construction and engineering.

Section 7

Summary and Recommendations

7.0 General

The Town of Howey-in-the-Hills' potable water system includes two water treatment plants, and 20 miles of water main ranging in size from 1-inch to 12-inch. Both water treatment plants are currently in compliance with all FDEP and SJRWMD permit requirements. It should be noted that the planned Lake Hills PUD development will be located adjacent to the CR 48 and SR 19 intersection and would be served primarily by WTP No. 2. However, WTP No. 2 does not currently have the pumping ability or storage capacity to meet the fire flow demand requirements of the proposed PUD. Also, WTP No. 2 was constructed on property leased to the Town by the Florida Department of Transportation (FDOT). The lease agreement between the Town and the FDOT expires on October 29, 2028. There does not appear to be any provisions to extend or renew the lease and, as such, the Lake Hills PUD has provided the Town property for a new WTP No. 3 which is currently in the design phase. It is anticipated that the new WTP No. 3 combined with the existing WTP No. 1 will provide sufficient capacity to meet future growth in the service area for the next twenty years. A summary of the projected future growth in the service area, as well as its impact on potable water demand is presented in Tables F and G.

7.1 Summary

Projected growth for the Town of Howey-in-the-Hills water system is estimated to add 4,353 residential connections, 535,000 square footage of commercial, and 381,000 square footage of institutional. Therefore, as projected for 2044 year-end, the water treatment plants and distribution system are anticipated to provide service for 5,579 metered residential connections. It will be necessary to provide improvements to the Town of Howey-in-the-Hills' Capital Water System in order to sufficiently serve water to this future population. It is estimated that these improvements will have a total cost of approximately **\$19,075,000** in Year 2024 dollars. The total estimated capital cost per year is shown in Table K.

The information found in this report should be utilized by the Town of Howey-in-the-Hills in preparation of an updated Water Impact Fee Report in order to ensure that sufficient funding is available for future improvements.

7.2 Recommendations

Capital Improvements are recommended to enable the Town to continue to provide a reliable supply of potable water as demand accelerates due to future growth. A

total of 10 capital improvements projects with an opinion of probable construction cost of \$23.59 million are recommended to be undertaken over the next 10 years. Implementation of these projects will:

WTP No. 1

- Replace the existing horizontal split-case high service pump station with a can-mounted, VFD driven, vertical turbine high service pump station and associated piping and controls.

WTP No. 2

- Decommission and demolish treatment plant.

WTP No. 3

- Construct a new treatment plant which will consist of the following components.
 - Two (2) Raw Water Wells
 - Well No. 5 (1,500 gpm capacity)
 - Well No. 6 (1,500 gpm capacity)
 - One (1) Chlorine Gas system
 - Two (2) 0.60 MG CROM Ground Storage Tanks each equipped with a cascade tray aerator
 - Three (3) 75 hp Vertical Turbine High Service Pumps (1,000 gpm capacity, each)
 - One (1) 40 hp Vertical Turbine High Service Pump (600 gpm capacity)
 - One (1) Auxiliary Power generator

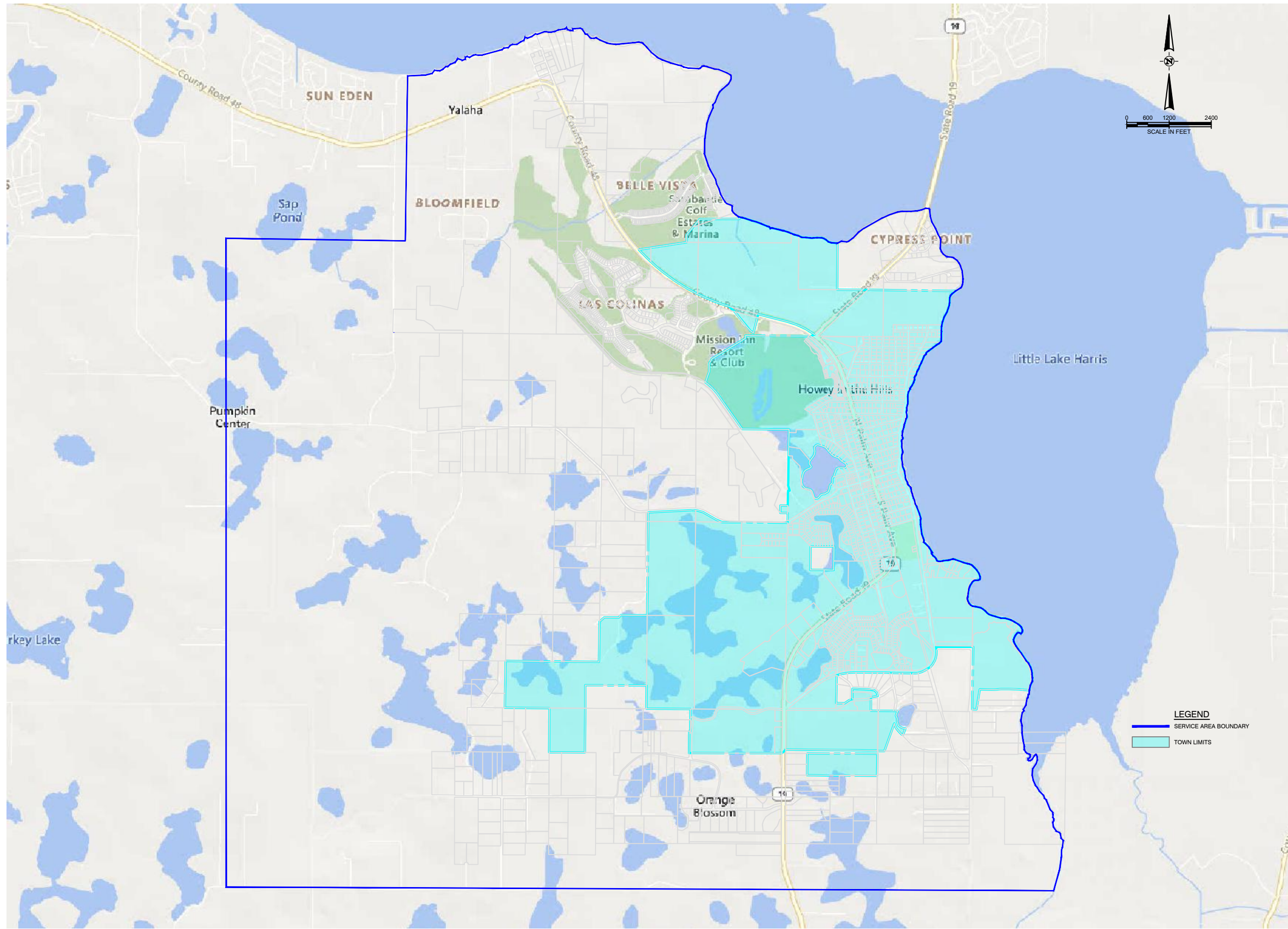
Distribution System

- Install approximately 5,650 linear feet of new 12-inch capital main from the new WTP No. 3 to the existing 12-inch main at the intersection of West Central Avenue and South Florida Avenue.
- Install approximately 5,350 linear feet of new 12-inch capital main along SR 19 southward from S. Florida Avenue to the proposed entrance of the Watermark Development.
- Install approximately 2,300 linear feet of new 12-inch capital main from proposed commercial roadway accessing the new WTP No. 3 northward along CR 48 to San Luis Boulevard.
- Install approximately 5,320 linear feet of new 12-inch capital main along W. Central Avenue/No. 2 Road westward from WTP No. 1 to Silverwood Road.
- Install approximately 4,170 linear feet of new 12-inch capital main along SR 19 eastward from CR 48 to the eastern most intersection of Savage Circle.
- Installing approximately 3,280 linear feet of new 12-inch capital main along W. Central Avenue/No. 2 Road westward from Silverwood Road to the proposed entrance of the Cedar Creek PUD.
- Install approximately 7,450 linear feet of new 12-inch capital main from San Luis Boulevard northward along CR 48 to Lime Avenue.

7.3 Updates to the Water Master Plan Report

Due to the ever-changing nature of the economy and its impact on growth rates and costs of construction, it is recommended that this report be updated approximately every five years in order to ensure that sufficient funds are being collected to pay for water system improvements.

FIGURES

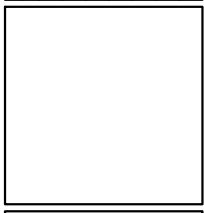


HOWEY-IN-THE-HILLS
 WATER MASTER PLAN UPDATE
 HOWEY-IN-THE-HILLS, FLORIDA



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 900 WEST HIGHLAND AVE
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 TEL: (352) 343-9481

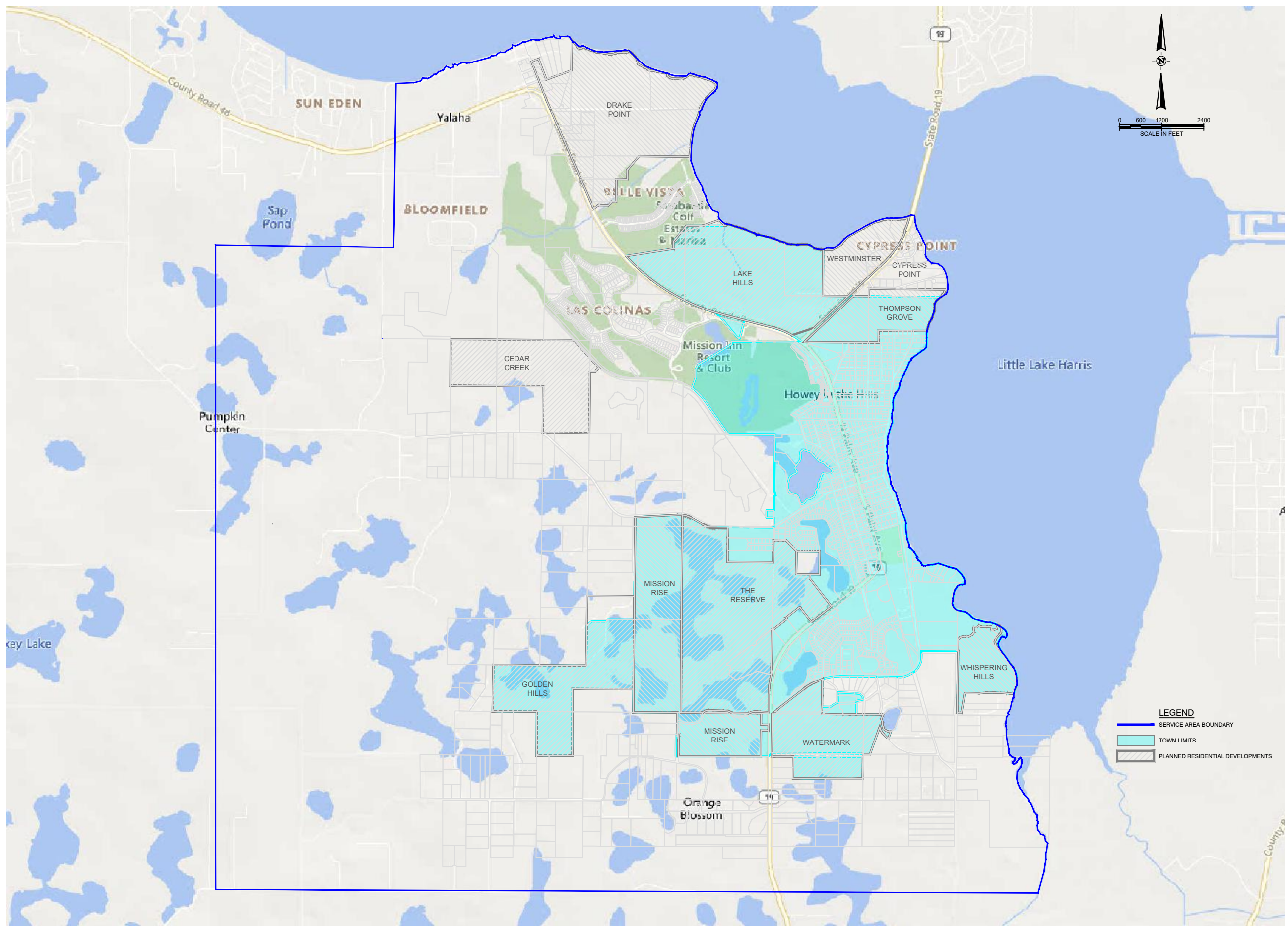
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UTILITY SERVICE AREA MAP

FIGURE 1



HOWEY-IN-THE-HILLS
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 HOWEY-IN-THE-HILLS, FLORIDA

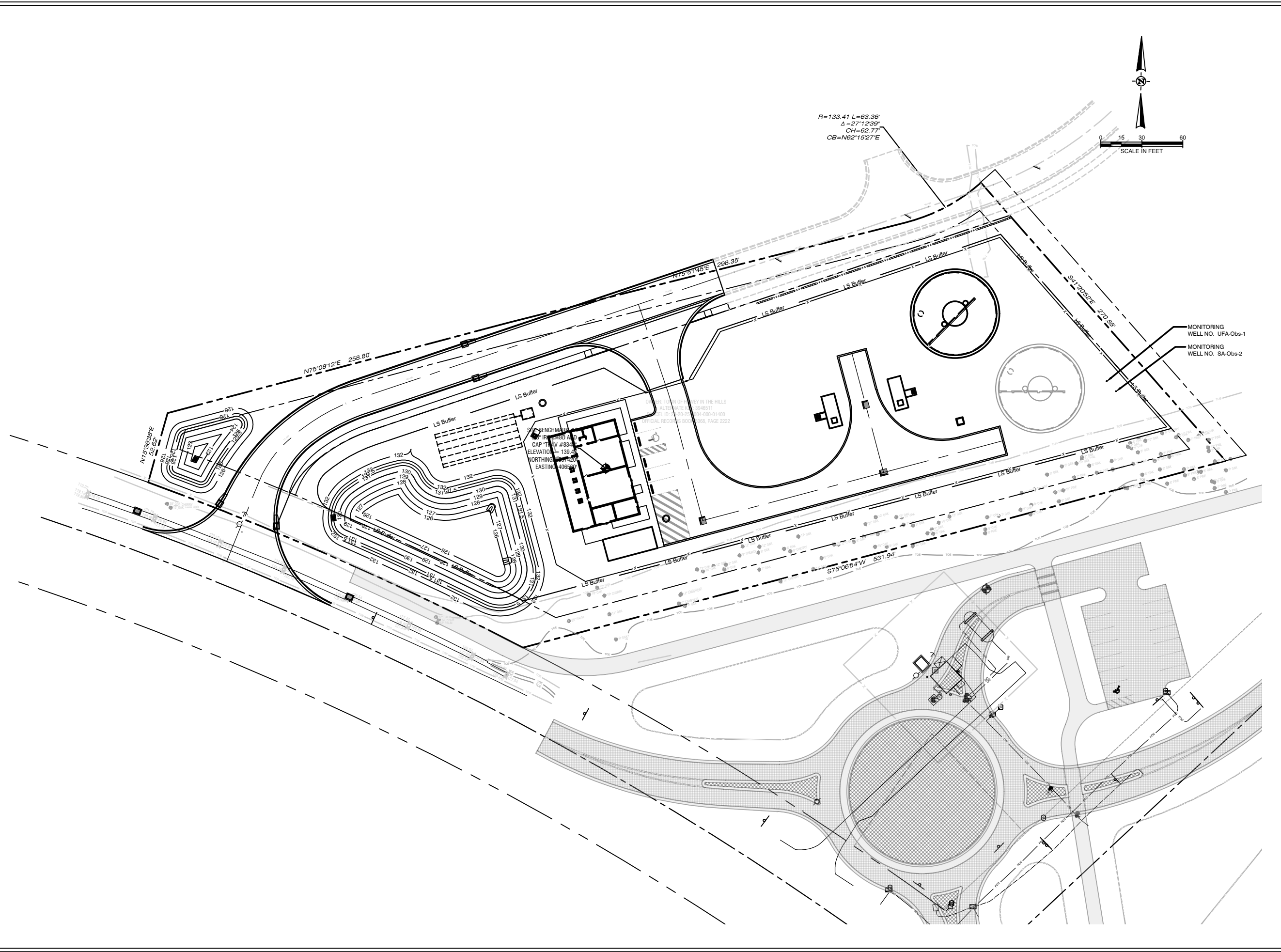


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PLANNED RESIDENTIAL DEVELOPMENTS

FIGURE 2



HOWEY-IN-THE-HILLS
WATER MASTER PLAN UPDATE
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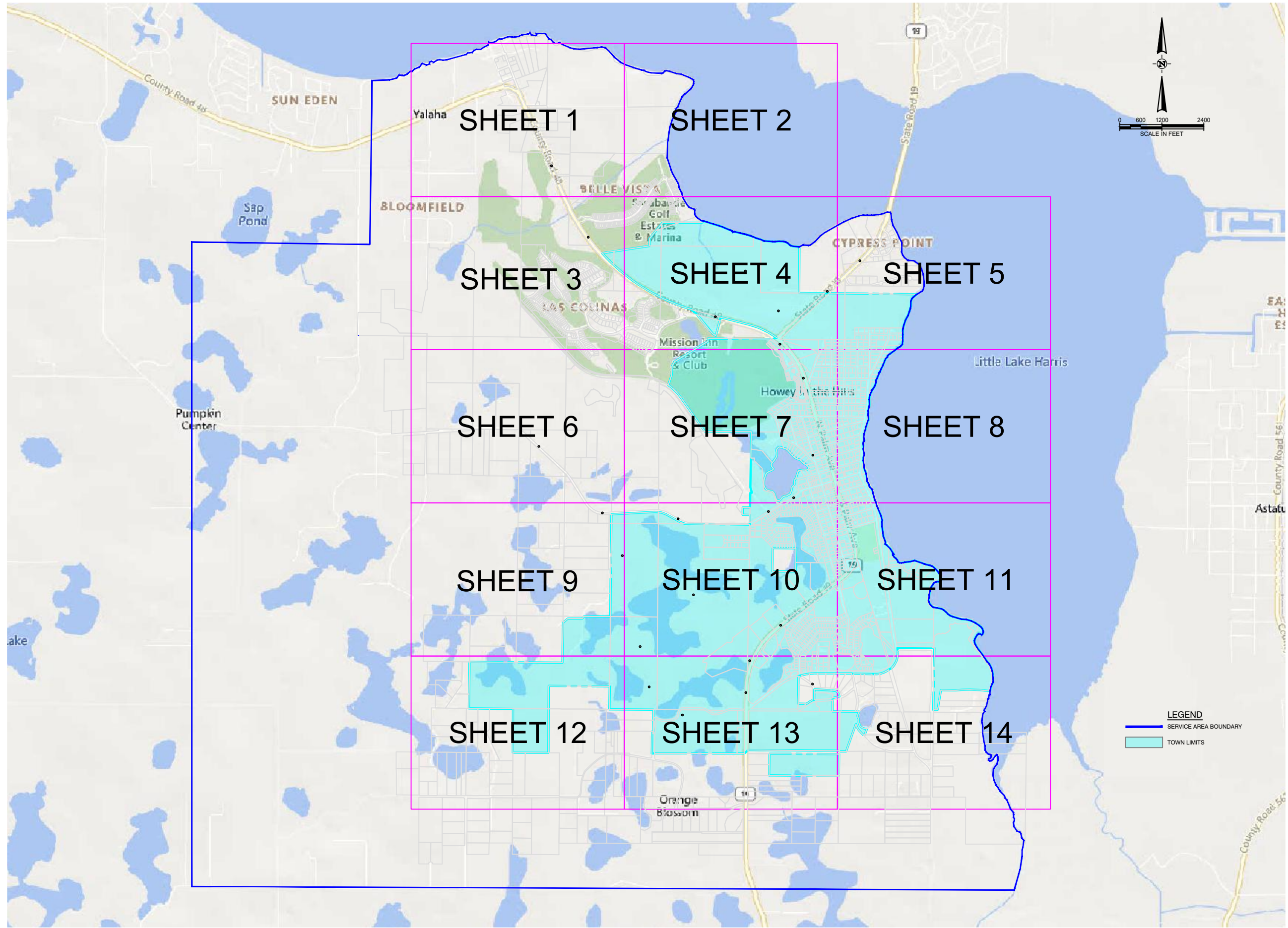


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WTP NO. 3
CAPITAL IMPROVEMENTS

FIGURE 3



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HOWEY-IN-THE-HILLS, FLORIDA



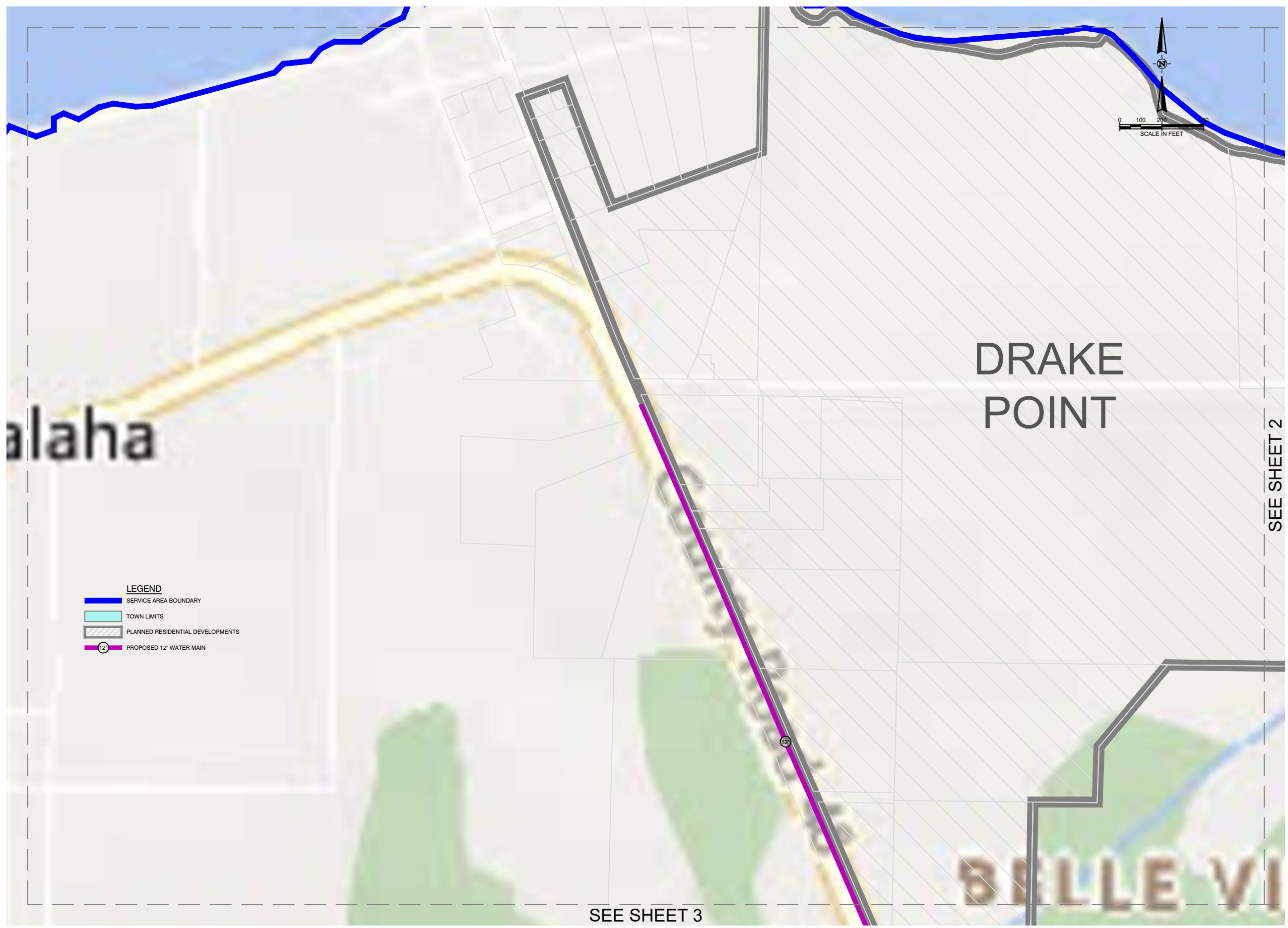
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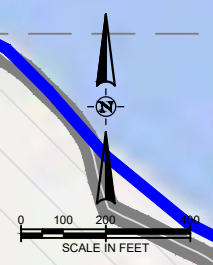
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WATER
DISTRIBUTION
SYSTEM KEY MAP

FIGURE 4



- LEGEND**
- █ SERVICE AREA BOUNDARY
 - █ TOWN LIMITS
 - PLANNED RESIDENTIAL DEVELOPMENTS
 - █ PROPOSED 12" WATER MAIN



HOWEY-IN-THE-HILLS
WATER MASTER PLAN UPDATE
HOWEY-IN-THE-HILLS, FLORIDA



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PROPOSED CAPITAL WATER DISTRIBUTION SYSTEM MAP

SHEET 1



SEE SHEET 1

SEE SHEET 4

HOWEY-IN-THE-HILLS
 WATER MASTER PLAN UPDATE
 HOWEY-IN-THE-HILLS, FLORIDA

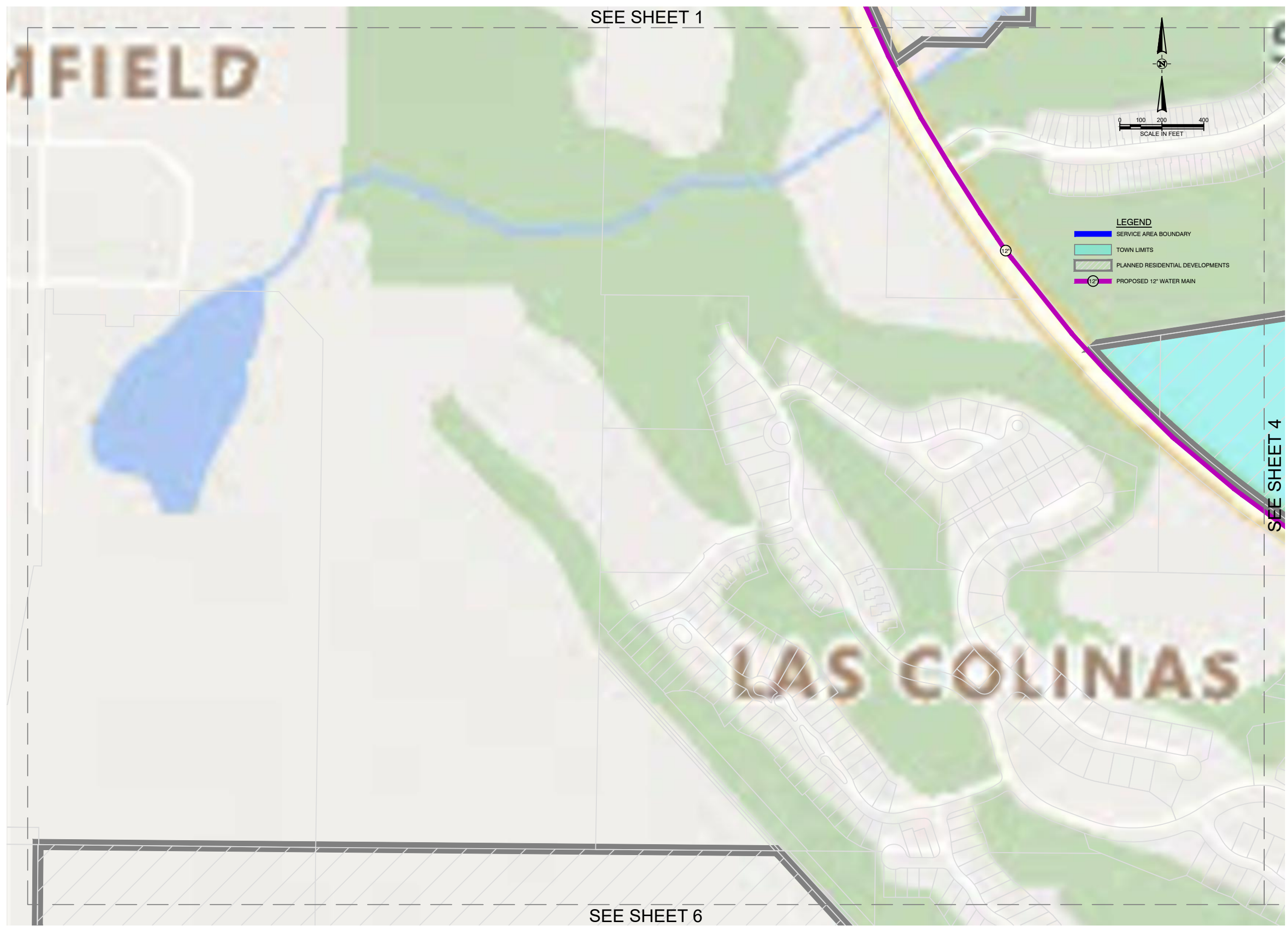


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SHEET 2



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WATER DISTRIBUTION
SYSTEM MAP

SHEET 3



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WATER MASTER PLAN UPDATE
HOWEY-IN-THE-HILLS, FLORIDA



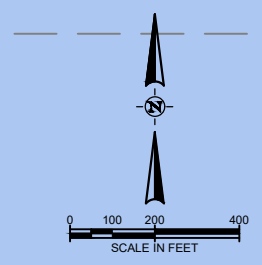
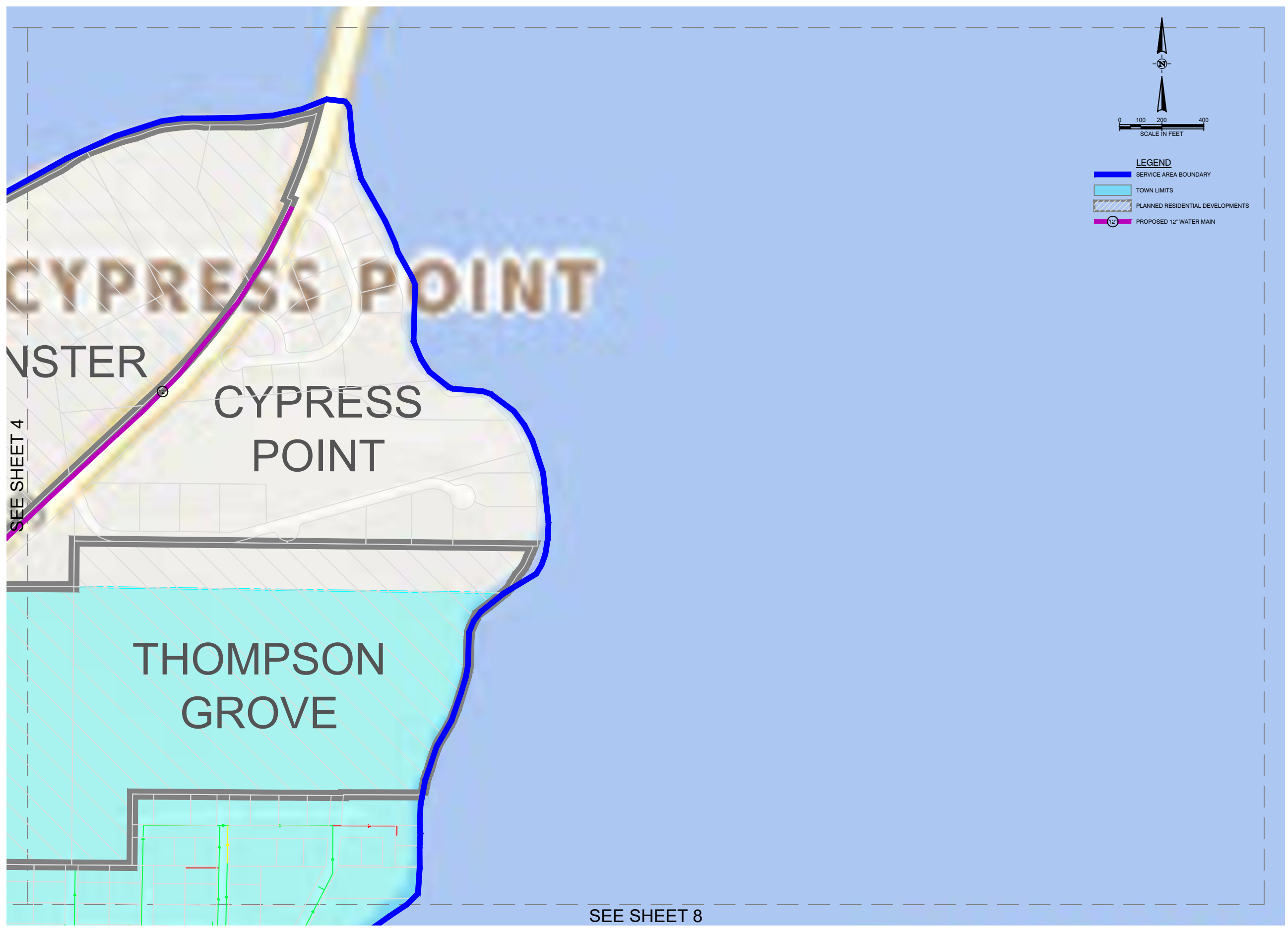
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SHEET 4

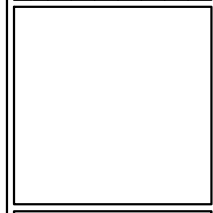


- LEGEND**
- █ SERVICE AREA BOUNDARY
 - TOWN LIMITS
 - PLANNED RESIDENTIAL DEVELOPMENTS
 - 12 PROPOSED 12" WATER MAIN

HOWEY-IN-THE-HILLS
WATER MASTER PLAN UPDATE
HOWEY-IN-THE-HILLS, FLORIDA



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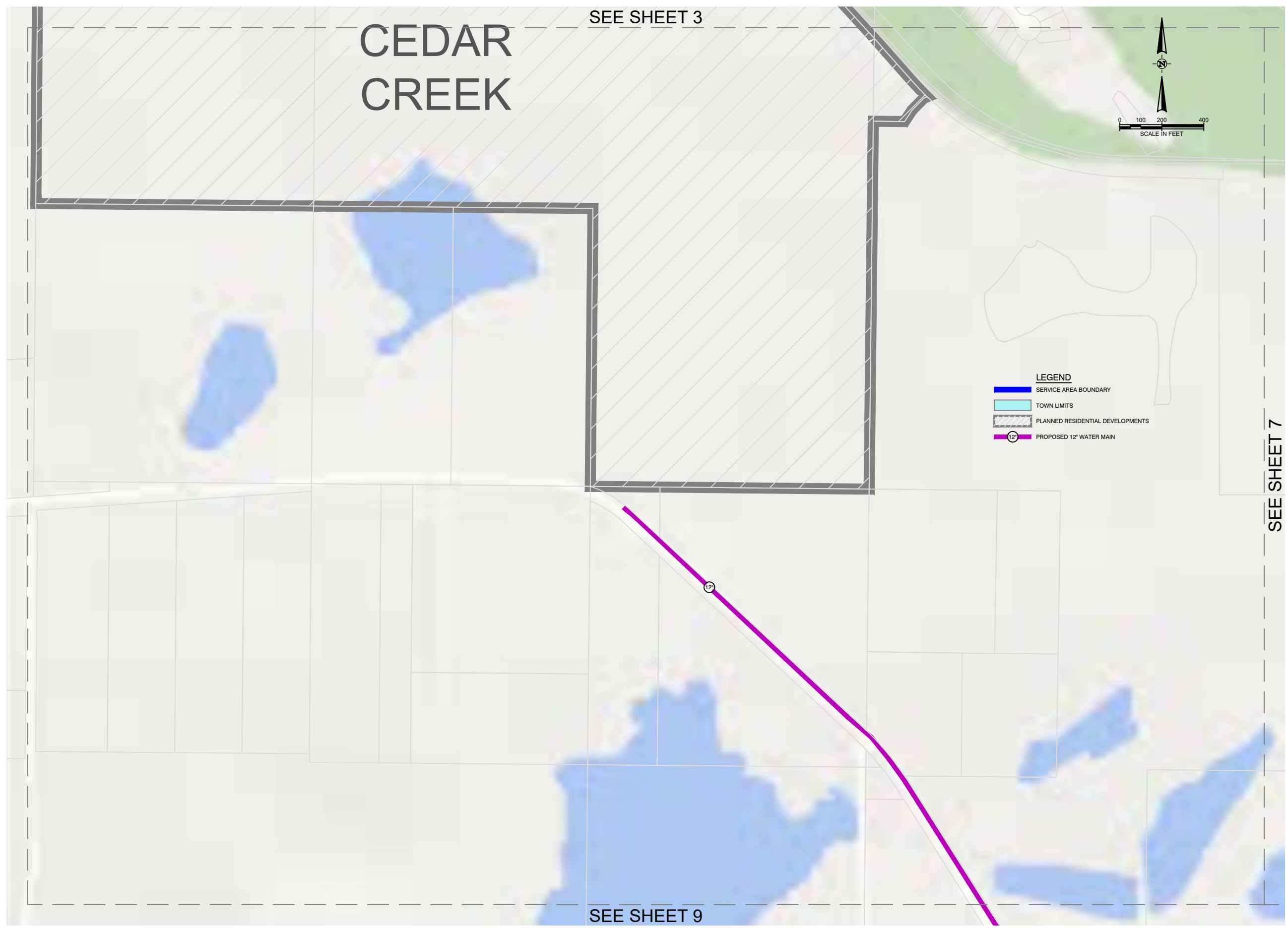


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PROPOSED CAPITAL WATER DISTRIBUTION SYSTEM MAP

SHEET 5

SEE SHEET 8



HOWEY-IN-THE-HILLS
WATER MASTER PLAN UPDATE
HOWEY-IN-THE-HILLS, FLORIDA



- LEGEND**
- SERVICE AREA BOUNDARY
 - TOWN LIMITS
 - PLANNED RESIDENTIAL DEVELOPMENTS
 - PROPOSED 12" WATER MAIN

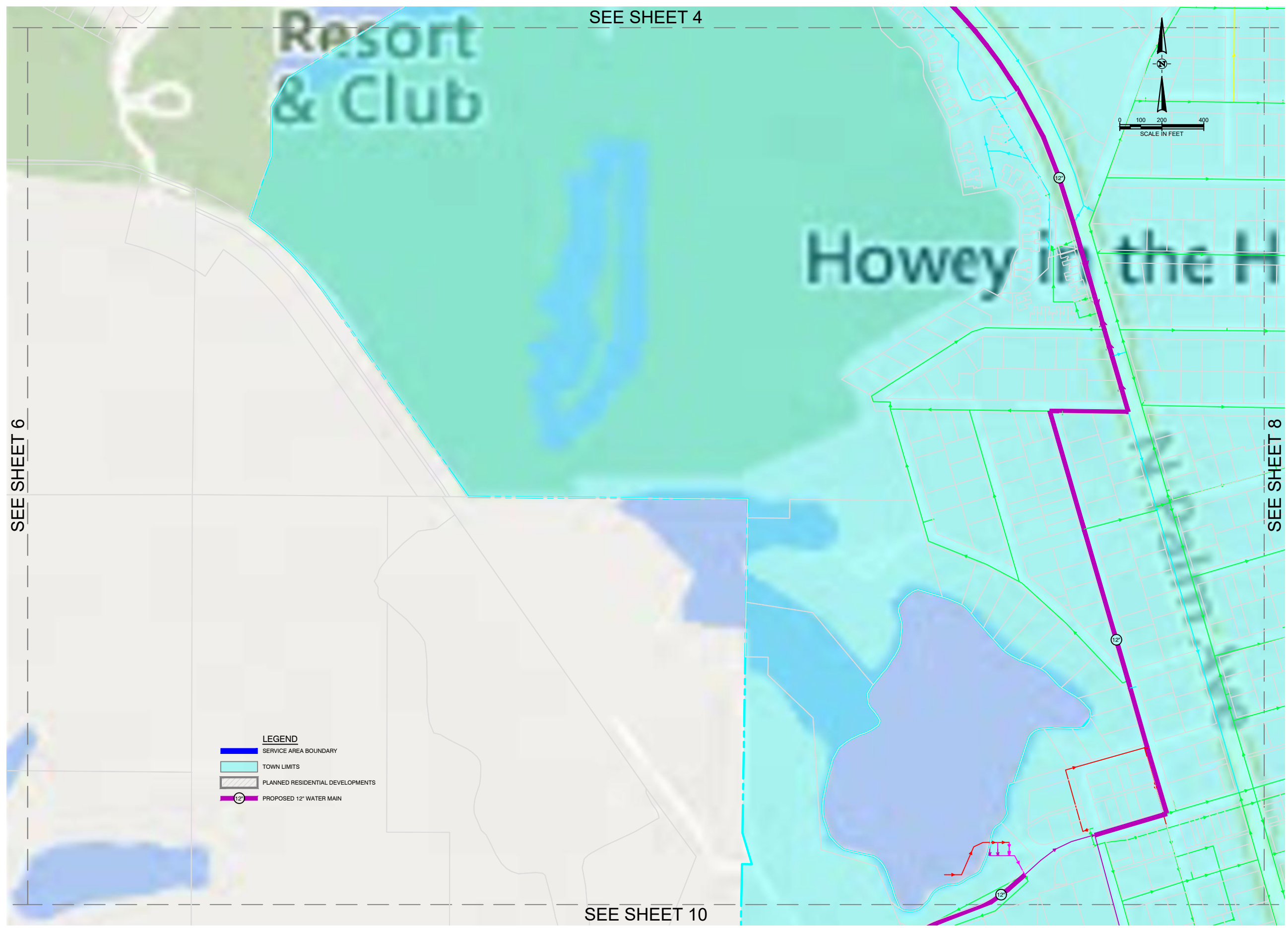
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PROPOSED CAPITAL WATER DISTRIBUTION SYSTEM MAP

SHEET 6



SEE SHEET 6

SEE SHEET 4

SEE SHEET 8

SEE SHEET 10

- LEGEND**
- █ SERVICE AREA BOUNDARY
 - TOWN LIMITS
 - PLANNED RESIDENTIAL DEVELOPMENTS
 - 12" PROPOSED 12" WATER MAIN

HOWEY-IN-THE-HILLS
WATER MASTER PLAN UPDATE
HOWEY-IN-THE-HILLS, FLORIDA

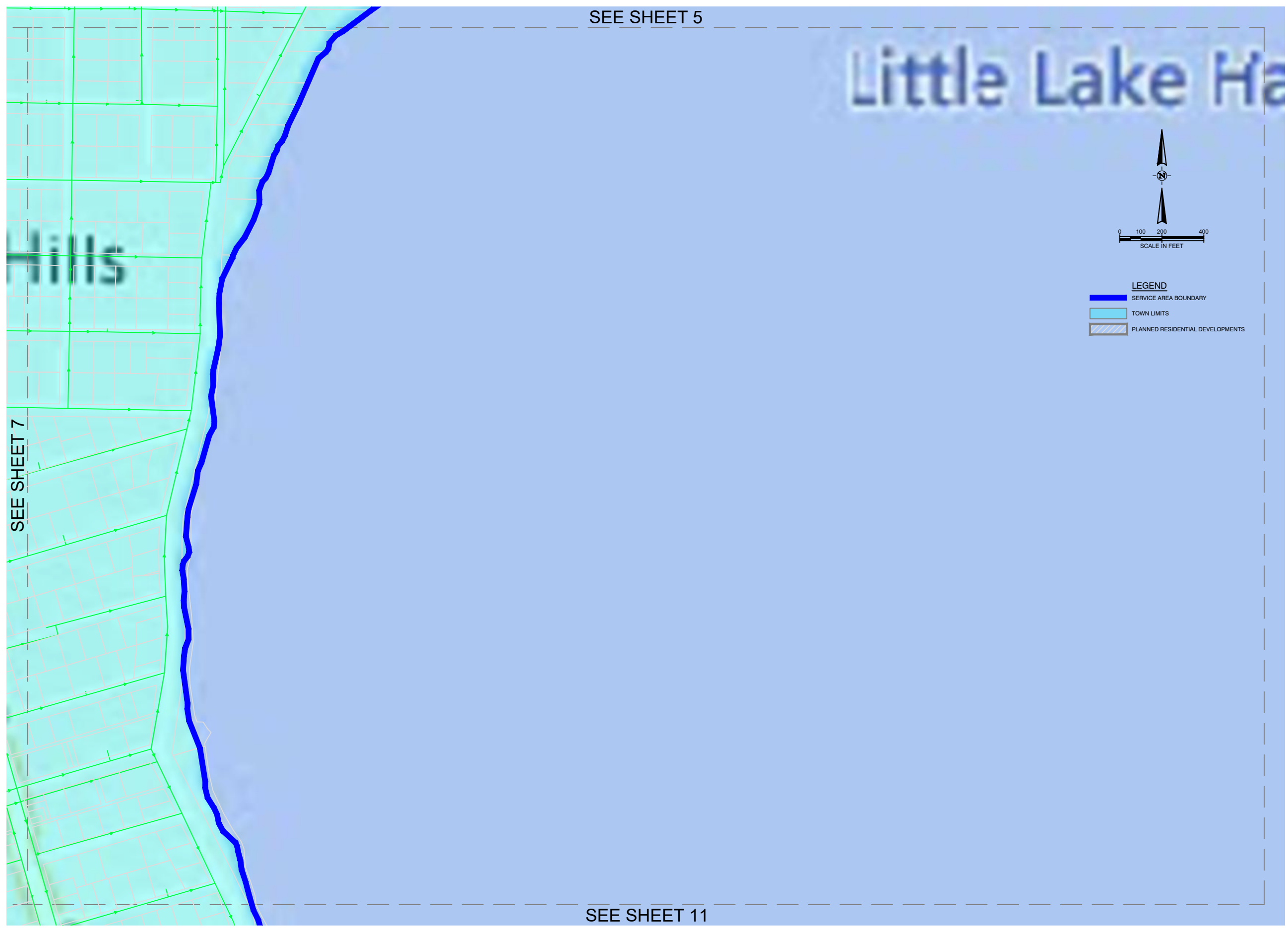


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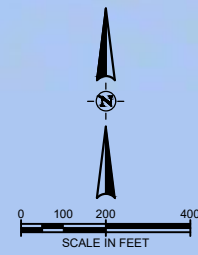
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SHEET 7



SEE SHEET 5

Little Lake Ha



- LEGEND**
- SERVICE AREA BOUNDARY
 - TOWN LIMITS
 - PLANNED RESIDENTIAL DEVELOPMENTS

SEE SHEET 7

SEE SHEET 11

HOWEY-IN-THE-HILLS
 WATER MASTER PLAN UPDATE
 HOWEY-IN-THE-HILLS, FLORIDA



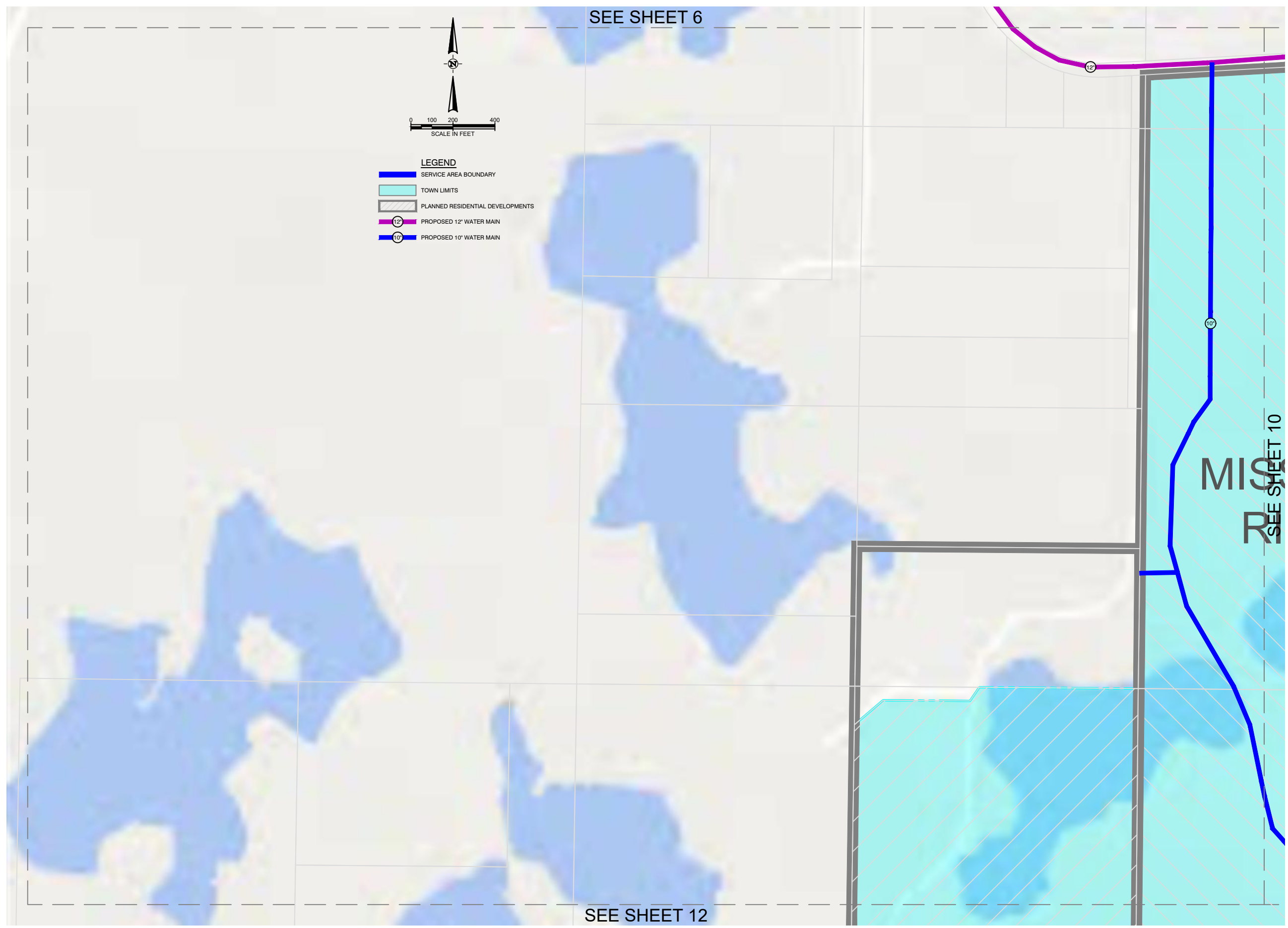
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SHEET 8



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HOWEY-IN-THE-HILLS, FLORIDA



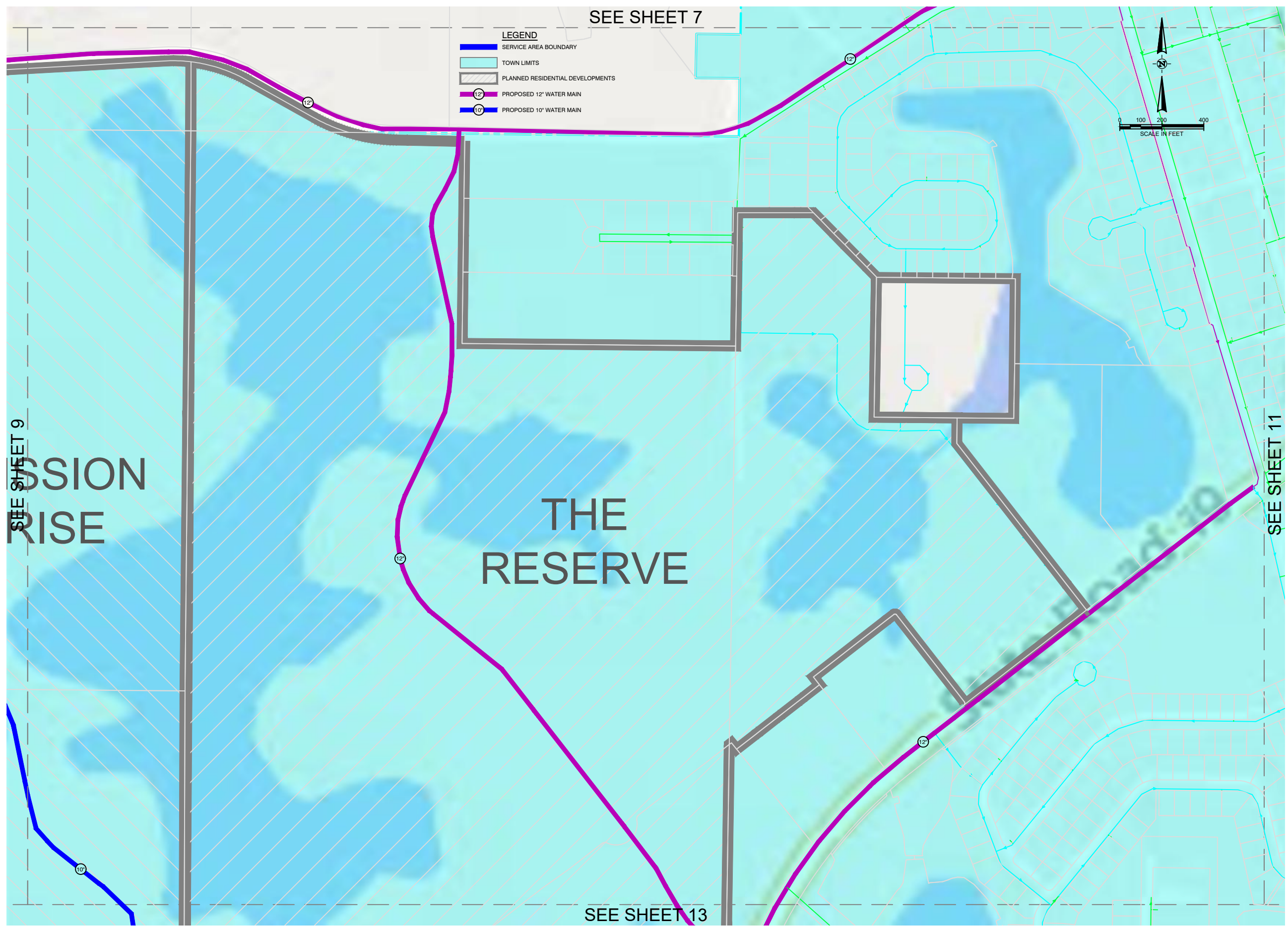
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SHEET 9



LEGEND

- SERVICE AREA BOUNDARY
- TOWN LIMITS
- PLANNED RESIDENTIAL DEVELOPMENTS
- PROPOSED 12" WATER MAIN
- PROPOSED 10" WATER MAIN

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SCALE IN FEET

SEE SHEET 9
CONVERSION
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RESERVE

SEE SHEET 13

SEE SHEET 11

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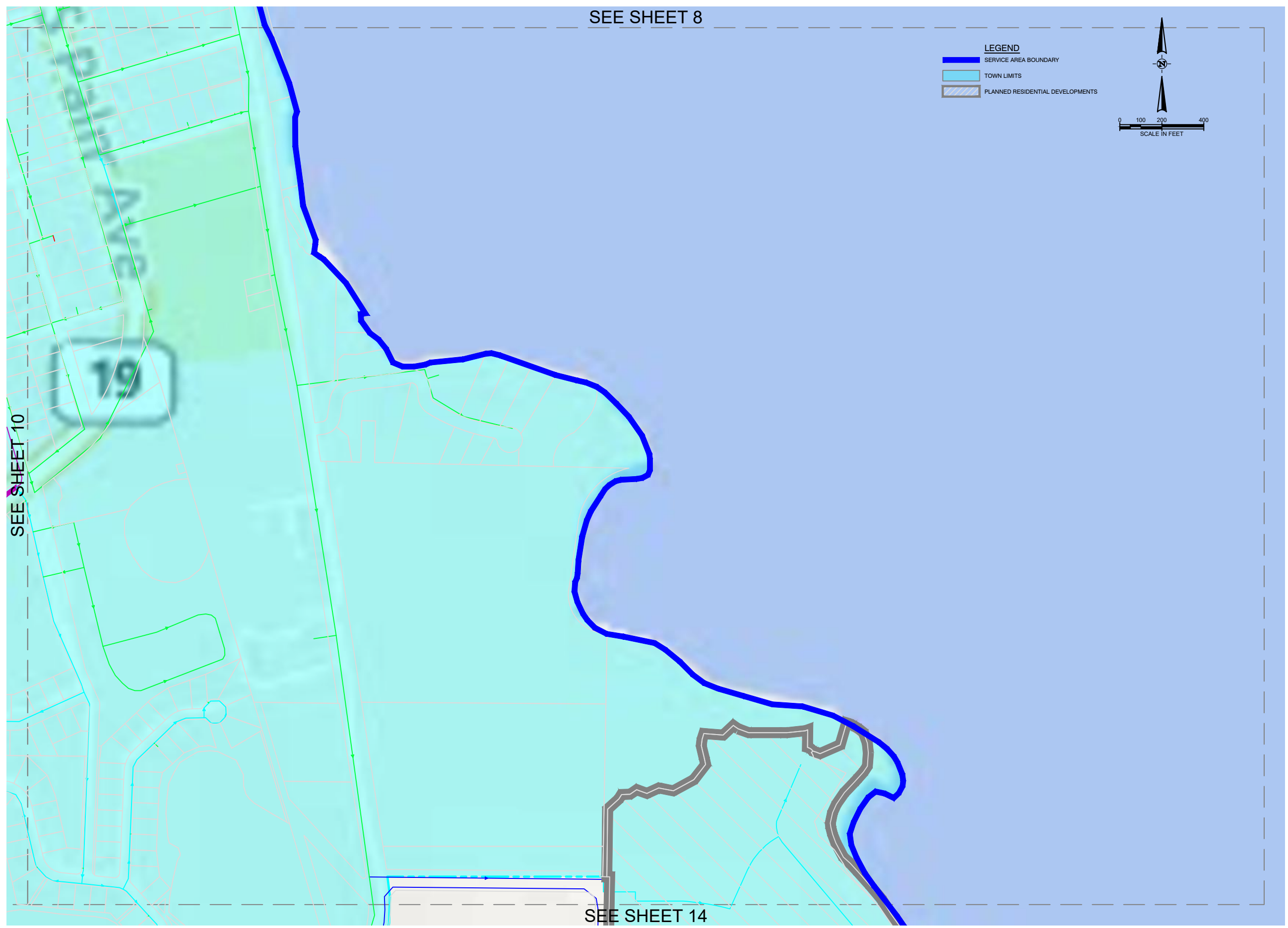
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TEL: (813) 343-9481

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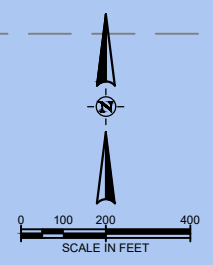
THE SEAL ORIGINALLY APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY:
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 DATE: OCTOBER 2024
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PROJECT NO.: 055783.001
 ISSUED: OCTOBER 2024
 DRAWN BY: -
 CHECKED BY: -
 SCALE: 1" = 200'
 SHEET TITLE:
PROPOSED CAPITAL WATER DISTRIBUTION SYSTEM MAP

SHEET 10



LEGEND
 SERVICE AREA BOUNDARY
 TOWN LIMITS
 PLANNED RESIDENTIAL DEVELOPMENTS



HOWEY-IN-THE-HILLS
 WATER MASTER PLAN UPDATE
 HOWEY-IN-THE-HILLS, FLORIDA

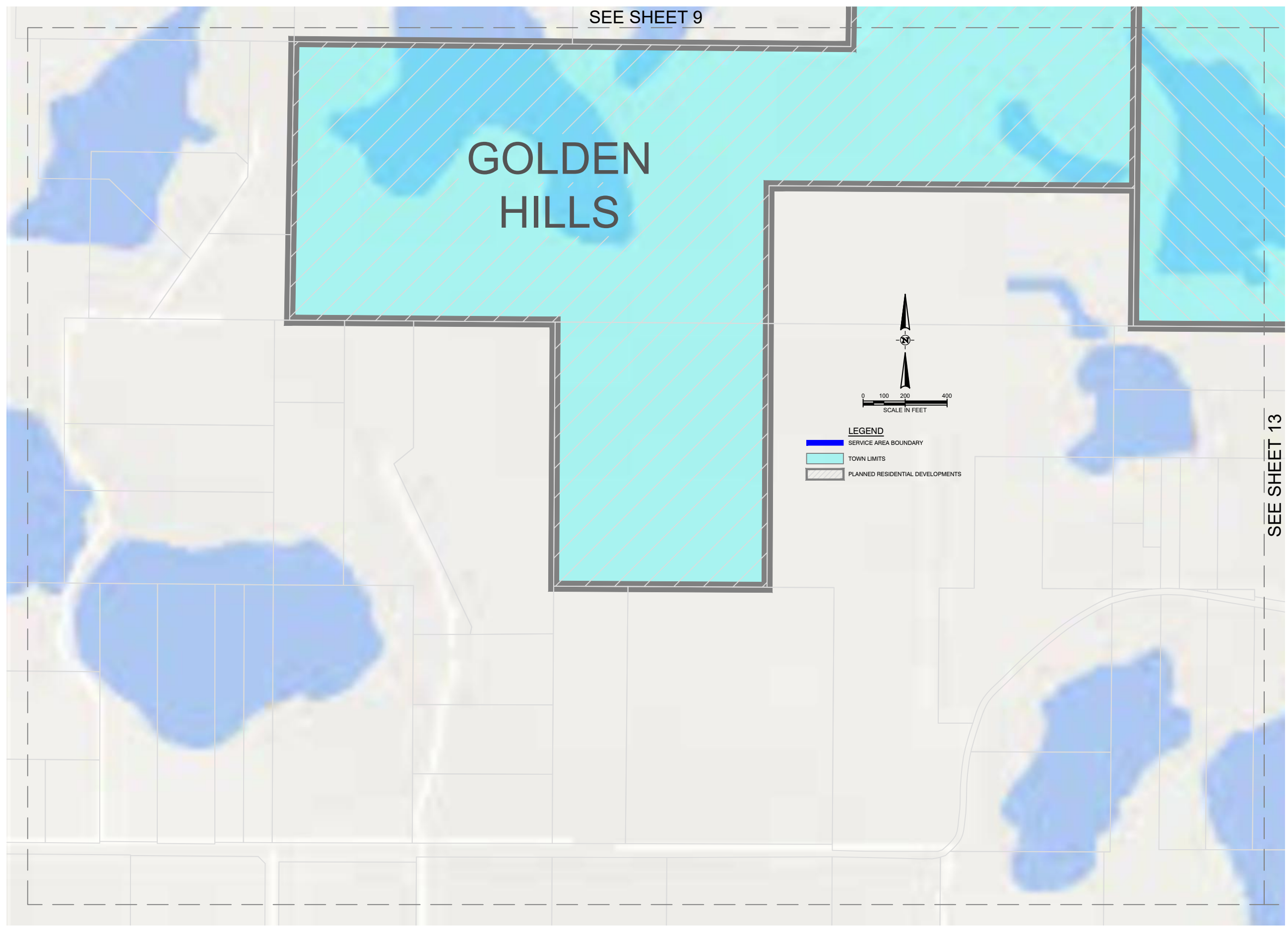


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 SCALE: 1" = 200'
 SHEET TITLE:
 PROPOSED CAPITAL
 WATER DISTRIBUTION
 SYSTEM MAP

SHEET 11



HOWEY-IN-THE-HILLS
WATER MASTER PLAN UPDATE
HOWEY-IN-THE-HILLS, FLORIDA

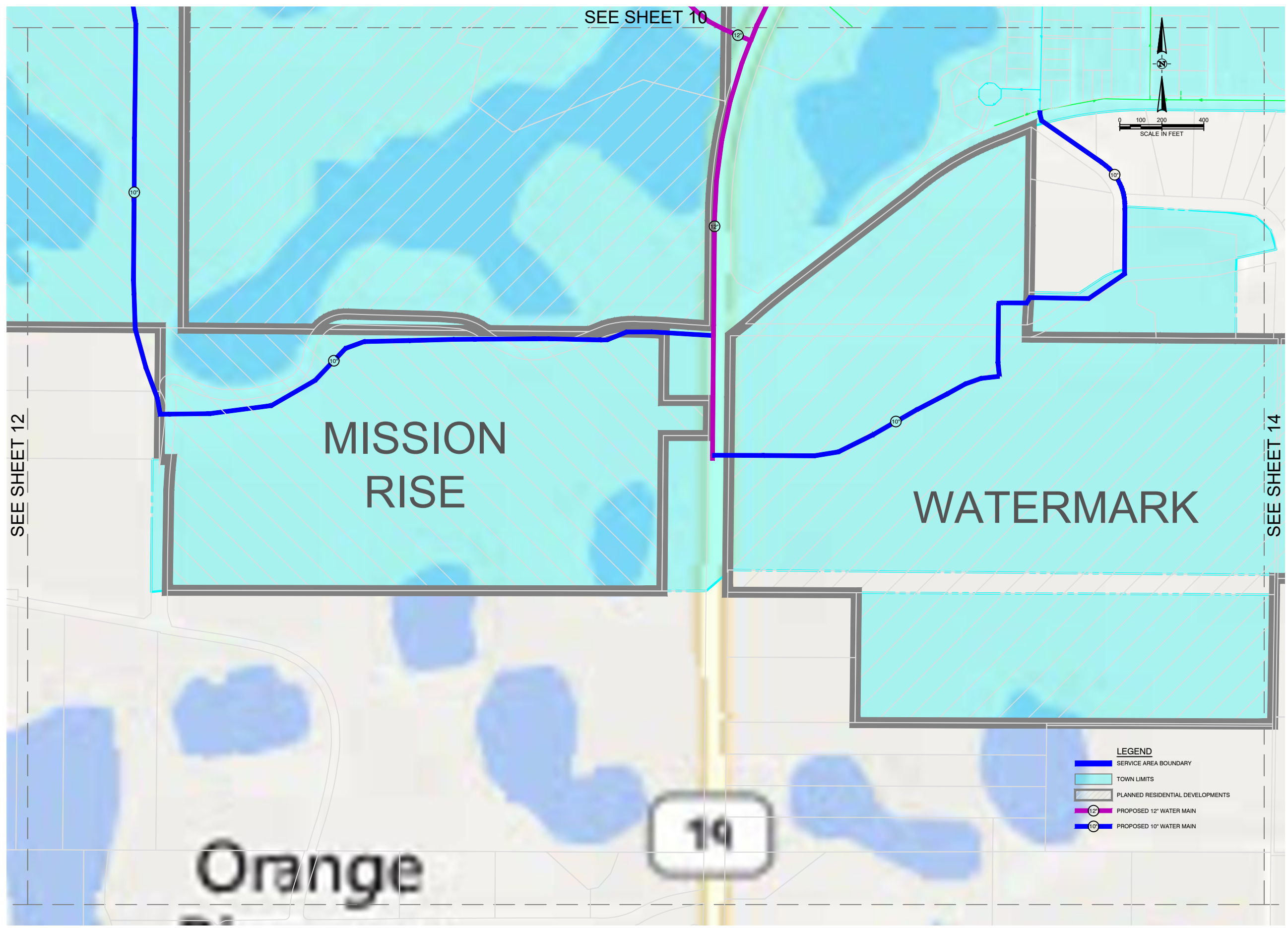


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 FIRM OR BUSINESS NO. _____ STATE _____

PROJECT NO.: 055783.001
 ISSUED: OCTOBER 2024
 DRAWN BY: -
 CHECKED BY: -
 SCALE: 1" = 200'
 SHEET TITLE:
PROPOSED CAPITAL WATER DISTRIBUTION SYSTEM MAP

SHEET 12



SEE SHEET 12

SEE SHEET 10

SEE SHEET 14

MISSION
RISE

WATERMARK

Orange

19

- LEGEND**
- █ SERVICE AREA BOUNDARY
 - TOWN LIMITS
 - PLANNED RESIDENTIAL DEVELOPMENTS
 - █ (12") PROPOSED 12" WATER MAIN
 - █ (10") PROPOSED 10" WATER MAIN

HOWEY-IN-THE-HILLS
WATER MASTER PLAN UPDATE
HOWEY-IN-THE-HILLS, FLORIDA





HALFF ASSOCIATES, INC.
3000 WEST HIGHLAND AVE
SUITE 200
ORANGE, FL 32805
TEL: (850) 343-9481

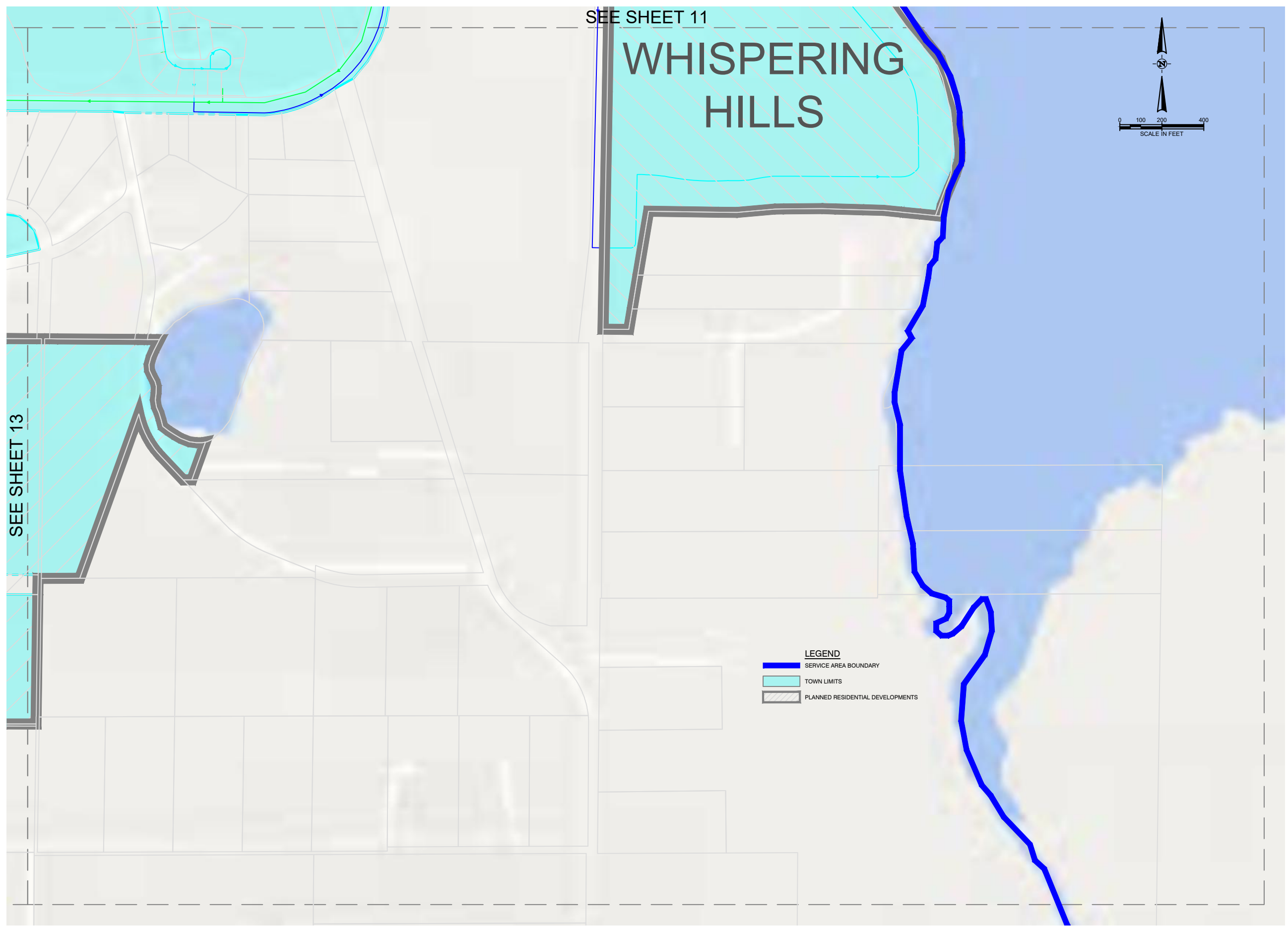
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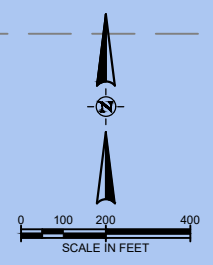
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 SCALE: 1" = 200'
 SHEET TITLE:
PROPOSED CAPITAL WATER DISTRIBUTION SYSTEM MAP

SHEET 13



SEE SHEET 11

WHISPERING HILLS



SEE SHEET 13

- LEGEND**
- █ SERVICE AREA BOUNDARY
 - TOWN LIMITS
 - PLANNED RESIDENTIAL DEVELOPMENTS

HOWEY-IN-THE-HILLS
WATER MASTER PLAN UPDATE
HOWEY-IN-THE-HILLS, FLORIDA



REVISION NO.	DATE	DESCRIPTION

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 SCALE: 1" = 200'
 SHEET TITLE:
PROPOSED CAPITAL WATER DISTRIBUTION SYSTEM MAP

SHEET 14

TABLES

TABLE A
Town of Howey in the Hills
Estimated Historical Service Connections and Water Demand

Year	Annual Water Demand						Total Residential Connections ²	Population ¹	per Capita	Percent Increase (%)	Residential Demand		Overall System Demand	
	Total (MGY)	Unaccounted (MGY) ⁷	Construction (MGY) ⁶	Irrigation (MGY) ⁵	Commercial (MGY) ⁴	Residential (MGY) ³					per ERU (gpd/ERU)	per Capita (gpd)	per ERU (gpd/ERU)	per Capita (gpd)
2018	113.417	6.351	9.981	45.593	9.754	41.737	811	1,865	2.30		141	61	383	167
2019	163.409	9.151	14.380	65.690	14.053	60.134	879	2,022	2.30	8.4%	187	81	509	221
2020	151.506	8.484	13.333	60.905	13.030	55.754	938	2,157	2.30	6.7%	162	71	441	192
2021	140.996	7.896	12.408	56.680	12.126	51.887	1,088	2,502	2.30	16.0%	131	57	355	154
2022	159.757	8.946	14.059	64.222	13.739	58.791	1,146	2,636	2.30	5.3%	141	61	382	166
2023	168.087	9.413	14.792	67.571	14.455	61.856	1,226	2,820	2.30	7.0%	138	60	376	163
Average									2.30	8.7%	150	68	408	184

Year	Annual Average Water Demand						Non-Residential - Irrigation			Non-Residential - Commercial ⁹		
	Total (MGY)	Unaccounted (MGY) ⁷	Construction (MGY) ⁶	Irrigation (MGY) ⁵	Commercial (MGY) ⁴	Residential (MGY) ³	Connections	Demand (gpd/cu)	ERU ⁸	Connections	Demand (gpd/cu)	ERU ⁸
2018	113.417	6.351	9.981	45.593	9.754	41.737	26	4,804	306	34	786	65
2019	163.409	9.151	14.380	65.690	14.053	60.134	26	6,922	441	34	1,132	94
2020	151.506	8.484	13.333	60.905	13.030	55.754	17	9,789	408	34	1,047	87
2021	140.996	7.896	12.408	56.680	12.126	51.887	17	9,135	381	34	977	81
2022	159.757	8.946	14.059	64.222	13.739	58.791	22	7,998	431	34	1,107	92
2023	168.087	9.413	14.792	67.571	14.455	61.856	24	7,714	454	34	1,165	97
Average								7,727	403		1,036	86

NOTES:

- Estimated population per home **2.30** based on the 2020 Decennial Census
- Service connections were provided by the Town's Billing Department
- Average Residential Demand: **36.8%** based on data provided by Town's billing
- Average Commercial Demand: **8.6%** based on data provided by Town's billing
- Average Irrigation Demand: **40.2%** based on data provided by Town's billing
- Average Construction Demand: **8.8%** based on data provided by Town's billing
- Average Unaccounted Demand: **5.6%** based on average of 2021 & 2022 Water Audits
- Residential ERU: **408** GPD/ERU
- Connections include commercial, institutional and municipal.
- Demand is based on Total Usage per Residential Connections

Comprehensive Plan - Chapter 4: 242.0 gpcd Overall System Demand

Residential Use: 150.8 gpd per resident

TABLE B
Town of Howey in the Hills
Historic Water Usage Per Service Connection Type

Fiscal Year	Total Billed Usage (Gallons)	Total Residential		Total Commercial		Total Irrigation		Total Builder	
		Usage (Gallons)	Percent (%)	Usage (Gallons)	Percent (%)	Usage (Gallons)	Percent (%)	Usage (Gallons)	Percent (%)
2019	132,652,000	58,440,000	44.06%	27,902,000	21.03%	38,676,000	29.16%	7,634,000	5.75%
2020	258,582,000	100,442,000	38.84%	33,190,000	12.84%	119,365,000	46.16%	5,585,000	2.16%
2021	161,448,797	74,586,000	46.20%	13,924,000	8.62%	66,987,000	41.49%	5,951,797	3.69%
2022	149,084,474	58,605,000	39.31%	3,534,000	2.37%	72,712,000	48.77%	14,233,474	9.55%
2023	160,643,068	60,238,000	37.50%	4,327,000	2.69%	87,727,000	54.61%	8,351,068	5.20%
5-year Total	862,410,339	352,311,000		82,877,000		385,467,000		41,755,339	
5-year Percentage			40.85%		9.61%		44.70%		4.84%

NOTES:

1. Billed Water Usage provided by the Town's Billing Department
2. Unaccounted flows and percentages are not represented.
3. Total Builder Usage for 2023 is estimated.

TABLE C
Town of Howey in the Hills
WTP MOR's 2018-2023

MONTH	2019 (Avg. DD)	2019 (Max. DD)	Ratio	2020 (Avg. DD)	2020 (Max. DD)	Ratio	2021 (Avg. DD)	2021 (Max. DD)	Ratio	2022 (Avg. DD)	2022 (Max. DD)	Ratio	2023 (Avg. DD)	2023 (Max. DD)	Ratio
JANUARY	310,132	864,300	2.79	401,958	886,300	2.20	309,394	524,300	1.69	395,881	754,800	1.91	346,081	603,700	1.74
FEBRUARY	307,343	590,300	1.92	420,979	987,000	2.34	298,179	606,200	2.03	348,143	757,800	2.18	395,850	704,400	1.78
MARCH	367,739	897,100	2.44	479,177	879,600	1.84	341,535	598,000	1.75	371,771	960,500	2.58	483,403	792,000	1.64
APRIL	412,313	710,100	1.72	432,243	982,700	2.27	397,514	725,700	1.83	440,930	931,200	2.11	507,843	908,600	1.79
MAY	572,135	1,235,000	2.16	490,453	975,700	1.99	467,171	957,900	2.05	532,326	1,030,100	1.94	515,023	871,000	1.69
JUNE	487,657	1,125,100	2.31	472,603	974,700	2.06	481,830	947,500	1.97	556,706	1,096,600	1.97	490,383	1,086,100	2.21
JULY	405,403	801,500	1.98	449,777	885,000	1.97	345,016	710,700	2.06	503,219	924,300	1.84	513,177	1,074,500	2.09
AUGUST	464,971	938,700	2.02	364,294	595,900	1.64	372,121	738,900	1.99	451,394	822,500	1.82	508,465	940,200	1.85
SEPTEMBER	627,443	1,032,700	1.65	383,263	711,600	1.86	372,060	688,800	1.85	386,974	699,700	1.81	445,637	871,700	1.96
OCTOBER	563,352	1,138,100	2.02	378,629	641,100	1.69	439,200	672,700	1.53	452,429	861,300	1.90	466,881	931,200	1.99
NOVEMBER	453,633	828,000	1.83	353,200	589,000	1.67	407,837	816,450	2.00	423,303	832,500	1.97	454,667	857,900	1.89
DECEMBER	392,781	926,500	2.36	340,823	631,700	1.85	398,787	999,300	2.51	382,390	634,900	1.66	394,300	632,000	1.60
Average	447,075	923,950	2.10	413,950	811,692	1.95	385,887	748,871	1.94	437,122	858,850	1.97	460,142	856,108	1.85
5 yr Average															1.96

TABLE D
Town of Howey in the Hills
Future Residential Developments and Demands

Development Name	ERUs	Population	Demand		
			ADD (MGD)	MDD (MGD)	PHD (MGD)
Approved Developments					
Venezia South Townhomes	113	278	0.017	0.034	0.068
Venezia North - Talichet Phase II	21	52	0.003	0.006	0.013
Whispering Hills	156	384	0.023	0.047	0.094
Lake Hills (Four Seasons)	571	1,405	0.086	0.171	0.343
The Reserve	728	1,791	0.109	0.218	0.437
Watermark (Simpson Parcel)	225	554	0.034	0.068	0.135
Future Developments					
Mission Rise	499	1,228	0.075	0.150	0.299
Thompson Grove (Bouis Property)	272	669	0.041	0.082	0.163
Westminster (Marina)	350	861	0.053	0.105	0.210
Cedar Creek (Daryl Carter)	171	421	0.026	0.051	0.103
Golden Hills (J-5 Equities)	607	1,493	0.091	0.182	0.364
Cypress Point	110	271	0.017	0.033	0.066
Drake Point	530	1,304	0.080	0.159	0.318
Total Proposed Residential	4,353	10,708	0.653	1.306	2.612
Total Existing Residential	1,226	2,820	0.500	1.000	2.001
Total Residential	5,579	13,528	1.153	2.306	4.613

Notes:

- | | | |
|--|-------------|-------------|
| 1. Proposed Residential Average Daily Demand | 150 | gpd/ERU |
| 2. Existing Residential Average Daily Demand | 408 | gpd/ERU |
| 3. Proposed capita per ERU | 2.46 | persons/ERU |
| 4. Maximum Daily Demand peaking factor | 2.00 | |
| 5. Peak Hour Demand peaking factor | 4.00 | |

TABLE E
Town of Howey in the Hills
Future Non-Residential Developments and Demands

Development Name	ERUs	Gross Floor Area (ft ²)	Demand		
			ADD (MGD)	MDD (MGD)	PHD (MGD)
Approved Commercial Developments					
Venezia South	85	85,000	0.013	0.026	0.051
Lake Hills (Four Seasons)	150	150,000	0.023	0.045	0.090
The Reserve	300	300,000	0.045	0.090	0.180
Approved Institutional Developments					
Lake Hills (Four Seasons)	293	176,000	0.044	0.088	0.176
The Reserve	342	205,000	0.051	0.103	0.205
Total Proposed Non-Residential	1,170	916,000	0.176	0.351	0.702
Total Existing Non-Residential			0.040	0.080	0.160
Total Non-Residential			0.216	0.431	0.862

Notes:

- 1. Proposed Commercial Average Daily Demand 0.15 gpd/sf
- 2. Proposed Institutional Average Daily Demand 0.25 gpd/sf
- 3. Proposed Residential ERU 150 GPD/ERU
- 4. Maximum Daily Demand peaking factor 2.00
- 5. Peak Hour Demand peaking factor 4.00

TABLE F
Town of Howey in the Hills
Future Planned Developments

Year	Existing Residential Connections	Proposed Residential Connections	Proposed Residential Connections Approved						Proposed Residential Connections Future							Proposed Non-Residential				
			Venezia Townhomes 113	Venezia North Phase II 21	Whispering Hills 156	Lake Hills 571	The Reserve 728	Watermark 225	Mission Rise 499	Thompson Grove 272	Westminster 350	Cedar Creek 171	Golden Hills 607	Cypress Point 110	Drake Point 530	Venezia 85,000	Commercial Lake Hills 150,000	The Reserve 300,000	Institutional Lake Hills 176,000	The Reserve 205,000
2018	811																			
2019	879																			
2020	938																			
2021	1,088																			
2022	1,146																			
2023	1,226																			
2024	1,226	21		21																
2025	1,226	78	57																	
2026	1,226	188	56			54									85,000					
2027	1,226	446			36	108	54	60												
2028	1,226	818			36	108	108	60			60					75,000				
2029	1,226	1,304			36	108	108	60	54	60	60					75,000		176,000		
2030	1,226	1,920			36	108	108	45	108	60	60	36		55			300,000			
2031	1,226	2,552			12	85	108		108	60	60	36	108	55					205,000	
2032	1,226	3,032					108		108	60	60	36	108							
2033	1,226	3,582					108		108	32	50	36	108							
2034	1,226	3,864					26		13			27	108							
2035	1,226	4,080											108							
2036	1,226	4,255											67							
2037	1,226	4,353																		
2038	1,226	4,353																		
2039	1,226	4,353																		
2040	1,226	4,353																		
2041	1,226	4,353																		
2042	1,226	4,353																		
2043	1,226	4,353																		
Total	1,226	4,353	113	21	156	571	728	225	499	272	350	171	607	110	530	85,000	150,000	300,000	176,000	205,000

Notes

- 1. Small development (< 200 dwelling units) average construction rate: 3 per month
- 2. Medium development (200 - 400 dwelling units) average construction rate: 5 per month
- 3. Large development (> 400 dwelling units) average construction rate: 9 per month

TABLE G
Town of Howey in the Hills
Projected Water Demands

Year	Existing Residential Connections	Proposed Residential Connections	Average Demand							Maximum Demand (MGD)	Peak Hour Demand (MGD)
			Residential (MGD)	Commercial (MGD)	Irrigation (MGD)	Subtotal (MGD)	Construction (MGD)	Unaccounted (MGD)	Total (MGD)		
2018	811	0	0.114	0.027	0.125	0.266	0.027	0.017	0.311	0.621	1.243
2019	879	0	0.165	0.039	0.180	0.383	0.039	0.025	0.448	0.895	1.791
2020	938	0	0.152	0.036	0.166	0.354	0.036	0.023	0.414	0.828	1.656
2021	1,088	0	0.142	0.033	0.155	0.331	0.034	0.022	0.386	0.773	1.545
2022	1,146	0	0.161	0.038	0.176	0.375	0.039	0.025	0.438	0.875	1.751
2023	1,226	0	0.169	0.040	0.185	0.394	0.041	0.026	0.461	0.921	1.842
2024	1,226	21	0.503	0.040	0.185	0.728	0.072	0.082	0.883	1.765	3.530
2025	1,226	78	0.512	0.040	0.185	0.737	0.073	0.083	0.893	1.786	3.572
2026	1,226	188	0.528	0.052	0.185	0.766	0.076	0.087	0.928	1.857	3.714
2027	1,226	446	0.567	0.064	0.185	0.816	0.081	0.092	0.989	1.978	3.956
2028	1,226	818	0.623	0.119	0.185	0.927	0.092	0.105	1.124	2.247	4.495
2029	1,226	1,304	0.696	0.164	0.185	1.045	0.104	0.118	1.267	2.533	5.066
2030	1,226	1,920	0.788	0.164	0.185	1.137	0.113	0.128	1.379	2.757	5.514
2031	1,226	2,552	0.883	0.215	0.185	1.283	0.128	0.145	1.556	3.111	6.223
2032	1,226	3,032	0.955	0.215	0.185	1.355	0.135	0.153	1.643	3.286	6.572
2033	1,226	3,582	1.038	0.215	0.185	1.438	0.143	0.162	1.743	3.486	6.972
2034	1,226	3,864	1.080	0.215	0.185	1.480	0.147	0.167	1.794	3.589	7.177
2035	1,226	4,080	1.112	0.215	0.185	1.512	0.150	0.171	1.834	3.667	7.334
2036	1,226	4,255	1.138	0.215	0.185	1.539	0.153	0.174	1.865	3.731	7.462
2037	1,226	4,353	1.153	0.215	0.185	1.553	0.154	0.176	1.883	3.766	7.533
2038	1,226	4,353	1.153	0.215	0.185	1.553	0.000	0.176	1.729	3.458	6.915
2039	1,226	4,353	1.153	0.215	0.185	1.553	0.000	0.176	1.729	3.458	6.915
2040	1,226	4,353	1.153	0.215	0.185	1.553	0.000	0.176	1.729	3.458	6.915
2041	1,226	4,353	1.153	0.215	0.185	1.553	0.000	0.176	1.729	3.458	6.915
2042	1,226	4,353	1.153	0.215	0.185	1.553	0.000	0.176	1.729	3.458	6.915
2043	1,226	4,353	1.153	0.215	0.185	1.553	0.000	0.176	1.729	3.458	6.915
Total	1,226	4,353									

Notes:

- 1. Average Construction Demand: 8.8% based on data provided by Town's billing
- 2. Average Unaccounted Loss Demand: 10.0% based on Max allowable by SJRWMD CUP
- 3. Maximum Daily Demand peaking factor 2.00
- 4. Peak Hour Demand peaking factor 4.00
- 5. CUP Max. Withdraw through 2029 0.90 MGD (annual average)

TABLE H
Town of Howey in the Hills
WaterCAD Analysis - Summary of Results

Scenario Title	System Demand		Fire Flow (gpm)	Fire Location	Interconnect Pressure (psi)	System Pressure		System Modeling Notes
	Type	Demand (MGD)				Minimum (psi)	Maximum (psi)	
Ave Day - Existing Interconnect	Average Day	1.215	N/A		50	37	79	Uses a 50 psi setpoint at the interconnect to control the plants VFD pumps
Max Day - Existing Interconnect	Maximum Day	3.177	N/A		50	37	79	Uses a 50 psi setpoint at the interconnect to control the plants VFD pumps
Max Day - Ex Interconnect + Fire (North)	Maximum Day	3.177	1,500	Mission Inn	50	36	97	Uses a 50 psi setpoint at the interconnect to control the plants VFD pumps
Max Day - Ex Interconnect + Fire (South)	Maximum Day	3.177	1,000	Watermark	50	34	79	Uses a 50 psi setpoint at the interconnect to control the plants VFD pumps
Max Day - Ex Interconnect - WTP No. 1 Off-Line	Maximum Day	3.177	N/A		50	28	103	Uses a 50 psi setpoint at the interconnect to control the plants VFD pumps
Max Day - Ex Interconnect - WTP No. 1 Off-Line + Fire (North)	Maximum Day	3.177	1,500	Mission Inn	50	-63	77	Uses a 50 psi setpoint at the interconnect to control the plants VFD pumps
Max Day - Ex Interconnect - WTP No. 1 Off-Line + Fire (South)	Maximum Day	3.177	1,500	Watermark	50	-100	77	Uses a 50 psi setpoint at the interconnect to control the plants VFD pumps
Max Day - Ex Interconnect - WTP No. 1 Off-Line + Fire (South)	Maximum Day	3.177	1,000	Watermark	50	-43	93	Uses a 50 psi setpoint at the interconnect to control the plants VFD pumps
Max Day - Ex Interconnect - WTP No. 3 Off-Line	Maximum Day	3.177	N/A		50	39	82	Uses a 50 psi setpoint at the interconnect to control the plants VFD pumps
Max Day - Ex Interconnect - WTP No. 3 Off-Line + Fire (North)	Maximum Day	3.177	1,500	Mission Inn	50	16	85	Uses a 50 psi setpoint at the interconnect to control the plants VFD pumps
Max Day - Ex Interconnect - WTP No. 3 Off-Line + Fire (South)	Maximum Day	3.177	1,500	Watermark	50	35	81	Uses a 50 psi setpoint at the interconnect to control the plants VFD pumps
Max Day - Ex Interconnect - WTP No. 3 Off-Line + Fire (South)	Maximum Day	3.177	1,000	Watermark	50	38	81	Uses a 50 psi setpoint at the interconnect to control the plants VFD pumps
Max Day - Proposed Interconnect	Maximum Day	3.177	N/A		50	37	79	Uses a 12" main from WTP No. 3 to WTP No. 1 and all SR 19 crossings open
Max Day - Proposed Interconnect - Existing Demand Conditions	Maximum Day	3.177	N/A		50	40	79	Uses a 12" main from WTP No. 3 to WTP No. 1 and all SR 19 crossings open
Max Day - Pro Interconnect + Fire (North)	Maximum Day	3.177	1,500	Mission Inn	50	37	79	Required a 12" main from WTP No. 3 to WTP No. 1 and all SR 19 crossings open
Max Day - Pro Interconnect + Fire (South)	Maximum Day	3.177	1,000	Watermark	50	34	79	Required a 12" main from WTP No. 3 to WTP No. 1 and all SR 19 crossings open
Max Day - Pro Interconnect - WTP No. 1 Off-Line	Maximum Day	3.177	N/A		50	35	78	Required a 12" main from WTP No. 3 to WTP No. 1 and all SR 19 crossings open
Max Day - Pro Interconnect - WTP No. 1 Off-Line + Fire (North)	Maximum Day	3.177	1,500	Mission Inn	50	29	77	Required a 12" main from WTP No. 3 to WTP No. 1 and all SR 19 crossings open
Max Day - Pro Interconnect - WTP No. 1 Off-Line + Fire (South)	Maximum Day	3.177	1,500	Watermark	50	16	77	Required a 12" main from WTP No. 3 to WTP No. 1 and all SR 19 crossings open
Max Day - Pro Interconnect - WTP No. 1 Off-Line + Fire (South)	Maximum Day	3.177	1,000	Watermark	50	28	82	Required a 12" main from WTP No. 3 to WTP No. 1 and all SR 19 crossings open
Max Day - Pro Interconnect - WTP No. 3 Off-Line	Maximum Day	3.177	N/A		50	38	80	Required a 12" main from WTP No. 3 to WTP No. 1 and all SR 19 crossings open
Max Day - Pro Interconnect - WTP No. 3 Off-Line + Fire (North)	Maximum Day	3.177	1,500	Mission Inn	50	36	84	Required a 12" main from WTP No. 3 to WTP No. 1 and all SR 19 crossings open
Max Day - Pro Interconnect - WTP No. 3 Off-Line + Fire (South)	Maximum Day	3.177	1,500	Watermark	50	32	79	Required a 12" main from WTP No. 3 to WTP No. 1 and all SR 19 crossings open
Max Day - Pro Interconnect - WTP No. 3 Off-Line + Fire (South)	Maximum Day	3.177	1,000	Watermark	50	35	79	Required a 12" main from WTP No. 3 to WTP No. 1 and all SR 19 crossings open

TABLE I
Town of Howey in the Hills Capital Water System Improvements - WTP No. 3
Engineer's Opinion of Probable Construction Cost

Item #	Description	Quantity	Unit	Unit Price	Total Price
Phase I					
1	Mobilization/Demobilization/General Conditions	1	LS	\$150,000.00	\$150,000.00
2	Building Permit	1	LS	\$7,000.00	\$7,000.00
3	NPDES and Erosion Control	1	LS	\$8,000.00	\$8,000.00
4	Temp Fence and Permanent Fence	1	LS	\$15,000.00	\$15,000.00
5	Sitework, Earthwork and Tank Pads	1	LS	\$375,000.00	\$375,000.00
6	Two Well Pumps Equipment Installed	1	LS	\$196,000.00	\$196,000.00
7	Disinfect, Samples and Test of Wells	1	LS	\$12,000.00	\$12,000.00
8	Pumps Discharge Piping and Valves	1	LS	\$306,000.00	\$306,000.00
9	0.6 MG Ground Storage Tank with Aerator	1	LS	\$850,000.00	\$850,000.00
10	Under Slab Pipe from Tank to Pump Cans	1	LS	\$141,000.00	\$141,000.00
11	Vertical Turbine Pumps and Cans	1	LS	\$340,000.00	\$340,000.00
12	Yard Piping and Valves	1	LS	\$525,000.00	\$525,000.00
13	Chlorine Gas Equipment	1	LS	\$67,000.00	\$67,000.00
14	Auxiliary Generator	1	LS	\$202,000.00	\$202,000.00
15	Electrical	1	LS	\$900,000.00	\$900,000.00
16	SCADA control/monitoring system	1	LS	\$215,000.00	\$215,000.00
17	Building (3,648 sqft)	1	LS	\$729,000.00	\$729,000.00
18	HVAC	1	LS	\$40,000.00	\$40,000.00
19	Lab Equipment	1	LS	\$12,000.00	\$12,000.00
20	Lab Counters and Cabinets	1	LS	\$10,000.00	\$10,000.00
21	2" Water Service & Eyewash Station	1	LS	\$12,000.00	\$12,000.00
22	Painting, Coating & Misc	1	LS	\$64,000.00	\$64,000.00
23	Materials Testing	1	LS	\$10,000.00	\$10,000.00
24	Restoration	1	LS	\$20,000.00	\$20,000.00
25	Onsite Wastewater Treatment System	1	LS	\$25,000.00	\$25,000.00
26	As-Builts and Survey	1	LS	\$15,000.00	\$15,000.00
27	Close Out Doc & Manuals	1	LS	\$3,000.00	\$3,000.00
28	Indemnification (1%)	1	LS	\$52,000.00	\$52,000.00
Phase I Sub-Total					\$5,301,000.00
Payment/Performance Bond (5%)					\$265,000.00
Contract Administration (3%)					\$159,000.00
Engineering/Surveying/Construction Administration (15%)					\$729,000.00
Contingency (15%)					\$795,000.00
Phase I Construction Total					\$7,249,000.00
Item #	Description	Quantity	Unit	Unit Price	Total Price
Phase II					
1	Mobilization/Demobilization/General Conditions	1	LS	\$50,000.00	\$50,000.00
2	NPDES and Erosion Control	1	LS	\$3,000.00	\$3,000.00
3	0.6 MG Ground Storage Tank with Aerator	1	LS	\$909,000.00	\$909,000.00
4	As-Builts and Survey	1	LS	\$3,000.00	\$3,000.00
5	Restoration	1	LS	\$5,000.00	\$5,000.00
6	Indemnification (1%)	1	LS	\$10,000.00	\$10,000.00
Phase II Sub-Total					\$980,000.00
Payment/Performance Bond (5%)					\$49,000.00
Contract Administration (3%)					\$29,000.00
Engineering/Surveying/Construction Administration (5%)					\$49,000.00
Contingency (15%)					\$147,000.00
Phase II Construction Total					\$1,254,000.00
Construction Total					\$8,503,000.00

Please note that any opinion of the construction cost estimate prepared by Half represents its judgement as a design professional and is supplied solely for the general guidance of the client. Since Half has no control over the actual cost of labor and materials, or over competitive bidding, or market conditions, Half does not guarantee the accuracy of such opinion as compared to contractor bids or actual costs to the client.

TABLE J

**Town of Howey in the Hills Capital Water System Improvements - Distribution System
Engineer's Opinion of Probable Construction Cost**

Phase	Description	Quantity	Unit	Unit Price	Total Price
1	12" WM: WTP No.3 to W. Central Ave. - Complete	5650	LF	\$200.00	\$1,130,000.00
2	12" WM: SR19 - Venezia to Watermark - Complete	5350	LF	\$200.00	\$1,070,000.00
3	12" WM: CR48 - WTP No.3 to San Luis Blvd - Complete	2300	LF	\$200.00	\$460,000.00
4	12" WM: W. Central Ave. to Silverwood Ln. - Complete	5320	LF	\$200.00	\$1,064,000.00
5	12" WM: SR19 - CR48 to Savage Circle - Complete	4170	LF	\$200.00	\$834,000.00
6	12" WM: No. 2 Rd - Silverwood Ln. to Cedar Creek - Complete	3820	LF	\$200.00	\$764,000.00
7	12" WM: CR48 - San Luis Blvd to Lime Ave. - Complete	7450	LF	\$200.00	\$1,490,000.00
	Sub-Total				\$6,812,000.00
	Payment/Performance Bond (5%)				\$340,600.00
	Contract Administration (3%)				\$204,360.00
	Engineering/Surveying/Construction Administration (15%)				\$1,021,800.00
	Contingency (15%)				\$1,021,800.00
	Construction Total				\$9,400,560.00

Please note that any opinion of the construction cost estimate prepared by Halff represents its judgement as a design professional and is supplied solely for the general guidance of the client. Since Halff has no control over the actual cost of labor and materials, or over competitive bidding, or market conditions, Halff does not guarantee the accuracy of such opinion as compared to contractor bids or actual costs to the client.

TABLE K
Town of Howey in the Hills
Total Estimated Capital Cost by Year

Year	WTP No. 1 Improvements	WTP No. 2 Decommission	WTP No. 3 Construction	Water Main Expansion - Phase 1	Water Main Expansion - Phase 2	Water Main Expansion - Phase 3	Water Main Expansion - Phase 4	Water Main Expansion - Phase 5	Water Main Expansion - Phase 6	Water Main Expansion - Phase 7	Total
2024	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2025	\$0	\$0	\$3,624,500	\$845,250	\$0	\$0	\$0	\$0	\$0	\$0	\$4,469,750
2026	\$0	\$109,250	\$3,624,500	\$845,250	\$369,125	\$0	\$0	\$0	\$0	\$0	\$4,948,125
2027	\$0	\$0	\$0	\$0	\$1,107,375	\$158,688	\$0	\$0	\$0	\$0	\$1,266,063
2028	\$465,750	\$0	\$0	\$0	\$0	\$476,063	\$734,125	\$287,688	\$0	\$0	\$1,963,625
2029	\$465,750	\$0	\$0	\$0	\$0	\$0	\$734,125	\$863,063	\$263,563	\$0	\$2,326,500
2030	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$790,688	\$514,063	\$1,304,750
2031	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,542,188	\$1,542,188
2032	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2033	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2034	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2035	\$0	\$0	\$125,400.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$125,400
2036	\$0	\$0	\$1,128,600.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,128,600
2037	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2038	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2039	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2040	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2041	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2042	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2043	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2044	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$931,500	\$109,250	\$8,503,000	\$1,690,500	\$1,476,500	\$634,750	\$1,468,250	\$1,150,750	\$1,054,250	\$2,056,250	\$19,075,000

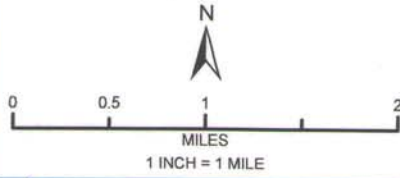
Note: All figures are based upon 2024 dollars.

APPENDIX A

Service Area Map



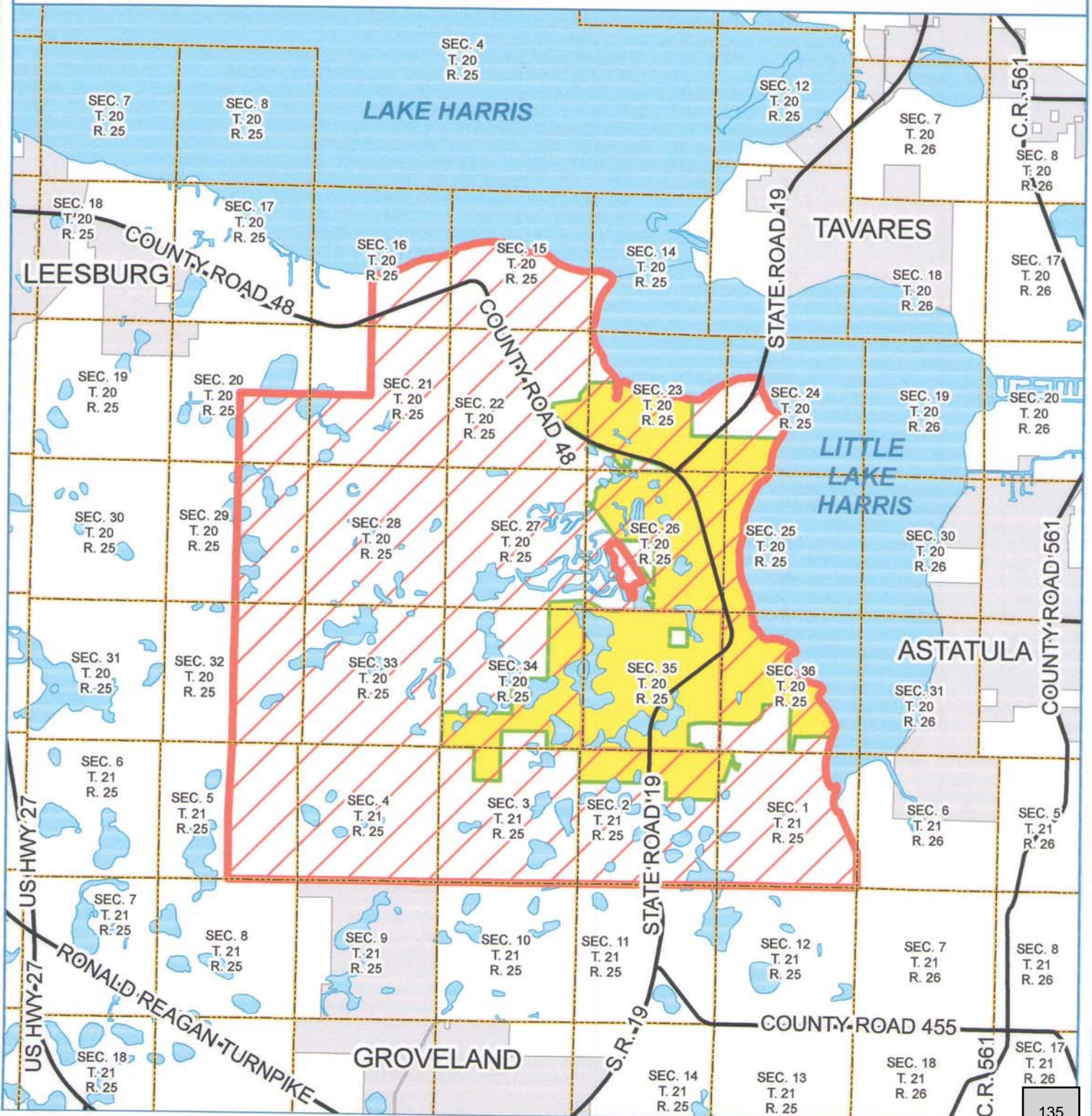
TOWN OF HOWEY-IN-THE-HILLS UTILITY SERVICE AREA MAP



LEGEND

- MAJOR ROADS
- LAKES OR PONDS
- INCORPORATED AREAS
- TOWN OF HOWEY-IN-THE-HILLS
- SECTION, TOWNSHIP, RANGE
- HOWEY-IN-THE-HILLS UTILITY SERVICE AREA

SOURCES: LAKE COUNTY AND TOWN OF HOWEY-IN-THE-HILLS



APPENDIX B

Future Land Use Map



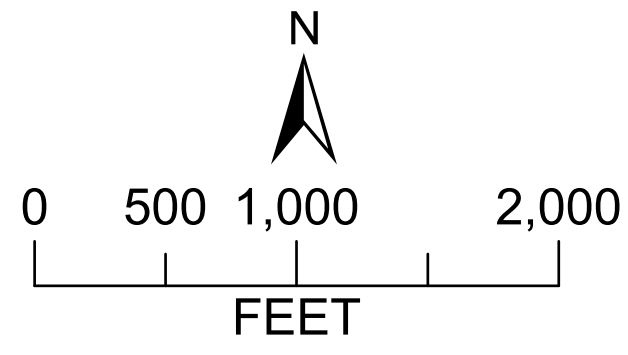
TOWN OF HOWEY-IN-THE-HILLS 2025 FUTURE LAND USE MAP



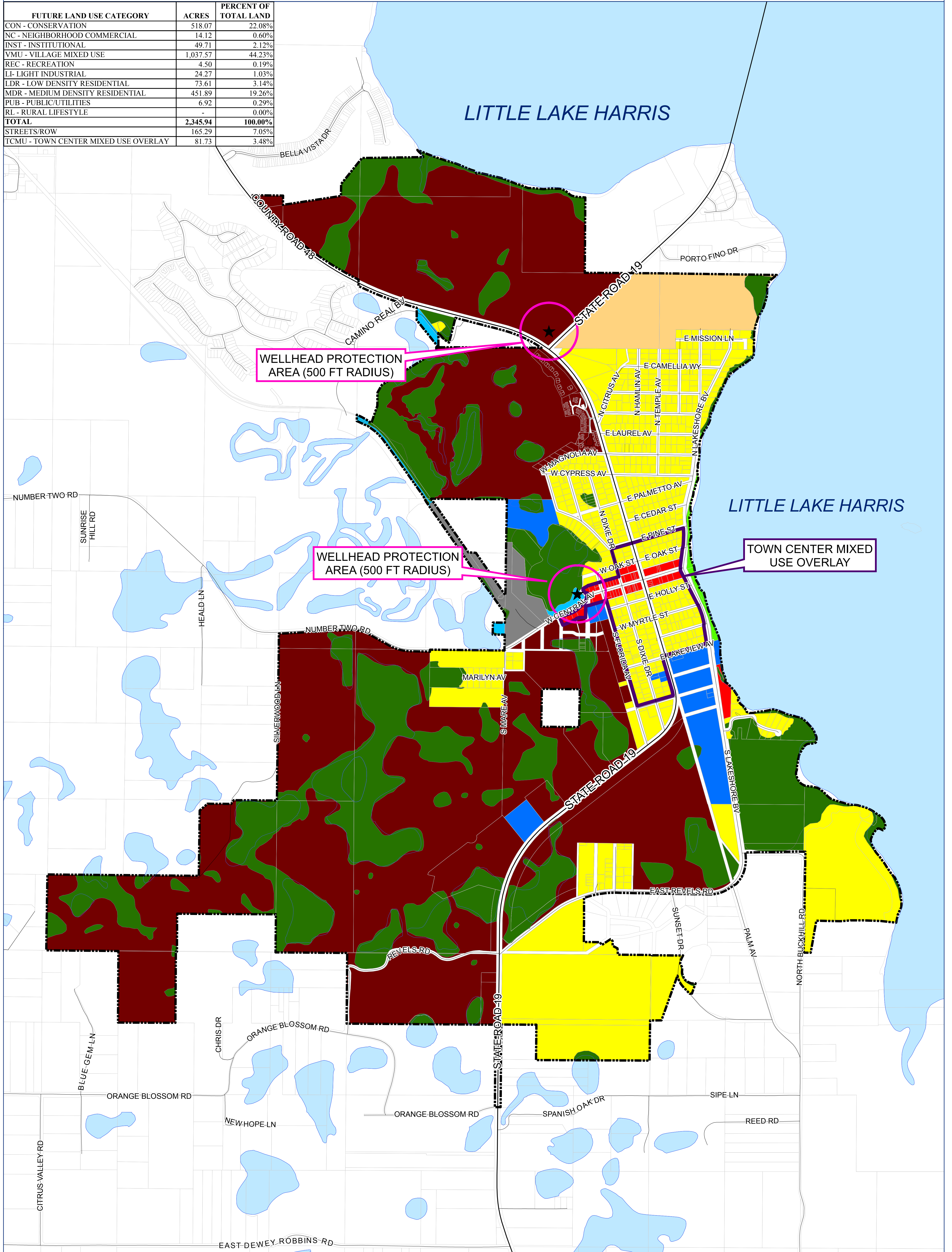
SOURCES: HOWEY-IN-THE-HILLS AND LAKE COUNTY.
 ***NOTE - THIS MAP AND DIGITAL DATA IS FOR PLANNING PURPOSES ONLY AND SHOULD NOT BE USED TO DETERMINE THE PRECISE LOCATION OF A FEATURE. ACREAGE ARE APPROXIMATE AND GIS DERIVED.

LEGEND

- LOCAL ROADS
- ★ POTABLE WATER WELLHEAD
- WELLHEAD PROTECTION AREA (500 FT RADIUS)
- LAKES OR PONDS
- PARCELS
- TOWN LIMITS
- FUTURE LAND USE**
- CON - CONSERVATION
- INST - INSTITUTIONAL
- LDR - LOW DENSITY RESIDENTIAL
- LI - LIGHT INDUSTRIAL
- MDR - MEDIUM DENSITY RESIDENTIAL
- NC - NEIGHBORHOOD COMMERCIAL
- PUB - PUBLIC/UTILITY
- REC - RECREATION
- VMU - VILLAGE MIXED USE
- TCMU - TOWN CENTER MIXED USE OVERLAY



FUTURE LAND USE CATEGORY	ACRES	PERCENT OF TOTAL LAND
CON - CONSERVATION	518.07	22.08%
NC - NEIGHBORHOOD COMMERCIAL	14.12	0.60%
INST - INSTITUTIONAL	49.71	2.12%
VMU - VILLAGE MIXED USE	1,037.57	44.23%
REC - RECREATION	4.50	0.19%
LI - LIGHT INDUSTRIAL	24.27	1.03%
LDR - LOW DENSITY RESIDENTIAL	73.61	3.14%
MDR - MEDIUM DENSITY RESIDENTIAL	451.89	19.26%
PUB - PUBLIC/UTILITIES	6.92	0.29%
RL - RURAL LIFESTYLE	-	0.00%
TOTAL	2,345.94	100.00%
STREETS/ROW	165.29	7.05%
TCMU - TOWN CENTER MIXED USE OVERLAY	81.73	3.48%



APPENDIX C

Consumptive Use Permit



St. Johns River Water Management District

Item 6.

Michael A. Register, P.E., Executive Director

4049 Reid Street • P.O. Box 1429 • Palatka, FL 32178-1429 • 386-329-4500 • www.sjrwmd.com

March 12, 2024

Town of Howey-in-the-Hills
101 N. Palm Avenue
Howey In Hills, FL 34737-3418

SUBJECT: Town of Howey-In-The-Hills, Consumptive Use Permit Number 2596-9
Lake County, Florida

Dear Sir/Madam:

Enclosed is the permit authorized by the District on March 12, 2024. The enclosed permit is a legal document and should be kept with other important records. Please read the permit and conditions carefully because the referenced conditions may require submittal of additional information. Where possible, please submit all information required to comply with permit conditions electronically at www.sjrwmd.com/permitting via the District's e-Permitting portal.

Please be advised that the period of time within which a third party may request an administrative hearing on this permit may not have expired by the date of issuance. A potential petitioner has 26 days from the date on which the actual notice is deposited in the mail, or 21 days from publication of this notice when actual notice is not provided, within which to file a petition for an administrative hearing pursuant to Sections 120.569 and 120.57, Florida Statutes. Receipt of such a petition by the District may result in this permit becoming null and void.

If you have any questions concerning the permit, please contact Douglas Hearn in the Apopka Service Center at (407) 215-1465 or Kristian Holmberg in the Palm Bay Service Center at (321) 409-2121 or Clint Brown in the Apopka Service Center at (407) 215-1477

Sincerely,

Richard Burklew, Bureau Chief
Water Use Regulation

GOVERNING BOARD

Rob Bradley, CHAIR
FLEMING ISLAND

Maryam H. Ghyabi-White, VICE CHAIR
ORMOND BEACH

J. Chris Peterson, SECRETARY
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Ryan Atwood
MOUNT DORA

Doug Bourmique
VERO BEACH

Douglas Burnett
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Cole Oliver
MERRITT ISLAND

Janet Price
FERNANDINA BEACH

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
Post Office Box 1429
Palatka, Florida 32178-1429

PERMIT NO: 2596-9

DATE ISSUED: March 12, 2024

PROJECT NAME: Town of Howey-In-The-Hills

A PERMIT AUTHORIZING:

The District authorizes, as limited by the attached conditions, the use of 0.90 million gallons per day (mgd) annual average of groundwater from the Upper and Lower Floridan aquifers through 2029 for public supply use.

LOCATION: Lake County; Town of Howey-In-The-Hills
Sections 23, 26, 35 & 36; Township 20 South; Range 25 East

ISSUED TO:

Town of Howey-in-the-Hills
101 N. Palm Avenue
Howey In Hills, FL 34737-3418

The permittee agrees to hold and save the St. Johns River Water Management District and its successors harmless from any and all damages, claims, or liabilities which may arise from permit issuance. Said application, including all plans and specifications attached thereto, is by reference made a part hereof.

This permit does not convey to the permittee any property rights nor any rights or privileges other than those specified herein, nor relieve the permittee from complying with any applicable local government, state, or federal, rule, or ordinance.

This permit may be revoked, modified or transferred at any time pursuant to the appropriate provisions of Chapter 373, Florida Statutes and 40C-1, Florida Administrative Code.

PERMIT IS CONDITIONED UPON:

See conditions on attached "Exhibit A", dated March 12, 2024

AUTHORIZED BY: St. Johns River Water Management District
Division of Water Supply Planning and Assessment

By: 

Michael A. Register
Executive Director

"EXHIBIT A"
CONDITIONS FOR ISSUANCE OF PERMIT NUMBER 2596-9
Town of Howey-In-The-Hills
Date Issued March 12, 2024

1. With advance notice to the permittee, District staff with proper identification shall have permission to enter, inspect, observe, collect samples, and take measurements of permitted facilities to determine compliance with the permit conditions and permitted plans and specifications. The permittee shall either accompany District staff onto the property or make provision for access onto the property.
2. Nothing in this permit should be construed to limit the authority of the St. Johns River Water Management District to declare a water shortage and issue orders pursuant to Chapter 373, F.S. In the event of a declared water shortage, the permittee must adhere to the water shortage restrictions, as specified by the District. The permittee is advised that during a water shortage, reports shall be submitted as required by District rule or order.
3. Prior to the construction, modification or abandonment of a well, the permittee must obtain a water well permit from the St. Johns River Water Management District or the appropriate local government pursuant to Chapter 40C-3, F.A.C. Construction, modification, or abandonment of a well will require modification of the consumptive use permit when such construction, modification, or abandonment is other than that specified and described on the consumptive use permit application form.
4. Leaking or inoperative well casings, valves, or controls must be repaired or replaced as required to eliminate the leak or make the system fully operational.
5. The permittee's consumptive use of water as authorized by this permit shall not interfere with legal uses of water existing at the time of permit application. If interference occurs, the District shall revoke the permit, in whole or in part, to curtail or abate the interference, unless the interference associated with the permittee's consumptive use of water is mitigated by the permittee pursuant to a District-approved plan.
6. The permittee's consumptive use of water as authorized by this permit shall not have significant adverse hydrologic impacts to off-site land uses existing at the time of permit application. If significant adverse hydrologic impacts occur, the District shall revoke the permit, in whole or in part, to curtail or abate the adverse impacts, unless the impacts associated with the permittee's consumptive use of water are mitigated by the permittee pursuant to a District-approved plan.
7. The permittee shall notify the District in writing within 30 days of any sale, transfer, or conveyance of ownership or any other loss of permitted legal control of the Project and/or related facilities from which the permitted consumptive use is made. Where permittee's control of the land subject to the permit was demonstrated through a lease, the permittee must either submit documentation showing that it continues to have legal control or transfer control of the permitted system/project to the new landowner or new lessee. All transfers of ownership are subject to the requirements of Rule 40C-1.612, F.A.C. Alternatively, the permittee may surrender the consumptive use permit to the District, thereby relinquishing the right to conduct any activities under the permit.
8. A District-issued identification tag shall be prominently displayed at each withdrawal site by permanently affixing such tag to the pump, headgate, valve, or other withdrawal facility as provided by Rule 40C-2.401, F.A.C. The permittee shall notify the District in the event that a replacement tag is needed.

9. The permittee's consumptive use of water as authorized by this permit shall not adversely impact wetlands, lakes, rivers, or springs. If adverse impacts occur, the District shall revoke the permit, in whole or in part, to curtail or abate the adverse impacts, unless the impacts associated with the permittee's consumptive use of water are mitigated by the permittee pursuant to a District-approved plan.
10. The permittee's consumptive use of water as authorized by this permit shall not reduce a flow or level below any minimum flow or level established by the District or the Department of Environmental Protection pursuant to Section 373.042 and 373.0421, F.S. If the permittee's use of water causes or contributes to such a reduction, then the District shall revoke the permit, in whole or in part, unless the permittee implements all provisions applicable to the permittee's use in a District-approved recovery or prevention strategy.
11. The permittee's consumptive use of water as authorized by the permit shall not cause or contribute to significant saline water intrusion. If significant saline water intrusion occurs, the District shall revoke the permit, in whole or in part, to curtail or abate the saline water intrusion, unless the saline water intrusion associated with the permittee's consumptive use of water is mitigated by the permittee pursuant to a District-approved plan.
12. The permittee's consumptive use of water as authorized by the permit shall not cause or contribute to flood damage. If the permittee's consumptive use causes or contributes to flood damage, the District shall revoke the permit, in whole or in part, to curtail or abate the flood damage, unless the flood damage associated with the permittee's consumptive use of water is mitigated by the permittee pursuant to a District-approved plan.
13. All consumptive uses authorized by this permit shall be implemented as conditioned by this permit, including any documents incorporated by reference in a permit condition. The District may revoke this permit, in whole or in part, or take enforcement action, pursuant to Section 373.136 or 373.243, F.S., unless a permit modification has been obtained to address the noncompliance. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.
14. This permit does not convey to the permittee any property rights or privileges other than those specified herein, nor relieve the permittee from complying with any applicable local government, state, or federal law, rule, or ordinance.
15. A permittee may seek modification of any term of an unexpired permit. The permittee is advised that Section 373.239, F.S., and Rule 40C-2.331, F.A.C., are applicable to permit modifications.
16. Following the effective date of the re-evaluated Minimum Flows and Levels (MFL), adopted pursuant to 373.042, F.S., for Lake Apshawa South this permit is subject to modification during the term of the permit, upon reasonable notice by the District to the permittee, to achieve compliance with any approved MFL recovery or prevention strategy for Lake Apshawa South. The permittee's participation in implementing an approved MFL prevention/recovery strategy shall be limited to offsetting or mitigating the impact of the permittee's groundwater allocation on these MFLs. The District shall revoke the permit in whole or in part, if the permittee fails to implement its portion of any approved prevention/recovery strategy for any of these MFLs in accordance with the schedule included in the strategy. Nothing herein shall be construed to alter the District's authority to modify a permit under circumstances not addressed in this condition.
17. All irrigation shall be in conformity with the requirements set forth in subsection 40C-2.042(2), F.A.C.

- 18. All submittals made to demonstrate compliance with this permit must include CUP number 2596-9 labeled on the submittal. Submittals should be made on-line at www.sjrwmd.com/permitting whenever possible.
- 19. This permit will expire on March 12, 2029.
- 20. Maximum annual combined groundwater withdrawals from the Upper Floridan aquifer and Lower Floridan aquifer for public supply use must not exceed 328.5 million gallons (0.90 mgd annual average).
- 21. Prior to use, all existing and proposed wells must be equipped with totalizing flow meters. All flow meters must measure within +/- 5% of actual flow, be verifiable and be installed according to the manufacturer's specifications.
- 22. The permittee shall meter all service connections.
- 23. The permittee must maintain all flowmeters and alternative methods for measuring flow. In case of failure or breakdown of any meter, the District must be notified in writing within 5 days of its discovery. A defective meter must be repaired or replaced within 30 days of its discovery.
- 24. The permittee must have all flow meters checked for accuracy at least once every 10 years, specifically before March 31, 2026, and recalibrated if the difference between the actual flow and the meter reading is greater than 5%. Flow Meter Accuracy Report Form (EN-51) must be submitted to the District within 30 days of the inspection/calibration.
- 25. Total withdrawal from the following stations must be recorded continuously, totaled monthly, and reported to the District at least every six months for the duration of this permit using Water Use Pumpage Report Form (EN-50). Reporting is required, even if there is no use.

Station Name	Station ID	Source
2 (WTP No. 1)	9557	Upper Floridan aquifer
3 (WTP No. 2)	9558	Upper Floridan aquifer
4A (WTP No. 1)	421002	Upper Floridan aquifer
5 (WTP No. 3)	39899	Lower Floridan aquifer
6 (WTP No. 3)	540961	Lower Floridan aquifer

The reporting dates each year will be as follows:

<u>Reporting Period</u>	<u>Report Due Date</u>
January - June	July 31
July - December	January 31

- 26. By December 31, 2024, the permittee shall provide documentation for District approval of the process implemented for recording and reducing or eliminating unmetered water uses including, but not limited to, main breaks, sewer cleaning, and water quality flushing.
- 27. The permittee must implement the water conservation plan finalized on January 16, 2024, in accordance with the schedule contained therein.

- 28. The Town shall provide documentation by December 31, 2024, demonstrating that it has amended its land use code and adopted an ordinance that is in substantial conformance with the one proposed by the Town and provided as Attachment D of the water conservation plan finalized on January 16, 2024. In addition, the Town’s website will be updated to include the ordinance and current water conservation plan.□
- 29. The Town is proposing a requirement for stormwater reuse to the extent economically, technically, and environmentally feasible for all new developments. The generated surface water will be available for landscape irrigation purposes for the new construction and proposed developments. The Town will provide an annual summary report listing all new developments approved and/or under construction, and the quantity of stormwater reuse that will be used within each for landscape irrigation. The report is due January 31, 2025.
- 30. The permittee must continue monitoring of wetlands and/or surface waters for each of the areas listed below, including monitoring surficial, intermediate and/or Floridan aquifer groundwater levels associated with each wetland and/or surface water monitoring site, as needed:

Monitoring Site:

- 1. Unnamed marsh located north of W. Central Ave, (Section 26, Township 20 South, Range 25 East).

- 31. Groundwater level data associated with the wetland and/or surface water monitoring must be collected for the site listed in the following table and submitted electronically every six months to the District utilizing the Water Level Data-Wetland Monitoring Template, for the wetland monitoring site. The template is available through the District’s e-Permitting website. Alternative submittal formats must be approved by the District. Data collected January through June must be submitted on or before July 31st of each year. Data collected July through December must be submitted on or before January 31st of each year.

Data collection must include water levels (weekly without data loggers, daily with data loggers) from wetland surficial aquifer monitoring wells. Data must be reported as elevation relative to North American Vertical Datum (NAVD) of 1988.

Wetland Monitoring Sites

Station ID	Station Name (wetland/surface water)	Source	Location
427180	LI-MW 1	SA	(28.712158° N, -81.77749° W)

- 32. On or before March 31st, the permittee must submit an annual report summarizing the monitoring efforts and comparing all of the wetland monitoring data recorded for the last calendar year and previous years. The report must include panoramic photographs taken in September at the established photo stations, and a summary of wetland monitoring data. In addition, the report will include a brief analysis of any data trends.
- 33. If the permittee is unable to obtain or maintain legal access to the monitoring site referenced above, the permittee must notify the District in writing within 15 days of concluding that access to any specific site is not possible. Within 45 days of this notification, the permittee must submit an alternative site to modify the monitoring network. Within six months of District approval of the monitoring network modification, the permittee must implement the approved change(s).

34. The construction of proposed wells 5 (Station ID #39899) and well 6 (Station ID #540961) shall be completed by December 31, 2024. The installation of observation wells and completion of the APT and any associated reports shall be completed as specified in Limiting Conditions 36 and 37. Additionally, the installation of permanent pumps and piping will be completed when the new water treatment plant is constructed.

35. During the construction of proposed well 5 (Station ID #39899) and well 6 (Station ID #540961) the permittee must conduct the following tests and submit the testing results to the District within 90 days of completion of the testing:

(a) Downhole field water quality testing for chlorides, sulfates and specific conductivity taken during drilling, at the end of each drill rod or 30-foot intervals, upon penetration of the Floridan aquifer, or when the drilling method changes from mud-rotary to the reverse-air/direct-air drilling technique. Any change in these parameters of 20% or greater between consecutive samples will require that the permittee collect a sample for laboratory analysis for those major anions and cations listed in Appendix F of the Applicant's Handbook.

All major ion analyses must be checked for anion-cation balance and must balance within 10%. It is recommended that duplicates be taken to allow for laboratory errors or data loss.

(b) A suite of geophysical logs (gamma, electrical resistivity, caliper, flow, and fluid resistivity) and a video log of the well. All logs must be submitted to the District in hard copy and electronically in LAS format.

(c) GPS (latitude, longitude) and a site map location of the well.

(d) Water quality testing upon completion of the well for:

Field

- Field temperature (oC)
- Field pH
- Field specific conductance (umhos/cm)
- Field turbidity (NTU)

Laboratory

Calcium (mg/L), Magnesium (mg/L), Potassium (mg/L), Sodium (mg/L), Total iron (mg/L), Chloride (mg/L), Sulfate (mg/L), Strontium (mg/L), Bicarbonate Alkalinity (as mg/L CaCO3), Carbonate Alkalinity (as mg/L CaCO3), Total Dissolved Solids (mg/L), Specific Conductance (umhos/cm or uS/cm)

Sample Collection

Groundwater samples must be collected in accordance with the Florida Department of Environmental Protection's (FDEP) standard operating procedures (SOP), DEP-SOP-001/01, DEP Quality Assurance Rule, 62-160, F.A.C.

The well must be purged in accordance with the appropriate procedure in DEP-SOP-001/01, as necessary to evacuate water from the well column and induce groundwater representative of the hydrogeologic formation into the well prior to sampling. Purged water must be sampled and analyzed in the field for the following parameters:

- Water Temperature (oC)
- pH (SU)
- Specific Conductance (umhos/cm or uS/cm)
- Turbidity (NTU)

Purging must be documented using the Groundwater Sampling Log form referenced in the FDEP SOP or equivalent.

Water samples must be stored on ice immediately after collection and remain on ice until received by the laboratory. It is recommended that sample duplicates be taken to allow for laboratory errors or data loss, and these samples be stored by the laboratory for a minimum of 60 days to ensure backup sample availability should re-analyses be required.

Quality Assurance

The permittee must provide documentation that field instruments were properly calibrated prior to obtaining field measurements during purging and sampling.

All water quality analyses must be performed by a laboratory certified by the Florida Department of Health (FDOH) and the National Environmental Laboratory Accreditation Program (NELAP). All laboratory analyses must be by methods for which the laboratory has FDOH certification. All laboratory analyses must be completed within EPA holding times. If data is lost or a laboratory error occurs and the EPA holding time for an analysis has expired, the permittee must have the well re-sampled within 15 days of notification from the laboratory that a loss or laboratory error has occurred. The resample shall be collected according to the procedures described above and analyzed for the field parameters and the major ion suite listed above.

With the exception of pH, laboratory analyses utilizing selective ion electrodes are not acceptable due to the inadequate sensitivity of these methods. Analyses utilizing test kits typically used for field screening (e.g., Hach and LaMotte) are also not acceptable for the same reason.

All major ion analyses must be checked for anion-cation balance (equivalent concentration in meq/L) and must not exceed 10% difference. If the ion balance exceeds 10% difference, the permittee must review the data and include in the report submitted to the District, a discussion of the cause or explanation of the imbalance. The permittee may also be required to have the sample re-analyzed if it is within acceptable holding times or have the well re-sampled. The resample shall be collected according to the procedures described above and analyzed for the four field parameters and the major ion suite.

Reports

A report must be submitted to the District within 30 days of receipt of data analysis from the laboratory. The report must include the following:

- Table summarizing results for field measurements and laboratory chemical analyses
- Well sampling log
- Field instrument calibration verification
- Chain of custody forms (if outsourced)
- Laboratory analytical report (if outsourced)

All data must be submitted to the District in a District-approved electronic format readable by the District's computerized database.

36. At least 60 days prior to the construction of proposed wells 5 (Station ID #39899) and 6 (Station ID #540961), an aquifer testing plan must be submitted for District approval, in accordance with the Guidelines for Developing and Conducting an Aquifer Performance Testing Program outlined in Appendix D of the Applicant's Handbook, Consumptive Uses of Water. □ If the APT test results indicate a significant difference from the previously modeled groundwater parameters, the permittee may be required to conduct a revised impact assessment as part of the hydrogeological report and evaluation utilizing the new data.
37. No later than 90 days after the APT is completed, the permittee shall provide an APT final report ("APT Report") documenting well construction, APT procedures, data analysis, and APT results to the District for review and approval. The APT report shall be signed and sealed by a Florida Registered Professional Geologist.
38. The permittee must conduct a detailed annual water audit and submit it to the District by February 28th of each year. All water uses given in the audit must be for the previous calendar year and documentation provided on how the amounts were metered or determined. If the water audit shows that the system losses and unaccounted for water utility uses exceed 10%, a corrective action plan and annual water audit must be submitted together until the unaccounted for water losses do not exceed 10%. After two consecutive years of water audits that do not exceed 10%, the permittee may reduce the water audit frequency to no more than two years.
39. The permittee must provide an annual water conservation and alternative water source status report to the District, by February 28th of each year. At a minimum, the report must include:
 - (a) an update on implementation of water conservation activities designed to reduce per capita water use;
 - (b) details on new potential water conserving projects or activities, including type of projects and projected implementation dates; and
 - (c) an update on the progress made toward utilizing or participating in alternative water source projects, including but not limited to reclaimed water, surface water or other alternative sources of water, that would result in offsetting groundwater withdrawals.
40. The permittee shall use the lowest quality water source, such as reclaimed water, surface/storm water, or alternative water supply, to supply the needs of the project when deemed feasible pursuant to District rules and applicable state law.
41. When determined to be economically, environmentally, and technically feasible by the District, based on well construction and aquifer performance testing, the Lower Floridan aquifer must be maximized to the extent possible as a source of water.

APPENDIX D

2020 Water Audit

Bolling Engineering, LLC

PO Box 540576
Orlando, FL 32854
(407) 900-9835
www.bollingengineering.com

May 10, 2021

TO: Mayor Martha MacFarlane
Town of Howey-in-the-Hills, FL
101 N Palm Ave
Howey-In-The-Hills, FL 34737

SUBJECT: **2020 Potable Water Audit**
Consumptive Use Permit 2596

Dear Mayor MacFarlane,

Attached find the 2020 potable water audit and supporting documentation for the Town of Howey-in-the-Hills Consumptive Use Permit (CUP) 2596. The 2020 unaccounted-for water loss from the treatment and distribution systems was calculated to be **14.2%** based on the following information provided by the Town:

- Raw water and finished water produced
- Consumption data (billing)
- Estimated utility uses
- Estimated leaks and breaks

An unaccounted-for water loss value greater than 10% is considered a significant amount to the SJRWMD and identifying the cause of the high unaccounted-for water loss will be crucial during the CUP application review process. The result of this audit is anticipated to generate a Request for Additional Information for a corrective action plan which could ultimately involve a costly meter survey and a leak detection evaluation as required by the SJRWMD Consumptive Uses of Water Applicant's Handbook (A.H.) Section 2.2.2.5.1.A.4.

A water loss corrective action plan typically begins with data validation since audit results are only as good as the data inputs. Considering that the Town is nearing completion of its meter inventory and staff are confident that all consumption is accounted for and meters are functioning within acceptable limits, Bolling Engineering recommends implementing a program to better estimate and record utility uses such as leaks and main breaks. The 2020 water audit includes numerous assumptions for utility uses and these assumptions should be verified by performing additional audits. A mid-year and annual water audit for the 2021 calendar year use is also recommended to measure water loss reduction progress. Additional corrective actions may be needed if water loss remains above 10%.

Should you have any questions, please do not hesitate to contact the undersigned.

Sincerely,
Bolling Engineering, LLC.



Jennifer Bolling, P.E.
President

c: John Earnest, Town of Howey
JJ Southall, Town of Howey
Sarah M. Whitaker, P.G./SMW GeoSciences, Inc.

SJRWMD AUDIT FORM



St. Johns River Water Management District Water Audit Form



GENERAL AUDIT INFORMATION

Utility Name:	Town of Howey-in-theHills
CUP Number:	2596
Audit Study Period (beginning and ending mo/dy/yr):	January 1, 2020 to December 21, 2020

The water audit is designed to provide assurances of water accountability within the treatment and water distribution systems. The information provided below must reflect volumes covering a period of at least 12 consecutive months.

TASK 1: TREATMENT SYSTEM

Line	Treatment System	Million Gallons
1A	Raw water produced	151.51
1B	Raw water purchased	
1C	Finished water purchased	
1D	Total water produced and purchased (sum of lines 1A – 1C)	151.51
1E	Metered uses in treatment	
1F	Unmetered but known uses in treatment	
1G	Total water used in treatment (line 1E plus line 1F)	
1H	Total water produced and purchased for distribution (line 1D minus line 1G)	151.51
1I	Metered finished water entering the distribution system	151.51
1J	Change in reservoir and tank storage (If increase, subtract) (If decrease, add)	
1K	Total water unaccounted for in the treatment process (line 1H minus line 1I, plus or minus line 1J)	0.00

TASK 2: DISTRIBUTION SYSTEM – METERED USES¹

Line	Metered Use	Million Gallons
2A	Small and medium meter use (5/8 inch – 3 inches)	120.783
2B	Large meter use (greater than 3 inches)	
2C	Adjustment due to meter lag time	
2D	Sum of lines 2A – 2C	120.78

¹The applicant must perform a meter survey (see instructions and the attached survey form) if the initial unaccounted for water loss is 10% or greater (as listed in line 4F). When a meter survey is performed, the information submitted in Task 2 must be corrected pursuant to the meter survey.

TASK 3: DISTRIBUTION SYSTEM – METERED USES NOT COVERED IN TASK 2 AND UNMETERED USES				
Line	Unmetered or Other Use	Million Gallons	Documented ¹	Undocumented/ Negligible ²
3A	Irrigation		<input type="checkbox"/>	
3B	Swimming pools		<input type="checkbox"/>	
3C	Sewer cleaning		<input type="checkbox"/>	
3D	Water quality flushing	0.10	<input checked="" type="checkbox"/>	
3E	Firefighting		<input type="checkbox"/>	
3F	Construction flushing		<input type="checkbox"/>	
3G	Main breaks	6.99	<input checked="" type="checkbox"/>	
3H	Schools		<input type="checkbox"/>	
3I	Decorative fountains		<input type="checkbox"/>	
3J	Allowable line loss	0.29	<input checked="" type="checkbox"/>	
3K	Other Uses			
	Tank wq flushing	0.21	<input checked="" type="checkbox"/>	
	Drained tanks twice	0.78	<input checked="" type="checkbox"/>	
	Register replacement	0.79	<input checked="" type="checkbox"/>	
3L	Total (sum of lines 3A-3K)	9.16		

¹Check if the water use estimate is documented. Only documented use estimates will be accepted for items 3A-3K. Documentation must take the form of metered reports, journal entries or other records. Attach all documentation for these uses.

²Check if the amount represents a very small part of the overall total water use **or** if the amount is not documented.

[Documentation provided by the Town for unmetered uses listed above are attached.](#)

TASK 4 – SUMMARY OF WATER USE		
Line	Water Use	Million Gallons
4A	Total water from distribution system (line 2D plus line 3L)	129.94
4B	Total finished water pumped into distribution system (line 1I)	151.51
4C	Finished water purchased after WTP master meter (not previously accounted for in TASK 1)	
4D	Sum of finished water going into the distribution system (sum line 4B and 4C)	151.51
4E	Total unaccounted for water loss from distribution (line 4D minus line 4A)	21.57
4F	Total unaccounted for water from treatment and distribution systems (sum line 1K and line 4E)	21.57
4G	Percent total unaccounted for loss from treatment and distribution systems (divide line 4F by the sum of lines 4C plus 1H, then multiply by 100)	14.24%

TASK 1: TREATMENT SYSTEM DOCUMENTATION

Town of Howey EN50 & MOR Total

Month	2020 Corrected EN50s (Gallons)			
	Well 2	Well 3	Well 4	Total
Jan	5,741,700	4,475,000	2,244,000	12,460,700
Feb	7,251,400	3,450,000	1,507,000	12,208,400
Mar	5,436,500	4,623,000	4,795,000	14,854,500
Apr	4,679,200	4,119,100	4,169,000	12,967,300
May	5,355,550	4,966,000	4,882,500	15,204,050
June	4,431,100	5,500,000	4,247,000	14,178,100
Jul	4,265,000	5,616,000	4,062,000	13,943,000
Aug	3,858,100	3,800,000	3,635,000	11,293,100
Sept	3,516,900	4,805,000	3,176,000	11,497,900
Oct	3,797,500	4,593,000	3,347,000	11,737,500
Nov	3,670,600	3,468,000	3,458,000	10,596,600
Dec	3,359,300	4,075,000	3,131,000	10,565,300
Total By Well	55,362,850	53,490,100	42,653,500	151,506,450

The Town reports the same data for EN50s and MORs

**TASK 2:
DISTRIBUTION SYSTEM – METERED USES
DOCUMENTATION**

Town of Howey 2020 Billing Data Summary

USER TYPE	GALLONS
BUILDER	4,067,000
COMMERCIAL	5,114,000
COMMERCIAL RENTER	140,000
IRRIGATION	50,310,000
RESIDENTIAL	58,853,000
RESIDENTIAL RENTER	2,299,000
TOTAL	120,783,000

**TASK 3:
DISTRIBUTION SYSTEM –
METERED USES NOT COVERED IN TASK 2 AND
UNMETERED USES DOCUMENTATION**

TOWN OF HOWEY LINE FLUSHING

Line Flushing = 100,000 gal

Water Loss Report for 2020

- 19 Leaks repaired
- 2 Main Breaks
- Flushed approximately 100,000 gallons

Thanks,

Steve Guba, JJ Southall

TOWN OF HOWEY BREAK AND LEAK ESTIMATES

Leak and Break Total = 6,987,180 Gal

(Estimated per emails and discussions with the Town and URE)


4" Break for 4 hours 1,243,000 gal
assume break width = 2"; 4 hours to detect

6" Break for 4 hours 3,729,000 gal
assume break width = 4"; 4 hours to detect
complete separation

Circular Break Around Pipe

Dia of Pipe, in inches:	<input type="text" value="4"/>
Width of Break, in inches:	<input type="text" value="2"/>
Pressure in Pipe, in PSI:	<input type="text" value="60"/>
Leak Time, in hours:	<input type="text" value="4"/>
GPM Flow lost from leak:	<u>5179.17</u>
Total Water Lost, in gallons:	<u>1,243,000.8</u>


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Circular Break Around Pipe

Dia of Pipe, in inches:	<input type="text" value="6"/>
Width of Break, in inches:	<input type="text" value="4"/>
Pressure in Pipe, in PSI:	<input type="text" value="60"/>
Leak Time, in hours:	<input type="text" value="4"/>
GPM Flow lost from leak:	<u>15537.5</u>
Total Water Lost, in gallons:	<u>3,729,000</u>

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19 leaks x 59,270 1,126,130 gallons
assume length of break = 1" and width of crack - 0.1
48 hours to detect

15 curb stop leaks x 59,270 889,050 gallons
assume length of break = 1" and width of crack - 0.1
2 days to detect

Rectangular Break Along Pipe

Length of Break, in inches:	<input type="text" value="1"/>
Width of Break, in inches:	<input type="text" value=".1"/>
Water Pressure, in PSI:	<input type="text" value="60"/>
Leak Time, in hours:	<input type="text" value="48"/>
GPM Flow lost from leak:	<u>20.58</u>
Total Water Lost, in gallons:	<u>59,270.4</u>


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Rectangular Break Along Pipe

Length of Break, in inches:	<input type="text" value="1"/>
Width of Break, in inches:	<input type="text" value=".1"/>
Water Pressure, in PSI:	<input type="text" value="60"/>
Leak Time, in hours:	<input type="text" value="48"/>
GPM Flow lost from leak:	<u>20.58</u>
Total Water Lost, in gallons:	<u>59,270.4</u>

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TOWN OF HOWEY BREAKS AND LEAKS

 **Steven guba** Mon, Mar 22, 7:05 PM (13 days ago) ☆ ↶ ⋮
to me ▾

Hi Jen,

Here are the main breaks and pipe sizes.

3/21/20- 4" Main Break on Mission Lane
8/21/20- 6" Main Break on Central Ave

The 15 curb stops are additional to the 19 service line leaks.

I hope this is helpful. Please let me know if you have any questions


Thanks,

Steve

⋮

--

Steve Guba



Water Loss Report for 2020

- 19 Leaks repaired
- 2 Main Breaks
- Flushed approximately 100,000 gallons

Thanks,

Steve Guba, JJ Southall

Howey water loss Inbox x ⌵ 🖨️ 📧

James Southall <jsouthall@howey.org> Thu, Mar 18, 8:27 AM ☆ ↶ ⋮
to me ▾

Good Morning Jennifer,

After our talk last week, I had URE check into the curb stop replacements that were done last year, and we replaced 15 of them. Most of those were for leaks and not operating correctly. There is honestly no way I could give you the exact time each had been leaking but normally it takes us between 1-4 days to repair after we find, or they are reported to us depending on how busy the field crew is to replace them. Thought I would pass that along to you for the water loss.

Thank you
JJ


Town of Howey-in-the-Hills Allowable Leakage Calculation for 2020					
$L = \frac{S \cdot D \cdot P^{1/2}}{133,200}$		where:			
		L= Allowable Leakage			
		S= Length of Pipe in Feet			
		D= Diameter of Pipe			
		P= System Pressure			
Assumptions:					
Length of Pipe (from City) * =		98,525		miles	
System Pressure Estimate=		45-50 psi			
Pipe Diameter (varies) represents average throughout City					
S (ft)	D (in)	P (psi)	L (gph)	L (GPD)	L (MGY)
1,675	2	50	0	4	0.002
1,310	4	50	0	7	0.002
72,525	6	50	23	554	0.202
22,275	8	50	9	227	0.083
	10	50	0	0	0.000
740	12	50	0	11	0.004
	16	50	0	0	0.000
	20	50	0	0	0.000
total					0.293

Water Master Plan June 2018:

Table 13 Estimated Lengths of Potable Water Piping (Linear Feet)						
2"	4"	6"	8"	10"	12"	Total
1,675	1,310	72,525	22,275	---	740	98,525

Town of Howey Register Replacement

195 Registers x 1 month use estimated at 4,000 gallons 780,000 gallons

 **Steven guba**
to me ▾ 3:03 PM (4 minutes ago) ☆ ↶ ⋮

Sent from my iPhone

Begin forwarded message:

From: Steven guba <sguba6@gmail.com>
Date: March 21, 2021 at 3:22:46 PM EDT
To: James Southall <jsouthall@howey.org>
Subject: Re: Water loss

Hi JJ,

Only one of the curb stop replacements had a size and it was a 1.5" service line .
Also, in 2020 we replaced 195 meter registers .

Please let me know if you need any additional information.

Thanks,

Steve

Town of Howey 2020 Tank Flushing

Drain the tank 780,000 Gal
Tank Flushing (assume 4 208,000 Gal

James Southall
to me, Martha, John ▾

Thu, May 6, 6:45 AM (3 days ago) ☆ ↶ ⋮

Good morning Jennifer,

I wanted to double check with our lead operator on the tank flushing to make sure. We have drained the tank from 15 ft to empty twice that is roughly 780,000 gallons.

He also flushes about a foot of water from the tank every couple of months to help with the roughly 8 ft of water in the tank that does not get used due to the tank sitting below the grade of the HSPs at the plant. So that would be 52,000 gallons on 2 flushes.

Hope those numbers help.

Thank you
JJ

SJRWMD AUDIT FORM

2020 Audit based upon EN-50 data

SMW and Bolling Engineering were informed that the EN-50 and MOR data should be the same, but the data reported did not support this. This is a water audit based upon EN-50 data and MOR data.

Item 6.



St. Johns River Water Management District Water Audit Form



GENERAL AUDIT INFORMATION

Utility Name:	Town of Howey-in-theHills
CUP Number:	2596
Audit Study Period (beginning and ending mo/dy/yr):	January 1, 2020 to December 21, 2020

The water audit is designed to provide assurances of water accountability within the treatment and water distribution systems. The information provided below must reflect volumes covering a period of at least 12 consecutive months.

TASK 1: TREATMENT SYSTEM

Line	Treatment System	Million Gallons
1A	Raw water produced	149.15
1B	Raw water purchased	
1C	Finished water purchased	
1D	Total water produced and purchased <i>(sum of lines 1A – 1C)</i>	149.15
1E	Metered uses in treatment	
1F	Unmetered but known uses in treatment	
1G	Total water used in treatment <i>(line 1E plus line 1F)</i>	
1H	Total water produced and purchased for distribution <i>(line 1D minus line 1G)</i>	149.15
1I	Metered finished water entering the distribution system	151.51
1J	Change in reservoir and tank storage <i>(If increase, subtract) (If decrease, add)</i>	
1K	Total water unaccounted for in the treatment process <i>(line 1H minus line 1I, plus or minus line 1J)</i>	-2.36

TASK 2: DISTRIBUTION SYSTEM – METERED USES¹

Line	Metered Use	Million Gallons
2A	Small and medium meter use <i>(5/8 inch – 3 inches)</i>	120.783
2B	Large meter use <i>(greater than 3 inches)</i>	
2C	Adjustment due to meter lag time	
2D	Sum of lines 2A – 2C	120.78

¹The applicant must perform a meter survey (see instructions and the attached survey form) if the initial unaccounted for water loss is 10% or greater (as listed in line 4F). When a meter survey is performed, the information submitted in Task 2 must be corrected pursuant to the meter survey.

TASK 3: DISTRIBUTION SYSTEM – METERED USES NOT COVERED IN TASK 2 AND UNMETERED USES				
Line	Unmetered or Other Use	Million Gallons	Documented ¹	Undocumented/ Negligible ²
3A	Irrigation		<input type="checkbox"/>	
3B	Swimming pools		<input type="checkbox"/>	
3C	Sewer cleaning		<input type="checkbox"/>	
3D	Water quality flushing	0.10	<input checked="" type="checkbox"/>	
3E	Firefighting		<input type="checkbox"/>	
3F	Construction flushing		<input type="checkbox"/>	
3G	Main breaks	6.99	<input checked="" type="checkbox"/>	
3H	Schools		<input type="checkbox"/>	
3I	Decorative fountains		<input type="checkbox"/>	
3J	Allowable line loss	0.29	<input checked="" type="checkbox"/>	
3K	Other Uses			
	Tank wq flushing	0.21	<input checked="" type="checkbox"/>	
	Drained tanks twice	0.78	<input checked="" type="checkbox"/>	
	Register replacement	0.79	<input checked="" type="checkbox"/>	
3L	Total (sum of lines 3A-3K)	9.16		

¹Check if the water use estimate is documented. Only documented use estimates will be accepted for items 3A-3K. Documentation must take the form of metered reports, journal entries or other records. Attach all documentation for these uses.

²Check if the amount represents a very small part of the overall total water use **or** if the amount is not documented.

[Documentation provided by the Town for unmetered uses listed above are attached.](#)

TASK 4 – SUMMARY OF WATER USE		
Line	Water Use	Million Gallons
4A	Total water from distribution system (line 2D plus line 3L)	129.94
4B	Total finished water pumped into distribution system (line 1I)	151.51
4C	Finished water purchased after WTP master meter (not previously accounted for in TASK 1)	
4D	Sum of finished water going into the distribution system (sum line 4B and 4C)	151.51
4E	Total unaccounted for water loss from distribution (line 4D minus line 4A)	21.57
4F	Total unaccounted for water from treatment and distribution systems (sum line 1K and line 4E)	19.21
4G	Percent total unaccounted for loss from treatment and distribution systems (divide line 4F by the sum of lines 4C plus 1H, then multiply by 100)	12.9%

APPENDIX E

Sanitary Survey Reports



FLORIDA DEPARTMENT OF Environmental Protection

Central District Office
3319 Maguire Blvd., Suite 232
Orlando, Florida 32803

Ron DeSantis
Governor

Item 6.

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

June 15, 2022

Morgan Cates, Public Works Director
Town of Howey-in-the-Hills
P.O. Box 128
Howey-in -the -Hills, FL 34737
mcates@howey.org

Re: Howey-in-the-Hills
PW Facility ID #3350573
Lake County

Dear Mr. Cates:

Department personnel conducted an inspection of the above-referenced facility on April 19, 2022. Based on the information provided during the inspection, the facility was determined to be in compliance with the Department's rules and regulations. A copy of the inspection report is attached for your records.

The Department appreciates your efforts to maintain this facility in compliance with state and federal rules. Should you have any questions or comments, please contact Manuel F. Cardona at 407-897-4134 or via e-mail at Manuel.Cardona@FloridaDEP.gov.

Sincerely,

David Smicherko

David Smicherko, Environmental Manager
Central District
Florida Department of Environmental Protection

Enclosure: Inspection Report

cc: Mark McKinnon, mark.mckinnon@ymail.com
David Smicherko, Manuel Cardona, Central District

State of Florida
Department of Environmental Protection
Central District

SANITARY SURVEY REPORT

Plant Name HOWEY IN THE HILLS WTP1 County Lake PWS ID # 3350573
Plant Location 316 West Grant Street, Howey-in-the Hills, FL 34737 Phone 352-324-2526
Owner Name Town of Howey-in-the-Hills Phone 352-516-1346
Owner Address P.O. Box 128, Howey-in-the-Hills, FL 34737
Contact Person Morgan Cates Title Public Works Director Phone 352-805-0205
This Survey Date 4/19/22 Last Survey Date 4/16/19 Last Compliance Inspection Date 9/22/98

PWS TYPE: Community

PLANT CATEGORY & CLASS: 5C

MAX-DAY DESIGN CAPACITY: 1,800,000 gpd

PWS STATUS: Approved

RAW WATER SOURCE

GROUND; Number of Wells 2
 PURCHASED from PWS ID # _____
 Emergency Water Source WTP2
Emergency Water Capacity 720,000

STANDBY POWER SOURCE: Yes

Source Diesel Generator
Capacity of Standby (kW) 200
Switchover: Automatic Manual
Hrs Operated Under Load 1 hr/wk.
What equipment does it operate?
 Well Pumps All
 High Service Pumps All
 Treatment Equipment All
Satisfy avg. daily demand? Yes No Unknown
Audio-visual alarm? Yes No
Comments _____

TREATMENT PROCESSES IN USE

Gas chlorination, Aeration, Iron Sequestration
(Aqua-Mag, Stenner 40 GPD)

SERVICE AREA CHARACTERISTICS

Municipal/city
Food Service: Yes No N/A
Number of Service Connections 811
Population Served 2,027 Basis MOR

OPERATION & MAINTENANCE LOG: Yes

Location Office
Comments _____

CERTIFIED OPERATOR: Yes

Operator(s) & Certification Class-Number:
Mark McKinnon B-17855

Hrs/day: *Required* *Visit *Actual* *Visit
Days/wk: *Required* 5+1 *Actual* 5+1
Non-consecutive Days? Yes No N/A
Comments *Visits must total 0.6 hr/week.

MONTHLY OPERATION REPORTS (MORs)

MORs submitted regularly? Yes No N/A
Data missing from MORs? No Yes N/A
Average Day (from MORs) 121,353 gpd
Maximum Day (from MORs) 419,300 gpd 12/21
Comments _____

Flow Measuring Device Flow Meter
Meter Size & Type 8" Sparling
Date Last Calibrated 6/20/19

PLANS AND MAPS

Coliform Sampling Plan Yes No N/A
D/DBP Monitoring Plan Yes No N/A
Lead and Copper Plan Yes No N/A
Distribution System Map Yes No N/A
Emergency Response Plan Yes No N/A
Comments ERP was revised 4/18/2022

PREVENTIVE MAINTENANCE/O&M

Operation & Maintenance Manual Yes No
Preventive Maintenance Program Yes No N/A
Flushing Program Yes No N/A
Records Yes No N/A
Isolation Valve Exercise Yes No N/A
Records Yes No N/A
Comments Flush hydrants monthly, no dead-ends, no blowoffs or auto flushers. Isolation valves are executed annually.

CROSS CONNECTION CONTROL

BFPAs 72 # Tested 15 (2022)
WWTP RPZ N/A Date Tested N/A
Written Plan Yes Date 7/18/16
Comments Dual checks are being installed at all SFRs.

GROUND WATER SOURCE

Well Number (Florida Unique Well ID #)	2 (AAH7492)	4	
Year Drilled	1964	2012	
Depth Drilled	334'	450'	
Drilling Method	Unknown	Rotary	
Type of Grout	Unknown	Unknown	
Static Water Level	Unknown	Unknown	
Pumping Water Level	Unknown	Unknown	
Design Well Yield	Unknown	Unknown	
Test Yield	Unknown	Unknown	
Actual Yield (if different than rated capacity)	Unknown	Unknown	
Strainer	Unknown	Unknown	
Length (outside casing)	191'	Unknown	
Diameter (outside casing)	12"	Unknown	
Material (outside casing)	Black steel	Black steel	
Well Contamination History	None noted	None noted	
Is inundation of well possible?	Unknown	No	
6' X 6' X 4" Concrete Pad	Yes	Yes	
SET BACKS	Septic Tank	N/A	N/A
	Reuse Water	N/A	N/A
	WW Plumbing	>200'	N/A
	Other Sanitary Hazard	None observed	None observed
PUMP	Type	Vertical turbine	Vertical turbine
	Manufacturer Name	Jacuzzi	Deming
	Model Number	12MSB4	3-12Y-1100
	Rated Capacity (gpm)	1,200	1000
	Motor Horsepower	75	60
Well casing 12" above grade?	Yes	Yes	
Well Casing Sanitary Seal	Ok	Ok	
Raw Water Sampling Tap	Yes	Yes	
Above Ground Check Valve	Yes	Yes	
Security	Yes	Yes	
Well Vent Protection	Yes	Yes	

COMMENTS Well #4 check valve was recently repacked.

CHLORINATION (Disinfection)

Type: Gas Hypo
 Make Hydro Capacity 250 ppd
 Chlorine Feed Rate 150 ppd
 Avg. Amount of Cl₂ gas used 30-35 ppd
 Chlorine Residuals: Plant 2.72 Remote 2.13
 Remote tap location Across from High School
 DPD Test Kit: On-site With operator
 None Not Used Daily
 Injection Points Prior to elevated storage tank
 Booster Pump Info N/A
 Comments _____

Chlorine Gas Use Requirements	YES	NO	Comments
Dual System	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Auto-switchover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Alarms:			
Loss of Cl ₂ capability	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Loss of Cl ₂ residual	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Cl ₂ leak detection	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Scale	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Chained Cylinders	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Reserve Supply	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Adequate Air-Pak	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Call Fire Dept.
Sign of Leaks	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Fresh Ammonia	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Ventilation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Room Lighting	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Warning Signs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Repair Kits	<input type="checkbox"/>	<input checked="" type="checkbox"/>	N/A
Fitted Wrench	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Housing/Protection	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

AERATION (Gases, Fe, & Mn Removal)

Type Cascade Capacity Unknown
 Aerator Condition Good
 Visible Algae Growth None observed
 Protective Screen Condition Good
 Frequency of Cleaning Quarterly
 Date Last Inspected/Cleaned 3/2022
 Comments Observations were made at ground level.

STORAGE FACILITIES

(G) Ground (C) Clearwell (E) Elevated
 (B) Bladder (H) Hydropneumatic / flow-through

Tank Type/Number	G
Capacity (gal)	500,000
Material	Concrete
Gravity Drain	Yes
By-Pass Piping	Yes
Protected Openings	N/A
Sight Glass or Level Indicator	Yes
PRV/ARV	N/A
Pressure Gauge	N/A
On/Off Pressure	10.6'/14.3'
Access Secured	Yes
Access Manhole	Yes
Tank Sample Tap Location	On manhole
Date of Inspection	2022/03
Date of Cleaning	2022/03

Comments _____

HIGH SERVICE PUMPS

Pump Number	1	2	3	4
Type	Horizontal Split Case			
Make	Aurora			
Model	Unknown	411A	411A	Unknown
Capacity (gpm)	900	1950	1950	900
Motor HP	60	125	125	60
Date Installed	2021	2013	2013	2018

Comments Discharge pressure setpoint is 73 psi. Normally, it is 65 psi.

State of Florida
Department of Environmental Protection
Central District

SANITARY SURVEY REPORT

Plant Name HOWEY IN THE HILLS WTP2 County _____ Lake _____ PWS ID # 3350573
Plant Location 316 West Grant Street, Howey-in-the Hills, FL 34737 Phone 352-324-2526
Owner Name Town of Howey-in-the-Hills Phone 352-516-1346
Owner Address P.O. Box 128, Howey-in-the-Hills, FL 34737
Contact Person Morgan Cates Title Public Works Director Phone 352-805-0205
This Survey Date 4/19/22 Last Survey Date 4/16/19 Last Compliance Inspection Date 9/22/98

PWS TYPE: Community

PLANT CATEGORY & CLASS: 5C

MAX-DAY DESIGN CAPACITY: 720,000 gpd

PWS STATUS: Approved

RAW WATER SOURCE

GROUND; Number of Wells 1
 PURCHASED from PWS ID # _____
 Emergency Water Source WTP1
Emergency Water Capacity 1,800,000

STANDBY POWER SOURCE: Yes

Source Onan Diesel Generator
Capacity of Standby (kW) 150
Switchover: Automatic Manual
Hrs Operated Under Load 2 hrs/mo.

What equipment does it operate?

Well Pumps All
 High Service Pumps _____
 Treatment Equipment All

Satisfy avg. daily demand? Yes No Unknown

Audio-visual alarm? Yes No

Comments System Offline

TREATMENT PROCESSES IN USE

Gas chlorination

SERVICE AREA CHARACTERISTICS

Municipal/city

Food Service: Yes No N/A

Number of Service Connections 811

Population Served 2,027 Basis MOR

OPERATION & MAINTENANCE LOG: Yes

Location Water treatment plant

Comments System is offline

CERTIFIED OPERATOR: Yes

Operator(s) & Certification Class-Number:

Mark McKinnon B-17855

Hrs/day: Required *Visit Actual *Visit

Days/wk: Required 5+1 Actual 5+1

Non-consecutive Days? Yes No N/A

Comments *Visits must total 0.6 hr/week.

MONTHLY OPERATION REPORTS (MORs)

MORs submitted regularly? Yes No N/A

Data missing from MORs? No Yes N/A

Average Day (from MORs) 126,199 gpd

Maximum Day (from MORs) 419,000 gpd 05/21

Comments System offline.

Flow Measuring Device Flow Meter

Meter Size & Type 8" Water Specialties

Date Last Calibrated System offline

PLANS AND MAPS

Coliform Sampling Plan Yes No N/A

D/DBP Monitoring Plan Yes No N/A

Lead and Copper Plan Yes No N/A

Distribution System Map Yes No N/A

Emergency Response Plan Yes No N/A

Comments System Offline

PREVENTIVE MAINTENANCE/O&M

Operation & Maintenance Manual Yes No

Preventive Maintenance Program Yes No N/A

Flushing Program Yes No N/A

Records Yes No N/A

Isolation Valve Exercise Yes No N/A

Records Yes No N/A

Comments _____

System Offline

CROSS CONNECTION CONTROL

BFPAs 72 # Tested 15 (2022)

WWTP RPZ N/A Date Tested N/A

Written Plan Yes Date 7/18/16

Comments System Offline

GROUND WATER SOURCE

Well Number (Florida Unique Well ID #)	3 (AAE0875)			
Year Drilled	1990			
Depth Drilled	350'			
Drilling Method	Cable tool			
Type of Grout	Unknown			
Static Water Level	62'			
Pumping Water Level	Unknown			
Design Well Yield	Unknown			
Test Yield	Unknown			
Actual Yield (if different than rated capacity)	Unknown			
Strainer	Unknown			
Length (outside casing)	162'			
Diameter (outside casing)	14"			
Material (outside casing)	Black steel			
Well Contamination History	None noted			
Is inundation of well possible?	No			
6' X 6' X 4" Concrete Pad	Yes			
SET BACKS	Septic Tank	N/A		
	Reuse Water	N/A		
	WW Plumbing	>200'		
	Other Sanitary Hazard	None observed		
PUMP	Type	Vertical turbine		
	Manufacturer Name	Peerless		
	Model Number	NB-4		
	Rated Capacity (gpm)	1,000		
	Motor Horsepower	75		
Well casing 12" above grade?	Yes			
Well Casing Sanitary Seal	Ok			
Raw Water Sampling Tap	Yes			
Above Ground Check Valve	Yes			
Security	Yes			
Well Vent Protection	Yes			

COMMENTS System offline, motor down.

CHLORINATION (Disinfection)

Type: Gas Hypo
 Make Hydro Capacity 50 ppd
 Chlorine Feed Rate N/A
 Avg. Amount of Cl₂ gas used N/A ppd
 Chlorine Residuals: Plant N/A Remote N/A
 Remote tap location Across from High School
 DPD Test Kit: On-site With operator
 None Not Used Daily
 Injection Points Prior to hydro tank
 Booster Pump Info N/A
 Comments System Offline

Chlorine Gas Use Requirements	YES	NO	Comments
Dual System	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Auto-switchover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Alarms:			
Loss of Cl ₂ capability	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Loss of Cl ₂ residual	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Cl ₂ leak detection	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Scale	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Chained Cylinders	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Reserve Supply	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Adequate Air-pak	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Call Fire Dept.
Sign of Leaks	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Fresh Ammonia	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Ventilation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Room Lighting	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Warning Signs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Repair Kits	<input type="checkbox"/>	<input checked="" type="checkbox"/>	N/A
Fitted Wrench	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Housing/Protection	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

AERATION (Gases, Fe, & Mn Removal)

Type _____ Capacity _____
 Aerator Condition _____
 Visible Algae Growth _____
 Protective Screen Condition _____
 Frequency of Cleaning _____
 Date Last Inspected/Cleaned _____
 Comments _____

STORAGE FACILITIES

(G) Ground (C) Clearwell (E) Elevated
 (B) Bladder (H) Hydropneumatic / flow-through

Tank Type/Number	H
Capacity (gal)	15,000
Material	Steel
Gravity Drain	Yes
By-Pass Piping	Yes
Protected Openings	Yes
Sight Glass or Level Indicator	Yes
PRV/ARV	PRV
Pressure Gauge	Yes
On/Off Pressure	42/52
Access Secured	Yes
Access Manhole	Yes
Tank Sample Tap Location	On tank
Date of Inspection	2019/05
Date of Cleaning	2019/05

Comments _____

HIGH SERVICE PUMPS

Pump Number		
Type		
Make		
Model		
Capacity (gpm)		
Motor HP		
Date Installed		

Comments _____

DEFICIENCIES:

No deficiencies were noted during the inspection.

MONITORING REMINDER:

- Nitrate and nitrite samples are required to be collected from the point of entry (POE) to the distribution system annually. The 2022 results have been received.
- The consumer confidence report (CCR) must be delivered to consumers and the Department no later than July 1, 2022, and certification of delivery of the CCR must be submitted to the Department no later than August 10, 2022.
- Monitoring schedules are available on the Central District's FTP site: <https://floridadep.gov/central/cd-compliance-assurance/content/resources-drinking-water-facilities-and-operators-central>

COMMENTS:

- **Contact FRWA (Florida Rural Water Association) at 850-668-2746, or frwa@frwa.net, for free technical assistance with your system. FRWA has extended benefits offered to members.**
- Provide documentation that the finished-drinking-water meter has been calibrated at least every 5 years.
Checking the calibration of finished-drinking-water meters at treatment plants shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water. [Rule 62-555.350(2), F.A.C.]
- Suppliers of water shall submit written notification to the Department before beginning work or alterations to the public water system. Each notification shall be submitted to the appropriate Department of Environmental Protection District Office or Approved County Health Department and shall include the following: a description of the scope, purpose, and location of the work or alterations; and assurance that the work or alterations will comply with applicable requirements listed in Rule 62-555.330, F.A.C. Suppliers of water may begin such work or alterations 14 days after providing notification to the Department unless they are advised by the Department that the notification is incomplete or that a construction permit is required.
- Suppliers of water shall telephone the SWO at 1-800-320-0519 immediately (i.e., within two hours) after discovery of any actual or suspected sabotage or security breach, or any suspicious incident, involving a public water system. [Rule 62-555.350(10)(a), F.A.C.]
- Suppliers of water shall telephone, and speak directly to a person at, the appropriate DEP District Office as soon as possible, but never later than noon of the next business day, in the event of any of the following emergency or abnormal operating conditions:
 - The occurrence of any abnormal color, odor, or taste in a public water system's raw or finished water;
 - The failure of a public water system to comply with applicable disinfection requirements; or
 - The breakdown of any water treatment or pumping facilities, or the break of any water main, in a public water system if the breakdown or break is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(b), F.A.C.]

PWS ID # 3350573
Date 4/19/22

COMMENTS(continued):

- Suppliers of water shall notify affected water customers in writing or via telephone, newspaper, radio, or television; and telephone, and speak directly to a person at, the appropriate DEP District Office by no later than the previous business day before taking PWS components out of operation for planned maintenance or repair work if the work is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(d), F.A.C.]
- Suppliers of water shall issue precautionary "boil water" notices as required or recommended in the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(11), F.A.C.]

Manuel Cardona

Inspector Signature

Manuel F. Cardona

Printed Name

Environmental Consultant

Title

6/10/22

Date

David Smicherko

Reviewer Signature

David Smicherko

Printed Name

Environmental Manager

Title

6/14/2022

Date

APPENDIX F

Water Treatment System Calculations

FDEP Design Capacity Review

PWS ID NO.: 3350573

PLANT: Howey WTP No. 3

1. Total Well Capacity:

$$\boxed{3,000} \text{ GPM} \div 0.55 \text{ GPM/ERU} = \underline{5,455} \text{ ERU's}$$

2. Total Aerator Capacity:

$$\boxed{3,000} \text{ GPM} \div 0.55 \text{ GPM/ERU} = \underline{5,455} \text{ ERU's}$$

3. Total Ground Storage Capacity:

$$\boxed{600,000} \text{ Gallons} \div 240 \text{ minutes} = \underline{2,500} \text{ GPM} \div 0.366 \text{ GPM/ERU} = \underline{6,831} \text{ ERU's}$$

4. Total High Service Capacity:

$$\boxed{3,600} \text{ GPM} \div 1.10 \text{ GPM/ERU} = \underline{3,273} \text{ ERU's}$$

5. Auxiliary Power Throughput:

$$\boxed{3,000} \text{ GPM} \div 0.275 \text{ GPM/ERU} = \underline{10,909} \text{ ERU's}$$

6. Raw Throughput:

$$\underline{3,000} \text{ GPM} \times 240 \text{ minutes} + \text{Storage } \underline{600,000} \text{ gallons} = \underline{1,320,000} \text{ gallons} \div (1.10 \text{ GPM/ERU} \times 240 \text{ minutes}) = \underline{5,000} \text{ ERU's}$$

7. Design ERU Capacity =

$$\underline{3,273} \text{ ERU} \times 350 \text{ Gllons/day} \times 2.25 = \underline{2,577,273} \text{ GPD}$$

8. Maximum Day Design Capacity = 2.58 MGD

WELL HYDRAULIC CALCULATIONS

"Howey WTP No.3 - Well No. 5"

<p>I. Well Construction</p> <p>Well Use Type Description: <input type="text" value="Irrigation"/></p> <p>Outer Casing Diameter: <input type="text" value="16"/> inches</p> <p>Outer Casing Depth: <input type="text" value="0"/> feet</p> <p>Inner Casing Diameter: <input type="text" value="12"/> inches</p> <p>Inner Casing Depth: <input type="text" value="750"/> feet</p> <p>Total Well Depth: <input type="text" value="1,061"/> feet</p> <p>Design Pumping Demand: <input type="text" value="1,500"/> gpm</p>	<p>II. Static Water Level</p> <p>Natural Grade Elevation: <input type="text" value="140.00"/> feet</p> <p>Top of Casing Elevation: <input type="text" value="141.50"/> feet</p> <p>Drawdown Measuring Point Elevation: <input type="text" value="141.50"/> feet</p> <p>Static Measuring Point: <input type="text" value="Measuring Point"/></p> <p>Static Water Level: <input type="text" value="74.81"/> feet</p> <p>Static Water Level Elevation: 66.69 feet</p>
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<p>IV. Storage</p> <p>Type: <input type="text" value="Cascade Tray Aerator"/></p> <p>Influent Discharge Elevation: <input type="text" value="180.00"/> feet</p> <p style="margin-left: 200px;"><input type="text" value="0.0"/></p> <p>DHWL Elevation: 180.00 feet</p>	<p>III. Step-Drawdown Results</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Step</th> <th>Average Rate (gpm)</th> <th>Pump Level (ft)</th> <th>Drawdown (ft below Static)</th> <th>Capacity (gpm/ft)</th> </tr> </thead> <tbody> <tr><td>1</td><td><input type="text" value="0"/></td><td><input type="text" value="74.81"/></td><td><input type="text" value="0.00"/></td><td><input type="text" value="0.00"/></td></tr> <tr><td>2</td><td><input type="text" value="516"/></td><td><input type="text" value="75.30"/></td><td><input type="text" value="0.49"/></td><td><input type="text" value="6.85"/></td></tr> <tr><td>3</td><td><input type="text" value="1,002"/></td><td><input type="text" value="76.35"/></td><td><input type="text" value="1.54"/></td><td><input type="text" value="13.12"/></td></tr> <tr><td>4</td><td><input type="text" value="1,489"/></td><td><input type="text" value="78.10"/></td><td><input type="text" value="3.29"/></td><td><input type="text" value="19.07"/></td></tr> <tr><td>5</td><td><input type="text" value="1,500"/></td><td><input type="text" value="78.16"/></td><td><input type="text" value="3.35"/></td><td><input type="text" value="19.19"/></td></tr> <tr><td>6</td><td><input type="text" value="2,068"/></td><td><input type="text" value="81.03"/></td><td><input type="text" value="6.22"/></td><td><input type="text" value="25.52"/></td></tr> <tr><td>7</td><td><input type="text"/></td><td><input type="text"/></td><td><input type="text" value="-74.81"/></td><td><input type="text" value="0.00"/></td></tr> <tr><td>8</td><td><input type="text"/></td><td><input type="text"/></td><td><input type="text" value="-74.81"/></td><td><input type="text" value="0.00"/></td></tr> <tr><td>9</td><td><input type="text"/></td><td><input type="text"/></td><td><input type="text" value="-74.81"/></td><td><input type="text" value="0.00"/></td></tr> <tr><td>10</td><td><input type="text"/></td><td><input type="text"/></td><td><input type="text" value="-74.81"/></td><td><input type="text" value="0.00"/></td></tr> <tr><td>11</td><td><input type="text"/></td><td><input type="text"/></td><td><input type="text" value="-74.81"/></td><td><input type="text" value="0.00"/></td></tr> <tr><td>12</td><td><input type="text"/></td><td><input type="text"/></td><td><input type="text" value="-74.81"/></td><td><input type="text" value="0.00"/></td></tr> <tr><td>13</td><td><input type="text"/></td><td><input type="text"/></td><td><input type="text" value="-74.81"/></td><td><input type="text" value="0.00"/></td></tr> </tbody> </table>	Step	Average Rate (gpm)	Pump Level (ft)	Drawdown (ft below Static)	Capacity (gpm/ft)	1	<input type="text" value="0"/>	<input type="text" value="74.81"/>	<input type="text" value="0.00"/>	<input type="text" value="0.00"/>	2	<input type="text" value="516"/>	<input type="text" value="75.30"/>	<input type="text" value="0.49"/>	<input type="text" value="6.85"/>	3	<input type="text" value="1,002"/>	<input type="text" value="76.35"/>	<input type="text" value="1.54"/>	<input type="text" value="13.12"/>	4	<input type="text" value="1,489"/>	<input type="text" value="78.10"/>	<input type="text" value="3.29"/>	<input type="text" value="19.07"/>	5	<input type="text" value="1,500"/>	<input type="text" value="78.16"/>	<input type="text" value="3.35"/>	<input type="text" value="19.19"/>	6	<input type="text" value="2,068"/>	<input type="text" value="81.03"/>	<input type="text" value="6.22"/>	<input type="text" value="25.52"/>	7	<input type="text"/>	<input type="text"/>	<input type="text" value="-74.81"/>	<input type="text" value="0.00"/>	8	<input type="text"/>	<input type="text"/>	<input type="text" value="-74.81"/>	<input type="text" value="0.00"/>	9	<input type="text"/>	<input type="text"/>	<input type="text" value="-74.81"/>	<input type="text" value="0.00"/>	10	<input type="text"/>	<input type="text"/>	<input type="text" value="-74.81"/>	<input type="text" value="0.00"/>	11	<input type="text"/>	<input type="text"/>	<input type="text" value="-74.81"/>	<input type="text" value="0.00"/>	12	<input type="text"/>	<input type="text"/>	<input type="text" value="-74.81"/>	<input type="text" value="0.00"/>	13	<input type="text"/>	<input type="text"/>	<input type="text" value="-74.81"/>	<input type="text" value="0.00"/>
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<p>V. Well Dynamics</p> <p>Design Pumping Demand: 1,500 gpm</p> <p>Drawdown below static: 3.35 feet</p> <p>Static Head Loss: 116.66 feet</p>																																																																							
<p>VI. Backflow Prevention</p> <p>Backflow Device Installed: <input type="text" value="Yes"/></p> <p>Backflow Device Type: <input type="text" value="Double Check"/></p> <p>Headloss: <input type="text" value="3.0"/> psi</p>																																																																							

VII. Distribution System Pressure

Pressurized Distribution System:

Connection Pressure: psi

VII. Design Pressure Main Piping:

Note: Information from Friction Losses Table

Diameter (inches)	Area (Section) (sf)	Material	Roughness Coefficient	Length (ft)	Design Flow (gpm)	Velocity (fps)	Capacity (gallons/ft)
10	0.611	DIP	100	55	1,500	5.5	4.57
12	0.871	DIP	100	170	1,500	3.8	6.52
N/A				0	0	0.0	0.00
N/A				0	0	0.0	0.00
N/A				0	0	0.0	0.00

Pressure Head (ft)	Pipe Friction Head (ft)	Fittings Friction Head (ft)	Static Head (ft)	Total Head Loss* (ft)	Pressure Rating (psi)
0.00	8.97	1.12	116.66	126.76	<input type="text" value="150"/>

Friction Head:
 $h_f = [(10.44 \times L \times Q^{1.85}) \div (C^{1.85} \times d^{4.8655})]$
 1 psi = 2.307 feet

Pressure Rating Exceeds Hydraulic Head Pressure - Pipe Diameter IS Suitable

Pump Manufacturers' Websites

Fairbanks Nijhuis:
 Vertical Turbine Pump Selection Software: <https://www.pentair.com/en-us/brands/fairbanks-nijhuis.html>

Flowserve:
 Vertical Turbine Pump Selection Software: <http://flowserve.bigmachines.com>

WELL HYDRAULIC CALCULATIONS

"Howey WTP No.3 - Well No. 6"

<p>I. Well Construction</p> <p>Well Use Type Description: <input type="text" value="Irrigation"/></p> <p>Outer Casing Diameter: <input type="text" value="16"/> inches</p> <p>Outer Casing Depth: <input type="text" value="0"/> feet</p> <p>Inner Casing Diameter: <input type="text" value="12"/> inches</p> <p>Inner Casing Depth: <input type="text" value="755"/> feet</p> <p>Total Well Depth: <input type="text" value="1,087"/> feet</p> <p>Design Pumping Demand: <input type="text" value="1,500"/> gpm</p>	<p>II. Static Water Level</p> <p>Natural Grade Elevation: <input type="text" value="140.00"/> feet</p> <p>Top of Casing Elevation: <input type="text" value="141.50"/> feet</p> <p>Drawdown Measuring Point Elevation: <input type="text" value="141.50"/> feet</p> <p>Static Measuring Point: <input type="text" value="Measuring Point"/></p> <p>Static Water Level: <input type="text" value="76.80"/> feet</p> <p>Static Water Level Elevation: 64.70 feet</p>
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IV. Storage

Type:

Influent Discharge Elevation: feet

DHWL Elevation: 180.00 feet

V. Well Dynamics

Design Pumping Demand: 1,500 gpm

Drawdown below static: 4.73 feet

Static Head Loss: 120.03 feet

VI. Backflow Prevention

Backflow Device Installed:

Backflow Device Type:

Headloss: psi

III. Step-Drawdown Results

Step	Average Rate (gpm)	Pump Level (ft)	Drawdown (ft below Static)	Capacity (gpm/ft)
1	<input type="text" value="0"/>	<input type="text" value="76.80"/>	<input type="text" value="0.00"/>	<input type="text" value="0.00"/>
2	<input type="text" value="501"/>	<input type="text" value="77.55"/>	<input type="text" value="0.75"/>	<input type="text" value="6.46"/>
3	<input type="text" value="1,002"/>	<input type="text" value="78.93"/>	<input type="text" value="2.13"/>	<input type="text" value="12.69"/>
4	<input type="text" value="1,500"/>	<input type="text" value="81.53"/>	<input type="text" value="4.73"/>	<input type="text" value="18.40"/>
5	<input type="text" value="1,504"/>	<input type="text" value="81.55"/>	<input type="text" value="4.75"/>	<input type="text" value="18.44"/>
6	<input type="text" value="2,230"/>	<input type="text" value="86.59"/>	<input type="text" value="9.79"/>	<input type="text" value="25.75"/>
7	<input type="text"/>	<input type="text"/>	<input type="text" value="-76.80"/>	<input type="text" value="0.00"/>
8	<input type="text"/>	<input type="text"/>	<input type="text" value="-76.80"/>	<input type="text" value="0.00"/>
9	<input type="text"/>	<input type="text"/>	<input type="text" value="-76.80"/>	<input type="text" value="0.00"/>
10	<input type="text"/>	<input type="text"/>	<input type="text" value="-76.80"/>	<input type="text" value="0.00"/>
11	<input type="text"/>	<input type="text"/>	<input type="text" value="-76.80"/>	<input type="text" value="0.00"/>
12	<input type="text"/>	<input type="text"/>	<input type="text" value="-76.80"/>	<input type="text" value="0.00"/>
13	<input type="text"/>	<input type="text"/>	<input type="text" value="-76.80"/>	<input type="text" value="0.00"/>

VII. Distribution System Pressure

Pressurized Distribution System:

Connection Pressure: psi

VII. Design Pressure Main Piping:

Note: Information from Friction Losses Table

Diameter (inches)	Area (Section) (sf)	Material	Roughness Coefficient	Length (ft)	Design Flow (gpm)	Velocity (fps)	Capacity (gallons/ft)
10	0.611	DIP	100	55	1,500	5.5	4.57
12	0.871	DIP	100	170	1,500	3.8	6.52
N/A				0	0	0.0	0.00
N/A				0	0	0.0	0.00
N/A				0	0	0.0	0.00

Pressure Head (ft)	Pipe Friction Head (ft)	Fittings Friction Head (ft)	Static Head (ft)	Total Head Loss* (ft)	Pressure Rating (psi)
0.00	8.97	1.12	120.03	130.13	<input type="text" value="56.4"/>

Friction Head:
 $h_f = [(10.44 \times L \times Q^{1.85}) \div (C^{1.85} \times d^{4.8655})]$
 1 psi = 2.307 feet

Pressure Rating Exceeds Hydraulic Head Pressure - Pipe Diameter IS Suitable

Pump Manufacturers' Websites

Fairbanks Nijhuis:
 Vertical Turbine Pump Selection Software: <https://www.pentair.com/en-us/brands/fairbanks-nijhuis.html>

Flowserve:
 Vertical Turbine Pump Selection Software: <http://flowserve.bigmachines.com>

WATER TREATMENT PLANT CALCULATIONS

Howey WTP No. 3

I. Design Demand Rates (Total System):

A. Residential

Parcel ID	Type Description	Unit Description	Units	Unit Flow (GPD/Unit)	Average Daily Flow (GPD)	Average Daily Flow (GPM)	Minimum Daily Flow (GPM)	Maximum Daily Flow (GPM)	Peak Daily Flow (GPM)
1	Residential - Existing ERU - 408	ERU	1,226	408	500,208	347	174	695	1,389
2	Residential - Proposed ERU - 150	ERU	4,353	150	652,950	453	227	907	1,814
3	N/A	---		---	0	0	0	0	0
4	N/A	---		---	0	0	0	0	0
5	N/A	---		---	0	0	0	0	0
Total Residential					1,153,158	801	400	1,602	3,203

Residential Design Peaking Factors:	F_{min} 0.50	F_{max} 2.00	F_{peak} 4.00
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B. Non-Residential

Parcel ID	Non-Residential Land Use Description	Unit Description	Units	Unit Flow (GPD/Unit)	Average Daily Flow (GPD)	Average Daily Flow (GPM)	Minimum Daily Flow (GPM)	Maximum Daily Flow (GPM)	Peak Daily Flow (GPM)
1	Commercial - Existing	ERU	97	408	39,576	27	14	55	110
2	Irrigation - Existing	ERU	453	408	184,824	128	64	257	513
3	Municipal - Existing Builder Construction	ERU	0	250	0	0	0	0	0
4	Municipal - Unaccounted	varies	1	input flow	176,000	122	61	244	489
5	Commercial - Proposed	square feet	535,000	0.15	80,250	56	28	111	223
6	Institutional - Proposed	square feet	381,000	0.25	95,250	66	33	132	265
Total Non-Residential					575,900	400	200	800	1,600

Non-Residential Design Peaking Factors:	F_{min} 0.50	F_{max} 2.00	F_{peak} 4.00
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Equivalent Residential Unit, ERU: 250 gpd/du

Total Project ERU's = 6,916

	Daily Flow (GPD)	Daily Flow (GPM)	Daily Flow (GPM)	Daily Flow (GPM)	Daily Flow (GPM)
Total Design	1,729,058	1,201	600	2,401	4,803

WATER TREATMENT PLANT CALCULATIONS

Howey WTP No. 3

II. Water Supply:

Criteria: Water Supply source capacity shall provide ADD with the largest source out of service.

System Average Daily Demand: gpm

Water Supply Capacity:

Water Treatment Plant No. 1

Water Source:

Well Pump No. ~ gpm

Well Pump No. ~ gpm

Well Pump No. ~ gpm

Water Treatment Plant No. 2

Water Source:

Well Pump No. ~ gpm

Well Pump No. ~ gpm

Well Pump No. ~ gpm

Water Treatment Plant No. 3

Water Source:

Well Pump No. ~ gpm

Well Pump No. ~ gpm

Well Pump No. ~ gpm

Total Water Supply Capacity: gpm

Minimum Capacity Provided: gpm

ADD Capacity Required: gpm

NOTE:

WATER TREATMENT PLANT CALCULATIONS

Howey WTP No. 3

III. Disinfection:

Treatment Facility:

Water Supply Capacity: gpm

Method:

Minimum Dosage: mg/L

Demand per lb Required: lb/day

Cylinder Size: lbs

Storage Capacity: days

No. of Cylinders:

$$\text{Dosage (mg/L)} = \frac{\text{lbs of active chemical per day}}{Q_{(MGD)} \times 8.345 \frac{\text{lbs L}}{MG \text{ mg}}}$$

Method:

Storage Type:

Minimum Dosage: mg/L

Demand per lb Required: lb/day

NaOCl Specific Gravity:

NaOCl Weight: lbs/gal

Percent Concentration:

NaOCl Active Weight: lbs/gal

Required Pump Feed Rate: mL/minute

Required Pump Feed Rate: gal/hour

Storage Capacity: days

Required Storage: gallon storage tank

3,785 mL = 1 gallon

1 gallon = 8.34 lbs

WATER TREATMENT PLANT CALCULATIONS

Howey WTP No. 3

VI. Water Storage Requirements:

Design Flow Rates:

System Average Daily Demand: gpm

System Maximum Daily Demand: gpm

System Peak Hour Demand: gpm

Water Storage Criteria:

Condition 1. The water system's total useful finished water storage capacity (excluding fire protection demand) shall be sufficient to provide 25% of the water system's MMD. **If total finished storage capacity is less than 25%, refer to Condition 2 and/or Condition 3**

Storage Required: $MDD \text{ gpm} \times 0.25 \times 60 \text{ min/hour} \times 24 \text{ hours}$

Storage Required: gallons

Condition 2. In conjunction with the capacity of the water system's source, treatment and finished water pumping facilities, the water system's total useful finished water storage capacity shall be sufficient to meet the water system's PHD for at least four (4) consecutive hours.

Storage Required: $PHD \text{ gpm} \times 60 \text{ min/hour} \times 4 \text{ hours}$

Storage Required: gallons

Condition 3. In conjunction with the capacity of the water system's source, treatment and finished water pumping facilities, the water system's total useful finished water storage capacity shall be sufficient to meet the water system's MMD plus fire flow for at least four (4) consecutive hours.

Storage Required: $(MDD + \text{Fire}) \text{ gpm} \times 60 \text{ min/hour} \times 4 \text{ hours}$

Fire Flow Required: gpm

Storage Required: gallons

IV. Water Storage Facility:

Water Treatment Plant No. 1

~ gallons

~ gallons

Water Treatment Plant No. 2

~ gallons

~ gallons

Water Treatment Plant No. 3

~ gallons

~ gallons

Finished Storage Provided: gallons

Condition 1. Storage Required: gallons **Note: Use larger of Storage Criteria Conditions 2 and 3**

Water Supply Source: gallons (Q gpm x 240 min.)

Total Storage Provided: gallons

Condition 2. Storage Required: gallons

Condition 3. Storage Required: gallons

WATER TREATMENT PLANT CALCULATIONS

Howey WTP No. 3

V. Water Distribution: High Service Pumps

Design Flow Rates:

System Average Daily Demand: gpm

System Maximum Daily Demand: gpm

System Peak Hour Demand: gpm

High Service Pump Criteria:

Condition 1. The total capacity of all high-service pumping stations connected to a water system shall meet at least the water system's peak-hour water demand (PHD).

Capacity Required: gpm

Condition 2. The total capacity of all high-service pumping stations connected to a water system shall meet at least the water system's design fire-flow rate plus the maximum-day demand (MDD) if fire protection is provided.

Fire Flow Required: gpm

Max.-Day Demand: gpm

Capacity Required: gpm

Condition 3. At each high-service pumping station connected to the water system the supplier shall provide a standby pump (installed or uninstalled) of sufficient capacity to replace the largest capacity pump.

High Service Pump Capacity:

Water Treatment Plant No. 1

HSP Pump No.	<input type="text" value="1"/>	~	<input type="text" value="360"/>	gpm
HSP Pump No.	<input type="text" value="2"/>	~	<input type="text" value="2,800"/>	gpm
HSP Pump No.	<input type="text" value="3"/>	~	<input type="text" value="2,800"/>	gpm
HSP Pump No.	<input type="text" value="4"/>		<input type="text" value="1,000"/>	gpm

Water Treatment Plant No. 2

HSP Pump No.	<input type="text"/>	~	<input type="text" value="0"/>	gpm
HSP Pump No.	<input type="text"/>	~	<input type="text" value="0"/>	gpm
HSP Pump No.	<input type="text"/>	~	<input type="text" value="0"/>	gpm

Water Treatment Plant No. 3

HSP Pump No.	<input type="text" value="4"/>	~	<input type="text" value="600"/>	gpm
HSP Pump No.	<input type="text" value="5"/>	~	<input type="text" value="1,000"/>	gpm
HSP Pump No.	<input type="text" value="6"/>	~	<input type="text" value="1,000"/>	gpm
HSP Pump No.	<input type="text" value="7"/>	~	<input type="text" value="1,000"/>	gpm

Total HSP Capacity: gpm

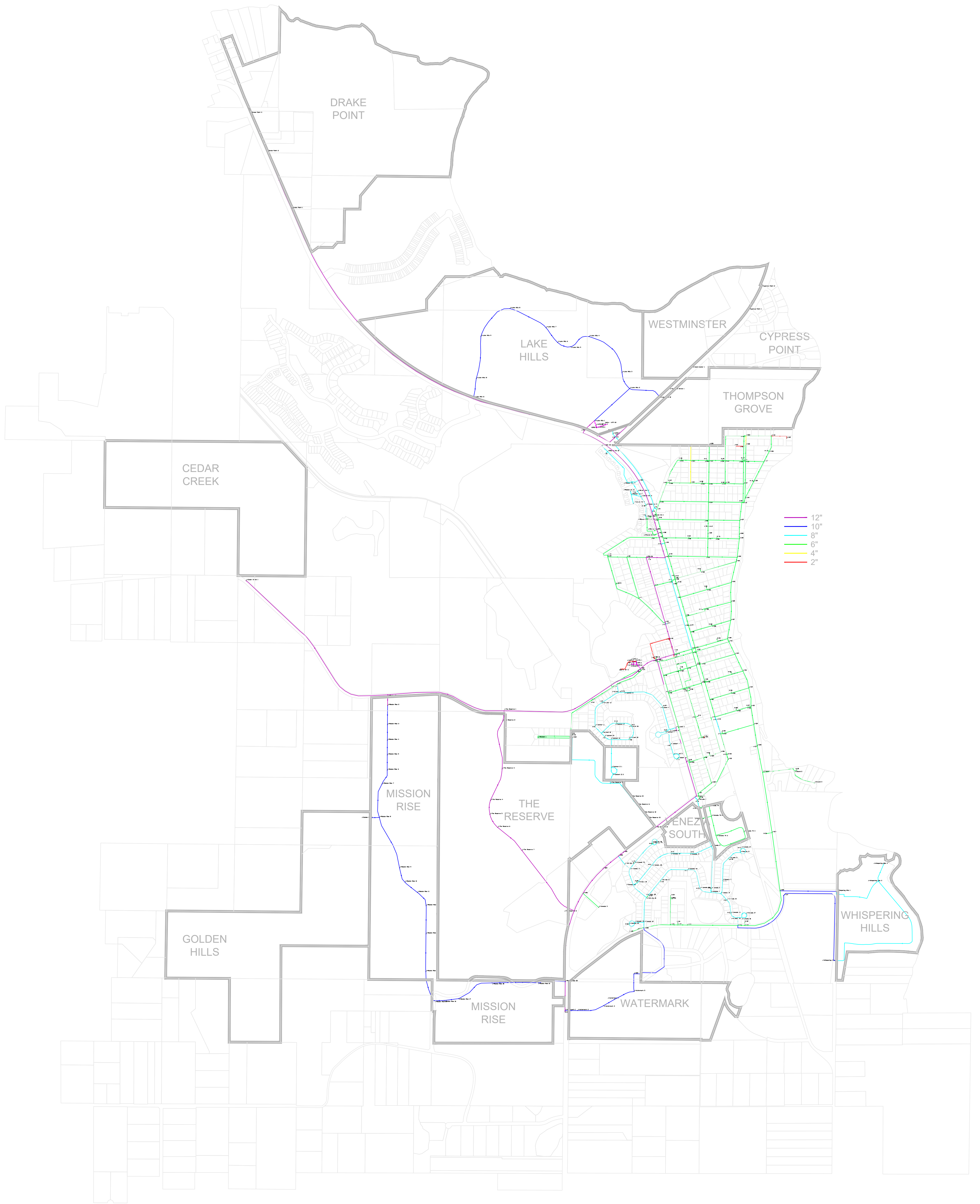
Minimum Capacity Provided: gpm

Minimum Capacity Required: gpm

NOTE:

APPENDIX G

WaterCAD Analyses



Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Ave Day - Existing Interconnect

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
1248	J-WTP3-1	140.00	0	0	141.99	1
668	J-WTP1-3	81.00	0	0	83.00	1
666	J-WTP1-2	81.00	0	0	83.00	1
664	J-WTP1-1	81.00	0	0	83.00	1
30	J-WTP2-1	130.00	0	0	208.00	34
869	J-Watermark 5	159.36	1	23,550	245.55	37
68	J-Mission Inn 6	154.00	1	6,528	245.56	40
568	J-Mission Inn 5	154.00	0	0	245.56	40
355	J-140	152.00	0	0	245.54	40
44	J-8	152.00	1	408	245.54	40
66	J-Mission Inn 10	152.00	0	0	245.56	40
41	J-6	152.00	0	0	245.57	40
46	J-9	151.00	0	0	245.57	41
74	J-Mission Inn 9	150.00	1	1,632	245.56	41
78	J-Mission Inn 4	150.00	0	0	245.57	41
82	J-Mission Inn 3	149.00	0	0	245.57	42
86	J-Mission Inn 2	149.00	1	6,120	245.57	42
70	J-Mission Inn 7	148.00	1	3,264	245.56	42
48	J-Mission Inn 1	148.00	0	0	245.57	42
764	J-Whispering Hills 2	146.07	0	0	245.54	43
374	J-141	146.00	0	0	245.53	43
72	J-Mission Inn 8	146.00	1	1,632	245.56	43
866	J-Watermark 4	145.57	1	3,600	245.55	43
351	J-94	144.00	0	0	245.54	44
539	J-142	141.00	0	0	245.53	45
1217	J-386	141.00	0	0	245.56	45
1122	J-354	140.00	0	0	245.60	46
1178	J-Lake Hills 1	140.00	0	0	245.62	46
1245	J-WTP3-2	140.00	0	0	245.63	46
863	J-Watermark 3	135.17	1	3,300	245.55	48
1162	J-365	135.00	0	0	245.55	48
50	J-Mission Inn 11	134.00	0	0	245.56	48
640	J-198	131.95	0	0	245.55	49
90	J-Mission Inn 14	131.00	0	0	245.57	50
94	J-Mission Inn 15	130.00	0	0	245.57	50
92	J-23	130.00	0	0	245.57	50
96	J-25	130.00	0	0	245.57	50
114	J-27	129.00	1	6,120	245.57	50
338	J-93	128.00	0	0	245.56	51
100	J-26	128.00	1	1,224	245.57	51
442	J-7	128.00	0	0	245.59	51
37	J-5	128.00	0	0	245.59	51
33	J-4	128.00	0	0	245.59	51
31	J-2	128.00	0	0	245.59	51
35	J-3	128.00	0	0	245.59	51

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Ave Day - Existing Interconnect

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
1108	J-Drake Point 3	126.24	1	26,400	245.51	52
52	J-Mission Inn 12	125.00	0	0	245.56	52
54	J-Mission Inn 13	124.00	1	14,688	245.56	53
544	J-170	123.00	0	0	245.53	53
502	J-98	122.00	0	0	245.55	53
490	J-102	122.00	0	0	245.57	53
512	J-96	121.00	0	0	245.54	54
104	J-92	121.00	0	0	245.56	54
102	J-38	121.00	0	0	245.57	54
1106	J-Drake Point 2	120.00	1	26,550	245.51	54
495	J-90	120.00	0	0	245.57	54
325	J-89	120.00	0	0	245.57	54
322	J-88	120.00	0	0	245.57	54
643	J-199	119.72	0	0	245.55	54
340	J-97	119.00	1	5,712	245.55	55
348	J-95	118.00	1	6,936	245.54	55
576	J-183	118.00	0	0	245.57	55
377	J-157	117.00	1	4,896	245.53	56
372	J-143	117.00	1	1,632	245.53	56
315	J-104	117.00	0	0	245.57	56
860	J-Watermark 2	116.57	1	3,300	245.55	56
108	J-39	116.00	0	0	245.58	56
110	J-40	116.00	1	4,488	245.58	56
319	J-87	115.00	0	0	245.57	56
332	J-99	113.00	1	4,080	245.55	57
334	J-91	113.00	1	1,632	245.56	57
106	J-37	112.00	1	2,040	245.57	58
357	J-139	107.00	1	6,120	245.54	60
306	J-106	106.00	0	0	245.58	60
983	J-Venezia 23	105.00	1	4,896	245.55	61
978	J-Venezia 18	105.00	1	4,080	245.56	61
447	J-36	105.00	0	0	245.57	61
612	J-190	104.74	0	0	245.59	61
897	J-Talichet 1	104.83	0	0	245.70	61
616	J-191	104.64	1	4,080	245.59	61
529	J-156	104.00	0	0	245.53	61
534	J-144	104.00	0	0	245.53	61
123	J-35	104.00	1	4,896	245.57	61
121	J-32	104.00	1	8,160	245.57	61
169	J-63	104.00	1	4,896	245.63	61
369	J-145	103.00	1	1,224	245.53	62
304	J-86	103.00	1	1,224	245.58	62
973	J-Venezia 19	102.41	1	4,488	245.56	62
786	J-248	102.22	0	0	245.62	62
382	J-158	102.00	1	4,896	245.53	62

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Ave Day - Existing Interconnect

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
507	J-136	102.00	0	0	245.55	62
215	J-77	102.00	0	0	245.59	62
165	J-60	102.00	1	4,488	245.62	62
167	J-61	102.00	0	0	245.62	62
1110	J-Lake Hills 12	101.23	0	0	245.57	62
772	J-240	100.95	0	0	245.55	63
1148	J-Watermark 1	100.95	0	0	245.55	63
566	J-62	101.00	0	0	245.62	63
211	J-56	100.22	0	0	245.62	63
809	J-Mission Rise 5	100.08	1	4,350	245.54	63
773	J-Venezia 1	100.12	0	0	245.61	63
1053	J-Venezia 2	100.09	0	0	245.60	63
379	J-155	100.00	1	3,264	245.53	63
156	J-54	100.06	1	816	245.62	63
635	J-197	100.00	0	0	245.59	63
201	J-52	100.00	0	0	245.64	63
203	J-51	100.00	1	816	245.64	63
895	J-Talichet 2	99.21	0	0	245.70	63
213	J-Venezia 3	99.00	0	0	245.59	63
812	J-Mission Rise 6	98.40	1	4,350	245.53	64
968	J-Venezia 20	97.78	1	4,488	245.56	64
815	J-Mission Rise 7	97.32	1	4,350	245.52	64
848	J-Mission Rise 18	97.08	1	4,200	245.53	64
702	J-Venezia 4	97.00	1	12,750	245.58	64
688	J-209	97.00	1	2,040	245.62	64
158	J-53	97.00	1	5,304	245.62	64
839	J-Mission Rise 15	96.89	1	4,200	245.52	64
192	J-50	96.50	1	408	245.66	65
842	J-Mission Rise 16	96.14	1	4,200	245.52	65
154	J-58	96.00	1	408	245.62	65
629	J-196	96.00	1	5,304	245.62	65
934	J-Talichet 6	95.60	1	1,224	245.70	65
1133	J-Venezia 24	95.33	1	6,528	245.55	65
524	J-154	95.00	0	0	245.53	65
235	J-131	95.00	0	0	245.55	65
930	J-Talichet 3	95.16	1	2,448	245.70	65
239	J-132	95.00	0	0	245.55	65
957	J-Venezia 25	95.00	1	4,080	245.55	65
465	J-78	95.00	0	0	245.59	65
1168	J-Venezia TH 1	95.00	0	0	245.59	65
607	J-189	95.00	0	0	245.62	65
932	J-Talichet 4	95.07	1	1,224	245.70	65
186	J-49	95.08	1	408	245.71	65
881	J-Talichet II 1	94.95	1	2,250	245.61	65
1043	J-324	95.01	0	0	245.78	65

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Ave Day - Existing Interconnect

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
1041	J-323	94.88	0	0	245.78	65
806	J-Mission Rise 4	94.43	1	4,350	245.55	65
818	J-Mission Rise 8	94.12	1	4,350	245.51	65
824	J-Mission Rise 10	94.09	1	2,550	245.51	66
827	J-Mission Rise 11	94.06	1	2,550	245.51	66
1166	J-Venezia TH 2	94.00	1	2,700	245.58	66
255	J-79	94.00	1	1,632	245.59	66
386	J-153	93.00	1	2,448	245.53	66
388	J-159	93.00	0	0	245.53	66
367	J-146	93.00	1	1,224	245.53	66
704	J-Venezia 5	93.00	0	0	245.56	66
581	J-184	93.00	0	0	245.58	66
251	J-123	93.00	0	0	245.59	66
194	J-66	93.00	1	1,224	245.64	66
963	J-Venezia 21	92.72	1	5,304	245.56	66
1100	J-Golden Hills 1	92.58	1	91,050	245.50	66
1112	J-Thompson Grove 1	92.46	1	40,800	245.57	66
1102	J-Lake Hills 11	92.23	0	0	245.56	66
1195	J-Lake Hills 10	92.00	1	10,650	245.56	66
116	J-28	92.00	0	0	245.57	66
119	J-29	92.00	1	4,896	245.57	66
879	J-Talichet II 2	92.00	1	900	245.61	66
776	J-Cedar Creek 1	91.69	1	25,650	245.57	67
404	J-162	91.00	0	0	245.53	67
1203	J-Venezia TH 3	91.00	1	3,450	245.58	67
475	J-120	91.00	0	0	245.59	67
133	J-33	91.00	0	0	245.61	67
152	J-76	91.00	1	3,264	245.63	67
730	J-Venezia 30	90.81	0	0	245.56	67
883	J-Talichet 14	90.88	1	1,224	245.64	67
1138	J-Venezia 32	90.74	1	1,632	245.56	67
556	J-174	91.00	0	0	245.86	67
936	J-Talichet 5	90.78	1	2,040	245.70	67
1142	J-Mission Rise 1	90.47	0	0	245.57	67
845	J-Mission Rise 17	90.35	1	4,200	245.52	67
1035	J-Venezia 34	90.25	1	816	245.56	67
724	J-220	90.23	0	0	245.55	67
836	J-Mission Rise 14	90.07	1	2,550	245.52	67
400	J-160	90.00	1	6,528	245.53	67
245	J-134	90.00	1	4,080	245.54	67
241	J-133	90.00	0	0	245.54	67
720	J-Venezia 26	90.00	1	2,040	245.55	67
1059	J-Talichet 13	90.07	1	408	245.64	67
480	J-118	90.00	0	0	245.59	67
268	J-81	90.00	1	1,632	245.59	67

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Ave Day - Existing Interconnect

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
1152	J-Mission Rise 22	89.96	0	0	245.55	67
800	J-Mission Rise 2	89.97	1	4,200	245.57	67
597	J-187	90.00	0	0	245.64	67
179	J-67	90.00	0	0	245.65	67
803	J-Mission Rise 3	89.89	1	4,200	245.55	67
876	J-The Reserve 14	89.84	0	0	245.58	67
432	J-44	90.00	0	0	245.78	67
436	J-45	90.00	0	0	245.78	67
585	J-185	90.00	0	0	245.87	67
1084	J-The Reserve 13	89.69	2	49,500	245.58	67
1081	J-The Reserve 12	89.60	1	900	245.58	67
893	J-Talichet 7	89.60	1	4,896	245.71	68
1078	J-The Reserve 11	89.47	1	900	245.58	68
830	J-Mission Rise 12	89.37	1	2,550	245.51	68
1075	J-The Reserve 10	89.34	2	52,150	245.58	68
732	J-Venezia 31	89.16	1	2,448	245.56	68
452	J-41	89.00	1	2,040	245.61	68
173	J-64	89.00	0	0	245.64	68
198	J-65	89.00	1	2,040	245.64	68
762	J-234	88.95	0	0	245.60	68
1004	J-Venezia 12	88.68	1	1,632	245.55	68
885	J-Talichet 12	88.74	1	816	245.64	68
833	J-Mission Rise 13	88.53	1	2,550	245.52	68
1129	J-Venezia 10	88.52	1	4,488	245.55	68
1064	J-329	88.47	0	0	245.57	68
851	J-Mission Rise 19	88.36	1	4,200	245.53	68
407	J-163	88.00	1	1,224	245.53	68
624	J-194	88.00	1	1,224	245.54	68
126	J-30	88.00	0	0	245.58	68
130	J-31	88.00	0	0	245.58	68
257	J-80	88.00	1	1,632	245.59	68
602	J-188	88.00	0	0	245.64	68
1157	J-330	87.56	0	0	245.57	68
914	J-Talichet 17	87.41	1	2,040	245.64	68
821	J-Mission Rise 9	87.13	1	2,550	245.51	69
402	J-161	87.00	0	0	245.53	69
426	J-168	87.00	0	0	245.53	69
1119	J-Westminster 1	87.02	1	52,500	245.56	69
738	J-Venezia 33	87.00	1	2,448	245.56	69
873	J-The Reserve 8	86.99	0	0	245.57	69
301	J-85	87.00	0	0	245.59	69
176	J-75	87.00	0	0	245.64	69
1017	J-Venezia 6	86.57	0	0	245.55	69
759	J-The Reserve 9	86.74	1	3,450	245.74	69
994	J-Venezia 22	86.52	1	1,632	245.55	69

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Ave Day - Existing Interconnect

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
712	J-215	86.31	0	0	245.54	69
706	J-Venezia 7	86.00	0	0	245.55	69
677	J-WTP1-6	86.25	0	0	245.89	69
678	J-WTP1-5	86.25	0	0	245.89	69
679	J-WTP1-4	86.25	0	0	245.89	69
887	J-Talichet 11	86.01	1	4,896	245.65	69
181	J-68	86.00	0	0	245.65	69
797	J-251	85.79	0	0	245.57	69
793	J-Venezia 35	85.52	0	0	245.57	69
857	J-Mission Rise 21	85.31	1	4,200	245.54	69
790	J-249	85.17	0	0	245.57	69
775	J-The Reserve 1	85.21	0	0	245.62	69
952	J-Venezia 29	85.03	1	2,040	245.55	69
1095	J-The Reserve 6	85.05	1	36,300	245.57	69
854	J-Mission Rise 20	85.00	1	4,200	245.54	69
621	J-193	85.00	1	408	245.55	69
1087	J-The Reserve 2	85.05	1	12,900	245.62	69
1093	J-The Reserve 5	85.01	1	1,500	245.58	69
1097	J-The Reserve 7	85.00	1	36,300	245.57	69
1091	J-The Reserve 4	85.00	1	1,500	245.58	69
470	J-122	85.00	0	0	245.59	69
1089	J-The Reserve 3	85.01	1	10,050	245.60	69
143	J-71	85.00	0	0	245.63	69
141	J-70	85.00	0	0	245.64	69
910	J-Talichet 15	85.00	1	4,488	245.64	70
912	J-Talichet 16	85.00	1	2,856	245.64	70
889	J-Talichet 10	85.00	1	1,224	245.69	70
891	J-Talichet 8	85.00	1	7,344	245.71	70
923	J-Talichet 9	85.00	1	1,224	245.72	70
926	J-295	85.00	1	1,224	245.74	70
549	J-Mitchell 1	85.00	1	5,304	245.74	70
592	J-186	85.00	1	2,856	245.75	70
769	J-238	85.00	0	0	245.86	70
728	J-Venezia 28	84.00	0	0	245.55	70
1183	J-Lake Hills 3	84.00	1	10,800	245.57	70
1205	J-Venezia TH 4	84.00	1	10,800	245.58	70
135	J-34	84.00	1	4,080	245.58	70
139	J-42	84.00	0	0	245.62	70
429	J-43	84.00	1	3,672	245.63	70
554	J-173	84.00	0	0	245.75	70
391	J-152	83.00	0	0	245.53	70
393	J-151	83.00	1	2,448	245.53	70
422	J-150	83.00	1	1,224	245.53	70
718	J-Venezia 11	83.00	1	3,264	245.55	70
722	J-Venezia 27	83.00	1	4,488	245.55	70

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Ave Day - Existing Interconnect

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
249	J-121	83.00	1	2,040	245.59	70
457	J-125	82.31	1	4,080	245.57	71
1012	J-Venezia 9	82.26	1	2,448	245.55	71
754	J-229	82.11	0	0	245.54	71
708	J-Venezia 8	82.00	1	816	245.55	71
1184	J-Lake Hills 4	82.00	1	10,800	245.56	71
485	J-108	82.00	0	0	245.59	71
264	J-117	82.00	0	0	245.59	71
1170	J-369	82.00	0	0	245.74	71
552	J-172	82.00	0	0	245.74	71
1032	J-Venezia 17	81.62	1	816	245.54	71
1023	J-Venezia 13	81.45	1	1,224	245.55	71
756	J-Whispering Hills 1	81.37	0	0	245.54	71
365	J-147	81.00	1	1,224	245.53	71
716	J-Venezia 16	81.00	1	1,632	245.54	71
1177	J-Lake Hills 2	81.00	2	66,500	245.57	71
273	J-113	81.00	0	0	245.59	71
275	J-82	81.00	0	0	245.59	71
150	J-74	81.00	1	816	245.63	71
757	J-231	80.71	0	0	245.54	71
999	J-Venezia 14	80.56	1	1,632	245.55	71
710	J-Venezia 15	80.00	1	1,224	245.54	72
1188	J-Lake Hills 6	80.00	1	10,650	245.56	72
1192	J-Lake Hills 7	79.00	1	10,650	245.56	72
1214	J-Venezia S	79.00	0	0	245.57	72
259	J-119	78.00	1	4,488	245.59	73
419	J-149	77.00	0	0	245.53	73
231	J-130	77.00	0	0	245.54	73
219	J-Island 1	77.00	1	816	245.56	73
289	J-84	77.00	0	0	245.60	73
112	J-72	77.00	0	0	245.61	73
280	J-112	77.00	0	0	245.61	73
148	J-73	77.00	0	0	245.62	73
363	J-148	76.00	0	0	245.53	73
360	J-138	76.00	1	4,488	245.53	73
1196	J-Lake Hills 9	76.00	1	10,800	245.56	73
1104	J-Drake Point 1	75.00	1	26,550	245.51	74
409	J-164	75.00	1	4,896	245.53	74
227	J-129	75.00	1	8,160	245.54	74
1187	J-Lake Hills 5	75.00	1	10,650	245.56	74
1114	J-Cypress Point 1	73.64	1	8,250	245.56	74
413	J-166	72.00	0	0	245.53	75
1189	J-Lake Hills 8	71.00	1	10,650	245.56	76
327	J-101	71.00	1	5,304	245.56	76
1068	J-Whispering Hills 3	70.72	1	18,750	245.53	76

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Ave Day - Existing Interconnect

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
1116	J-Cypress Point 2	70.02	1	8,250	245.56	76
346	J-137	70.00	1	5,304	245.54	76
646	J-200	70.00	0	0	245.55	76
343	J-135	70.00	1	5,304	245.55	76
330	J-100	70.00	1	2,856	245.56	76
313	J-103	70.00	1	7,752	245.57	76
519	J-169	69.00	0	0	245.53	76
417	J-167	68.00	1	3,264	245.53	77
262	J-116	68.00	1	6,120	245.59	77
292	J-110	68.00	0	0	245.59	77
217	J-124	67.00	0	0	245.58	77
299	J-107	67.00	1	5,304	245.59	77
310	J-105	66.00	1	5,712	245.58	78
1070	J-Whispering Hills 4	65.00	1	4,650	245.53	78
225	J-Island 3	65.00	1	3,672	245.56	78
411	J-165	64.00	1	2,040	245.51	79
271	J-115	64.00	1	3,672	245.59	79
296	J-109	64.00	0	0	245.59	79
286	J-111	64.00	1	408	245.59	79
221	J-Island 2	62.00	1	1,632	245.56	79

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max day - Existing Interconnect

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
1248	J-WTP3-1	140.00	0	0	141.97	1
668	J-WTP1-3	81.00	0	0	82.98	1
666	J-WTP1-2	81.00	0	0	82.98	1
664	J-WTP1-1	81.00	0	0	82.98	1
30	J-WTP2-1	130.00	0	0	208.00	34
869	J-Watermark 5	159.36	1	60,053	245.44	37
68	J-Mission Inn 6	154.00	1	16,646	245.55	40
568	J-Mission Inn 5	154.00	0	0	245.56	40
355	J-140	152.00	0	0	245.41	40
44	J-8	152.00	1	1,040	245.42	40
66	J-Mission Inn 10	152.00	0	0	245.55	40
41	J-6	152.00	0	0	245.57	40
46	J-9	151.00	0	0	245.57	41
74	J-Mission Inn 9	150.00	1	4,162	245.55	41
78	J-Mission Inn 4	150.00	0	0	245.56	41
82	J-Mission Inn 3	149.00	0	0	245.56	42
86	J-Mission Inn 2	149.00	1	15,606	245.56	42
70	J-Mission Inn 7	148.00	1	8,323	245.55	42
48	J-Mission Inn 1	148.00	0	0	245.57	42
764	J-Whispering Hills 2	146.07	0	0	245.42	43
374	J-141	146.00	0	0	245.39	43
72	J-Mission Inn 8	146.00	1	4,162	245.55	43
866	J-Watermark 4	145.57	1	9,180	245.45	43
351	J-94	144.00	0	0	245.44	44
539	J-142	141.00	0	0	245.39	45
1217	J-386	141.00	0	0	245.56	45
1122	J-354	140.00	0	0	245.78	46
1178	J-Lake Hills 1	140.00	0	0	245.88	46
1245	J-WTP3-2	140.00	0	0	245.90	46
863	J-Watermark 3	135.17	1	8,415	245.45	48
1162	J-365	135.00	0	0	245.44	48
50	J-Mission Inn 11	134.00	0	0	245.55	48
640	J-198	131.95	0	0	245.50	49
90	J-Mission Inn 14	131.00	0	0	245.57	50
94	J-Mission Inn 15	130.00	0	0	245.57	50
92	J-23	130.00	0	0	245.57	50
96	J-25	130.00	0	0	245.57	50
114	J-27	129.00	1	15,606	245.57	50
338	J-93	128.00	0	0	245.52	51
100	J-26	128.00	1	3,121	245.57	51
442	J-7	128.00	0	0	245.67	51
37	J-5	128.00	0	0	245.68	51
33	J-4	128.00	0	0	245.68	51
31	J-2	128.00	0	0	245.68	51
35	J-3	128.00	0	0	245.69	51

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max day - Existing Interconnect

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
1108	J-Drake Point 3	126.24	1	67,320	245.23	51
52	J-Mission Inn 12	125.00	0	0	245.54	52
54	J-Mission Inn 13	124.00	1	37,454	245.54	53
544	J-170	123.00	0	0	245.38	53
502	J-98	122.00	0	0	245.49	53
490	J-102	122.00	0	0	245.57	53
512	J-96	121.00	0	0	245.44	54
104	J-92	121.00	0	0	245.56	54
102	J-38	121.00	0	0	245.57	54
1106	J-Drake Point 2	120.00	1	67,703	245.24	54
495	J-90	120.00	0	0	245.60	54
325	J-89	120.00	0	0	245.60	54
322	J-88	120.00	0	0	245.61	54
643	J-199	119.72	0	0	245.46	54
340	J-97	119.00	1	14,566	245.47	55
348	J-95	118.00	1	17,687	245.43	55
576	J-183	118.00	0	0	245.61	55
377	J-157	117.00	1	12,485	245.38	56
372	J-143	117.00	1	4,162	245.38	56
315	J-104	117.00	0	0	245.60	56
860	J-Watermark 2	116.57	1	8,415	245.45	56
108	J-39	116.00	0	0	245.62	56
110	J-40	116.00	1	11,444	245.62	56
319	J-87	115.00	0	0	245.61	57
332	J-99	113.00	1	10,404	245.50	57
334	J-91	113.00	1	4,162	245.56	57
106	J-37	112.00	1	5,202	245.59	58
357	J-139	107.00	1	15,606	245.40	60
306	J-106	106.00	0	0	245.63	60
983	J-Venezia 23	105.00	1	12,485	245.46	61
978	J-Venezia 18	105.00	1	10,404	245.52	61
447	J-36	105.00	0	0	245.61	61
612	J-190	104.74	0	0	245.72	61
616	J-191	104.64	1	10,404	245.73	61
529	J-156	104.00	0	0	245.37	61
534	J-144	104.00	0	0	245.38	61
897	J-Talichet 1	104.83	0	0	246.33	61
123	J-35	104.00	1	12,485	245.61	61
121	J-32	104.00	1	20,808	245.61	61
169	J-63	104.00	1	12,485	245.92	61
369	J-145	103.00	1	3,121	245.38	62
304	J-86	103.00	1	3,121	245.64	62
973	J-Venezia 19	102.41	1	11,444	245.52	62
382	J-158	102.00	1	12,485	245.37	62
507	J-136	102.00	0	0	245.47	62

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max day - Existing Interconnect

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
786	J-248	102.22	0	0	245.89	62
215	J-77	102.00	0	0	245.68	62
165	J-60	102.00	1	11,444	245.90	62
167	J-61	102.00	0	0	245.90	62
1110	J-Lake Hills 12	101.23	0	0	245.59	62
772	J-240	100.95	0	0	245.46	63
1148	J-Watermark 1	100.95	0	0	245.46	63
566	J-62	101.00	0	0	245.90	63
809	J-Mission Rise 5	100.08	1	11,093	245.40	63
379	J-155	100.00	1	8,323	245.37	63
211	J-56	100.22	0	0	245.85	63
635	J-197	100.00	0	0	245.68	63
1053	J-Venezia 2	100.09	0	0	245.77	63
773	J-Venezia 1	100.12	0	0	245.81	63
156	J-54	100.06	1	2,081	245.86	63
201	J-52	100.00	0	0	246.01	63
203	J-51	100.00	1	2,081	246.01	63
213	J-Venezia 3	99.00	0	0	245.71	63
812	J-Mission Rise 6	98.40	1	11,093	245.35	64
895	J-Talichet 2	99.21	0	0	246.33	64
968	J-Venezia 20	97.78	1	11,444	245.51	64
815	J-Mission Rise 7	97.32	1	11,093	245.31	64
848	J-Mission Rise 18	97.08	1	10,710	245.36	64
839	J-Mission Rise 15	96.89	1	10,710	245.30	64
702	J-Venezia 4	97.00	1	32,513	245.65	64
688	J-209	97.00	1	5,202	245.87	64
158	J-53	97.00	1	13,525	245.89	64
842	J-Mission Rise 16	96.14	1	10,710	245.31	65
192	J-50	96.50	1	1,040	246.10	65
154	J-58	96.00	1	1,040	245.89	65
629	J-196	96.00	1	13,525	245.89	65
1133	J-Venezia 24	95.33	1	16,646	245.47	65
524	J-154	95.00	0	0	245.37	65
235	J-131	95.00	0	0	245.44	65
239	J-132	95.00	0	0	245.44	65
957	J-Venezia 25	95.00	1	10,404	245.47	65
1168	J-Venezia TH 1	95.00	0	0	245.68	65
465	J-78	95.00	0	0	245.68	65
934	J-Talichet 6	95.60	1	3,121	246.33	65
881	J-Talichet II 1	94.95	1	5,738	245.79	65
607	J-189	95.00	0	0	245.89	65
806	J-Mission Rise 4	94.43	1	11,093	245.44	65
818	J-Mission Rise 8	94.12	1	11,093	245.23	65
824	J-Mission Rise 10	94.09	1	6,503	245.25	65
930	J-Talichet 3	95.16	1	6,242	246.33	65

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max day - Existing Interconnect

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
827	J-Mission Rise 11	94.06	1	6,503	245.25	65
932	J-Talichet 4	95.07	1	3,121	246.33	65
186	J-49	95.08	1	1,040	246.40	65
1166	J-Venezia TH 2	94.00	1	6,885	245.65	66
255	J-79	94.00	1	4,162	245.68	66
1043	J-324	95.01	0	0	246.78	66
1041	J-323	94.88	0	0	246.79	66
386	J-153	93.00	1	6,242	245.37	66
388	J-159	93.00	0	0	245.38	66
367	J-146	93.00	1	3,121	245.38	66
704	J-Venezia 5	93.00	0	0	245.54	66
1100	J-Golden Hills 1	92.58	1	232,178	245.21	66
581	J-184	93.00	0	0	245.66	66
251	J-123	93.00	0	0	245.68	66
963	J-Venezia 21	92.72	1	13,525	245.51	66
194	J-66	93.00	1	3,121	246.01	66
1112	J-Thompson Grove 1	92.46	1	104,040	245.57	66
1102	J-Lake Hills 11	92.23	0	0	245.55	66
1195	J-Lake Hills 10	92.00	1	27,158	245.54	66
116	J-28	92.00	0	0	245.61	66
119	J-29	92.00	1	12,485	245.61	66
879	J-Talichet II 2	92.00	1	2,295	245.78	67
776	J-Cedar Creek 1	91.69	1	65,408	245.56	67
404	J-162	91.00	0	0	245.37	67
1203	J-Venezia TH 3	91.00	1	8,798	245.63	67
475	J-120	91.00	0	0	245.68	67
730	J-Venezia 30	90.81	0	0	245.51	67
1138	J-Venezia 32	90.74	1	4,162	245.54	67
133	J-33	91.00	0	0	245.82	67
152	J-76	91.00	1	8,323	245.94	67
845	J-Mission Rise 17	90.35	1	10,710	245.32	67
883	J-Talichet 14	90.88	1	3,121	245.91	67
1142	J-Mission Rise 1	90.47	0	0	245.58	67
724	J-220	90.23	0	0	245.45	67
836	J-Mission Rise 14	90.07	1	6,503	245.29	67
1035	J-Venezia 34	90.25	1	2,081	245.54	67
400	J-160	90.00	1	16,646	245.37	67
245	J-134	90.00	1	10,404	245.43	67
241	J-133	90.00	0	0	245.43	67
720	J-Venezia 26	90.00	1	5,202	245.47	67
1152	J-Mission Rise 22	89.96	0	0	245.46	67
936	J-Talichet 5	90.78	1	5,202	246.33	67
800	J-Mission Rise 2	89.97	1	10,710	245.56	67
803	J-Mission Rise 3	89.89	1	10,710	245.49	67
480	J-118	90.00	0	0	245.69	67

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max day - Existing Interconnect

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
268	J-81	90.00	1	4,162	245.69	67
876	J-The Reserve 14	89.84	0	0	245.65	67
1059	J-Talichet 13	90.07	1	1,040	245.94	67
830	J-Mission Rise 12	89.37	1	6,503	245.26	67
1084	J-The Reserve 13	89.69	2	126,225	245.62	67
597	J-187	90.00	0	0	246.01	67
179	J-67	90.00	0	0	246.01	68
1081	J-The Reserve 12	89.60	1	2,295	245.62	68
1078	J-The Reserve 11	89.47	1	2,295	245.62	68
556	J-174	91.00	0	0	247.23	68
1075	J-The Reserve 10	89.34	2	132,983	245.62	68
732	J-Venezia 31	89.16	1	6,242	245.54	68
833	J-Mission Rise 13	88.53	1	6,503	245.27	68
893	J-Talichet 7	89.60	1	12,485	246.35	68
432	J-44	90.00	0	0	246.75	68
1004	J-Venezia 12	88.68	1	4,162	245.44	68
762	J-234	88.95	0	0	245.74	68
436	J-45	90.00	0	0	246.79	68
452	J-41	89.00	1	5,202	245.83	68
1129	J-Venezia 10	88.52	1	11,444	245.44	68
173	J-64	89.00	0	0	245.97	68
198	J-65	89.00	1	5,202	245.99	68
851	J-Mission Rise 19	88.36	1	10,710	245.37	68
1064	J-329	88.47	0	0	245.58	68
885	J-Talichet 12	88.74	1	2,081	245.95	68
585	J-185	90.00	0	0	247.27	68
407	J-163	88.00	1	3,121	245.37	68
624	J-194	88.00	1	3,121	245.43	68
126	J-30	88.00	0	0	245.64	68
130	J-31	88.00	0	0	245.67	68
257	J-80	88.00	1	4,162	245.69	68
602	J-188	88.00	0	0	245.97	68
1157	J-330	87.56	0	0	245.56	68
821	J-Mission Rise 9	87.13	1	6,503	245.24	68
402	J-161	87.00	0	0	245.37	69
426	J-168	87.00	0	0	245.37	69
1119	J-Westminster 1	87.02	1	133,875	245.54	69
914	J-Talichet 17	87.41	1	5,202	245.93	69
738	J-Venezia 33	87.00	1	6,242	245.54	69
873	J-The Reserve 8	86.99	0	0	245.55	69
301	J-85	87.00	0	0	245.68	69
1017	J-Venezia 6	86.57	0	0	245.47	69
994	J-Venezia 22	86.52	1	4,162	245.46	69
176	J-75	87.00	0	0	245.99	69
712	J-215	86.31	0	0	245.43	69

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max day - Existing Interconnect

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
706	J-Venezia 7	86.00	0	0	245.46	69
759	J-The Reserve 9	86.74	1	8,798	246.54	69
797	J-251	85.79	0	0	245.59	69
887	J-Talichet 11	86.01	1	31,860	246.01	69
181	J-68	86.00	0	0	246.04	69
793	J-Venezia 35	85.52	0	0	245.56	69
857	J-Mission Rise 21	85.31	1	10,710	245.42	69
854	J-Mission Rise 20	85.00	1	10,710	245.39	69
790	J-249	85.17	0	0	245.59	69
952	J-Venezia 29	85.03	1	5,202	245.45	69
621	J-193	85.00	1	1,040	245.45	69
1095	J-The Reserve 6	85.05	1	92,565	245.61	69
1097	J-The Reserve 7	85.00	1	92,565	245.58	69
1093	J-The Reserve 5	85.01	1	3,825	245.63	69
1091	J-The Reserve 4	85.00	1	3,825	245.66	70
775	J-The Reserve 1	85.21	0	0	245.87	70
470	J-122	85.00	0	0	245.67	70
1089	J-The Reserve 3	85.01	1	25,628	245.73	70
1087	J-The Reserve 2	85.05	1	32,895	245.85	70
910	J-Talichet 15	85.00	1	11,444	245.92	70
912	J-Talichet 16	85.00	1	7,283	245.92	70
143	J-71	85.00	0	0	245.94	70
141	J-70	85.00	0	0	245.96	70
677	J-WTP1-6	86.25	0	0	247.40	70
678	J-WTP1-5	86.25	0	0	247.40	70
679	J-WTP1-4	86.25	0	0	247.40	70
889	J-Talichet 10	85.00	1	3,121	246.23	70
891	J-Talichet 8	85.00	1	18,727	246.39	70
923	J-Talichet 9	85.00	1	3,121	246.40	70
728	J-Venezia 28	84.00	0	0	245.45	70
926	J-295	85.00	1	3,121	246.53	70
549	J-Mitchell 1	85.00	1	13,525	246.54	70
1183	J-Lake Hills 3	84.00	1	27,540	245.57	70
592	J-186	85.00	1	7,283	246.60	70
1205	J-Venezia TH 4	84.00	1	27,540	245.62	70
135	J-34	84.00	1	10,404	245.64	70
139	J-42	84.00	0	0	245.90	70
429	J-43	84.00	1	9,364	245.90	70
769	J-238	85.00	0	0	247.22	70
393	J-151	83.00	1	6,242	245.37	70
422	J-150	83.00	1	3,121	245.37	70
391	J-152	83.00	0	0	245.37	70
718	J-Venezia 11	83.00	1	8,323	245.44	70
722	J-Venezia 27	83.00	1	11,444	245.45	70
554	J-173	84.00	0	0	246.59	70

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max day - Existing Interconnect

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
249	J-121	83.00	1	5,202	245.67	70
1012	J-Venezia 9	82.26	1	6,242	245.45	71
457	J-125	82.31	1	10,404	245.58	71
754	J-229	82.11	0	0	245.43	71
708	J-Venezia 8	82.00	1	2,081	245.45	71
1184	J-Lake Hills 4	82.00	1	27,540	245.53	71
485	J-108	82.00	0	0	245.68	71
264	J-117	82.00	0	0	245.69	71
1032	J-Venezia 17	81.62	1	2,081	245.43	71
1023	J-Venezia 13	81.45	1	3,121	245.44	71
756	J-Whispering Hills 1	81.37	0	0	245.40	71
365	J-147	81.00	1	3,121	245.38	71
716	J-Venezia 16	81.00	1	4,162	245.43	71
1170	J-369	82.00	0	0	246.54	71
552	J-172	82.00	0	0	246.56	71
1177	J-Lake Hills 2	81.00	2	169,575	245.59	71
757	J-231	80.71	0	0	245.41	71
273	J-113	81.00	0	0	245.72	71
275	J-82	81.00	0	0	245.72	71
999	J-Venezia 14	80.56	1	4,162	245.44	71
150	J-74	81.00	1	2,081	245.94	71
710	J-Venezia 15	80.00	1	3,121	245.43	72
1188	J-Lake Hills 6	80.00	1	27,158	245.52	72
1192	J-Lake Hills 7	79.00	1	27,158	245.52	72
1214	J-Venezia S	79.00	0	0	245.56	72
259	J-119	78.00	1	11,444	245.68	73
419	J-149	77.00	0	0	245.38	73
231	J-130	77.00	0	0	245.43	73
219	J-Island 1	77.00	1	2,081	245.51	73
289	J-84	77.00	0	0	245.74	73
112	J-72	77.00	0	0	245.80	73
280	J-112	77.00	0	0	245.83	73
148	J-73	77.00	0	0	245.85	73
363	J-148	76.00	0	0	245.39	73
360	J-138	76.00	1	11,444	245.39	73
1196	J-Lake Hills 9	76.00	1	27,540	245.52	73
1104	J-Drake Point 1	75.00	1	67,703	245.27	74
409	J-164	75.00	1	12,485	245.37	74
227	J-129	75.00	1	20,808	245.43	74
1187	J-Lake Hills 5	75.00	1	27,158	245.52	74
1114	J-Cypress Point 1	73.64	1	21,038	245.54	74
413	J-166	72.00	0	0	245.37	75
1189	J-Lake Hills 8	71.00	1	27,158	245.52	76
327	J-101	71.00	1	13,525	245.53	76
1068	J-Whispering Hills 3	70.72	1	47,813	245.33	76

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max day - Existing Interconnect

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
346	J-137	70.00	1	13,525	245.42	76
646	J-200	70.00	0	0	245.45	76
343	J-135	70.00	1	13,525	245.46	76
330	J-100	70.00	1	7,283	245.51	76
1116	J-Cypress Point 2	70.02	1	21,038	245.54	76
313	J-103	70.00	1	19,768	245.58	76
519	J-169	69.00	0	0	245.38	76
417	J-167	68.00	1	8,323	245.37	77
262	J-116	68.00	1	15,606	245.69	77
292	J-110	68.00	0	0	245.73	77
217	J-124	67.00	0	0	245.65	77
299	J-107	67.00	1	13,525	245.67	77
310	J-105	66.00	1	14,566	245.63	78
1070	J-Whispering Hills 4	65.00	1	11,858	245.33	78
225	J-Island 3	65.00	1	9,364	245.50	78
411	J-165	64.00	1	5,202	245.24	78
271	J-115	64.00	1	9,364	245.71	79
296	J-109	64.00	0	0	245.72	79
286	J-111	64.00	1	1,040	245.72	79
221	J-Island 2	62.00	1	4,162	245.50	79

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
1248	J-WTP3-1	140.00	0	0	141.77	1
668	J-WTP1-3	81.00	0	0	82.98	1
666	J-WTP1-2	81.00	0	0	82.98	1
664	J-WTP1-1	81.00	0	0	82.98	1
30	J-WTP2-1	130.00	0	0	208.00	34
68	J-Mission Inn 6	154.00	2	2,176,646	238.22	36
568	J-Mission Inn 5	154.00	0	0	240.30	37
869	J-Watermark 5	159.36	1	60,053	246.28	38
66	J-Mission Inn 20	152.00	0	0	239.03	38
74	J-Mission Inn 9	150.00	1	4,162	238.22	38
70	J-Mission Inn 7	148.00	1	8,323	238.22	39
72	J-Mission Inn 8	146.00	1	4,162	238.22	40
78	J-Mission Inn 4	150.00	0	0	242.81	40
355	J-140	152.00	0	0	245.50	40
44	J-8	152.00	1	1,040	245.51	40
82	J-Mission Inn 3	149.00	0	0	242.91	41
86	J-Mission Inn 2	149.00	1	15,606	243.17	41
46	J-9	151.00	0	0	246.34	41
41	J-6	152.00	0	0	249.02	42
48	J-Mission Inn 1	148.00	0	0	245.73	42
374	J-141	146.00	0	0	245.48	43
764	J-Whispering Hills 2	146.07	0	0	246.21	43
1217	J-386	141.00	0	0	241.48	43
866	J-Watermark 4	145.57	1	9,180	246.29	44
351	J-94	144.00	0	0	245.53	44
539	J-142	141.00	0	0	245.48	45
50	J-Mission Inn 11	134.00	0	0	240.49	46
863	J-Watermark 3	135.17	1	8,415	246.29	48
1162	J-365	135.00	0	0	246.28	48
640	J-198	131.95	0	0	245.58	49
90	J-Mission Inn 14	131.00	0	0	245.34	49
94	J-Mission Inn 15	130.00	0	0	245.44	50
52	J-Mission Inn 12	125.00	0	0	240.47	50
92	J-23	130.00	0	0	245.57	50
96	J-25	130.00	0	0	245.57	50
54	J-Mission Inn 13	124.00	1	37,454	240.47	50
114	J-27	129.00	1	15,606	245.60	50
338	J-93	128.00	0	0	245.59	51
100	J-26	128.00	1	3,121	245.59	51
544	J-170	123.00	0	0	245.47	53
502	J-98	122.00	0	0	245.58	53
490	J-102	122.00	0	0	245.73	54
512	J-96	121.00	0	0	245.54	54
104	J-92	121.00	0	0	245.62	54
102	J-38	121.00	0	0	245.62	54

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
495	J-90	120.00	0	0	245.76	54
325	J-89	120.00	0	0	245.77	54
322	J-88	120.00	0	0	245.77	54
643	J-199	119.72	0	0	245.56	54
340	J-97	119.00	1	14,566	245.57	55
348	J-95	118.00	1	17,687	245.52	55
576	J-183	118.00	0	0	245.78	55
377	J-157	117.00	1	12,485	245.47	56
372	J-143	117.00	1	4,162	245.48	56
315	J-104	117.00	0	0	245.80	56
860	J-Watermark 2	116.57	1	8,415	246.30	56
108	J-39	116.00	0	0	245.79	56
110	J-40	116.00	1	11,444	245.79	56
319	J-87	115.00	0	0	245.82	57
332	J-99	113.00	1	10,404	245.61	57
334	J-91	113.00	1	4,162	245.64	57
106	J-37	112.00	1	5,202	245.71	58
357	J-139	107.00	1	15,606	245.49	60
306	J-106	106.00	0	0	245.90	61
447	J-36	105.00	0	0	245.74	61
983	J-Venezia 23	105.00	1	12,485	246.29	61
978	J-Venezia 18	105.00	1	10,404	246.36	61
612	J-190	104.74	0	0	246.17	61
529	J-156	104.00	0	0	245.47	61
534	J-144	104.00	0	0	245.48	61
616	J-191	104.64	1	10,404	246.18	61
123	J-35	104.00	1	12,485	245.75	61
121	J-32	104.00	1	20,808	245.76	61
897	J-Talichet 1	104.83	0	0	247.20	62
169	J-63	104.00	1	12,485	246.43	62
369	J-145	103.00	1	3,121	245.48	62
304	J-86	103.00	1	3,121	245.90	62
382	J-158	102.00	1	12,485	245.47	62
507	J-136	102.00	0	0	245.57	62
973	J-Venezia 19	102.41	1	11,444	246.36	62
215	J-77	102.00	0	0	246.12	62
786	J-248	102.22	0	0	246.40	62
165	J-60	102.00	1	11,444	246.41	62
167	J-61	102.00	0	0	246.41	62
772	J-240	100.95	0	0	246.31	63
1148	J-Watermark 1	100.95	0	0	246.31	63
566	J-62	101.00	0	0	246.41	63
379	J-155	100.00	1	8,323	245.47	63
635	J-197	100.00	0	0	246.12	63
211	J-56	100.22	0	0	246.34	63

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
809	J-Mission Rise 5	100.08	1	11,093	246.27	63
156	J-54	100.06	1	2,081	246.36	63
1053	J-Venezia 2	100.09	0	0	246.63	63
201	J-52	100.00	0	0	246.54	63
773	J-Venezia 1	100.12	0	0	246.66	63
203	J-51	100.00	1	2,081	246.55	63
213	J-Venezia 3	99.00	0	0	246.56	64
812	J-Mission Rise 6	98.40	1	11,093	246.23	64
895	J-Talichet 2	99.21	0	0	247.21	64
968	J-Venezia 20	97.78	1	11,444	246.35	64
815	J-Mission Rise 7	97.32	1	11,093	246.19	64
848	J-Mission Rise 18	97.08	1	10,710	246.21	65
839	J-Mission Rise 15	96.89	1	10,710	246.16	65
688	J-209	97.00	1	5,202	246.37	65
158	J-53	97.00	1	13,525	246.40	65
702	J-Venezia 4	97.00	1	32,513	246.50	65
842	J-Mission Rise 16	96.14	1	10,710	246.17	65
192	J-50	96.50	1	1,040	246.67	65
154	J-58	96.00	1	1,040	246.40	65
629	J-196	96.00	1	13,525	246.40	65
524	J-154	95.00	0	0	245.47	65
1133	J-Venezia 24	95.33	1	16,646	246.29	65
465	J-78	95.00	0	0	246.12	65
235	J-131	95.00	0	0	246.25	65
239	J-132	95.00	0	0	246.25	65
957	J-Venezia 25	95.00	1	10,404	246.30	65
607	J-189	95.00	0	0	246.40	66
1168	J-Venezia TH 1	95.00	0	0	246.53	66
934	J-Talichet 6	95.60	1	3,121	247.20	66
881	J-Talichet II 1	94.95	1	5,738	246.66	66
806	J-Mission Rise 4	94.43	1	11,093	246.32	66
818	J-Mission Rise 8	94.12	1	11,093	246.11	66
186	J-49	95.08	1	1,040	247.10	66
824	J-Mission Rise 10	94.09	1	6,503	246.12	66
930	J-Talichet 3	95.16	1	6,242	247.21	66
827	J-Mission Rise 11	94.06	1	6,503	246.12	66
255	J-79	94.00	1	4,162	246.12	66
932	J-Talichet 4	95.07	1	3,121	247.20	66
386	J-153	93.00	1	6,242	245.47	66
388	J-159	93.00	0	0	245.47	66
367	J-146	93.00	1	3,121	245.47	66
1166	J-Venezia TH 2	94.00	1	6,885	246.50	66
1043	J-324	95.01	0	0	247.65	66
1041	J-323	94.88	0	0	247.66	66
581	J-184	93.00	0	0	245.96	66

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
251	J-123	93.00	0	0	246.11	66
704	J-Venezia 5	93.00	0	0	246.38	66
1100	J-Golden Hills 1	92.58	1	232,178	246.08	66
194	J-66	93.00	1	3,121	246.55	66
963	J-Venezia 21	92.72	1	13,525	246.35	66
116	J-28	92.00	0	0	245.75	67
119	J-29	92.00	1	12,485	245.75	67
404	J-162	91.00	0	0	245.47	67
879	J-Talichet II 2	92.00	1	2,295	246.65	67
776	J-Cedar Creek 1	91.69	1	65,408	246.44	67
475	J-120	91.00	0	0	246.11	67
133	J-33	91.00	0	0	246.15	67
152	J-76	91.00	1	8,323	246.45	67
400	J-160	90.00	1	16,646	245.47	67
1203	J-Venezia TH 3	91.00	1	8,798	246.48	67
730	J-Venezia 30	90.81	0	0	246.35	67
1138	J-Venezia 32	90.74	1	4,162	246.39	67
845	J-Mission Rise 17	90.35	1	10,710	246.18	67
883	J-Talichet 14	90.88	1	3,121	246.79	67
1142	J-Mission Rise 1	90.47	0	0	246.47	67
724	J-220	90.23	0	0	246.28	68
836	J-Mission Rise 14	90.07	1	6,503	246.15	68
480	J-118	90.00	0	0	246.11	68
268	J-81	90.00	1	4,162	246.11	68
1035	J-Venezia 34	90.25	1	2,081	246.39	68
245	J-134	90.00	1	10,404	246.25	68
241	J-133	90.00	0	0	246.25	68
720	J-Venezia 26	90.00	1	5,202	246.30	68
1152	J-Mission Rise 22	89.96	0	0	246.31	68
936	J-Talichet 5	90.78	1	5,202	247.20	68
800	J-Mission Rise 2	89.97	1	10,710	246.45	68
803	J-Mission Rise 3	89.89	1	10,710	246.38	68
1122	J-354	140.00	0	0	296.51	68
597	J-187	90.00	0	0	246.53	68
179	J-67	90.00	0	0	246.55	68
876	J-The Reserve 14	89.84	0	0	246.51	68
1059	J-Talichet 13	90.07	1	1,040	246.81	68
830	J-Mission Rise 12	89.37	1	6,503	246.12	68
1084	J-The Reserve 13	89.69	2	126,225	246.48	68
1081	J-The Reserve 12	89.60	1	2,295	246.48	68
1078	J-The Reserve 11	89.47	1	2,295	246.48	68
1075	J-The Reserve 10	89.34	2	132,983	246.48	68
452	J-41	89.00	1	5,202	246.16	68
556	J-174	91.00	0	0	248.21	68
732	J-Venezia 31	89.16	1	6,242	246.39	68

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
1178	J-Lake Hills 1	140.00	0	0	297.44	68
407	J-163	88.00	1	3,121	245.47	68
173	J-64	89.00	0	0	246.49	68
198	J-65	89.00	1	5,202	246.51	68
1004	J-Venezia 12	88.68	1	4,162	246.26	68
432	J-44	90.00	0	0	247.60	68
833	J-Mission Rise 13	88.53	1	6,503	246.13	68
893	J-Talichet 7	89.60	1	12,485	247.23	68
762	J-234	88.95	0	0	246.61	68
1245	J-WTP3-2	140.00	0	0	297.66	68
436	J-45	90.00	0	0	247.66	68
1129	J-Venezia 10	88.52	1	11,444	246.26	68
126	J-30	88.00	0	0	245.81	68
130	J-31	88.00	0	0	245.86	68
851	J-Mission Rise 19	88.36	1	10,710	246.23	68
1064	J-329	88.47	0	0	246.43	68
885	J-Talichet 12	88.74	1	2,081	246.83	68
257	J-80	88.00	1	4,162	246.11	68
624	J-194	88.00	1	3,121	246.25	68
585	J-185	90.00	0	0	248.25	68
402	J-161	87.00	0	0	245.47	69
426	J-168	87.00	0	0	245.47	69
602	J-188	88.00	0	0	246.49	69
1157	J-330	87.56	0	0	246.42	69
821	J-Mission Rise 9	87.13	1	6,503	246.11	69
301	J-85	87.00	0	0	246.00	69
738	J-Venezia 33	87.00	1	6,242	246.39	69
914	J-Talichet 17	87.41	1	5,202	246.81	69
873	J-The Reserve 8	86.99	0	0	246.41	69
176	J-75	87.00	0	0	246.51	69
1017	J-Venezia 6	86.57	0	0	246.29	69
994	J-Venezia 22	86.52	1	4,162	246.29	69
712	J-215	86.31	0	0	246.22	69
706	J-Venezia 7	86.00	0	0	246.29	69
181	J-68	86.00	0	0	246.57	69
797	J-251	85.79	0	0	246.45	70
759	J-The Reserve 9	86.74	1	8,798	247.46	70
887	J-Talichet 11	86.01	1	31,860	246.89	70
793	J-Venezia 35	85.52	0	0	246.41	70
857	J-Mission Rise 21	85.31	1	10,710	246.27	70
470	J-122	85.00	0	0	246.11	70
854	J-Mission Rise 20	85.00	1	10,710	246.25	70
952	J-Venezia 29	85.03	1	5,202	246.28	70
790	J-249	85.17	0	0	246.44	70
621	J-193	85.00	1	1,040	246.28	70

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
143	J-71	85.00	0	0	246.37	70
141	J-70	85.00	0	0	246.40	70
1095	J-The Reserve 6	85.05	1	92,565	246.48	70
1097	J-The Reserve 7	85.00	1	92,565	246.44	70
1093	J-The Reserve 5	85.01	1	3,825	246.51	70
1091	J-The Reserve 4	85.00	1	3,825	246.54	70
775	J-The Reserve 1	85.21	0	0	246.77	70
1089	J-The Reserve 3	85.01	1	25,628	246.61	70
1087	J-The Reserve 2	85.05	1	32,895	246.74	70
910	J-Talichet 15	85.00	1	11,444	246.80	70
912	J-Talichet 16	85.00	1	7,283	246.80	70
135	J-34	84.00	1	10,404	245.82	70
889	J-Talichet 10	85.00	1	3,121	247.12	70
677	J-WTP1-6	86.25	0	0	248.41	70
678	J-WTP1-5	86.25	0	0	248.41	70
679	J-WTP1-4	86.25	0	0	248.41	70
139	J-42	84.00	0	0	246.28	70
891	J-Talichet 8	85.00	1	18,727	247.28	70
728	J-Venezia 28	84.00	0	0	246.28	70
923	J-Talichet 9	85.00	1	3,121	247.29	70
429	J-43	84.00	1	9,364	246.30	70
442	J-7	128.00	0	0	290.38	70
926	J-295	85.00	1	3,121	247.44	70
549	J-Mitchell 1	85.00	1	13,525	247.46	70
393	J-151	83.00	1	6,242	245.47	70
422	J-150	83.00	1	3,121	245.47	70
391	J-152	83.00	0	0	245.47	70
1205	J-Venezia TH 4	84.00	1	27,540	246.47	70
592	J-186	85.00	1	7,283	247.52	70
249	J-121	83.00	1	5,202	246.11	71
769	J-238	85.00	0	0	248.20	71
718	J-Venezia 11	83.00	1	8,323	246.26	71
722	J-Venezia 27	83.00	1	11,444	246.28	71
554	J-173	84.00	0	0	247.50	71
457	J-125	82.31	1	10,404	246.09	71
485	J-108	82.00	0	0	246.00	71
1012	J-Venezia 9	82.26	1	6,242	246.26	71
754	J-229	82.11	0	0	246.22	71
264	J-117	82.00	0	0	246.11	71
37	J-5	128.00	0	0	292.21	71
708	J-Venezia 8	82.00	1	2,081	246.26	71
365	J-147	81.00	1	3,121	245.47	71
1032	J-Venezia 17	81.62	1	2,081	246.23	71
756	J-Whispering Hills 1	81.37	0	0	246.10	71
1023	J-Venezia 13	81.45	1	3,121	246.25	71

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
273	J-113	81.00	0	0	246.12	71
275	J-82	81.00	0	0	246.12	71
716	J-Venezia 16	81.00	1	4,162	246.23	71
757	J-231	80.71	0	0	246.10	72
150	J-74	81.00	1	2,081	246.43	72
1170	J-369	82.00	0	0	247.46	72
552	J-172	82.00	0	0	247.48	72
999	J-Venezia 14	80.56	1	4,162	246.24	72
710	J-Venezia 15	80.00	1	3,121	246.23	72
31	J-2	128.00	0	0	294.74	72
33	J-4	128.00	0	0	294.75	72
35	J-3	128.00	0	0	294.84	72
1214	J-Venezia S	79.00	0	0	246.42	72
259	J-119	78.00	1	11,444	246.11	73
419	J-149	77.00	0	0	245.48	73
219	J-Island 1	77.00	1	2,081	246.08	73
289	J-84	77.00	0	0	246.13	73
112	J-72	77.00	0	0	246.18	73
231	J-130	77.00	0	0	246.21	73
280	J-112	77.00	0	0	246.25	73
148	J-73	77.00	0	0	246.28	73
363	J-148	76.00	0	0	245.48	73
360	J-138	76.00	1	11,444	245.48	73
1108	J-Drake Point 3	126.24	1	67,320	295.74	73
409	J-164	75.00	1	12,485	245.46	74
227	J-129	75.00	1	20,808	246.08	74
413	J-166	72.00	0	0	245.47	75
327	J-101	71.00	1	13,525	245.68	76
1068	J-Whispering Hills 3	70.72	1	47,813	246.05	76
346	J-137	70.00	1	13,525	245.52	76
646	J-200	70.00	0	0	245.56	76
343	J-135	70.00	1	13,525	245.57	76
330	J-100	70.00	1	7,283	245.64	76
1106	J-Drake Point 2	120.00	1	67,703	295.74	76
313	J-103	70.00	1	19,768	245.79	76
519	J-169	69.00	0	0	245.47	76
417	J-167	68.00	1	8,323	245.47	77
262	J-116	68.00	1	15,606	246.11	77
292	J-110	68.00	0	0	246.11	77
299	J-107	67.00	1	13,525	245.99	77
217	J-124	67.00	0	0	246.11	77
310	J-105	66.00	1	14,566	245.89	78
1070	J-Whispering Hills 4	65.00	1	11,858	246.05	78
225	J-Island 3	65.00	1	9,364	246.07	78
411	J-165	64.00	1	5,202	245.34	78

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
296	J-109	64.00	0	0	246.11	79
271	J-115	64.00	1	9,364	246.11	79
286	J-111	64.00	1	1,040	246.12	79
221	J-Island 2	62.00	1	4,162	246.08	80
1110	J-Lake Hills 12	101.23	0	0	294.96	84
1112	J-Thompson Grove 1	92.46	1	104,040	294.94	88
1102	J-Lake Hills 11	92.23	0	0	296.05	88
1195	J-Lake Hills 10	92.00	1	27,158	295.99	88
1119	J-Westminster 1	87.02	1	133,875	294.91	90
1183	J-Lake Hills 3	84.00	1	27,540	295.75	92
1184	J-Lake Hills 4	82.00	1	27,540	295.75	92
1177	J-Lake Hills 2	81.00	2	169,575	295.75	93
1188	J-Lake Hills 6	80.00	1	27,158	295.76	93
1192	J-Lake Hills 7	79.00	1	27,158	295.78	94
1196	J-Lake Hills 9	76.00	1	27,540	295.90	95
1187	J-Lake Hills 5	75.00	1	27,158	295.76	96
1104	J-Drake Point 1	75.00	1	67,703	295.77	96
1114	J-Cypress Point 1	73.64	1	21,038	294.91	96
1189	J-Lake Hills 8	71.00	1	27,158	295.83	97
1116	J-Cypress Point 2	70.02	1	21,038	294.91	97

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect + Fire (South)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
668	J-WTP1-3	81.00	0	0	82.95	1
666	J-WTP1-2	81.00	0	0	82.95	1
664	J-WTP1-1	81.00	0	0	82.95	1
1248	J-WTP3-1	140.00	0	0	141.97	1
30	J-WTP2-1	130.00	0	0	208.00	34
869	J-Watermark 5	159.36	2	1,500,053	238.21	34
68	J-Mission Inn 6	154.00	1	16,646	245.55	40
568	J-Mission Inn 5	154.00	0	0	245.56	40
355	J-140	152.00	0	0	245.40	40
44	J-8	152.00	1	1,040	245.42	40
866	J-Watermark 4	145.57	1	9,180	239.00	40
66	J-Mission Inn 10	152.00	0	0	245.55	40
41	J-6	152.00	0	0	245.57	40
46	J-9	151.00	0	0	245.57	41
74	J-Mission Inn 9	150.00	1	4,162	245.55	41
78	J-Mission Inn 4	150.00	0	0	245.56	41
764	J-Whispering Hills 2	146.07	0	0	241.68	41
82	J-Mission Inn 3	149.00	0	0	245.56	42
86	J-Mission Inn 2	149.00	1	15,606	245.56	42
70	J-Mission Inn 7	148.00	1	8,323	245.55	42
48	J-Mission Inn 1	148.00	0	0	245.57	42
374	J-141	146.00	0	0	245.38	43
72	J-Mission Inn 8	146.00	1	4,162	245.55	43
351	J-94	144.00	0	0	245.44	44
1162	J-365	135.00	0	0	238.56	45
863	J-Watermark 3	135.17	1	8,415	239.46	45
539	J-142	141.00	0	0	245.38	45
1217	J-386	141.00	0	0	245.56	45
1122	J-354	140.00	0	0	245.78	46
1178	J-Lake Hills 1	140.00	0	0	245.88	46
1245	J-WTP3-2	140.00	0	0	245.90	46
50	J-Mission Inn 11	134.00	0	0	245.55	48
640	J-198	131.95	0	0	245.50	49
90	J-Mission Inn 14	131.00	0	0	245.57	50
94	J-Mission Inn 15	130.00	0	0	245.57	50
92	J-23	130.00	0	0	245.57	50
96	J-25	130.00	0	0	245.57	50
114	J-27	129.00	1	15,606	245.57	50
338	J-93	128.00	0	0	245.51	51
100	J-26	128.00	1	3,121	245.57	51
442	J-7	128.00	0	0	245.67	51
37	J-5	128.00	0	0	245.68	51
33	J-4	128.00	0	0	245.68	51
31	J-2	128.00	0	0	245.68	51
35	J-3	128.00	0	0	245.69	51

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect + Fire (South)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
1108	J-Drake Point 3	126.24	1	67,320	245.23	51
52	J-Mission Inn 12	125.00	0	0	245.54	52
54	J-Mission Inn 13	124.00	1	37,454	245.54	53
544	J-170	123.00	0	0	245.37	53
502	J-98	122.00	0	0	245.48	53
490	J-102	122.00	0	0	245.56	53
860	J-Watermark 2	116.57	1	8,415	240.49	54
512	J-96	121.00	0	0	245.44	54
104	J-92	121.00	0	0	245.56	54
102	J-38	121.00	0	0	245.57	54
1106	J-Drake Point 2	120.00	1	67,703	245.24	54
495	J-90	120.00	0	0	245.59	54
325	J-89	120.00	0	0	245.60	54
322	J-88	120.00	0	0	245.60	54
643	J-199	119.72	0	0	245.45	54
340	J-97	119.00	1	14,566	245.46	55
348	J-95	118.00	1	17,687	245.42	55
576	J-183	118.00	0	0	245.60	55
377	J-157	117.00	1	12,485	245.37	56
372	J-143	117.00	1	4,162	245.38	56
315	J-104	117.00	0	0	245.58	56
108	J-39	116.00	0	0	245.62	56
110	J-40	116.00	1	11,444	245.62	56
319	J-87	115.00	0	0	245.60	57
332	J-99	113.00	1	10,404	245.50	57
334	J-91	113.00	1	4,162	245.56	57
106	J-37	112.00	1	5,202	245.59	58
983	J-Venezia 23	105.00	1	12,485	241.62	59
978	J-Venezia 18	105.00	1	10,404	242.21	59
357	J-139	107.00	1	15,606	245.39	60
306	J-106	106.00	0	0	245.61	60
973	J-Venezia 19	102.41	1	11,444	242.14	60
772	J-240	100.95	0	0	240.97	61
1148	J-Watermark 1	100.95	0	0	240.97	61
447	J-36	105.00	0	0	245.61	61
612	J-190	104.74	0	0	245.48	61
897	J-Talichet 1	104.83	0	0	245.63	61
616	J-191	104.64	1	10,404	245.51	61
529	J-156	104.00	0	0	245.37	61
534	J-144	104.00	0	0	245.38	61
123	J-35	104.00	1	12,485	245.62	61
121	J-32	104.00	1	20,808	245.62	61
169	J-63	104.00	1	12,485	245.95	61
369	J-145	103.00	1	3,121	245.38	62
809	J-Mission Rise 5	100.08	1	11,093	242.54	62

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect + Fire (South)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
304	J-86	103.00	1	3,121	245.61	62
382	J-158	102.00	1	12,485	245.37	62
215	J-77	102.00	0	0	245.38	62
507	J-136	102.00	0	0	245.46	62
1053	J-Venezia 2	100.09	0	0	243.56	62
773	J-Venezia 1	100.12	0	0	243.70	62
786	J-248	102.22	0	0	245.90	62
165	J-60	102.00	1	11,444	245.92	62
167	J-61	102.00	0	0	245.92	62
812	J-Mission Rise 6	98.40	1	11,093	242.37	62
213	J-Venezia 3	99.00	0	0	243.29	62
968	J-Venezia 20	97.78	1	11,444	242.08	62
1110	J-Lake Hills 12	101.23	0	0	245.59	62
848	J-Mission Rise 18	97.08	1	10,710	241.47	62
839	J-Mission Rise 15	96.89	1	10,710	241.53	63
815	J-Mission Rise 7	97.32	1	11,093	242.21	63
566	J-62	101.00	0	0	245.92	63
379	J-155	100.00	1	8,323	245.37	63
635	J-197	100.00	0	0	245.37	63
842	J-Mission Rise 16	96.14	1	10,710	241.52	63
211	J-56	100.22	0	0	245.80	63
239	J-132	95.00	0	0	240.59	63
235	J-131	95.00	0	0	240.71	63
156	J-54	100.06	1	2,081	245.83	63
702	J-Venezia 4	97.00	1	32,513	243.05	63
201	J-52	100.00	0	0	246.08	63
203	J-51	100.00	1	2,081	246.09	63
1133	J-Venezia 24	95.33	1	16,646	241.52	63
895	J-Talichet 2	99.21	0	0	245.64	63
957	J-Venezia 25	95.00	1	10,404	241.48	63
827	J-Mission Rise 11	94.06	1	6,503	241.70	64
824	J-Mission Rise 10	94.09	1	6,503	241.73	64
818	J-Mission Rise 8	94.12	1	11,093	241.87	64
1168	J-Venezia TH 1	95.00	0	0	243.19	64
806	J-Mission Rise 4	94.43	1	11,093	242.70	64
688	J-209	97.00	1	5,202	245.85	64
158	J-53	97.00	1	13,525	245.90	64
881	J-Talichet II 1	94.95	1	5,738	244.01	64
1166	J-Venezia TH 2	94.00	1	6,885	243.08	65
1100	J-Golden Hills 1	92.58	1	232,178	241.84	65
704	J-Venezia 5	93.00	0	0	242.29	65
963	J-Venezia 21	92.72	1	13,525	242.03	65
192	J-50	96.50	1	1,040	246.22	65
154	J-58	96.00	1	1,040	245.90	65
629	J-196	96.00	1	13,525	245.91	65

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect + Fire (South)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
724	J-220	90.23	0	0	240.22	65
934	J-Talichet 6	95.60	1	3,121	245.64	65
524	J-154	95.00	0	0	245.37	65
465	J-78	95.00	0	0	245.39	65
930	J-Talichet 3	95.16	1	6,242	245.64	65
932	J-Talichet 4	95.07	1	3,121	245.64	65
245	J-134	90.00	1	10,404	240.59	65
241	J-133	90.00	0	0	240.59	65
607	J-189	95.00	0	0	245.90	65
845	J-Mission Rise 17	90.35	1	10,710	241.50	65
730	J-Venezia 30	90.81	0	0	242.02	65
255	J-79	94.00	1	4,162	245.39	65
776	J-Cedar Creek 1	91.69	1	65,408	243.16	66
1152	J-Mission Rise 22	89.96	0	0	241.43	66
720	J-Venezia 26	90.00	1	5,202	241.48	66
836	J-Mission Rise 14	90.07	1	6,503	241.57	66
186	J-49	95.08	1	1,040	246.65	66
1138	J-Venezia 32	90.74	1	4,162	242.33	66
879	J-Talichet II 2	92.00	1	2,295	243.97	66
1203	J-Venezia TH 3	91.00	1	8,798	243.06	66
1035	J-Venezia 34	90.25	1	2,081	242.33	66
1043	J-324	95.01	0	0	247.18	66
830	J-Mission Rise 12	89.37	1	6,503	241.67	66
1041	J-323	94.88	0	0	247.21	66
251	J-123	93.00	0	0	245.36	66
386	J-153	93.00	1	6,242	245.37	66
388	J-159	93.00	0	0	245.37	66
367	J-146	93.00	1	3,121	245.37	66
581	J-184	93.00	0	0	245.63	66
1142	J-Mission Rise 1	90.47	0	0	243.18	66
624	J-194	88.00	1	3,121	240.86	66
803	J-Mission Rise 3	89.89	1	10,710	242.89	66
1004	J-Venezia 12	88.68	1	4,162	241.73	66
194	J-66	93.00	1	3,121	246.09	66
833	J-Mission Rise 13	88.53	1	6,503	241.63	66
851	J-Mission Rise 19	88.36	1	10,710	241.46	66
1112	J-Thompson Grove 1	92.46	1	104,040	245.57	66
800	J-Mission Rise 2	89.97	1	10,710	243.13	66
732	J-Venezia 31	89.16	1	6,242	242.33	66
1129	J-Venezia 10	88.52	1	11,444	241.73	66
1102	J-Lake Hills 11	92.23	0	0	245.55	66
876	J-The Reserve 14	89.84	0	0	243.19	66
1084	J-The Reserve 13	89.69	2	126,225	243.20	66
1195	J-Lake Hills 10	92.00	1	27,158	245.54	66
883	J-Talichet 14	90.88	1	3,121	244.49	66

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect + Fire (South)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
116	J-28	92.00	0	0	245.62	66
119	J-29	92.00	1	12,485	245.62	66
1081	J-The Reserve 12	89.60	1	2,295	243.24	66
1078	J-The Reserve 11	89.47	1	2,295	243.30	67
1075	J-The Reserve 10	89.34	2	132,983	243.36	67
1064	J-329	88.47	0	0	242.60	67
404	J-162	91.00	0	0	245.37	67
475	J-120	91.00	0	0	245.42	67
1059	J-Talichet 13	90.07	1	1,040	244.57	67
821	J-Mission Rise 9	87.13	1	6,503	241.76	67
936	J-Talichet 5	90.78	1	5,202	245.64	67
133	J-33	91.00	0	0	245.89	67
762	J-234	88.95	0	0	243.85	67
1157	J-330	87.56	0	0	242.49	67
152	J-76	91.00	1	8,323	245.99	67
994	J-Venezia 22	86.52	1	4,162	241.71	67
621	J-193	85.00	1	1,040	240.22	67
1017	J-Venezia 6	86.57	0	0	241.80	67
738	J-Venezia 33	87.00	1	6,242	242.33	67
400	J-160	90.00	1	16,646	245.37	67
712	J-215	86.31	0	0	241.68	67
952	J-Venezia 29	85.03	1	5,202	240.42	67
873	J-The Reserve 8	86.99	0	0	242.42	67
480	J-118	90.00	0	0	245.50	67
268	J-81	90.00	1	4,162	245.50	67
706	J-Venezia 7	86.00	0	0	241.76	67
885	J-Talichet 12	88.74	1	2,081	244.62	67
597	J-187	90.00	0	0	246.08	68
179	J-67	90.00	0	0	246.10	68
893	J-Talichet 7	89.60	1	12,485	245.72	68
857	J-Mission Rise 21	85.31	1	10,710	241.44	68
728	J-Venezia 28	84.00	0	0	240.42	68
854	J-Mission Rise 20	85.00	1	10,710	241.45	68
452	J-41	89.00	1	5,202	245.90	68
797	J-251	85.79	0	0	242.74	68
793	J-Venezia 35	85.52	0	0	242.47	68
173	J-64	89.00	0	0	246.04	68
198	J-65	89.00	1	5,202	246.06	68
432	J-44	90.00	0	0	247.16	68
914	J-Talichet 17	87.41	1	5,202	244.57	68
556	J-174	91.00	0	0	248.18	68
436	J-45	90.00	0	0	247.21	68
407	J-163	88.00	1	3,121	245.37	68
722	J-Venezia 27	83.00	1	11,444	240.42	68
257	J-80	88.00	1	4,162	245.43	68

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect + Fire (South)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
790	J-249	85.17	0	0	242.67	68
126	J-30	88.00	0	0	245.66	68
130	J-31	88.00	0	0	245.69	68
1097	J-The Reserve 7	85.00	1	92,565	242.75	68
1095	J-The Reserve 6	85.05	1	92,565	242.95	68
602	J-188	88.00	0	0	246.03	68
1093	J-The Reserve 5	85.01	1	3,825	243.07	68
1091	J-The Reserve 4	85.00	1	3,825	243.18	68
585	J-185	90.00	0	0	248.30	68
402	J-161	87.00	0	0	245.37	69
426	J-168	87.00	0	0	245.37	69
1089	J-The Reserve 3	85.01	1	25,628	243.45	69
1119	J-Westminster 1	87.02	1	133,875	245.54	69
301	J-85	87.00	0	0	245.64	69
718	J-Venezia 11	83.00	1	8,323	241.73	69
775	J-The Reserve 1	85.21	0	0	243.99	69
887	J-Talichet 11	86.01	1	31,860	244.82	69
1087	J-The Reserve 2	85.05	1	32,895	243.89	69
1205	J-Venezia TH 4	84.00	1	27,540	243.05	69
176	J-75	87.00	0	0	246.06	69
1012	J-Venezia 9	82.26	1	6,242	241.73	69
910	J-Talichet 15	85.00	1	11,444	244.52	69
912	J-Talichet 16	85.00	1	7,283	244.54	69
754	J-229	82.11	0	0	241.68	69
759	J-The Reserve 9	86.74	1	8,798	246.45	69
708	J-Venezia 8	82.00	1	2,081	241.73	69
1032	J-Venezia 17	81.62	1	2,081	241.69	69
181	J-68	86.00	0	0	246.13	69
1023	J-Venezia 13	81.45	1	3,121	241.72	69
470	J-122	85.00	0	0	245.34	69
889	J-Talichet 10	85.00	1	3,121	245.43	69
756	J-Whispering Hills 1	81.37	0	0	241.94	69
716	J-Venezia 16	81.00	1	4,162	241.69	70
891	J-Talichet 8	85.00	1	18,727	245.88	70
923	J-Talichet 9	85.00	1	3,121	245.91	70
143	J-71	85.00	0	0	246.02	70
141	J-70	85.00	0	0	246.06	70
999	J-Venezia 14	80.56	1	4,162	241.70	70
757	J-231	80.71	0	0	241.96	70
926	J-295	85.00	1	3,121	246.30	70
549	J-Mitchell 1	85.00	1	13,525	246.45	70
592	J-186	85.00	1	7,283	246.51	70
1183	J-Lake Hills 3	84.00	1	27,540	245.57	70
135	J-34	84.00	1	10,404	245.65	70
710	J-Venezia 15	80.00	1	3,121	241.69	70

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect + Fire (South)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
139	J-42	84.00	0	0	245.98	70
429	J-43	84.00	1	9,364	245.99	70
457	J-125	82.31	1	10,404	244.63	70
249	J-121	83.00	1	5,202	245.34	70
393	J-151	83.00	1	6,242	245.37	70
422	J-150	83.00	1	3,121	245.37	70
391	J-152	83.00	0	0	245.37	70
677	J-WTP1-6	86.25	0	0	248.63	70
678	J-WTP1-5	86.25	0	0	248.63	70
679	J-WTP1-4	86.25	0	0	248.63	70
554	J-173	84.00	0	0	246.49	70
769	J-238	85.00	0	0	248.14	71
1214	J-Venezia S	79.00	0	0	242.49	71
264	J-117	82.00	0	0	245.49	71
1184	J-Lake Hills 4	82.00	1	27,540	245.53	71
485	J-108	82.00	0	0	245.64	71
365	J-147	81.00	1	3,121	245.37	71
1170	J-369	82.00	0	0	246.45	71
552	J-172	82.00	0	0	246.47	71
1177	J-Lake Hills 2	81.00	2	169,575	245.59	71
273	J-113	81.00	0	0	245.59	71
275	J-82	81.00	0	0	245.59	71
231	J-130	77.00	0	0	241.71	71
150	J-74	81.00	1	2,081	245.99	71
1188	J-Lake Hills 6	80.00	1	27,158	245.52	72
1192	J-Lake Hills 7	79.00	1	27,158	245.52	72
219	J-Island 1	77.00	1	2,081	244.01	72
259	J-119	78.00	1	11,444	245.42	72
227	J-129	75.00	1	20,808	242.83	73
419	J-149	77.00	0	0	245.38	73
289	J-84	77.00	0	0	245.70	73
112	J-72	77.00	0	0	245.79	73
280	J-112	77.00	0	0	245.83	73
148	J-73	77.00	0	0	245.86	73
363	J-148	76.00	0	0	245.38	73
360	J-138	76.00	1	11,444	245.38	73
1196	J-Lake Hills 9	76.00	1	27,540	245.52	73
1104	J-Drake Point 1	75.00	1	67,703	245.27	74
409	J-164	75.00	1	12,485	245.36	74
1187	J-Lake Hills 5	75.00	1	27,158	245.52	74
1068	J-Whispering Hills 3	70.72	1	47,813	241.70	74
1114	J-Cypress Point 1	73.64	1	21,038	245.54	74
413	J-166	72.00	0	0	245.37	75
327	J-101	71.00	1	13,525	245.52	76
1189	J-Lake Hills 8	71.00	1	27,158	245.52	76

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect + Fire (South)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
346	J-137	70.00	1	13,525	245.42	76
646	J-200	70.00	0	0	245.45	76
343	J-135	70.00	1	13,525	245.46	76
330	J-100	70.00	1	7,283	245.50	76
1116	J-Cypress Point 2	70.02	1	21,038	245.54	76
313	J-103	70.00	1	19,768	245.57	76
519	J-169	69.00	0	0	245.37	76
1070	J-Whispering Hills 4	65.00	1	11,858	241.70	76
417	J-167	68.00	1	8,323	245.37	77
262	J-116	68.00	1	15,606	245.49	77
292	J-110	68.00	0	0	245.67	77
217	J-124	67.00	0	0	245.18	77
299	J-107	67.00	1	13,525	245.63	77
225	J-Island 3	65.00	1	9,364	244.00	77
310	J-105	66.00	1	14,566	245.60	78
411	J-165	64.00	1	5,202	245.24	78
271	J-115	64.00	1	9,364	245.59	79
296	J-109	64.00	0	0	245.66	79
286	J-111	64.00	1	1,040	245.66	79
221	J-Island 2	62.00	1	4,162	244.00	79

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 1 Off-Line

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
1248	J-WTP3-1	140.00	0	0	141.74	1
664	J-WTP1-1	81.00	0	0	83.00	1
666	J-WTP1-2	81.00	0	0	83.00	1
668	J-WTP1-3	81.00	0	0	83.00	1
869	J-Watermark 5	159.36	1	60,053	224.60	28
30	J-WTP2-1	130.00	0	0	208.00	34
764	J-Whispering Hills 2	146.07	0	0	224.77	34
866	J-Watermark 4	145.57	1	9,180	224.60	34
355	J-140	152.00	0	0	236.65	37
44	J-8	152.00	1	1,040	236.78	37
863	J-Watermark 3	135.17	1	8,415	224.60	39
1162	J-365	135.00	0	0	224.61	39
374	J-141	146.00	0	0	236.54	39
351	J-94	144.00	0	0	236.95	40
539	J-142	141.00	0	0	236.53	41
568	J-Mission Inn 5	154.00	0	0	250.03	42
68	J-Mission Inn 6	154.00	1	16,646	250.22	42
66	J-Mission Inn 10	152.00	0	0	250.37	43
78	J-Mission Inn 4	150.00	0	0	249.79	43
74	J-Mission Inn 9	150.00	1	4,162	250.22	43
86	J-Mission Inn 2	149.00	1	15,606	249.76	44
82	J-Mission Inn 3	149.00	0	0	249.78	44
46	J-9	151.00	0	0	251.79	44
48	J-Mission Inn 1	148.00	0	0	250.13	44
70	J-Mission Inn 7	148.00	1	8,323	250.22	44
41	J-6	152.00	0	0	254.93	45
72	J-Mission Inn 8	146.00	1	4,162	250.22	45
640	J-198	131.95	0	0	237.56	46
860	J-Watermark 2	116.57	1	8,415	224.60	47
338	J-93	128.00	0	0	237.76	47
1217	J-386	141.00	0	0	250.83	48
114	J-27	129.00	1	15,606	241.11	49
490	J-102	122.00	0	0	235.44	49
544	J-170	123.00	0	0	236.50	49
100	J-26	128.00	1	3,121	241.64	49
96	J-25	130.00	0	0	244.14	49
90	J-Mission Inn 14	131.00	0	0	245.62	50
94	J-Mission Inn 15	130.00	0	0	244.96	50
502	J-98	122.00	0	0	237.05	50
322	J-88	120.00	0	0	235.37	50
325	J-89	120.00	0	0	235.41	50
512	J-96	121.00	0	0	236.53	50
495	J-90	120.00	0	0	235.56	50
92	J-23	130.00	0	0	245.57	50
50	J-Mission Inn 11	134.00	0	0	250.63	50

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 1 Off-Line

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
643	J-199	119.72	0	0	236.53	51
576	J-183	118.00	0	0	235.14	51
315	J-104	117.00	0	0	234.20	51
104	J-92	121.00	0	0	238.45	51
340	J-97	119.00	1	14,566	236.53	51
102	J-38	121.00	0	0	238.83	51
348	J-95	118.00	1	17,687	236.52	51
319	J-87	115.00	0	0	234.21	52
110	J-40	116.00	1	11,444	235.30	52
108	J-39	116.00	0	0	235.36	52
377	J-157	117.00	1	12,485	236.49	52
372	J-143	117.00	1	4,162	236.50	52
983	J-Venezia 23	105.00	1	12,485	224.70	52
978	J-Venezia 18	105.00	1	10,404	224.73	52
897	J-Talichet 1	104.83	0	0	225.44	52
973	J-Venezia 19	102.41	1	11,444	224.72	53
332	J-99	113.00	1	10,404	236.47	53
772	J-240	100.95	0	0	224.60	53
1148	J-Watermark 1	100.95	0	0	224.60	53
334	J-91	113.00	1	4,162	236.89	54
809	J-Mission Rise 5	100.08	1	11,093	224.40	54
612	J-190	104.74	0	0	229.45	54
616	J-191	104.64	1	10,404	229.42	54
773	J-Venezia 1	100.12	0	0	224.94	54
1053	J-Venezia 2	100.09	0	0	224.92	54
106	J-37	112.00	1	5,202	237.04	54
169	J-63	104.00	1	12,485	229.10	54
52	J-Mission Inn 12	125.00	0	0	250.61	54
213	J-Venezia 3	99.00	0	0	224.87	54
812	J-Mission Rise 6	98.40	1	11,093	224.36	54
895	J-Talichet 2	99.21	0	0	225.43	55
54	J-Mission Inn 13	124.00	1	37,454	250.61	55
786	J-248	102.22	0	0	229.11	55
968	J-Venezia 20	97.78	1	11,444	224.71	55
815	J-Mission Rise 7	97.32	1	11,093	224.33	55
306	J-106	106.00	0	0	233.08	55
165	J-60	102.00	1	11,444	229.10	55
167	J-61	102.00	0	0	229.10	55
848	J-Mission Rise 18	97.08	1	10,710	224.46	55
839	J-Mission Rise 15	96.89	1	10,710	224.38	55
215	J-77	102.00	0	0	229.58	55
702	J-Venezia 4	97.00	1	32,513	224.83	55
566	J-62	101.00	0	0	229.10	55
842	J-Mission Rise 16	96.14	1	10,710	224.39	55
203	J-51	100.00	1	2,081	228.93	56

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 1 Off-Line

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
201	J-52	100.00	0	0	228.94	56
211	J-56	100.22	0	0	229.18	56
156	J-54	100.06	1	2,081	229.15	56
1133	J-Venezia 24	95.33	1	16,646	224.69	56
357	J-139	107.00	1	15,606	236.50	56
635	J-197	100.00	0	0	229.57	56
239	J-132	95.00	0	0	224.67	56
235	J-131	95.00	0	0	224.67	56
957	J-Venezia 25	95.00	1	10,404	224.68	56
934	J-Talichet 6	95.60	1	3,121	225.43	56
1168	J-Venezia TH 1	95.00	0	0	224.85	56
881	J-Talichet II 1	94.95	1	5,738	224.88	56
806	J-Mission Rise 4	94.43	1	11,093	224.43	56
304	J-86	103.00	1	3,121	233.08	56
818	J-Mission Rise 8	94.12	1	11,093	224.27	56
824	J-Mission Rise 10	94.09	1	6,503	224.29	56
827	J-Mission Rise 11	94.06	1	6,503	224.30	56
930	J-Talichet 3	95.16	1	6,242	225.43	56
932	J-Talichet 4	95.07	1	3,121	225.43	56
1166	J-Venezia TH 2	94.00	1	6,885	224.83	57
1043	J-324	95.01	0	0	226.03	57
1041	J-323	94.88	0	0	226.03	57
447	J-36	105.00	0	0	236.32	57
1100	J-Golden Hills 1	92.58	1	232,178	224.24	57
704	J-Venezia 5	93.00	0	0	224.75	57
963	J-Venezia 21	92.72	1	13,525	224.70	57
158	J-53	97.00	1	13,525	229.10	57
688	J-209	97.00	1	5,202	229.14	57
192	J-50	96.50	1	1,040	228.65	57
121	J-32	104.00	1	20,808	236.17	57
123	J-35	104.00	1	12,485	236.18	57
529	J-156	104.00	0	0	236.47	57
534	J-144	104.00	0	0	236.49	57
186	J-49	95.08	1	1,040	227.57	57
776	J-Cedar Creek 1	91.69	1	65,408	224.53	57
879	J-Talichet II 2	92.00	1	2,295	224.87	57
154	J-58	96.00	1	1,040	229.11	58
629	J-196	96.00	1	13,525	229.12	58
369	J-145	103.00	1	3,121	236.48	58
1203	J-Venezia TH 3	91.00	1	8,798	224.80	58
730	J-Venezia 30	90.81	0	0	224.70	58
1138	J-Venezia 32	90.74	1	4,162	224.71	58
845	J-Mission Rise 17	90.35	1	10,710	224.41	58
1142	J-Mission Rise 1	90.47	0	0	224.55	58
883	J-Talichet 14	90.88	1	3,121	224.98	58

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 1 Off-Line

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
607	J-189	95.00	0	0	229.12	58
836	J-Mission Rise 14	90.07	1	6,503	224.36	58
724	J-220	90.23	0	0	224.65	58
1035	J-Venezia 34	90.25	1	2,081	224.70	58
507	J-136	102.00	0	0	236.46	58
382	J-158	102.00	1	12,485	236.47	58
800	J-Mission Rise 2	89.97	1	10,710	224.54	58
803	J-Mission Rise 3	89.89	1	10,710	224.48	58
1152	J-Mission Rise 22	89.96	0	0	224.60	58
936	J-Talichet 5	90.78	1	5,202	225.43	58
465	J-78	95.00	0	0	229.66	58
245	J-134	90.00	1	10,404	224.66	58
241	J-133	90.00	0	0	224.66	58
720	J-Venezia 26	90.00	1	5,202	224.68	58
556	J-174	91.00	0	0	225.78	58
1059	J-Talichet 13	90.07	1	1,040	225.00	58
830	J-Mission Rise 12	89.37	1	6,503	224.31	58
876	J-The Reserve 14	89.84	0	0	224.78	58
1084	J-The Reserve 13	89.69	2	126,225	224.74	58
1081	J-The Reserve 12	89.60	1	2,295	224.74	58
1078	J-The Reserve 11	89.47	1	2,295	224.74	59
1075	J-The Reserve 10	89.34	2	132,983	224.74	59
732	J-Venezia 31	89.16	1	6,242	224.71	59
255	J-79	94.00	1	4,162	229.67	59
585	J-185	90.00	0	0	225.80	59
833	J-Mission Rise 13	88.53	1	6,503	224.33	59
893	J-Talichet 7	89.60	1	12,485	225.42	59
762	J-234	88.95	0	0	224.84	59
436	J-45	90.00	0	0	226.03	59
194	J-66	93.00	1	3,121	229.04	59
1004	J-Venezia 12	88.68	1	4,162	224.72	59
851	J-Mission Rise 19	88.36	1	10,710	224.48	59
1129	J-Venezia 10	88.52	1	11,444	224.73	59
1064	J-329	88.47	0	0	224.70	59
432	J-44	90.00	0	0	226.28	59
885	J-Talichet 12	88.74	1	2,081	225.01	59
379	J-155	100.00	1	8,323	236.47	59
251	J-123	93.00	0	0	229.67	59
624	J-194	88.00	1	3,121	224.69	59
1157	J-330	87.56	0	0	224.68	59
821	J-Mission Rise 9	87.13	1	6,503	224.29	59
914	J-Talichet 17	87.41	1	5,202	225.00	60
873	J-The Reserve 8	86.99	0	0	224.66	60
738	J-Venezia 33	87.00	1	6,242	224.70	60
1017	J-Venezia 6	86.57	0	0	224.73	60

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 1 Off-Line

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
152	J-76	91.00	1	8,323	229.20	60
994	J-Venezia 22	86.52	1	4,162	224.72	60
712	J-215	86.31	0	0	224.76	60
759	J-The Reserve 9	86.74	1	8,798	225.43	60
706	J-Venezia 7	86.00	0	0	224.73	60
797	J-251	85.79	0	0	224.73	60
475	J-120	91.00	0	0	230.00	60
887	J-Talichet 11	86.01	1	31,860	225.07	60
179	J-67	90.00	0	0	229.06	60
597	J-187	90.00	0	0	229.06	60
793	J-Venezia 35	85.52	0	0	224.71	60
857	J-Mission Rise 21	85.31	1	10,710	224.54	60
854	J-Mission Rise 20	85.00	1	10,710	224.51	60
581	J-184	93.00	0	0	232.52	60
790	J-249	85.17	0	0	224.72	60
677	J-WTP1-6	86.25	0	0	225.80	60
678	J-WTP1-5	86.25	0	0	225.80	60
679	J-WTP1-4	86.25	0	0	225.80	60
775	J-The Reserve 1	85.21	0	0	224.81	60
1095	J-The Reserve 6	85.05	1	92,565	224.67	60
952	J-Venezia 29	85.03	1	5,202	224.65	60
621	J-193	85.00	1	1,040	224.65	60
1097	J-The Reserve 7	85.00	1	92,565	224.66	60
1093	J-The Reserve 5	85.01	1	3,825	224.68	60
1091	J-The Reserve 4	85.00	1	3,825	224.70	60
1089	J-The Reserve 3	85.01	1	25,628	224.73	60
1087	J-The Reserve 2	85.05	1	32,895	224.79	60
910	J-Talichet 15	85.00	1	11,444	224.99	61
912	J-Talichet 16	85.00	1	7,283	224.99	61
198	J-65	89.00	1	5,202	229.05	61
173	J-64	89.00	0	0	229.10	61
889	J-Talichet 10	85.00	1	3,121	225.26	61
480	J-118	90.00	0	0	230.36	61
268	J-81	90.00	1	4,162	230.36	61
923	J-Talichet 9	85.00	1	3,121	225.41	61
891	J-Talichet 8	85.00	1	18,727	225.41	61
549	J-Mitchell 1	85.00	1	13,525	225.43	61
926	J-295	85.00	1	3,121	225.46	61
592	J-186	85.00	1	7,283	225.49	61
728	J-Venezia 28	84.00	0	0	224.65	61
769	J-238	85.00	0	0	225.76	61
1205	J-Venezia TH 4	84.00	1	27,540	224.79	61
602	J-188	88.00	0	0	229.10	61
524	J-154	95.00	0	0	236.46	61
554	J-173	84.00	0	0	225.47	61

Howey In The Hills Water System FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 1 Off-Line

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
722	J-Venezia 27	83.00	1	11,444	224.65	61
718	J-Venezia 11	83.00	1	8,323	224.72	61
133	J-33	91.00	0	0	232.80	61
257	J-80	88.00	1	4,162	230.00	61
176	J-75	87.00	0	0	229.13	61
1012	J-Venezia 9	82.26	1	6,242	224.73	62
754	J-229	82.11	0	0	224.76	62
708	J-Venezia 8	82.00	1	2,081	224.73	62
181	J-68	86.00	0	0	229.06	62
1032	J-Venezia 17	81.62	1	2,081	224.75	62
1023	J-Venezia 13	81.45	1	3,121	224.74	62
1170	J-369	82.00	0	0	225.43	62
552	J-172	82.00	0	0	225.45	62
386	J-153	93.00	1	6,242	236.45	62
388	J-159	93.00	0	0	236.46	62
367	J-146	93.00	1	3,121	236.46	62
452	J-41	89.00	1	5,202	232.69	62
716	J-Venezia 16	81.00	1	4,162	224.75	62
756	J-Whispering Hills 1	81.37	0	0	225.14	62
999	J-Venezia 14	80.56	1	4,162	224.75	62
757	J-231	80.71	0	0	225.16	62
119	J-29	92.00	1	12,485	236.52	63
116	J-28	92.00	0	0	236.65	63
470	J-122	85.00	0	0	229.67	63
710	J-Venezia 15	80.00	1	3,121	224.75	63
301	J-85	87.00	0	0	232.14	63
404	J-162	91.00	0	0	236.44	63
1214	J-Venezia S	79.00	0	0	224.68	63
141	J-70	85.00	0	0	231.03	63
143	J-71	85.00	0	0	231.05	63
457	J-125	82.31	1	10,404	228.71	63
400	J-160	90.00	1	16,646	236.44	63
249	J-121	83.00	1	5,202	229.67	63
130	J-31	88.00	0	0	235.37	64
429	J-43	84.00	1	9,364	231.42	64
231	J-130	77.00	0	0	224.80	64
139	J-42	84.00	0	0	231.84	64
126	J-30	88.00	0	0	235.95	64
264	J-117	82.00	0	0	230.36	64
407	J-163	88.00	1	3,121	236.44	64
150	J-74	81.00	1	2,081	229.45	64
402	J-161	87.00	0	0	236.44	65
426	J-168	87.00	0	0	236.44	65
273	J-113	81.00	0	0	230.78	65
275	J-82	81.00	0	0	230.78	65

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 1 Off-Line

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
485	J-108	82.00	0	0	232.14	65
219	J-Island 1	77.00	1	2,081	227.91	65
135	J-34	84.00	1	10,404	235.17	65
227	J-129	75.00	1	20,808	226.36	65
259	J-119	78.00	1	11,444	230.00	66
422	J-150	83.00	1	3,121	236.44	66
393	J-151	83.00	1	6,242	236.44	66
391	J-152	83.00	0	0	236.44	66
148	J-73	77.00	0	0	230.55	66
280	J-112	77.00	0	0	230.61	66
1068	J-Whispering Hills 3	70.72	1	47,813	224.83	67
112	J-72	77.00	0	0	231.22	67
289	J-84	77.00	0	0	231.23	67
365	J-147	81.00	1	3,121	236.44	67
419	J-149	77.00	0	0	236.44	69
1070	J-Whispering Hills 4	65.00	1	11,858	224.83	69
360	J-138	76.00	1	11,444	236.44	69
363	J-148	76.00	0	0	236.44	69
409	J-164	75.00	1	12,485	236.44	70
262	J-116	68.00	1	15,606	230.36	70
217	J-124	67.00	0	0	229.41	70
225	J-Island 3	65.00	1	9,364	227.90	70
292	J-110	68.00	0	0	231.22	71
313	J-103	70.00	1	19,768	234.20	71
413	J-166	72.00	0	0	236.44	71
327	J-101	71.00	1	13,525	235.48	71
299	J-107	67.00	1	13,525	232.14	71
330	J-100	70.00	1	7,283	235.83	72
221	J-Island 2	62.00	1	4,162	227.90	72
343	J-135	70.00	1	13,525	236.28	72
646	J-200	70.00	0	0	236.31	72
346	J-137	70.00	1	13,525	236.41	72
271	J-115	64.00	1	9,364	230.76	72
286	J-111	64.00	1	1,040	231.02	72
310	J-105	66.00	1	14,566	233.08	72
296	J-109	64.00	0	0	231.22	72
519	J-169	69.00	0	0	236.44	72
417	J-167	68.00	1	8,323	236.44	73
1122	J-354	140.00	0	0	310.50	74
1178	J-Lake Hills 1	140.00	0	0	311.55	74
1245	J-WTP3-2	140.00	0	0	311.80	74
411	J-165	64.00	1	5,202	236.31	75
442	J-7	128.00	0	0	303.38	76
37	J-5	128.00	0	0	305.52	77
31	J-2	128.00	0	0	308.49	78

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 1 Off-Line

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
33	J-4	128.00	0	0	308.50	78
35	J-3	128.00	0	0	308.60	78
1108	J-Drake Point 3	126.24	1	67,320	309.71	79
1106	J-Drake Point 2	120.00	1	67,703	309.72	82
1110	J-Lake Hills 12	101.23	0	0	308.76	90
1112	J-Thompson Grove 1	92.46	1	104,040	308.74	94
1102	J-Lake Hills 11	92.23	0	0	310.02	94
1195	J-Lake Hills 10	92.00	1	27,158	309.96	94
1119	J-Westminster 1	87.02	1	133,875	308.72	96
1183	J-Lake Hills 3	84.00	1	27,540	309.68	98
1184	J-Lake Hills 4	82.00	1	27,540	309.69	99
1177	J-Lake Hills 2	81.00	2	169,575	309.68	99
1188	J-Lake Hills 6	80.00	1	27,158	309.70	99
1192	J-Lake Hills 7	79.00	1	27,158	309.72	100
1196	J-Lake Hills 9	76.00	1	27,540	309.86	101
1187	J-Lake Hills 5	75.00	1	27,158	309.69	102
1104	J-Drake Point 1	75.00	1	67,703	309.75	102
1114	J-Cypress Point 1	73.64	1	21,038	308.71	102
1116	J-Cypress Point 2	70.02	1	21,038	308.71	103
1189	J-Lake Hills 8	71.00	1	27,158	309.77	103

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 1 Off-Line + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
869	J-Watermark 5	159.36	1	60,053	14.03	-63
764	J-Whispering Hills 2	146.07	0	0	14.20	-57
866	J-Watermark 4	145.57	1	9,180	14.03	-57
355	J-140	152.00	0	0	26.08	-54
44	J-8	152.00	1	1,040	26.22	-54
863	J-Watermark 3	135.17	1	8,415	14.03	-52
68	J-Mission Inn 6	154.00	2	2,176,646	32.91	-52
1162	J-365	135.00	0	0	14.04	-52
374	J-141	146.00	0	0	25.97	-52
568	J-Mission Inn 5	154.00	0	0	34.18	-52
66	J-Mission Inn 10	152.00	0	0	34.23	-51
351	J-94	144.00	0	0	26.38	-51
74	J-Mission Inn 9	150.00	1	4,162	32.91	-51
70	J-Mission Inn 7	148.00	1	8,323	32.91	-50
539	J-142	141.00	0	0	25.97	-50
78	J-Mission Inn 4	150.00	0	0	35.71	-49
82	J-Mission Inn 3	149.00	0	0	35.77	-49
72	J-Mission Inn 8	146.00	1	4,162	32.91	-49
86	J-Mission Inn 2	149.00	1	15,606	35.93	-49
48	J-Mission Inn 1	148.00	0	0	41.57	-46
640	J-198	131.95	0	0	26.99	-45
46	J-9	151.00	0	0	46.04	-45
1217	J-386	141.00	0	0	38.22	-44
860	J-Watermark 2	116.57	1	8,415	14.03	-44
338	J-93	128.00	0	0	27.19	-44
114	J-27	129.00	1	15,606	30.54	-43
50	J-Mission Inn 11	134.00	0	0	36.62	-42
490	J-102	122.00	0	0	24.87	-42
544	J-170	123.00	0	0	25.93	-42
100	J-26	128.00	1	3,121	31.08	-42
96	J-25	130.00	0	0	33.57	-42
90	J-Mission Inn 14	131.00	0	0	34.91	-42
94	J-Mission Inn 15	130.00	0	0	34.31	-41
502	J-98	122.00	0	0	26.48	-41
322	J-88	120.00	0	0	24.80	-41
325	J-89	120.00	0	0	24.84	-41
512	J-96	121.00	0	0	25.96	-41
41	J-6	152.00	0	0	56.98	-41
495	J-90	120.00	0	0	24.99	-41
92	J-23	130.00	0	0	35.04	-41
643	J-199	119.72	0	0	25.96	-41
576	J-183	118.00	0	0	24.57	-40
315	J-104	117.00	0	0	23.63	-40

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 1 Off-Line + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
104	J-92	121.00	0	0	27.88	-40
340	J-97	119.00	1	14,566	25.96	-40
102	J-38	121.00	0	0	28.26	-40
348	J-95	118.00	1	17,687	25.96	-40
319	J-87	115.00	0	0	23.64	-40
110	J-40	116.00	1	11,444	24.73	-39
108	J-39	116.00	0	0	24.80	-39
377	J-157	117.00	1	12,485	25.92	-39
372	J-143	117.00	1	4,162	25.93	-39
983	J-Venezia 23	105.00	1	12,485	14.14	-39
978	J-Venezia 18	105.00	1	10,404	14.16	-39
897	J-Talichet 1	104.83	0	0	14.87	-39
52	J-Mission Inn 12	125.00	0	0	36.60	-38
973	J-Venezia 19	102.41	1	11,444	14.15	-38
54	J-Mission Inn 13	124.00	1	37,454	36.60	-38
332	J-99	113.00	1	10,404	25.90	-38
772	J-240	100.95	0	0	14.03	-38
1148	J-Watermark 1	100.95	0	0	14.03	-38
334	J-91	113.00	1	4,162	26.33	-37
809	J-Mission Rise 5	100.08	1	11,093	13.83	-37
612	J-190	104.74	0	0	18.88	-37
616	J-191	104.64	1	10,404	18.85	-37
773	J-Venezia 1	100.12	0	0	14.38	-37
1053	J-Venezia 2	100.09	0	0	14.35	-37
106	J-37	112.00	1	5,202	26.48	-37
169	J-63	104.00	1	12,485	18.53	-37
213	J-Venezia 3	99.00	0	0	14.30	-37
812	J-Mission Rise 6	98.40	1	11,093	13.80	-37
895	J-Talichet 2	99.21	0	0	14.87	-36
786	J-248	102.22	0	0	18.54	-36
968	J-Venezia 20	97.78	1	11,444	14.14	-36
815	J-Mission Rise 7	97.32	1	11,093	13.76	-36
306	J-106	106.00	0	0	22.51	-36
165	J-60	102.00	1	11,444	18.53	-36
167	J-61	102.00	0	0	18.53	-36
848	J-Mission Rise 18	97.08	1	10,710	13.89	-36
839	J-Mission Rise 15	96.89	1	10,710	13.82	-36
215	J-77	102.00	0	0	19.01	-36
702	J-Venezia 4	97.00	1	32,513	14.26	-36
566	J-62	101.00	0	0	18.53	-36
842	J-Mission Rise 16	96.14	1	10,710	13.83	-36
203	J-51	100.00	1	2,081	18.36	-35
201	J-52	100.00	0	0	18.37	-35

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 1 Off-Line + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
211	J-56	100.22	0	0	18.61	-35
156	J-54	100.06	1	2,081	18.59	-35
1133	J-Venezia 24	95.33	1	16,646	14.12	-35
357	J-139	107.00	1	15,606	25.94	-35
635	J-197	100.00	0	0	19.01	-35
239	J-132	95.00	0	0	14.10	-35
235	J-131	95.00	0	0	14.11	-35
957	J-Venezia 25	95.00	1	10,404	14.12	-35
934	J-Talichet 6	95.60	1	3,121	14.87	-35
1168	J-Venezia TH 1	95.00	0	0	14.28	-35
881	J-Talichet II 1	94.95	1	5,738	14.31	-35
806	J-Mission Rise 4	94.43	1	11,093	13.87	-35
304	J-86	103.00	1	3,121	22.51	-35
818	J-Mission Rise 8	94.12	1	11,093	13.70	-35
824	J-Mission Rise 10	94.09	1	6,503	13.73	-35
827	J-Mission Rise 11	94.06	1	6,503	13.74	-35
930	J-Talichet 3	95.16	1	6,242	14.87	-35
932	J-Talichet 4	95.07	1	3,121	14.87	-35
1166	J-Venezia TH 2	94.00	1	6,885	14.26	-34
1043	J-324	95.01	0	0	15.46	-34
1041	J-323	94.88	0	0	15.46	-34
447	J-36	105.00	0	0	25.76	-34
1100	J-Golden Hills 1	92.58	1	232,178	13.67	-34
704	J-Venezia 5	93.00	0	0	14.19	-34
963	J-Venezia 21	92.72	1	13,525	14.13	-34
158	J-53	97.00	1	13,525	18.54	-34
688	J-209	97.00	1	5,202	18.57	-34
192	J-50	96.50	1	1,040	18.08	-34
121	J-32	104.00	1	20,808	25.61	-34
123	J-35	104.00	1	12,485	25.62	-34
529	J-156	104.00	0	0	25.91	-34
534	J-144	104.00	0	0	25.92	-34
186	J-49	95.08	1	1,040	17.00	-34
776	J-Cedar Creek 1	91.69	1	65,408	13.96	-34
879	J-Talichet II 2	92.00	1	2,295	14.30	-34
154	J-58	96.00	1	1,040	18.55	-34
629	J-196	96.00	1	13,525	18.55	-34
369	J-145	103.00	1	3,121	25.91	-33
1203	J-Venezia TH 3	91.00	1	8,798	14.24	-33
730	J-Venezia 30	90.81	0	0	14.13	-33
1138	J-Venezia 32	90.74	1	4,162	14.14	-33
845	J-Mission Rise 17	90.35	1	10,710	13.84	-33
1142	J-Mission Rise 1	90.47	0	0	13.98	-33

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 1 Off-Line + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
883	J-Talichet 14	90.88	1	3,121	14.42	-33
607	J-189	95.00	0	0	18.55	-33
836	J-Mission Rise 14	90.07	1	6,503	13.79	-33
724	J-220	90.23	0	0	14.08	-33
1035	J-Venezia 34	90.25	1	2,081	14.14	-33
507	J-136	102.00	0	0	25.89	-33
382	J-158	102.00	1	12,485	25.90	-33
800	J-Mission Rise 2	89.97	1	10,710	13.97	-33
803	J-Mission Rise 3	89.89	1	10,710	13.91	-33
1152	J-Mission Rise 22	89.96	0	0	14.03	-33
936	J-Talichet 5	90.78	1	5,202	14.87	-33
465	J-78	95.00	0	0	19.09	-33
245	J-134	90.00	1	10,404	14.09	-33
241	J-133	90.00	0	0	14.10	-33
720	J-Venezia 26	90.00	1	5,202	14.12	-33
556	J-174	91.00	0	0	15.21	-33
1059	J-Talichet 13	90.07	1	1,040	14.44	-33
830	J-Mission Rise 12	89.37	1	6,503	13.75	-33
876	J-The Reserve 14	89.84	0	0	14.22	-33
1084	J-The Reserve 13	89.69	2	126,225	14.18	-33
1081	J-The Reserve 12	89.60	1	2,295	14.18	-33
1078	J-The Reserve 11	89.47	1	2,295	14.18	-33
1075	J-The Reserve 10	89.34	2	132,983	14.18	-33
732	J-Venezia 31	89.16	1	6,242	14.14	-32
255	J-79	94.00	1	4,162	19.10	-32
585	J-185	90.00	0	0	15.23	-32
833	J-Mission Rise 13	88.53	1	6,503	13.76	-32
893	J-Talichet 7	89.60	1	12,485	14.85	-32
762	J-234	88.95	0	0	14.28	-32
436	J-45	90.00	0	0	15.47	-32
194	J-66	93.00	1	3,121	18.47	-32
1004	J-Venezia 12	88.68	1	4,162	14.16	-32
851	J-Mission Rise 19	88.36	1	10,710	13.92	-32
1129	J-Venezia 10	88.52	1	11,444	14.16	-32
1064	J-329	88.47	0	0	14.14	-32
432	J-44	90.00	0	0	15.71	-32
885	J-Talichet 12	88.74	1	2,081	14.45	-32
379	J-155	100.00	1	8,323	25.90	-32
251	J-123	93.00	0	0	19.11	-32
624	J-194	88.00	1	3,121	14.12	-32
1157	J-330	87.56	0	0	14.11	-32
821	J-Mission Rise 9	87.13	1	6,503	13.72	-32
914	J-Talichet 17	87.41	1	5,202	14.44	-32

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 1 Off-Line + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
873	J-The Reserve 8	86.99	0	0	14.09	-32
738	J-Venezia 33	87.00	1	6,242	14.14	-32
1017	J-Venezia 6	86.57	0	0	14.17	-31
152	J-76	91.00	1	8,323	18.63	-31
994	J-Venezia 22	86.52	1	4,162	14.15	-31
712	J-215	86.31	0	0	14.19	-31
759	J-The Reserve 9	86.74	1	8,798	14.86	-31
706	J-Venezia 7	86.00	0	0	14.16	-31
797	J-251	85.79	0	0	14.16	-31
475	J-120	91.00	0	0	19.44	-31
887	J-Talichet 11	86.01	1	31,860	14.50	-31
179	J-67	90.00	0	0	18.49	-31
597	J-187	90.00	0	0	18.50	-31
793	J-Venezia 35	85.52	0	0	14.14	-31
857	J-Mission Rise 21	85.31	1	10,710	13.97	-31
854	J-Mission Rise 20	85.00	1	10,710	13.94	-31
581	J-184	93.00	0	0	21.95	-31
790	J-249	85.17	0	0	14.15	-31
677	J-WTP1-6	86.25	0	0	15.23	-31
678	J-WTP1-5	86.25	0	0	15.23	-31
679	J-WTP1-4	86.25	0	0	15.23	-31
775	J-The Reserve 1	85.21	0	0	14.24	-31
1095	J-The Reserve 6	85.05	1	92,565	14.10	-31
952	J-Venezia 29	85.03	1	5,202	14.08	-31
621	J-193	85.00	1	1,040	14.08	-31
1097	J-The Reserve 7	85.00	1	92,565	14.09	-31
1093	J-The Reserve 5	85.01	1	3,825	14.12	-31
1091	J-The Reserve 4	85.00	1	3,825	14.13	-31
1089	J-The Reserve 3	85.01	1	25,628	14.16	-31
1087	J-The Reserve 2	85.05	1	32,895	14.22	-31
910	J-Talichet 15	85.00	1	11,444	14.42	-31
912	J-Talichet 16	85.00	1	7,283	14.43	-31
198	J-65	89.00	1	5,202	18.49	-31
173	J-64	89.00	0	0	18.53	-30
889	J-Talichet 10	85.00	1	3,121	14.69	-30
480	J-118	90.00	0	0	19.79	-30
268	J-81	90.00	1	4,162	19.79	-30
923	J-Talichet 9	85.00	1	3,121	14.84	-30
891	J-Talichet 8	85.00	1	18,727	14.84	-30
549	J-Mitchell 1	85.00	1	13,525	14.87	-30
926	J-295	85.00	1	3,121	14.89	-30
592	J-186	85.00	1	7,283	14.92	-30
728	J-Venezia 28	84.00	0	0	14.08	-30

Howey In The Hills Water System

FlexTable: Junction Table

**Active Scenario: Max Day - Ex Interconnect - WTP No. 1 Off-Line + Fire
(North)**

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
769	J-238	85.00	0	0	15.19	-30
1205	J-Venezia TH 4	84.00	1	27,540	14.23	-30
602	J-188	88.00	0	0	18.53	-30
524	J-154	95.00	0	0	25.89	-30
554	J-173	84.00	0	0	14.91	-30
722	J-Venezia 27	83.00	1	11,444	14.08	-30
718	J-Venezia 11	83.00	1	8,323	14.16	-30
133	J-33	91.00	0	0	22.23	-30
257	J-80	88.00	1	4,162	19.44	-30
176	J-75	87.00	0	0	18.56	-30
1012	J-Venezia 9	82.26	1	6,242	14.16	-29
754	J-229	82.11	0	0	14.19	-29
708	J-Venezia 8	82.00	1	2,081	14.16	-29
181	J-68	86.00	0	0	18.49	-29
1032	J-Venezia 17	81.62	1	2,081	14.18	-29
1023	J-Venezia 13	81.45	1	3,121	14.17	-29
1170	J-369	82.00	0	0	14.86	-29
552	J-172	82.00	0	0	14.88	-29
386	J-153	93.00	1	6,242	25.89	-29
388	J-159	93.00	0	0	25.89	-29
367	J-146	93.00	1	3,121	25.89	-29
452	J-41	89.00	1	5,202	22.13	-29
716	J-Venezia 16	81.00	1	4,162	14.18	-29
756	J-Whispering Hills 1	81.37	0	0	14.57	-29
999	J-Venezia 14	80.56	1	4,162	14.18	-29
757	J-231	80.71	0	0	14.59	-29
119	J-29	92.00	1	12,485	25.96	-29
116	J-28	92.00	0	0	26.08	-29
470	J-122	85.00	0	0	19.11	-29
710	J-Venezia 15	80.00	1	3,121	14.18	-28
301	J-85	87.00	0	0	21.58	-28
404	J-162	91.00	0	0	25.87	-28
1214	J-Venezia S	79.00	0	0	14.11	-28
141	J-70	85.00	0	0	20.46	-28
143	J-71	85.00	0	0	20.49	-28
457	J-125	82.31	1	10,404	18.15	-28
400	J-160	90.00	1	16,646	25.87	-28
249	J-121	83.00	1	5,202	19.11	-28
130	J-31	88.00	0	0	24.80	-27
429	J-43	84.00	1	9,364	20.85	-27
231	J-130	77.00	0	0	14.23	-27
139	J-42	84.00	0	0	21.27	-27
126	J-30	88.00	0	0	25.38	-27

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 1 Off-Line + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
264	J-117	82.00	0	0	19.79	-27
407	J-163	88.00	1	3,121	25.87	-27
150	J-74	81.00	1	2,081	18.88	-27
402	J-161	87.00	0	0	25.87	-26
426	J-168	87.00	0	0	25.87	-26
273	J-113	81.00	0	0	20.21	-26
275	J-82	81.00	0	0	20.21	-26
485	J-108	82.00	0	0	21.57	-26
219	J-Island 1	77.00	1	2,081	17.34	-26
135	J-34	84.00	1	10,404	24.60	-26
227	J-129	75.00	1	20,808	15.79	-26
259	J-119	78.00	1	11,444	19.44	-25
422	J-150	83.00	1	3,121	25.87	-25
393	J-151	83.00	1	6,242	25.87	-25
391	J-152	83.00	0	0	25.88	-25
148	J-73	77.00	0	0	19.98	-25
280	J-112	77.00	0	0	20.05	-25
1068	J-Whispering Hills 3	70.72	1	47,813	14.27	-24
112	J-72	77.00	0	0	20.65	-24
289	J-84	77.00	0	0	20.66	-24
365	J-147	81.00	1	3,121	25.88	-24
419	J-149	77.00	0	0	25.87	-22
1070	J-Whispering Hills 4	65.00	1	11,858	14.26	-22
360	J-138	76.00	1	11,444	25.87	-22
363	J-148	76.00	0	0	25.87	-22
409	J-164	75.00	1	12,485	25.87	-21
262	J-116	68.00	1	15,606	19.79	-21
217	J-124	67.00	0	0	18.85	-21
225	J-Island 3	65.00	1	9,364	17.34	-21
292	J-110	68.00	0	0	20.65	-20
313	J-103	70.00	1	19,768	23.63	-20
413	J-166	72.00	0	0	25.87	-20
327	J-101	71.00	1	13,525	24.91	-20
299	J-107	67.00	1	13,525	21.57	-20
330	J-100	70.00	1	7,283	25.27	-19
221	J-Island 2	62.00	1	4,162	17.34	-19
343	J-135	70.00	1	13,525	25.71	-19
646	J-200	70.00	0	0	25.74	-19
346	J-137	70.00	1	13,525	25.84	-19
271	J-115	64.00	1	9,364	20.19	-19
286	J-111	64.00	1	1,040	20.46	-19
310	J-105	66.00	1	14,566	22.51	-19
296	J-109	64.00	0	0	20.65	-19

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 1 Off-Line + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
519	J-169	69.00	0	0	25.87	-19
417	J-167	68.00	1	8,323	25.87	-18
411	J-165	64.00	1	5,202	25.74	-17
1248	J-WTP3-1	140.00	0	0	141.31	1
664	J-WTP1-1	81.00	0	0	83.00	1
666	J-WTP1-2	81.00	0	0	83.00	1
668	J-WTP1-3	81.00	0	0	83.00	1
30	J-WTP2-1	130.00	0	0	208.00	34
442	J-7	128.00	0	0	225.67	42
37	J-5	128.00	0	0	233.11	45
1122	J-354	140.00	0	0	249.66	47
1178	J-Lake Hills 1	140.00	0	0	252.53	49
1245	J-WTP3-2	140.00	0	0	253.19	49
31	J-2	128.00	0	0	243.46	50
33	J-4	128.00	0	0	243.51	50
35	J-3	128.00	0	0	243.79	50
1108	J-Drake Point 3	126.24	1	67,320	248.61	53
1106	J-Drake Point 2	120.00	1	67,703	248.61	56
1110	J-Lake Hills 12	101.23	0	0	244.93	62
1112	J-Thompson Grove 1	92.46	1	104,040	244.91	66
1102	J-Lake Hills 11	92.23	0	0	248.92	68
1195	J-Lake Hills 10	92.00	1	27,158	248.79	68
1119	J-Westminster 1	87.02	1	133,875	244.88	68
1183	J-Lake Hills 3	84.00	1	27,540	247.97	71
1184	J-Lake Hills 4	82.00	1	27,540	248.05	72
1177	J-Lake Hills 2	81.00	2	169,575	247.95	72
1188	J-Lake Hills 6	80.00	1	27,158	248.13	73
1192	J-Lake Hills 7	79.00	1	27,158	248.19	73
1114	J-Cypress Point 1	73.64	1	21,038	244.88	74
1196	J-Lake Hills 9	76.00	1	27,540	248.55	75
1187	J-Lake Hills 5	75.00	1	27,158	248.09	75
1104	J-Drake Point 1	75.00	1	67,703	248.64	75
1116	J-Cypress Point 2	70.02	1	21,038	244.88	76
1189	J-Lake Hills 8	71.00	1	27,158	248.35	77

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 1 Off-Line + Fire (South)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
869	J-Watermark 5	159.36	2	2,220,053	-72.21	-100
866	J-Watermark 4	145.57	1	9,180	-70.67	-94
764	J-Whispering Hills 2	146.07	0	0	-63.66	-91
1162	J-365	135.00	0	0	-71.41	-89
863	J-Watermark 3	135.17	1	8,415	-69.79	-89
860	J-Watermark 2	116.57	1	8,415	-67.81	-80
983	J-Venezia 23	105.00	1	12,485	-64.45	-73
978	J-Venezia 18	105.00	1	10,404	-63.75	-73
772	J-240	100.95	0	0	-66.88	-73
1148	J-Watermark 1	100.95	0	0	-66.88	-73
973	J-Venezia 19	102.41	1	11,444	-63.92	-72
809	J-Mission Rise 5	100.08	1	11,093	-64.24	-71
897	J-Talichet 1	104.83	0	0	-59.04	-71
848	J-Mission Rise 18	97.08	1	10,710	-65.90	-71
812	J-Mission Rise 6	98.40	1	11,093	-64.45	-70
839	J-Mission Rise 15	96.89	1	10,710	-65.76	-70
1053	J-Venezia 2	100.09	0	0	-62.01	-70
815	J-Mission Rise 7	97.32	1	11,093	-64.66	-70
773	J-Venezia 1	100.12	0	0	-61.83	-70
842	J-Mission Rise 16	96.14	1	10,710	-65.79	-70
968	J-Venezia 20	97.78	1	11,444	-64.10	-70
239	J-132	95.00	0	0	-66.66	-70
235	J-131	95.00	0	0	-66.35	-70
213	J-Venezia 3	99.00	0	0	-62.33	-70
1133	J-Venezia 24	95.33	1	16,646	-64.86	-69
957	J-Venezia 25	95.00	1	10,404	-65.08	-69
702	J-Venezia 4	97.00	1	32,513	-62.62	-69
355	J-140	152.00	0	0	-7.49	-69
827	J-Mission Rise 11	94.06	1	6,503	-65.43	-69
824	J-Mission Rise 10	94.09	1	6,503	-65.37	-69
818	J-Mission Rise 8	94.12	1	11,093	-65.11	-69
44	J-8	152.00	1	1,040	-7.09	-69
806	J-Mission Rise 4	94.43	1	11,093	-64.02	-69
895	J-Talichet 2	99.21	0	0	-59.04	-68
724	J-220	90.23	0	0	-67.68	-68
1100	J-Golden Hills 1	92.58	1	232,178	-65.14	-68
1168	J-Venezia TH 1	95.00	0	0	-62.44	-68
963	J-Venezia 21	92.72	1	13,525	-64.26	-68
245	J-134	90.00	1	10,404	-66.67	-68
241	J-133	90.00	0	0	-66.67	-68
1166	J-Venezia TH 2	94.00	1	6,885	-62.57	-68
704	J-Venezia 5	93.00	0	0	-63.55	-68
881	J-Talichet II 1	94.95	1	5,738	-61.51	-68

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 1 Off-Line + Fire (South)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
845	J-Mission Rise 17	90.35	1	10,710	-65.82	-68
1152	J-Mission Rise 22	89.96	0	0	-66.01	-67
836	J-Mission Rise 14	90.07	1	6,503	-65.68	-67
776	J-Cedar Creek 1	91.69	1	65,408	-63.43	-67
730	J-Venezia 30	90.81	0	0	-64.29	-67
720	J-Venezia 26	90.00	1	5,202	-65.09	-67
830	J-Mission Rise 12	89.37	1	6,503	-65.48	-67
1138	J-Venezia 32	90.74	1	4,162	-63.96	-67
934	J-Talichet 6	95.60	1	3,121	-59.04	-67
851	J-Mission Rise 19	88.36	1	10,710	-65.93	-67
1035	J-Venezia 34	90.25	1	2,081	-63.96	-67
930	J-Talichet 3	95.16	1	6,242	-59.04	-67
932	J-Talichet 4	95.07	1	3,121	-59.04	-67
833	J-Mission Rise 13	88.53	1	6,503	-65.57	-67
624	J-194	88.00	1	3,121	-65.96	-67
1142	J-Mission Rise 1	90.47	0	0	-63.41	-67
374	J-141	146.00	0	0	-7.81	-67
803	J-Mission Rise 3	89.89	1	10,710	-63.79	-66
1203	J-Venezia TH 3	91.00	1	8,798	-62.59	-66
879	J-Talichet II 2	92.00	1	2,295	-61.57	-66
800	J-Mission Rise 2	89.97	1	10,710	-63.48	-66
732	J-Venezia 31	89.16	1	6,242	-63.96	-66
621	J-193	85.00	1	1,040	-67.68	-66
1004	J-Venezia 12	88.68	1	4,162	-63.92	-66
876	J-The Reserve 14	89.84	0	0	-62.67	-66
821	J-Mission Rise 9	87.13	1	6,503	-65.32	-66
1129	J-Venezia 10	88.52	1	11,444	-63.92	-66
1084	J-The Reserve 13	89.69	2	126,225	-62.65	-66
952	J-Venezia 29	85.03	1	5,202	-67.27	-66
1064	J-329	88.47	0	0	-63.78	-66
1081	J-The Reserve 12	89.60	1	2,295	-62.58	-66
1078	J-The Reserve 11	89.47	1	2,295	-62.49	-66
883	J-Talichet 14	90.88	1	3,121	-60.87	-66
1075	J-The Reserve 10	89.34	2	132,983	-62.39	-66
1157	J-330	87.56	0	0	-64.06	-66
857	J-Mission Rise 21	85.31	1	10,710	-65.97	-65
728	J-Venezia 28	84.00	0	0	-67.27	-65
873	J-The Reserve 8	86.99	0	0	-64.24	-65
1043	J-324	95.01	0	0	-56.20	-65
1041	J-323	94.88	0	0	-56.20	-65
738	J-Venezia 33	87.00	1	6,242	-63.96	-65
854	J-Mission Rise 20	85.00	1	10,710	-65.95	-65
1059	J-Talichet 13	90.07	1	1,040	-60.76	-65

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 1 Off-Line + Fire (South)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
762	J-234	88.95	0	0	-61.73	-65
994	J-Venezia 22	86.52	1	4,162	-64.09	-65
351	J-94	144.00	0	0	-6.59	-65
1017	J-Venezia 6	86.57	0	0	-63.89	-65
722	J-Venezia 27	83.00	1	11,444	-67.27	-65
712	J-215	86.31	0	0	-63.81	-65
706	J-Venezia 7	86.00	0	0	-63.92	-65
936	J-Talichet 5	90.78	1	5,202	-59.04	-65
885	J-Talichet 12	88.74	1	2,081	-60.70	-65
793	J-Venezia 35	85.52	0	0	-63.81	-65
797	J-251	85.79	0	0	-63.48	-65
1097	J-The Reserve 7	85.00	1	92,565	-63.84	-64
539	J-142	141.00	0	0	-7.82	-64
790	J-249	85.17	0	0	-63.60	-64
1095	J-The Reserve 6	85.05	1	92,565	-63.60	-64
893	J-Talichet 7	89.60	1	12,485	-59.04	-64
1093	J-The Reserve 5	85.01	1	3,825	-63.47	-64
556	J-174	91.00	0	0	-57.42	-64
1091	J-The Reserve 4	85.00	1	3,825	-63.34	-64
914	J-Talichet 17	87.41	1	5,202	-60.75	-64
1089	J-The Reserve 3	85.01	1	25,628	-63.02	-64
775	J-The Reserve 1	85.21	0	0	-62.42	-64
1087	J-The Reserve 2	85.05	1	32,895	-62.53	-64
585	J-185	90.00	0	0	-57.33	-64
718	J-Venezia 11	83.00	1	8,323	-63.92	-64
1205	J-Venezia TH 4	84.00	1	27,540	-62.60	-63
887	J-Talichet 11	86.01	1	31,860	-60.44	-63
436	J-45	90.00	0	0	-56.19	-63
1012	J-Venezia 9	82.26	1	6,242	-63.92	-63
708	J-Venezia 8	82.00	1	2,081	-63.91	-63
754	J-229	82.11	0	0	-63.76	-63
910	J-Talichet 15	85.00	1	11,444	-60.83	-63
912	J-Talichet 16	85.00	1	7,283	-60.80	-63
1032	J-Venezia 17	81.62	1	2,081	-63.84	-63
759	J-The Reserve 9	86.74	1	8,798	-58.68	-63
1023	J-Venezia 13	81.45	1	3,121	-63.89	-63
432	J-44	90.00	0	0	-55.04	-63
716	J-Venezia 16	81.00	1	4,162	-63.84	-63
169	J-63	104.00	1	12,485	-40.70	-63
889	J-Talichet 10	85.00	1	3,121	-59.65	-63
999	J-Venezia 14	80.56	1	4,162	-63.86	-62
891	J-Talichet 8	85.00	1	18,727	-59.05	-62
923	J-Talichet 9	85.00	1	3,121	-59.05	-62

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 1 Off-Line + Fire (South)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
710	J-Venezia 15	80.00	1	3,121	-63.84	-62
926	J-295	85.00	1	3,121	-58.77	-62
549	J-Mitchell 1	85.00	1	13,525	-58.68	-62
592	J-186	85.00	1	7,283	-58.63	-62
186	J-49	95.08	1	1,040	-48.52	-62
677	J-WTP1-6	86.25	0	0	-57.33	-62
678	J-WTP1-5	86.25	0	0	-57.33	-62
679	J-WTP1-4	86.25	0	0	-57.33	-62
616	J-191	104.64	1	10,404	-38.91	-62
612	J-190	104.74	0	0	-38.76	-62
1214	J-Venezia S	79.00	0	0	-64.06	-62
786	J-248	102.22	0	0	-40.54	-62
554	J-173	84.00	0	0	-58.64	-62
165	J-60	102.00	1	11,444	-40.63	-62
167	J-61	102.00	0	0	-40.63	-62
769	J-238	85.00	0	0	-57.52	-62
756	J-Whispering Hills 1	81.37	0	0	-60.82	-62
566	J-62	101.00	0	0	-40.63	-61
203	J-51	100.00	1	2,081	-41.61	-61
201	J-52	100.00	0	0	-41.55	-61
757	J-231	80.71	0	0	-60.72	-61
1170	J-369	82.00	0	0	-58.68	-61
552	J-172	82.00	0	0	-58.66	-61
231	J-130	77.00	0	0	-63.49	-61
211	J-56	100.22	0	0	-40.16	-61
156	J-54	100.06	1	2,081	-40.28	-61
215	J-77	102.00	0	0	-38.17	-61
192	J-50	96.50	1	1,040	-43.06	-60
635	J-197	100.00	0	0	-38.21	-60
158	J-53	97.00	1	13,525	-40.55	-60
688	J-209	97.00	1	5,202	-40.38	-59
640	J-198	131.95	0	0	-4.70	-59
154	J-58	96.00	1	1,040	-40.52	-59
629	J-196	96.00	1	13,525	-40.48	-59
607	J-189	95.00	0	0	-40.50	-59
315	J-104	117.00	0	0	-18.45	-59
490	J-102	122.00	0	0	-13.36	-59
194	J-66	93.00	1	3,121	-41.14	-58
322	J-88	120.00	0	0	-13.90	-58
325	J-89	120.00	0	0	-13.69	-58
319	J-87	115.00	0	0	-18.45	-58
495	J-90	120.00	0	0	-13.07	-58
465	J-78	95.00	0	0	-37.83	-57

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 1 Off-Line + Fire (South)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
576	J-183	118.00	0	0	-14.79	-57
1068	J-Whispering Hills 3	70.72	1	47,813	-62.06	-57
338	J-93	128.00	0	0	-4.07	-57
255	J-79	94.00	1	4,162	-37.77	-57
152	J-76	91.00	1	8,323	-40.27	-57
179	J-67	90.00	0	0	-41.10	-57
597	J-187	90.00	0	0	-41.02	-57
544	J-170	123.00	0	0	-7.92	-57
251	J-123	93.00	0	0	-37.76	-57
110	J-40	116.00	1	11,444	-14.24	-56
198	J-65	89.00	1	5,202	-41.02	-56
108	J-39	116.00	0	0	-13.96	-56
173	J-64	89.00	0	0	-40.77	-56
306	J-106	106.00	0	0	-23.24	-56
512	J-96	121.00	0	0	-7.99	-56
602	J-188	88.00	0	0	-40.76	-56
227	J-129	75.00	1	20,808	-53.72	-56
502	J-98	122.00	0	0	-6.34	-56
643	J-199	119.72	0	0	-8.01	-55
176	J-75	87.00	0	0	-40.71	-55
475	J-120	91.00	0	0	-36.32	-55
181	J-68	86.00	0	0	-41.14	-55
1070	J-Whispering Hills 4	65.00	1	11,858	-62.07	-55
340	J-97	119.00	1	14,566	-8.02	-55
304	J-86	103.00	1	3,121	-23.24	-55
348	J-95	118.00	1	17,687	-7.97	-55
377	J-157	117.00	1	12,485	-7.95	-54
372	J-143	117.00	1	4,162	-7.93	-54
480	J-118	90.00	0	0	-34.86	-54
268	J-81	90.00	1	4,162	-34.86	-54
457	J-125	82.31	1	10,404	-42.02	-54
257	J-80	88.00	1	4,162	-36.32	-54
104	J-92	121.00	0	0	-1.88	-53
219	J-Island 1	77.00	1	2,081	-45.79	-53
470	J-122	85.00	0	0	-37.75	-53
102	J-38	121.00	0	0	-0.61	-53
332	J-99	113.00	1	10,404	-8.52	-53
114	J-27	129.00	1	15,606	7.64	-53
249	J-121	83.00	1	5,202	-37.75	-52
334	J-91	113.00	1	4,162	-7.50	-52
150	J-74	81.00	1	2,081	-39.26	-52
106	J-37	112.00	1	5,202	-7.47	-52
581	J-184	93.00	0	0	-25.70	-51

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 1 Off-Line + Fire (South)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
100	J-26	128.00	1	3,121	9.58	-51
141	J-70	85.00	0	0	-32.81	-51
143	J-71	85.00	0	0	-32.66	-51
264	J-117	82.00	0	0	-34.86	-51
133	J-33	91.00	0	0	-25.14	-50
447	J-36	105.00	0	0	-10.26	-50
357	J-139	107.00	1	15,606	-7.97	-50
429	J-43	84.00	1	9,364	-30.88	-50
121	J-32	104.00	1	20,808	-10.85	-50
123	J-35	104.00	1	12,485	-10.80	-50
452	J-41	89.00	1	5,202	-25.58	-50
301	J-85	87.00	0	0	-27.35	-49
259	J-119	78.00	1	11,444	-36.32	-49
273	J-113	81.00	0	0	-33.23	-49
275	J-82	81.00	0	0	-33.23	-49
568	J-Mission Inn 5	154.00	0	0	40.02	-49
139	J-42	84.00	0	0	-29.29	-49
68	J-Mission Inn 6	154.00	1	16,646	40.78	-49
529	J-156	104.00	0	0	-7.99	-48
534	J-144	104.00	0	0	-7.97	-48
148	J-73	77.00	0	0	-34.49	-48
96	J-25	130.00	0	0	18.58	-48
280	J-112	77.00	0	0	-34.20	-48
369	J-145	103.00	1	3,121	-7.99	-48
78	J-Mission Inn 4	150.00	0	0	39.11	-48
225	J-Island 3	65.00	1	9,364	-45.80	-48
66	J-Mission Inn 10	152.00	0	0	41.29	-48
507	J-136	102.00	0	0	-8.31	-48
86	J-Mission Inn 2	149.00	1	15,606	38.98	-48
382	J-158	102.00	1	12,485	-8.00	-48
82	J-Mission Inn 3	149.00	0	0	39.08	-48
485	J-108	82.00	0	0	-27.36	-47
74	J-Mission Inn 9	150.00	1	4,162	40.78	-47
112	J-72	77.00	0	0	-31.61	-47
289	J-84	77.00	0	0	-31.49	-47
94	J-Mission Inn 15	130.00	0	0	21.55	-47
379	J-155	100.00	1	8,323	-8.00	-47
48	J-Mission Inn 1	148.00	0	0	40.17	-47
221	J-Island 2	62.00	1	4,162	-45.80	-47
70	J-Mission Inn 7	148.00	1	8,323	40.78	-46
90	J-Mission Inn 14	131.00	0	0	23.92	-46
92	J-23	130.00	0	0	23.74	-46
217	J-124	67.00	0	0	-38.91	-46

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 1 Off-Line + Fire (South)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
72	J-Mission Inn 8	146.00	1	4,162	40.78	-46
46	J-9	151.00	0	0	46.04	-45
524	J-154	95.00	0	0	-8.05	-45
262	J-116	68.00	1	15,606	-34.86	-45
130	J-31	88.00	0	0	-14.33	-44
119	J-29	92.00	1	12,485	-9.57	-44
116	J-28	92.00	0	0	-9.09	-44
386	J-153	93.00	1	6,242	-8.06	-44
388	J-159	93.00	0	0	-8.05	-44
367	J-146	93.00	1	3,121	-8.05	-44
126	J-30	88.00	0	0	-11.94	-43
292	J-110	68.00	0	0	-31.50	-43
404	J-162	91.00	0	0	-8.09	-43
135	J-34	84.00	1	10,404	-14.85	-43
1217	J-386	141.00	0	0	42.87	-42
400	J-160	90.00	1	16,646	-8.09	-42
271	J-115	64.00	1	9,364	-33.28	-42
286	J-111	64.00	1	1,040	-32.29	-42
407	J-163	88.00	1	3,121	-8.09	-42
296	J-109	64.00	0	0	-31.50	-41
426	J-168	87.00	0	0	-8.09	-41
402	J-161	87.00	0	0	-8.09	-41
41	J-6	152.00	0	0	56.98	-41
299	J-107	67.00	1	13,525	-27.36	-41
50	J-Mission Inn 11	134.00	0	0	42.23	-40
422	J-150	83.00	1	3,121	-8.09	-39
393	J-151	83.00	1	6,242	-8.09	-39
391	J-152	83.00	0	0	-8.09	-39
310	J-105	66.00	1	14,566	-23.23	-39
365	J-147	81.00	1	3,121	-8.09	-39
313	J-103	70.00	1	19,768	-18.45	-38
419	J-149	77.00	0	0	-8.11	-37
360	J-138	76.00	1	11,444	-8.12	-36
363	J-148	76.00	0	0	-8.11	-36
327	J-101	71.00	1	13,525	-12.91	-36
409	J-164	75.00	1	12,485	-8.10	-36
52	J-Mission Inn 12	125.00	0	0	42.21	-36
54	J-Mission Inn 13	124.00	1	37,454	42.21	-35
330	J-100	70.00	1	7,283	-11.23	-35
413	J-166	72.00	0	0	-8.10	-35
343	J-135	70.00	1	13,525	-9.02	-34
646	J-200	70.00	0	0	-8.86	-34
346	J-137	70.00	1	13,525	-8.33	-34

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 1 Off-Line + Fire (South)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
519	J-169	69.00	0	0	-8.10	-33
417	J-167	68.00	1	8,323	-8.10	-33
411	J-165	64.00	1	5,202	-8.23	-31
1248	J-WTP3-1	140.00	0	0	141.31	1
664	J-WTP1-1	81.00	0	0	83.00	1
666	J-WTP1-2	81.00	0	0	83.00	1
668	J-WTP1-3	81.00	0	0	83.00	1
30	J-WTP2-1	130.00	0	0	208.00	34
442	J-7	128.00	0	0	225.67	42
37	J-5	128.00	0	0	233.11	45
1122	J-354	140.00	0	0	249.66	47
1178	J-Lake Hills 1	140.00	0	0	252.54	49
1245	J-WTP3-2	140.00	0	0	253.19	49
31	J-2	128.00	0	0	243.46	50
33	J-4	128.00	0	0	243.51	50
35	J-3	128.00	0	0	243.79	50
1108	J-Drake Point 3	126.24	1	67,320	248.61	53
1106	J-Drake Point 2	120.00	1	67,703	248.61	56
1110	J-Lake Hills 12	101.23	0	0	244.93	62
1112	J-Thompson Grove 1	92.46	1	104,040	244.91	66
1102	J-Lake Hills 11	92.23	0	0	248.92	68
1195	J-Lake Hills 10	92.00	1	27,158	248.79	68
1119	J-Westminster 1	87.02	1	133,875	244.88	68
1183	J-Lake Hills 3	84.00	1	27,540	247.97	71
1184	J-Lake Hills 4	82.00	1	27,540	248.05	72
1177	J-Lake Hills 2	81.00	2	169,575	247.95	72
1188	J-Lake Hills 6	80.00	1	27,158	248.13	73
1192	J-Lake Hills 7	79.00	1	27,158	248.19	73
1114	J-Cypress Point 1	73.64	1	21,038	244.88	74
1196	J-Lake Hills 9	76.00	1	27,540	248.55	75
1187	J-Lake Hills 5	75.00	1	27,158	248.09	75
1104	J-Drake Point 1	75.00	1	67,703	248.64	75
1116	J-Cypress Point 2	70.02	1	21,038	244.88	76
1189	J-Lake Hills 8	71.00	1	27,158	248.35	77

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 1 Off-Line + Fire South 1000

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
869	J-Watermark 5	159.36	2	1,500,053	61.04	-43
866	J-Watermark 4	145.57	1	9,180	61.77	-36
764	J-Whispering Hills 2	146.07	0	0	65.41	-35
1162	J-365	135.00	0	0	61.44	-32
863	J-Watermark 3	135.17	1	8,415	62.19	-32
860	J-Watermark 2	116.57	1	8,415	63.14	-23
355	J-140	152.00	0	0	103.44	-21
44	J-8	152.00	1	1,040	103.74	-21
374	J-141	146.00	0	0	103.21	-19
983	J-Venezia 23	105.00	1	12,485	64.95	-17
351	J-94	144.00	0	0	104.10	-17
978	J-Venezia 18	105.00	1	10,404	65.33	-17
539	J-142	141.00	0	0	103.20	-16
772	J-240	100.95	0	0	63.58	-16
1148	J-Watermark 1	100.95	0	0	63.58	-16
973	J-Venezia 19	102.41	1	11,444	65.23	-16
897	J-Talichet 1	104.83	0	0	68.31	-16
809	J-Mission Rise 5	100.08	1	11,093	64.81	-15
812	J-Mission Rise 6	98.40	1	11,093	64.67	-15
1053	J-Venezia 2	100.09	0	0	66.37	-15
773	J-Venezia 1	100.12	0	0	66.48	-15
848	J-Mission Rise 18	97.08	1	10,710	64.02	-14
839	J-Mission Rise 15	96.89	1	10,710	64.04	-14
213	J-Venezia 3	99.00	0	0	66.17	-14
815	J-Mission Rise 7	97.32	1	11,093	64.54	-14
968	J-Venezia 20	97.78	1	11,444	65.13	-14
842	J-Mission Rise 16	96.14	1	10,710	64.04	-14
239	J-132	95.00	0	0	63.82	-13
235	J-131	95.00	0	0	63.98	-13
702	J-Venezia 4	97.00	1	32,513	65.99	-13
895	J-Talichet 2	99.21	0	0	68.31	-13
1133	J-Venezia 24	95.33	1	16,646	64.73	-13
957	J-Venezia 25	95.00	1	10,404	64.62	-13
824	J-Mission Rise 10	94.09	1	6,503	64.16	-13
827	J-Mission Rise 11	94.06	1	6,503	64.14	-13
818	J-Mission Rise 8	94.12	1	11,093	64.25	-13
806	J-Mission Rise 4	94.43	1	11,093	64.95	-13
1168	J-Venezia TH 1	95.00	0	0	66.10	-13
1100	J-Golden Hills 1	92.58	1	232,178	64.22	-12
881	J-Talichet II 1	94.95	1	5,738	66.62	-12
1166	J-Venezia TH 2	94.00	1	6,885	66.01	-12
963	J-Venezia 21	92.72	1	13,525	65.04	-12
704	J-Venezia 5	93.00	0	0	65.45	-12

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 1 Off-Line + Fire South 1000

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
934	J-Talichet 6	95.60	1	3,121	68.31	-12
724	J-220	90.23	0	0	63.30	-12
930	J-Talichet 3	95.16	1	6,242	68.31	-12
932	J-Talichet 4	95.07	1	3,121	68.31	-12
640	J-198	131.95	0	0	105.50	-11
776	J-Cedar Creek 1	91.69	1	65,408	65.33	-11
845	J-Mission Rise 17	90.35	1	10,710	64.03	-11
245	J-134	90.00	1	10,404	63.82	-11
241	J-133	90.00	0	0	63.82	-11
836	J-Mission Rise 14	90.07	1	6,503	64.07	-11
1152	J-Mission Rise 22	89.96	0	0	64.00	-11
730	J-Venezia 30	90.81	0	0	65.02	-11
1138	J-Venezia 32	90.74	1	4,162	65.19	-11
879	J-Talichet II 2	92.00	1	2,295	66.58	-11
720	J-Venezia 26	90.00	1	5,202	64.61	-11
830	J-Mission Rise 12	89.37	1	6,503	64.12	-11
1142	J-Mission Rise 1	90.47	0	0	65.36	-11
1035	J-Venezia 34	90.25	1	2,081	65.19	-11
1203	J-Venezia TH 3	91.00	1	8,798	65.99	-11
803	J-Mission Rise 3	89.89	1	10,710	65.11	-11
1043	J-324	95.01	0	0	70.23	-11
800	J-Mission Rise 2	89.97	1	10,710	65.31	-11
1041	J-323	94.88	0	0	70.23	-11
833	J-Mission Rise 13	88.53	1	6,503	64.10	-11
851	J-Mission Rise 19	88.36	1	10,710	64.01	-11
732	J-Venezia 31	89.16	1	6,242	65.19	-10
876	J-The Reserve 14	89.84	0	0	65.92	-10
883	J-Talichet 14	90.88	1	3,121	67.04	-10
624	J-194	88.00	1	3,121	64.19	-10
1084	J-The Reserve 13	89.69	2	126,225	65.93	-10
1081	J-The Reserve 12	89.60	1	2,295	65.96	-10
1078	J-The Reserve 11	89.47	1	2,295	66.00	-10
1004	J-Venezia 12	88.68	1	4,162	65.25	-10
169	J-63	104.00	1	12,485	80.62	-10
1075	J-The Reserve 10	89.34	2	132,983	66.05	-10
1129	J-Venezia 10	88.52	1	11,444	65.25	-10
1064	J-329	88.47	0	0	65.27	-10
1059	J-Talichet 13	90.07	1	1,040	67.11	-10
821	J-Mission Rise 9	87.13	1	6,503	64.18	-10
616	J-191	104.64	1	10,404	81.80	-10
612	J-190	104.74	0	0	81.90	-10
490	J-102	122.00	0	0	99.48	-10
762	J-234	88.95	0	0	66.47	-10

Howey In The Hills Water System

FlexTable: Junction Table

**Active Scenario: Max Day - Ex Interconnect - WTP No. 1 Off-Line + Fire
South 1000**

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
936	J-Talichet 5	90.78	1	5,202	68.31	-10
1157	J-330	87.56	0	0	65.10	-10
338	J-93	128.00	0	0	105.96	-10
873	J-The Reserve 8	86.99	0	0	64.99	-10
738	J-Venezia 33	87.00	1	6,242	65.19	-9
621	J-193	85.00	1	1,040	63.30	-9
556	J-174	91.00	0	0	69.41	-9
885	J-Talichet 12	88.74	1	2,081	67.15	-9
952	J-Venezia 29	85.03	1	5,202	63.51	-9
786	J-248	102.22	0	0	80.71	-9
994	J-Venezia 22	86.52	1	4,162	65.15	-9
165	J-60	102.00	1	11,444	80.66	-9
167	J-61	102.00	0	0	80.66	-9
857	J-Mission Rise 21	85.31	1	10,710	64.01	-9
1017	J-Venezia 6	86.57	0	0	65.26	-9
893	J-Talichet 7	89.60	1	12,485	68.30	-9
315	J-104	117.00	0	0	95.93	-9
854	J-Mission Rise 20	85.00	1	10,710	64.01	-9
712	J-215	86.31	0	0	65.33	-9
322	J-88	120.00	0	0	99.13	-9
706	J-Venezia 7	86.00	0	0	65.25	-9
325	J-89	120.00	0	0	99.28	-9
585	J-185	90.00	0	0	69.47	-9
728	J-Venezia 28	84.00	0	0	63.51	-9
566	J-62	101.00	0	0	80.66	-9
797	J-251	85.79	0	0	65.45	-9
914	J-Talichet 17	87.41	1	5,202	67.11	-9
495	J-90	120.00	0	0	99.71	-9
793	J-Venezia 35	85.52	0	0	65.27	-9
203	J-51	100.00	1	2,081	80.02	-9
201	J-52	100.00	0	0	80.06	-9
544	J-170	123.00	0	0	103.12	-9
1097	J-The Reserve 7	85.00	1	92,565	65.19	-9
790	J-249	85.17	0	0	65.38	-9
436	J-45	90.00	0	0	70.24	-9
1095	J-The Reserve 6	85.05	1	92,565	65.31	-9
186	J-49	95.08	1	1,040	75.39	-9
215	J-77	102.00	0	0	82.31	-9
1093	J-The Reserve 5	85.01	1	3,825	65.40	-8
1091	J-The Reserve 4	85.00	1	3,825	65.48	-8
576	J-183	118.00	0	0	98.50	-8
722	J-Venezia 27	83.00	1	11,444	63.51	-8
1089	J-The Reserve 3	85.01	1	25,628	65.67	-8

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 1 Off-Line + Fire South 1000

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
211	J-56	100.22	0	0	80.97	-8
156	J-54	100.06	1	2,081	80.89	-8
775	J-The Reserve 1	85.21	0	0	66.06	-8
319	J-87	115.00	0	0	95.93	-8
1087	J-The Reserve 2	85.05	1	32,895	65.98	-8
432	J-44	90.00	0	0	71.02	-8
887	J-Talichet 11	86.01	1	31,860	67.33	-8
759	J-The Reserve 9	86.74	1	8,798	68.52	-8
1205	J-Venezia TH 4	84.00	1	27,540	65.98	-8
910	J-Talichet 15	85.00	1	11,444	67.06	-8
912	J-Talichet 16	85.00	1	7,283	67.08	-8
512	J-96	121.00	0	0	103.09	-8
718	J-Venezia 11	83.00	1	8,323	65.25	-8
635	J-197	100.00	0	0	82.29	-8
502	J-98	122.00	0	0	104.30	-8
192	J-50	96.50	1	1,040	79.05	-8
889	J-Talichet 10	85.00	1	3,121	67.87	-7
110	J-40	116.00	1	11,444	98.90	-7
1012	J-Venezia 9	82.26	1	6,242	65.25	-7
108	J-39	116.00	0	0	99.10	-7
677	J-WTP1-6	86.25	0	0	69.47	-7
678	J-WTP1-5	86.25	0	0	69.47	-7
679	J-WTP1-4	86.25	0	0	69.47	-7
754	J-229	82.11	0	0	65.36	-7
708	J-Venezia 8	82.00	1	2,081	65.25	-7
923	J-Talichet 9	85.00	1	3,121	68.30	-7
891	J-Talichet 8	85.00	1	18,727	68.30	-7
643	J-199	119.72	0	0	103.08	-7
568	J-Mission Inn 5	154.00	0	0	137.45	-7
926	J-295	85.00	1	3,121	68.48	-7
549	J-Mitchell 1	85.00	1	13,525	68.52	-7
592	J-186	85.00	1	7,283	68.58	-7
1032	J-Venezia 17	81.62	1	2,081	65.31	-7
158	J-53	97.00	1	13,525	80.71	-7
688	J-209	97.00	1	5,202	80.82	-7
1023	J-Venezia 13	81.45	1	3,121	65.27	-7
68	J-Mission Inn 6	154.00	1	16,646	137.98	-7
340	J-97	119.00	1	14,566	103.08	-7
716	J-Venezia 16	81.00	1	4,162	65.31	-7
769	J-238	85.00	0	0	69.34	-7
554	J-173	84.00	0	0	68.56	-7
154	J-58	96.00	1	1,040	80.73	-7
999	J-Venezia 14	80.56	1	4,162	65.29	-7

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 1 Off-Line + Fire South 1000

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
629	J-196	96.00	1	13,525	80.75	-7
348	J-95	118.00	1	17,687	103.09	-6
710	J-Venezia 15	80.00	1	3,121	65.31	-6
114	J-27	129.00	1	15,606	114.38	-6
607	J-189	95.00	0	0	80.74	-6
756	J-Whispering Hills 1	81.37	0	0	67.18	-6
377	J-157	117.00	1	12,485	103.09	-6
1214	J-Venezia S	79.00	0	0	65.10	-6
372	J-143	117.00	1	4,162	103.12	-6
66	J-Mission Inn 10	152.00	0	0	138.35	-6
1170	J-369	82.00	0	0	68.52	-6
552	J-172	82.00	0	0	68.54	-6
757	J-231	80.71	0	0	67.25	-6
104	J-92	121.00	0	0	107.57	-6
306	J-106	106.00	0	0	92.62	-6
78	J-Mission Inn 4	150.00	0	0	136.81	-6
194	J-66	93.00	1	3,121	80.34	-5
102	J-38	121.00	0	0	108.49	-5
465	J-78	95.00	0	0	82.54	-5
86	J-Mission Inn 2	149.00	1	15,606	136.72	-5
100	J-26	128.00	1	3,121	115.76	-5
82	J-Mission Inn 3	149.00	0	0	136.79	-5
74	J-Mission Inn 9	150.00	1	4,162	137.98	-5
231	J-130	77.00	0	0	65.53	-5
255	J-79	94.00	1	4,162	82.58	-5
48	J-Mission Inn 1	148.00	0	0	137.59	-5
251	J-123	93.00	0	0	82.59	-5
304	J-86	103.00	1	3,121	92.62	-4
332	J-99	113.00	1	10,404	102.76	-4
152	J-76	91.00	1	8,323	80.92	-4
70	J-Mission Inn 7	148.00	1	8,323	137.98	-4
179	J-67	90.00	0	0	80.38	-4
597	J-187	90.00	0	0	80.42	-4
334	J-91	113.00	1	4,162	103.56	-4
46	J-9	151.00	0	0	141.80	-4
198	J-65	89.00	1	5,202	80.42	-4
173	J-64	89.00	0	0	80.58	-4
106	J-37	112.00	1	5,202	103.66	-4
72	J-Mission Inn 8	146.00	1	4,162	137.98	-3
96	J-25	130.00	0	0	122.18	-3
475	J-120	91.00	0	0	83.59	-3
602	J-188	88.00	0	0	80.59	-3
176	J-75	87.00	0	0	80.63	-3

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 1 Off-Line + Fire South 1000

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
94	J-Mission Inn 15	130.00	0	0	124.30	-2
181	J-68	86.00	0	0	80.35	-2
480	J-118	90.00	0	0	84.60	-2
268	J-81	90.00	1	4,162	84.60	-2
90	J-Mission Inn 14	131.00	0	0	125.99	-2
257	J-80	88.00	1	4,162	83.59	-2
1068	J-Whispering Hills 3	70.72	1	47,813	66.31	-2
92	J-23	130.00	0	0	125.86	-2
357	J-139	107.00	1	15,606	103.09	-2
447	J-36	105.00	0	0	101.70	-1
227	J-129	75.00	1	20,808	71.82	-1
121	J-32	104.00	1	20,808	101.29	-1
123	J-35	104.00	1	12,485	101.32	-1
457	J-125	82.31	1	10,404	79.67	-1
470	J-122	85.00	0	0	82.60	-1
41	J-6	152.00	0	0	149.66	-1
581	J-184	93.00	0	0	90.94	-1
1217	J-386	141.00	0	0	139.49	-1
529	J-156	104.00	0	0	103.07	0
534	J-144	104.00	0	0	103.09	0
249	J-121	83.00	1	5,202	82.60	0
369	J-145	103.00	1	3,121	103.07	0
219	J-Island 1	77.00	1	2,081	77.12	0
133	J-33	91.00	0	0	91.40	0
150	J-74	81.00	1	2,081	81.63	0
507	J-136	102.00	0	0	102.88	0
382	J-158	102.00	1	12,485	103.06	0
141	J-70	85.00	0	0	86.12	0
143	J-71	85.00	0	0	86.22	1
1070	J-Whispering Hills 4	65.00	1	11,858	66.31	1
1248	J-WTP3-1	140.00	0	0	141.47	1
664	J-WTP1-1	81.00	0	0	83.00	1
666	J-WTP1-2	81.00	0	0	83.00	1
668	J-WTP1-3	81.00	0	0	83.00	1
452	J-41	89.00	1	5,202	91.10	1
264	J-117	82.00	0	0	84.60	1
301	J-85	87.00	0	0	89.80	1
379	J-155	100.00	1	8,323	103.06	1
429	J-43	84.00	1	9,364	87.42	1
139	J-42	84.00	0	0	88.54	2
273	J-113	81.00	0	0	85.74	2
275	J-82	81.00	0	0	85.74	2
50	J-Mission Inn 11	134.00	0	0	139.02	2

Howey In The Hills Water System

FlexTable: Junction Table

**Active Scenario: Max Day - Ex Interconnect - WTP No. 1 Off-Line + Fire
South 1000**

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
259	J-119	78.00	1	11,444	83.59	2
485	J-108	82.00	0	0	89.79	3
148	J-73	77.00	0	0	84.91	3
524	J-154	95.00	0	0	103.02	3
280	J-112	77.00	0	0	85.11	4
112	J-72	77.00	0	0	86.90	4
289	J-84	77.00	0	0	86.97	4
386	J-153	93.00	1	6,242	103.02	4
388	J-159	93.00	0	0	103.02	4
367	J-146	93.00	1	3,121	103.02	4
119	J-29	92.00	1	12,485	102.20	4
116	J-28	92.00	0	0	102.54	5
130	J-31	88.00	0	0	98.88	5
404	J-162	91.00	0	0	102.99	5
225	J-Island 3	65.00	1	9,364	77.11	5
126	J-30	88.00	0	0	100.55	5
400	J-160	90.00	1	16,646	102.99	6
52	J-Mission Inn 12	125.00	0	0	139.01	6
135	J-34	84.00	1	10,404	98.49	6
217	J-124	67.00	0	0	81.80	6
407	J-163	88.00	1	3,121	102.99	6
54	J-Mission Inn 13	124.00	1	37,454	139.00	6
221	J-Island 2	62.00	1	4,162	77.11	7
426	J-168	87.00	0	0	102.99	7
402	J-161	87.00	0	0	102.99	7
262	J-116	68.00	1	15,606	84.60	7
292	J-110	68.00	0	0	86.96	8
422	J-150	83.00	1	3,121	102.99	9
393	J-151	83.00	1	6,242	102.99	9
391	J-152	83.00	0	0	102.99	9
271	J-115	64.00	1	9,364	85.71	9
365	J-147	81.00	1	3,121	102.99	10
286	J-111	64.00	1	1,040	86.41	10
299	J-107	67.00	1	13,525	89.79	10
296	J-109	64.00	0	0	86.96	10
313	J-103	70.00	1	19,768	95.93	11
419	J-149	77.00	0	0	102.98	11
310	J-105	66.00	1	14,566	92.63	12
360	J-138	76.00	1	11,444	102.98	12
363	J-148	76.00	0	0	102.98	12
409	J-164	75.00	1	12,485	102.98	12
327	J-101	71.00	1	13,525	99.75	12
330	J-100	70.00	1	7,283	100.89	13

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 1 Off-Line + Fire South 1000

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
413	J-166	72.00	0	0	102.98	13
343	J-135	70.00	1	13,525	102.37	14
646	J-200	70.00	0	0	102.49	14
346	J-137	70.00	1	13,525	102.83	14
519	J-169	69.00	0	0	102.98	15
417	J-167	68.00	1	8,323	102.98	15
411	J-165	64.00	1	5,202	102.86	17
30	J-WTP2-1	130.00	0	0	208.00	34
442	J-7	128.00	0	0	270.89	62
1122	J-354	140.00	0	0	288.24	64
37	J-5	128.00	0	0	276.24	64
1178	J-Lake Hills 1	140.00	0	0	290.41	65
1245	J-WTP3-2	140.00	0	0	290.91	65
31	J-2	128.00	0	0	283.67	67
33	J-4	128.00	0	0	283.70	67
35	J-3	128.00	0	0	283.92	67
1108	J-Drake Point 3	126.24	1	67,320	287.27	70
1106	J-Drake Point 2	120.00	1	67,703	287.28	72
1110	J-Lake Hills 12	101.23	0	0	284.65	79
1112	J-Thompson Grove 1	92.46	1	104,040	284.63	83
1102	J-Lake Hills 11	92.23	0	0	287.59	85
1195	J-Lake Hills 10	92.00	1	27,158	287.48	85
1119	J-Westminster 1	87.02	1	133,875	284.60	85
1183	J-Lake Hills 3	84.00	1	27,540	286.86	88
1184	J-Lake Hills 4	82.00	1	27,540	286.91	89
1177	J-Lake Hills 2	81.00	2	169,575	286.86	89
1188	J-Lake Hills 6	80.00	1	27,158	286.96	90
1192	J-Lake Hills 7	79.00	1	27,158	287.01	90
1114	J-Cypress Point 1	73.64	1	21,038	284.60	91
1196	J-Lake Hills 9	76.00	1	27,540	287.29	91
1187	J-Lake Hills 5	75.00	1	27,158	286.94	92
1104	J-Drake Point 1	75.00	1	67,703	287.31	92
1116	J-Cypress Point 2	70.02	1	21,038	284.60	93
1189	J-Lake Hills 8	71.00	1	27,158	287.13	94

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 3 Off-Line

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
668	J-WTP1-3	81.00	0	0	82.96	1
666	J-WTP1-2	81.00	0	0	82.96	1
664	J-WTP1-1	81.00	0	0	82.96	1
1248	J-WTP3-1	140.00	0	0	142.00	1
30	J-WTP2-1	130.00	0	0	208.00	34
68	J-Mission Inn 6	154.00	1	16,646	244.13	39
568	J-Mission Inn 5	154.00	0	0	244.20	39
41	J-6	152.00	0	0	243.39	40
66	J-Mission Inn 10	152.00	0	0	244.10	40
46	J-9	151.00	0	0	243.94	40
1178	J-Lake Hills 1	140.00	0	0	233.97	41
1245	J-WTP3-2	140.00	0	0	233.97	41
1122	J-354	140.00	0	0	233.98	41
74	J-Mission Inn 9	150.00	1	4,162	244.13	41
869	J-Watermark 5	159.36	1	60,053	253.54	41
78	J-Mission Inn 4	150.00	0	0	244.27	41
355	J-140	152.00	0	0	246.81	41
44	J-8	152.00	1	1,040	246.81	41
82	J-Mission Inn 3	149.00	0	0	244.28	41
86	J-Mission Inn 2	149.00	1	15,606	244.28	41
70	J-Mission Inn 7	148.00	1	8,323	244.13	42
48	J-Mission Inn 1	148.00	0	0	244.26	42
72	J-Mission Inn 8	146.00	1	4,162	244.13	42
374	J-141	146.00	0	0	246.80	44
351	J-94	144.00	0	0	246.82	44
1217	J-386	141.00	0	0	244.03	45
539	J-142	141.00	0	0	246.80	46
35	J-3	128.00	0	0	234.13	46
33	J-4	128.00	0	0	234.13	46
31	J-2	128.00	0	0	234.14	46
37	J-5	128.00	0	0	234.65	46
442	J-7	128.00	0	0	235.02	46
764	J-Whispering Hills 2	146.07	0	0	253.14	46
1108	J-Drake Point 3	126.24	1	67,320	233.46	46
866	J-Watermark 4	145.57	1	9,180	253.56	47
50	J-Mission Inn 11	134.00	0	0	244.05	48
1106	J-Drake Point 2	120.00	1	67,703	233.47	49
90	J-Mission Inn 14	131.00	0	0	245.24	49
640	J-198	131.95	0	0	246.81	50
92	J-23	130.00	0	0	245.25	50
94	J-Mission Inn 15	130.00	0	0	245.38	50
96	J-25	130.00	0	0	245.57	50
114	J-27	129.00	1	15,606	246.24	51
100	J-26	128.00	1	3,121	246.12	51
863	J-Watermark 3	135.17	1	8,415	253.57	51

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 3 Off-Line

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
1162	J-365	135.00	0	0	253.54	51
338	J-93	128.00	0	0	246.81	51
52	J-Mission Inn 12	125.00	0	0	244.04	52
54	J-Mission Inn 13	124.00	1	37,454	244.03	52
544	J-170	123.00	0	0	246.79	54
502	J-98	122.00	0	0	246.90	54
102	J-38	121.00	0	0	246.74	54
490	J-102	122.00	0	0	247.78	54
104	J-92	121.00	0	0	246.79	54
512	J-96	121.00	0	0	246.89	54
643	J-199	119.72	0	0	246.93	55
495	J-90	120.00	0	0	247.83	55
325	J-89	120.00	0	0	247.90	55
322	J-88	120.00	0	0	247.94	55
340	J-97	119.00	1	14,566	246.96	55
348	J-95	118.00	1	17,687	246.86	56
377	J-157	117.00	1	12,485	246.79	56
372	J-143	117.00	1	4,162	246.80	56
576	J-183	118.00	0	0	248.02	56
315	J-104	117.00	0	0	248.32	57
108	J-39	116.00	0	0	247.97	57
110	J-40	116.00	1	11,444	248.01	57
1110	J-Lake Hills 12	101.23	0	0	233.91	57
319	J-87	115.00	0	0	248.34	58
332	J-99	113.00	1	10,404	247.13	58
334	J-91	113.00	1	4,162	247.14	58
106	J-37	112.00	1	5,202	247.37	59
860	J-Watermark 2	116.57	1	8,415	253.60	59
357	J-139	107.00	1	15,606	246.81	60
1112	J-Thompson Grove 1	92.46	1	104,040	233.88	61
1102	J-Lake Hills 11	92.23	0	0	233.78	61
1195	J-Lake Hills 10	92.00	1	27,158	233.77	61
447	J-36	105.00	0	0	247.63	62
529	J-156	104.00	0	0	246.79	62
534	J-144	104.00	0	0	246.80	62
306	J-106	106.00	0	0	248.90	62
123	J-35	104.00	1	12,485	247.69	62
121	J-32	104.00	1	20,808	247.70	62
369	J-145	103.00	1	3,121	246.80	62
382	J-158	102.00	1	12,485	246.79	63
507	J-136	102.00	0	0	246.98	63
304	J-86	103.00	1	3,121	248.91	63
612	J-190	104.74	0	0	250.65	63
616	J-191	104.64	1	10,404	250.68	63
379	J-155	100.00	1	8,323	246.79	64

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 3 Off-Line

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
1119	J-Westminster 1	87.02	1	133,875	233.86	64
169	J-63	104.00	1	12,485	251.34	64
983	J-Venezia 23	105.00	1	12,485	253.47	64
215	J-77	102.00	0	0	250.49	64
978	J-Venezia 18	105.00	1	10,404	253.61	64
786	J-248	102.22	0	0	251.25	64
165	J-60	102.00	1	11,444	251.29	65
167	J-61	102.00	0	0	251.29	65
897	J-Talichet 1	104.83	0	0	254.54	65
1183	J-Lake Hills 3	84.00	1	27,540	233.84	65
566	J-62	101.00	0	0	251.29	65
635	J-197	100.00	0	0	250.49	65
211	J-56	100.22	0	0	251.11	65
156	J-54	100.06	1	2,081	251.15	65
973	J-Venezia 19	102.41	1	11,444	253.60	65
201	J-52	100.00	0	0	251.60	66
203	J-51	100.00	1	2,081	251.62	66
1184	J-Lake Hills 4	82.00	1	27,540	233.79	66
524	J-154	95.00	0	0	246.79	66
772	J-240	100.95	0	0	253.61	66
1148	J-Watermark 1	100.95	0	0	253.61	66
1177	J-Lake Hills 2	81.00	2	169,575	233.87	66
809	J-Mission Rise 5	100.08	1	11,093	253.71	66
1188	J-Lake Hills 6	80.00	1	27,158	233.77	67
386	J-153	93.00	1	6,242	246.79	67
388	J-159	93.00	0	0	246.80	67
367	J-146	93.00	1	3,121	246.80	67
1053	J-Venezia 2	100.09	0	0	253.93	67
773	J-Venezia 1	100.12	0	0	253.98	67
688	J-209	97.00	1	5,202	251.19	67
158	J-53	97.00	1	13,525	251.25	67
1192	J-Lake Hills 7	79.00	1	27,158	233.77	67
213	J-Venezia 3	99.00	0	0	253.85	67
154	J-58	96.00	1	1,040	251.25	67
629	J-196	96.00	1	13,525	251.26	67
812	J-Mission Rise 6	98.40	1	11,093	253.66	67
895	J-Talichet 2	99.21	0	0	254.55	67
465	J-78	95.00	0	0	250.45	67
192	J-50	96.50	1	1,040	251.97	67
116	J-28	92.00	0	0	247.57	67
119	J-29	92.00	1	12,485	247.61	67
404	J-162	91.00	0	0	246.79	67
968	J-Venezia 20	97.78	1	11,444	253.60	67
581	J-184	93.00	0	0	249.23	68
607	J-189	95.00	0	0	251.25	68

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 3 Off-Line

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
815	J-Mission Rise 7	97.32	1	11,093	253.60	68
255	J-79	94.00	1	4,162	250.45	68
848	J-Mission Rise 18	97.08	1	10,710	253.56	68
839	J-Mission Rise 15	96.89	1	10,710	253.53	68
702	J-Venezia 4	97.00	1	32,513	253.78	68
400	J-160	90.00	1	16,646	246.79	68
842	J-Mission Rise 16	96.14	1	10,710	253.53	68
251	J-123	93.00	0	0	250.44	68
1196	J-Lake Hills 9	76.00	1	27,540	233.77	68
186	J-49	95.08	1	1,040	253.23	68
1133	J-Venezia 24	95.33	1	16,646	253.50	68
235	J-131	95.00	0	0	253.38	69
239	J-132	95.00	0	0	253.41	69
1104	J-Drake Point 1	75.00	1	67,703	233.50	69
957	J-Venezia 25	95.00	1	10,404	253.53	69
133	J-33	91.00	0	0	249.55	69
194	J-66	93.00	1	3,121	251.57	69
1187	J-Lake Hills 5	75.00	1	27,158	233.77	69
407	J-163	88.00	1	3,121	246.79	69
1168	J-Venezia TH 1	95.00	0	0	253.82	69
934	J-Talichet 6	95.60	1	3,121	254.55	69
881	J-Talichet II 1	94.95	1	5,738	254.04	69
475	J-120	91.00	0	0	250.32	69
806	J-Mission Rise 4	94.43	1	11,093	253.77	69
818	J-Mission Rise 8	94.12	1	11,093	253.50	69
930	J-Talichet 3	95.16	1	6,242	254.55	69
824	J-Mission Rise 10	94.09	1	6,503	253.50	69
827	J-Mission Rise 11	94.06	1	6,503	253.50	69
932	J-Talichet 4	95.07	1	3,121	254.55	69
1166	J-Venezia TH 2	94.00	1	6,885	253.78	69
402	J-161	87.00	0	0	246.79	69
426	J-168	87.00	0	0	246.79	69
126	J-30	88.00	0	0	247.89	69
1043	J-324	95.01	0	0	254.92	69
1041	J-323	94.88	0	0	254.94	69
130	J-31	88.00	0	0	248.17	69
1114	J-Cypress Point 1	73.64	1	21,038	233.85	69
480	J-118	90.00	0	0	250.23	69
268	J-81	90.00	1	4,162	250.23	69
152	J-76	91.00	1	8,323	251.30	69
452	J-41	89.00	1	5,202	249.61	69
704	J-Venezia 5	93.00	0	0	253.61	69
963	J-Venezia 21	92.72	1	13,525	253.60	70
1100	J-Golden Hills 1	92.58	1	232,178	253.47	70
597	J-187	90.00	0	0	251.54	70

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 3 Off-Line

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
179	J-67	90.00	0	0	251.57	70
879	J-Talichet II 2	92.00	1	2,295	254.02	70
776	J-Cedar Creek 1	91.69	1	65,408	253.92	70
257	J-80	88.00	1	4,162	250.32	70
173	J-64	89.00	0	0	251.44	70
301	J-85	87.00	0	0	249.45	70
198	J-65	89.00	1	5,202	251.50	70
1203	J-Venezia TH 3	91.00	1	8,798	253.76	70
1189	J-Lake Hills 8	71.00	1	27,158	233.76	70
730	J-Venezia 30	90.81	0	0	253.60	70
1138	J-Venezia 32	90.74	1	4,162	253.67	70
845	J-Mission Rise 17	90.35	1	10,710	253.54	71
724	J-220	90.23	0	0	253.52	71
883	J-Talichet 14	90.88	1	3,121	254.20	71
245	J-134	90.00	1	10,404	253.40	71
241	J-133	90.00	0	0	253.41	71
1035	J-Venezia 34	90.25	1	2,081	253.67	71
602	J-188	88.00	0	0	251.43	71
836	J-Mission Rise 14	90.07	1	6,503	253.52	71
1142	J-Mission Rise 1	90.47	0	0	253.94	71
720	J-Venezia 26	90.00	1	5,202	253.53	71
1152	J-Mission Rise 22	89.96	0	0	253.62	71
936	J-Talichet 5	90.78	1	5,202	254.55	71
391	J-152	83.00	0	0	246.79	71
393	J-151	83.00	1	6,242	246.79	71
422	J-150	83.00	1	3,121	246.79	71
1116	J-Cypress Point 2	70.02	1	21,038	233.85	71
803	J-Mission Rise 3	89.89	1	10,710	253.83	71
800	J-Mission Rise 2	89.97	1	10,710	253.92	71
876	J-The Reserve 14	89.84	0	0	253.84	71
135	J-34	84.00	1	10,404	248.11	71
1084	J-The Reserve 13	89.69	2	126,225	253.81	71
830	J-Mission Rise 12	89.37	1	6,503	253.51	71
1059	J-Talichet 13	90.07	1	1,040	254.23	71
1081	J-The Reserve 12	89.60	1	2,295	253.82	71
1078	J-The Reserve 11	89.47	1	2,295	253.82	71
176	J-75	87.00	0	0	251.46	71
1075	J-The Reserve 10	89.34	2	132,983	253.82	71
732	J-Venezia 31	89.16	1	6,242	253.67	71
1004	J-Venezia 12	88.68	1	4,162	253.37	71
432	J-44	90.00	0	0	254.73	71
1129	J-Venezia 10	88.52	1	11,444	253.37	71
436	J-45	90.00	0	0	254.94	71
833	J-Mission Rise 13	88.53	1	6,503	253.51	71
893	J-Talichet 7	89.60	1	12,485	254.61	71

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 3 Off-Line

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
762	J-234	88.95	0	0	253.98	71
556	J-174	91.00	0	0	256.08	71
851	J-Mission Rise 19	88.36	1	10,710	253.57	71
1064	J-329	88.47	0	0	253.76	72
624	J-194	88.00	1	3,121	253.35	72
470	J-122	85.00	0	0	250.43	72
885	J-Talichet 12	88.74	1	2,081	254.25	72
143	J-71	85.00	0	0	250.56	72
181	J-68	86.00	0	0	251.62	72
141	J-70	85.00	0	0	250.62	72
365	J-147	81.00	1	3,121	246.80	72
139	J-42	84.00	0	0	250.12	72
585	J-185	90.00	0	0	256.15	72
1157	J-330	87.56	0	0	253.75	72
429	J-43	84.00	1	9,364	250.26	72
821	J-Mission Rise 9	87.13	1	6,503	253.50	72
738	J-Venezia 33	87.00	1	6,242	253.67	72
873	J-The Reserve 8	86.99	0	0	253.75	72
914	J-Talichet 17	87.41	1	5,202	254.23	72
1017	J-Venezia 6	86.57	0	0	253.46	72
712	J-215	86.31	0	0	253.21	72
994	J-Venezia 22	86.52	1	4,162	253.45	72
249	J-121	83.00	1	5,202	250.43	72
706	J-Venezia 7	86.00	0	0	253.45	72
485	J-108	82.00	0	0	249.45	72
797	J-251	85.79	0	0	253.77	73
793	J-Venezia 35	85.52	0	0	253.71	73
264	J-117	82.00	0	0	250.22	73
857	J-Mission Rise 21	85.31	1	10,710	253.59	73
887	J-Talichet 11	86.01	1	31,860	254.32	73
759	J-The Reserve 9	86.74	1	8,798	255.06	73
457	J-125	82.31	1	10,404	250.65	73
952	J-Venezia 29	85.03	1	5,202	253.52	73
621	J-193	85.00	1	1,040	253.52	73
854	J-Mission Rise 20	85.00	1	10,710	253.58	73
790	J-249	85.17	0	0	253.76	73
1097	J-The Reserve 7	85.00	1	92,565	253.81	73
1095	J-The Reserve 6	85.05	1	92,565	253.87	73
1093	J-The Reserve 5	85.01	1	3,825	253.92	73
1091	J-The Reserve 4	85.00	1	3,825	253.96	73
1089	J-The Reserve 3	85.01	1	25,628	254.07	73
775	J-The Reserve 1	85.21	0	0	254.29	73
275	J-82	81.00	0	0	250.15	73
273	J-113	81.00	0	0	250.15	73
1087	J-The Reserve 2	85.05	1	32,895	254.25	73

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 3 Off-Line

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
910	J-Talichet 15	85.00	1	11,444	254.21	73
912	J-Talichet 16	85.00	1	7,283	254.22	73
728	J-Venezia 28	84.00	0	0	253.52	73
889	J-Talichet 10	85.00	1	3,121	254.58	73
1205	J-Venezia TH 4	84.00	1	27,540	253.75	73
891	J-Talichet 8	85.00	1	18,727	254.76	73
923	J-Talichet 9	85.00	1	3,121	254.79	73
419	J-149	77.00	0	0	246.80	73
926	J-295	85.00	1	3,121	255.00	74
549	J-Mitchell 1	85.00	1	13,525	255.06	74
592	J-186	85.00	1	7,283	255.11	74
677	J-WTP1-6	86.25	0	0	256.41	74
678	J-WTP1-5	86.25	0	0	256.41	74
679	J-WTP1-4	86.25	0	0	256.41	74
150	J-74	81.00	1	2,081	251.21	74
718	J-Venezia 11	83.00	1	8,323	253.37	74
722	J-Venezia 27	83.00	1	11,444	253.52	74
363	J-148	76.00	0	0	246.81	74
360	J-138	76.00	1	11,444	246.81	74
756	J-Whispering Hills 1	81.37	0	0	252.40	74
754	J-229	82.11	0	0	253.18	74
769	J-238	85.00	0	0	256.08	74
554	J-173	84.00	0	0	255.10	74
1012	J-Venezia 9	82.26	1	6,242	253.38	74
708	J-Venezia 8	82.00	1	2,081	253.38	74
1032	J-Venezia 17	81.62	1	2,081	253.24	74
757	J-231	80.71	0	0	252.40	74
409	J-164	75.00	1	12,485	246.79	74
1023	J-Venezia 13	81.45	1	3,121	253.34	74
716	J-Venezia 16	81.00	1	4,162	253.24	75
259	J-119	78.00	1	11,444	250.32	75
999	J-Venezia 14	80.56	1	4,162	253.28	75
1170	J-369	82.00	0	0	255.06	75
289	J-84	77.00	0	0	250.07	75
552	J-172	82.00	0	0	255.08	75
112	J-72	77.00	0	0	250.15	75
710	J-Venezia 15	80.00	1	3,121	253.24	75
280	J-112	77.00	0	0	250.49	75
148	J-73	77.00	0	0	250.55	75
219	J-Island 1	77.00	1	2,081	250.88	75
1214	J-Venezia S	79.00	0	0	253.75	76
413	J-166	72.00	0	0	246.79	76
231	J-130	77.00	0	0	253.13	76
227	J-129	75.00	1	20,808	251.54	76
327	J-101	71.00	1	13,525	247.61	76

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 3 Off-Line

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
346	J-137	70.00	1	13,525	246.88	77
646	J-200	70.00	0	0	246.99	77
343	J-135	70.00	1	13,525	247.02	77
330	J-100	70.00	1	7,283	247.38	77
519	J-169	69.00	0	0	246.80	77
313	J-103	70.00	1	19,768	248.30	77
417	J-167	68.00	1	8,323	246.79	77
1068	J-Whispering Hills 3	70.72	1	47,813	252.41	79
292	J-110	68.00	0	0	250.04	79
262	J-116	68.00	1	15,606	250.22	79
299	J-107	67.00	1	13,525	249.45	79
411	J-165	64.00	1	5,202	246.66	79
310	J-105	66.00	1	14,566	248.89	79
217	J-124	67.00	0	0	250.51	79
225	J-Island 3	65.00	1	9,364	250.87	80
296	J-109	64.00	0	0	250.03	80
286	J-111	64.00	1	1,040	250.11	81
271	J-115	64.00	1	9,364	250.15	81
1070	J-Whispering Hills 4	65.00	1	11,858	252.41	81
221	J-Island 2	62.00	1	4,162	250.87	82

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 3 Off-Line + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
668	J-WTP1-3	81.00	0	0	82.89	1
666	J-WTP1-2	81.00	0	0	82.90	1
664	J-WTP1-1	81.00	0	0	82.90	1
1248	J-WTP3-1	140.00	0	0	142.00	1
68	J-Mission Inn 6	154.00	2	2,176,646	190.75	16
66	J-Mission Inn 30	152.00	0	0	191.31	17
568	J-Mission Inn 5	154.00	0	0	193.38	17
74	J-Mission Inn 9	150.00	1	4,162	190.75	18
70	J-Mission Inn 7	148.00	1	8,323	190.75	18
41	J-6	152.00	0	0	195.94	19
72	J-Mission Inn 8	146.00	1	4,162	190.75	19
46	J-9	151.00	0	0	196.48	20
1178	J-Lake Hills 1	140.00	0	0	186.51	20
1245	J-WTP3-2	140.00	0	0	186.51	20
1122	J-354	140.00	0	0	186.52	20
78	J-Mission Inn 4	150.00	0	0	196.57	20
82	J-Mission Inn 3	149.00	0	0	196.69	21
86	J-Mission Inn 2	149.00	1	15,606	197.01	21
48	J-Mission Inn 1	148.00	0	0	197.92	22
1217	J-386	141.00	0	0	193.04	23
50	J-Mission Inn 11	134.00	0	0	192.33	25
35	J-3	128.00	0	0	186.67	25
33	J-4	128.00	0	0	186.68	25
31	J-2	128.00	0	0	186.68	25
37	J-5	128.00	0	0	187.20	26
442	J-7	128.00	0	0	187.57	26
1108	J-Drake Point 3	126.24	1	67,320	186.01	26
1106	J-Drake Point 2	120.00	1	67,703	186.02	29
52	J-Mission Inn 12	125.00	0	0	192.32	29
54	J-Mission Inn 13	124.00	1	37,454	192.32	30
44	J-8	152.00	1	1,040	221.94	30
355	J-140	152.00	0	0	222.03	30
90	J-Mission Inn 14	131.00	0	0	206.29	33
374	J-141	146.00	0	0	222.09	33
92	J-23	130.00	0	0	206.46	33
94	J-Mission Inn 15	130.00	0	0	207.60	34
351	J-94	144.00	0	0	221.82	34
30	J-WTP2-1	130.00	0	0	208.00	34
96	J-25	130.00	0	0	209.26	34
539	J-142	141.00	0	0	222.09	35
1110	J-Lake Hills 12	101.23	0	0	186.45	37
100	J-26	128.00	1	3,121	214.18	37
114	J-27	129.00	1	15,606	215.24	37

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 3 Off-Line + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
640	J-198	131.95	0	0	221.26	39
338	J-93	128.00	0	0	221.07	40
1112	J-Thompson Grove 1	92.46	1	104,040	186.43	41
1102	J-Lake Hills 11	92.23	0	0	186.32	41
1195	J-Lake Hills 10	92.00	1	27,158	186.32	41
102	J-38	121.00	0	0	219.75	43
544	J-170	123.00	0	0	222.11	43
104	J-92	121.00	0	0	220.32	43
1119	J-Westminster 1	87.02	1	133,875	186.40	43
502	J-98	122.00	0	0	222.01	43
512	J-96	121.00	0	0	222.48	44
1183	J-Lake Hills 3	84.00	1	27,540	186.39	44
643	J-199	119.72	0	0	222.62	45
340	J-97	119.00	1	14,566	222.70	45
1184	J-Lake Hills 4	82.00	1	27,540	186.33	45
348	J-95	118.00	1	17,687	222.35	45
377	J-157	117.00	1	12,485	222.11	45
372	J-143	117.00	1	4,162	222.12	45
1177	J-Lake Hills 2	81.00	2	169,575	186.41	46
490	J-102	122.00	0	0	227.52	46
869	J-Watermark 5	159.36	1	60,053	264.98	46
1188	J-Lake Hills 6	80.00	1	27,158	186.31	46
1192	J-Lake Hills 7	79.00	1	27,158	186.31	46
495	J-90	120.00	0	0	227.61	47
325	J-89	120.00	0	0	228.08	47
322	J-88	120.00	0	0	228.27	47
1196	J-Lake Hills 9	76.00	1	27,540	186.31	48
334	J-91	113.00	1	4,162	223.38	48
332	J-99	113.00	1	10,404	223.47	48
576	J-183	118.00	0	0	228.84	48
1104	J-Drake Point 1	75.00	1	67,703	186.05	48
1187	J-Lake Hills 5	75.00	1	27,158	186.32	48
106	J-37	112.00	1	5,202	224.18	49
108	J-39	116.00	0	0	228.40	49
110	J-40	116.00	1	11,444	228.61	49
1114	J-Cypress Point 1	73.64	1	21,038	186.40	49
315	J-104	117.00	0	0	231.16	49
357	J-139	107.00	1	15,606	222.19	50
1189	J-Lake Hills 8	71.00	1	27,158	186.31	50
319	J-87	115.00	0	0	231.21	50
1116	J-Cypress Point 2	70.02	1	21,038	186.40	50
764	J-Whispering Hills 2	146.07	0	0	263.32	51
529	J-156	104.00	0	0	222.13	51

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 3 Off-Line + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
534	J-144	104.00	0	0	222.13	51
369	J-145	103.00	1	3,121	222.14	52
866	J-Watermark 4	145.57	1	9,180	265.03	52
382	J-158	102.00	1	12,485	222.12	52
507	J-136	102.00	0	0	222.87	52
447	J-36	105.00	0	0	226.02	52
379	J-155	100.00	1	8,323	222.13	53
123	J-35	104.00	1	12,485	226.37	53
121	J-32	104.00	1	20,808	226.43	53
524	J-154	95.00	0	0	222.14	55
306	J-106	106.00	0	0	234.80	56
386	J-153	93.00	1	6,242	222.14	56
388	J-159	93.00	0	0	222.15	56
367	J-146	93.00	1	3,121	222.15	56
863	J-Watermark 3	135.17	1	8,415	265.07	56
1162	J-365	135.00	0	0	264.95	56
404	J-162	91.00	0	0	222.15	57
304	J-86	103.00	1	3,121	234.82	57
400	J-160	90.00	1	16,646	222.14	57
116	J-28	92.00	0	0	225.41	58
119	J-29	92.00	1	12,485	225.70	58
407	J-163	88.00	1	3,121	222.14	58
402	J-161	87.00	0	0	222.15	58
426	J-168	87.00	0	0	222.15	58
391	J-152	83.00	0	0	222.15	60
393	J-151	83.00	1	6,242	222.15	60
422	J-150	83.00	1	3,121	222.15	60
126	J-30	88.00	0	0	227.45	60
365	J-147	81.00	1	3,121	222.16	61
130	J-31	88.00	0	0	229.22	61
612	J-190	104.74	0	0	246.17	61
616	J-191	104.64	1	10,404	246.35	61
215	J-77	102.00	0	0	245.45	62
581	J-184	93.00	0	0	236.78	62
169	J-63	104.00	1	12,485	249.06	63
135	J-34	84.00	1	10,404	229.18	63
419	J-149	77.00	0	0	222.19	63
635	J-197	100.00	0	0	245.47	63
363	J-148	76.00	0	0	222.20	63
360	J-138	76.00	1	11,444	222.21	63
786	J-248	102.22	0	0	248.74	63
133	J-33	91.00	0	0	237.54	63
165	J-60	102.00	1	11,444	248.89	64

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 3 Off-Line + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
167	J-61	102.00	0	0	248.89	64
409	J-164	75.00	1	12,485	222.14	64
566	J-62	101.00	0	0	248.89	64
211	J-56	100.22	0	0	248.16	64
156	J-54	100.06	1	2,081	248.33	64
860	J-Watermark 2	116.57	1	8,415	265.15	64
452	J-41	89.00	1	5,202	237.89	64
413	J-166	72.00	0	0	222.15	65
201	J-52	100.00	0	0	250.16	65
465	J-78	95.00	0	0	245.19	65
203	J-51	100.00	1	2,081	250.23	65
301	J-85	87.00	0	0	238.11	65
255	J-79	94.00	1	4,162	245.14	65
688	J-209	97.00	1	5,202	248.48	66
158	J-53	97.00	1	13,525	248.74	66
251	J-123	93.00	0	0	245.11	66
346	J-137	70.00	1	13,525	222.52	66
629	J-196	96.00	1	13,525	248.73	66
154	J-58	96.00	1	1,040	248.73	66
646	J-200	70.00	0	0	223.10	66
519	J-169	69.00	0	0	222.17	66
475	J-120	91.00	0	0	244.19	66
343	J-135	70.00	1	13,525	223.28	66
480	J-118	90.00	0	0	243.34	66
268	J-81	90.00	1	4,162	243.34	66
607	J-189	95.00	0	0	248.73	67
417	J-167	68.00	1	8,323	222.15	67
330	J-100	70.00	1	7,283	225.35	67
192	J-50	96.50	1	1,040	251.87	67
327	J-101	71.00	1	13,525	226.77	67
485	J-108	82.00	0	0	238.11	68
257	J-80	88.00	1	4,162	244.19	68
139	J-42	84.00	0	0	240.87	68
194	J-66	93.00	1	3,121	249.89	68
152	J-76	91.00	1	8,323	248.74	68
429	J-43	84.00	1	9,364	241.89	68
411	J-165	64.00	1	5,202	222.02	68
143	J-71	85.00	0	0	243.51	69
141	J-70	85.00	0	0	243.75	69
983	J-Venezia 23	105.00	1	12,485	264.62	69
597	J-187	90.00	0	0	249.75	69
179	J-67	90.00	0	0	249.89	69
978	J-Venezia 18	105.00	1	10,404	264.93	69

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 3 Off-Line + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
470	J-122	85.00	0	0	245.09	69
173	J-64	89.00	0	0	249.38	69
198	J-65	89.00	1	5,202	249.66	70
897	J-Talichet 1	104.83	0	0	265.83	70
313	J-103	70.00	1	19,768	231.12	70
264	J-117	82.00	0	0	243.34	70
602	J-188	88.00	0	0	249.34	70
275	J-82	81.00	0	0	242.50	70
273	J-113	81.00	0	0	242.50	70
249	J-121	83.00	1	5,202	245.08	70
176	J-75	87.00	0	0	249.39	70
973	J-Venezia 19	102.41	1	11,444	264.93	70
186	J-49	95.08	1	1,040	257.79	70
181	J-68	86.00	0	0	250.04	71
772	J-240	100.95	0	0	265.19	71
1148	J-Watermark 1	100.95	0	0	265.19	71
289	J-84	77.00	0	0	241.61	71
112	J-72	77.00	0	0	241.90	71
457	J-125	82.31	1	10,404	247.31	71
1053	J-Venezia 2	100.09	0	0	265.37	72
773	J-Venezia 1	100.12	0	0	265.43	72
809	J-Mission Rise 5	100.08	1	11,093	265.67	72
259	J-119	78.00	1	11,444	244.19	72
213	J-Venezia 3	99.00	0	0	265.26	72
895	J-Talichet 2	99.21	0	0	265.90	72
280	J-112	77.00	0	0	243.95	72
150	J-74	81.00	1	2,081	248.07	72
968	J-Venezia 20	97.78	1	11,444	264.94	72
812	J-Mission Rise 6	98.40	1	11,093	265.57	72
148	J-73	77.00	0	0	244.23	72
848	J-Mission Rise 18	97.08	1	10,710	265.23	73
815	J-Mission Rise 7	97.32	1	11,093	265.48	73
702	J-Venezia 4	97.00	1	32,513	265.17	73
839	J-Mission Rise 15	96.89	1	10,710	265.23	73
310	J-105	66.00	1	14,566	234.78	73
842	J-Mission Rise 16	96.14	1	10,710	265.23	73
235	J-131	95.00	0	0	264.34	73
1133	J-Venezia 24	95.33	1	16,646	264.74	73
239	J-132	95.00	0	0	264.44	73
957	J-Venezia 25	95.00	1	10,404	264.83	73
1168	J-Venezia TH 1	95.00	0	0	265.22	74
934	J-Talichet 6	95.60	1	3,121	265.90	74
930	J-Talichet 3	95.16	1	6,242	265.90	74

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 3 Off-Line + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
932	J-Talichet 4	95.07	1	3,121	265.90	74
881	J-Talichet II 1	94.95	1	5,738	265.79	74
1043	J-324	95.01	0	0	265.94	74
1041	J-323	94.88	0	0	265.98	74
299	J-107	67.00	1	13,525	238.11	74
818	J-Mission Rise 8	94.12	1	11,093	265.28	74
824	J-Mission Rise 10	94.09	1	6,503	265.25	74
1166	J-Venezia TH 2	94.00	1	6,885	265.18	74
827	J-Mission Rise 11	94.06	1	6,503	265.24	74
806	J-Mission Rise 4	94.43	1	11,093	265.77	74
704	J-Venezia 5	93.00	0	0	264.93	74
963	J-Venezia 21	92.72	1	13,525	264.95	75
219	J-Island 1	77.00	1	2,081	249.40	75
1100	J-Golden Hills 1	92.58	1	232,178	265.25	75
292	J-110	68.00	0	0	241.57	75
879	J-Talichet II 2	92.00	1	2,295	265.76	75
730	J-Venezia 30	90.81	0	0	264.95	75
1203	J-Venezia TH 3	91.00	1	8,798	265.15	75
776	J-Cedar Creek 1	91.69	1	65,408	266.04	75
1138	J-Venezia 32	90.74	1	4,162	265.13	75
245	J-134	90.00	1	10,404	264.44	75
241	J-133	90.00	0	0	264.44	75
724	J-220	90.23	0	0	264.84	76
720	J-Venezia 26	90.00	1	5,202	264.84	76
845	J-Mission Rise 17	90.35	1	10,710	265.23	76
1035	J-Venezia 34	90.25	1	2,081	265.13	76
432	J-44	90.00	0	0	264.89	76
936	J-Talichet 5	90.78	1	5,202	265.90	76
836	J-Mission Rise 14	90.07	1	6,503	265.23	76
883	J-Talichet 14	90.88	1	3,121	266.06	76
1152	J-Mission Rise 22	89.96	0	0	265.23	76
262	J-116	68.00	1	15,606	243.34	76
876	J-The Reserve 14	89.84	0	0	265.38	76
1142	J-Mission Rise 1	90.47	0	0	266.07	76
1004	J-Venezia 12	88.68	1	4,162	264.28	76
1084	J-The Reserve 13	89.69	2	126,225	265.37	76
1129	J-Venezia 10	88.52	1	11,444	264.28	76
1081	J-The Reserve 12	89.60	1	2,295	265.38	76
830	J-Mission Rise 12	89.37	1	6,503	265.24	76
1078	J-The Reserve 11	89.47	1	2,295	265.40	76
732	J-Venezia 31	89.16	1	6,242	265.13	76
436	J-45	90.00	0	0	265.98	76
803	J-Mission Rise 3	89.89	1	10,710	265.88	76

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 3 Off-Line + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
1059	J-Talichet 13	90.07	1	1,040	266.11	76
800	J-Mission Rise 2	89.97	1	10,710	266.03	76
1075	J-The Reserve 10	89.34	2	132,983	265.42	76
624	J-194	88.00	1	3,121	264.22	76
893	J-Talichet 7	89.60	1	12,485	266.22	76
833	J-Mission Rise 13	88.53	1	6,503	265.24	76
762	J-234	88.95	0	0	265.69	76
851	J-Mission Rise 19	88.36	1	10,710	265.23	77
1064	J-329	88.47	0	0	265.35	77
712	J-215	86.31	0	0	263.60	77
885	J-Talichet 12	88.74	1	2,081	266.13	77
296	J-109	64.00	0	0	241.55	77
1157	J-330	87.56	0	0	265.35	77
1017	J-Venezia 6	86.57	0	0	264.53	77
994	J-Venezia 22	86.52	1	4,162	264.53	77
286	J-111	64.00	1	1,040	242.08	77
821	J-Mission Rise 9	87.13	1	6,503	265.25	77
738	J-Venezia 33	87.00	1	6,242	265.13	77
873	J-The Reserve 8	86.99	0	0	265.36	77
706	J-Venezia 7	86.00	0	0	264.49	77
271	J-115	64.00	1	9,364	242.53	77
756	J-Whispering Hills 1	81.37	0	0	260.00	77
914	J-Talichet 17	87.41	1	5,202	266.11	77
556	J-174	91.00	0	0	269.72	77
217	J-124	67.00	0	0	245.74	77
757	J-231	80.71	0	0	259.97	78
227	J-129	75.00	1	20,808	254.50	78
797	J-251	85.79	0	0	265.35	78
793	J-Venezia 35	85.52	0	0	265.22	78
952	J-Venezia 29	85.03	1	5,202	264.84	78
621	J-193	85.00	1	1,040	264.84	78
585	J-185	90.00	0	0	269.86	78
857	J-Mission Rise 21	85.31	1	10,710	265.23	78
790	J-249	85.17	0	0	265.34	78
854	J-Mission Rise 20	85.00	1	10,710	265.23	78
887	J-Talichet 11	86.01	1	31,860	266.25	78
1097	J-The Reserve 7	85.00	1	92,565	265.60	78
1095	J-The Reserve 6	85.05	1	92,565	265.75	78
728	J-Venezia 28	84.00	0	0	264.84	78
1093	J-The Reserve 5	85.01	1	3,825	265.85	78
759	J-The Reserve 9	86.74	1	8,798	267.63	78
1091	J-The Reserve 4	85.00	1	3,825	265.94	78
910	J-Talichet 15	85.00	1	11,444	266.07	78

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 3 Off-Line + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
912	J-Talichet 16	85.00	1	7,283	266.09	78
1205	J-Venezia TH 4	84.00	1	27,540	265.14	78
1089	J-The Reserve 3	85.01	1	25,628	266.17	78
718	J-Venezia 11	83.00	1	8,323	264.28	78
754	J-229	82.11	0	0	263.50	78
775	J-The Reserve 1	85.21	0	0	266.61	78
1087	J-The Reserve 2	85.05	1	32,895	266.52	79
889	J-Talichet 10	85.00	1	3,121	266.64	79
722	J-Venezia 27	83.00	1	11,444	264.84	79
891	J-Talichet 8	85.00	1	18,727	266.85	79
923	J-Talichet 9	85.00	1	3,121	266.94	79
1012	J-Venezia 9	82.26	1	6,242	264.28	79
1032	J-Venezia 17	81.62	1	2,081	263.73	79
708	J-Venezia 8	82.00	1	2,081	264.28	79
926	J-295	85.00	1	3,121	267.43	79
549	J-Mitchell 1	85.00	1	13,525	267.63	79
1023	J-Venezia 13	81.45	1	3,121	264.12	79
592	J-186	85.00	1	7,283	267.68	79
716	J-Venezia 16	81.00	1	4,162	263.73	79
999	J-Venezia 14	80.56	1	4,162	263.88	79
554	J-173	84.00	0	0	267.67	79
710	J-Venezia 15	80.00	1	3,121	263.73	79
677	J-WTP1-6	86.25	0	0	270.55	80
678	J-WTP1-5	86.25	0	0	270.55	80
679	J-WTP1-4	86.25	0	0	270.55	80
225	J-Island 3	65.00	1	9,364	249.39	80
769	J-238	85.00	0	0	269.74	80
1170	J-369	82.00	0	0	267.63	80
552	J-172	82.00	0	0	267.65	80
231	J-130	77.00	0	0	263.22	81
1214	J-Venezia S	79.00	0	0	265.35	81
221	J-Island 2	62.00	1	4,162	249.40	81
1068	J-Whispering Hills 3	70.72	1	47,813	260.41	82
1070	J-Whispering Hills 4	65.00	1	11,858	260.41	85

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 3 Off-Line + Fire South 1000

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
668	J-WTP1-3	81.00	0	0	82.92	1
666	J-WTP1-2	81.00	0	0	82.92	1
664	J-WTP1-1	81.00	0	0	82.93	1
1248	J-WTP3-1	140.00	0	0	142.00	1
30	J-WTP2-1	130.00	0	0	208.00	34
869	J-Watermark 5	159.36	2	1,500,053	246.87	38
68	J-Mission Inn 6	154.00	1	16,646	244.13	39
568	J-Mission Inn 5	154.00	0	0	244.20	39
41	J-6	152.00	0	0	243.39	40
66	J-Mission Inn 10	152.00	0	0	244.10	40
46	J-9	151.00	0	0	243.94	40
1178	J-Lake Hills 1	140.00	0	0	233.97	41
1245	J-WTP3-2	140.00	0	0	233.97	41
1122	J-354	140.00	0	0	233.98	41
74	J-Mission Inn 9	150.00	1	4,162	244.13	41
78	J-Mission Inn 4	150.00	0	0	244.27	41
355	J-140	152.00	0	0	246.80	41
44	J-8	152.00	1	1,040	246.81	41
82	J-Mission Inn 3	149.00	0	0	244.28	41
86	J-Mission Inn 2	149.00	1	15,606	244.28	41
70	J-Mission Inn 7	148.00	1	8,323	244.13	42
48	J-Mission Inn 1	148.00	0	0	244.26	42
72	J-Mission Inn 8	146.00	1	4,162	244.13	42
374	J-141	146.00	0	0	246.79	44
866	J-Watermark 4	145.57	1	9,180	247.71	44
351	J-94	144.00	0	0	246.81	44
1217	J-386	141.00	0	0	244.03	45
764	J-Whispering Hills 2	146.07	0	0	249.75	45
539	J-142	141.00	0	0	246.79	46
35	J-3	128.00	0	0	234.13	46
33	J-4	128.00	0	0	234.13	46
31	J-2	128.00	0	0	234.14	46
37	J-5	128.00	0	0	234.65	46
442	J-7	128.00	0	0	235.02	46
1108	J-Drake Point 3	126.24	1	67,320	233.46	46
50	J-Mission Inn 11	134.00	0	0	244.05	48
1162	J-365	135.00	0	0	247.20	49
863	J-Watermark 3	135.17	1	8,415	248.20	49
1106	J-Drake Point 2	120.00	1	67,703	233.47	49
90	J-Mission Inn 14	131.00	0	0	245.24	49
640	J-198	131.95	0	0	246.81	50
92	J-23	130.00	0	0	245.25	50
94	J-Mission Inn 15	130.00	0	0	245.38	50

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 3 Off-Line + Fire South 1000

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
96	J-25	130.00	0	0	245.57	50
114	J-27	129.00	1	15,606	246.24	51
100	J-26	128.00	1	3,121	246.12	51
338	J-93	128.00	0	0	246.81	51
52	J-Mission Inn 12	125.00	0	0	244.04	52
54	J-Mission Inn 13	124.00	1	37,454	244.03	52
544	J-170	123.00	0	0	246.79	54
502	J-98	122.00	0	0	246.89	54
102	J-38	121.00	0	0	246.74	54
490	J-102	122.00	0	0	247.77	54
104	J-92	121.00	0	0	246.78	54
512	J-96	121.00	0	0	246.89	54
643	J-199	119.72	0	0	246.93	55
495	J-90	120.00	0	0	247.82	55
325	J-89	120.00	0	0	247.89	55
322	J-88	120.00	0	0	247.92	55
340	J-97	119.00	1	14,566	246.95	55
348	J-95	118.00	1	17,687	246.85	56
377	J-157	117.00	1	12,485	246.79	56
372	J-143	117.00	1	4,162	246.79	56
576	J-183	118.00	0	0	248.00	56
315	J-104	117.00	0	0	248.28	57
108	J-39	116.00	0	0	247.97	57
110	J-40	116.00	1	11,444	248.00	57
1110	J-Lake Hills 12	101.23	0	0	233.91	57
860	J-Watermark 2	116.57	1	8,415	249.29	57
319	J-87	115.00	0	0	248.30	58
332	J-99	113.00	1	10,404	247.12	58
334	J-91	113.00	1	4,162	247.13	58
106	J-37	112.00	1	5,202	247.37	59
357	J-139	107.00	1	15,606	246.81	60
1112	J-Thompson Grove 1	92.46	1	104,040	233.88	61
1102	J-Lake Hills 11	92.23	0	0	233.78	61
1195	J-Lake Hills 10	92.00	1	27,158	233.77	61
447	J-36	105.00	0	0	247.65	62
529	J-156	104.00	0	0	246.78	62
534	J-144	104.00	0	0	246.79	62
306	J-106	106.00	0	0	248.82	62
123	J-35	104.00	1	12,485	247.71	62
121	J-32	104.00	1	20,808	247.72	62
369	J-145	103.00	1	3,121	246.79	62
382	J-158	102.00	1	12,485	246.78	63
507	J-136	102.00	0	0	246.97	63

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 3 Off-Line + Fire South 1000

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
983	J-Venezia 23	105.00	1	12,485	250.01	63
612	J-190	104.74	0	0	250.29	63
616	J-191	104.64	1	10,404	250.36	63
978	J-Venezia 18	105.00	1	10,404	250.75	63
304	J-86	103.00	1	3,121	248.83	63
379	J-155	100.00	1	8,323	246.78	64
1119	J-Westminster 1	87.02	1	133,875	233.86	64
169	J-63	104.00	1	12,485	251.47	64
215	J-77	102.00	0	0	250.02	64
973	J-Venezia 19	102.41	1	11,444	250.70	64
772	J-240	100.95	0	0	249.80	64
1148	J-Watermark 1	100.95	0	0	249.80	64
786	J-248	102.22	0	0	251.35	65
165	J-60	102.00	1	11,444	251.40	65
167	J-61	102.00	0	0	251.40	65
897	J-Talichet 1	104.83	0	0	254.46	65
1183	J-Lake Hills 3	84.00	1	27,540	233.84	65
635	J-197	100.00	0	0	250.01	65
566	J-62	101.00	0	0	251.40	65
211	J-56	100.22	0	0	251.11	65
156	J-54	100.06	1	2,081	251.18	65
809	J-Mission Rise 5	100.08	1	11,093	251.61	66
524	J-154	95.00	0	0	246.78	66
1184	J-Lake Hills 4	82.00	1	27,540	233.79	66
201	J-52	100.00	0	0	251.81	66
203	J-51	100.00	1	2,081	251.83	66
1053	J-Venezia 2	100.09	0	0	252.31	66
773	J-Venezia 1	100.12	0	0	252.48	66
1177	J-Lake Hills 2	81.00	2	169,575	233.87	66
968	J-Venezia 20	97.78	1	11,444	250.65	66
213	J-Venezia 3	99.00	0	0	252.00	66
812	J-Mission Rise 6	98.40	1	11,093	251.43	66
848	J-Mission Rise 18	97.08	1	10,710	250.35	66
839	J-Mission Rise 15	96.89	1	10,710	250.43	66
1188	J-Lake Hills 6	80.00	1	27,158	233.77	67
386	J-153	93.00	1	6,242	246.78	67
388	J-159	93.00	0	0	246.79	67
367	J-146	93.00	1	3,121	246.79	67
815	J-Mission Rise 7	97.32	1	11,093	251.25	67
239	J-132	95.00	0	0	248.97	67
235	J-131	95.00	0	0	249.06	67
688	J-209	97.00	1	5,202	251.24	67
842	J-Mission Rise 16	96.14	1	10,710	250.42	67

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 3 Off-Line + Fire South 1000

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
158	J-53	97.00	1	13,525	251.35	67
1133	J-Venezia 24	95.33	1	16,646	249.97	67
702	J-Venezia 4	97.00	1	32,513	251.72	67
1192	J-Lake Hills 7	79.00	1	27,158	233.77	67
957	J-Venezia 25	95.00	1	10,404	249.95	67
465	J-78	95.00	0	0	250.00	67
895	J-Talichet 2	99.21	0	0	254.49	67
154	J-58	96.00	1	1,040	251.35	67
629	J-196	96.00	1	13,525	251.35	67
116	J-28	92.00	0	0	247.60	67
119	J-29	92.00	1	12,485	247.64	67
192	J-50	96.50	1	1,040	252.28	67
404	J-162	91.00	0	0	246.78	67
255	J-79	94.00	1	4,162	249.99	67
581	J-184	93.00	0	0	249.14	68
607	J-189	95.00	0	0	251.35	68
827	J-Mission Rise 11	94.06	1	6,503	250.65	68
824	J-Mission Rise 10	94.09	1	6,503	250.69	68
818	J-Mission Rise 8	94.12	1	11,093	250.87	68
400	J-160	90.00	1	16,646	246.78	68
1168	J-Venezia TH 1	95.00	0	0	251.89	68
251	J-123	93.00	0	0	249.97	68
806	J-Mission Rise 4	94.43	1	11,093	251.79	68
1196	J-Lake Hills 9	76.00	1	27,540	233.77	68
1166	J-Venezia TH 2	94.00	1	6,885	251.77	68
704	J-Venezia 5	93.00	0	0	250.82	68
963	J-Venezia 21	92.72	1	13,525	250.61	68
881	J-Talichet II 1	94.95	1	5,738	252.93	68
1100	J-Golden Hills 1	92.58	1	232,178	250.85	68
724	J-220	90.23	0	0	248.72	69
1104	J-Drake Point 1	75.00	1	67,703	233.50	69
133	J-33	91.00	0	0	249.68	69
186	J-49	95.08	1	1,040	253.83	69
1187	J-Lake Hills 5	75.00	1	27,158	233.77	69
407	J-163	88.00	1	3,121	246.78	69
194	J-66	93.00	1	3,121	251.78	69
934	J-Talichet 6	95.60	1	3,121	254.49	69
475	J-120	91.00	0	0	249.95	69
245	J-134	90.00	1	10,404	248.97	69
241	J-133	90.00	0	0	248.97	69
930	J-Talichet 3	95.16	1	6,242	254.49	69
932	J-Talichet 4	95.07	1	3,121	254.49	69
402	J-161	87.00	0	0	246.78	69

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 3 Off-Line + Fire South 1000

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
426	J-168	87.00	0	0	246.78	69
730	J-Venezia 30	90.81	0	0	250.60	69
126	J-30	88.00	0	0	247.93	69
480	J-118	90.00	0	0	249.95	69
268	J-81	90.00	1	4,162	249.95	69
720	J-Venezia 26	90.00	1	5,202	249.95	69
845	J-Mission Rise 17	90.35	1	10,710	250.40	69
1114	J-Cypress Point 1	73.64	1	21,038	233.85	69
130	J-31	88.00	0	0	248.23	69
1138	J-Venezia 32	90.74	1	4,162	251.02	69
1152	J-Mission Rise 22	89.96	0	0	250.29	69
836	J-Mission Rise 14	90.07	1	6,503	250.49	69
152	J-76	91.00	1	8,323	251.44	69
776	J-Cedar Creek 1	91.69	1	65,408	252.30	69
1203	J-Venezia TH 3	91.00	1	8,798	251.74	70
452	J-41	89.00	1	5,202	249.74	70
1035	J-Venezia 34	90.25	1	2,081	251.02	70
879	J-Talichet II 2	92.00	1	2,295	252.88	70
1043	J-324	95.01	0	0	255.91	70
1041	J-323	94.88	0	0	255.95	70
624	J-194	88.00	1	3,121	249.16	70
830	J-Mission Rise 12	89.37	1	6,503	250.62	70
1004	J-Venezia 12	88.68	1	4,162	249.98	70
1129	J-Venezia 10	88.52	1	11,444	249.98	70
597	J-187	90.00	0	0	251.75	70
179	J-67	90.00	0	0	251.78	70
1142	J-Mission Rise 1	90.47	0	0	252.32	70
732	J-Venezia 31	89.16	1	6,242	251.02	70
257	J-80	88.00	1	4,162	249.96	70
851	J-Mission Rise 19	88.36	1	10,710	250.33	70
833	J-Mission Rise 13	88.53	1	6,503	250.56	70
803	J-Mission Rise 3	89.89	1	10,710	252.00	70
876	J-The Reserve 14	89.84	0	0	252.00	70
800	J-Mission Rise 2	89.97	1	10,710	252.26	70
1084	J-The Reserve 13	89.69	2	126,225	252.01	70
301	J-85	87.00	0	0	249.35	70
1081	J-The Reserve 12	89.60	1	2,295	252.06	70
883	J-Talichet 14	90.88	1	3,121	253.46	70
173	J-64	89.00	0	0	251.62	70
1078	J-The Reserve 11	89.47	1	2,295	252.13	70
198	J-65	89.00	1	5,202	251.70	70
1189	J-Lake Hills 8	71.00	1	27,158	233.76	70
1075	J-The Reserve 10	89.34	2	132,983	252.20	70

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 3 Off-Line + Fire South 1000

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
1064	J-329	88.47	0	0	251.42	70
712	J-215	86.31	0	0	249.76	71
1059	J-Talichet 13	90.07	1	1,040	253.55	71
994	J-Venezia 22	86.52	1	4,162	250.05	71
1017	J-Venezia 6	86.57	0	0	250.13	71
821	J-Mission Rise 9	87.13	1	6,503	250.73	71
602	J-188	88.00	0	0	251.60	71
936	J-Talichet 5	90.78	1	5,202	254.49	71
621	J-193	85.00	1	1,040	248.72	71
1157	J-330	87.56	0	0	251.34	71
391	J-152	83.00	0	0	246.78	71
393	J-151	83.00	1	6,242	246.78	71
422	J-150	83.00	1	3,121	246.78	71
762	J-234	88.95	0	0	252.74	71
1116	J-Cypress Point 2	70.02	1	21,038	233.85	71
952	J-Venezia 29	85.03	1	5,202	248.91	71
738	J-Venezia 33	87.00	1	6,242	251.02	71
706	J-Venezia 7	86.00	0	0	250.07	71
135	J-34	84.00	1	10,404	248.13	71
873	J-The Reserve 8	86.99	0	0	251.29	71
176	J-75	87.00	0	0	251.65	71
885	J-Talichet 12	88.74	1	2,081	253.61	71
728	J-Venezia 28	84.00	0	0	248.91	71
470	J-122	85.00	0	0	249.96	71
857	J-Mission Rise 21	85.31	1	10,710	250.31	71
893	J-Talichet 7	89.60	1	12,485	254.65	71
854	J-Mission Rise 20	85.00	1	10,710	250.32	72
793	J-Venezia 35	85.52	0	0	251.20	72
432	J-44	90.00	0	0	255.70	72
143	J-71	85.00	0	0	250.73	72
797	J-251	85.79	0	0	251.54	72
365	J-147	81.00	1	3,121	246.79	72
141	J-70	85.00	0	0	250.82	72
181	J-68	86.00	0	0	251.85	72
722	J-Venezia 27	83.00	1	11,444	248.91	72
436	J-45	90.00	0	0	255.95	72
914	J-Talichet 17	87.41	1	5,202	253.56	72
139	J-42	84.00	0	0	250.29	72
790	J-249	85.17	0	0	251.47	72
429	J-43	84.00	1	9,364	250.44	72
1097	J-The Reserve 7	85.00	1	92,565	251.71	72
1095	J-The Reserve 6	85.05	1	92,565	251.95	72
556	J-174	91.00	0	0	257.92	72

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 3 Off-Line + Fire South 1000

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
249	J-121	83.00	1	5,202	249.95	72
718	J-Venezia 11	83.00	1	8,323	249.98	72
1093	J-The Reserve 5	85.01	1	3,825	252.10	72
1091	J-The Reserve 4	85.00	1	3,825	252.23	72
485	J-108	82.00	0	0	249.34	72
1089	J-The Reserve 3	85.01	1	25,628	252.56	72
457	J-125	82.31	1	10,404	249.88	72
754	J-229	82.11	0	0	249.75	73
1012	J-Venezia 9	82.26	1	6,242	249.99	73
1205	J-Venezia TH 4	84.00	1	27,540	251.73	73
887	J-Talichet 11	86.01	1	31,860	253.83	73
264	J-117	82.00	0	0	249.94	73
775	J-The Reserve 1	85.21	0	0	253.19	73
708	J-Venezia 8	82.00	1	2,081	249.99	73
1087	J-The Reserve 2	85.05	1	32,895	253.07	73
585	J-185	90.00	0	0	258.07	73
1032	J-Venezia 17	81.62	1	2,081	249.80	73
756	J-Whispering Hills 1	81.37	0	0	249.72	73
1023	J-Venezia 13	81.45	1	3,121	249.93	73
910	J-Talichet 15	85.00	1	11,444	253.49	73
912	J-Talichet 16	85.00	1	7,283	253.52	73
716	J-Venezia 16	81.00	1	4,162	249.80	73
273	J-113	81.00	0	0	249.94	73
275	J-82	81.00	0	0	249.94	73
759	J-The Reserve 9	86.74	1	8,798	255.74	73
757	J-231	80.71	0	0	249.73	73
999	J-Venezia 14	80.56	1	4,162	249.85	73
889	J-Talichet 10	85.00	1	3,121	254.50	73
419	J-149	77.00	0	0	246.80	73
710	J-Venezia 15	80.00	1	3,121	249.80	73
891	J-Talichet 8	85.00	1	18,727	254.97	74
923	J-Talichet 9	85.00	1	3,121	255.02	74
150	J-74	81.00	1	2,081	251.34	74
926	J-295	85.00	1	3,121	255.52	74
549	J-Mitchell 1	85.00	1	13,525	255.74	74
592	J-186	85.00	1	7,283	255.80	74
363	J-148	76.00	0	0	246.80	74
360	J-138	76.00	1	11,444	246.80	74
409	J-164	75.00	1	12,485	246.78	74
554	J-173	84.00	0	0	255.78	74
259	J-119	78.00	1	11,444	249.95	74
1214	J-Venezia S	79.00	0	0	251.34	75
677	J-WTP1-6	86.25	0	0	258.59	75

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Ex Interconnect - WTP No. 3 Off-Line + Fire South 1000

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
678	J-WTP1-5	86.25	0	0	258.59	75
679	J-WTP1-4	86.25	0	0	258.59	75
231	J-130	77.00	0	0	249.75	75
219	J-Island 1	77.00	1	2,081	249.81	75
769	J-238	85.00	0	0	257.89	75
289	J-84	77.00	0	0	249.94	75
112	J-72	77.00	0	0	250.11	75
280	J-112	77.00	0	0	250.48	75
148	J-73	77.00	0	0	250.56	75
1170	J-369	82.00	0	0	255.74	75
552	J-172	82.00	0	0	255.76	75
227	J-129	75.00	1	20,808	249.74	76
413	J-166	72.00	0	0	246.78	76
327	J-101	71.00	1	13,525	247.59	76
346	J-137	70.00	1	13,525	246.87	77
646	J-200	70.00	0	0	246.98	77
343	J-135	70.00	1	13,525	247.01	77
330	J-100	70.00	1	7,283	247.37	77
519	J-169	69.00	0	0	246.79	77
313	J-103	70.00	1	19,768	248.26	77
417	J-167	68.00	1	8,323	246.78	77
1068	J-Whispering Hills 3	70.72	1	47,813	249.65	77
292	J-110	68.00	0	0	249.90	79
262	J-116	68.00	1	15,606	249.94	79
299	J-107	67.00	1	13,525	249.34	79
411	J-165	64.00	1	5,202	246.65	79
310	J-105	66.00	1	14,566	248.81	79
217	J-124	67.00	0	0	249.95	79
1070	J-Whispering Hills 4	65.00	1	11,858	249.65	80
225	J-Island 3	65.00	1	9,364	249.80	80
296	J-109	64.00	0	0	249.88	80
286	J-111	64.00	1	1,040	249.94	80
271	J-115	64.00	1	9,364	249.94	80
221	J-Island 2	62.00	1	4,162	249.81	81

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Proposed Interconnect

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
1248	J-WTP3-1	140.00	0	0	141.96	1
668	J-WTP1-3	81.00	0	0	82.98	1
666	J-WTP1-2	81.00	0	0	82.98	1
664	J-WTP1-1	81.00	0	0	82.98	1
30	J-WTP2-1	130.00	0	0	208.00	34
869	J-Watermark 5	159.36	1	60,053	244.48	37
68	J-Mission Inn 6	154.00	1	16,646	245.57	40
568	J-Mission Inn 5	154.00	0	0	245.57	40
355	J-140	152.00	0	0	245.51	40
44	J-8	152.00	1	1,040	245.55	40
41	J-6	152.00	0	0	245.56	40
66	J-Mission Inn 10	152.00	0	0	245.57	40
46	J-9	151.00	0	0	245.57	41
74	J-Mission Inn 9	150.00	1	4,162	245.56	41
78	J-Mission Inn 4	150.00	0	0	245.57	41
82	J-Mission Inn 3	149.00	0	0	245.57	42
86	J-Mission Inn 2	149.00	1	15,606	245.57	42
70	J-Mission Inn 7	148.00	1	8,323	245.56	42
48	J-Mission Inn 1	148.00	0	0	245.57	42
764	J-Whispering Hills 2	146.07	0	0	244.49	43
866	J-Watermark 4	145.57	1	9,180	244.48	43
374	J-141	146.00	0	0	245.47	43
72	J-Mission Inn 8	146.00	1	4,162	245.56	43
351	J-94	144.00	0	0	245.55	44
539	J-142	141.00	0	0	245.47	45
1217	J-386	141.00	0	0	245.58	45
1122	J-354	140.00	0	0	245.63	46
1178	J-Lake Hills 1	140.00	0	0	245.77	46
1245	J-WTP3-2	140.00	0	0	245.80	46
863	J-Watermark 3	135.17	1	8,415	244.48	47
1162	J-365	135.00	0	0	244.48	47
50	J-Mission Inn 11	134.00	0	0	245.57	48
640	J-198	131.95	0	0	245.55	49
90	J-Mission Inn 14	131.00	0	0	245.57	50
94	J-Mission Inn 15	130.00	0	0	245.57	50
92	J-23	130.00	0	0	245.57	50
96	J-25	130.00	0	0	245.57	50
114	J-27	129.00	1	15,606	245.57	50
338	J-93	128.00	0	0	245.55	51
33	J-4	128.00	0	0	245.56	51
100	J-26	128.00	1	3,121	245.57	51
442	J-7	128.00	0	0	245.57	51
37	J-5	128.00	0	0	245.57	51
31	J-2	128.00	0	0	245.57	51
35	J-3	128.00	0	0	245.57	51

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Proposed Interconnect

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
1108	J-Drake Point 3	126.24	1	67,320	245.10	51
52	J-Mission Inn 12	125.00	0	0	245.56	52
54	J-Mission Inn 13	124.00	1	37,454	245.55	53
544	J-170	123.00	0	0	245.46	53
502	J-98	122.00	0	0	245.52	53
490	J-102	122.00	0	0	245.53	53
512	J-96	121.00	0	0	245.48	54
104	J-92	121.00	0	0	245.56	54
102	J-38	121.00	0	0	245.57	54
1106	J-Drake Point 2	120.00	1	67,703	245.11	54
495	J-90	120.00	0	0	245.55	54
325	J-89	120.00	0	0	245.55	54
322	J-88	120.00	0	0	245.55	54
643	J-199	119.72	0	0	245.49	54
340	J-97	119.00	1	14,566	245.49	55
348	J-95	118.00	1	17,687	245.48	55
576	J-183	118.00	0	0	245.54	55
860	J-Watermark 2	116.57	1	8,415	244.48	55
377	J-157	117.00	1	12,485	245.45	56
372	J-143	117.00	1	4,162	245.46	56
315	J-104	117.00	0	0	245.51	56
108	J-39	116.00	0	0	245.56	56
110	J-40	116.00	1	11,444	245.56	56
319	J-87	115.00	0	0	245.52	56
332	J-99	113.00	1	10,404	245.50	57
334	J-91	113.00	1	4,162	245.55	57
106	J-37	112.00	1	5,202	245.57	58
357	J-139	107.00	1	15,606	245.47	60
983	J-Venezia 23	105.00	1	12,485	244.50	60
306	J-106	106.00	0	0	245.51	60
978	J-Venezia 18	105.00	1	10,404	244.55	60
897	J-Talichet 1	104.83	0	0	245.31	61
447	J-36	105.00	0	0	245.58	61
612	J-190	104.74	0	0	245.37	61
616	J-191	104.64	1	10,404	245.38	61
529	J-156	104.00	0	0	245.45	61
534	J-144	104.00	0	0	245.46	61
169	J-63	104.00	1	12,485	245.51	61
121	J-32	104.00	1	20,808	245.58	61
123	J-35	104.00	1	12,485	245.58	61
973	J-Venezia 19	102.41	1	11,444	244.55	61
369	J-145	103.00	1	3,121	245.46	62
304	J-86	103.00	1	3,121	245.52	62
786	J-248	102.22	0	0	245.49	62
215	J-77	102.00	0	0	245.35	62

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Proposed Interconnect

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
382	J-158	102.00	1	12,485	245.45	62
507	J-136	102.00	0	0	245.49	62
165	J-60	102.00	1	11,444	245.49	62
167	J-61	102.00	0	0	245.49	62
772	J-240	100.95	0	0	244.48	62
1148	J-Watermark 1	100.95	0	0	244.48	62
1110	J-Lake Hills 12	101.23	0	0	245.47	62
809	J-Mission Rise 5	100.08	1	11,093	244.39	62
566	J-62	101.00	0	0	245.49	63
773	J-Venezia 1	100.12	0	0	244.81	63
1053	J-Venezia 2	100.09	0	0	244.78	63
211	J-56	100.22	0	0	245.46	63
635	J-197	100.00	0	0	245.35	63
156	J-54	100.06	1	2,081	245.47	63
379	J-155	100.00	1	8,323	245.45	63
201	J-52	100.00	0	0	245.56	63
203	J-51	100.00	1	2,081	245.56	63
213	J-Venezia 3	99.00	0	0	244.72	63
812	J-Mission Rise 6	98.40	1	11,093	244.35	63
895	J-Talichet 2	99.21	0	0	245.31	63
968	J-Venezia 20	97.78	1	11,444	244.54	63
815	J-Mission Rise 7	97.32	1	11,093	244.31	64
848	J-Mission Rise 18	97.08	1	10,710	244.37	64
839	J-Mission Rise 15	96.89	1	10,710	244.32	64
702	J-Venezia 4	97.00	1	32,513	244.67	64
842	J-Mission Rise 16	96.14	1	10,710	244.32	64
688	J-209	97.00	1	5,202	245.47	64
158	J-53	97.00	1	13,525	245.49	64
192	J-50	96.50	1	1,040	245.59	65
1133	J-Venezia 24	95.33	1	16,646	244.51	65
239	J-132	95.00	0	0	244.49	65
235	J-131	95.00	0	0	244.49	65
154	J-58	96.00	1	1,040	245.49	65
629	J-196	96.00	1	13,525	245.49	65
957	J-Venezia 25	95.00	1	10,404	244.51	65
1168	J-Venezia TH 1	95.00	0	0	244.70	65
934	J-Talichet 6	95.60	1	3,121	245.31	65
881	J-Talichet II 1	94.95	1	5,738	244.78	65
806	J-Mission Rise 4	94.43	1	11,093	244.44	65
818	J-Mission Rise 8	94.12	1	11,093	244.24	65
930	J-Talichet 3	95.16	1	6,242	245.31	65
824	J-Mission Rise 10	94.09	1	6,503	244.25	65
827	J-Mission Rise 11	94.06	1	6,503	244.26	65
932	J-Talichet 4	95.07	1	3,121	245.31	65
465	J-78	95.00	0	0	245.35	65

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Proposed Interconnect

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
524	J-154	95.00	0	0	245.45	65
607	J-189	95.00	0	0	245.49	65
186	J-49	95.08	1	1,040	245.67	65
1166	J-Venezia TH 2	94.00	1	6,885	244.67	65
1043	J-324	95.01	0	0	245.76	65
1041	J-323	94.88	0	0	245.77	65
255	J-79	94.00	1	4,162	245.35	65
704	J-Venezia 5	93.00	0	0	244.57	66
1100	J-Golden Hills 1	92.58	1	232,178	244.21	66
963	J-Venezia 21	92.72	1	13,525	244.54	66
251	J-123	93.00	0	0	245.35	66
386	J-153	93.00	1	6,242	245.45	66
388	J-159	93.00	0	0	245.45	66
367	J-146	93.00	1	3,121	245.45	66
581	J-184	93.00	0	0	245.52	66
194	J-66	93.00	1	3,121	245.57	66
879	J-Talichet II 2	92.00	1	2,295	244.77	66
776	J-Cedar Creek 1	91.69	1	65,408	244.55	66
1112	J-Thompson Grove 1	92.46	1	104,040	245.45	66
1102	J-Lake Hills 11	92.23	0	0	245.41	66
1195	J-Lake Hills 10	92.00	1	27,158	245.40	66
116	J-28	92.00	0	0	245.58	66
119	J-29	92.00	1	12,485	245.58	66
1203	J-Venezia TH 3	91.00	1	8,798	244.64	66
730	J-Venezia 30	90.81	0	0	244.54	67
1138	J-Venezia 32	90.74	1	4,162	244.56	67
845	J-Mission Rise 17	90.35	1	10,710	244.34	67
883	J-Talichet 14	90.88	1	3,121	244.90	67
1142	J-Mission Rise 1	90.47	0	0	244.57	67
836	J-Mission Rise 14	90.07	1	6,503	244.30	67
724	J-220	90.23	0	0	244.49	67
1035	J-Venezia 34	90.25	1	2,081	244.56	67
475	J-120	91.00	0	0	245.37	67
404	J-162	91.00	0	0	245.44	67
245	J-134	90.00	1	10,404	244.48	67
241	J-133	90.00	0	0	244.48	67
720	J-Venezia 26	90.00	1	5,202	244.51	67
1152	J-Mission Rise 22	89.96	0	0	244.48	67
936	J-Talichet 5	90.78	1	5,202	245.31	67
152	J-76	91.00	1	8,323	245.55	67
800	J-Mission Rise 2	89.97	1	10,710	244.55	67
803	J-Mission Rise 3	89.89	1	10,710	244.49	67
133	J-33	91.00	0	0	245.64	67
876	J-The Reserve 14	89.84	0	0	244.66	67
1059	J-Talichet 13	90.07	1	1,040	244.92	67

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Proposed Interconnect

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
830	J-Mission Rise 12	89.37	1	6,503	244.27	67
1084	J-The Reserve 13	89.69	2	126,225	244.63	67
1081	J-The Reserve 12	89.60	1	2,295	244.63	67
556	J-174	91.00	0	0	246.15	67
1078	J-The Reserve 11	89.47	1	2,295	244.63	67
1075	J-The Reserve 10	89.34	2	132,983	244.63	67
732	J-Venezia 31	89.16	1	6,242	244.56	67
480	J-118	90.00	0	0	245.41	67
268	J-81	90.00	1	4,162	245.41	67
400	J-160	90.00	1	16,646	245.44	67
597	J-187	90.00	0	0	245.57	67
179	J-67	90.00	0	0	245.57	67
893	J-Talichet 7	89.60	1	12,485	245.33	67
833	J-Mission Rise 13	88.53	1	6,503	244.28	67
432	J-44	90.00	0	0	245.76	67
436	J-45	90.00	0	0	245.77	67
762	J-234	88.95	0	0	244.74	67
1004	J-Venezia 12	88.68	1	4,162	244.49	67
1129	J-Venezia 10	88.52	1	11,444	244.49	67
851	J-Mission Rise 19	88.36	1	10,710	244.39	68
1064	J-329	88.47	0	0	244.59	68
585	J-185	90.00	0	0	246.19	68
885	J-Talichet 12	88.74	1	2,081	244.94	68
624	J-194	88.00	1	3,121	244.49	68
173	J-64	89.00	0	0	245.55	68
198	J-65	89.00	1	5,202	245.56	68
452	J-41	89.00	1	5,202	245.65	68
1157	J-330	87.56	0	0	244.58	68
821	J-Mission Rise 9	87.13	1	6,503	244.25	68
257	J-80	88.00	1	4,162	245.38	68
407	J-163	88.00	1	3,121	245.44	68
914	J-Talichet 17	87.41	1	5,202	244.92	68
602	J-188	88.00	0	0	245.55	68
738	J-Venezia 33	87.00	1	6,242	244.56	68
873	J-The Reserve 8	86.99	0	0	244.57	68
126	J-30	88.00	0	0	245.59	68
130	J-31	88.00	0	0	245.60	68
1017	J-Venezia 6	86.57	0	0	244.51	68
994	J-Venezia 22	86.52	1	4,162	244.51	68
712	J-215	86.31	0	0	244.49	68
1119	J-Westminster 1	87.02	1	133,875	245.42	69
402	J-161	87.00	0	0	245.44	69
426	J-168	87.00	0	0	245.44	69
706	J-Venezia 7	86.00	0	0	244.51	69
301	J-85	87.00	0	0	245.52	69

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Proposed Interconnect

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
176	J-75	87.00	0	0	245.57	69
759	J-The Reserve 9	86.74	1	8,798	245.50	69
797	J-251	85.79	0	0	244.61	69
887	J-Talichet 11	86.01	1	31,860	245.00	69
793	J-Venezia 35	85.52	0	0	244.58	69
857	J-Mission Rise 21	85.31	1	10,710	244.44	69
854	J-Mission Rise 20	85.00	1	10,710	244.41	69
790	J-249	85.17	0	0	244.60	69
952	J-Venezia 29	85.03	1	5,202	244.49	69
621	J-193	85.00	1	1,040	244.49	69
1095	J-The Reserve 6	85.05	1	92,565	244.61	69
1097	J-The Reserve 7	85.00	1	92,565	244.58	69
181	J-68	86.00	0	0	245.59	69
1093	J-The Reserve 5	85.01	1	3,825	244.64	69
775	J-The Reserve 1	85.21	0	0	244.86	69
1091	J-The Reserve 4	85.00	1	3,825	244.66	69
1089	J-The Reserve 3	85.01	1	25,628	244.72	69
1087	J-The Reserve 2	85.05	1	32,895	244.83	69
910	J-Talichet 15	85.00	1	11,444	244.91	69
912	J-Talichet 16	85.00	1	7,283	244.91	69
677	J-WTP1-6	86.25	0	0	246.31	69
678	J-WTP1-5	86.25	0	0	246.31	69
679	J-WTP1-4	86.25	0	0	246.31	69
889	J-Talichet 10	85.00	1	3,121	245.20	69
470	J-122	85.00	0	0	245.34	69
891	J-Talichet 8	85.00	1	18,727	245.36	69
923	J-Talichet 9	85.00	1	3,121	245.37	69
728	J-Venezia 28	84.00	0	0	244.49	69
926	J-295	85.00	1	3,121	245.49	69
549	J-Mitchell 1	85.00	1	13,525	245.50	69
592	J-186	85.00	1	7,283	245.55	69
1205	J-Venezia TH 4	84.00	1	27,540	244.64	70
143	J-71	85.00	0	0	245.68	70
141	J-70	85.00	0	0	245.70	70
769	J-238	85.00	0	0	246.14	70
1183	J-Lake Hills 3	84.00	1	27,540	245.45	70
722	J-Venezia 27	83.00	1	11,444	244.49	70
718	J-Venezia 11	83.00	1	8,323	244.49	70
554	J-173	84.00	0	0	245.54	70
135	J-34	84.00	1	10,404	245.60	70
429	J-43	84.00	1	9,364	245.66	70
139	J-42	84.00	0	0	245.67	70
1012	J-Venezia 9	82.26	1	6,242	244.50	70
249	J-121	83.00	1	5,202	245.34	70
754	J-229	82.11	0	0	244.49	70

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Proposed Interconnect

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
422	J-150	83.00	1	3,121	245.44	70
393	J-151	83.00	1	6,242	245.44	70
391	J-152	83.00	0	0	245.44	70
708	J-Venezia 8	82.00	1	2,081	244.50	70
457	J-125	82.31	1	10,404	245.12	70
1032	J-Venezia 17	81.62	1	2,081	244.49	70
1023	J-Venezia 13	81.45	1	3,121	244.50	71
756	J-Whispering Hills 1	81.37	0	0	244.49	71
1184	J-Lake Hills 4	82.00	1	27,540	245.41	71
264	J-117	82.00	0	0	245.41	71
716	J-Venezia 16	81.00	1	4,162	244.49	71
1170	J-369	82.00	0	0	245.50	71
485	J-108	82.00	0	0	245.51	71
552	J-172	82.00	0	0	245.52	71
757	J-231	80.71	0	0	244.50	71
999	J-Venezia 14	80.56	1	4,162	244.49	71
365	J-147	81.00	1	3,121	245.45	71
273	J-113	81.00	0	0	245.46	71
275	J-82	81.00	0	0	245.47	71
1177	J-Lake Hills 2	81.00	2	169,575	245.47	71
710	J-Venezia 15	80.00	1	3,121	244.49	71
150	J-74	81.00	1	2,081	245.56	71
1188	J-Lake Hills 6	80.00	1	27,158	245.39	72
1214	J-Venezia S	79.00	0	0	244.58	72
1192	J-Lake Hills 7	79.00	1	27,158	245.39	72
259	J-119	78.00	1	11,444	245.37	72
231	J-130	77.00	0	0	244.49	72
219	J-Island 1	77.00	1	2,081	244.94	73
419	J-149	77.00	0	0	245.45	73
289	J-84	77.00	0	0	245.52	73
280	J-112	77.00	0	0	245.55	73
112	J-72	77.00	0	0	245.56	73
148	J-73	77.00	0	0	245.56	73
1196	J-Lake Hills 9	76.00	1	27,540	245.40	73
363	J-148	76.00	0	0	245.45	73
360	J-138	76.00	1	11,444	245.45	73
227	J-129	75.00	1	20,808	244.65	73
1104	J-Drake Point 1	75.00	1	67,703	245.14	74
1187	J-Lake Hills 5	75.00	1	27,158	245.40	74
409	J-164	75.00	1	12,485	245.44	74
1114	J-Cypress Point 1	73.64	1	21,038	245.42	74
413	J-166	72.00	0	0	245.44	75
1068	J-Whispering Hills 3	70.72	1	47,813	244.47	75
1189	J-Lake Hills 8	71.00	1	27,158	245.39	75
327	J-101	71.00	1	13,525	245.50	75

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Proposed Interconnect

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
1116	J-Cypress Point 2	70.02	1	21,038	245.42	76
346	J-137	70.00	1	13,525	245.47	76
646	J-200	70.00	0	0	245.48	76
343	J-135	70.00	1	13,525	245.48	76
330	J-100	70.00	1	7,283	245.50	76
313	J-103	70.00	1	19,768	245.50	76
519	J-169	69.00	0	0	245.45	76
262	J-116	68.00	1	15,606	245.41	77
417	J-167	68.00	1	8,323	245.44	77
292	J-110	68.00	0	0	245.51	77
217	J-124	67.00	0	0	245.29	77
299	J-107	67.00	1	13,525	245.50	77
1070	J-Whispering Hills 4	65.00	1	11,858	244.47	78
310	J-105	66.00	1	14,566	245.50	78
225	J-Island 3	65.00	1	9,364	244.93	78
411	J-165	64.00	1	5,202	245.31	78
271	J-115	64.00	1	9,364	245.46	79
286	J-111	64.00	1	1,040	245.50	79
296	J-109	64.00	0	0	245.51	79
221	J-Island 2	62.00	1	4,162	244.93	79

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - Existing Conditions

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
668	J-WTP1-3	81.00	0	0	83.00	1
666	J-WTP1-2	81.00	0	0	83.00	1
664	J-WTP1-1	81.00	0	0	83.00	1
1248	J-WTP3-1	140.00	0	0	142.00	1
30	J-WTP2-1	130.00	0	0	208.00	34
869	J-Watermark 5	159.36	0	0	245.21	37
68	J-Mission Inn 6	154.00	1	16,646	245.56	40
568	J-Mission Inn 5	154.00	0	0	245.56	40
355	J-140	152.00	0	0	245.51	40
44	J-8	152.00	1	1,040	245.56	40
41	J-6	152.00	0	0	245.56	40
66	J-Mission Inn 10	152.00	0	0	245.56	40
46	J-9	151.00	0	0	245.57	41
74	J-Mission Inn 9	150.00	1	4,162	245.56	41
78	J-Mission Inn 4	150.00	0	0	245.56	41
82	J-Mission Inn 3	149.00	0	0	245.56	42
86	J-Mission Inn 2	149.00	1	15,606	245.56	42
70	J-Mission Inn 7	148.00	1	8,323	245.56	42
48	J-Mission Inn 1	148.00	0	0	245.57	42
764	J-Whispering Hills 2	146.07	0	0	245.18	43
374	J-141	146.00	0	0	245.48	43
72	J-Mission Inn 8	146.00	1	4,162	245.56	43
866	J-Watermark 4	145.57	0	0	245.24	43
351	J-94	144.00	0	0	245.55	44
539	J-142	141.00	0	0	245.47	45
1217	J-386	141.00	0	0	245.57	45
1122	J-354	140.00	0	0	245.61	46
1178	J-Lake Hills 1	140.00	0	0	245.62	46
1245	J-WTP3-2	140.00	0	0	245.62	46
863	J-Watermark 3	135.17	0	0	245.26	48
1162	J-365	135.00	0	0	245.19	48
50	J-Mission Inn 11	134.00	0	0	245.57	48
640	J-198	131.95	0	0	245.55	49
90	J-Mission Inn 14	131.00	0	0	245.57	50
94	J-Mission Inn 15	130.00	0	0	245.57	50
92	J-23	130.00	0	0	245.57	50
96	J-25	130.00	0	0	245.57	50
114	J-27	129.00	1	15,606	245.57	50
338	J-93	128.00	0	0	245.55	51
100	J-26	128.00	1	3,121	245.57	51
442	J-7	128.00	0	0	245.60	51
37	J-5	128.00	0	0	245.61	51
31	J-2	128.00	0	0	245.61	51
35	J-3	128.00	0	0	245.61	51
33	J-4	128.00	0	0	245.61	51

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - Existing Conditions

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
1108	J-Drake Point 3	126.24	0	0	245.61	52
52	J-Mission Inn 12	125.00	0	0	245.55	52
54	J-Mission Inn 13	124.00	1	37,454	245.55	53
544	J-170	123.00	0	0	245.46	53
502	J-98	122.00	0	0	245.52	53
490	J-102	122.00	0	0	245.53	53
512	J-96	121.00	0	0	245.49	54
104	J-92	121.00	0	0	245.56	54
102	J-38	121.00	0	0	245.57	54
495	J-90	120.00	0	0	245.55	54
325	J-89	120.00	0	0	245.55	54
322	J-88	120.00	0	0	245.55	54
1106	J-Drake Point 2	120.00	0	0	245.61	54
643	J-199	119.72	0	0	245.49	54
340	J-97	119.00	1	14,566	245.50	55
348	J-95	118.00	1	17,687	245.48	55
576	J-183	118.00	0	0	245.55	55
377	J-157	117.00	1	12,485	245.46	56
372	J-143	117.00	1	4,162	245.46	56
315	J-104	117.00	0	0	245.52	56
860	J-Watermark 2	116.57	0	0	245.28	56
108	J-39	116.00	0	0	245.56	56
110	J-40	116.00	1	11,444	245.56	56
319	J-87	115.00	0	0	245.53	56
332	J-99	113.00	1	10,404	245.50	57
334	J-91	113.00	1	4,162	245.55	57
106	J-37	112.00	1	5,202	245.57	58
357	J-139	107.00	1	15,606	245.47	60
306	J-106	106.00	0	0	245.52	60
983	J-Venezia 23	105.00	1	12,485	245.17	61
978	J-Venezia 18	105.00	1	10,404	245.23	61
447	J-36	105.00	0	0	245.58	61
612	J-190	104.74	0	0	245.44	61
616	J-191	104.64	1	10,404	245.45	61
897	J-Talichet 1	104.83	0	0	245.67	61
529	J-156	104.00	0	0	245.45	61
534	J-144	104.00	0	0	245.46	61
169	J-63	104.00	1	12,485	245.52	61
121	J-32	104.00	1	20,808	245.58	61
123	J-35	104.00	1	12,485	245.58	61
369	J-145	103.00	1	3,121	245.46	62
304	J-86	103.00	1	3,121	245.53	62
973	J-Venezia 19	102.41	1	11,444	245.21	62
786	J-248	102.22	0	0	245.51	62
215	J-77	102.00	0	0	245.43	62

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - Existing Conditions

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
382	J-158	102.00	1	12,485	245.45	62
507	J-136	102.00	0	0	245.49	62
165	J-60	102.00	1	11,444	245.51	62
167	J-61	102.00	0	0	245.51	62
772	J-240	100.95	0	0	245.31	62
1148	J-Watermark 1	100.95	0	0	245.31	62
1110	J-Lake Hills 12	101.23	0	0	245.62	62
566	J-62	101.00	0	0	245.51	63
211	J-56	100.22	0	0	245.49	63
635	J-197	100.00	0	0	245.43	63
156	J-54	100.06	1	2,081	245.49	63
379	J-155	100.00	1	8,323	245.45	63
773	J-Venezia 1	100.12	0	0	245.59	63
1053	J-Venezia 2	100.09	0	0	245.55	63
201	J-52	100.00	0	0	245.56	63
203	J-51	100.00	1	2,081	245.56	63
809	J-Mission Rise 5	100.08	0	0	245.66	63
895	J-Talichet 2	99.21	0	0	245.67	63
213	J-Venezia 3	99.00	0	0	245.49	63
812	J-Mission Rise 6	98.40	0	0	245.64	64
968	J-Venezia 20	97.78	1	11,444	245.18	64
815	J-Mission Rise 7	97.32	0	0	245.63	64
848	J-Mission Rise 18	97.08	0	0	245.41	64
702	J-Venezia 4	97.00	1	32,513	245.44	64
688	J-209	97.00	1	5,202	245.50	64
158	J-53	97.00	1	13,525	245.51	64
839	J-Mission Rise 15	96.89	0	0	245.47	64
192	J-50	96.50	1	1,040	245.59	65
842	J-Mission Rise 16	96.14	0	0	245.45	65
154	J-58	96.00	1	1,040	245.51	65
629	J-196	96.00	1	13,525	245.51	65
1133	J-Venezia 24	95.33	1	16,646	245.17	65
934	J-Talichet 6	95.60	1	3,121	245.67	65
239	J-132	95.00	0	0	245.16	65
235	J-131	95.00	0	0	245.16	65
957	J-Venezia 25	95.00	1	10,404	245.17	65
465	J-78	95.00	0	0	245.44	65
524	J-154	95.00	0	0	245.45	65
1168	J-Venezia TH 1	95.00	0	0	245.48	65
607	J-189	95.00	0	0	245.51	65
930	J-Talichet 3	95.16	1	6,242	245.67	65
186	J-49	95.08	1	1,040	245.66	65
932	J-Talichet 4	95.07	1	3,121	245.67	65
881	J-Talichet II 1	94.95	0	0	245.67	65
1043	J-324	95.01	0	0	245.73	65

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - Existing Conditions

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
1041	J-323	94.88	0	0	245.74	65
806	J-Mission Rise 4	94.43	0	0	245.68	65
255	J-79	94.00	1	4,162	245.44	66
1166	J-Venezia TH 2	94.00	0	0	245.45	66
824	J-Mission Rise 10	94.09	0	0	245.57	66
827	J-Mission Rise 11	94.06	0	0	245.55	66
818	J-Mission Rise 8	94.12	0	0	245.61	66
704	J-Venezia 5	93.00	0	0	245.26	66
251	J-123	93.00	0	0	245.43	66
963	J-Venezia 21	92.72	1	13,525	245.17	66
386	J-153	93.00	1	6,242	245.45	66
388	J-159	93.00	0	0	245.45	66
367	J-146	93.00	1	3,121	245.45	66
581	J-184	93.00	0	0	245.53	66
194	J-66	93.00	1	3,121	245.57	66
1100	J-Golden Hills 1	92.58	0	0	245.61	66
1112	J-Thompson Grove 1	92.46	0	0	245.62	66
1102	J-Lake Hills 11	92.23	0	0	245.61	66
116	J-28	92.00	0	0	245.57	66
119	J-29	92.00	1	12,485	245.57	66
1195	J-Lake Hills 10	92.00	0	0	245.61	66
879	J-Talichet II 2	92.00	0	0	245.67	66
776	J-Cedar Creek 1	91.69	0	0	245.74	67
730	J-Venezia 30	90.81	0	0	245.17	67
1138	J-Venezia 32	90.74	1	4,162	245.17	67
475	J-120	91.00	0	0	245.44	67
404	J-162	91.00	0	0	245.45	67
1203	J-Venezia TH 3	91.00	0	0	245.45	67
152	J-76	91.00	1	8,323	245.56	67
133	J-33	91.00	0	0	245.63	67
883	J-Talichet 14	90.88	1	3,121	245.67	67
936	J-Talichet 5	90.78	1	5,202	245.67	67
1035	J-Venezia 34	90.25	1	2,081	245.17	67
556	J-174	91.00	0	0	245.91	67
724	J-220	90.23	0	0	245.16	67
845	J-Mission Rise 17	90.35	0	0	245.43	67
245	J-134	90.00	1	10,404	245.16	67
241	J-133	90.00	0	0	245.16	67
720	J-Venezia 26	90.00	1	5,202	245.17	67
1142	J-Mission Rise 1	90.47	0	0	245.74	67
1152	J-Mission Rise 22	89.96	0	0	245.33	67
836	J-Mission Rise 14	90.07	0	0	245.49	67
400	J-160	90.00	1	16,646	245.45	67
480	J-118	90.00	0	0	245.46	67
268	J-81	90.00	1	4,162	245.46	67

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - Existing Conditions

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
597	J-187	90.00	0	0	245.57	67
179	J-67	90.00	0	0	245.58	67
1059	J-Talichet 13	90.07	1	1,040	245.67	67
876	J-The Reserve 14	89.84	0	0	245.47	67
432	J-44	90.00	0	0	245.74	67
436	J-45	90.00	0	0	245.74	67
800	J-Mission Rise 2	89.97	0	0	245.72	67
803	J-Mission Rise 3	89.89	0	0	245.70	67
1084	J-The Reserve 13	89.69	0	0	245.51	67
585	J-185	90.00	0	0	245.92	67
1081	J-The Reserve 12	89.60	0	0	245.55	67
732	J-Venezia 31	89.16	1	6,242	245.17	67
893	J-Talichet 7	89.60	1	12,485	245.68	68
1078	J-The Reserve 11	89.47	0	0	245.59	68
830	J-Mission Rise 12	89.37	0	0	245.53	68
1075	J-The Reserve 10	89.34	0	0	245.63	68
1004	J-Venezia 12	88.68	1	4,162	245.17	68
173	J-64	89.00	0	0	245.56	68
198	J-65	89.00	1	5,202	245.56	68
452	J-41	89.00	1	5,202	245.64	68
1129	J-Venezia 10	88.52	1	11,444	245.17	68
762	J-234	88.95	0	0	245.67	68
1064	J-329	88.47	0	0	245.22	68
885	J-Talichet 12	88.74	1	2,081	245.67	68
833	J-Mission Rise 13	88.53	0	0	245.51	68
851	J-Mission Rise 19	88.36	0	0	245.39	68
624	J-194	88.00	1	3,121	245.17	68
257	J-80	88.00	1	4,162	245.45	68
407	J-163	88.00	1	3,121	245.45	68
602	J-188	88.00	0	0	245.55	68
126	J-30	88.00	0	0	245.58	68
130	J-31	88.00	0	0	245.59	68
1157	J-330	87.56	0	0	245.28	68
738	J-Venezia 33	87.00	1	6,242	245.17	68
914	J-Talichet 17	87.41	1	5,202	245.67	68
873	J-The Reserve 8	86.99	0	0	245.34	69
402	J-161	87.00	0	0	245.45	69
426	J-168	87.00	0	0	245.45	69
821	J-Mission Rise 9	87.13	0	0	245.59	69
301	J-85	87.00	0	0	245.53	69
176	J-75	87.00	0	0	245.57	69
1119	J-Westminster 1	87.02	0	0	245.62	69
1017	J-Venezia 6	86.57	0	0	245.19	69
994	J-Venezia 22	86.52	1	4,162	245.18	69
712	J-215	86.31	0	0	245.18	69

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - Existing Conditions

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
759	J-The Reserve 9	86.74	0	0	245.73	69
706	J-Venezia 7	86.00	0	0	245.19	69
797	J-251	85.79	0	0	245.32	69
181	J-68	86.00	0	0	245.59	69
793	J-Venezia 35	85.52	0	0	245.17	69
887	J-Talichet 11	86.01	1	31,860	245.67	69
677	J-WTP1-6	86.25	0	0	245.95	69
678	J-WTP1-5	86.25	0	0	245.95	69
679	J-WTP1-4	86.25	0	0	245.95	69
790	J-249	85.17	0	0	245.17	69
857	J-Mission Rise 21	85.31	0	0	245.35	69
952	J-Venezia 29	85.03	1	5,202	245.16	69
621	J-193	85.00	1	1,040	245.16	69
854	J-Mission Rise 20	85.00	0	0	245.37	69
1097	J-The Reserve 7	85.00	0	0	245.40	69
1095	J-The Reserve 6	85.05	0	0	245.46	69
470	J-122	85.00	0	0	245.43	69
1093	J-The Reserve 5	85.01	0	0	245.52	69
775	J-The Reserve 1	85.21	0	0	245.76	69
1091	J-The Reserve 4	85.00	0	0	245.58	69
1089	J-The Reserve 3	85.01	0	0	245.64	69
1087	J-The Reserve 2	85.05	0	0	245.70	70
910	J-Talichet 15	85.00	1	11,444	245.67	70
912	J-Talichet 16	85.00	1	7,283	245.67	70
143	J-71	85.00	0	0	245.67	70
141	J-70	85.00	0	0	245.68	70
889	J-Talichet 10	85.00	1	3,121	245.69	70
891	J-Talichet 8	85.00	1	18,727	245.70	70
923	J-Talichet 9	85.00	1	3,121	245.71	70
549	J-Mitchell 1	85.00	1	13,525	245.73	70
926	J-295	85.00	1	3,121	245.74	70
592	J-186	85.00	1	7,283	245.75	70
769	J-238	85.00	0	0	245.84	70
728	J-Venezia 28	84.00	0	0	245.16	70
1205	J-Venezia TH 4	84.00	0	0	245.45	70
135	J-34	84.00	1	10,404	245.60	70
1183	J-Lake Hills 3	84.00	0	0	245.62	70
429	J-43	84.00	1	9,364	245.64	70
139	J-42	84.00	0	0	245.66	70
554	J-173	84.00	0	0	245.75	70
722	J-Venezia 27	83.00	1	11,444	245.16	70
718	J-Venezia 11	83.00	1	8,323	245.17	70
249	J-121	83.00	1	5,202	245.43	70
422	J-150	83.00	1	3,121	245.45	70
393	J-151	83.00	1	6,242	245.45	70

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - Existing Conditions

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
391	J-152	83.00	0	0	245.45	70
1012	J-Venezia 9	82.26	1	6,242	245.18	70
457	J-125	82.31	1	10,404	245.34	71
754	J-229	82.11	0	0	245.18	71
708	J-Venezia 8	82.00	1	2,081	245.18	71
264	J-117	82.00	0	0	245.46	71
485	J-108	82.00	0	0	245.52	71
1032	J-Venezia 17	81.62	1	2,081	245.18	71
1184	J-Lake Hills 4	82.00	0	0	245.62	71
1170	J-369	82.00	0	0	245.73	71
1023	J-Venezia 13	81.45	1	3,121	245.18	71
552	J-172	82.00	0	0	245.74	71
756	J-Whispering Hills 1	81.37	0	0	245.18	71
716	J-Venezia 16	81.00	1	4,162	245.18	71
365	J-147	81.00	1	3,121	245.45	71
757	J-231	80.71	0	0	245.18	71
273	J-113	81.00	0	0	245.50	71
275	J-82	81.00	0	0	245.50	71
150	J-74	81.00	1	2,081	245.56	71
999	J-Venezia 14	80.56	1	4,162	245.18	71
1177	J-Lake Hills 2	81.00	0	0	245.62	71
710	J-Venezia 15	80.00	1	3,121	245.18	71
1188	J-Lake Hills 6	80.00	0	0	245.62	72
1214	J-Venezia S	79.00	0	0	245.28	72
1192	J-Lake Hills 7	79.00	0	0	245.62	72
259	J-119	78.00	1	11,444	245.44	72
231	J-130	77.00	0	0	245.18	73
219	J-Island 1	77.00	1	2,081	245.27	73
419	J-149	77.00	0	0	245.45	73
289	J-84	77.00	0	0	245.54	73
280	J-112	77.00	0	0	245.56	73
112	J-72	77.00	0	0	245.56	73
148	J-73	77.00	0	0	245.56	73
363	J-148	76.00	0	0	245.46	73
360	J-138	76.00	1	11,444	245.46	73
1196	J-Lake Hills 9	76.00	0	0	245.61	73
227	J-129	75.00	1	20,808	245.20	74
409	J-164	75.00	1	12,485	245.44	74
1104	J-Drake Point 1	75.00	0	0	245.61	74
1187	J-Lake Hills 5	75.00	0	0	245.62	74
1114	J-Cypress Point 1	73.64	0	0	245.62	74
413	J-166	72.00	0	0	245.45	75
1068	J-Whispering Hills 3	70.72	0	0	245.18	75
327	J-101	71.00	1	13,525	245.50	76
1189	J-Lake Hills 8	71.00	0	0	245.61	76

**Howey In The Hills Water System
FlexTable: Junction Table**

Active Scenario: Max Day - Pro Interconnect - Existing Conditions

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
346	J-137	70.00	1	13,525	245.48	76
646	J-200	70.00	0	0	245.49	76
343	J-135	70.00	1	13,525	245.49	76
330	J-100	70.00	1	7,283	245.50	76
313	J-103	70.00	1	19,768	245.51	76
1116	J-Cypress Point 2	70.02	0	0	245.62	76
519	J-169	69.00	0	0	245.45	76
417	J-167	68.00	1	8,323	245.45	77
262	J-116	68.00	1	15,606	245.46	77
292	J-110	68.00	0	0	245.53	77
217	J-124	67.00	0	0	245.41	77
299	J-107	67.00	1	13,525	245.52	77
310	J-105	66.00	1	14,566	245.51	78
1070	J-Whispering Hills 4	65.00	0	0	245.18	78
225	J-Island 3	65.00	1	9,364	245.26	78
411	J-165	64.00	1	5,202	245.32	78
271	J-115	64.00	1	9,364	245.49	79
286	J-111	64.00	1	1,040	245.52	79
296	J-109	64.00	0	0	245.52	79
221	J-Island 2	62.00	1	4,162	245.27	79

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
1248	J-WTP3-1	140.00	0	0	141.73	1
668	J-WTP1-3	81.00	0	0	82.98	1
666	J-WTP1-2	81.00	0	0	82.98	1
664	J-WTP1-1	81.00	0	0	82.98	1
30	J-WTP2-1	130.00	0	0	208.00	34
869	J-Watermark 5	159.36	1	60,053	244.53	37
68	J-Mission Inn 6	154.00	2	2,176,646	240.75	38
568	J-Mission Inn 5	154.00	0	0	242.09	38
66	J-Mission Inn 10	152.00	0	0	242.01	39
74	J-Mission Inn 9	150.00	1	4,162	240.75	39
70	J-Mission Inn 7	148.00	1	8,323	240.75	40
355	J-140	152.00	0	0	245.63	41
44	J-8	152.00	1	1,040	245.72	41
78	J-Mission Inn 4	150.00	0	0	243.72	41
41	J-6	152.00	0	0	245.74	41
46	J-9	151.00	0	0	245.64	41
72	J-Mission Inn 8	146.00	1	4,162	240.75	41
82	J-Mission Inn 3	149.00	0	0	243.78	41
86	J-Mission Inn 2	149.00	1	15,606	243.95	41
48	J-Mission Inn 1	148.00	0	0	245.58	42
764	J-Whispering Hills 2	146.07	0	0	244.54	43
866	J-Watermark 4	145.57	1	9,180	244.53	43
374	J-141	146.00	0	0	245.57	43
351	J-94	144.00	0	0	245.63	44
539	J-142	141.00	0	0	245.56	45
1217	J-386	141.00	0	0	245.82	45
863	J-Watermark 3	135.17	1	8,415	244.53	47
1162	J-365	135.00	0	0	244.53	47
1122	J-354	140.00	0	0	250.12	48
50	J-Mission Inn 11	134.00	0	0	244.29	48
1178	J-Lake Hills 1	140.00	0	0	251.40	48
1245	J-WTP3-2	140.00	0	0	251.65	48
640	J-198	131.95	0	0	245.59	49
90	J-Mission Inn 14	131.00	0	0	245.41	50
94	J-Mission Inn 15	130.00	0	0	245.48	50
92	J-23	130.00	0	0	245.57	50
96	J-25	130.00	0	0	245.57	50
114	J-27	129.00	1	15,606	245.57	50
100	J-26	128.00	1	3,121	245.57	51
338	J-93	128.00	0	0	245.58	51
52	J-Mission Inn 12	125.00	0	0	244.28	52
54	J-Mission Inn 13	124.00	1	37,454	244.27	52
442	J-7	128.00	0	0	249.53	53
37	J-5	128.00	0	0	249.70	53
31	J-2	128.00	0	0	249.93	53

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
33	J-4	128.00	0	0	249.93	53
35	J-3	128.00	0	0	249.94	53
544	J-170	123.00	0	0	245.54	53
1108	J-Drake Point 3	126.24	1	67,320	249.66	53
490	J-102	122.00	0	0	245.55	53
502	J-98	122.00	0	0	245.56	53
512	J-96	121.00	0	0	245.54	54
102	J-38	121.00	0	0	245.57	54
104	J-92	121.00	0	0	245.57	54
495	J-90	120.00	0	0	245.57	54
325	J-89	120.00	0	0	245.57	54
322	J-88	120.00	0	0	245.57	54
643	J-199	119.72	0	0	245.54	54
340	J-97	119.00	1	14,566	245.54	55
348	J-95	118.00	1	17,687	245.54	55
576	J-183	118.00	0	0	245.56	55
860	J-Watermark 2	116.57	1	8,415	244.54	55
377	J-157	117.00	1	12,485	245.53	56
372	J-143	117.00	1	4,162	245.54	56
315	J-104	117.00	0	0	245.54	56
108	J-39	116.00	0	0	245.58	56
110	J-40	116.00	1	11,444	245.58	56
1106	J-Drake Point 2	120.00	1	67,703	249.67	56
319	J-87	115.00	0	0	245.55	56
332	J-99	113.00	1	10,404	245.54	57
334	J-91	113.00	1	4,162	245.57	57
106	J-37	112.00	1	5,202	245.58	58
357	J-139	107.00	1	15,606	245.54	60
306	J-106	106.00	0	0	245.54	60
983	J-Venezia 23	105.00	1	12,485	244.56	60
978	J-Venezia 18	105.00	1	10,404	244.61	60
897	J-Talichet 1	104.83	0	0	245.36	61
447	J-36	105.00	0	0	245.59	61
612	J-190	104.74	0	0	245.40	61
616	J-191	104.64	1	10,404	245.41	61
529	J-156	104.00	0	0	245.53	61
169	J-63	104.00	1	12,485	245.54	61
534	J-144	104.00	0	0	245.54	61
121	J-32	104.00	1	20,808	245.59	61
123	J-35	104.00	1	12,485	245.59	61
973	J-Venezia 19	102.41	1	11,444	244.60	62
369	J-145	103.00	1	3,121	245.53	62
304	J-86	103.00	1	3,121	245.55	62
786	J-248	102.22	0	0	245.51	62
215	J-77	102.00	0	0	245.38	62

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
165	J-60	102.00	1	11,444	245.52	62
167	J-61	102.00	0	0	245.52	62
382	J-158	102.00	1	12,485	245.53	62
507	J-136	102.00	0	0	245.54	62
772	J-240	100.95	0	0	244.54	62
1148	J-Watermark 1	100.95	0	0	244.54	62
809	J-Mission Rise 5	100.08	1	11,093	244.45	62
566	J-62	101.00	0	0	245.52	63
773	J-Venezia 1	100.12	0	0	244.87	63
1053	J-Venezia 2	100.09	0	0	244.83	63
211	J-56	100.22	0	0	245.49	63
635	J-197	100.00	0	0	245.38	63
156	J-54	100.06	1	2,081	245.49	63
379	J-155	100.00	1	8,323	245.53	63
201	J-52	100.00	0	0	245.59	63
203	J-51	100.00	1	2,081	245.59	63
213	J-Venezia 3	99.00	0	0	244.77	63
812	J-Mission Rise 6	98.40	1	11,093	244.41	63
895	J-Talichet 2	99.21	0	0	245.37	63
968	J-Venezia 20	97.78	1	11,444	244.60	64
815	J-Mission Rise 7	97.32	1	11,093	244.37	64
848	J-Mission Rise 18	97.08	1	10,710	244.43	64
839	J-Mission Rise 15	96.89	1	10,710	244.37	64
702	J-Venezia 4	97.00	1	32,513	244.72	64
842	J-Mission Rise 16	96.14	1	10,710	244.38	64
688	J-209	97.00	1	5,202	245.50	64
158	J-53	97.00	1	13,525	245.51	64
1110	J-Lake Hills 12	101.23	0	0	249.94	64
192	J-50	96.50	1	1,040	245.62	65
1133	J-Venezia 24	95.33	1	16,646	244.56	65
154	J-58	96.00	1	1,040	245.51	65
629	J-196	96.00	1	13,525	245.52	65
239	J-132	95.00	0	0	244.54	65
235	J-131	95.00	0	0	244.54	65
957	J-Venezia 25	95.00	1	10,404	244.56	65
1168	J-Venezia TH 1	95.00	0	0	244.75	65
934	J-Talichet 6	95.60	1	3,121	245.36	65
881	J-Talichet II 1	94.95	1	5,738	244.84	65
806	J-Mission Rise 4	94.43	1	11,093	244.49	65
818	J-Mission Rise 8	94.12	1	11,093	244.30	65
930	J-Talichet 3	95.16	1	6,242	245.37	65
824	J-Mission Rise 10	94.09	1	6,503	244.31	65
827	J-Mission Rise 11	94.06	1	6,503	244.32	65
932	J-Talichet 4	95.07	1	3,121	245.36	65
465	J-78	95.00	0	0	245.39	65

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
607	J-189	95.00	0	0	245.52	65
524	J-154	95.00	0	0	245.52	65
186	J-49	95.08	1	1,040	245.71	65
1166	J-Venezia TH 2	94.00	1	6,885	244.72	65
1043	J-324	95.01	0	0	245.80	65
1041	J-323	94.88	0	0	245.82	65
255	J-79	94.00	1	4,162	245.39	65
704	J-Venezia 5	93.00	0	0	244.62	66
1100	J-Golden Hills 1	92.58	1	232,178	244.27	66
963	J-Venezia 21	92.72	1	13,525	244.59	66
251	J-123	93.00	0	0	245.38	66
386	J-153	93.00	1	6,242	245.52	66
388	J-159	93.00	0	0	245.52	66
367	J-146	93.00	1	3,121	245.52	66
581	J-184	93.00	0	0	245.55	66
194	J-66	93.00	1	3,121	245.60	66
879	J-Talichet II 2	92.00	1	2,295	244.83	66
776	J-Cedar Creek 1	91.69	1	65,408	244.61	66
116	J-28	92.00	0	0	245.59	66
119	J-29	92.00	1	12,485	245.59	66
1203	J-Venezia TH 3	91.00	1	8,798	244.70	66
730	J-Venezia 30	90.81	0	0	244.59	67
1138	J-Venezia 32	90.74	1	4,162	244.62	67
845	J-Mission Rise 17	90.35	1	10,710	244.39	67
883	J-Talichet 14	90.88	1	3,121	244.96	67
1142	J-Mission Rise 1	90.47	0	0	244.63	67
836	J-Mission Rise 14	90.07	1	6,503	244.35	67
724	J-220	90.23	0	0	244.54	67
1035	J-Venezia 34	90.25	1	2,081	244.62	67
475	J-120	91.00	0	0	245.41	67
404	J-162	91.00	0	0	245.52	67
245	J-134	90.00	1	10,404	244.54	67
241	J-133	90.00	0	0	244.54	67
720	J-Venezia 26	90.00	1	5,202	244.56	67
152	J-76	91.00	1	8,323	245.58	67
1152	J-Mission Rise 22	89.96	0	0	244.54	67
936	J-Talichet 5	90.78	1	5,202	245.36	67
800	J-Mission Rise 2	89.97	1	10,710	244.61	67
803	J-Mission Rise 3	89.89	1	10,710	244.55	67
133	J-33	91.00	0	0	245.67	67
876	J-The Reserve 14	89.84	0	0	244.72	67
1059	J-Talichet 13	90.07	1	1,040	244.98	67
830	J-Mission Rise 12	89.37	1	6,503	244.32	67
1084	J-The Reserve 13	89.69	2	126,225	244.68	67
1081	J-The Reserve 12	89.60	1	2,295	244.68	67

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
1078	J-The Reserve 11	89.47	1	2,295	244.68	67
556	J-174	91.00	0	0	246.22	67
1075	J-The Reserve 10	89.34	2	132,983	244.68	67
480	J-118	90.00	0	0	245.44	67
268	J-81	90.00	1	4,162	245.44	67
732	J-Venezia 31	89.16	1	6,242	244.62	67
400	J-160	90.00	1	16,646	245.52	67
597	J-187	90.00	0	0	245.60	67
179	J-67	90.00	0	0	245.60	67
893	J-Talichet 7	89.60	1	12,485	245.38	67
833	J-Mission Rise 13	88.53	1	6,503	244.34	67
432	J-44	90.00	0	0	245.81	67
436	J-45	90.00	0	0	245.82	67
762	J-234	88.95	0	0	244.80	67
1004	J-Venezia 12	88.68	1	4,162	244.55	67
1129	J-Venezia 10	88.52	1	11,444	244.55	68
851	J-Mission Rise 19	88.36	1	10,710	244.45	68
1064	J-329	88.47	0	0	244.65	68
885	J-Talichet 12	88.74	1	2,081	244.99	68
585	J-185	90.00	0	0	246.26	68
624	J-194	88.00	1	3,121	244.54	68
173	J-64	89.00	0	0	245.58	68
198	J-65	89.00	1	5,202	245.58	68
452	J-41	89.00	1	5,202	245.67	68
1157	J-330	87.56	0	0	244.63	68
821	J-Mission Rise 9	87.13	1	6,503	244.31	68
257	J-80	88.00	1	4,162	245.41	68
1112	J-Thompson Grove 1	92.46	1	104,040	249.92	68
407	J-163	88.00	1	3,121	245.52	68
914	J-Talichet 17	87.41	1	5,202	244.98	68
602	J-188	88.00	0	0	245.58	68
126	J-30	88.00	0	0	245.60	68
130	J-31	88.00	0	0	245.61	68
738	J-Venezia 33	87.00	1	6,242	244.62	68
873	J-The Reserve 8	86.99	0	0	244.62	68
1102	J-Lake Hills 11	92.23	0	0	249.97	68
1195	J-Lake Hills 10	92.00	1	27,158	249.97	68
1017	J-Venezia 6	86.57	0	0	244.57	68
994	J-Venezia 22	86.52	1	4,162	244.56	68
712	J-215	86.31	0	0	244.54	68
402	J-161	87.00	0	0	245.52	69
426	J-168	87.00	0	0	245.52	69
301	J-85	87.00	0	0	245.55	69
706	J-Venezia 7	86.00	0	0	244.56	69
176	J-75	87.00	0	0	245.59	69

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
759	J-The Reserve 9	86.74	1	8,798	245.56	69
797	J-251	85.79	0	0	244.66	69
887	J-Talichet 11	86.01	1	31,860	245.05	69
793	J-Venezia 35	85.52	0	0	244.63	69
857	J-Mission Rise 21	85.31	1	10,710	244.49	69
854	J-Mission Rise 20	85.00	1	10,710	244.47	69
790	J-249	85.17	0	0	244.66	69
952	J-Venezia 29	85.03	1	5,202	244.54	69
621	J-193	85.00	1	1,040	244.54	69
181	J-68	86.00	0	0	245.62	69
1095	J-The Reserve 6	85.05	1	92,565	244.67	69
1097	J-The Reserve 7	85.00	1	92,565	244.64	69
1093	J-The Reserve 5	85.01	1	3,825	244.69	69
775	J-The Reserve 1	85.21	0	0	244.92	69
1091	J-The Reserve 4	85.00	1	3,825	244.72	69
1089	J-The Reserve 3	85.01	1	25,628	244.78	69
1087	J-The Reserve 2	85.05	1	32,895	244.89	69
910	J-Talichet 15	85.00	1	11,444	244.96	69
912	J-Talichet 16	85.00	1	7,283	244.97	69
677	J-WTP1-6	86.25	0	0	246.38	69
678	J-WTP1-5	86.25	0	0	246.38	69
679	J-WTP1-4	86.25	0	0	246.38	69
889	J-Talichet 10	85.00	1	3,121	245.26	69
470	J-122	85.00	0	0	245.37	69
891	J-Talichet 8	85.00	1	18,727	245.41	69
923	J-Talichet 9	85.00	1	3,121	245.42	69
728	J-Venezia 28	84.00	0	0	244.54	69
926	J-295	85.00	1	3,121	245.55	69
549	J-Mitchell 1	85.00	1	13,525	245.56	69
592	J-186	85.00	1	7,283	245.61	69
1205	J-Venezia TH 4	84.00	1	27,540	244.69	70
143	J-71	85.00	0	0	245.72	70
141	J-70	85.00	0	0	245.74	70
769	J-238	85.00	0	0	246.21	70
722	J-Venezia 27	83.00	1	11,444	244.54	70
718	J-Venezia 11	83.00	1	8,323	244.55	70
554	J-173	84.00	0	0	245.60	70
135	J-34	84.00	1	10,404	245.62	70
429	J-43	84.00	1	9,364	245.69	70
139	J-42	84.00	0	0	245.70	70
1012	J-Venezia 9	82.26	1	6,242	244.55	70
249	J-121	83.00	1	5,202	245.37	70
754	J-229	82.11	0	0	244.54	70
422	J-150	83.00	1	3,121	245.52	70
393	J-151	83.00	1	6,242	245.52	70

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
391	J-152	83.00	0	0	245.52	70
708	J-Venezia 8	82.00	1	2,081	244.55	70
457	J-125	82.31	1	10,404	245.15	70
1119	J-Westminster 1	87.02	1	133,875	249.89	70
1032	J-Venezia 17	81.62	1	2,081	244.55	70
1023	J-Venezia 13	81.45	1	3,121	244.55	71
756	J-Whispering Hills 1	81.37	0	0	244.55	71
264	J-117	82.00	0	0	245.44	71
485	J-108	82.00	0	0	245.54	71
716	J-Venezia 16	81.00	1	4,162	244.55	71
1170	J-369	82.00	0	0	245.56	71
552	J-172	82.00	0	0	245.58	71
757	J-231	80.71	0	0	244.55	71
999	J-Venezia 14	80.56	1	4,162	244.55	71
273	J-113	81.00	0	0	245.49	71
275	J-82	81.00	0	0	245.49	71
365	J-147	81.00	1	3,121	245.52	71
710	J-Venezia 15	80.00	1	3,121	244.55	71
150	J-74	81.00	1	2,081	245.58	71
1214	J-Venezia S	79.00	0	0	244.63	72
1183	J-Lake Hills 3	84.00	1	27,540	250.13	72
259	J-119	78.00	1	11,444	245.40	72
231	J-130	77.00	0	0	244.55	72
219	J-Island 1	77.00	1	2,081	244.98	73
1184	J-Lake Hills 4	82.00	1	27,540	250.04	73
419	J-149	77.00	0	0	245.52	73
289	J-84	77.00	0	0	245.55	73
280	J-112	77.00	0	0	245.58	73
112	J-72	77.00	0	0	245.58	73
148	J-73	77.00	0	0	245.58	73
1177	J-Lake Hills 2	81.00	2	169,575	250.17	73
363	J-148	76.00	0	0	245.52	73
360	J-138	76.00	1	11,444	245.53	73
227	J-129	75.00	1	20,808	244.70	73
1188	J-Lake Hills 6	80.00	1	27,158	250.00	74
409	J-164	75.00	1	12,485	245.51	74
1192	J-Lake Hills 7	79.00	1	27,158	249.99	74
413	J-166	72.00	0	0	245.52	75
1068	J-Whispering Hills 3	70.72	1	47,813	244.53	75
1196	J-Lake Hills 9	76.00	1	27,540	249.97	75
327	J-101	71.00	1	13,525	245.54	76
1104	J-Drake Point 1	75.00	1	67,703	249.70	76
1187	J-Lake Hills 5	75.00	1	27,158	250.01	76
346	J-137	70.00	1	13,525	245.53	76
646	J-200	70.00	0	0	245.53	76

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
343	J-135	70.00	1	13,525	245.53	76
313	J-103	70.00	1	19,768	245.54	76
330	J-100	70.00	1	7,283	245.54	76
1114	J-Cypress Point 1	73.64	1	21,038	249.89	76
519	J-169	69.00	0	0	245.52	76
262	J-116	68.00	1	15,606	245.44	77
417	J-167	68.00	1	8,323	245.52	77
292	J-110	68.00	0	0	245.54	77
217	J-124	67.00	0	0	245.32	77
299	J-107	67.00	1	13,525	245.54	77
1189	J-Lake Hills 8	71.00	1	27,158	249.98	77
1070	J-Whispering Hills 4	65.00	1	11,858	244.52	78
310	J-105	66.00	1	14,566	245.54	78
1116	J-Cypress Point 2	70.02	1	21,038	249.89	78
225	J-Island 3	65.00	1	9,364	244.97	78
411	J-165	64.00	1	5,202	245.39	78
271	J-115	64.00	1	9,364	245.49	79
286	J-111	64.00	1	1,040	245.53	79
296	J-109	64.00	0	0	245.54	79
221	J-Island 2	62.00	1	4,162	244.97	79

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect + Fire (South)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
668	J-WTP1-3	81.00	0	0	82.95	1
666	J-WTP1-2	81.00	0	0	82.95	1
664	J-WTP1-1	81.00	0	0	82.96	1
1248	J-WTP3-1	140.00	0	0	141.96	1
869	J-Watermark 5	159.36	2	1,500,053	236.89	34
30	J-WTP2-1	130.00	0	0	208.00	34
68	J-Mission Inn 6	154.00	1	16,646	245.57	40
568	J-Mission Inn 5	154.00	0	0	245.57	40
866	J-Watermark 4	145.57	1	9,180	237.68	40
355	J-140	152.00	0	0	245.50	40
44	J-8	152.00	1	1,040	245.55	40
41	J-6	152.00	0	0	245.56	40
66	J-Mission Inn 10	152.00	0	0	245.57	40
764	J-Whispering Hills 2	146.07	0	0	240.48	41
46	J-9	151.00	0	0	245.57	41
74	J-Mission Inn 9	150.00	1	4,162	245.56	41
78	J-Mission Inn 4	150.00	0	0	245.57	41
82	J-Mission Inn 3	149.00	0	0	245.57	42
86	J-Mission Inn 2	149.00	1	15,606	245.57	42
70	J-Mission Inn 7	148.00	1	8,323	245.56	42
48	J-Mission Inn 1	148.00	0	0	245.57	42
374	J-141	146.00	0	0	245.46	43
72	J-Mission Inn 8	146.00	1	4,162	245.56	43
351	J-94	144.00	0	0	245.54	44
1162	J-365	135.00	0	0	237.25	44
863	J-Watermark 3	135.17	1	8,415	238.13	45
539	J-142	141.00	0	0	245.46	45
1217	J-386	141.00	0	0	245.58	45
1122	J-354	140.00	0	0	245.64	46
1178	J-Lake Hills 1	140.00	0	0	245.77	46
1245	J-WTP3-2	140.00	0	0	245.81	46
50	J-Mission Inn 11	134.00	0	0	245.57	48
640	J-198	131.95	0	0	245.54	49
90	J-Mission Inn 14	131.00	0	0	245.57	50
94	J-Mission Inn 15	130.00	0	0	245.57	50
92	J-23	130.00	0	0	245.57	50
96	J-25	130.00	0	0	245.57	50
114	J-27	129.00	1	15,606	245.57	50
338	J-93	128.00	0	0	245.55	51
100	J-26	128.00	1	3,121	245.57	51
33	J-4	128.00	0	0	245.57	51
442	J-7	128.00	0	0	245.57	51
37	J-5	128.00	0	0	245.57	51
31	J-2	128.00	0	0	245.57	51
35	J-3	128.00	0	0	245.57	51

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect + Fire (South)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
1108	J-Drake Point 3	126.24	1	67,320	245.10	51
52	J-Mission Inn 12	125.00	0	0	245.56	52
54	J-Mission Inn 13	124.00	1	37,454	245.55	53
544	J-170	123.00	0	0	245.45	53
860	J-Watermark 2	116.57	1	8,415	239.15	53
502	J-98	122.00	0	0	245.51	53
490	J-102	122.00	0	0	245.51	53
512	J-96	121.00	0	0	245.47	54
104	J-92	121.00	0	0	245.56	54
102	J-38	121.00	0	0	245.57	54
1106	J-Drake Point 2	120.00	1	67,703	245.11	54
325	J-89	120.00	0	0	245.53	54
495	J-90	120.00	0	0	245.53	54
322	J-88	120.00	0	0	245.54	54
643	J-199	119.72	0	0	245.47	54
340	J-97	119.00	1	14,566	245.48	55
348	J-95	118.00	1	17,687	245.47	55
576	J-183	118.00	0	0	245.53	55
377	J-157	117.00	1	12,485	245.44	56
372	J-143	117.00	1	4,162	245.45	56
315	J-104	117.00	0	0	245.48	56
108	J-39	116.00	0	0	245.55	56
110	J-40	116.00	1	11,444	245.55	56
319	J-87	115.00	0	0	245.50	56
332	J-99	113.00	1	10,404	245.48	57
334	J-91	113.00	1	4,162	245.53	57
106	J-37	112.00	1	5,202	245.57	58
983	J-Venezia 23	105.00	1	12,485	240.35	59
978	J-Venezia 18	105.00	1	10,404	240.91	59
973	J-Venezia 19	102.41	1	11,444	240.84	60
357	J-139	107.00	1	15,606	245.45	60
772	J-240	100.95	0	0	239.63	60
1148	J-Watermark 1	100.95	0	0	239.63	60
897	J-Talichet 1	104.83	0	0	244.26	60
306	J-106	106.00	0	0	245.48	60
612	J-190	104.74	0	0	245.10	61
616	J-191	104.64	1	10,404	245.12	61
447	J-36	105.00	0	0	245.58	61
809	J-Mission Rise 5	100.08	1	11,093	241.16	61
529	J-156	104.00	0	0	245.44	61
534	J-144	104.00	0	0	245.45	61
169	J-63	104.00	1	12,485	245.46	61
121	J-32	104.00	1	20,808	245.58	61
123	J-35	104.00	1	12,485	245.58	61
1053	J-Venezia 2	100.09	0	0	242.22	61

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect + Fire (South)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
773	J-Venezia 1	100.12	0	0	242.36	62
369	J-145	103.00	1	3,121	245.44	62
304	J-86	103.00	1	3,121	245.48	62
812	J-Mission Rise 6	98.40	1	11,093	241.00	62
213	J-Venezia 3	99.00	0	0	241.96	62
968	J-Venezia 20	97.78	1	11,444	240.78	62
215	J-77	102.00	0	0	245.02	62
848	J-Mission Rise 18	97.08	1	10,710	240.12	62
786	J-248	102.22	0	0	245.41	62
839	J-Mission Rise 15	96.89	1	10,710	240.18	62
165	J-60	102.00	1	11,444	245.43	62
167	J-61	102.00	0	0	245.43	62
382	J-158	102.00	1	12,485	245.44	62
507	J-136	102.00	0	0	245.47	62
815	J-Mission Rise 7	97.32	1	11,093	240.84	62
842	J-Mission Rise 16	96.14	1	10,710	240.17	62
1110	J-Lake Hills 12	101.23	0	0	245.48	62
239	J-132	95.00	0	0	239.32	62
566	J-62	101.00	0	0	245.43	62
235	J-131	95.00	0	0	239.44	62
702	J-Venezia 4	97.00	1	32,513	241.72	63
1133	J-Venezia 24	95.33	1	16,646	240.24	63
635	J-197	100.00	0	0	245.01	63
895	J-Talichet 2	99.21	0	0	244.28	63
211	J-56	100.22	0	0	245.34	63
957	J-Venezia 25	95.00	1	10,404	240.19	63
156	J-54	100.06	1	2,081	245.36	63
379	J-155	100.00	1	8,323	245.44	63
201	J-52	100.00	0	0	245.54	63
203	J-51	100.00	1	2,081	245.54	63
827	J-Mission Rise 11	94.06	1	6,503	240.34	63
824	J-Mission Rise 10	94.09	1	6,503	240.37	63
818	J-Mission Rise 8	94.12	1	11,093	240.51	63
1168	J-Venezia TH 1	95.00	0	0	241.86	64
806	J-Mission Rise 4	94.43	1	11,093	241.33	64
881	J-Talichet II 1	94.95	1	5,738	242.65	64
1166	J-Venezia TH 2	94.00	1	6,885	241.76	64
1100	J-Golden Hills 1	92.58	1	232,178	240.48	64
704	J-Venezia 5	93.00	0	0	241.00	64
963	J-Venezia 21	92.72	1	13,525	240.72	64
688	J-209	97.00	1	5,202	245.38	64
158	J-53	97.00	1	13,525	245.41	64
934	J-Talichet 6	95.60	1	3,121	244.27	64
724	J-220	90.23	0	0	238.93	64
192	J-50	96.50	1	1,040	245.59	65

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect + Fire (South)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
930	J-Talichet 3	95.16	1	6,242	244.28	65
932	J-Talichet 4	95.07	1	3,121	244.27	65
245	J-134	90.00	1	10,404	239.31	65
241	J-133	90.00	0	0	239.31	65
154	J-58	96.00	1	1,040	245.42	65
629	J-196	96.00	1	13,525	245.43	65
845	J-Mission Rise 17	90.35	1	10,710	240.15	65
730	J-Venezia 30	90.81	0	0	240.72	65
465	J-78	95.00	0	0	245.03	65
776	J-Cedar Creek 1	91.69	1	65,408	241.78	65
1152	J-Mission Rise 22	89.96	0	0	240.09	65
836	J-Mission Rise 14	90.07	1	6,503	240.22	65
720	J-Venezia 26	90.00	1	5,202	240.19	65
1138	J-Venezia 32	90.74	1	4,162	241.01	65
607	J-189	95.00	0	0	245.42	65
524	J-154	95.00	0	0	245.43	65
879	J-Talichet II 2	92.00	1	2,295	242.61	65
186	J-49	95.08	1	1,040	245.70	65
1203	J-Venezia TH 3	91.00	1	8,798	241.74	65
1035	J-Venezia 34	90.25	1	2,081	241.01	65
1043	J-324	95.01	0	0	245.82	65
830	J-Mission Rise 12	89.37	1	6,503	240.31	65
1041	J-323	94.88	0	0	245.85	65
255	J-79	94.00	1	4,162	245.03	65
1142	J-Mission Rise 1	90.47	0	0	241.80	65
624	J-194	88.00	1	3,121	239.59	66
803	J-Mission Rise 3	89.89	1	10,710	241.51	66
833	J-Mission Rise 13	88.53	1	6,503	240.27	66
851	J-Mission Rise 19	88.36	1	10,710	240.11	66
800	J-Mission Rise 2	89.97	1	10,710	241.75	66
1004	J-Venezia 12	88.68	1	4,162	240.48	66
732	J-Venezia 31	89.16	1	6,242	241.01	66
1129	J-Venezia 10	88.52	1	11,444	240.48	66
251	J-123	93.00	0	0	245.00	66
876	J-The Reserve 14	89.84	0	0	241.85	66
1084	J-The Reserve 13	89.69	2	126,225	241.86	66
883	J-Talichet 14	90.88	1	3,121	243.12	66
1081	J-The Reserve 12	89.60	1	2,295	241.89	66
386	J-153	93.00	1	6,242	245.43	66
388	J-159	93.00	0	0	245.44	66
367	J-146	93.00	1	3,121	245.44	66
1078	J-The Reserve 11	89.47	1	2,295	241.95	66
581	J-184	93.00	0	0	245.48	66
194	J-66	93.00	1	3,121	245.56	66
1075	J-The Reserve 10	89.34	2	132,983	242.01	66

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect + Fire (South)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
1064	J-329	88.47	0	0	241.26	66
1112	J-Thompson Grove 1	92.46	1	104,040	245.45	66
1059	J-Talichet 13	90.07	1	1,040	243.20	66
1102	J-Lake Hills 11	92.23	0	0	245.42	66
821	J-Mission Rise 9	87.13	1	6,503	240.40	66
1195	J-Lake Hills 10	92.00	1	27,158	245.41	66
936	J-Talichet 5	90.78	1	5,202	244.27	66
762	J-234	88.95	0	0	242.49	66
116	J-28	92.00	0	0	245.58	66
119	J-29	92.00	1	12,485	245.58	66
1157	J-330	87.56	0	0	241.14	66
621	J-193	85.00	1	1,040	238.93	67
994	J-Venezia 22	86.52	1	4,162	240.45	67
1017	J-Venezia 6	86.57	0	0	240.54	67
738	J-Venezia 33	87.00	1	6,242	241.01	67
873	J-The Reserve 8	86.99	0	0	241.07	67
475	J-120	91.00	0	0	245.10	67
952	J-Venezia 29	85.03	1	5,202	239.13	67
712	J-215	86.31	0	0	240.46	67
404	J-162	91.00	0	0	245.43	67
706	J-Venezia 7	86.00	0	0	240.51	67
885	J-Talichet 12	88.74	1	2,081	243.25	67
152	J-76	91.00	1	8,323	245.53	67
133	J-33	91.00	0	0	245.67	67
893	J-Talichet 7	89.60	1	12,485	244.34	67
857	J-Mission Rise 21	85.31	1	10,710	240.10	67
854	J-Mission Rise 20	85.00	1	10,710	240.10	67
728	J-Venezia 28	84.00	0	0	239.13	67
480	J-118	90.00	0	0	245.21	67
268	J-81	90.00	1	4,162	245.21	67
400	J-160	90.00	1	16,646	245.43	67
597	J-187	90.00	0	0	245.56	67
179	J-67	90.00	0	0	245.56	67
797	J-251	85.79	0	0	241.40	67
793	J-Venezia 35	85.52	0	0	241.14	67
556	J-174	91.00	0	0	246.72	67
914	J-Talichet 17	87.41	1	5,202	243.21	67
432	J-44	90.00	0	0	245.84	67
436	J-45	90.00	0	0	245.85	67
722	J-Venezia 27	83.00	1	11,444	239.13	68
790	J-249	85.17	0	0	241.33	68
1097	J-The Reserve 7	85.00	1	92,565	241.39	68
173	J-64	89.00	0	0	245.53	68
1095	J-The Reserve 6	85.05	1	92,565	241.58	68
198	J-65	89.00	1	5,202	245.54	68

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect + Fire (South)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
452	J-41	89.00	1	5,202	245.67	68
1093	J-The Reserve 5	85.01	1	3,825	241.70	68
1091	J-The Reserve 4	85.00	1	3,825	241.81	68
585	J-185	90.00	0	0	246.83	68
1089	J-The Reserve 3	85.01	1	25,628	242.08	68
257	J-80	88.00	1	4,162	245.10	68
775	J-The Reserve 1	85.21	0	0	242.60	68
407	J-163	88.00	1	3,121	245.43	68
887	J-Talichet 11	86.01	1	31,860	243.44	68
1087	J-The Reserve 2	85.05	1	32,895	242.50	68
718	J-Venezia 11	83.00	1	8,323	240.48	68
602	J-188	88.00	0	0	245.52	68
126	J-30	88.00	0	0	245.59	68
130	J-31	88.00	0	0	245.61	68
1205	J-Venezia TH 4	84.00	1	27,540	241.73	68
910	J-Talichet 15	85.00	1	11,444	243.15	68
912	J-Talichet 16	85.00	1	7,283	243.17	68
1012	J-Venezia 9	82.26	1	6,242	240.48	68
759	J-The Reserve 9	86.74	1	8,798	245.04	68
754	J-229	82.11	0	0	240.46	69
1119	J-Westminster 1	87.02	1	133,875	245.43	69
402	J-161	87.00	0	0	245.43	69
426	J-168	87.00	0	0	245.43	69
301	J-85	87.00	0	0	245.48	69
708	J-Venezia 8	82.00	1	2,081	240.49	69
176	J-75	87.00	0	0	245.55	69
1032	J-Venezia 17	81.62	1	2,081	240.46	69
1023	J-Venezia 13	81.45	1	3,121	240.48	69
889	J-Talichet 10	85.00	1	3,121	244.05	69
756	J-Whispering Hills 1	81.37	0	0	240.65	69
716	J-Venezia 16	81.00	1	4,162	240.46	69
891	J-Talichet 8	85.00	1	18,727	244.49	69
923	J-Talichet 9	85.00	1	3,121	244.52	69
181	J-68	86.00	0	0	245.58	69
926	J-295	85.00	1	3,121	244.90	69
999	J-Venezia 14	80.56	1	4,162	240.47	69
757	J-231	80.71	0	0	240.68	69
470	J-122	85.00	0	0	244.99	69
549	J-Mitchell 1	85.00	1	13,525	245.04	69
592	J-186	85.00	1	7,283	245.10	69
710	J-Venezia 15	80.00	1	3,121	240.46	69
143	J-71	85.00	0	0	245.72	70
141	J-70	85.00	0	0	245.74	70
677	J-WTP1-6	86.25	0	0	247.15	70
678	J-WTP1-5	86.25	0	0	247.15	70

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect + Fire (South)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
679	J-WTP1-4	86.25	0	0	247.15	70
554	J-173	84.00	0	0	245.08	70
1183	J-Lake Hills 3	84.00	1	27,540	245.45	70
135	J-34	84.00	1	10,404	245.61	70
769	J-238	85.00	0	0	246.67	70
429	J-43	84.00	1	9,364	245.69	70
139	J-42	84.00	0	0	245.70	70
457	J-125	82.31	1	10,404	244.11	70
249	J-121	83.00	1	5,202	244.98	70
1214	J-Venezia S	79.00	0	0	241.14	70
422	J-150	83.00	1	3,121	245.43	70
393	J-151	83.00	1	6,242	245.43	70
391	J-152	83.00	0	0	245.43	70
1170	J-369	82.00	0	0	245.04	71
552	J-172	82.00	0	0	245.06	71
264	J-117	82.00	0	0	245.21	71
1184	J-Lake Hills 4	82.00	1	27,540	245.41	71
485	J-108	82.00	0	0	245.47	71
231	J-130	77.00	0	0	240.48	71
273	J-113	81.00	0	0	245.35	71
275	J-82	81.00	0	0	245.35	71
365	J-147	81.00	1	3,121	245.44	71
1177	J-Lake Hills 2	81.00	2	169,575	245.48	71
150	J-74	81.00	1	2,081	245.54	71
1188	J-Lake Hills 6	80.00	1	27,158	245.40	72
219	J-Island 1	77.00	1	2,081	243.33	72
1192	J-Lake Hills 7	79.00	1	27,158	245.40	72
227	J-129	75.00	1	20,808	241.84	72
259	J-119	78.00	1	11,444	245.10	72
419	J-149	77.00	0	0	245.44	73
289	J-84	77.00	0	0	245.48	73
280	J-112	77.00	0	0	245.53	73
148	J-73	77.00	0	0	245.54	73
112	J-72	77.00	0	0	245.54	73
1196	J-Lake Hills 9	76.00	1	27,540	245.40	73
363	J-148	76.00	0	0	245.44	73
360	J-138	76.00	1	11,444	245.44	73
1068	J-Whispering Hills 3	70.72	1	47,813	240.54	73
1104	J-Drake Point 1	75.00	1	67,703	245.14	74
1187	J-Lake Hills 5	75.00	1	27,158	245.40	74
409	J-164	75.00	1	12,485	245.43	74
1114	J-Cypress Point 1	73.64	1	21,038	245.42	74
413	J-166	72.00	0	0	245.43	75
1189	J-Lake Hills 8	71.00	1	27,158	245.40	75
327	J-101	71.00	1	13,525	245.47	75

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect + Fire (South)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
1116	J-Cypress Point 2	70.02	1	21,038	245.42	76
346	J-137	70.00	1	13,525	245.46	76
646	J-200	70.00	0	0	245.46	76
343	J-135	70.00	1	13,525	245.47	76
313	J-103	70.00	1	19,768	245.47	76
330	J-100	70.00	1	7,283	245.47	76
1070	J-Whispering Hills 4	65.00	1	11,858	240.54	76
519	J-169	69.00	0	0	245.43	76
262	J-116	68.00	1	15,606	245.21	77
417	J-167	68.00	1	8,323	245.43	77
292	J-110	68.00	0	0	245.47	77
217	J-124	67.00	0	0	244.79	77
225	J-Island 3	65.00	1	9,364	243.32	77
299	J-107	67.00	1	13,525	245.46	77
310	J-105	66.00	1	14,566	245.47	78
411	J-165	64.00	1	5,202	245.30	78
221	J-Island 2	62.00	1	4,162	243.33	78
271	J-115	64.00	1	9,364	245.34	78
286	J-111	64.00	1	1,040	245.45	79
296	J-109	64.00	0	0	245.46	79

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 1 Off-Line

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
1248	J-WTP3-1	140.00	0	0	141.74	1
664	J-WTP1-1	81.00	0	0	83.00	1
666	J-WTP1-2	81.00	0	0	83.00	1
668	J-WTP1-3	81.00	0	0	83.00	1
30	J-WTP2-1	130.00	0	0	208.00	34
869	J-Watermark 5	159.36	1	60,053	240.08	35
568	J-Mission Inn 5	154.00	0	0	246.41	40
68	J-Mission Inn 6	154.00	1	16,646	246.61	40
355	J-140	152.00	0	0	245.59	40
44	J-8	152.00	1	1,040	246.06	41
764	J-Whispering Hills 2	146.07	0	0	240.15	41
41	J-6	152.00	0	0	246.20	41
866	J-Watermark 4	145.57	1	9,180	240.08	41
66	J-Mission Inn 10	152.00	0	0	246.75	41
46	J-9	151.00	0	0	246.20	41
78	J-Mission Inn 4	150.00	0	0	246.18	42
74	J-Mission Inn 9	150.00	1	4,162	246.61	42
86	J-Mission Inn 2	149.00	1	15,606	246.15	42
82	J-Mission Inn 3	149.00	0	0	246.17	42
48	J-Mission Inn 1	148.00	0	0	246.08	42
70	J-Mission Inn 7	148.00	1	8,323	246.61	43
374	J-141	146.00	0	0	245.24	43
72	J-Mission Inn 8	146.00	1	4,162	246.61	44
351	J-94	144.00	0	0	245.45	44
539	J-142	141.00	0	0	245.22	45
863	J-Watermark 3	135.17	1	8,415	240.08	45
1162	J-365	135.00	0	0	240.09	45
1217	J-386	141.00	0	0	247.21	46
1122	J-354	140.00	0	0	251.07	48
1178	J-Lake Hills 1	140.00	0	0	252.30	49
1245	J-WTP3-2	140.00	0	0	252.55	49
50	J-Mission Inn 11	134.00	0	0	247.01	49
640	J-198	131.95	0	0	245.11	49
90	J-Mission Inn 14	131.00	0	0	245.58	50
96	J-25	130.00	0	0	245.41	50
94	J-Mission Inn 15	130.00	0	0	245.51	50
92	J-23	130.00	0	0	245.57	50
114	J-27	129.00	1	15,606	245.09	50
338	J-93	128.00	0	0	245.00	51
100	J-26	128.00	1	3,121	245.22	51
52	J-Mission Inn 12	125.00	0	0	247.00	53
490	J-102	122.00	0	0	244.03	53
544	J-170	123.00	0	0	245.11	53
442	J-7	128.00	0	0	250.42	53
37	J-5	128.00	0	0	250.60	53

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 1 Off-Line

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
31	J-2	128.00	0	0	250.86	53
33	J-4	128.00	0	0	250.86	53
502	J-98	122.00	0	0	244.87	53
35	J-3	128.00	0	0	250.87	53
54	J-Mission Inn 13	124.00	1	37,454	246.99	53
860	J-Watermark 2	116.57	1	8,415	240.08	53
512	J-96	121.00	0	0	244.89	54
322	J-88	120.00	0	0	243.94	54
104	J-92	121.00	0	0	244.96	54
325	J-89	120.00	0	0	243.96	54
102	J-38	121.00	0	0	244.96	54
495	J-90	120.00	0	0	244.02	54
1108	J-Drake Point 3	126.24	1	67,320	250.61	54
643	J-199	119.72	0	0	244.82	54
340	J-97	119.00	1	14,566	244.78	54
576	J-183	118.00	0	0	243.86	54
315	J-104	117.00	0	0	243.55	55
348	J-95	118.00	1	17,687	244.95	55
110	J-40	116.00	1	11,444	243.89	55
108	J-39	116.00	0	0	243.92	55
377	J-157	117.00	1	12,485	245.07	55
372	J-143	117.00	1	4,162	245.10	55
319	J-87	115.00	0	0	243.55	56
1106	J-Drake Point 2	120.00	1	67,703	250.61	57
332	J-99	113.00	1	10,404	244.59	57
334	J-91	113.00	1	4,162	244.59	57
106	J-37	112.00	1	5,202	244.50	57
983	J-Venezia 23	105.00	1	12,485	240.15	58
978	J-Venezia 18	105.00	1	10,404	240.19	58
897	J-Talichet 1	104.83	0	0	241.02	59
306	J-106	106.00	0	0	243.14	59
612	J-190	104.74	0	0	241.99	59
616	J-191	104.64	1	10,404	241.99	59
973	J-Venezia 19	102.41	1	11,444	240.18	60
169	J-63	104.00	1	12,485	242.00	60
357	J-139	107.00	1	15,606	245.02	60
772	J-240	100.95	0	0	240.09	60
1148	J-Watermark 1	100.95	0	0	240.09	60
447	J-36	105.00	0	0	244.22	60
786	J-248	102.22	0	0	241.99	60
809	J-Mission Rise 5	100.08	1	11,093	239.92	60
215	J-77	102.00	0	0	242.00	61
165	J-60	102.00	1	11,444	242.00	61
167	J-61	102.00	0	0	242.00	61
121	J-32	104.00	1	20,808	244.10	61

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 1 Off-Line

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
304	J-86	103.00	1	3,121	243.14	61
123	J-35	104.00	1	12,485	244.16	61
773	J-Venezia 1	100.12	0	0	240.46	61
1053	J-Venezia 2	100.09	0	0	240.43	61
566	J-62	101.00	0	0	242.00	61
529	J-156	104.00	0	0	245.03	61
534	J-144	104.00	0	0	245.05	61
213	J-Venezia 3	99.00	0	0	240.37	61
812	J-Mission Rise 6	98.40	1	11,093	239.88	61
211	J-56	100.22	0	0	241.99	61
895	J-Talichet 2	99.21	0	0	241.02	61
156	J-54	100.06	1	2,081	241.99	61
635	J-197	100.00	0	0	241.99	61
203	J-51	100.00	1	2,081	242.00	61
201	J-52	100.00	0	0	242.00	61
369	J-145	103.00	1	3,121	245.02	61
968	J-Venezia 20	97.78	1	11,444	240.17	62
815	J-Mission Rise 7	97.32	1	11,093	239.85	62
507	J-136	102.00	0	0	244.75	62
848	J-Mission Rise 18	97.08	1	10,710	239.96	62
839	J-Mission Rise 15	96.89	1	10,710	239.88	62
382	J-158	102.00	1	12,485	245.02	62
702	J-Venezia 4	97.00	1	32,513	240.32	62
842	J-Mission Rise 16	96.14	1	10,710	239.89	62
1133	J-Venezia 24	95.33	1	16,646	240.14	63
688	J-209	97.00	1	5,202	241.99	63
158	J-53	97.00	1	13,525	241.99	63
379	J-155	100.00	1	8,323	245.02	63
239	J-132	95.00	0	0	240.12	63
235	J-131	95.00	0	0	240.12	63
957	J-Venezia 25	95.00	1	10,404	240.14	63
1168	J-Venezia TH 1	95.00	0	0	240.34	63
934	J-Talichet 6	95.60	1	3,121	241.01	63
881	J-Talichet II 1	94.95	1	5,738	240.41	63
192	J-50	96.50	1	1,040	241.98	63
806	J-Mission Rise 4	94.43	1	11,093	239.95	63
818	J-Mission Rise 8	94.12	1	11,093	239.78	63
824	J-Mission Rise 10	94.09	1	6,503	239.80	63
827	J-Mission Rise 11	94.06	1	6,503	239.81	63
930	J-Talichet 3	95.16	1	6,242	241.02	63
932	J-Talichet 4	95.07	1	3,121	241.02	63
154	J-58	96.00	1	1,040	242.00	63
629	J-196	96.00	1	13,525	242.00	63
1166	J-Venezia TH 2	94.00	1	6,885	240.32	63
1043	J-324	95.01	0	0	241.68	63

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 1 Off-Line

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
186	J-49	95.08	1	1,040	241.86	64
1041	J-323	94.88	0	0	241.67	64
607	J-189	95.00	0	0	242.00	64
465	J-78	95.00	0	0	242.01	64
1100	J-Golden Hills 1	92.58	1	232,178	239.75	64
704	J-Venezia 5	93.00	0	0	240.21	64
963	J-Venezia 21	92.72	1	13,525	240.17	64
255	J-79	94.00	1	4,162	242.01	64
776	J-Cedar Creek 1	91.69	1	65,408	240.05	64
879	J-Talichet II 2	92.00	1	2,295	240.40	64
251	J-123	93.00	0	0	242.01	64
194	J-66	93.00	1	3,121	242.03	64
1203	J-Venezia TH 3	91.00	1	8,798	240.29	65
730	J-Venezia 30	90.81	0	0	240.17	65
1138	J-Venezia 32	90.74	1	4,162	240.19	65
845	J-Mission Rise 17	90.35	1	10,710	239.91	65
1142	J-Mission Rise 1	90.47	0	0	240.07	65
1110	J-Lake Hills 12	101.23	0	0	250.87	65
883	J-Talichet 14	90.88	1	3,121	240.53	65
836	J-Mission Rise 14	90.07	1	6,503	239.86	65
724	J-220	90.23	0	0	240.11	65
1035	J-Venezia 34	90.25	1	2,081	240.19	65
581	J-184	93.00	0	0	242.95	65
524	J-154	95.00	0	0	244.99	65
800	J-Mission Rise 2	89.97	1	10,710	240.06	65
803	J-Mission Rise 3	89.89	1	10,710	240.00	65
245	J-134	90.00	1	10,404	240.11	65
241	J-133	90.00	0	0	240.11	65
1152	J-Mission Rise 22	89.96	0	0	240.09	65
720	J-Venezia 26	90.00	1	5,202	240.14	65
936	J-Talichet 5	90.78	1	5,202	241.01	65
556	J-174	91.00	0	0	241.40	65
830	J-Mission Rise 12	89.37	1	6,503	239.82	65
876	J-The Reserve 14	89.84	0	0	240.29	65
1059	J-Talichet 13	90.07	1	1,040	240.55	65
1084	J-The Reserve 13	89.69	2	126,225	240.26	65
1081	J-The Reserve 12	89.60	1	2,295	240.26	65
1078	J-The Reserve 11	89.47	1	2,295	240.26	65
1075	J-The Reserve 10	89.34	2	132,983	240.26	65
732	J-Venezia 31	89.16	1	6,242	240.19	65
152	J-76	91.00	1	8,323	242.04	65
475	J-120	91.00	0	0	242.10	65
833	J-Mission Rise 13	88.53	1	6,503	239.84	65
893	J-Talichet 7	89.60	1	12,485	241.00	66
585	J-185	90.00	0	0	241.42	66

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 1 Off-Line

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
762	J-234	88.95	0	0	240.37	66
1004	J-Venezia 12	88.68	1	4,162	240.15	66
851	J-Mission Rise 19	88.36	1	10,710	239.98	66
1129	J-Venezia 10	88.52	1	11,444	240.15	66
436	J-45	90.00	0	0	241.67	66
432	J-44	90.00	0	0	241.71	66
1064	J-329	88.47	0	0	240.20	66
885	J-Talichet 12	88.74	1	2,081	240.56	66
386	J-153	93.00	1	6,242	244.98	66
388	J-159	93.00	0	0	244.99	66
367	J-146	93.00	1	3,121	244.99	66
133	J-33	91.00	0	0	243.02	66
597	J-187	90.00	0	0	242.04	66
179	J-67	90.00	0	0	242.04	66
624	J-194	88.00	1	3,121	240.12	66
119	J-29	92.00	1	12,485	244.14	66
116	J-28	92.00	0	0	244.16	66
480	J-118	90.00	0	0	242.22	66
268	J-81	90.00	1	4,162	242.22	66
1157	J-330	87.56	0	0	240.17	66
821	J-Mission Rise 9	87.13	1	6,503	239.80	66
198	J-65	89.00	1	5,202	242.03	66
173	J-64	89.00	0	0	242.03	66
914	J-Talichet 17	87.41	1	5,202	240.55	66
873	J-The Reserve 8	86.99	0	0	240.16	66
738	J-Venezia 33	87.00	1	6,242	240.19	66
1017	J-Venezia 6	86.57	0	0	240.16	66
994	J-Venezia 22	86.52	1	4,162	240.15	66
712	J-215	86.31	0	0	240.15	67
404	J-162	91.00	0	0	244.96	67
452	J-41	89.00	1	5,202	242.97	67
602	J-188	88.00	0	0	242.03	67
257	J-80	88.00	1	4,162	242.10	67
706	J-Venezia 7	86.00	0	0	240.16	67
759	J-The Reserve 9	86.74	1	8,798	241.02	67
797	J-251	85.79	0	0	240.23	67
887	J-Talichet 11	86.01	1	31,860	240.62	67
793	J-Venezia 35	85.52	0	0	240.20	67
857	J-Mission Rise 21	85.31	1	10,710	240.03	67
400	J-160	90.00	1	16,646	244.96	67
854	J-Mission Rise 20	85.00	1	10,710	240.00	67
790	J-249	85.17	0	0	240.22	67
176	J-75	87.00	0	0	242.05	67
952	J-Venezia 29	85.03	1	5,202	240.12	67
621	J-193	85.00	1	1,040	240.11	67

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 1 Off-Line

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
1095	J-The Reserve 6	85.05	1	92,565	240.17	67
775	J-The Reserve 1	85.21	0	0	240.34	67
1097	J-The Reserve 7	85.00	1	92,565	240.16	67
677	J-WTP1-6	86.25	0	0	241.42	67
678	J-WTP1-5	86.25	0	0	241.42	67
679	J-WTP1-4	86.25	0	0	241.42	67
1093	J-The Reserve 5	85.01	1	3,825	240.19	67
1091	J-The Reserve 4	85.00	1	3,825	240.21	67
1089	J-The Reserve 3	85.01	1	25,628	240.25	67
1087	J-The Reserve 2	85.05	1	32,895	240.32	67
910	J-Talichet 15	85.00	1	11,444	240.53	67
912	J-Talichet 16	85.00	1	7,283	240.54	67
130	J-31	88.00	0	0	243.82	67
301	J-85	87.00	0	0	242.82	67
889	J-Talichet 10	85.00	1	3,121	240.83	67
126	J-30	88.00	0	0	243.98	67
923	J-Talichet 9	85.00	1	3,121	240.99	67
891	J-Talichet 8	85.00	1	18,727	240.99	67
549	J-Mitchell 1	85.00	1	13,525	241.03	68
181	J-68	86.00	0	0	242.05	68
926	J-295	85.00	1	3,121	241.05	68
592	J-186	85.00	1	7,283	241.08	68
728	J-Venezia 28	84.00	0	0	240.12	68
1205	J-Venezia TH 4	84.00	1	27,540	240.29	68
769	J-238	85.00	0	0	241.38	68
407	J-163	88.00	1	3,121	244.96	68
470	J-122	85.00	0	0	242.01	68
554	J-173	84.00	0	0	241.07	68
722	J-Venezia 27	83.00	1	11,444	240.12	68
718	J-Venezia 11	83.00	1	8,323	240.15	68
141	J-70	85.00	0	0	242.21	68
143	J-71	85.00	0	0	242.25	68
1012	J-Venezia 9	82.26	1	6,242	240.15	68
426	J-168	87.00	0	0	244.96	68
402	J-161	87.00	0	0	244.96	68
754	J-229	82.11	0	0	240.15	68
708	J-Venezia 8	82.00	1	2,081	240.15	68
1112	J-Thompson Grove 1	92.46	1	104,040	250.85	69
429	J-43	84.00	1	9,364	242.50	69
1032	J-Venezia 17	81.62	1	2,081	240.15	69
139	J-42	84.00	0	0	242.61	69
1102	J-Lake Hills 11	92.23	0	0	250.92	69
1023	J-Venezia 13	81.45	1	3,121	240.15	69
756	J-Whispering Hills 1	81.37	0	0	240.20	69
1195	J-Lake Hills 10	92.00	1	27,158	250.92	69

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 1 Off-Line

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
249	J-121	83.00	1	5,202	242.01	69
1170	J-369	82.00	0	0	241.02	69
552	J-172	82.00	0	0	241.04	69
716	J-Venezia 16	81.00	1	4,162	240.15	69
457	J-125	82.31	1	10,404	241.58	69
757	J-231	80.71	0	0	240.21	69
999	J-Venezia 14	80.56	1	4,162	240.15	69
135	J-34	84.00	1	10,404	243.72	69
710	J-Venezia 15	80.00	1	3,121	240.15	69
264	J-117	82.00	0	0	242.21	69
485	J-108	82.00	0	0	242.82	70
150	J-74	81.00	1	2,081	242.11	70
1214	J-Venezia S	79.00	0	0	240.17	70
273	J-113	81.00	0	0	242.36	70
275	J-82	81.00	0	0	242.36	70
422	J-150	83.00	1	3,121	244.96	70
393	J-151	83.00	1	6,242	244.96	70
391	J-152	83.00	0	0	244.96	70
231	J-130	77.00	0	0	240.16	71
1119	J-Westminster 1	87.02	1	133,875	250.82	71
365	J-147	81.00	1	3,121	244.96	71
259	J-119	78.00	1	11,444	242.10	71
219	J-Island 1	77.00	1	2,081	241.23	71
148	J-73	77.00	0	0	242.36	72
280	J-112	77.00	0	0	242.37	72
112	J-72	77.00	0	0	242.50	72
289	J-84	77.00	0	0	242.51	72
227	J-129	75.00	1	20,808	240.62	72
1183	J-Lake Hills 3	84.00	1	27,540	251.06	72
419	J-149	77.00	0	0	244.95	73
360	J-138	76.00	1	11,444	244.95	73
363	J-148	76.00	0	0	244.95	73
1184	J-Lake Hills 4	82.00	1	27,540	250.97	73
1068	J-Whispering Hills 3	70.72	1	47,813	240.15	73
409	J-164	75.00	1	12,485	244.95	74
1177	J-Lake Hills 2	81.00	2	169,575	251.10	74
1188	J-Lake Hills 6	80.00	1	27,158	250.94	74
1192	J-Lake Hills 7	79.00	1	27,158	250.93	74
413	J-166	72.00	0	0	244.95	75
327	J-101	71.00	1	13,525	244.12	75
313	J-103	70.00	1	19,768	243.55	75
262	J-116	68.00	1	15,606	242.21	75
330	J-100	70.00	1	7,283	244.33	75
292	J-110	68.00	0	0	242.51	76
343	J-135	70.00	1	13,525	244.68	76

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 1 Off-Line

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
646	J-200	70.00	0	0	244.73	76
346	J-137	70.00	1	13,525	244.87	76
217	J-124	67.00	0	0	241.90	76
1196	J-Lake Hills 9	76.00	1	27,540	250.92	76
1070	J-Whispering Hills 4	65.00	1	11,858	240.15	76
1104	J-Drake Point 1	75.00	1	67,703	250.64	76
299	J-107	67.00	1	13,525	242.82	76
1187	J-Lake Hills 5	75.00	1	27,158	250.95	76
519	J-169	69.00	0	0	244.95	76
225	J-Island 3	65.00	1	9,364	241.23	76
417	J-167	68.00	1	8,323	244.95	77
310	J-105	66.00	1	14,566	243.14	77
1114	J-Cypress Point 1	73.64	1	21,038	250.82	77
271	J-115	64.00	1	9,364	242.35	77
286	J-111	64.00	1	1,040	242.45	77
296	J-109	64.00	0	0	242.51	77
221	J-Island 2	62.00	1	4,162	241.23	78
1189	J-Lake Hills 8	71.00	1	27,158	250.92	78
1116	J-Cypress Point 2	70.02	1	21,038	250.82	78
411	J-165	64.00	1	5,202	244.83	78

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 1 Off-Line + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
1248	J-WTP3-1	140.00	0	0	141.31	1
664	J-WTP1-1	81.00	0	0	83.00	1
666	J-WTP1-2	81.00	0	0	83.00	1
668	J-WTP1-3	81.00	0	0	83.00	1
869	J-Watermark 5	159.36	1	60,053	226.72	29
68	J-Mission Inn 6	154.00	2	2,176,646	229.07	32
568	J-Mission Inn 5	154.00	0	0	230.04	33
30	J-WTP2-1	130.00	0	0	208.00	34
66	J-Mission Inn 10	152.00	0	0	230.65	34
74	J-Mission Inn 9	150.00	1	4,162	229.07	34
355	J-140	152.00	0	0	232.66	35
764	J-Whispering Hills 2	146.07	0	0	226.79	35
70	J-Mission Inn 7	148.00	1	8,323	229.07	35
866	J-Watermark 4	145.57	1	9,180	226.72	35
78	J-Mission Inn 4	150.00	0	0	231.21	35
44	J-8	152.00	1	1,040	233.25	35
41	J-6	152.00	0	0	233.44	35
82	J-Mission Inn 3	149.00	0	0	231.26	36
46	J-9	151.00	0	0	233.27	36
86	J-Mission Inn 2	149.00	1	15,606	231.38	36
72	J-Mission Inn 8	146.00	1	4,162	229.07	36
48	J-Mission Inn 1	148.00	0	0	232.91	37
374	J-141	146.00	0	0	232.21	37
351	J-94	144.00	0	0	232.39	38
539	J-142	141.00	0	0	232.19	39
863	J-Watermark 3	135.17	1	8,415	226.72	40
1162	J-365	135.00	0	0	226.73	40
1217	J-386	141.00	0	0	235.41	41
50	J-Mission Inn 11	134.00	0	0	233.51	43
640	J-198	131.95	0	0	231.86	43
90	J-Mission Inn 14	131.00	0	0	231.98	44
94	J-Mission Inn 15	130.00	0	0	231.98	44
96	J-25	130.00	0	0	231.98	44
92	J-23	130.00	0	0	232.14	44
114	J-27	129.00	1	15,606	231.68	44
338	J-93	128.00	0	0	231.69	45
100	J-26	128.00	1	3,121	231.80	45
52	J-Mission Inn 12	125.00	0	0	233.50	47
490	J-102	122.00	0	0	230.70	47
544	J-170	123.00	0	0	232.05	47
1122	J-354	140.00	0	0	249.17	47
54	J-Mission Inn 13	124.00	1	37,454	233.49	47
502	J-98	122.00	0	0	231.60	47

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 1 Off-Line + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
860	J-Watermark 2	116.57	1	8,415	226.72	48
104	J-92	121.00	0	0	231.58	48
102	J-38	121.00	0	0	231.58	48
322	J-88	120.00	0	0	230.59	48
325	J-89	120.00	0	0	230.61	48
495	J-90	120.00	0	0	230.68	48
512	J-96	121.00	0	0	231.71	48
643	J-199	119.72	0	0	231.60	48
576	J-183	118.00	0	0	230.52	49
1178	J-Lake Hills 1	140.00	0	0	252.53	49
340	J-97	119.00	1	14,566	231.54	49
1245	J-WTP3-2	140.00	0	0	253.19	49
315	J-104	117.00	0	0	230.22	49
348	J-95	118.00	1	17,687	231.80	49
110	J-40	116.00	1	11,444	230.53	50
108	J-39	116.00	0	0	230.56	50
377	J-157	117.00	1	12,485	232.00	50
372	J-143	117.00	1	4,162	232.03	50
319	J-87	115.00	0	0	230.22	50
334	J-91	113.00	1	4,162	231.27	51
332	J-99	113.00	1	10,404	231.29	51
106	J-37	112.00	1	5,202	231.12	52
442	J-7	128.00	0	0	247.30	52
37	J-5	128.00	0	0	247.91	52
31	J-2	128.00	0	0	248.76	52
33	J-4	128.00	0	0	248.76	52
35	J-3	128.00	0	0	248.78	52
983	J-Venezia 23	105.00	1	12,485	226.79	53
978	J-Venezia 18	105.00	1	10,404	226.83	53
1108	J-Drake Point 3	126.24	1	67,320	248.80	53
897	J-Talichet 1	104.83	0	0	227.66	53
306	J-106	106.00	0	0	229.80	54
612	J-190	104.74	0	0	228.64	54
616	J-191	104.64	1	10,404	228.64	54
973	J-Venezia 19	102.41	1	11,444	226.82	54
169	J-63	104.00	1	12,485	228.65	54
357	J-139	107.00	1	15,606	231.93	54
772	J-240	100.95	0	0	226.73	54
1148	J-Watermark 1	100.95	0	0	226.73	54
447	J-36	105.00	0	0	230.84	54
786	J-248	102.22	0	0	228.64	55
809	J-Mission Rise 5	100.08	1	11,093	226.56	55
215	J-77	102.00	0	0	228.64	55

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 1 Off-Line + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
165	J-60	102.00	1	11,444	228.64	55
167	J-61	102.00	0	0	228.64	55
121	J-32	104.00	1	20,808	230.72	55
123	J-35	104.00	1	12,485	230.79	55
304	J-86	103.00	1	3,121	229.80	55
773	J-Venezia 1	100.12	0	0	227.10	55
1053	J-Venezia 2	100.09	0	0	227.07	55
566	J-62	101.00	0	0	228.64	55
529	J-156	104.00	0	0	231.94	55
534	J-144	104.00	0	0	231.97	55
213	J-Venezia 3	99.00	0	0	227.01	55
812	J-Mission Rise 6	98.40	1	11,093	226.52	55
211	J-56	100.22	0	0	228.64	56
895	J-Talichet 2	99.21	0	0	227.66	56
156	J-54	100.06	1	2,081	228.64	56
635	J-197	100.00	0	0	228.63	56
203	J-51	100.00	1	2,081	228.64	56
201	J-52	100.00	0	0	228.64	56
1106	J-Drake Point 2	120.00	1	67,703	248.81	56
369	J-145	103.00	1	3,121	231.93	56
968	J-Venezia 20	97.78	1	11,444	226.82	56
815	J-Mission Rise 7	97.32	1	11,093	226.49	56
507	J-136	102.00	0	0	231.52	56
848	J-Mission Rise 18	97.08	1	10,710	226.60	56
839	J-Mission Rise 15	96.89	1	10,710	226.53	56
382	J-158	102.00	1	12,485	231.93	56
702	J-Venezia 4	97.00	1	32,513	226.96	56
842	J-Mission Rise 16	96.14	1	10,710	226.53	56
1133	J-Venezia 24	95.33	1	16,646	226.78	57
688	J-209	97.00	1	5,202	228.64	57
158	J-53	97.00	1	13,525	228.64	57
239	J-132	95.00	0	0	226.76	57
235	J-131	95.00	0	0	226.76	57
957	J-Venezia 25	95.00	1	10,404	226.78	57
379	J-155	100.00	1	8,323	231.93	57
1168	J-Venezia TH 1	95.00	0	0	226.99	57
934	J-Talichet 6	95.60	1	3,121	227.66	57
881	J-Talichet II 1	94.95	1	5,738	227.05	57
192	J-50	96.50	1	1,040	228.62	57
806	J-Mission Rise 4	94.43	1	11,093	226.59	57
818	J-Mission Rise 8	94.12	1	11,093	226.42	57
824	J-Mission Rise 10	94.09	1	6,503	226.44	57
827	J-Mission Rise 11	94.06	1	6,503	226.45	57

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 1 Off-Line + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
930	J-Talichet 3	95.16	1	6,242	227.66	57
932	J-Talichet 4	95.07	1	3,121	227.66	57
154	J-58	96.00	1	1,040	228.64	57
629	J-196	96.00	1	13,525	228.64	57
1166	J-Venezia TH 2	94.00	1	6,885	226.96	58
1043	J-324	95.01	0	0	228.32	58
186	J-49	95.08	1	1,040	228.50	58
1041	J-323	94.88	0	0	228.31	58
607	J-189	95.00	0	0	228.64	58
465	J-78	95.00	0	0	228.65	58
1100	J-Golden Hills 1	92.58	1	232,178	226.39	58
704	J-Venezia 5	93.00	0	0	226.85	58
963	J-Venezia 21	92.72	1	13,525	226.81	58
255	J-79	94.00	1	4,162	228.66	58
776	J-Cedar Creek 1	91.69	1	65,408	226.69	58
879	J-Talichet II 2	92.00	1	2,295	227.04	58
251	J-123	93.00	0	0	228.65	59
194	J-66	93.00	1	3,121	228.68	59
1203	J-Venezia TH 3	91.00	1	8,798	226.93	59
730	J-Venezia 30	90.81	0	0	226.81	59
1138	J-Venezia 32	90.74	1	4,162	226.83	59
845	J-Mission Rise 17	90.35	1	10,710	226.55	59
1142	J-Mission Rise 1	90.47	0	0	226.71	59
883	J-Talichet 14	90.88	1	3,121	227.17	59
836	J-Mission Rise 14	90.07	1	6,503	226.50	59
724	J-220	90.23	0	0	226.75	59
1035	J-Venezia 34	90.25	1	2,081	226.83	59
581	J-184	93.00	0	0	229.60	59
800	J-Mission Rise 2	89.97	1	10,710	226.70	59
803	J-Mission Rise 3	89.89	1	10,710	226.64	59
245	J-134	90.00	1	10,404	226.75	59
241	J-133	90.00	0	0	226.75	59
1152	J-Mission Rise 22	89.96	0	0	226.73	59
720	J-Venezia 26	90.00	1	5,202	226.78	59
936	J-Talichet 5	90.78	1	5,202	227.66	59
524	J-154	95.00	0	0	231.89	59
556	J-174	91.00	0	0	228.04	59
830	J-Mission Rise 12	89.37	1	6,503	226.46	59
876	J-The Reserve 14	89.84	0	0	226.93	59
1059	J-Talichet 13	90.07	1	1,040	227.19	59
1084	J-The Reserve 13	89.69	2	126,225	226.90	59
1081	J-The Reserve 12	89.60	1	2,295	226.90	59
1078	J-The Reserve 11	89.47	1	2,295	226.90	59

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 1 Off-Line + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
1075	J-The Reserve 10	89.34	2	132,983	226.90	60
732	J-Venezia 31	89.16	1	6,242	226.83	60
152	J-76	91.00	1	8,323	228.69	60
475	J-120	91.00	0	0	228.75	60
833	J-Mission Rise 13	88.53	1	6,503	226.48	60
893	J-Talichet 7	89.60	1	12,485	227.64	60
585	J-185	90.00	0	0	228.06	60
762	J-234	88.95	0	0	227.01	60
1004	J-Venezia 12	88.68	1	4,162	226.79	60
851	J-Mission Rise 19	88.36	1	10,710	226.62	60
1129	J-Venezia 10	88.52	1	11,444	226.79	60
436	J-45	90.00	0	0	228.31	60
432	J-44	90.00	0	0	228.35	60
1064	J-329	88.47	0	0	226.84	60
885	J-Talichet 12	88.74	1	2,081	227.20	60
133	J-33	91.00	0	0	229.65	60
597	J-187	90.00	0	0	228.68	60
179	J-67	90.00	0	0	228.69	60
119	J-29	92.00	1	12,485	230.76	60
624	J-194	88.00	1	3,121	226.76	60
116	J-28	92.00	0	0	230.78	60
480	J-118	90.00	0	0	228.86	60
268	J-81	90.00	1	4,162	228.86	60
386	J-153	93.00	1	6,242	231.88	60
388	J-159	93.00	0	0	231.89	60
367	J-146	93.00	1	3,121	231.89	60
1157	J-330	87.56	0	0	226.82	60
821	J-Mission Rise 9	87.13	1	6,503	226.44	60
198	J-65	89.00	1	5,202	228.67	60
173	J-64	89.00	0	0	228.67	60
914	J-Talichet 17	87.41	1	5,202	227.19	60
873	J-The Reserve 8	86.99	0	0	226.80	60
738	J-Venezia 33	87.00	1	6,242	226.83	60
1017	J-Venezia 6	86.57	0	0	226.80	61
994	J-Venezia 22	86.52	1	4,162	226.79	61
712	J-215	86.31	0	0	226.79	61
452	J-41	89.00	1	5,202	229.61	61
602	J-188	88.00	0	0	228.67	61
257	J-80	88.00	1	4,162	228.75	61
706	J-Venezia 7	86.00	0	0	226.80	61
404	J-162	91.00	0	0	231.85	61
759	J-The Reserve 9	86.74	1	8,798	227.66	61
797	J-251	85.79	0	0	226.87	61

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 1 Off-Line + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
887	J-Talichet 11	86.01	1	31,860	227.26	61
793	J-Venezia 35	85.52	0	0	226.84	61
857	J-Mission Rise 21	85.31	1	10,710	226.67	61
854	J-Mission Rise 20	85.00	1	10,710	226.64	61
790	J-249	85.17	0	0	226.86	61
176	J-75	87.00	0	0	228.69	61
952	J-Venezia 29	85.03	1	5,202	226.76	61
621	J-193	85.00	1	1,040	226.75	61
1095	J-The Reserve 6	85.05	1	92,565	226.81	61
775	J-The Reserve 1	85.21	0	0	226.98	61
1097	J-The Reserve 7	85.00	1	92,565	226.80	61
677	J-WTP1-6	86.25	0	0	228.06	61
678	J-WTP1-5	86.25	0	0	228.06	61
679	J-WTP1-4	86.25	0	0	228.06	61
1093	J-The Reserve 5	85.01	1	3,825	226.83	61
1091	J-The Reserve 4	85.00	1	3,825	226.85	61
400	J-160	90.00	1	16,646	231.85	61
1089	J-The Reserve 3	85.01	1	25,628	226.89	61
1087	J-The Reserve 2	85.05	1	32,895	226.96	61
910	J-Talichet 15	85.00	1	11,444	227.17	62
912	J-Talichet 16	85.00	1	7,283	227.18	62
130	J-31	88.00	0	0	230.44	62
889	J-Talichet 10	85.00	1	3,121	227.47	62
301	J-85	87.00	0	0	229.47	62
126	J-30	88.00	0	0	230.60	62
923	J-Talichet 9	85.00	1	3,121	227.63	62
891	J-Talichet 8	85.00	1	18,727	227.63	62
549	J-Mitchell 1	85.00	1	13,525	227.67	62
926	J-295	85.00	1	3,121	227.69	62
181	J-68	86.00	0	0	228.69	62
592	J-186	85.00	1	7,283	227.72	62
728	J-Venezia 28	84.00	0	0	226.76	62
1205	J-Venezia TH 4	84.00	1	27,540	226.93	62
769	J-238	85.00	0	0	228.02	62
470	J-122	85.00	0	0	228.65	62
554	J-173	84.00	0	0	227.71	62
722	J-Venezia 27	83.00	1	11,444	226.76	62
718	J-Venezia 11	83.00	1	8,323	226.79	62
141	J-70	85.00	0	0	228.85	62
407	J-163	88.00	1	3,121	231.85	62
143	J-71	85.00	0	0	228.89	62
1012	J-Venezia 9	82.26	1	6,242	226.79	63
754	J-229	82.11	0	0	226.79	63

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 1 Off-Line + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
708	J-Venezia 8	82.00	1	2,081	226.79	63
426	J-168	87.00	0	0	231.85	63
402	J-161	87.00	0	0	231.85	63
429	J-43	84.00	1	9,364	229.14	63
1032	J-Venezia 17	81.62	1	2,081	226.79	63
139	J-42	84.00	0	0	229.24	63
1023	J-Venezia 13	81.45	1	3,121	226.79	63
756	J-Whispering Hills 1	81.37	0	0	226.84	63
249	J-121	83.00	1	5,202	228.65	63
1170	J-369	82.00	0	0	227.66	63
552	J-172	82.00	0	0	227.68	63
716	J-Venezia 16	81.00	1	4,162	226.79	63
457	J-125	82.31	1	10,404	228.23	63
757	J-231	80.71	0	0	226.85	63
999	J-Venezia 14	80.56	1	4,162	226.79	63
135	J-34	84.00	1	10,404	230.35	63
710	J-Venezia 15	80.00	1	3,121	226.79	64
264	J-117	82.00	0	0	228.86	64
485	J-108	82.00	0	0	229.47	64
1110	J-Lake Hills 12	101.23	0	0	248.96	64
150	J-74	81.00	1	2,081	228.75	64
1214	J-Venezia S	79.00	0	0	226.82	64
273	J-113	81.00	0	0	229.00	64
275	J-82	81.00	0	0	229.00	64
422	J-150	83.00	1	3,121	231.85	64
393	J-151	83.00	1	6,242	231.85	64
391	J-152	83.00	0	0	231.86	64
231	J-130	77.00	0	0	226.80	65
259	J-119	78.00	1	11,444	228.75	65
365	J-147	81.00	1	3,121	231.86	65
219	J-Island 1	77.00	1	2,081	227.88	65
148	J-73	77.00	0	0	229.00	66
280	J-112	77.00	0	0	229.01	66
112	J-72	77.00	0	0	229.15	66
289	J-84	77.00	0	0	229.15	66
227	J-129	75.00	1	20,808	227.26	66
419	J-149	77.00	0	0	231.84	67
360	J-138	76.00	1	11,444	231.84	67
363	J-148	76.00	0	0	231.84	67
1068	J-Whispering Hills 3	70.72	1	47,813	226.79	68
1112	J-Thompson Grove 1	92.46	1	104,040	248.93	68
409	J-164	75.00	1	12,485	231.85	68
1102	J-Lake Hills 11	92.23	0	0	249.12	68

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 1 Off-Line + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
1195	J-Lake Hills 10	92.00	1	27,158	249.12	68
327	J-101	71.00	1	13,525	230.81	69
413	J-166	72.00	0	0	231.85	69
313	J-103	70.00	1	19,768	230.22	69
262	J-116	68.00	1	15,606	228.86	70
330	J-100	70.00	1	7,283	231.04	70
292	J-110	68.00	0	0	229.15	70
343	J-135	70.00	1	13,525	231.46	70
646	J-200	70.00	0	0	231.52	70
217	J-124	67.00	0	0	228.55	70
346	J-137	70.00	1	13,525	231.72	70
1070	J-Whispering Hills 4	65.00	1	11,858	226.79	70
1119	J-Westminster 1	87.02	1	133,875	248.91	70
299	J-107	67.00	1	13,525	229.47	70
519	J-169	69.00	0	0	231.85	70
225	J-Island 3	65.00	1	9,364	227.87	70
310	J-105	66.00	1	14,566	229.80	71
417	J-167	68.00	1	8,323	231.85	71
271	J-115	64.00	1	9,364	229.00	71
286	J-111	64.00	1	1,040	229.10	71
296	J-109	64.00	0	0	229.15	71
1183	J-Lake Hills 3	84.00	1	27,540	249.62	72
221	J-Island 2	62.00	1	4,162	227.87	72
1184	J-Lake Hills 4	82.00	1	27,540	249.41	72
411	J-165	64.00	1	5,202	231.72	73
1177	J-Lake Hills 2	81.00	2	169,575	249.70	73
1188	J-Lake Hills 6	80.00	1	27,158	249.30	73
1192	J-Lake Hills 7	79.00	1	27,158	249.26	74
1196	J-Lake Hills 9	76.00	1	27,540	249.15	75
1104	J-Drake Point 1	75.00	1	67,703	248.84	75
1187	J-Lake Hills 5	75.00	1	27,158	249.33	75
1114	J-Cypress Point 1	73.64	1	21,038	248.90	76
1189	J-Lake Hills 8	71.00	1	27,158	249.20	77
1116	J-Cypress Point 2	70.02	1	21,038	248.90	77

Howey In The Hills Water System

FlexTable: Junction Table

**Active Scenario: Max Day - Pro Interconnect - WTP No. 1 Off-line + Fire
South 1000**

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
1248	J-WTP3-1	140.00	0	0	141.47	1
664	J-WTP1-1	81.00	0	0	83.00	1
666	J-WTP1-2	81.00	0	0	83.00	1
668	J-WTP1-3	81.00	0	0	83.00	1
869	J-Watermark 5	159.36	2	1,500,053	224.48	28
30	J-WTP2-1	130.00	0	0	208.00	34
866	J-Watermark 4	145.57	1	9,180	225.24	34
764	J-Whispering Hills 2	146.07	0	0	228.39	36
1162	J-365	135.00	0	0	224.86	39
863	J-Watermark 3	135.17	1	8,415	225.67	39
568	J-Mission Inn 5	154.00	0	0	247.83	41
355	J-140	152.00	0	0	245.88	41
68	J-Mission Inn 6	154.00	1	16,646	248.35	41
44	J-8	152.00	1	1,040	246.91	41
41	J-6	152.00	0	0	247.25	41
46	J-9	151.00	0	0	247.24	42
66	J-Mission Inn 10	152.00	0	0	248.70	42
78	J-Mission Inn 4	150.00	0	0	247.22	42
86	J-Mission Inn 2	149.00	1	15,606	247.13	42
82	J-Mission Inn 3	149.00	0	0	247.19	42
74	J-Mission Inn 9	150.00	1	4,162	248.35	43
48	J-Mission Inn 1	148.00	0	0	246.93	43
374	J-141	146.00	0	0	245.10	43
70	J-Mission Inn 7	148.00	1	8,323	248.35	43
351	J-94	144.00	0	0	245.37	44
72	J-Mission Inn 8	146.00	1	4,162	248.35	44
539	J-142	141.00	0	0	245.06	45
1217	J-386	141.00	0	0	249.80	47
860	J-Watermark 2	116.57	1	8,415	226.66	48
640	J-198	131.95	0	0	244.43	49
90	J-Mission Inn 14	131.00	0	0	245.60	50
96	J-25	130.00	0	0	245.16	50
114	J-27	129.00	1	15,606	244.32	50
50	J-Mission Inn 11	134.00	0	0	249.35	50
94	J-Mission Inn 15	130.00	0	0	245.41	50
92	J-23	130.00	0	0	245.57	50
338	J-93	128.00	0	0	244.12	50
100	J-26	128.00	1	3,121	244.64	50
1122	J-354	140.00	0	0	259.43	52
490	J-102	122.00	0	0	241.49	52
322	J-88	120.00	0	0	241.17	52
325	J-89	120.00	0	0	241.25	52
495	J-90	120.00	0	0	241.43	53

Howey In The Hills Water System

FlexTable: Junction Table

**Active Scenario: Max Day - Pro Interconnect - WTP No. 1 Off-line + Fire
South 1000**

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
544	J-170	123.00	0	0	244.83	53
502	J-98	122.00	0	0	243.89	53
1178	J-Lake Hills 1	140.00	0	0	261.98	53
1245	J-WTP3-2	140.00	0	0	262.47	53
104	J-92	121.00	0	0	243.96	53
102	J-38	121.00	0	0	243.96	53
576	J-183	118.00	0	0	240.98	53
512	J-96	121.00	0	0	244.11	53
983	J-Venezia 23	105.00	1	12,485	228.14	53
315	J-104	117.00	0	0	240.20	53
978	J-Venezia 18	105.00	1	10,404	228.65	53
643	J-199	119.72	0	0	243.86	54
52	J-Mission Inn 12	125.00	0	0	249.33	54
340	J-97	119.00	1	14,566	243.72	54
110	J-40	116.00	1	11,444	241.01	54
108	J-39	116.00	0	0	241.10	54
319	J-87	115.00	0	0	240.19	54
54	J-Mission Inn 13	124.00	1	37,454	249.33	54
973	J-Venezia 19	102.41	1	11,444	228.57	55
772	J-240	100.95	0	0	227.12	55
1148	J-Watermark 1	100.95	0	0	227.12	55
348	J-95	118.00	1	17,687	244.31	55
897	J-Talichet 1	104.83	0	0	232.13	55
377	J-157	117.00	1	12,485	244.75	55
372	J-143	117.00	1	4,162	244.79	55
809	J-Mission Rise 5	100.08	1	11,093	228.45	56
1053	J-Venezia 2	100.09	0	0	229.95	56
812	J-Mission Rise 6	98.40	1	11,093	228.30	56
442	J-7	128.00	0	0	257.94	56
773	J-Venezia 1	100.12	0	0	230.09	56
334	J-91	113.00	1	4,162	243.07	56
332	J-99	113.00	1	10,404	243.11	56
37	J-5	128.00	0	0	258.42	56
848	J-Mission Rise 18	97.08	1	10,710	227.58	56
106	J-37	112.00	1	5,202	242.66	57
213	J-Venezia 3	99.00	0	0	229.69	57
968	J-Venezia 20	97.78	1	11,444	228.49	57
839	J-Mission Rise 15	96.89	1	10,710	227.61	57
815	J-Mission Rise 7	97.32	1	11,093	228.16	57
612	J-190	104.74	0	0	235.64	57
616	J-191	104.64	1	10,404	235.64	57
31	J-2	128.00	0	0	259.07	57
33	J-4	128.00	0	0	259.08	57

Howey In The Hills Water System

FlexTable: Junction Table

**Active Scenario: Max Day - Pro Interconnect - WTP No. 1 Off-line + Fire
South 1000**

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
35	J-3	128.00	0	0	259.09	57
842	J-Mission Rise 16	96.14	1	10,710	227.61	57
169	J-63	104.00	1	12,485	235.65	57
239	J-132	95.00	0	0	227.06	57
235	J-131	95.00	0	0	227.19	57
702	J-Venezia 4	97.00	1	32,513	229.46	57
1133	J-Venezia 24	95.33	1	16,646	227.99	57
1108	J-Drake Point 3	126.24	1	67,320	259.04	57
895	J-Talichet 2	99.21	0	0	232.13	58
957	J-Venezia 25	95.00	1	10,404	227.92	58
306	J-106	106.00	0	0	239.02	58
786	J-248	102.22	0	0	235.63	58
165	J-60	102.00	1	11,444	235.64	58
167	J-61	102.00	0	0	235.64	58
215	J-77	102.00	0	0	235.64	58
824	J-Mission Rise 10	94.09	1	6,503	227.75	58
827	J-Mission Rise 11	94.06	1	6,503	227.73	58
818	J-Mission Rise 8	94.12	1	11,093	227.86	58
806	J-Mission Rise 4	94.43	1	11,093	228.60	58
1168	J-Venezia TH 1	95.00	0	0	229.60	58
566	J-62	101.00	0	0	235.64	58
1100	J-Golden Hills 1	92.58	1	232,178	227.83	59
881	J-Talichet II 1	94.95	1	5,738	230.29	59
211	J-56	100.22	0	0	235.63	59
1166	J-Venezia TH 2	94.00	1	6,885	229.50	59
156	J-54	100.06	1	2,081	235.63	59
203	J-51	100.00	1	2,081	235.59	59
201	J-52	100.00	0	0	235.60	59
635	J-197	100.00	0	0	235.63	59
963	J-Venezia 21	92.72	1	13,525	228.42	59
704	J-Venezia 5	93.00	0	0	228.75	59
304	J-86	103.00	1	3,121	239.02	59
724	J-220	90.23	0	0	226.62	59
934	J-Talichet 6	95.60	1	3,121	232.12	59
447	J-36	105.00	0	0	241.87	59
930	J-Talichet 3	95.16	1	6,242	232.13	59
245	J-134	90.00	1	10,404	227.05	59
241	J-133	90.00	0	0	227.05	59
932	J-Talichet 4	95.07	1	3,121	232.12	59
845	J-Mission Rise 17	90.35	1	10,710	227.60	59
776	J-Cedar Creek 1	91.69	1	65,408	229.00	59
121	J-32	104.00	1	20,808	241.57	60
836	J-Mission Rise 14	90.07	1	6,503	227.64	60

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 1 Off-line + Fire South 1000

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
357	J-139	107.00	1	15,606	244.59	60
730	J-Venezia 30	90.81	0	0	228.41	60
1152	J-Mission Rise 22	89.96	0	0	227.56	60
123	J-35	104.00	1	12,485	241.72	60
1138	J-Venezia 32	90.74	1	4,162	228.65	60
720	J-Venezia 26	90.00	1	5,202	227.92	60
879	J-Talichet II 2	92.00	1	2,295	230.24	60
830	J-Mission Rise 12	89.37	1	6,503	227.71	60
1035	J-Venezia 34	90.25	1	2,081	228.65	60
1203	J-Venezia TH 3	91.00	1	8,798	229.47	60
1142	J-Mission Rise 1	90.47	0	0	229.02	60
158	J-53	97.00	1	13,525	235.63	60
688	J-209	97.00	1	5,202	235.63	60
803	J-Mission Rise 3	89.89	1	10,710	228.76	60
192	J-50	96.50	1	1,040	235.47	60
800	J-Mission Rise 2	89.97	1	10,710	228.97	60
1106	J-Drake Point 2	120.00	1	67,703	259.04	60
833	J-Mission Rise 13	88.53	1	6,503	227.68	60
851	J-Mission Rise 19	88.36	1	10,710	227.57	60
1043	J-324	95.01	0	0	234.25	60
1041	J-323	94.88	0	0	234.23	60
624	J-194	88.00	1	3,121	227.37	60
732	J-Venezia 31	89.16	1	6,242	228.65	60
154	J-58	96.00	1	1,040	235.64	60
629	J-196	96.00	1	13,525	235.64	60
1004	J-Venezia 12	88.68	1	4,162	228.33	60
876	J-The Reserve 14	89.84	0	0	229.51	60
1129	J-Venezia 10	88.52	1	11,444	228.33	60
1084	J-The Reserve 13	89.69	2	126,225	229.51	60
883	J-Talichet 14	90.88	1	3,121	230.75	61
186	J-49	95.08	1	1,040	234.96	61
1081	J-The Reserve 12	89.60	1	2,295	229.55	61
1078	J-The Reserve 11	89.47	1	2,295	229.60	61
1075	J-The Reserve 10	89.34	2	132,983	229.66	61
1064	J-329	88.47	0	0	228.82	61
607	J-189	95.00	0	0	235.64	61
529	J-156	104.00	0	0	244.64	61
821	J-Mission Rise 9	87.13	1	6,503	227.77	61
534	J-144	104.00	0	0	244.68	61
465	J-78	95.00	0	0	235.69	61
1059	J-Talichet 13	90.07	1	1,040	230.82	61
1157	J-330	87.56	0	0	228.66	61
762	J-234	88.95	0	0	230.13	61

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 1 Off-line + Fire South 1000

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
936	J-Talichet 5	90.78	1	5,202	232.12	61
873	J-The Reserve 8	86.99	0	0	228.56	61
369	J-145	103.00	1	3,121	244.62	61
621	J-193	85.00	1	1,040	226.62	61
738	J-Venezia 33	87.00	1	6,242	228.65	61
507	J-136	102.00	0	0	243.67	61
255	J-79	94.00	1	4,162	235.70	61
994	J-Venezia 22	86.52	1	4,162	228.27	61
952	J-Venezia 29	85.03	1	5,202	226.83	61
1017	J-Venezia 6	86.57	0	0	228.37	61
712	J-215	86.31	0	0	228.33	61
885	J-Talichet 12	88.74	1	2,081	230.87	61
857	J-Mission Rise 21	85.31	1	10,710	227.56	62
706	J-Venezia 7	86.00	0	0	228.34	62
556	J-174	91.00	0	0	233.34	62
893	J-Talichet 7	89.60	1	12,485	232.12	62
854	J-Mission Rise 20	85.00	1	10,710	227.57	62
382	J-158	102.00	1	12,485	244.63	62
194	J-66	93.00	1	3,121	235.67	62
251	J-123	93.00	0	0	235.69	62
728	J-Venezia 28	84.00	0	0	226.83	62
797	J-251	85.79	0	0	229.00	62
793	J-Venezia 35	85.52	0	0	228.76	62
585	J-185	90.00	0	0	233.40	62
914	J-Talichet 17	87.41	1	5,202	230.83	62
790	J-249	85.17	0	0	228.92	62
1097	J-The Reserve 7	85.00	1	92,565	228.79	62
722	J-Venezia 27	83.00	1	11,444	226.83	62
1095	J-The Reserve 6	85.05	1	92,565	228.94	62
1093	J-The Reserve 5	85.01	1	3,825	229.03	62
1091	J-The Reserve 4	85.00	1	3,825	229.12	62
436	J-45	90.00	0	0	234.23	62
1089	J-The Reserve 3	85.01	1	25,628	229.33	62
432	J-44	90.00	0	0	234.35	62
775	J-The Reserve 1	85.21	0	0	229.75	63
1087	J-The Reserve 2	85.05	1	32,895	229.67	63
379	J-155	100.00	1	8,323	244.62	63
152	J-76	91.00	1	8,323	235.74	63
475	J-120	91.00	0	0	235.98	63
887	J-Talichet 11	86.01	1	31,860	231.06	63
718	J-Venezia 11	83.00	1	8,323	228.33	63
581	J-184	93.00	0	0	238.43	63
1205	J-Venezia TH 4	84.00	1	27,540	229.47	63

Howey In The Hills Water System

FlexTable: Junction Table

**Active Scenario: Max Day - Pro Interconnect - WTP No. 1 Off-line + Fire
South 1000**

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
759	J-The Reserve 9	86.74	1	8,798	232.37	63
597	J-187	90.00	0	0	235.68	63
179	J-67	90.00	0	0	235.69	63
910	J-Talichet 15	85.00	1	11,444	230.77	63
912	J-Talichet 16	85.00	1	7,283	230.80	63
1012	J-Venezia 9	82.26	1	6,242	228.33	63
754	J-229	82.11	0	0	228.35	63
480	J-118	90.00	0	0	236.30	63
268	J-81	90.00	1	4,162	236.30	63
708	J-Venezia 8	82.00	1	2,081	228.33	63
889	J-Talichet 10	85.00	1	3,121	231.66	63
198	J-65	89.00	1	5,202	235.67	63
173	J-64	89.00	0	0	235.68	63
1032	J-Venezia 17	81.62	1	2,081	228.33	63
1023	J-Venezia 13	81.45	1	3,121	228.33	64
891	J-Talichet 8	85.00	1	18,727	232.12	64
923	J-Talichet 9	85.00	1	3,121	232.12	64
677	J-WTP1-6	86.25	0	0	233.40	64
678	J-WTP1-5	86.25	0	0	233.40	64
679	J-WTP1-4	86.25	0	0	233.40	64
926	J-295	85.00	1	3,121	232.32	64
716	J-Venezia 16	81.00	1	4,162	228.33	64
133	J-33	91.00	0	0	238.33	64
756	J-Whispering Hills 1	81.37	0	0	228.71	64
549	J-Mitchell 1	85.00	1	13,525	232.37	64
592	J-186	85.00	1	7,283	232.42	64
602	J-188	88.00	0	0	235.68	64
999	J-Venezia 14	80.56	1	4,162	228.33	64
257	J-80	88.00	1	4,162	235.99	64
757	J-231	80.71	0	0	228.76	64
769	J-238	85.00	0	0	233.27	64
710	J-Venezia 15	80.00	1	3,121	228.33	64
554	J-173	84.00	0	0	232.41	64
176	J-75	87.00	0	0	235.72	64
452	J-41	89.00	1	5,202	238.20	65
524	J-154	95.00	0	0	244.55	65
1214	J-Venezia S	79.00	0	0	228.66	65
119	J-29	92.00	1	12,485	241.69	65
181	J-68	86.00	0	0	235.70	65
116	J-28	92.00	0	0	241.76	65
1170	J-369	82.00	0	0	232.37	65
552	J-172	82.00	0	0	232.39	65
470	J-122	85.00	0	0	235.68	65

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 1 Off-line + Fire South 1000

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
141	J-70	85.00	0	0	235.91	65
301	J-85	87.00	0	0	238.03	65
143	J-71	85.00	0	0	236.05	65
231	J-130	77.00	0	0	228.37	65
386	J-153	93.00	1	6,242	244.54	66
388	J-159	93.00	0	0	244.54	66
367	J-146	93.00	1	3,121	244.54	66
457	J-125	82.31	1	10,404	234.31	66
249	J-121	83.00	1	5,202	235.68	66
130	J-31	88.00	0	0	240.73	66
429	J-43	84.00	1	9,364	236.87	66
139	J-42	84.00	0	0	237.10	66
126	J-30	88.00	0	0	241.21	66
404	J-162	91.00	0	0	244.49	66
264	J-117	82.00	0	0	236.30	67
400	J-160	90.00	1	16,646	244.49	67
150	J-74	81.00	1	2,081	235.91	67
273	J-113	81.00	0	0	236.67	67
275	J-82	81.00	0	0	236.67	67
227	J-129	75.00	1	20,808	230.71	67
485	J-108	82.00	0	0	238.03	68
219	J-Island 1	77.00	1	2,081	233.11	68
135	J-34	84.00	1	10,404	240.42	68
407	J-163	88.00	1	3,121	244.49	68
426	J-168	87.00	0	0	244.48	68
402	J-161	87.00	0	0	244.49	68
1068	J-Whispering Hills 3	70.72	1	47,813	228.54	68
1110	J-Lake Hills 12	101.23	0	0	259.19	68
259	J-119	78.00	1	11,444	235.98	68
148	J-73	77.00	0	0	236.61	69
280	J-112	77.00	0	0	236.65	69
112	J-72	77.00	0	0	237.02	69
289	J-84	77.00	0	0	237.06	69
422	J-150	83.00	1	3,121	244.48	70
393	J-151	83.00	1	6,242	244.49	70
391	J-152	83.00	0	0	244.49	70
365	J-147	81.00	1	3,121	244.49	71
1070	J-Whispering Hills 4	65.00	1	11,858	228.53	71
1112	J-Thompson Grove 1	92.46	1	104,040	259.17	72
1102	J-Lake Hills 11	92.23	0	0	259.35	72
1195	J-Lake Hills 10	92.00	1	27,158	259.35	72
419	J-149	77.00	0	0	244.46	72
225	J-Island 3	65.00	1	9,364	233.10	73

Howey In The Hills Water System
FlexTable: Junction Table

**Active Scenario: Max Day - Pro Interconnect - WTP No. 1 Off-line + Fire
 South 1000**

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
262	J-116	68.00	1	15,606	236.30	73
217	J-124	67.00	0	0	235.34	73
360	J-138	76.00	1	11,444	244.45	73
363	J-148	76.00	0	0	244.45	73
292	J-110	68.00	0	0	237.07	73
409	J-164	75.00	1	12,485	244.48	73
313	J-103	70.00	1	19,768	240.20	74
327	J-101	71.00	1	13,525	241.83	74
299	J-107	67.00	1	13,525	238.03	74
221	J-Island 2	62.00	1	4,162	233.10	74
1119	J-Westminster 1	87.02	1	133,875	259.14	74
330	J-100	70.00	1	7,283	242.44	75
413	J-166	72.00	0	0	244.48	75
271	J-115	64.00	1	9,364	236.66	75
286	J-111	64.00	1	1,040	236.92	75
310	J-105	66.00	1	14,566	239.02	75
296	J-109	64.00	0	0	237.07	75
343	J-135	70.00	1	13,525	243.52	75
646	J-200	70.00	0	0	243.67	75
346	J-137	70.00	1	13,525	244.14	75
519	J-169	69.00	0	0	244.47	76
1183	J-Lake Hills 3	84.00	1	27,540	259.68	76
417	J-167	68.00	1	8,323	244.47	76
1184	J-Lake Hills 4	82.00	1	27,540	259.52	77
1177	J-Lake Hills 2	81.00	2	169,575	259.75	77
1188	J-Lake Hills 6	80.00	1	27,158	259.44	78
411	J-165	64.00	1	5,202	244.35	78
1192	J-Lake Hills 7	79.00	1	27,158	259.42	78
1196	J-Lake Hills 9	76.00	1	27,540	259.36	79
1104	J-Drake Point 1	75.00	1	67,703	259.07	80
1187	J-Lake Hills 5	75.00	1	27,158	259.47	80
1114	J-Cypress Point 1	73.64	1	21,038	259.14	80
1189	J-Lake Hills 8	71.00	1	27,158	259.39	82
1116	J-Cypress Point 2	70.02	1	21,038	259.14	82

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 3 Off-Line

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
668	J-WTP1-3	81.00	0	0	82.96	1
666	J-WTP1-2	81.00	0	0	82.96	1
664	J-WTP1-1	81.00	0	0	82.96	1
1248	J-WTP3-1	140.00	0	0	142.00	1
30	J-WTP2-1	130.00	0	0	208.00	34
869	J-Watermark 5	159.36	1	60,053	246.77	38
68	J-Mission Inn 6	154.00	1	16,646	245.14	39
568	J-Mission Inn 5	154.00	0	0	245.20	39
66	J-Mission Inn 10	152.00	0	0	245.12	40
41	J-6	152.00	0	0	245.21	40
355	J-140	152.00	0	0	245.66	41
44	J-8	152.00	1	1,040	245.68	41
46	J-9	151.00	0	0	245.26	41
74	J-Mission Inn 9	150.00	1	4,162	245.14	41
78	J-Mission Inn 4	150.00	0	0	245.27	41
82	J-Mission Inn 3	149.00	0	0	245.27	42
86	J-Mission Inn 2	149.00	1	15,606	245.28	42
70	J-Mission Inn 7	148.00	1	8,323	245.14	42
48	J-Mission Inn 1	148.00	0	0	245.31	42
72	J-Mission Inn 8	146.00	1	4,162	245.14	43
374	J-141	146.00	0	0	245.65	43
764	J-Whispering Hills 2	146.07	0	0	246.67	44
866	J-Watermark 4	145.57	1	9,180	246.77	44
351	J-94	144.00	0	0	245.69	44
1217	J-386	141.00	0	0	245.05	45
1178	J-Lake Hills 1	140.00	0	0	244.37	45
1245	J-WTP3-2	140.00	0	0	244.37	45
1122	J-354	140.00	0	0	244.39	45
539	J-142	141.00	0	0	245.65	45
50	J-Mission Inn 11	134.00	0	0	245.07	48
863	J-Watermark 3	135.17	1	8,415	246.78	48
1162	J-365	135.00	0	0	246.77	48
640	J-198	131.95	0	0	245.73	49
90	J-Mission Inn 14	131.00	0	0	245.50	50
92	J-23	130.00	0	0	245.51	50
94	J-Mission Inn 15	130.00	0	0	245.53	50
96	J-25	130.00	0	0	245.57	50
33	J-4	128.00	0	0	244.38	50
31	J-2	128.00	0	0	244.38	50
35	J-3	128.00	0	0	244.38	50
37	J-5	128.00	0	0	244.43	50
442	J-7	128.00	0	0	244.46	50
114	J-27	129.00	1	15,606	245.67	50
1108	J-Drake Point 3	126.24	1	67,320	243.85	51
100	J-26	128.00	1	3,121	245.64	51

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 3 Off-Line

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
338	J-93	128.00	0	0	245.74	51
52	J-Mission Inn 12	125.00	0	0	245.06	52
54	J-Mission Inn 13	124.00	1	37,454	245.05	52
544	J-170	123.00	0	0	245.64	53
502	J-98	122.00	0	0	245.74	54
1106	J-Drake Point 2	120.00	1	67,703	243.86	54
490	J-102	122.00	0	0	246.02	54
512	J-96	121.00	0	0	245.71	54
102	J-38	121.00	0	0	245.75	54
104	J-92	121.00	0	0	245.75	54
643	J-199	119.72	0	0	245.73	55
495	J-90	120.00	0	0	246.06	55
325	J-89	120.00	0	0	246.09	55
322	J-88	120.00	0	0	246.10	55
340	J-97	119.00	1	14,566	245.74	55
348	J-95	118.00	1	17,687	245.69	55
576	J-183	118.00	0	0	246.11	55
377	J-157	117.00	1	12,485	245.64	56
372	J-143	117.00	1	4,162	245.64	56
315	J-104	117.00	0	0	246.14	56
108	J-39	116.00	0	0	246.13	56
110	J-40	116.00	1	11,444	246.15	56
860	J-Watermark 2	116.57	1	8,415	246.79	56
319	J-87	115.00	0	0	246.16	57
332	J-99	113.00	1	10,404	245.81	57
334	J-91	113.00	1	4,162	245.83	57
106	J-37	112.00	1	5,202	245.95	58
357	J-139	107.00	1	15,606	245.66	60
306	J-106	106.00	0	0	246.28	61
447	J-36	105.00	0	0	246.08	61
529	J-156	104.00	0	0	245.64	61
534	J-144	104.00	0	0	245.64	61
983	J-Venezia 23	105.00	1	12,485	246.76	61
978	J-Venezia 18	105.00	1	10,404	246.83	61
612	J-190	104.74	0	0	246.64	61
616	J-191	104.64	1	10,404	246.65	61
123	J-35	104.00	1	12,485	246.11	61
121	J-32	104.00	1	20,808	246.11	61
369	J-145	103.00	1	3,121	245.64	62
897	J-Talichet 1	104.83	0	0	247.53	62
169	J-63	104.00	1	12,485	246.87	62
1110	J-Lake Hills 12	101.23	0	0	244.22	62
304	J-86	103.00	1	3,121	246.29	62
382	J-158	102.00	1	12,485	245.63	62
507	J-136	102.00	0	0	245.74	62

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 3 Off-Line

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
973	J-Venezia 19	102.41	1	11,444	246.82	62
215	J-77	102.00	0	0	246.60	63
786	J-248	102.22	0	0	246.83	63
165	J-60	102.00	1	11,444	246.84	63
167	J-61	102.00	0	0	246.84	63
379	J-155	100.00	1	8,323	245.64	63
566	J-62	101.00	0	0	246.84	63
772	J-240	100.95	0	0	246.80	63
1148	J-Watermark 1	100.95	0	0	246.80	63
211	J-56	100.22	0	0	246.79	63
635	J-197	100.00	0	0	246.60	63
156	J-54	100.06	1	2,081	246.80	63
809	J-Mission Rise 5	100.08	1	11,093	246.84	63
201	J-52	100.00	0	0	246.96	64
203	J-51	100.00	1	2,081	246.97	64
773	J-Venezia 1	100.12	0	0	247.09	64
1053	J-Venezia 2	100.09	0	0	247.06	64
213	J-Venezia 3	99.00	0	0	247.00	64
895	J-Talichet 2	99.21	0	0	247.55	64
812	J-Mission Rise 6	98.40	1	11,093	246.79	64
968	J-Venezia 20	97.78	1	11,444	246.82	64
815	J-Mission Rise 7	97.32	1	11,093	246.75	65
848	J-Mission Rise 18	97.08	1	10,710	246.73	65
839	J-Mission Rise 15	96.89	1	10,710	246.69	65
688	J-209	97.00	1	5,202	246.81	65
158	J-53	97.00	1	13,525	246.83	65
702	J-Venezia 4	97.00	1	32,513	246.94	65
842	J-Mission Rise 16	96.14	1	10,710	246.69	65
192	J-50	96.50	1	1,040	247.07	65
524	J-154	95.00	0	0	245.64	65
154	J-58	96.00	1	1,040	246.83	65
629	J-196	96.00	1	13,525	246.84	65
1133	J-Venezia 24	95.33	1	16,646	246.77	66
465	J-78	95.00	0	0	246.60	66
235	J-131	95.00	0	0	246.73	66
239	J-132	95.00	0	0	246.73	66
1112	J-Thompson Grove 1	92.46	1	104,040	244.20	66
957	J-Venezia 25	95.00	1	10,404	246.78	66
607	J-189	95.00	0	0	246.83	66
1102	J-Lake Hills 11	92.23	0	0	244.16	66
934	J-Talichet 6	95.60	1	3,121	247.54	66
1168	J-Venezia TH 1	95.00	0	0	246.97	66
1195	J-Lake Hills 10	92.00	1	27,158	244.15	66
881	J-Talichet II 1	94.95	1	5,738	247.13	66
186	J-49	95.08	1	1,040	247.41	66

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 3 Off-Line

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
930	J-Talichet 3	95.16	1	6,242	247.55	66
806	J-Mission Rise 4	94.43	1	11,093	246.90	66
932	J-Talichet 4	95.07	1	3,121	247.54	66
818	J-Mission Rise 8	94.12	1	11,093	246.65	66
824	J-Mission Rise 10	94.09	1	6,503	246.66	66
255	J-79	94.00	1	4,162	246.60	66
827	J-Mission Rise 11	94.06	1	6,503	246.66	66
386	J-153	93.00	1	6,242	245.64	66
388	J-159	93.00	0	0	245.64	66
367	J-146	93.00	1	3,121	245.64	66
1043	J-324	95.01	0	0	247.82	66
1166	J-Venezia TH 2	94.00	1	6,885	246.94	66
1041	J-323	94.88	0	0	247.86	66
581	J-184	93.00	0	0	246.37	66
251	J-123	93.00	0	0	246.59	66
704	J-Venezia 5	93.00	0	0	246.84	67
194	J-66	93.00	1	3,121	246.97	67
1100	J-Golden Hills 1	92.58	1	232,178	246.62	67
116	J-28	92.00	0	0	246.07	67
119	J-29	92.00	1	12,485	246.08	67
963	J-Venezia 21	92.72	1	13,525	246.82	67
404	J-162	91.00	0	0	245.63	67
879	J-Talichet II 2	92.00	1	2,295	247.12	67
776	J-Cedar Creek 1	91.69	1	65,408	247.03	67
475	J-120	91.00	0	0	246.59	67
400	J-160	90.00	1	16,646	245.63	67
133	J-33	91.00	0	0	246.82	67
152	J-76	91.00	1	8,323	246.88	67
1203	J-Venezia TH 3	91.00	1	8,798	246.92	67
730	J-Venezia 30	90.81	0	0	246.82	67
1138	J-Venezia 32	90.74	1	4,162	246.86	68
845	J-Mission Rise 17	90.35	1	10,710	246.70	68
883	J-Talichet 14	90.88	1	3,121	247.27	68
724	J-220	90.23	0	0	246.77	68
1142	J-Mission Rise 1	90.47	0	0	247.06	68
480	J-118	90.00	0	0	246.59	68
268	J-81	90.00	1	4,162	246.59	68
1035	J-Venezia 34	90.25	1	2,081	246.86	68
836	J-Mission Rise 14	90.07	1	6,503	246.68	68
245	J-134	90.00	1	10,404	246.73	68
241	J-133	90.00	0	0	246.73	68
936	J-Talichet 5	90.78	1	5,202	247.54	68
720	J-Venezia 26	90.00	1	5,202	246.78	68
1152	J-Mission Rise 22	89.96	0	0	246.81	68
597	J-187	90.00	0	0	246.96	68

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 3 Off-Line

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
179	J-67	90.00	0	0	246.97	68
803	J-Mission Rise 3	89.89	1	10,710	246.96	68
800	J-Mission Rise 2	89.97	1	10,710	247.04	68
876	J-The Reserve 14	89.84	0	0	246.97	68
1119	J-Westminster 1	87.02	1	133,875	244.17	68
1059	J-Talichet 13	90.07	1	1,040	247.30	68
1084	J-The Reserve 13	89.69	2	126,225	246.94	68
830	J-Mission Rise 12	89.37	1	6,503	246.66	68
1081	J-The Reserve 12	89.60	1	2,295	246.94	68
1078	J-The Reserve 11	89.47	1	2,295	246.95	68
1075	J-The Reserve 10	89.34	2	132,983	246.95	68
407	J-163	88.00	1	3,121	245.63	68
732	J-Venezia 31	89.16	1	6,242	246.86	68
432	J-44	90.00	0	0	247.82	68
452	J-41	89.00	1	5,202	246.84	68
436	J-45	90.00	0	0	247.86	68
173	J-64	89.00	0	0	246.92	68
198	J-65	89.00	1	5,202	246.94	68
893	J-Talichet 7	89.60	1	12,485	247.62	68
556	J-174	91.00	0	0	249.05	68
1004	J-Venezia 12	88.68	1	4,162	246.73	68
762	J-234	88.95	0	0	247.09	68
833	J-Mission Rise 13	88.53	1	6,503	246.67	68
126	J-30	88.00	0	0	246.19	68
1129	J-Venezia 10	88.52	1	11,444	246.73	68
130	J-31	88.00	0	0	246.29	68
851	J-Mission Rise 19	88.36	1	10,710	246.74	69
1064	J-329	88.47	0	0	246.92	69
885	J-Talichet 12	88.74	1	2,081	247.31	69
257	J-80	88.00	1	4,162	246.59	69
402	J-161	87.00	0	0	245.63	69
426	J-168	87.00	0	0	245.63	69
624	J-194	88.00	1	3,121	246.72	69
602	J-188	88.00	0	0	246.92	69
585	J-185	90.00	0	0	249.11	69
1157	J-330	87.56	0	0	246.91	69
301	J-85	87.00	0	0	246.43	69
821	J-Mission Rise 9	87.13	1	6,503	246.66	69
738	J-Venezia 33	87.00	1	6,242	246.86	69
914	J-Talichet 17	87.41	1	5,202	247.30	69
873	J-The Reserve 8	86.99	0	0	246.91	69
176	J-75	87.00	0	0	246.94	69
1183	J-Lake Hills 3	84.00	1	27,540	244.19	69
1017	J-Venezia 6	86.57	0	0	246.76	69
994	J-Venezia 22	86.52	1	4,162	246.76	69

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 3 Off-Line

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
712	J-215	86.31	0	0	246.69	69
706	J-Venezia 7	86.00	0	0	246.76	70
181	J-68	86.00	0	0	247.00	70
797	J-251	85.79	0	0	246.93	70
759	J-The Reserve 9	86.74	1	8,798	248.06	70
793	J-Venezia 35	85.52	0	0	246.89	70
887	J-Talichet 11	86.01	1	31,860	247.38	70
857	J-Mission Rise 21	85.31	1	10,710	246.77	70
470	J-122	85.00	0	0	246.59	70
952	J-Venezia 29	85.03	1	5,202	246.77	70
790	J-249	85.17	0	0	246.92	70
854	J-Mission Rise 20	85.00	1	10,710	246.75	70
621	J-193	85.00	1	1,040	246.77	70
1097	J-The Reserve 7	85.00	1	92,565	246.96	70
1095	J-The Reserve 6	85.05	1	92,565	247.01	70
1093	J-The Reserve 5	85.01	1	3,825	247.05	70
1091	J-The Reserve 4	85.00	1	3,825	247.09	70
1184	J-Lake Hills 4	82.00	1	27,540	244.15	70
775	J-The Reserve 1	85.21	0	0	247.39	70
1089	J-The Reserve 3	85.01	1	25,628	247.19	70
143	J-71	85.00	0	0	247.28	70
910	J-Talichet 15	85.00	1	11,444	247.28	70
912	J-Talichet 16	85.00	1	7,283	247.29	70
1087	J-The Reserve 2	85.05	1	32,895	247.35	70
135	J-34	84.00	1	10,404	246.36	70
141	J-70	85.00	0	0	247.36	70
889	J-Talichet 10	85.00	1	3,121	247.62	70
393	J-151	83.00	1	6,242	245.64	70
422	J-150	83.00	1	3,121	245.64	70
391	J-152	83.00	0	0	245.64	70
728	J-Venezia 28	84.00	0	0	246.77	70
891	J-Talichet 8	85.00	1	18,727	247.77	70
923	J-Talichet 9	85.00	1	3,121	247.80	70
1205	J-Venezia TH 4	84.00	1	27,540	246.91	70
926	J-295	85.00	1	3,121	248.01	71
549	J-Mitchell 1	85.00	1	13,525	248.06	71
429	J-43	84.00	1	9,364	247.08	71
139	J-42	84.00	0	0	247.09	71
592	J-186	85.00	1	7,283	248.11	71
677	J-WTP1-6	86.25	0	0	249.37	71
678	J-WTP1-5	86.25	0	0	249.37	71
679	J-WTP1-4	86.25	0	0	249.37	71
1177	J-Lake Hills 2	81.00	2	169,575	244.21	71
249	J-121	83.00	1	5,202	246.59	71
718	J-Venezia 11	83.00	1	8,323	246.73	71

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 3 Off-Line

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
722	J-Venezia 27	83.00	1	11,444	246.77	71
769	J-238	85.00	0	0	249.05	71
554	J-173	84.00	0	0	248.10	71
1188	J-Lake Hills 6	80.00	1	27,158	244.14	71
457	J-125	82.31	1	10,404	246.58	71
485	J-108	82.00	0	0	246.43	71
1012	J-Venezia 9	82.26	1	6,242	246.73	71
754	J-229	82.11	0	0	246.68	71
264	J-117	82.00	0	0	246.59	71
365	J-147	81.00	1	3,121	245.64	71
708	J-Venezia 8	82.00	1	2,081	246.73	71
1032	J-Venezia 17	81.62	1	2,081	246.70	71
1192	J-Lake Hills 7	79.00	1	27,158	244.14	71
756	J-Whispering Hills 1	81.37	0	0	246.60	71
1023	J-Venezia 13	81.45	1	3,121	246.72	72
273	J-113	81.00	0	0	246.60	72
275	J-82	81.00	0	0	246.60	72
716	J-Venezia 16	81.00	1	4,162	246.70	72
150	J-74	81.00	1	2,081	246.88	72
757	J-231	80.71	0	0	246.60	72
1170	J-369	82.00	0	0	248.06	72
552	J-172	82.00	0	0	248.08	72
999	J-Venezia 14	80.56	1	4,162	246.71	72
710	J-Venezia 15	80.00	1	3,121	246.70	72
1214	J-Venezia S	79.00	0	0	246.91	73
1196	J-Lake Hills 9	76.00	1	27,540	244.14	73
259	J-119	78.00	1	11,444	246.59	73
419	J-149	77.00	0	0	245.64	73
1104	J-Drake Point 1	75.00	1	67,703	243.89	73
1187	J-Lake Hills 5	75.00	1	27,158	244.14	73
219	J-Island 1	77.00	1	2,081	246.57	73
289	J-84	77.00	0	0	246.61	73
363	J-148	76.00	0	0	245.65	73
360	J-138	76.00	1	11,444	245.65	73
231	J-130	77.00	0	0	246.68	73
112	J-72	77.00	0	0	246.70	73
280	J-112	77.00	0	0	246.74	73
148	J-73	77.00	0	0	246.76	73
1114	J-Cypress Point 1	73.64	1	21,038	244.17	74
409	J-164	75.00	1	12,485	245.63	74
227	J-129	75.00	1	20,808	246.57	74
1189	J-Lake Hills 8	71.00	1	27,158	244.14	75
413	J-166	72.00	0	0	245.63	75
1116	J-Cypress Point 2	70.02	1	21,038	244.17	75
327	J-101	71.00	1	13,525	245.94	76

**Howey In The Hills Water System
FlexTable: Junction Table**

Active Scenario: Max Day - Pro Interconnect - WTP No. 3 Off-Line

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
346	J-137	70.00	1	13,525	245.69	76
646	J-200	70.00	0	0	245.73	76
343	J-135	70.00	1	13,525	245.75	76
330	J-100	70.00	1	7,283	245.87	76
1068	J-Whispering Hills 3	70.72	1	47,813	246.60	76
313	J-103	70.00	1	19,768	246.13	76
519	J-169	69.00	0	0	245.64	76
417	J-167	68.00	1	8,323	245.63	77
292	J-110	68.00	0	0	246.59	77
262	J-116	68.00	1	15,606	246.59	77
299	J-107	67.00	1	13,525	246.42	78
217	J-124	67.00	0	0	246.59	78
310	J-105	66.00	1	14,566	246.28	78
411	J-165	64.00	1	5,202	245.50	79
225	J-Island 3	65.00	1	9,364	246.56	79
1070	J-Whispering Hills 4	65.00	1	11,858	246.60	79
296	J-109	64.00	0	0	246.58	79
271	J-115	64.00	1	9,364	246.59	79
286	J-111	64.00	1	1,040	246.59	79
221	J-Island 2	62.00	1	4,162	246.56	80

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 3 Off-Line + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
668	J-WTP1-3	81.00	0	0	82.89	1
666	J-WTP1-2	81.00	0	0	82.90	1
664	J-WTP1-1	81.00	0	0	82.90	1
1248	J-WTP3-1	140.00	0	0	142.00	1
30	J-WTP2-1	130.00	0	0	208.00	34
68	J-Mission Inn 6	154.00	2	2,176,646	237.60	36
568	J-Mission Inn 5	154.00	0	0	239.37	37
66	J-Mission Inn 10	152.00	0	0	238.57	37
74	J-Mission Inn 9	150.00	1	4,162	237.60	38
70	J-Mission Inn 7	148.00	1	8,323	237.60	39
41	J-6	152.00	0	0	243.01	39
78	J-Mission Inn 4	150.00	0	0	241.52	40
72	J-Mission Inn 8	146.00	1	4,162	237.60	40
46	J-9	151.00	0	0	243.13	40
82	J-Mission Inn 3	149.00	0	0	241.60	40
86	J-Mission Inn 2	149.00	1	15,606	241.82	40
48	J-Mission Inn 1	148.00	0	0	243.39	41
44	J-8	152.00	1	1,040	247.59	41
355	J-140	152.00	0	0	247.60	41
869	J-Watermark 5	159.36	1	60,053	258.45	43
1217	J-386	141.00	0	0	241.51	43
1178	J-Lake Hills 1	140.00	0	0	241.07	44
1245	J-WTP3-2	140.00	0	0	241.07	44
1122	J-354	140.00	0	0	241.09	44
374	J-141	146.00	0	0	247.60	44
351	J-94	144.00	0	0	247.58	45
50	J-Mission Inn 11	134.00	0	0	240.32	46
539	J-142	141.00	0	0	247.60	46
764	J-Whispering Hills 2	146.07	0	0	257.81	48
866	J-Watermark 4	145.57	1	9,180	258.49	49
33	J-4	128.00	0	0	241.08	49
35	J-3	128.00	0	0	241.09	49
31	J-2	128.00	0	0	241.09	49
37	J-5	128.00	0	0	241.20	49
442	J-7	128.00	0	0	241.27	49
90	J-Mission Inn 14	131.00	0	0	244.90	49
1108	J-Drake Point 3	126.24	1	67,320	240.55	49
92	J-23	130.00	0	0	245.04	50
94	J-Mission Inn 15	130.00	0	0	245.20	50
52	J-Mission Inn 12	125.00	0	0	240.31	50
640	J-198	131.95	0	0	247.50	50
96	J-25	130.00	0	0	245.57	50
54	J-Mission Inn 13	124.00	1	37,454	240.31	50

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 3 Off-Line + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
114	J-27	129.00	1	15,606	246.53	51
100	J-26	128.00	1	3,121	246.25	51
338	J-93	128.00	0	0	247.47	52
1106	J-Drake Point 2	120.00	1	67,703	240.56	52
863	J-Watermark 3	135.17	1	8,415	258.51	53
1162	J-365	135.00	0	0	258.44	53
544	J-170	123.00	0	0	247.60	54
502	J-98	122.00	0	0	247.71	54
102	J-38	121.00	0	0	247.17	55
104	J-92	121.00	0	0	247.31	55
512	J-96	121.00	0	0	247.78	55
490	J-102	122.00	0	0	249.63	55
643	J-199	119.72	0	0	247.85	55
340	J-97	119.00	1	14,566	247.89	56
348	J-95	118.00	1	17,687	247.72	56
495	J-90	120.00	0	0	249.73	56
325	J-89	120.00	0	0	249.89	56
322	J-88	120.00	0	0	249.97	56
377	J-157	117.00	1	12,485	247.60	57
372	J-143	117.00	1	4,162	247.60	57
576	J-183	118.00	0	0	250.11	57
315	J-104	117.00	0	0	250.67	58
108	J-39	116.00	0	0	250.07	58
110	J-40	116.00	1	11,444	250.16	58
332	J-99	113.00	1	10,404	248.22	59
334	J-91	113.00	1	4,162	248.22	59
319	J-87	115.00	0	0	250.71	59
106	J-37	112.00	1	5,202	248.52	59
1110	J-Lake Hills 12	101.23	0	0	240.92	60
357	J-139	107.00	1	15,606	247.63	61
860	J-Watermark 2	116.57	1	8,415	258.55	61
529	J-156	104.00	0	0	247.60	62
534	J-144	104.00	0	0	247.60	62
447	J-36	105.00	0	0	249.36	62
369	J-145	103.00	1	3,121	247.61	63
123	J-35	104.00	1	12,485	249.53	63
121	J-32	104.00	1	20,808	249.58	63
382	J-158	102.00	1	12,485	247.60	63
306	J-106	106.00	0	0	251.74	63
507	J-136	102.00	0	0	247.93	63
379	J-155	100.00	1	8,323	247.60	64
1112	J-Thompson Grove 1	92.46	1	104,040	240.90	64
1102	J-Lake Hills 11	92.23	0	0	240.86	64

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 3 Off-Line + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
304	J-86	103.00	1	3,121	251.75	64
1195	J-Lake Hills 10	92.00	1	27,158	240.85	64
612	J-190	104.74	0	0	254.59	65
616	J-191	104.64	1	10,404	254.63	65
169	J-63	104.00	1	12,485	255.31	65
215	J-77	102.00	0	0	254.43	66
524	J-154	95.00	0	0	247.60	66
786	J-248	102.22	0	0	255.22	66
165	J-60	102.00	1	11,444	255.26	66
167	J-61	102.00	0	0	255.26	66
983	J-Venezia 23	105.00	1	12,485	258.31	66
978	J-Venezia 18	105.00	1	10,404	258.44	66
1119	J-Westminster 1	87.02	1	133,875	240.88	67
897	J-Talichet 1	104.83	0	0	258.89	67
566	J-62	101.00	0	0	255.26	67
635	J-197	100.00	0	0	254.44	67
386	J-153	93.00	1	6,242	247.60	67
388	J-159	93.00	0	0	247.61	67
367	J-146	93.00	1	3,121	247.61	67
211	J-56	100.22	0	0	255.07	67
156	J-54	100.06	1	2,081	255.12	67
201	J-52	100.00	0	0	255.58	67
203	J-51	100.00	1	2,081	255.59	67
973	J-Venezia 19	102.41	1	11,444	258.44	68
404	J-162	91.00	0	0	247.60	68
1183	J-Lake Hills 3	84.00	1	27,540	240.89	68
116	J-28	92.00	0	0	249.34	68
119	J-29	92.00	1	12,485	249.42	68
400	J-160	90.00	1	16,646	247.60	68
772	J-240	100.95	0	0	258.58	68
1148	J-Watermark 1	100.95	0	0	258.58	68
688	J-209	97.00	1	5,202	255.15	68
158	J-53	97.00	1	13,525	255.22	68
773	J-Venezia 1	100.12	0	0	258.69	69
1053	J-Venezia 2	100.09	0	0	258.66	69
1184	J-Lake Hills 4	82.00	1	27,540	240.85	69
809	J-Mission Rise 5	100.08	1	11,093	258.99	69
154	J-58	96.00	1	1,040	255.22	69
629	J-196	96.00	1	13,525	255.22	69
581	J-184	93.00	0	0	252.35	69
465	J-78	95.00	0	0	254.38	69
192	J-50	96.50	1	1,040	255.96	69
213	J-Venezia 3	99.00	0	0	258.60	69

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 3 Off-Line + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
407	J-163	88.00	1	3,121	247.60	69
895	J-Talichet 2	99.21	0	0	258.96	69
1177	J-Lake Hills 2	81.00	2	169,575	240.91	69
607	J-189	95.00	0	0	255.22	69
255	J-79	94.00	1	4,162	254.38	69
812	J-Mission Rise 6	98.40	1	11,093	258.89	69
402	J-161	87.00	0	0	247.60	69
426	J-168	87.00	0	0	247.60	69
968	J-Venezia 20	97.78	1	11,444	258.45	70
1188	J-Lake Hills 6	80.00	1	27,158	240.84	70
251	J-123	93.00	0	0	254.37	70
815	J-Mission Rise 7	97.32	1	11,093	258.81	70
848	J-Mission Rise 18	97.08	1	10,710	258.59	70
702	J-Venezia 4	97.00	1	32,513	258.55	70
839	J-Mission Rise 15	96.89	1	10,710	258.59	70
1192	J-Lake Hills 7	79.00	1	27,158	240.84	70
126	J-30	88.00	0	0	250.02	70
186	J-49	95.08	1	1,040	257.25	70
842	J-Mission Rise 16	96.14	1	10,710	258.59	70
194	J-66	93.00	1	3,121	255.55	70
133	J-33	91.00	0	0	253.59	70
130	J-31	88.00	0	0	250.62	70
1133	J-Venezia 24	95.33	1	16,646	258.36	71
475	J-120	91.00	0	0	254.21	71
235	J-131	95.00	0	0	258.22	71
239	J-132	95.00	0	0	258.25	71
934	J-Talichet 6	95.60	1	3,121	258.96	71
957	J-Venezia 25	95.00	1	10,404	258.39	71
1168	J-Venezia TH 1	95.00	0	0	258.57	71
930	J-Talichet 3	95.16	1	6,242	258.96	71
932	J-Talichet 4	95.07	1	3,121	258.96	71
1043	J-324	95.01	0	0	258.90	71
480	J-118	90.00	0	0	254.08	71
268	J-81	90.00	1	4,162	254.08	71
881	J-Talichet II 1	94.95	1	5,738	259.03	71
1041	J-323	94.88	0	0	259.02	71
152	J-76	91.00	1	8,323	255.26	71
818	J-Mission Rise 8	94.12	1	11,093	258.62	71
824	J-Mission Rise 10	94.09	1	6,503	258.60	71
827	J-Mission Rise 11	94.06	1	6,503	258.60	71
1166	J-Venezia TH 2	94.00	1	6,885	258.55	71
391	J-152	83.00	0	0	247.60	71
393	J-151	83.00	1	6,242	247.60	71

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 3 Off-Line + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
422	J-150	83.00	1	3,121	247.60	71
806	J-Mission Rise 4	94.43	1	11,093	259.08	71
452	J-41	89.00	1	5,202	253.75	71
1196	J-Lake Hills 9	76.00	1	27,540	240.84	71
704	J-Venezia 5	93.00	0	0	258.44	72
597	J-187	90.00	0	0	255.52	72
179	J-67	90.00	0	0	255.55	72
1104	J-Drake Point 1	75.00	1	67,703	240.59	72
963	J-Venezia 21	92.72	1	13,525	258.45	72
301	J-85	87.00	0	0	252.75	72
1187	J-Lake Hills 5	75.00	1	27,158	240.84	72
1100	J-Golden Hills 1	92.58	1	232,178	258.59	72
257	J-80	88.00	1	4,162	254.21	72
173	J-64	89.00	0	0	255.42	72
198	J-65	89.00	1	5,202	255.48	72
365	J-147	81.00	1	3,121	247.61	72
879	J-Talichet II 2	92.00	1	2,295	259.00	72
135	J-34	84.00	1	10,404	251.03	72
1114	J-Cypress Point 1	73.64	1	21,038	240.87	72
602	J-188	88.00	0	0	255.40	72
1203	J-Venezia TH 3	91.00	1	8,798	258.52	72
730	J-Venezia 30	90.81	0	0	258.45	73
776	J-Cedar Creek 1	91.69	1	65,408	259.34	73
1138	J-Venezia 32	90.74	1	4,162	258.55	73
724	J-220	90.23	0	0	258.40	73
936	J-Talichet 5	90.78	1	5,202	258.96	73
845	J-Mission Rise 17	90.35	1	10,710	258.59	73
245	J-134	90.00	1	10,404	258.25	73
241	J-133	90.00	0	0	258.25	73
1035	J-Venezia 34	90.25	1	2,081	258.55	73
883	J-Talichet 14	90.88	1	3,121	259.27	73
720	J-Venezia 26	90.00	1	5,202	258.40	73
176	J-75	87.00	0	0	255.43	73
836	J-Mission Rise 14	90.07	1	6,503	258.59	73
1152	J-Mission Rise 22	89.96	0	0	258.60	73
876	J-The Reserve 14	89.84	0	0	258.67	73
432	J-44	90.00	0	0	258.84	73
1142	J-Mission Rise 1	90.47	0	0	259.36	73
1084	J-The Reserve 13	89.69	2	126,225	258.67	73
436	J-45	90.00	0	0	259.02	73
1081	J-The Reserve 12	89.60	1	2,295	258.67	73
1078	J-The Reserve 11	89.47	1	2,295	258.69	73
830	J-Mission Rise 12	89.37	1	6,503	258.60	73

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 3 Off-Line + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
1059	J-Talichet 13	90.07	1	1,040	259.31	73
803	J-Mission Rise 3	89.89	1	10,710	259.19	73
800	J-Mission Rise 2	89.97	1	10,710	259.33	73
470	J-122	85.00	0	0	254.36	73
1075	J-The Reserve 10	89.34	2	132,983	258.70	73
732	J-Venezia 31	89.16	1	6,242	258.55	73
1004	J-Venezia 12	88.68	1	4,162	258.18	73
181	J-68	86.00	0	0	255.60	73
1129	J-Venezia 10	88.52	1	11,444	258.18	73
893	J-Talichet 7	89.60	1	12,485	259.30	73
1189	J-Lake Hills 8	71.00	1	27,158	240.84	73
762	J-234	88.95	0	0	258.94	74
833	J-Mission Rise 13	88.53	1	6,503	258.60	74
624	J-194	88.00	1	3,121	258.18	74
1064	J-329	88.47	0	0	258.67	74
851	J-Mission Rise 19	88.36	1	10,710	258.59	74
885	J-Talichet 12	88.74	1	2,081	259.34	74
419	J-149	77.00	0	0	247.62	74
485	J-108	82.00	0	0	252.75	74
1116	J-Cypress Point 2	70.02	1	21,038	240.87	74
139	J-42	84.00	0	0	255.10	74
1157	J-330	87.56	0	0	258.68	74
429	J-43	84.00	1	9,364	255.17	74
143	J-71	85.00	0	0	256.28	74
249	J-121	83.00	1	5,202	254.36	74
821	J-Mission Rise 9	87.13	1	6,503	258.61	74
738	J-Venezia 33	87.00	1	6,242	258.55	74
141	J-70	85.00	0	0	256.60	74
363	J-148	76.00	0	0	247.63	74
360	J-138	76.00	1	11,444	247.63	74
712	J-215	86.31	0	0	257.98	74
873	J-The Reserve 8	86.99	0	0	258.69	74
1017	J-Venezia 6	86.57	0	0	258.28	74
994	J-Venezia 22	86.52	1	4,162	258.28	74
556	J-174	91.00	0	0	262.82	74
914	J-Talichet 17	87.41	1	5,202	259.31	74
264	J-117	82.00	0	0	254.07	74
706	J-Venezia 7	86.00	0	0	258.27	75
457	J-125	82.31	1	10,404	254.72	75
409	J-164	75.00	1	12,485	247.60	75
797	J-251	85.79	0	0	258.67	75
273	J-113	81.00	0	0	253.96	75
275	J-82	81.00	0	0	253.96	75

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 3 Off-Line + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
585	J-185	90.00	0	0	262.96	75
793	J-Venezia 35	85.52	0	0	258.60	75
857	J-Mission Rise 21	85.31	1	10,710	258.60	75
952	J-Venezia 29	85.03	1	5,202	258.40	75
621	J-193	85.00	1	1,040	258.40	75
887	J-Talichet 11	86.01	1	31,860	259.44	75
790	J-249	85.17	0	0	258.67	75
854	J-Mission Rise 20	85.00	1	10,710	258.59	75
1097	J-The Reserve 7	85.00	1	92,565	258.92	75
759	J-The Reserve 9	86.74	1	8,798	260.75	75
1095	J-The Reserve 6	85.05	1	92,565	259.06	75
1093	J-The Reserve 5	85.01	1	3,825	259.15	75
150	J-74	81.00	1	2,081	255.17	75
1091	J-The Reserve 4	85.00	1	3,825	259.24	75
910	J-Talichet 15	85.00	1	11,444	259.28	75
912	J-Talichet 16	85.00	1	7,283	259.29	75
728	J-Venezia 28	84.00	0	0	258.40	75
1089	J-The Reserve 3	85.01	1	25,628	259.45	75
1205	J-Venezia TH 4	84.00	1	27,540	258.52	76
775	J-The Reserve 1	85.21	0	0	259.87	76
1087	J-The Reserve 2	85.05	1	32,895	259.79	76
889	J-Talichet 10	85.00	1	3,121	259.80	76
891	J-Talichet 8	85.00	1	18,727	259.97	76
923	J-Talichet 9	85.00	1	3,121	260.07	76
718	J-Venezia 11	83.00	1	8,323	258.18	76
722	J-Venezia 27	83.00	1	11,444	258.40	76
926	J-295	85.00	1	3,121	260.55	76
413	J-166	72.00	0	0	247.60	76
549	J-Mitchell 1	85.00	1	13,525	260.75	76
592	J-186	85.00	1	7,283	260.81	76
754	J-229	82.11	0	0	257.92	76
1012	J-Venezia 9	82.26	1	6,242	258.19	76
756	J-Whispering Hills 1	81.37	0	0	257.34	76
708	J-Venezia 8	82.00	1	2,081	258.19	76
259	J-119	78.00	1	11,444	254.21	76
1032	J-Venezia 17	81.62	1	2,081	258.01	76
757	J-231	80.71	0	0	257.33	76
1023	J-Venezia 13	81.45	1	3,121	258.14	76
554	J-173	84.00	0	0	260.79	76
289	J-84	77.00	0	0	253.87	77
716	J-Venezia 16	81.00	1	4,162	258.01	77
112	J-72	77.00	0	0	254.08	77
280	J-112	77.00	0	0	254.39	77

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 3 Off-Line + Fire (North)

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
677	J-WTP1-6	86.25	0	0	263.64	77
678	J-WTP1-5	86.25	0	0	263.64	77
679	J-WTP1-4	86.25	0	0	263.64	77
148	J-73	77.00	0	0	254.47	77
999	J-Venezia 14	80.56	1	4,162	258.06	77
346	J-137	70.00	1	13,525	247.76	77
769	J-238	85.00	0	0	262.85	77
646	J-200	70.00	0	0	247.98	77
710	J-Venezia 15	80.00	1	3,121	258.02	77
343	J-135	70.00	1	13,525	248.05	77
219	J-Island 1	77.00	1	2,081	255.09	77
327	J-101	71.00	1	13,525	249.27	77
519	J-169	69.00	0	0	247.61	77
1170	J-369	82.00	0	0	260.75	77
552	J-172	82.00	0	0	260.77	77
330	J-100	70.00	1	7,283	248.79	77
417	J-167	68.00	1	8,323	247.60	78
1214	J-Venezia S	79.00	0	0	258.68	78
313	J-103	70.00	1	19,768	250.63	78
231	J-130	77.00	0	0	257.91	78
227	J-129	75.00	1	20,808	256.09	78
411	J-165	64.00	1	5,202	247.47	79
310	J-105	66.00	1	14,566	251.73	80
299	J-107	67.00	1	13,525	252.74	80
292	J-110	68.00	0	0	253.80	80
262	J-116	68.00	1	15,606	254.07	81
1068	J-Whispering Hills 3	70.72	1	47,813	257.38	81
217	J-124	67.00	0	0	254.47	81
296	J-109	64.00	0	0	253.76	82
286	J-111	64.00	1	1,040	253.88	82
271	J-115	64.00	1	9,364	253.96	82
225	J-Island 3	65.00	1	9,364	255.08	82
1070	J-Whispering Hills 4	65.00	1	11,858	257.38	83
221	J-Island 2	62.00	1	4,162	255.08	84

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 3 Off-Line + Fire South 1000

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
668	J-WTP1-3	81.00	0	0	82.92	1
666	J-WTP1-2	81.00	0	0	82.92	1
664	J-WTP1-1	81.00	0	0	82.93	1
1248	J-WTP3-1	140.00	0	0	142.00	1
30	J-WTP2-1	130.00	0	0	208.00	34
869	J-Watermark 5	159.36	2	1,500,053	239.61	35
68	J-Mission Inn 6	154.00	1	16,646	245.14	39
568	J-Mission Inn 5	154.00	0	0	245.20	39
66	J-Mission Inn 10	152.00	0	0	245.12	40
41	J-6	152.00	0	0	245.21	40
355	J-140	152.00	0	0	245.66	41
44	J-8	152.00	1	1,040	245.67	41
46	J-9	151.00	0	0	245.26	41
866	J-Watermark 4	145.57	1	9,180	240.42	41
74	J-Mission Inn 9	150.00	1	4,162	245.14	41
78	J-Mission Inn 4	150.00	0	0	245.27	41
82	J-Mission Inn 3	149.00	0	0	245.27	42
86	J-Mission Inn 2	149.00	1	15,606	245.28	42
764	J-Whispering Hills 2	146.07	0	0	243.00	42
70	J-Mission Inn 7	148.00	1	8,323	245.14	42
48	J-Mission Inn 1	148.00	0	0	245.31	42
72	J-Mission Inn 8	146.00	1	4,162	245.14	43
374	J-141	146.00	0	0	245.64	43
351	J-94	144.00	0	0	245.69	44
1217	J-386	141.00	0	0	245.05	45
1178	J-Lake Hills 1	140.00	0	0	244.37	45
1245	J-WTP3-2	140.00	0	0	244.37	45
1122	J-354	140.00	0	0	244.39	45
539	J-142	141.00	0	0	245.64	45
1162	J-365	135.00	0	0	239.96	45
863	J-Watermark 3	135.17	1	8,415	240.88	46
50	J-Mission Inn 11	134.00	0	0	245.07	48
640	J-198	131.95	0	0	245.72	49
90	J-Mission Inn 14	131.00	0	0	245.50	50
92	J-23	130.00	0	0	245.51	50
94	J-Mission Inn 15	130.00	0	0	245.53	50
96	J-25	130.00	0	0	245.57	50
33	J-4	128.00	0	0	244.38	50
31	J-2	128.00	0	0	244.38	50
35	J-3	128.00	0	0	244.38	50
37	J-5	128.00	0	0	244.43	50
442	J-7	128.00	0	0	244.46	50
114	J-27	129.00	1	15,606	245.68	50

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 3 Off-Line + Fire South 1000

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
1108	J-Drake Point 3	126.24	1	67,320	243.85	51
100	J-26	128.00	1	3,121	245.64	51
338	J-93	128.00	0	0	245.73	51
52	J-Mission Inn 12	125.00	0	0	245.06	52
54	J-Mission Inn 13	124.00	1	37,454	245.05	52
544	J-170	123.00	0	0	245.63	53
502	J-98	122.00	0	0	245.73	54
1106	J-Drake Point 2	120.00	1	67,703	243.86	54
490	J-102	122.00	0	0	245.99	54
512	J-96	121.00	0	0	245.70	54
102	J-38	121.00	0	0	245.75	54
104	J-92	121.00	0	0	245.75	54
860	J-Watermark 2	116.57	1	8,415	241.93	54
643	J-199	119.72	0	0	245.72	55
495	J-90	120.00	0	0	246.03	55
325	J-89	120.00	0	0	246.06	55
322	J-88	120.00	0	0	246.07	55
340	J-97	119.00	1	14,566	245.73	55
348	J-95	118.00	1	17,687	245.68	55
576	J-183	118.00	0	0	246.08	55
377	J-157	117.00	1	12,485	245.63	56
372	J-143	117.00	1	4,162	245.63	56
315	J-104	117.00	0	0	246.08	56
108	J-39	116.00	0	0	246.11	56
110	J-40	116.00	1	11,444	246.13	56
319	J-87	115.00	0	0	246.10	57
332	J-99	113.00	1	10,404	245.79	57
334	J-91	113.00	1	4,162	245.82	57
106	J-37	112.00	1	5,202	245.95	58
983	J-Venezia 23	105.00	1	12,485	242.95	60
978	J-Venezia 18	105.00	1	10,404	243.53	60
357	J-139	107.00	1	15,606	245.65	60
306	J-106	106.00	0	0	246.18	61
973	J-Venezia 19	102.41	1	11,444	243.48	61
447	J-36	105.00	0	0	246.10	61
772	J-240	100.95	0	0	242.42	61
1148	J-Watermark 1	100.95	0	0	242.42	61
612	J-190	104.74	0	0	246.27	61
529	J-156	104.00	0	0	245.63	61
534	J-144	104.00	0	0	245.63	61
616	J-191	104.64	1	10,404	246.30	61
897	J-Talichet 1	104.83	0	0	246.76	61
123	J-35	104.00	1	12,485	246.13	61

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 3 Off-Line + Fire South 1000

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
121	J-32	104.00	1	20,808	246.13	61
369	J-145	103.00	1	3,121	245.63	62
169	J-63	104.00	1	12,485	246.78	62
1110	J-Lake Hills 12	101.23	0	0	244.22	62
304	J-86	103.00	1	3,121	246.18	62
382	J-158	102.00	1	12,485	245.63	62
507	J-136	102.00	0	0	245.73	62
809	J-Mission Rise 5	100.08	1	11,093	244.11	62
215	J-77	102.00	0	0	246.17	62
786	J-248	102.22	0	0	246.72	63
165	J-60	102.00	1	11,444	246.74	63
167	J-61	102.00	0	0	246.74	63
1053	J-Venezia 2	100.09	0	0	244.84	63
773	J-Venezia 1	100.12	0	0	244.99	63
812	J-Mission Rise 6	98.40	1	11,093	243.93	63
213	J-Venezia 3	99.00	0	0	244.58	63
379	J-155	100.00	1	8,323	245.63	63
968	J-Venezia 20	97.78	1	11,444	243.42	63
566	J-62	101.00	0	0	246.74	63
848	J-Mission Rise 18	97.08	1	10,710	242.93	63
839	J-Mission Rise 15	96.89	1	10,710	243.00	63
635	J-197	100.00	0	0	246.16	63
211	J-56	100.22	0	0	246.61	63
815	J-Mission Rise 7	97.32	1	11,093	243.77	63
156	J-54	100.06	1	2,081	246.64	63
842	J-Mission Rise 16	96.14	1	10,710	242.99	64
201	J-52	100.00	0	0	246.91	64
203	J-51	100.00	1	2,081	246.92	64
239	J-132	95.00	0	0	241.94	64
235	J-131	95.00	0	0	242.05	64
702	J-Venezia 4	97.00	1	32,513	244.34	64
1133	J-Venezia 24	95.33	1	16,646	242.86	64
895	J-Talichet 2	99.21	0	0	246.80	64
957	J-Venezia 25	95.00	1	10,404	242.82	64
827	J-Mission Rise 11	94.06	1	6,503	243.20	65
824	J-Mission Rise 10	94.09	1	6,503	243.24	65
818	J-Mission Rise 8	94.12	1	11,093	243.40	65
1168	J-Venezia TH 1	95.00	0	0	244.48	65
688	J-209	97.00	1	5,202	246.67	65
158	J-53	97.00	1	13,525	246.72	65
806	J-Mission Rise 4	94.43	1	11,093	244.29	65
1166	J-Venezia TH 2	94.00	1	6,885	244.38	65
881	J-Talichet II 1	94.95	1	5,738	245.38	65

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 3 Off-Line + Fire South 1000

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
192	J-50	96.50	1	1,040	247.06	65
704	J-Venezia 5	93.00	0	0	243.61	65
524	J-154	95.00	0	0	245.63	65
963	J-Venezia 21	92.72	1	13,525	243.38	65
154	J-58	96.00	1	1,040	246.72	65
629	J-196	96.00	1	13,525	246.73	65
1100	J-Golden Hills 1	92.58	1	232,178	243.37	65
465	J-78	95.00	0	0	246.17	65
934	J-Talichet 6	95.60	1	3,121	246.79	65
724	J-220	90.23	0	0	241.59	65
930	J-Talichet 3	95.16	1	6,242	246.80	66
607	J-189	95.00	0	0	246.72	66
932	J-Talichet 4	95.07	1	3,121	246.79	66
1112	J-Thompson Grove 1	92.46	1	104,040	244.20	66
1102	J-Lake Hills 11	92.23	0	0	244.16	66
245	J-134	90.00	1	10,404	241.93	66
241	J-133	90.00	0	0	241.93	66
1195	J-Lake Hills 10	92.00	1	27,158	244.15	66
255	J-79	94.00	1	4,162	246.17	66
186	J-49	95.08	1	1,040	247.51	66
730	J-Venezia 30	90.81	0	0	243.37	66
845	J-Mission Rise 17	90.35	1	10,710	242.97	66
386	J-153	93.00	1	6,242	245.63	66
388	J-159	93.00	0	0	245.63	66
367	J-146	93.00	1	3,121	245.63	66
720	J-Venezia 26	90.00	1	5,202	242.82	66
1152	J-Mission Rise 22	89.96	0	0	242.88	66
1138	J-Venezia 32	90.74	1	4,162	243.69	66
836	J-Mission Rise 14	90.07	1	6,503	243.05	66
1043	J-324	95.01	0	0	248.03	66
776	J-Cedar Creek 1	91.69	1	65,408	244.77	66
251	J-123	93.00	0	0	246.14	66
1041	J-323	94.88	0	0	248.10	66
581	J-184	93.00	0	0	246.25	66
879	J-Talichet II 2	92.00	1	2,295	245.34	66
1203	J-Venezia TH 3	91.00	1	8,798	244.36	66
1035	J-Venezia 34	90.25	1	2,081	243.69	66
830	J-Mission Rise 12	89.37	1	6,503	243.17	67
194	J-66	93.00	1	3,121	246.93	67
116	J-28	92.00	0	0	246.09	67
119	J-29	92.00	1	12,485	246.11	67
624	J-194	88.00	1	3,121	242.19	67
1142	J-Mission Rise 1	90.47	0	0	244.79	67

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 3 Off-Line + Fire South 1000

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
1004	J-Venezia 12	88.68	1	4,162	243.04	67
1129	J-Venezia 10	88.52	1	11,444	243.04	67
732	J-Venezia 31	89.16	1	6,242	243.69	67
851	J-Mission Rise 19	88.36	1	10,710	242.92	67
833	J-Mission Rise 13	88.53	1	6,503	243.12	67
803	J-Mission Rise 3	89.89	1	10,710	244.48	67
404	J-162	91.00	0	0	245.62	67
876	J-The Reserve 14	89.84	0	0	244.53	67
800	J-Mission Rise 2	89.97	1	10,710	244.73	67
1084	J-The Reserve 13	89.69	2	126,225	244.54	67
1081	J-The Reserve 12	89.60	1	2,295	244.58	67
883	J-Talichet 14	90.88	1	3,121	245.88	67
1078	J-The Reserve 11	89.47	1	2,295	244.64	67
475	J-120	91.00	0	0	246.19	67
1075	J-The Reserve 10	89.34	2	132,983	244.70	67
1064	J-329	88.47	0	0	244.00	67
400	J-160	90.00	1	16,646	245.62	67
152	J-76	91.00	1	8,323	246.81	67
1059	J-Talichet 13	90.07	1	1,040	245.96	67
133	J-33	91.00	0	0	246.90	67
936	J-Talichet 5	90.78	1	5,202	246.79	67
821	J-Mission Rise 9	87.13	1	6,503	243.27	68
480	J-118	90.00	0	0	246.25	68
268	J-81	90.00	1	4,162	246.25	68
762	J-234	88.95	0	0	245.21	68
1157	J-330	87.56	0	0	243.91	68
994	J-Venezia 22	86.52	1	4,162	243.04	68
1017	J-Venezia 6	86.57	0	0	243.12	68
621	J-193	85.00	1	1,040	241.59	68
712	J-215	86.31	0	0	242.99	68
738	J-Venezia 33	87.00	1	6,242	243.69	68
952	J-Venezia 29	85.03	1	5,202	241.78	68
873	J-The Reserve 8	86.99	0	0	243.86	68
597	J-187	90.00	0	0	246.92	68
179	J-67	90.00	0	0	246.93	68
706	J-Venezia 7	86.00	0	0	243.08	68
1119	J-Westminster 1	87.02	1	133,875	244.17	68
885	J-Talichet 12	88.74	1	2,081	246.01	68
893	J-Talichet 7	89.60	1	12,485	246.95	68
857	J-Mission Rise 21	85.31	1	10,710	242.90	68
407	J-163	88.00	1	3,121	245.62	68
728	J-Venezia 28	84.00	0	0	241.78	68
173	J-64	89.00	0	0	246.86	68

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 3 Off-Line + Fire South 1000

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
198	J-65	89.00	1	5,202	246.89	68
854	J-Mission Rise 20	85.00	1	10,710	242.91	68
452	J-41	89.00	1	5,202	246.93	68
432	J-44	90.00	0	0	248.06	68
436	J-45	90.00	0	0	248.10	68
257	J-80	88.00	1	4,162	246.20	68
126	J-30	88.00	0	0	246.22	68
793	J-Venezia 35	85.52	0	0	243.84	68
797	J-251	85.79	0	0	244.12	69
130	J-31	88.00	0	0	246.33	69
914	J-Talichet 17	87.41	1	5,202	245.96	69
402	J-161	87.00	0	0	245.62	69
426	J-168	87.00	0	0	245.63	69
722	J-Venezia 27	83.00	1	11,444	241.78	69
602	J-188	88.00	0	0	246.85	69
790	J-249	85.17	0	0	244.05	69
556	J-174	91.00	0	0	250.14	69
1097	J-The Reserve 7	85.00	1	92,565	244.24	69
301	J-85	87.00	0	0	246.29	69
1095	J-The Reserve 6	85.05	1	92,565	244.47	69
1093	J-The Reserve 5	85.01	1	3,825	244.60	69
1091	J-The Reserve 4	85.00	1	3,825	244.73	69
176	J-75	87.00	0	0	246.88	69
1089	J-The Reserve 3	85.01	1	25,628	245.04	69
718	J-Venezia 11	83.00	1	8,323	243.04	69
1183	J-Lake Hills 3	84.00	1	27,540	244.19	69
887	J-Talichet 11	86.01	1	31,860	246.22	69
585	J-185	90.00	0	0	250.29	69
1205	J-Venezia TH 4	84.00	1	27,540	244.35	69
775	J-The Reserve 1	85.21	0	0	245.63	69
1087	J-The Reserve 2	85.05	1	32,895	245.52	69
1012	J-Venezia 9	82.26	1	6,242	243.04	70
754	J-229	82.11	0	0	242.99	70
910	J-Talichet 15	85.00	1	11,444	245.90	70
912	J-Talichet 16	85.00	1	7,283	245.93	70
181	J-68	86.00	0	0	246.97	70
708	J-Venezia 8	82.00	1	2,081	243.05	70
470	J-122	85.00	0	0	246.12	70
759	J-The Reserve 9	86.74	1	8,798	248.03	70
1032	J-Venezia 17	81.62	1	2,081	243.00	70
1023	J-Venezia 13	81.45	1	3,121	243.03	70
756	J-Whispering Hills 1	81.37	0	0	243.10	70
889	J-Talichet 10	85.00	1	3,121	246.85	70

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 3 Off-Line + Fire South 1000

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
716	J-Venezia 16	81.00	1	4,162	243.00	70
1184	J-Lake Hills 4	82.00	1	27,540	244.15	70
891	J-Talichet 8	85.00	1	18,727	247.28	70
923	J-Talichet 9	85.00	1	3,121	247.33	70
143	J-71	85.00	0	0	247.39	70
135	J-34	84.00	1	10,404	246.40	70
757	J-231	80.71	0	0	243.12	70
999	J-Venezia 14	80.56	1	4,162	243.01	70
141	J-70	85.00	0	0	247.51	70
393	J-151	83.00	1	6,242	245.63	70
422	J-150	83.00	1	3,121	245.63	70
391	J-152	83.00	0	0	245.63	70
926	J-295	85.00	1	3,121	247.82	70
710	J-Venezia 15	80.00	1	3,121	243.00	71
549	J-Mitchell 1	85.00	1	13,525	248.03	71
592	J-186	85.00	1	7,283	248.08	71
249	J-121	83.00	1	5,202	246.12	71
457	J-125	82.31	1	10,404	245.49	71
429	J-43	84.00	1	9,364	247.19	71
139	J-42	84.00	0	0	247.20	71
1177	J-Lake Hills 2	81.00	2	169,575	244.21	71
554	J-173	84.00	0	0	248.07	71
1188	J-Lake Hills 6	80.00	1	27,158	244.14	71
264	J-117	82.00	0	0	246.25	71
485	J-108	82.00	0	0	246.28	71
677	J-WTP1-6	86.25	0	0	250.81	71
678	J-WTP1-5	86.25	0	0	250.81	71
679	J-WTP1-4	86.25	0	0	250.81	71
365	J-147	81.00	1	3,121	245.63	71
1214	J-Venezia S	79.00	0	0	243.91	71
769	J-238	85.00	0	0	250.12	71
1192	J-Lake Hills 7	79.00	1	27,158	244.14	71
273	J-113	81.00	0	0	246.34	72
275	J-82	81.00	0	0	246.34	72
150	J-74	81.00	1	2,081	246.81	72
231	J-130	77.00	0	0	243.00	72
1170	J-369	82.00	0	0	248.03	72
552	J-172	82.00	0	0	248.05	72
219	J-Island 1	77.00	1	2,081	244.93	73
1196	J-Lake Hills 9	76.00	1	27,540	244.14	73
259	J-119	78.00	1	11,444	246.19	73
419	J-149	77.00	0	0	245.64	73
1104	J-Drake Point 1	75.00	1	67,703	243.89	73

Howey In The Hills Water System

FlexTable: Junction Table

Active Scenario: Max Day - Pro Interconnect - WTP No. 3 Off-Line + Fire South 1000

ID	Label	Elevation (ft)	Unit Demand Collection <Count>	Demand (gpd)	Hydraulic Grade (ft)	Pressure (psi)
227	J-129	75.00	1	20,808	243.89	73
1187	J-Lake Hills 5	75.00	1	27,158	244.14	73
289	J-84	77.00	0	0	246.44	73
112	J-72	77.00	0	0	246.59	73
280	J-112	77.00	0	0	246.63	73
363	J-148	76.00	0	0	245.64	73
360	J-138	76.00	1	11,444	245.64	73
148	J-73	77.00	0	0	246.66	73
1114	J-Cypress Point 1	73.64	1	21,038	244.17	74
409	J-164	75.00	1	12,485	245.62	74
1068	J-Whispering Hills 3	70.72	1	47,813	243.02	75
1189	J-Lake Hills 8	71.00	1	27,158	244.14	75
413	J-166	72.00	0	0	245.62	75
1116	J-Cypress Point 2	70.02	1	21,038	244.17	75
327	J-101	71.00	1	13,525	245.90	76
346	J-137	70.00	1	13,525	245.68	76
646	J-200	70.00	0	0	245.72	76
343	J-135	70.00	1	13,525	245.74	76
330	J-100	70.00	1	7,283	245.84	76
313	J-103	70.00	1	19,768	246.06	76
519	J-169	69.00	0	0	245.63	76
417	J-167	68.00	1	8,323	245.63	77
1070	J-Whispering Hills 4	65.00	1	11,858	243.02	77
262	J-116	68.00	1	15,606	246.25	77
292	J-110	68.00	0	0	246.40	77
217	J-124	67.00	0	0	245.98	77
299	J-107	67.00	1	13,525	246.28	78
225	J-Island 3	65.00	1	9,364	244.92	78
310	J-105	66.00	1	14,566	246.17	78
411	J-165	64.00	1	5,202	245.50	79
271	J-115	64.00	1	9,364	246.33	79
296	J-109	64.00	0	0	246.37	79
286	J-111	64.00	1	1,040	246.38	79
221	J-Island 2	62.00	1	4,162	244.92	79



VIA Email

October 15, 2024

Sean O'Keefe
Town Manager
Town of Howey in the Hills
PO Box 128
Howey in the Hills, FL 34737

Re: **WATER TREATMENT PLANT NO. 3 (HALFF AVO 055783.001)**
CHANGE ORDER NO. 2 – 12" WATER MAIN INTERCONNECTION

Dear Mr. O'Keefe:

Please find enclosed Halff's Change Order for services necessary to complete the above referenced project as requested. This change order is based upon the results of the hydraulic modeling, and that in order to provide fire protection to the entire town, they need to install this 12" water line further looping the two plants. Please be sure to sign page 3 and return to our office.

Should you have any additional questions or concerns in regards to this information, please do not hesitate to contact our office.

Sincerely,
Halff

A handwritten signature in purple ink, appearing to read "Troy Mitchell".

Troy Mitchell, P.E.
Project Manager

enclosure

TM:eb

**CHANGE ORDER REQUEST #2
FOR
TOWN OF HOWEY IN THE HILLS
WATER TREATMENT PLANT NO. 3**

**Halff # 055783.001
September 26, 2024**

The services specified below are required in order to complete the above-referenced project. Based upon the results of the hydraulic modeling effort, in order to serve the Town with fire protection from the new WTP, it is necessary to install a larger, 12-inch waterline between the new facility and the existing 12-inch watermain distribution system on W. Central Avenue to further loop the water system. We have outlined each individual task that is required. Your signature below will constitute approval of said Change Order Request, as previously discussed, which will in turn be incorporated into your existing contract.

PHASE 210 ADDITIONAL SUBSURFACE UTILITY LOCATION

Halff will subcontract with Precise Locating Services, Inc. to designate the horizontal positions of underground utilities.

Horizontal Locations: Precise Locating Services Inc. will provide technicians, equipment and tools to designate the horizontal positions for but not limited to Buried Power, Water, Gas, CATV, Fiber and Telephone as outline on the map provided on 9/24/24 starting at S. Florida Ave east on Central Ave. to N. Dixie Dr. then north to W. Cypress Ave. then east to SR 19 full R/W, then north on SR 19 western right-of-way to the new water plant on CR 48 for a total of approximately 5,650 feet to include the east side of CR 48 at the road crossing.

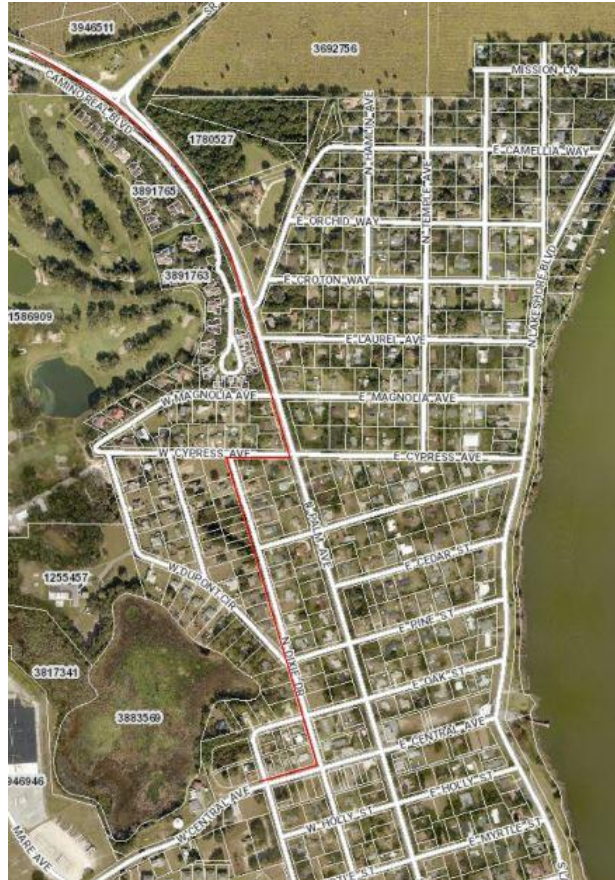
FEE: \$16,950.00

PHASE 310 TOPOGRAPHIC AND ROUTE SURVEY

A Topographic/Route Survey in accordance with 5J-17, Florida Administrative Code, the Standards of Practice for land surveying for the proposed Howey-In-The-Hills water treatment plant will be performed to locate the horizontal and vertical spatial relationship of the above ground man-made or natural features lying within the limits defined in survey exhibit "A" (limits shown in red-approximate length is 5,600 linear feet) sufficient to establish a one-foot contour digital terrain model. The rights of way will be determined for streets shown on said Exhibit "A". Location limits will be full right of way width with an additional 10 feet on adjacent parcels. Accessible drainage structures, gravity sewer lines and associated pipes will be located and detailed. A note will be included on the survey for any structures that are not accessible. A minimum of six (6) site benchmarks (NAVD 88 datum) will be established for this project from existing control. Any above ground features for the existing utilities such as valves, transformers, or fire hydrants along with flagging/markings delineated by others will be located. All trees having a diameter of 6" or larger will be located with size and type (if known) notated. Individual shrubs or ornamental plants will not be located. The topographic survey shall be provided in digital format using Civil3D platform. See Survey Exhibit "A" for approximate topographic survey limits.

FEE: \$61,300.00

Survey Exhibit “A”



Survey Deliverables

1. Autocad Civil3D base file
2. Electronic Files (PDF & AutoCAD) will be released to the client/engineer within 12 months of the date of survey or until the contract is closed.

PHASE 810 CIVIL ENGINEERING DESIGN OF WATERLINE

Halff will prepare final engineering drawings for the proposed 5,650 linear feet of 12” watermain extension along the aforementioned route. The proposed watermain will be installed within the western rights-of-way of CR 48 and SR 19 from the proposed access driveway of WTP No. 3 southward to W. Cypress Avenue, then westward to N. Dixie Drive southward to W. Central Avenue then westward to S. Florida Avenue where it will connect to the existing 12-inch watermain. It is anticipated that the proposed 12-inch watermain will also connect to the existing watermains on cross streets along the route. Plans will include a cover sheet, 30 scale plan view design drawings with aerial background, erosion control plan and force main details.

FEE: \$30,880.00

PHASE 1455 ADDITIONAL FDOT RIGHT OF WAY UTILIZATION PERMIT

Prepare and submit application to FDOT for Right of Way Utilization permit. Permit is required for connection of utilities to be located in existing County owned right of way. Attend meeting(s) with FDOT staff and respond to request for additional information (RAI) in order to obtain permit.

FEE: \$5,440.00

PHASE 1465 ADDITIONAL LAKE COUNTY RIGHT OF WAY UTILIZATION PERMIT

Prepare and submit Lake County Right of Way Utilization permit application, attend DRC meeting(s), address staff review comments, and make plan revisions per staff comments in order to obtain County approval.

FEE: \$4,250.00

PHASE 1605 ADDITIONAL CONSTRUCTION ADMINISTRATION

Halff and our subconsultants will provide construction administration services including:

- Attend and conduct the pre-construction meeting, and compile and distribute meeting notes.
- Attend and conduct monthly construction progress meetings, and compile and distribute meeting notes.
- Review shop drawing submittals.
- Respond to requests for information (RFIs).
- Review change order requests.
- Observe construction progress weekly.
- Prepare a project punch list and verify its completion.
- Certify substantial and final completion.
- Review Contractor Applications for Payment

FEE: \$32,260.00

PHASE 1710 PROJECT ADMINISTRATION

The scope of services shall include administrative services necessary to coordinate all aspects of the project through the planning, design and permitting phase. These services shall include project scheduling with all regulatory agencies and public utility companies during the design and permitting phase of the project. Attend project meetings, conference calls, progress meetings or other meetings and phone calls as needed and requested by the client

FEE: \$6,400.00

PHASE 9999 REIMBURSIBLES

Costs for reimbursibles, including printing, copying, blueprints, binding, FedEx, etc., shall be billed per Exhibit A Section II Compensation per original contract.

FEE: \$5,000.00



Services requested by:

Sean O'Keefe, Town Manager
Town of Howey in the Hills

(Signature required)

Halff

A handwritten signature in blue ink, appearing to read "R. Ern", written over a horizontal line.

Robert A. Ern, Jr., P.E., DBIA
Water/Wastewater Deputy Practice Leader



Date: January 27, 2025

To: Mayor and Town Council

From: John Brock, Deputy Town Manager / Town Clerk

Re: Consideration Approval: **Resolution 2025-002 - Endorsing Mayor Wells Nomination to the FMIT Board of Trustees**

Objective:

To secure the Town Council’s formal endorsement of Mayor Graham Wells’ nomination as a prospective Trustee for the FMIT Board of Trustees and authorize the submission of the necessary documentation to the Florida League of Cities.

Summary:

The Florida Municipal Insurance Trust (FMIT), administered by the Florida League of Cities, is a pooled self-insurance program that provides vital insurance services to municipalities across Florida. Its Board of Trustees oversees the Trust’s operations, ensuring sound financial management and equitable representation for member municipalities.

Mayor Graham Wells’ nomination as a Trustee candidate would provide a voice for the Town of Howey-in-the-Hills and other small municipalities. His extensive experience in municipal governance and financial management, coupled with his commitment to advocating for equitable policies, uniquely positions him to represent the interests of smaller communities that often face distinct challenges within statewide systems.

As Mayor of Howey-in-the-Hills and a Certified Municipal Clerk, Mayor Wells has demonstrated exemplary leadership, fiscal stewardship, and a dedication to enhancing local governance. His presence on the FMIT Board would ensure that the concerns and perspectives of small municipalities like ours are represented in key decisions.

Approval of this resolution will formalize the Town’s support for Mayor Wells’ nomination and authorize staff to submit the necessary documentation by the nomination deadline of February 20, 2025.

Possible Motions:

The Town Council has the following options:

1. Motion to approve Resolution 2025-002.
OR
2. Motion to approve Resolution 2025-002 with specific conditions.
OR
3. Motion to deny Resolution 2025-002.

Fiscal Impact:

There is no fiscal impact associated with this resolution.

Staff Recommendation:

Staff recommends approval of Resolution 2025-002, endorsing Mayor Graham Wells for nomination to the FMIT Board of Trustees.

RESOLUTION 2025-002**A RESOLUTION OF THE TOWN COUNCIL OF HOWEY-IN-THE-HILLS, FLORIDA, ENDORSING THE NOMINATION OF MAYOR GRAHAM WELLS AS A PROSPECTIVE TRUSTEE FOR THE FLORIDA MUNICIPAL INSURANCE TRUST (FMIT) BOARD OF TRUSTEES; PROVIDING FOR TRANSMITTAL TO THE FLORIDA LEAGUE OF CITIES; AND PROVIDING FOR AN EFFECTIVE DATE.**

WHEREAS, the Florida Municipal Insurance Trust (FMIT) is a pooled self-insurance program administered by the Florida League of Cities and comprised of local government entities; and

WHEREAS, the FMIT Board of Trustees oversees the operations of the Trust, ensuring sound financial management and the effective provision of insurance services to participating municipalities; and

WHEREAS, Mayor Graham Wells of Howey-in-the-Hills has demonstrated exemplary leadership, governance expertise, and a commitment to public service, as reflected in his tenure as Mayor and his extensive municipal government experience, including prior service in various administrative capacities; and

WHEREAS, the nomination of Mayor Wells as a prospective Trustee aligns with the commitment of the Town of Howey-in-the-Hills to supporting statewide collaboration and excellence in municipal governance; and

WHEREAS, the Town Council of Howey-in-the-Hills recognizes that Mayor Wells possesses the qualifications and experience necessary to contribute significantly to the FMIT Board of Trustees, including his expertise in financial management, administration, and strategic planning.

NOW, THEREFORE, BE IT RESOLVED BY THE TOWN COUNCIL OF THE TOWN OF HOWEY-IN-THE-HILLS, FLORIDA, AS FOLLOWS:

Section 1. Nomination Endorsement.

The Town Council of Howey-in-the-Hills formally endorses the nomination of Mayor Graham Wells as a prospective Trustee for the Florida Municipal Insurance Trust Board of Trustees.

Section 2. Qualifications Acknowledgment.

The Town Council affirms Mayor Wells’ qualifications for the role, including his Certified Municipal Clerk designation, extensive municipal management experience, and a proven track record of leadership in local government.

Section 3. Transmittal.

The Town Clerk is hereby directed to transmit a certified copy of this Resolution, along with Mayor Wells’ resume and supporting documentation, to the Florida League of Cities, as part of the formal nomination process for the FMIT Board of Trustees.

Section 4. EFFECTIVE DATE.

This Resolution shall take effect immediately upon its adoption.

PASSED AND ADOPTED by the Town Council of the Town of Howey-in-the-Hills, Florida, this 27th day of January, 2025.

**TOWN OF HOWEY-IN-THE-HILLS,
FLORIDA**

By: its Town Council

By: _____
Graham Wells, Mayor

Attest:

John Brock, Town Clerk

Councilor Jon Arnold	_____yea	_____nay
Councilor Reneé Lannamañ	_____yea	_____nay
Councilor David Miles	_____yea	_____nay
Mayor Pro-Tem Tim Everline	_____yea	_____nay
Mayor Graham Wells	_____yea	_____nay

Date: 1/9/2025

To: Participating Municipalities of the Florida Municipal Insurance Trust

From: The Florida League of Cities, as Administrator

RE: Nomination of Trustee(s)

The Florida Municipal Insurance Trust (FMIT) is a pooled self-insurance program whose membership consists of local government entities. The FMIT's Board of Trustees oversees the FMIT's operations, and the Florida League of Cities serves as its Administrator. The purpose of this letter is to solicit nominations for election to the FMIT Board of Trustees.

To qualify as a Trustee, a nominee at the time of appointment and throughout their tenure must be an elected municipal official from a municipality participating in the Trust. Trustee vacancies are filled by the Trust's current Board of Trustees, by majority vote, from the nominees offered by participating municipalities. A nominee may be appointed to fill either a current unexpired term or a full three-year term. Trustees are limited to serving two consecutive three-year terms. (Service in an unexpired term is not counted.)

New Trustees will receive an orientation from the Administrator. The Trust typically meets four times a year, once each quarter; however, special meetings may be scheduled as needed. Trustees are reimbursed for travel, meal and accommodation expenses incurred in attending Trust meetings and also receive a meeting fee.

No Trustee may be selected or continue to serve as a Trustee after becoming an owner, officer, employee or agent of a business entity having a contractual relationship or otherwise doing business with the Trust. A Trustee must relinquish their office or may be removed when they no longer serve as an elected official of the member from which they were selected or when the municipality from which they were selected ceases to participate as a member of the Trust.

The election of Trustees requires a formal nomination process. ***As nominations must come from participating municipalities of the Trust, your nomination should reflect that your municipality's governing body (Council, Commission, etc.) has endorsed or otherwise approved the nominee as a prospective Trustee. In addition, please include a resume or a biographical sketch reflecting the nominee's background and qualifications to serve.***

Should you wish to submit a nomination to the Board of Trustees, please complete the enclosed nomination form and return it, along with a resume or biographical sketch, to Melissa Solis, Insurance Member Services Manager, no later than **Thursday, February 20, 2025**. Thank you.

FLORIDA MUNICIPAL INSURANCE TRUST TRUSTEE NOMINATION FORM

Please indicate the name, title and municipality of your nominee below, along with your name, title and municipality. Nominations should be emailed to msolis@flcities.com.

NOTE: NOMINATIONS MUST BE RECEIVED NO LATER THAN THURSDAY, FEBRUARY 20, 2025.

Nominee Name: _____
(Nominee must be an elected official of the municipality participating in the Trust)

Nominee's Title: _____

Municipality: _____

Cell Phone Number: _____

Email Address: _____

Has the nominee (above) been informed of this nomination? Yes No

Has the nominee's municipal governing body (Council, Commission, etc.) endorsed or otherwise approved the nominee as a prospective Trustee? Yes No

Nominated by: _____

Title: _____

Municipality: _____

Date: _____

**PLEASE EMAIL THIS NOMINATION FORM AND A RESUME OR BIOGRAPHICAL SKETCH
BY THURSDAY, FEBRUARY 20, 2025 TO:**

Melissa Solis
Insurance Member Services Manager
msolis@flcities.com