

STORMWATER NARRATIVE

706 N. Missouri Avenue, Clearwater, FL 33755

The subject property, containing 3.13 ac., has three existing building structures, with the majority of project area consisting of compacted asphalt millings/gravel with some concrete and asphalt areas for parking and access with open space buffer areas along the perimeter of the site. The property is located on the west side of N. Missouri Avenue between Seminole and Eldridge Streets.

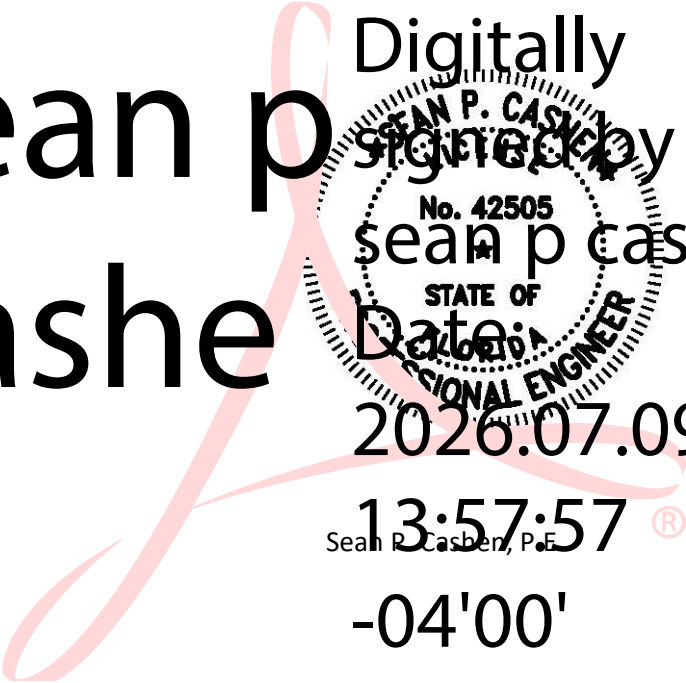
In its existing condition, the site drains towards the streets and driveway that abut this existing development. It appears that approximately 60% of the site drains north towards Seminole Street; approx. 20% of the site drains towards Eldridge Street to the south; about 10% drains east towards N. Missouri Avenue and the remaining 10% of the site area drains towards the private driveway located to the west of the site. The overall site is approximately 66.7% impervious. The pre-development discharge rate for the 25yr-1hr storm event is 8.12 cfs.

The site is remaining as-is with no proposed changes, keeping all buildings and surfaces intact, with no increase or decrease in impervious areas. The proposed post-development discharge rate for the 25yr-1hr storm event will remain at the pre-development rate of 8.12 cfs.

Future development may include a new truck well and loading dock, at which time additional review will be made to accommodate any stormwater requirements.

sean p
cashe
n

Digitally
signed by
sean p cashen
No. 42505
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
Date:
2026.07.09
13:57:57
-04'00'



Existing CN Calculations:

PROJECT: 706 N Missouri Ave

DATE: October 16, 2024

JOB NO: 26-000

BY: KGK

Pre 1 3.13 Ac

	Area (AC)	CN
Pervious - Open Spaces - Type B	1.04	79
Impervious - Gravel/Compacted Asphalt Millings	1.49	98
Impervious- Roofs, Driveways, Patio,etc.	0.60	98
TOTAL	3.13	45.1 ← CN

Existing Conditions Rational C Calculations

Basin: Pre 1

Area: 3.13 Ac

Green Numbers = Info from another spreadsheet

Red Numbers = Calculations

Rational C

Land-Use	Area	Coef	
Open Space - Type B	1.04	0.20	0.21
Gravel	1.49	0.95	1.41
Sidewalks/Roads,etc	0.60	0.95	0.57
Total	3.13		2.19

C= 0.70

Existing Conditions
Rational Method 25 Year Calculations

PROJECT: 706 N Missouri Ave

DATE: July 9, 2026

JOB NO: 26-000

BY: KGK

Blue Numbers	= Input
Red Numbers	= Calculations
Green Numbers	= Input from spreadsheet

Pre1

DRAINAGE AREA =	3.13	ac
'C' PRE-DEVELOPMENT =	0.70	'C'
CONCENTRATION TIME =	1.00	Hours
'I' FOR CT =	3.70	in/hr
'Q' PRE-DEVELOPMENT =	8.12	cfs

Existing Conditions Summary

Project: 706 N Missouri Ave

Date: July 9, 2026

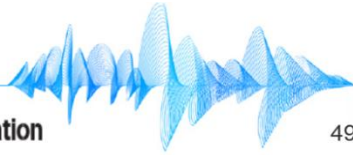
Proj. No: 26-000

By: KGK

Green Numbers = Information taken from another spreadsheet

Site

Basin	Area (SF)	Area (AC)	CN	TOC	"C"
Pre 1	136459.00	3.13	45.1	10	0.70
Total	136459.00	3.13			



Ms. Jasmine McAdams
Development Project Manager
Woodie's Wash Shack
8935 N. Dale Mabry
Tampa, FL 33614 USA

9 July 2026
PJ2026-1477-L02

Subject: **Woodie's Wash Shack** – Car Wash Facility Sound Study & Sound Control Design – Addendum

Reference: **Woodie's Wash Shack** – Car Wash Facility Sound Study & Sound Control Design
BAC Project Letter PJ2026-1477-L01, dated 14 May 2026

Dear Ms. McAdams:

As requested, Brooks Acoustics Corporation (BAC) has conducted an additional predictive sound propagation analysis regarding the proposed *Woodie's Wash Shack Car Wash facility*, to be located at 407 S Saturn Ave Clearwater, FL 33755. The project is in support of the current Application (**Case FLD-2026-02005**) before the City of Clearwater Development Review Committee. This additional study reflects the latest site plan changes per drawings as of 7/7/2026. Specifically, when compared to the referenced sound study (*BAC Project Letter PJ2026-1477-L01*), the following revisions were included in this additional sound study:

- **Relocation of an enclosed vacuum producer** at approx. 40 ft north of its previous location
- **Inclusion of an 6 ft high perimeter privacy wall** along the north property line

The sound propagation study procedures, as well as the considered sound sources and receiver locations, remain otherwise unchanged from those introduced in the referenced *BAC Report Letter PJ2026-1477-L01*.

Additional Sound Study – Results Summary

This sound study, which includes the latest car wash facility site plan revisions, provided the following results:

Results of this sound study, which includes the latest car wash facility site plan revisions, showed that the predicted sound level contributions from the proposed car wash facility, with car wash facility sound control system in place and 6 ft privacy wall along the north property line, are expected to range from **40.4 dBA** to **55.0 dBA** at the various residential and commercial properties that will be in proximity to the proposed *Woodie's Wash Shack Car Wash facility*. These sound levels are expected to **comply** with *local sound regulations* and are expected to be **compatible or below** the *prevailing background sound levels in the area*.

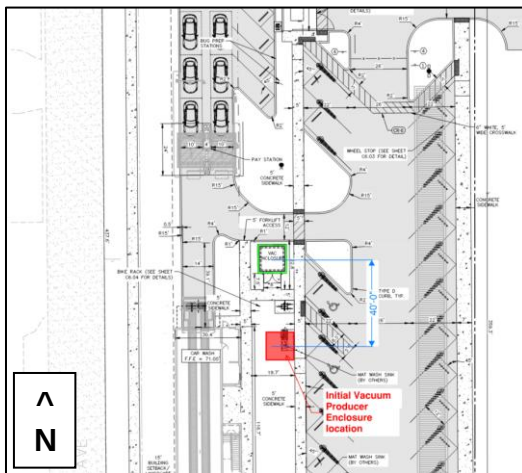
Furthermore, the sound levels predicted at properties to the north of the facility improve on those previously determined in the referenced *BAC Report Letter PJ2026-1477-L01* (sound study regarding previous site planning), due to the addition of the 6 ft privacy wall. Sound levels at properties to the north of the facility are therefore expected to range from 41.0 dBA to 50.6 dBA (~ 1-2 dB improvement due to privacy wall).

Based on these results, it is the opinion of BAC with a reasonable degree of engineering certainty that, with the herein suggested sound mitigation system in place, and with an 6 ft privacy wall at the N PRL, the sound emitted by the operation of the proposed car wash facility will *not be intrusive* and will be *in harmony with the prevailing background sound levels in the area (during daytime / opening hours)*. Furthermore, predicted sound levels are expected to be *in compliance with local sound regulations*. As such, the proposed *Woodie's Wash Shack* facility is expected to have *no significant impact* on the neighboring residences and properties.

Sound Study – Changes to Site Plan

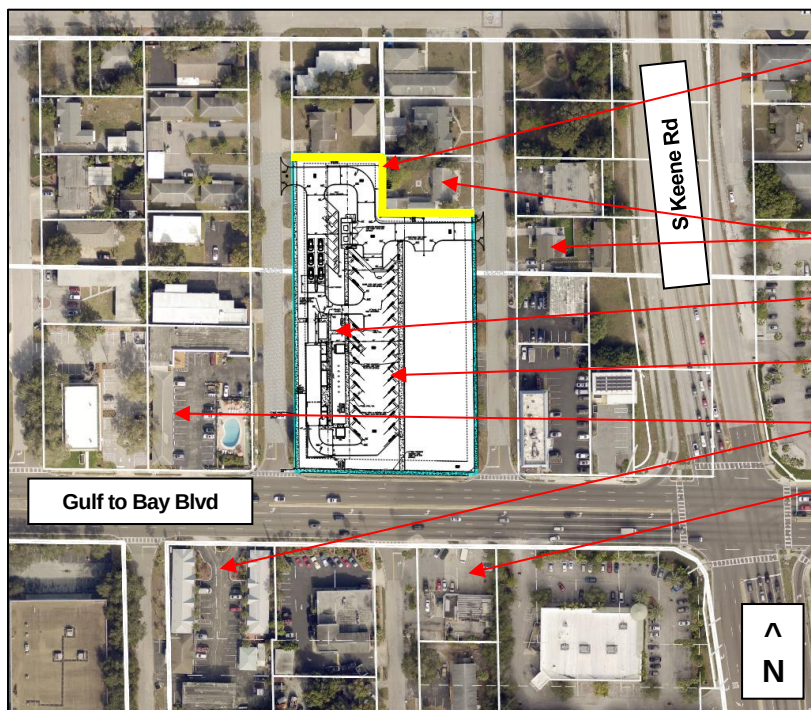
The facility site plan revisions, which are taken into account in this sound study, are as follows:

1. **Relocation of an enclosed vacuum producer** at approx. 40 ft north of its previous location:



Vacuum producer enclosure to the east of the car wash tunnel building moved approx. 40 ft north of its initial location (see referenced Report Letter).

2. **Inclusion of a 6 ft high perimeter privacy wall** along the north property line:



6 ft high privacy wall along N PRL

Private Residences / Apartments

Woodie's Wash Shack – Car Wash Tunnel

Woodie's Wash Shack – Vacuum Stations

Hotels / Motels

Commercial facilities

Sound Propagation Calculations – Results

In total, two (2) additional sound propagation calculations were conducted, in which the site plan revisions are noted in the previous section included. The conducted sound propagation calculations are listed below.

- **Calculation 1-3:** Operating Car Wash Facility only – without Sound Mitigation System
- **Calculation 1-4:** Operating Car Wash Facility only – with Sound Mitigation System

Summary Table Results

A summary table of the calculation results for the operation of the car wash facility, as received at each receiver position, are shown below.

Pos. #	Receiver Position Address	CALCULATION 1-3 Predicted SPL Contribution [dBA] WITHOUT CAR WASH TUNNEL SOUND CONTROL	CALCULATION 1-4 Predicted SPL Contribution [dBA] WITH CAR WASH TUNNEL SOUND CONTROL	Predicted Background Sound Level Range (LA90) [dBA]
1	1736 Gulf to Bay Blvd (Orange Motel Clearwater)	46.1	44.2	53.2 to 59.2
2	400 S Saturn Ave (Apartments)	52.8	51.5	45.5 to 51.5
3	308 S Saturn Ave (Orange Apartments)	48.5	46.9	44.2 to 50.2
4	305 S Saturn Ave (Private Residences)	49.5	48.6	45.2 to 51.2
5	304 S Mars Ave (Private Residences)	43.4	41.0	46.2 to 52.2
6	308 S Mars Ave (Private Residences)	55.2	50.6	49.0 to 55.0
7	309 S Mars Ave (Apartments)	51.0	47.1	46.4 to 52.4
8	401 S Mars Ave (Private Residences)	52.0	48.5	47.1 to 53.1
9	407 S Mars Ave (Apartments)	49.8	47.2	49.5 to 55.5
10	1764 Gulf To Bay Blvd (Papa's New York Diner)	48.6	45.9	50.4 to 56.4
11	1765 Gulf To Bay Blvd (Dollar Tree Store)	59.8	54.4	57.5 to 63.5
12	1755 Gulf to Bay Blvd (Noble Auto Service)	60.4	55.0	57.3 to 63.3
13	1751 Gulf to Bay Blvd (PJ's Auto World Classics)	54.2	49.3	57.1 to 63.1
14	1735 Gulf to Bay Blvd (Delux Inn)	48.4	44.6	56.6 to 52.6

Overall, the predicted sound level contributions of the car wash facility **without sound control system** range from **48.5 dBA to 52.8 dBA** at the *nearest* residential properties to the north and to the west of the facility. The table highlights that these sound levels are **marginally compatible** with the expected prevailing background sound levels (~ 45 to 55 dBA) at some locations that surround the future car wash facility. These results therefore motivate the installation of an adequate sound mitigation measure, such as the one suggested in the previous BAC Report Letter PJ2026-1477-L01 (see reference).

The predicted sound level contributions of the car wash facility **with sound control system** range from **46.9 dBA to 51.5 dBA** at the *nearest* residential properties to the north and to the west of the facility, and as such are expected to be **compatible** with the expected prevailing background sound levels (~ 45 to 55 dBA) across all locations surrounding the future car wash facility (during open / daytime hours).

Based on these results and with consideration of a sound control system installation, it is the opinion of BAC with a reasonable degree of engineering certainty that the sound emitted by the operation of the proposed *Woodie's Wash Shack Car Wash facility* will *not be intrusive* and will be *in harmony with the prevailing background sound levels in the area (daytime hours)*. Accordingly, these sound levels are found to be *in compliance with the City of Clearwater Community Development Code (Sec. 3-1508, "Noise")*. As such, the facility's operation is expected to have *no significant impact* on the neighboring residences and properties.

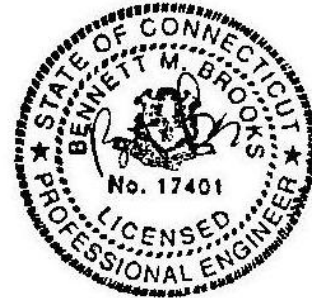
Please contact me if you have any questions concerning these findings.

Very truly yours,
BROOKS ACOUSTICS CORPORATION



Bennett M. Brooks, PE, FASA, INCE
President

Attachments





Parcel Map & Sound Model Overlay
Top View

Scale: 1" = 150' (1:1800)

Notes:

- Simplified 3D model with property lines and lot layouts based on the City of Clearwater FL Zoning Map, dated 05/2026.

- The layout and placement of the proposed car wash facility elements on the Woodie's Wash Shack property is in accordance with the provided site plan drawings, sheet C2.00, developed by The John R. McAdams Company, Inc., dated 7/7/2026.

- Building structures and shapes for neighboring properties in the 3D model are an approximation based on publicly available Google Earth imagery and OpenStreetMap files.

Legend:

■ Sound Source Positions (Car Wash Equipment)

■ Sound Receiver Positions (Adjacent Properties)

BROOKS ACOUSTICS CORP.

49 N. Federal Hwy., #121
Pompano Beach, FL 33062
Tel: 754-229-1450

CLIENT

Woodie's Wash Shack
407 S Saturn Ave
Clearwater, FL 33755

ISSUE

07.09.26

REVISION NO.

0

PROJECT NO.

PJ2025-1477

PROJECT

Car Wash Study

DRAWN BY

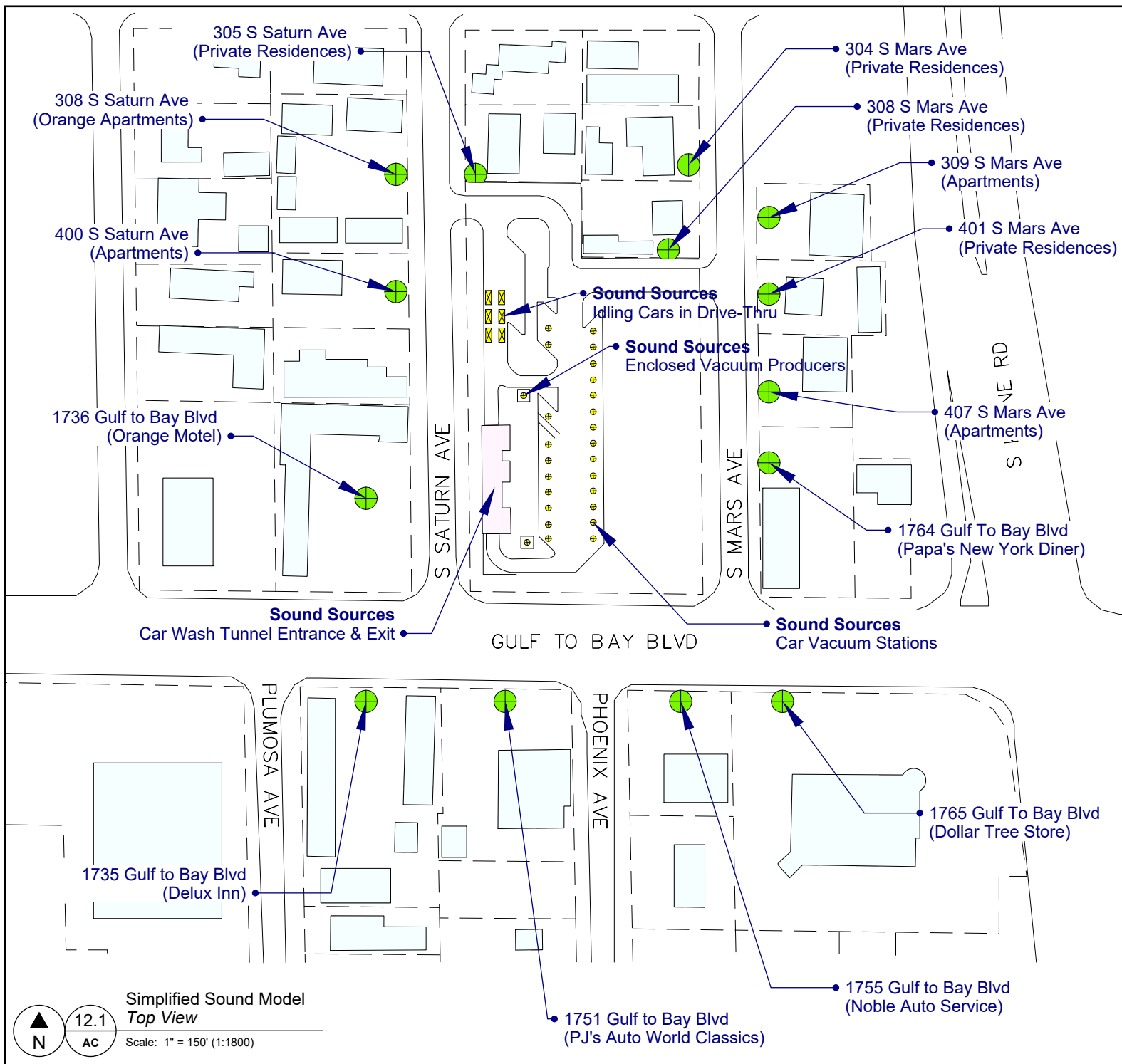
John R. McAdams, M.Sc.
jrm@johnrmc.com

DESCRIPTION

Parcel Map & Sound Model

AC

11



Notes:

- Simplified 3D model with property lines and lot layouts based on the City of Clearwater FL Zoning Map, dated 05/2026.
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Legend:

- Sound Source Positions (Car Wash Equipment)
- Sound Receiver Positions (Adjacent Properties)


 12.1
 AC
 Simplified Sound Model
 Top View
 Scale: 1" = 150' (1:1800)



BROOKS ACOUSTICS CORP.
 49 N. Federal Hwy., #121
 Pompano Beach, FL 33062
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CLIENT
 Woodie's Wash Shack
 407 S Saturn Ave
 Clearwater, FL 33755

ISSUE
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REVISION NO.
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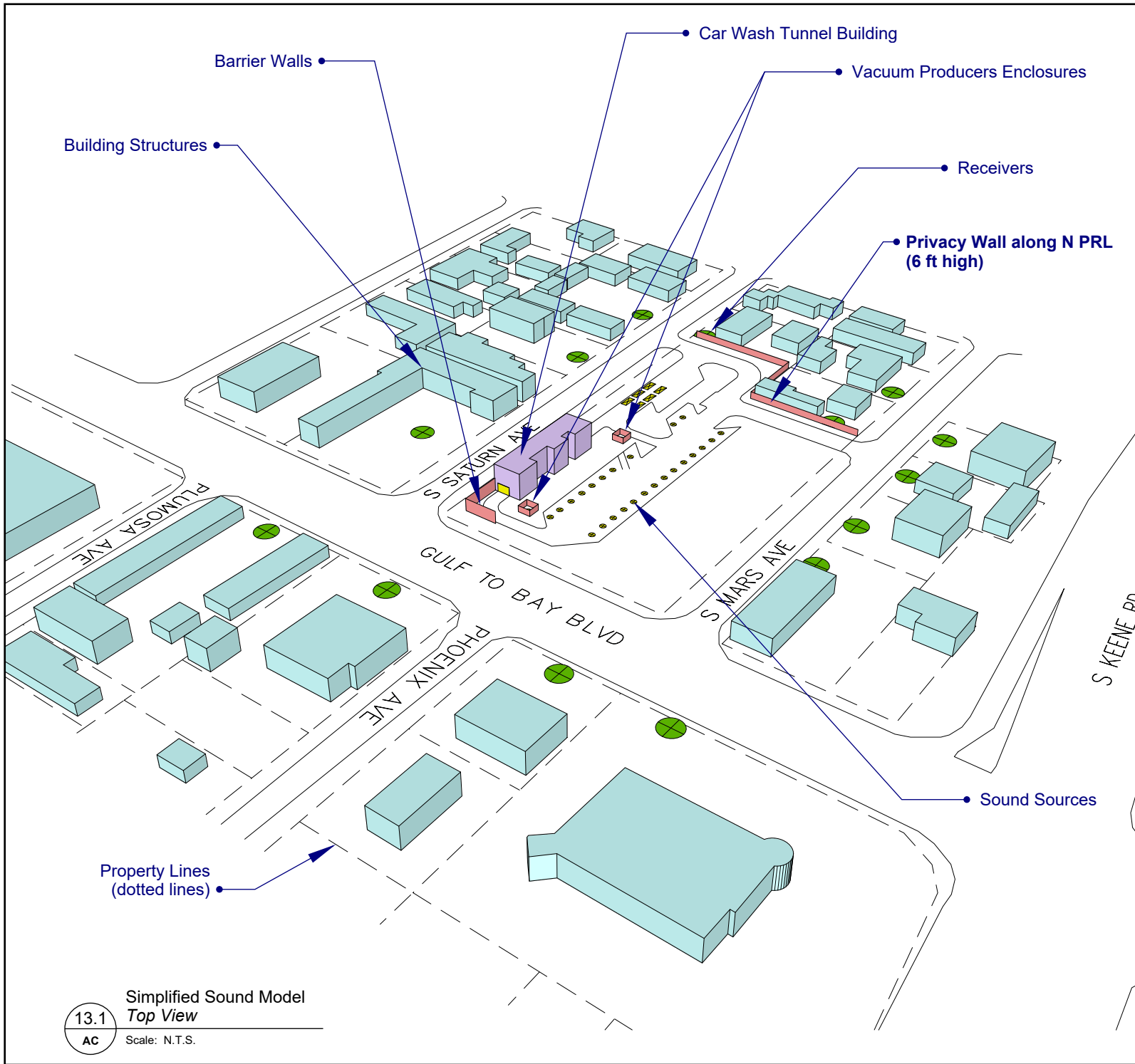
PROJECT NO.
 PJ2025-1477
PROJECT
 Car Wash Study

DRAWN BY
 Dennis Schwabbe, M. Sc.
 dennis@brooksaudio.com

DESCRIPTION
 Sound Model - Top View

AC

12



Notes:

- Simplified 3D model with property lines and lot layouts based on the City of Clearwater FL Zoning Map, dated 05/2026.

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- Building structures and shapes for neighboring properties in the 3D model are an approximation based on publicly available Google Earth imagery and OpenStreetMap files.

Legend:

- Sound Source Positions (Car Wash Equipment)
- Sound Receiver Positions (Adjacent Properties)

Sound Level Map Height: 5'-0" (A-wt)

Sound Propagation Calculation

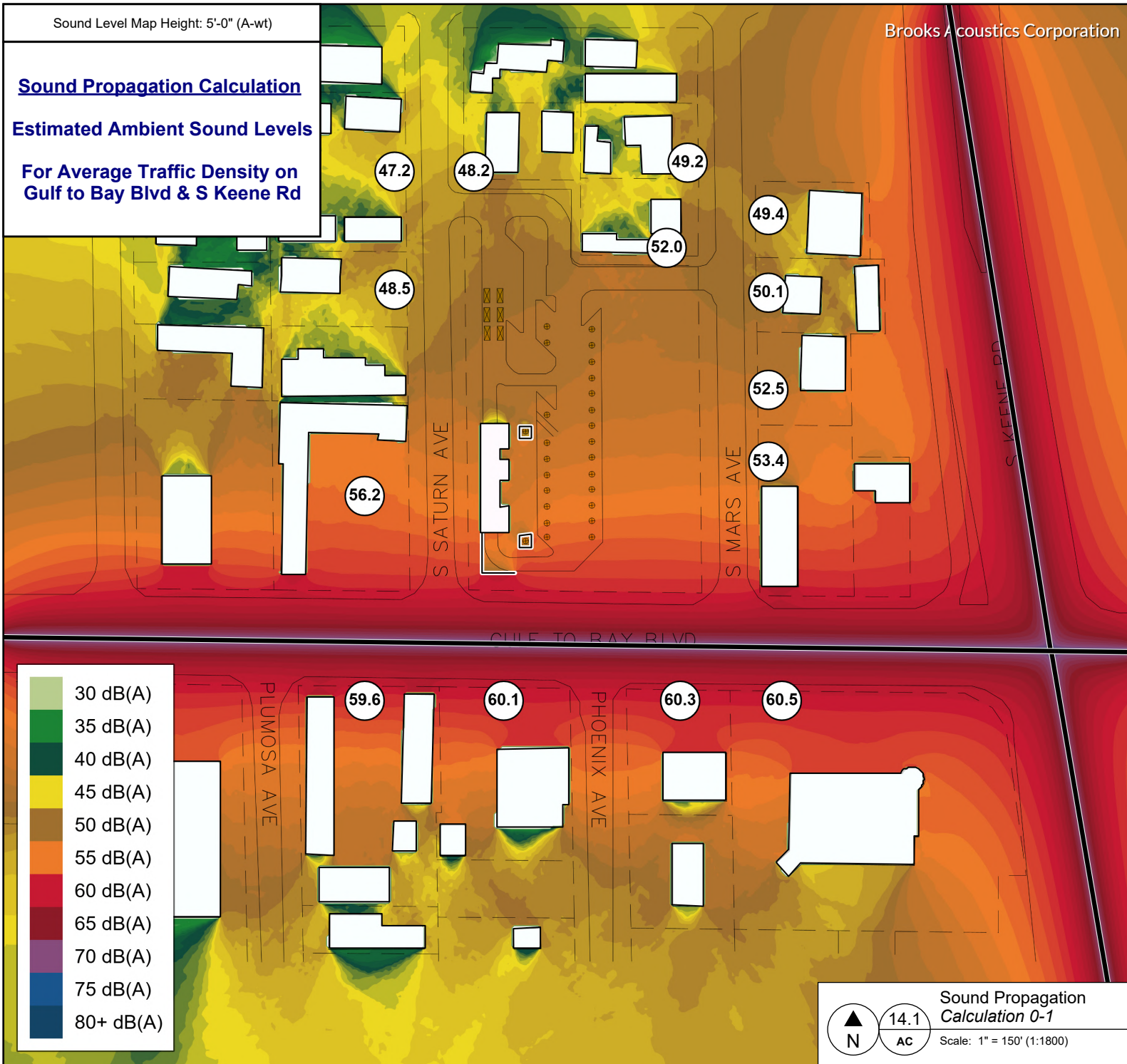
Estimated Ambient Sound Levels

For Average Traffic Density on
Gulf to Bay Blvd & S Keene Rd

Brooks Acoustics Corporation

Notes:

- Sound Map Height: 5'-0" above terrain (A-weighted results).
- Sound Propagation calculation method in accordance with ISO 9613-2:2024 standard.
- Model Sound Sources that are turned **ON** are the Gulf to Bay Blvd and S Keene Rd Line Sound Sources.
- 3D Building geometries are included in this sound propagation model.



Sound Level Map Height: 5'-0" (A-wt)

Sound Propagation Calculation

Busy Car Wash Facility Operation

WITH PRIVACY WALL AT N PRL

WITHOUT CAR WASH TUNNEL SOUND CONTROL

Brooks Acoustics Corporation

Notes:

- Sound Map Height: 5'-0" above terrain (A-weighted results).
- Sound Propagation calculation method in accordance with ISO 9613-2:2024 standard.
- Sound Source Sound Data obtained through manufacturers, similar sound studies or BAC field measurements.
- Model Sound Sources that are turned **ON** are marked with **black crosses**.
- Model Sound Sources that are turned **OFF** are marked with **red crosses**.
- 3D Building geometries are included in this sound propagation model.
- A 6 ft high privacy wall along the north property line is included in this sound propagation model.

BROOKS ACOUSTICS CORP.

CLIENT
Woodie's Wash Shack
407 S Saturn Ave
Clearwater, FL 33755

ISSUE
07.09.26

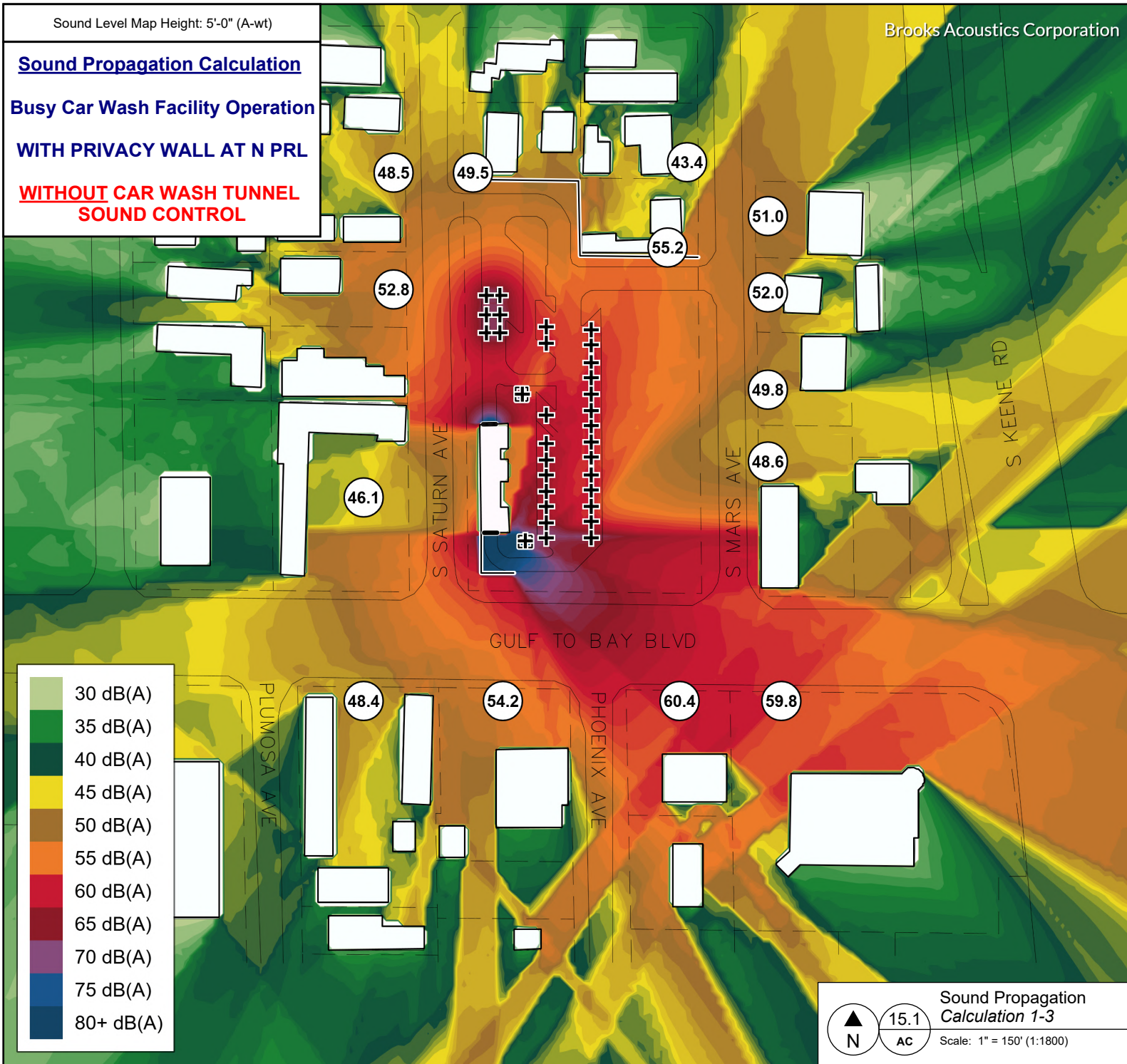
PROJECT NO.
PJ2025-1477

DRAWN BY
J. Schwab, M. Sc.
j.schwab@brooksac.com

DESCRIPTION
Sound Propagation Calc. 1-3

AC

15



Sound Level Map Height: 5'-0" (A-wt)

Sound Propagation Calculation

Busy Car Wash Facility Operation

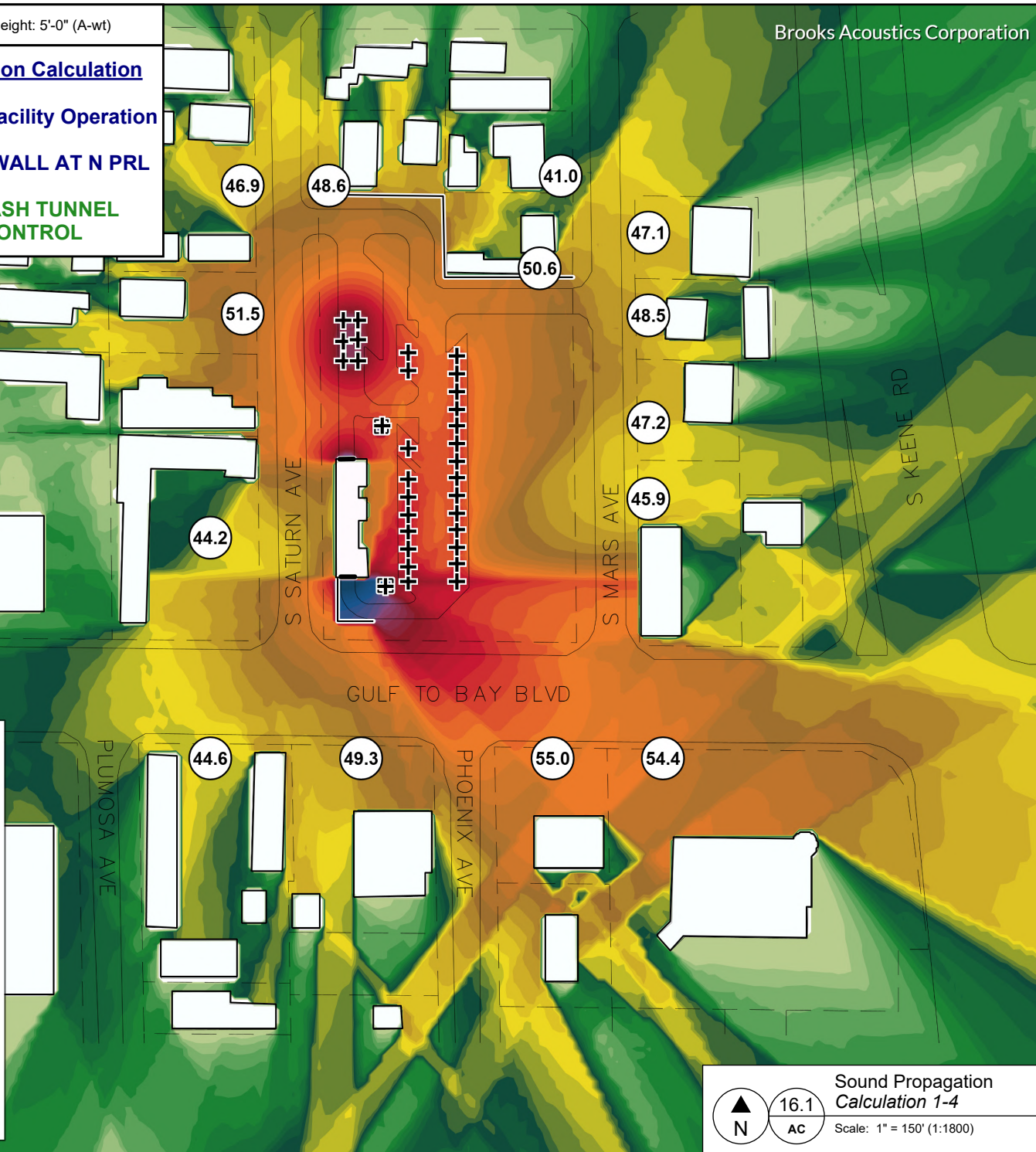
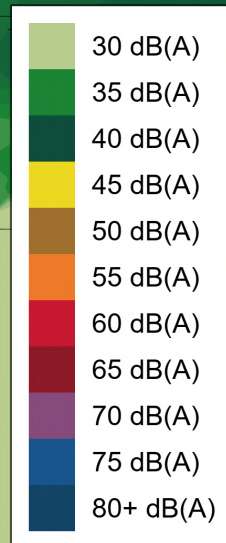
WITH PRIVACY WALL AT N PRL

WITH CAR WASH TUNNEL SOUND CONTROL

Brooks Acoustics Corporation

Notes:

- Sound Map Height: 5'-0" above terrain (A-weighted results).
- Sound Propagation calculation method in accordance with ISO 9613-2:2024 standard.
- Sound Source Sound Data obtained through manufacturers, similar sound studies or BAC field measurements.
- Model Sound Sources that are turned **ON** are marked with **black crosses**.
- Model Sound Sources that are turned **OFF** are marked with **red crosses**.
- 3D Building geometries are included in this sound propagation model.
- A 6 ft high privacy wall along the north property line is included in this sound propagation model.
- Acoustic treatment measures suggested for the car wash tunnel and presented on sheets **AC 18** and **AC 19**, are included in this sound propagation model.



Sound Propagation
Calculation 1-4

Scale: 1" = 150' (1:1800)

BAC
Brooks Acoustics Corporation
"Building a Sound Future"

BROOKS ACOUSTICS CORP.

49 N. Federal Hwy., #121
Pompano Beach, FL 33062
Tel: 754-229-1450

CLIENT

Woodie's Wash Shack
407 S Saturn Ave
Clearwater, FL 33755

ISSUE

07.09.26

REVISION NO.

0

PROJECT NO.

PJ2025-1477

PROJECT

Car Wash Study

DRAWN BY

Wesley Schwabgen, M.Sc.
wesley.schwabgen@brooksac.com

DESCRIPTION

Sound Propagation Calc. 1-4

AC

16

Sound Propagation Results - Summary Table

Pos. #	Receiver Position Address	CALCULATION 1-3 Predicted SPL Contribution [dBA] WITHOUT CAR WASH TUNNEL SOUND CONTROL	CALCULATION 1-4 Predicted SPL Contribution [dBA] WITH CAR WASH TUNNEL SOUND CONTROL	Predicted Background Sound Level Range (LA90) [dBA]
1	1736 Gulf to Bay Blvd (Orange Motel Clearwater)	46.1	44.2	53.2 to 59.2
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11	1765 Gulf To Bay Blvd (Dollar Tree Store)	59.8	54.4	57.5 to 63.5
12	1755 Gulf to Bay Blvd (Noble Auto Service)	60.4	55.0	57.3 to 63.3
13	1751 Gulf to Bay Blvd (PJ's Auto World Classics)	54.2	49.3	57.1 to 63.1
14	1735 Gulf to Bay Blvd (Delux Inn)	48.4	44.6	56.6 to 52.6

Attenuation
Performance,
Sound Level
Reduction

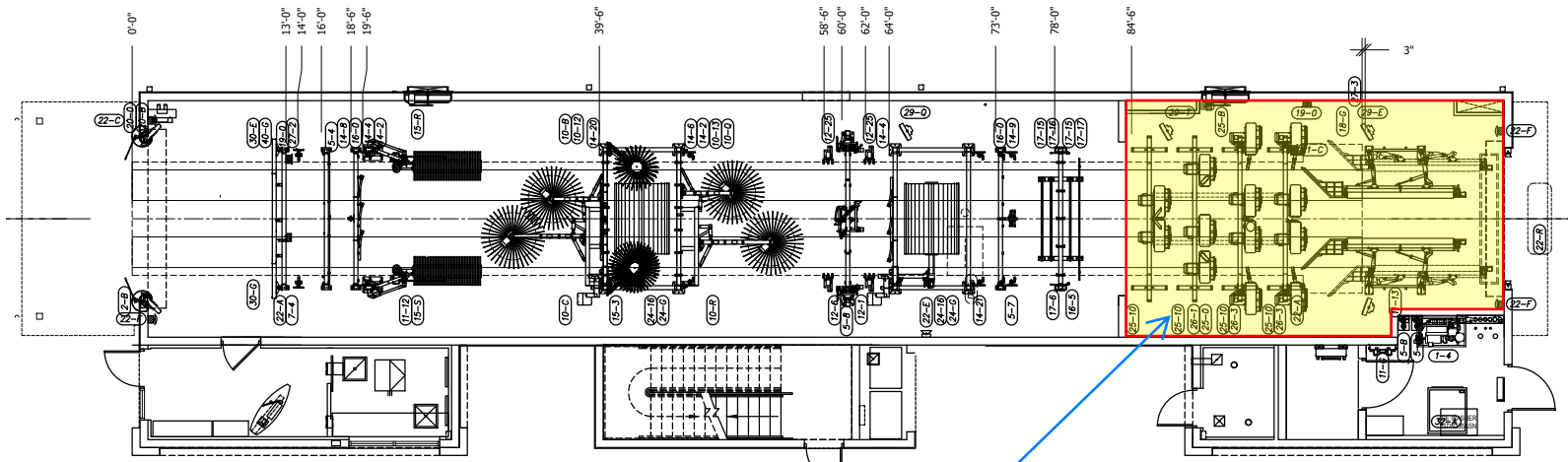
3 to 5 dBA

Sound Pressure Level Contributions of the Woodie's Wash Shack Operation WITH Sound Control System in place are predicted to be:

- Compliant with local sound level limit regulations (City of Clearwater FL - Community Development Code)
- Consistent with or lower than the currently prevailing sound levels in the area (daytime / open hours)

Car Wash Tunnel (Dryer Portion) Sound Mitigation - System Design

Car Wash Tunnel Equipment Drawing - Markup



Scale: 1/16" = 1'-0"

Area to be covered in spray-applied acoustic
plaster, Pyrok Acoustement 40 or similar.
Shall be applied to both side walls and ceiling.

Car Wash Tunnel Area ea as shown shall be finished (interior walls and ceilings) with sound-absorptive spray-applied acoustic plaster such as Pyrok Acoustement 40 to a minimum thickness of 1 5/8".
Estimated Quantity: approx. 1,500 sq. ft.

(Markup Drawing of Sheet 6.1, Equipment Layout, by Sonny's Enterprises, dated 09/26/2025)

Car Wash Tunnel (Dryer Portion) Sound Mitigation - Basis of Design

The following car wash tunnel (dryer portion, near exit) acoustic finish served as basis of design and was assumed throughout the sound propagation calculations:



Pyrok Acoustement 40 Decorative/Acoustical Surfacing Material Product Data

1. Description

Pyrok Acoustement 40 is a nominal 41 PCF (air-dried density) Portland cement/exfoliated vermiculite spray-applied formulation 100% free from asbestos and mineral fibers, polystyrene, and cellulose. Pyrok Acoustement 40 is highly abuse resistant (impact, abrasion, moisture, hostile industrial environments), has excellent adhesion to a variety of substrates, allows substrates to breath and be cleaned by a variety of methods.

2. Uses

Pyrok Acoustement 40 can be used as a decorative surfacing material or as a combination of these qualities even in conjunction as a fireproofing material.

This material is recommended for exterior exposures where resistance to environmental pollution, rain, corrosion, and spalling is required. It may be used in interior exposures where superior abuse resistance is required.

Typically Pyrok Acoustement 40 is specified for transportation facilities, correctional projects, lobbies, atriums, tunnels, natatoriums, gymnasiums, manufacturing facilities, contact wall areas, and any other area requiring high abuse resistance and sound absorption qualities.

It can also be used on interior surfaces of walkways, hallways, and rooms where a purely decorative finish is desired.

Pyrok Acoustement 40 may also be used on ceilings as a combination acoustical finish and fireproofing material.

Custom integral coloration is available within the limits of iron oxide pigmentation.

Physical Performance Properties

Property	Test Method/Authority	Value
Asbestos Content	EPA 400/4M-82-020	No Asbestos No Mineral Fiber
Bond Strength	ASTM E 736	5000 PSF
Compressive Strength	ASTM E 761	300 PSI
Density	Per ASTM E 605	41 PCF (Avg.)
Sound Absorption	ASTM C 423	0.60 NRC @ 1"
Surface Burning	ASTM E 84	0 Flame Spread 0 Smoke Developed
Toxicity	University of Pittsburgh Toxicity Test	LC (50) >300 Grams
Combustibility	ASTM E 136	Non-Combustible

Sound absorption coefficient on solid backing with no air gap ASTM C 423

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
Absorption Coefficient @ 3/8"	0.17	0.20	0.29	0.34	0.56	1.00	0.35
Absorption Coefficient @ 1/2"	0.01	0.20	0.43	0.68	0.75	0.80	0.50
Absorption Coefficient @ 1"	0.18	0.35	0.64	0.73	0.73	0.77	0.60
Absorption Coefficient @ 1 1/2"	0.36	0.51	0.64	0.74	0.84	0.91	0.70
Absorption Coefficient @ 1 5/8"	0.24	0.59	0.74	0.81	0.91	0.97	0.75

Note: The products and manufacturers listed herein are the Basis of Design for this study; similar products from other manufacturers are acceptable, provided their performance is equivalent.

Sound Propagation - Calculation Settings

The settings for the sound propagation calculations were as follows:

Calculation Method ISO 9613-2:2024 (New)

Ground Factor = 0.1G

77.0°F Temperature

70% Humidity

Results are A-weighted

Second order reflections are included

ISO 9613-2 barrier attenuation limit (20/25dB) is enabled

Vertical edges (lateral paths) are included

Limited to convex paths

Limited in distance (ISO 17534-3 recommendation)

Ground reflections are not screened (ISO 17534-3 recommendation)

Sound Propagation - References

References:

ISO 9613-1:1993 — Attenuation of sound during propagation outdoors — Part 1: Calculation of the absorption of sound by the atmosphere

ISO 9613-2:2024 — Attenuation of sound during propagation outdoors — Part 2: Engineering method for the prediction of sound pressure levels outdoors

ISO/TR 17534-3:2015 — Acoustics — Software for the calculation of sound outdoors — Part 3: Recommendations for quality assured implementation of ISO 9613-2 in software according to ISO 17534-1.

WOODIE'S WASH SHACK

CLEARWATER, FLORIDA

TRANSPORTATION IMPACT ANALYSIS

**MAY 12, 2026
(REVISION #1)**

PREPARED FOR:

**WWS CONTRACTING, LLC
2203 N. LOIS AVENUE, SUITE G300
TAMPA, FLORIDA 33607**



RAYSOR
Transportation
Consulting

**19046 Bruce B. Downs Boulevard
Suite 308
Tampa, Florida 33647
(813) 625-1699 | (813) 413-7432 fx
ENB No. 27789**

PROFESSIONAL ENGINEERING CERTIFICATE

I hereby certify that I am a registered professional engineer in the State of Florida, practicing with RAYSOR Transportation Consulting, LLC, a corporation authorized to operate as an engineering business (ENB No. 27789), by the State of Florida Department of Professional Regulation, Board of Professional Engineers, and I have prepared or approved the evaluation, findings, opinions, conclusions, or technical advice hereby reported for:

PROJECT: Woodie's Wash Shack – Clearwater

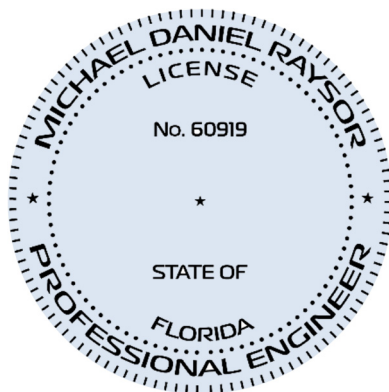
LOCATION: Clearwater, Florida

REPORT TYPE: Transportation Impact Analysis

REPORT DATE: May 12, 2026 (Revision #1)

PREPARED FOR: WWS Contracting, LLC

I acknowledge that the procedures and references used to develop the results contained in this report are standard to the professional practice of transportation engineering as applied through professional judgment and experience.



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE NOT
CONSIDERED SIGNED AND SEALED AND THE
SIGNATURE MUST BE VERIFIED ON ANY
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RAYSOR TRANSPORTATION CONSULTING, LLC
19046 BRUCE B. DOWNS BOULEVARD, #308
TAMPA, FL 33647
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WOODIE'S WASH SHACK

CLEARWATER, FLORIDA

TRANSPORTATION IMPACT ANALYSIS

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WOODIE'S WASH SHACK

CLEARWATER, FLORIDA

TRANSPORTATION IMPACT ANALYSIS

1.0 | INTRODUCTION

This report documents a Transportation Impact Analysis undertaken in association with the proposed development of the **WOODIE'S WASH SHACK - CLEARWATER** project. This analysis was performed in accordance with City of Clearwater and FDOT requirements.

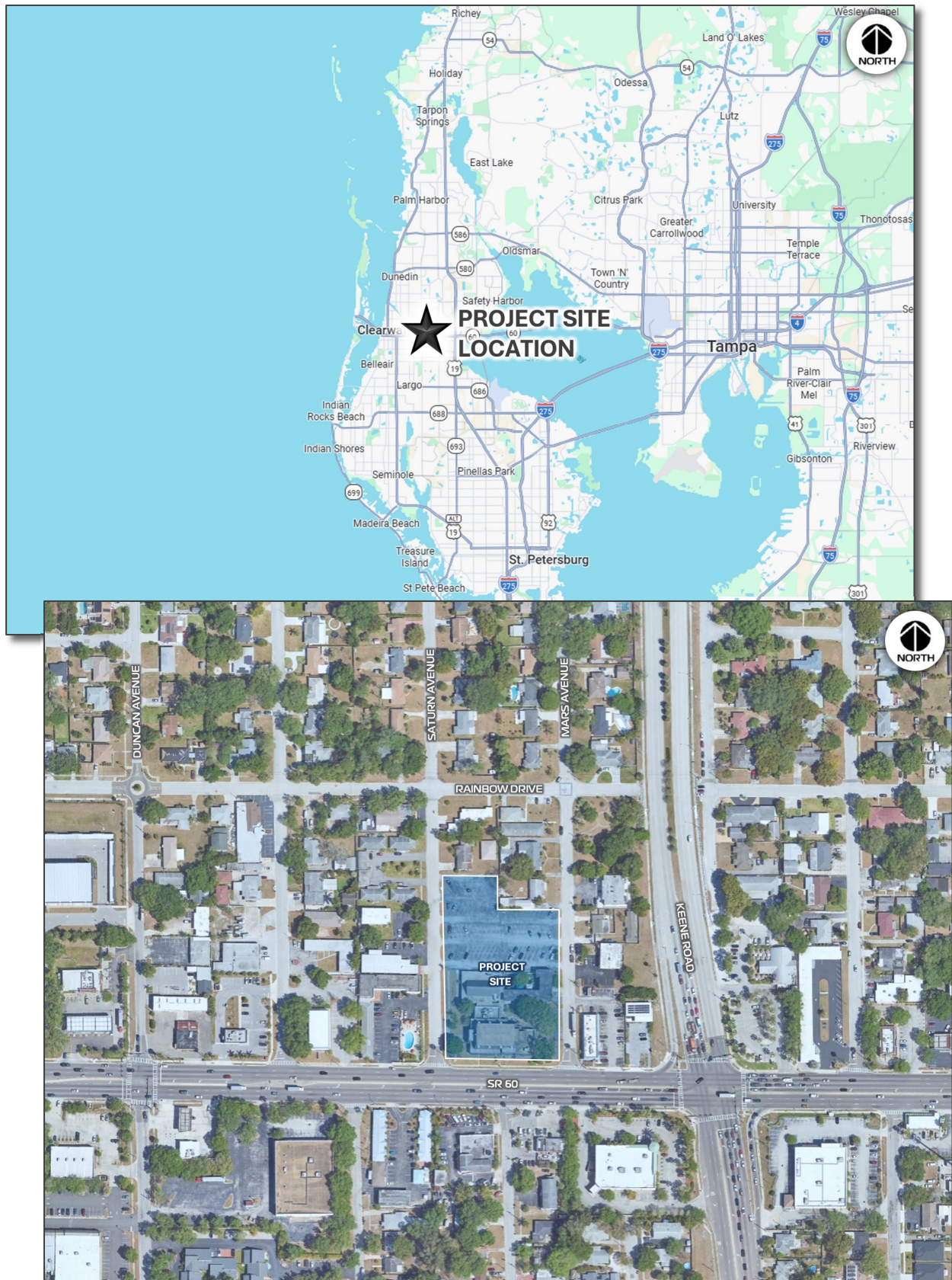
2.0 | PROJECT DESCRIPTION

The subject project site is located on the north side of Gulf to Bay Boulevard (State Road 60), between Mars Avenue and Saturn Avenue, in Clearwater, Florida; as shown in [FIGURE 1.0](#). The project site is proposed for the development of a 6,352 square foot automated car wash, and a 1,025 square foot coffee shop with single-lane drive-through and no indoor seating. Site access is proposed via one driveway connection to Mars Avenue and one driveway connection to Saturn Avenue. Refer to [FIGURE 2.0](#) for the project site concept plan.

3.0 | PROJECT SITE TRIP GENERATION

The daily and peak hour trip generation of the project site was estimated using trip characteristic data in accordance with the Institute of Transportation Engineers (ITE) Trip Generation Manual (12TH EDITION); as summarized in [TABLE 1.0](#), and further documented in [APPENDIX A](#). The resulting trip generation estimate identified 1,790 daily driveway trips (1,628 daily new external trips), with 135 driveway trips (99 new external trips) during the AM peak hour and 170 driveway trips (156 new external trips) during the PM peak hour.

FIGURE 1.0 | PROJECT SITE LOCATION



**407 S SATURN AVE
CONSTRUCTION DRAWINGS
407 S SATURN AVE
CLEARWATER, FL 33755**

CLIENT
WMS CONTRACTING LLC
2320 N. LOS ANGELES STREET SUITE 6300
JANESVILLE, WISCONSIN 53533
PHONE: (888) 559-3555

DESIGNER
THE JAMES R. WILSON COMPANY, INC.
4000 BROADWAY DRIVE
TAMPA, FL 33634
PHONE: 727.798.5000
BRIAN WILSON, CEM, S.E.P., L.S.E.P.
www.jrwilson.com

DATE
11/11/2011

PROJECT NO.
WMS2008

CHECKED BY
XXX

DRAWN BY
XXX

SCALE
1" = 20'

SHEET
4-A-2008

SITE PLAN

REVISIONS

PLAN INFORMATION

NOTES

STRENGTH NOTES

PROPOSED CONSTRUCTION NOTES

SIGN LEGEND

KEY	NO.	DESCRIPTION	SIZE
1	1A-1	STOP	36" x 36"
2	2A-1	ONE WAY	36" x 36"
3	3A-1	ADA ACCESSIBLE	12" x 18"
4	4A-1	DO NOT ENTER	36" x 36"

ALL SIGNS SHALL CONFORM TO THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD PLANS, NO. 700-1 THROUGH 700-10, AND THE STANDARD PLANS INDEX, NO. 700-1 THROUGH 700-10.



TABLE 1.0 | PROJECT SITE TRIP GENERATION ESTIMATE

ITE LUC	Land Use Description	Size	Weekday		AM Peak Hour				PM Peak Hour			
			Rate	Trips	Rate	Trips	Enter	Exit	Rate	Trips	Enter	Exit
938	Coffee Shop w/DT & No Indoor Seats	1 lane	179.00	180	39.81	40	20	20	15.08	15	8	7
948	Automated Car Wash	6,352 sf	253.51	1,610	14.89	95	52	43	24.40	155	76	79
DRIVEWAY TRIPS			--	1,790	--	135	72	63	--	170	84	86
PASS-BY TRIPS (LUC 938)			90%	162	90%	36	18	18	98%	14	7	7
NEW EXTERNAL TRIPS			--	1,628	--	99	54	45	--	156	77	79

4.0 | PROJECT TRAFFIC DISTRIBUTION

The distribution of project generated traffic was estimated based on area development patterns and roadway connectivity (locations of trip attractions & productions relative to the project site); as shown in [FIGURE 3.0](#) and further documented in [APPENDIX B](#).

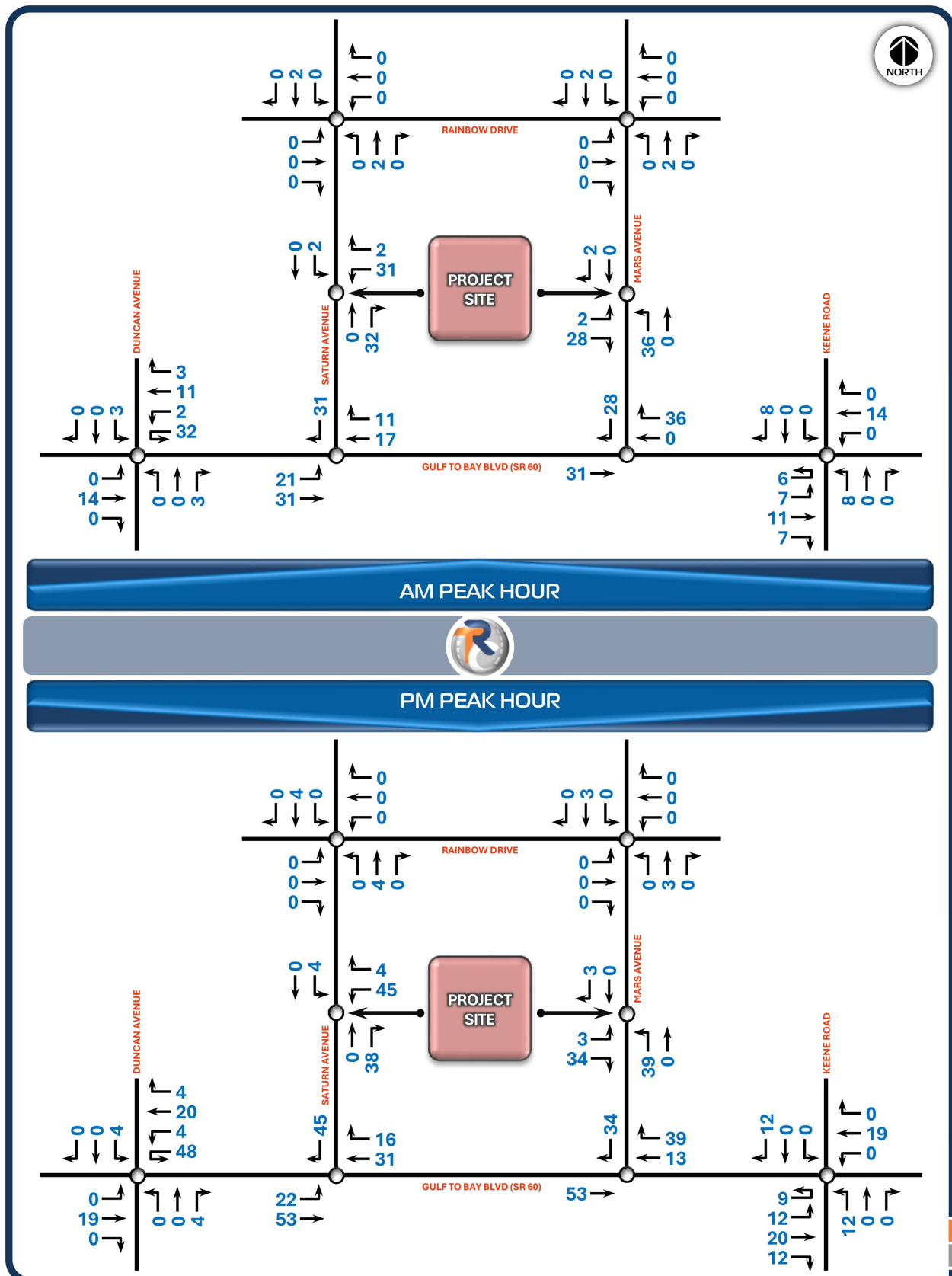
5.0 | STUDY AREA

The study area is required to consist of those regulated roadway segments where peak hour project generated traffic consumes 5% of the peak hour service volume. The study area screening was performed in consideration of generalized capacities pursuant to FDOT's 2023 Multimodal Quality/Level of Service Handbook. It was found that no regulated roadway segments are anticipated to be impacted at the 5% threshold; as documented in [APPENDIX C](#). Therefore, the study area will consist of the two local roads providing access to the project site (Mars Avenue and Saturn Avenue), and the site access related intersections stated below.

- Gulf to Bay Boulevard (SR 60) & Keen Road
- Gulf to Bay Boulevard (SR 60) & Mars Avenue
- Gulf to Bay Boulevard (SR 60) & Saturn Avenue
- Gulf to Bay Boulevard (SR 60) & Duncan Avenue
- Mars Avenue & Rainbow Drive
- Saturn Avenue & Rainbow Drive
- Mars Avenue & Project Driveway
- Saturn Avenue & Project Driveway



FIGURE 3.0 | PROJECT GENERATED PEAK HOUR TRAFFIC VOLUMES (REFER TO APPENDIX B FOR DETAILS)





6.0 | EXISTING CONDITION TRAFFIC VOLUMES

Existing condition traffic volumes for the study area were obtained from traffic counts that were conducted during AM & PM peak periods (7 am to 9 am & 4 pm to 6 pm), and adjusted to reflect peak season conditions using FDOT seasonal adjustment factors; as shown in [FIGURE 4.0](#). Documentation of the traffic counts and peak season conversion factors is provided in [APPENDIX D](#).

7.0 | ANALYSIS HORIZON TRAFFIC VOLUMES

Future year background traffic volumes were calculated to reflect a three year analysis-horizon (2029) using a nominal annual growth rate of 2.0% per year, where this growth rate was used in consideration of the slightly negative historical traffic volume growth trend calculated for the adjacent segment of Gulf to Bay Boulevard (SR 60); as documented in [APPENDIX E](#). The resulting background traffic volumes are shown in [FIGURE 5.0](#).

Post-development (total) traffic volumes were calculated by adding the project generated traffic volumes to the background traffic volumes. The resulting post-development (total) traffic volumes are shown in [FIGURE 6.0](#).

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FIGURE 4.0 | CURRENT PEAK HOUR TRAFFIC VOLUMES

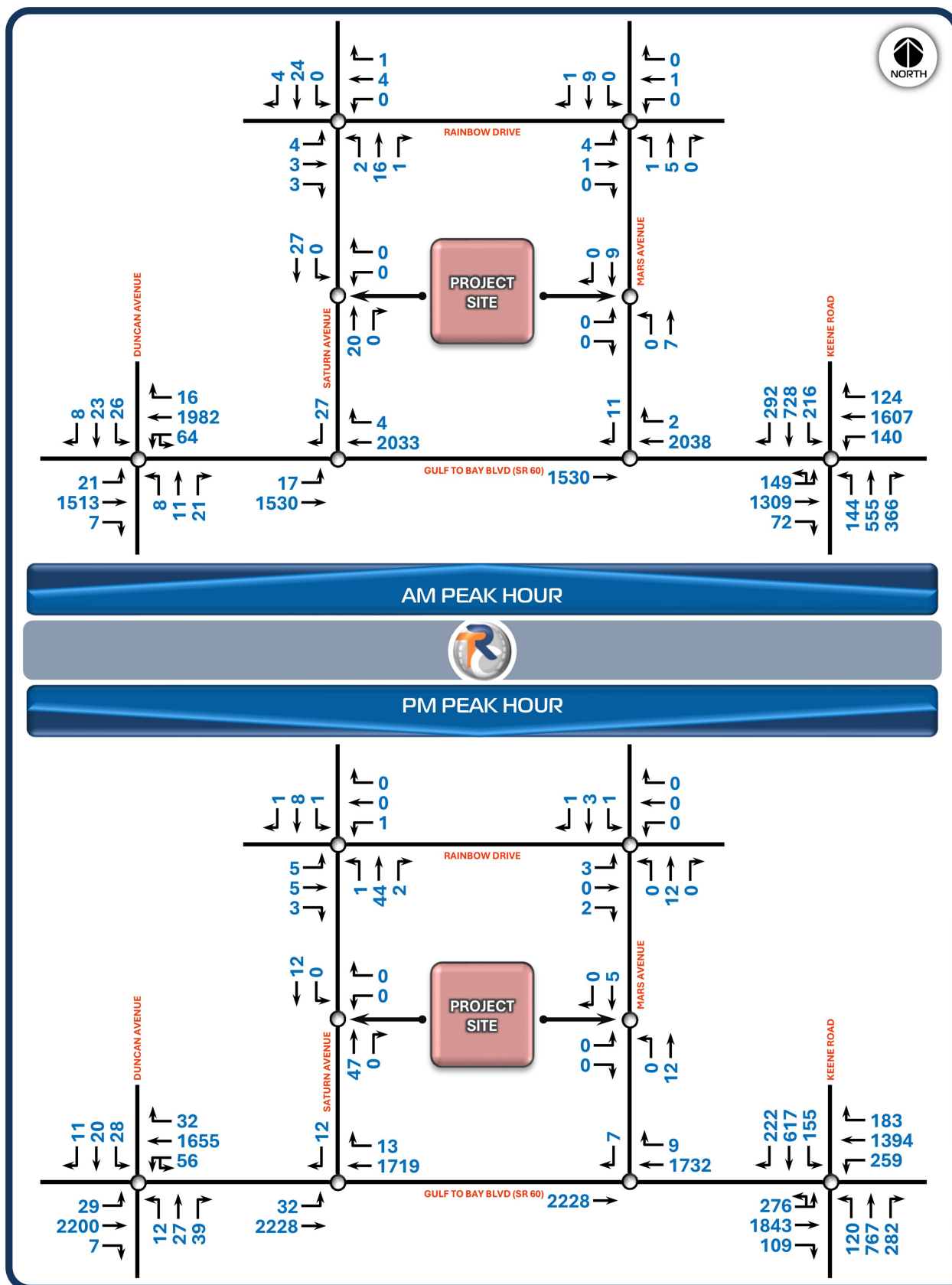




FIGURE 5.0 | BACKGROUND PEAK HOUR TRAFFIC VOLUMES

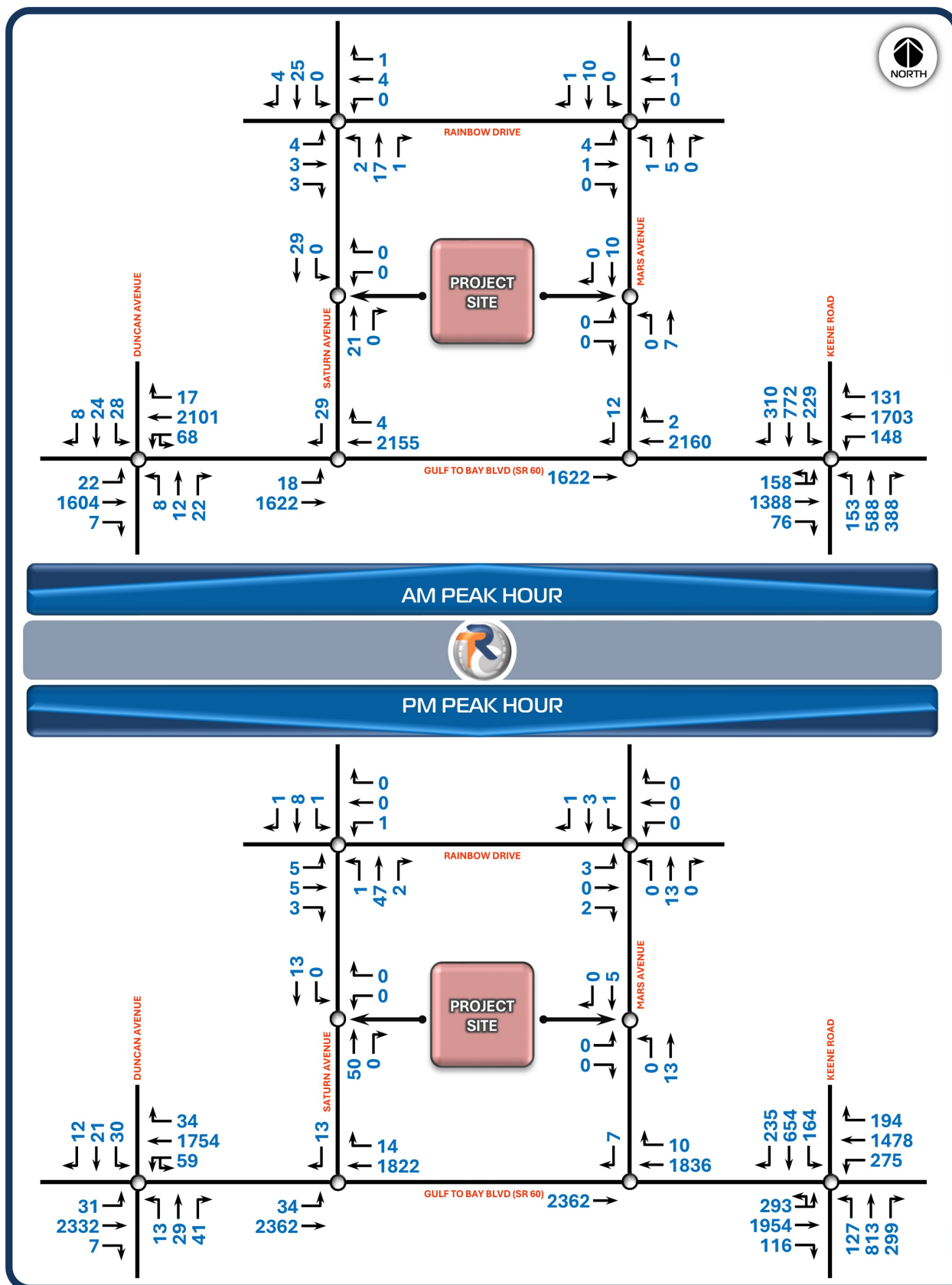
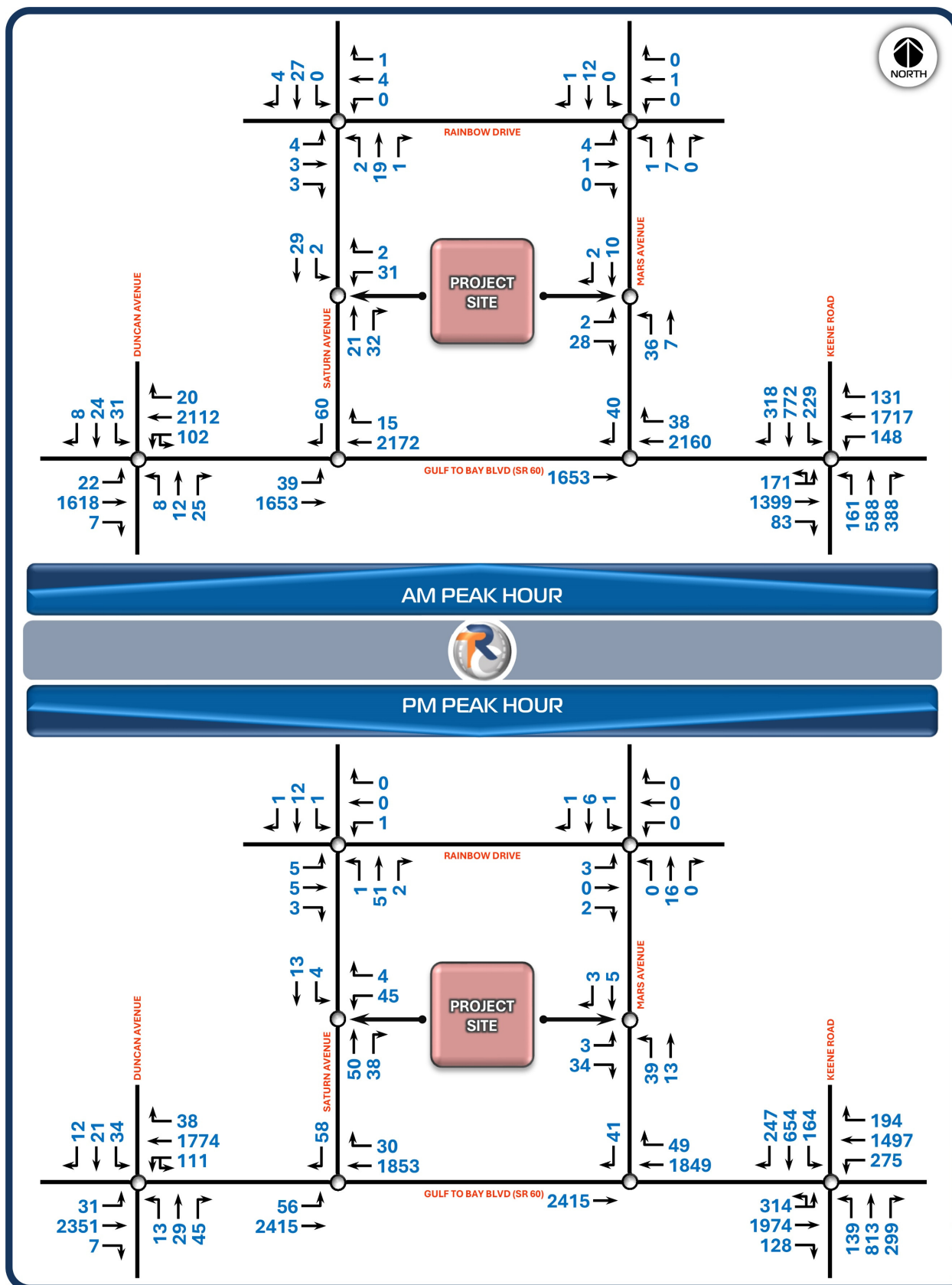




FIGURE 6.0 | POST-DEVELOPMENT PEAK HOUR TRAFFIC VOLUMES





8.0 | ROADWAY SEGMENT ANALYSIS

Roadway segment analyses were undertaken for post-development traffic conditions for AM and PM peak hour conditions. The roadway segment analyses were performed using generalized service volumes (capacities) pursuant to FDOT's 2023 Multimodal Quality/Level of Service Handbook; with applicable excerpts provided in [APPENDIX F](#). The analysis is summarized in [TABLE 2.0](#), which indicates that the study roadway segments are anticipated to operate acceptably for peak hour post-development conditions.

TABLE 2.0 | ROADWAY SEGMENT ANALYSIS SUMMARY

Roadway Segment	LOS Std	Lanes Context Class	Service Volume (Two-Way)	Peak Hour	Traffic Volume	LOS	V/C Ratio
Mars Avenue	D	2	1,950	AM	21	C	1.1%
FROM: Rainbow Drive TO: Project Site		C3C		PM	24	C	1.2%
Mars Avenue	D	2	1,950	AM	83	C	4.3%
FROM: Project Site TO: Gulf to Bay Boulevard		C3C		PM	93	C	4.8%
Saturn Avenue	D	2	1,950	AM	54	C	2.8%
FROM: Rainbow Drive TO: Project Site		C3C		PM	71	C	3.6%
Saturn Avenue	D	2	1,950	AM	114	C	5.8%
FROM: Project Site TO: Gulf to Bay Boulevard		C3C		PM	146	C	7.5%



9.0 | INTERSECTION ANALYSIS

Operational analyses were undertaken for the study intersections for post-development traffic conditions for AM and PM peak hour conditions. The analyses were performed using Highway Capacity Manual methodologies calculated by the Synchro software program using current traffic signal timings based on field observations (refer to [APPENDIX G](#) for timings). The results of the analysis are summarized in [TABLE 3.0](#), with further documentation provided in [APPENDIX H](#). The results of the analysis indicate that the study intersections are anticipated to operate with adequate capacity for all traffic movements. It is noted that the LOS E & F operating conditions identified for the signalized intersections are a result of relatively long cycle lengths (approximately 3 minutes) rather than deficiencies.

10.0 | SITE ACCESS TURN LANE ANALYSIS

A turn lane warrant analysis was undertaken to evaluate the need for site access turn lanes on Mars Avenue and Saturn Avenue at the project site driveways. The turn lane warrant evaluation was performed based on the turn lane warrant criteria pursuant to National Cooperative Highway Research Program, Report 279; as documented in [ATTACHMENT I](#). The results of the analysis found that site access turn lanes are not warranted on Mars Avenue or Saturn Avenue at the project site driveways.

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TABLE 3.0 | INTERSECTION ANALYSIS SUMMARY (1 OF 2)

Location	Peak Hour	Metric	Eastbound			Westbound			Northbound			Southbound		
			L	T	R	L	T	R	L	T	R	L	T	R
Gulf to Bay Blvd & Keene Road	AM	LOS	F	E	[3]	E	E	[3]	E	E	E	F	E	E
		Delay	92.5	67.6	[3]	74.1	71.4	[3]	66.0	60.9	73.5	93.1	70.6	56.9
		V/C	0.75	0.70	[3]	0.88	0.97	[3]	0.51	0.54	0.86	0.86	0.81	0.70
	PM	LOS	F	F	[3]	F	E	[3]	F	F	E	F	F	D
		Delay	84.0	81.5	[3]	98.9	75.6	[3]	83.7	90.5	56.7	112.5	87.7	45.7
		V/C	0.75	0.95	[3]	0.94	0.94	[3]	0.57	0.90	0.59	0.86	0.84	0.44
Gulf to Bay Blvd & Mars Avenue	AM	LOS	[1]	[2]	[1]	[1]	[2]	[3]	[1]	[1]	[1]	[1]	[1]	D
		Delay	[1]	[2]	[1]	[1]	[2]	[3]	[1]	[1]	[1]	[1]	[1]	34.0
		V/C	[1]	[2]	[1]	[1]	[2]	[3]	[1]	[1]	[1]	[1]	[1]	0.26
	PM	LOS	[1]	[2]	[1]	[1]	[2]	[3]	[1]	[1]	[1]	[1]	[1]	D
		Delay	[1]	[2]	[1]	[1]	[2]	[3]	[1]	[1]	[1]	[1]	[1]	26.4
		V/C	[1]	[2]	[1]	[1]	[2]	[3]	[1]	[1]	[1]	[1]	[1]	0.21
Gulf to Bay Blvd & Saturn Avenue	AM	LOS	F	[2]	[1]	[1]	[2]	[3]	[1]	[1]	[1]	[1]	[1]	E
		Delay	74.8	[2]	[1]	[1]	[2]	[3]	[1]	[1]	[1]	[1]	[1]	42.6
		V/C	0.46	[2]	[1]	[1]	[2]	[3]	[1]	[1]	[1]	[1]	[1]	0.40
	PM	LOS	F	[2]	[1]	[1]	[2]	[3]	[1]	[1]	[1]	[1]	[1]	D
		Delay	53.3	[2]	[1]	[1]	[2]	[3]	[1]	[1]	[1]	[1]	[1]	30.4
		V/C	0.45	[2]	[1]	[1]	[2]	[3]	[1]	[1]	[1]	[1]	[1]	0.30
Gulf to Bay Blvd & Duncan Road	AM	LOS	A	A	[3]	A	A	[3]	[3]	F	[3]	[3]	F	[3]
		Delay	2.8	5.1	[3]	4.3	0.7	[3]	[3]	83.4	[3]	[3]	86.4	[3]
		V/C	0.11	0.40	[3]	0.36	0.53	[3]	[3]	0.41	[3]	[3]	0.57	[3]
	PM	LOS	A	A	[3]	C	A	[3]	[3]	F	[3]	[3]	F	[3]
		Delay	3.1	7.7	[3]	25.3	0.5	[3]	[3]	97.2	[3]	[3]	97.4	[3]
		V/C	0.13	0.58	[3]	0.70	0.45	[3]	[3]	0.67	[3]	[3]	0.62	[3]
[1] NOT APPLICABLE [2] UNOPPOSED [3] SHARED LANE														



TABLE 3.0 | INTERSECTION ANALYSIS SUMMARY (2 OF 2)

Location	Peak Hour	Metric	Eastbound			Westbound			Northbound			Southbound		
			L	T	R	L	T	R	L	T	R	L	T	R
Mars Avenue & Rainbow Drive	AM	LOS	[3]	A	[3]	[3]	A	[3]	A	[2]	[3]	A	[2]	[3]
		Delay	[3]	9.0	[3]	[3]	9.2	[3]	8.2	[2]	[3]	0.0	[2]	[3]
		V/C	[3]	0.01	[3]	[3]	< 0.01	[3]	< 0.01	[2]	[3]	0.00	[2]	[3]
	PM	LOS	[3]	A	[3]	[3]	A	[3]	A	[2]	[3]	A	[2]	[3]
		Delay	[3]	8.7	[3]	[3]	0.0	[3]	0.0	[2]	[3]	7.2	[2]	[3]
		V/C	[3]	0.01	[3]	[3]	0.00	[3]	0.00	[2]	[3]	< 0.01	[2]	[3]
Saturn Avenue & Rainbow Drive	AM	LOS	[3]	A	[3]	[3]	A	[3]	A	[2]	[3]	A	[2]	[3]
		Delay	[3]	9.1	[3]	[3]	9.6	[3]	7.3	[2]	[3]	0.0	[2]	[3]
		V/C	[3]	0.01	[3]	[3]	0.01	[3]	< 0.01	[2]	[3]	0.00	[2]	[3]
	PM	LOS	[3]	A	[3]	[3]	A	[3]	A	[2]	[3]	A	[2]	[3]
		Delay	[3]	9.3	[3]	[3]	9.1	[3]	7.2	[2]	[3]	7.3	[2]	[3]
		V/C	[3]	0.02	[3]	[3]	< 0.01	[3]	< 0.01	[2]	[3]	< 0.01	[2]	[3]
Mars Avenue & Project Site	AM	LOS	A	[1]	[3]	[1]	[1]	[1]	A	[2]	[1]	[1]	[2]	[3]
		Delay	8.5	[1]	[3]	[1]	[1]	[1]	7.3	[2]	[1]	[1]	[2]	[3]
		V/C	0.03	[1]	[3]	[1]	[1]	[1]	0.02	[2]	[1]	[1]	[2]	[3]
	PM	LOS	A	[1]	[3]	[1]	[1]	[1]	A	[2]	[1]	[1]	[2]	[3]
		Delay	8.5	[1]	[3]	[1]	[1]	[1]	7.3	[2]	[1]	[1]	[2]	[3]
		V/C	0.04	[1]	[3]	[1]	[1]	[1]	0.03	[2]	[1]	[1]	[2]	[3]
Saturn Avenue & Project Site	AM	LOS	[1]	[1]	[1]	A	[1]	[3]	[1]	[2]	[3]	A	[2]	[3]
		Delay	[1]	[1]	[1]	9.0	[1]	[3]	[1]	[2]	[3]	7.3	[2]	[3]
		V/C	[1]	[1]	[1]	0.04	[1]	[3]	[1]	[2]	[3]	< 0.01	[2]	[3]
	PM	LOS	[1]	[1]	[1]	A	[1]	[3]	[1]	[2]	[3]	A	[2]	[3]
		Delay	[1]	[1]	[1]	9.2	[1]	[3]	[1]	[2]	[3]	7.4	[2]	[3]
		V/C	[1]	[1]	[1]	0.06	[1]	[3]	[1]	[2]	[3]	< 0.01	[2]	[3]
[1] NOT APPLICABLE [2] UNOPPOSED [3] SHARED LANE														



11.0 | MULTIMODAL EVALUATION

The Institute of Transportation Engineers (ITE) *Trip Generation Manual* (12TH EDITION) does not contain multimodal trip characteristic data for the “Automated Car Wash” land use (ITE LUC 948) nor the “Coffee/Donut Shop with Drive-Through Window and No Indoor Seating” land use (ITE LUC 938). In consideration of the nature of the car wash component of the project site (customers arrive with private automobile), multimodal trip generation is anticipated to be immaterial for the car wash, where only (some) employees may use a mode other than “automobile” to access the site. The coffee shop component of the site is anticipated to generate some multimodal trips; despite a lack of data in the ITE dataset.

Fixed route transit is available along the adjacent segment of Gulf to Bay Boulevard (SR 60) via Pinellas Suncoast Transit Authority (PSTA) route 60; with weekday headway of 20 minutes in each direction. In the vicinity of the project site, sidewalks currently exist along both sides of Gulf to Bay Boulevard (SR 60) with limited sidewalk coverage along Mars Avenue and Saturn Avenue. In the vicinity of the project site, on-road bicycle facilities are not present along Gulf to Bay Boulevard (SR 60).

12.0 | SAFETY ANALYSIS

A safety analysis was performed for the study intersections. Crash data from FDOT’s State Safety Office Geographic Information System (SSOGis) was queried for the most recent 5-year period during which data was available (01/01/2018 through 12/31/2022); as documented in [APPENDIX J](#). The safety analysis identified the following crash statistics within the study area:

- 118 total crashes (23.6 crashes per year).
 - 85 total crashes at or influenced by Gulf to Bay Blvd & Keene Road (17.0 crashes per year)
 - 24 total crashes at or influenced by Gulf to Bay Blvd & Duncan Avenue (4.8 crashes per year)
 - 9 total crashes at or influenced by Gulf to Bay Blvd & Mars Ave/Saturn Ave (1.8 crashes per year)
- The predominant crash type was “Angle” (49 crashes; 41.5% of total crashes).
- Other crashes consist of “Rear End” (41 crashes), “Sideswipe” (18 crashes), and “Other” (10 crashes).
- 70 crashes resulted in no injuries (59.3% of total crashes).
- 19 crashes resulted in possible injuries (16.1% of total crashes).
- 18 crashes resulted in non-incapacitating injuries (15.3% of total crashes).
- 8 crashes resulted in incapacitating injuries (6.8% of total crashes).
- 3 crashes resulted in fatalities (2.5% of total crashes).



13.0 | CONCLUSION

Based on the data, analysis, and findings contained within this Transportation Impact Analysis undertaken in association with the proposed development of the **WOODIE'S WASH SHACK - CLEARWATER** project, the following is concluded:

- ❖ **THE PROJECT SITE IS PROPOSED FOR THE DEVELOPMENT OF A 6,352 SQUARE FOOT AUTOMATED CAR WASH, AND A 1,025 SQUARE FOOT COFFEE SHOP WITH SINGLE-LANE DRIVE-THROUGH AND NO INDOOR SEATING.**
- ❖ **SITE ACCESS IS PROPOSED VIA ONE DRIVEWAY CONNECTION TO MARS AVENUE AND ONE DRIVEWAY CONNECTION TO SATURN AVENUE.**
- ❖ **THE PROJECT SITE IS ESTIMATED TO GENERATE 1,790 DAILY DRIVEWAY TRIPS (1,628 DAILY NEW EXTERNAL TRIPS), WITH 135 DRIVEWAY TRIPS (99 NEW EXTERNAL TRIPS) DURING THE AM PEAK HOUR AND 170 DRIVEWAY TRIPS (156 NEW EXTERNAL TRIPS) DURING THE PM PEAK HOUR.**
- ❖ **THE STUDY AREA ROADWAY SEGMENTS AND INTERSECTIONS WERE FOUND TO OPERATE ACCEPTABLY WITH ADEQUATE CAPACITY FOR PEAK HOUR POST-DEVELOPMENT CONDITIONS.**
- ❖ **SITE ACCESS TURN LANES WERE FOUND TO NOT BE WARRANTED ON MARS AVENUE OR SATURN AVENUE AT THE PROJECT SITE DRIVEWAYS.**

WOODIE'S WASH SHACK

CLEARWATER, FLORIDA

TRANSPORTATION IMPACT ANALYSIS

APPENDIX A

TRIP GENERATION DETAILS



Land Use: 938

Coffee/Donut Shop with Drive-Through Window and No Indoor Seating

Description

This land use includes any coffee and donut restaurant that has only drive-through window service. A patron cannot walk into the shop and purchase items. The restaurant sells freshly brewed coffee (along with coffee-related accessories) and a variety of food/drink products such as donuts, bagels, breads, muffins, cakes, sandwiches, wraps, salads, and other hot and cold beverages. The restaurant marketing and sales may emphasize coffee beverages over food (or vice versa). The coffee/donut shops contained in this land use typically maintain long store hours (more than 15 hours) with an early morning opening.

Additional Data

The sites were surveyed in the 1990s, the 2000s, and the 2010s in Arizona, California, Oregon, and Washington.

Source Numbers

514, 635, 644, 755, 1028, 1259

Coffee/Donut Shop with Drive-Through Window and No Indoor Seating (938)

Vehicle Trip Ends vs: Drive-Through Lanes
On a: Weekday

Setting/Location: General Urban/Suburban

Number of Studies: 8

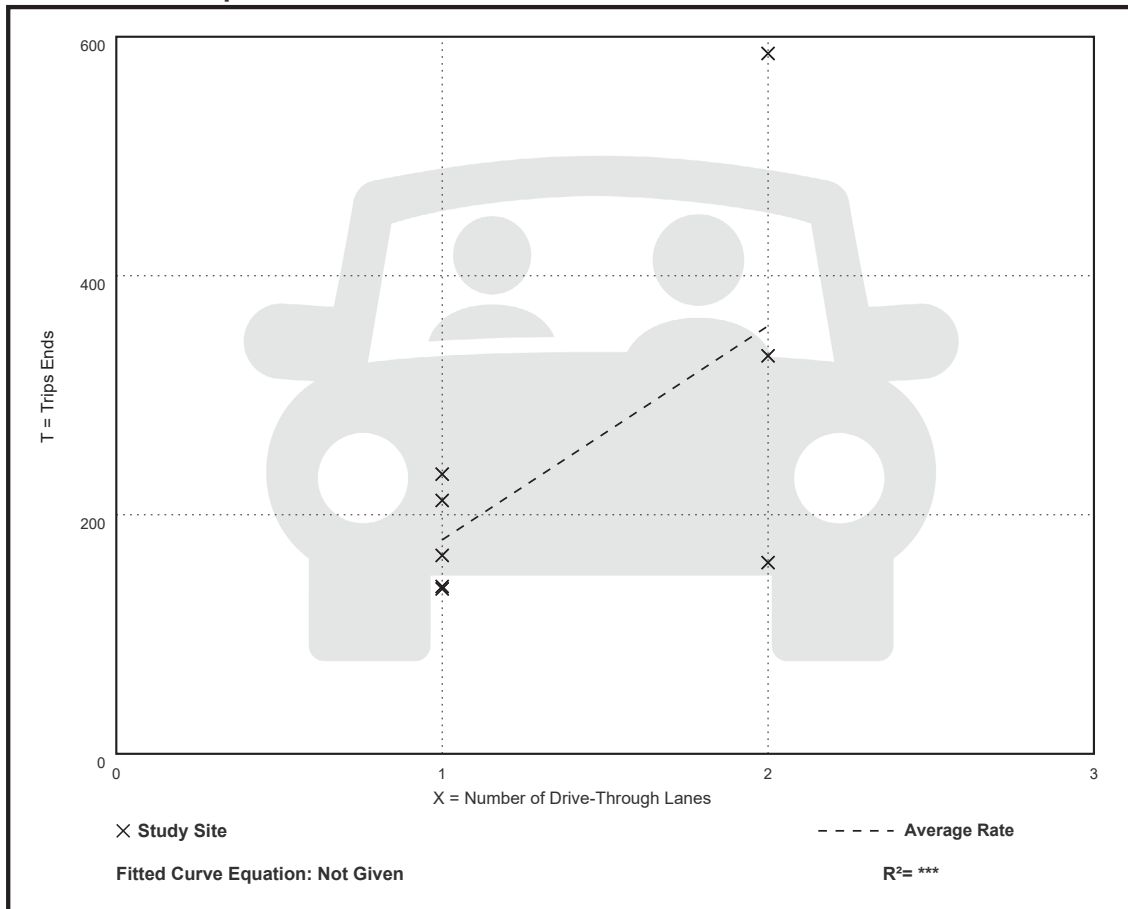
Avg. Num. of Drive-Through Lanes: 1

Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Drive-Through Lane

Average Rate	Range of Rates	Standard Deviation
179.00	80.00 - 293.00	74.48

Data Plot and Equation



Coffee/Donut Shop with Drive-Through Window and No Indoor Seating (938)

Vehicle Trip Ends vs: Drive-Through Lanes

On a: Weekday,

Peak Hour of Adjacent Street Traffic,
One Hour Between 7 and 9 a.m.

Setting/Location: General Urban/Suburban

Number of Studies: 20

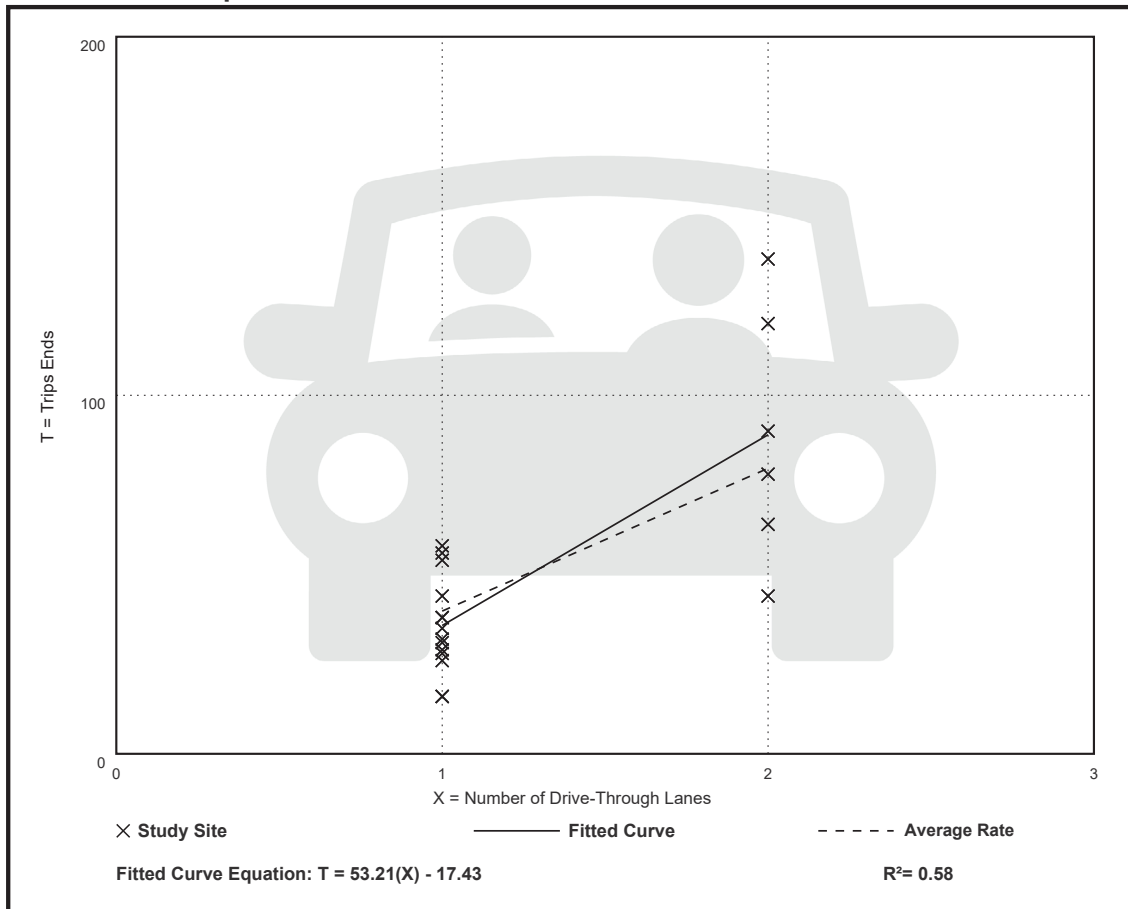
Avg. Num. of Drive-Through Lanes: 1

Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Drive-Through Lane

Average Rate	Range of Rates	Standard Deviation
39.81	16.00 - 69.00	15.44

Data Plot and Equation



Coffee/Donut Shop with Drive-Through Window and No Indoor Seating (938)

Vehicle Trip Ends vs: Drive-Through Lanes

On a: Weekday,

Peak Hour of Adjacent Street Traffic,
One Hour Between 4 and 6 p.m.

Setting/Location: General Urban/Suburban

Number of Studies: 8

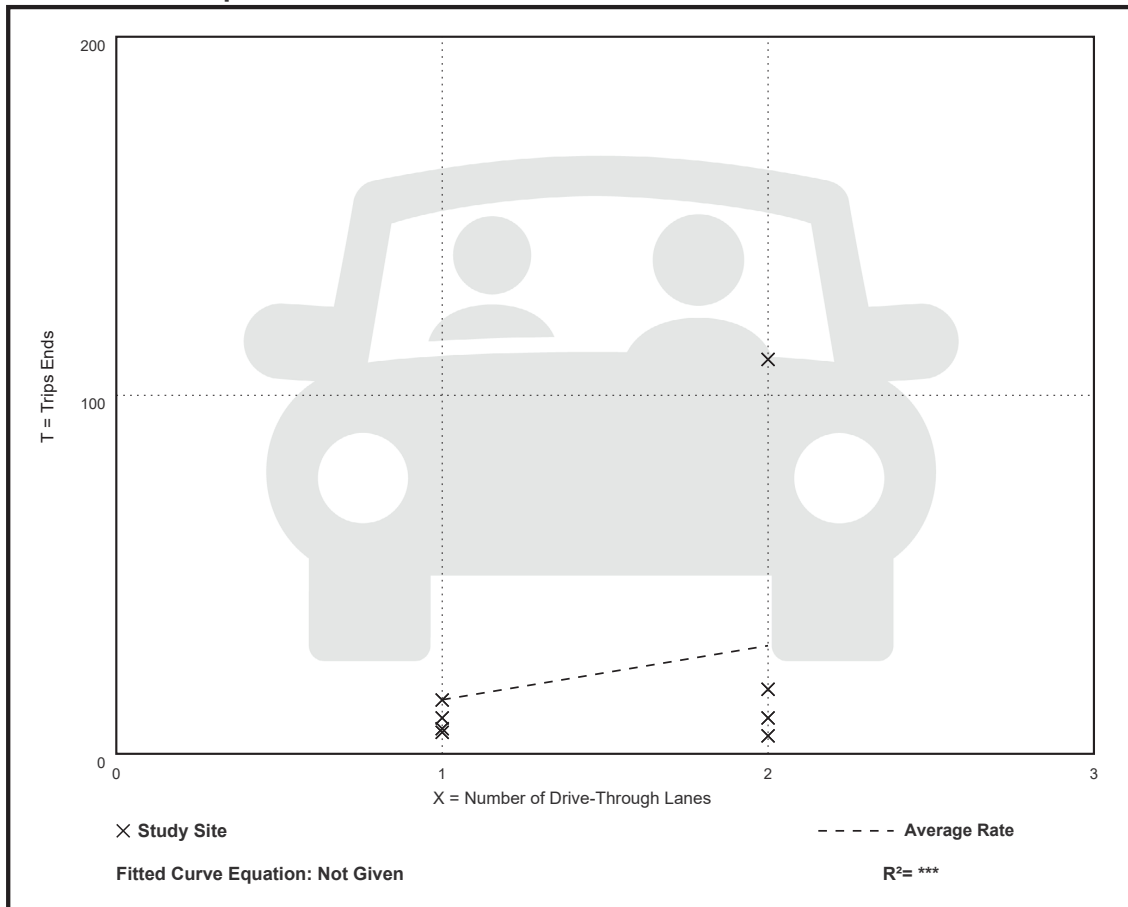
Avg. Num. of Drive-Through Lanes: 2

Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Drive-Through Lane

Average Rate	Range of Rates	Standard Deviation
15.08	2.50 - 55.00	19.41

Data Plot and Equation



Vehicle Pass-By Rates by Land Use									
Source: ITE Trip Generation Manual, 12th Edition									
Land Use Code	938								
Land Use	Coffee/Donut Shop with Drive-Through Window and No Indoor Seating								
Setting	General Urban/Suburban								
Time Period	Weekday AM Peak Period								
# Data Sites	3								
Average Pass-By Rate	90%								
	Pass-By Characteristics for Individual Sites								
Drive-Through Lanes	State or Province	Survey Year	# Interviews	Pass-By Trip (%)	Non-Pass-By Trips			Adj Street Peak Hour Volume	Source
					Primary (%)	Diverted (%)	Total (%)		
1	Washington	1997	—	83	—	—	17	—	18
1	Oregon	1998	—	95	—	—	5	—	18
1	Washington	1998	—	92	—	—	8	—	18

Vehicle Pass-By Rates by Land Use									
Source: ITE Trip Generation Manual, 12th Edition									
Land Use Code	938								
Land Use	Coffee/Donut Shop with Drive-Through Window and No Indoor Seating								
Setting	General Urban/Suburban								
Time Period	Weekday PM Peak Period								
# Data Sites	2								
Average Pass-By Rate	98%								
	Pass-By Characteristics for Individual Sites								
Drive-Through Lanes	State or Province	Survey Year	# Interviews	Pass-By Trip (%)	Non-Pass-By Trips			Adj Street Peak Hour Volume	Source
					Primary (%)	Diverted (%)	Total (%)		
1	Washington	1997	—	100	—	—	0	—	18
1	Oregon	1998	—	95	—	—	5	—	18

Land Use: 948 Automated Car Wash

Description

An automated car wash is a facility that allows for the mechanical cleaning of the exterior of vehicles. Manual cleaning services may also be available at the facility.

Additional Data

The sites were surveyed in the 1990s, the 2000s, and the 2020s in California, Colorado, Florida, New Jersey, New York, Pennsylvania, and Washington.

Source Numbers

552, 555, 585, 599, 954, 1208, 1224, 1245, 1256

Automated Car Wash (948)

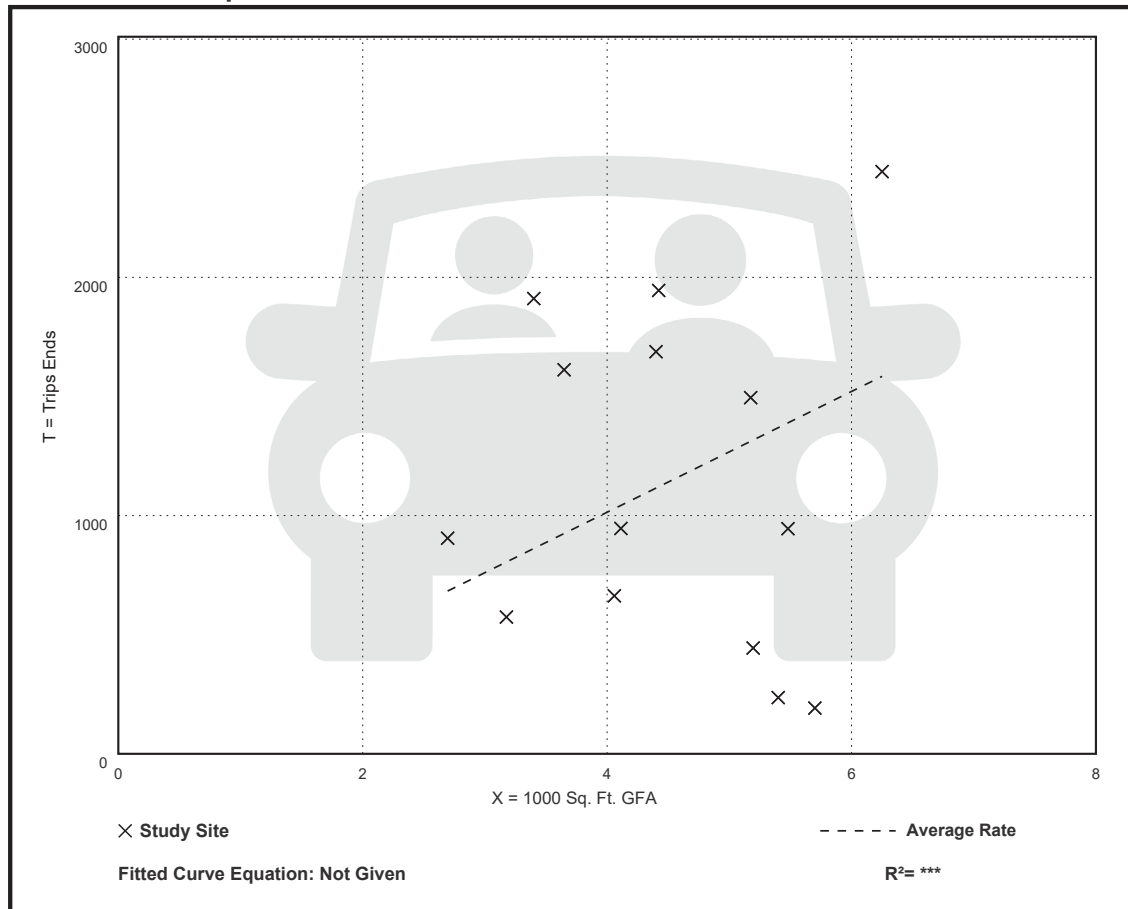
Vehicle Trip Ends vs: 1000 Sq. Ft. GFA
On a: Weekday

Setting/Location: General Urban/Suburban
Number of Studies: 14
Avg. 1000 Sq. Ft. GFA: 5
Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
253.51	33.68 - 562.06	163.78

Data Plot and Equation



Automated Car Wash (948)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday,

Peak Hour of Adjacent Street Traffic,
One Hour Between 7 and 9 a.m.

Setting/Location: General Urban/Suburban

Number of Studies: 14

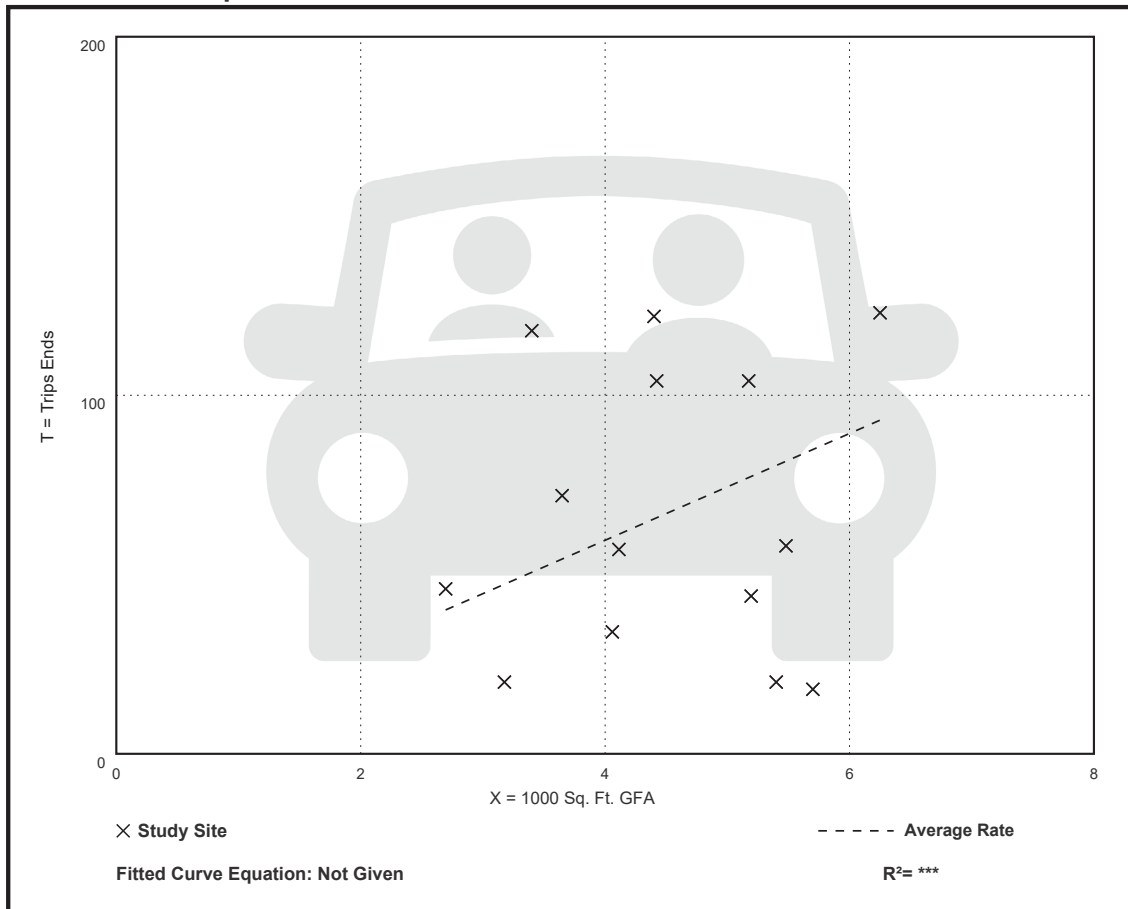
Avg. 1000 Sq. Ft. GFA: 5

Directional Distribution: 55% entering, 45% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
14.89	3.16 - 34.71	9.20

Data Plot and Equation



Automated Car Wash (948)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday,

Peak Hour of Adjacent Street Traffic,
One Hour Between 4 and 6 p.m.

Setting/Location: General Urban/Suburban

Number of Studies: 15

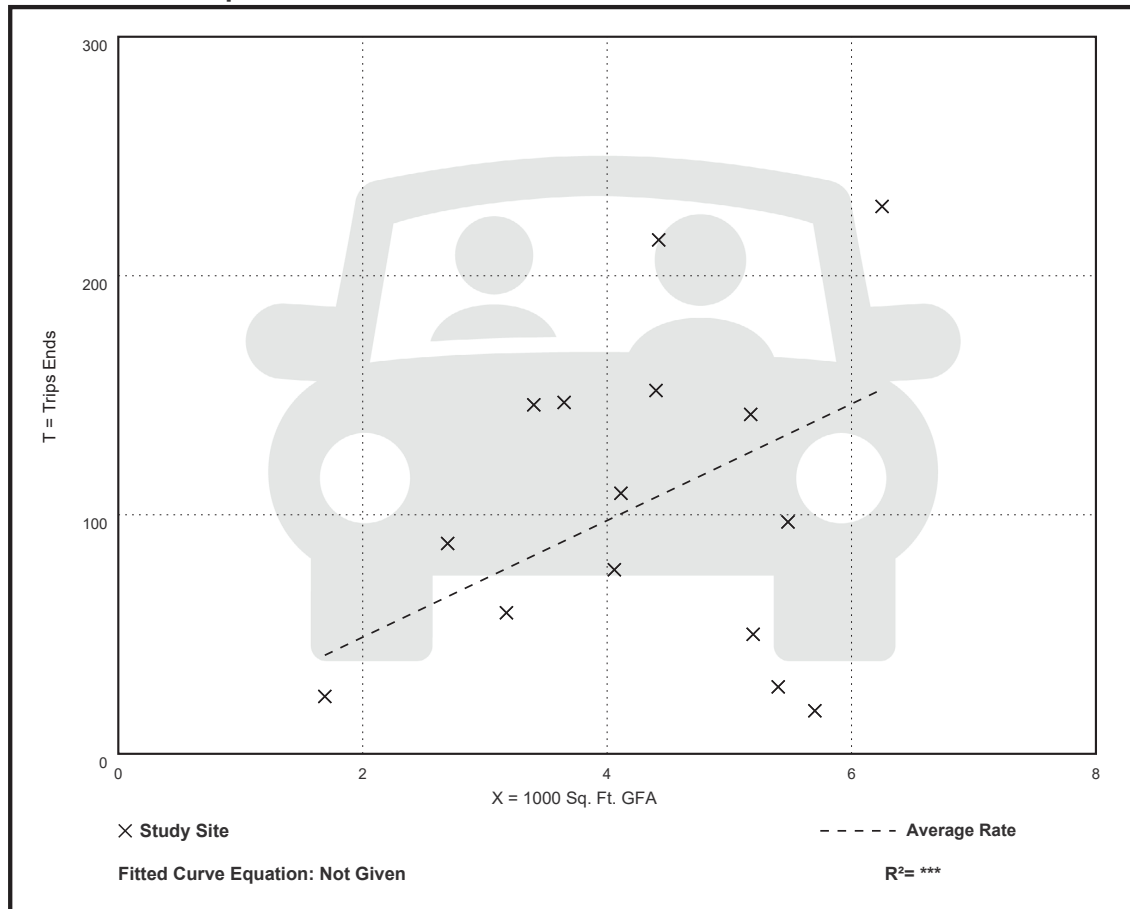
Avg. 1000 Sq. Ft. GFA: 4

Directional Distribution: 49% entering, 51% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
24.40	3.16 - 48.62	14.47

Data Plot and Equation



WOODIE'S WASH SHACK

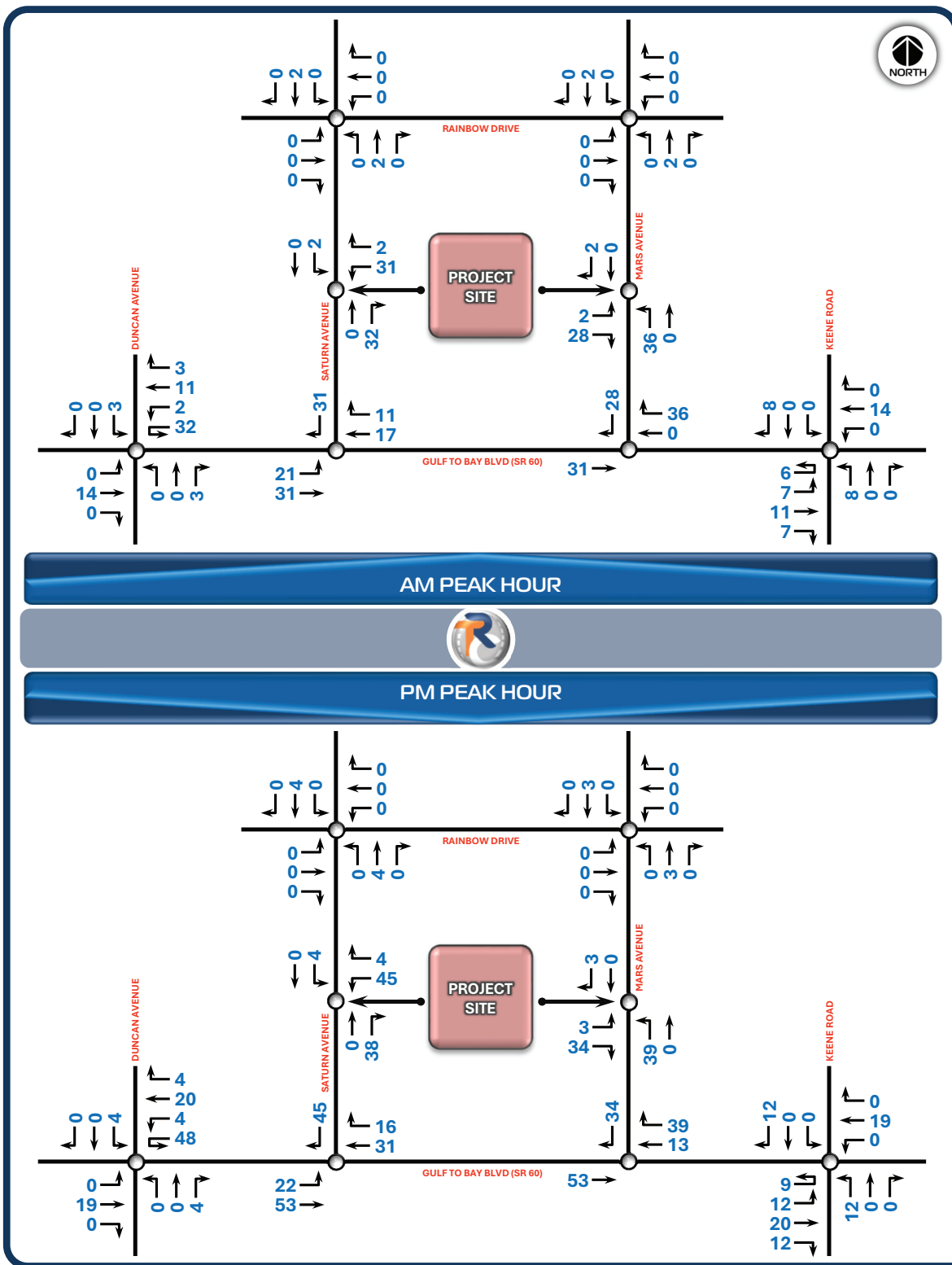
CLEARWATER, FLORIDA

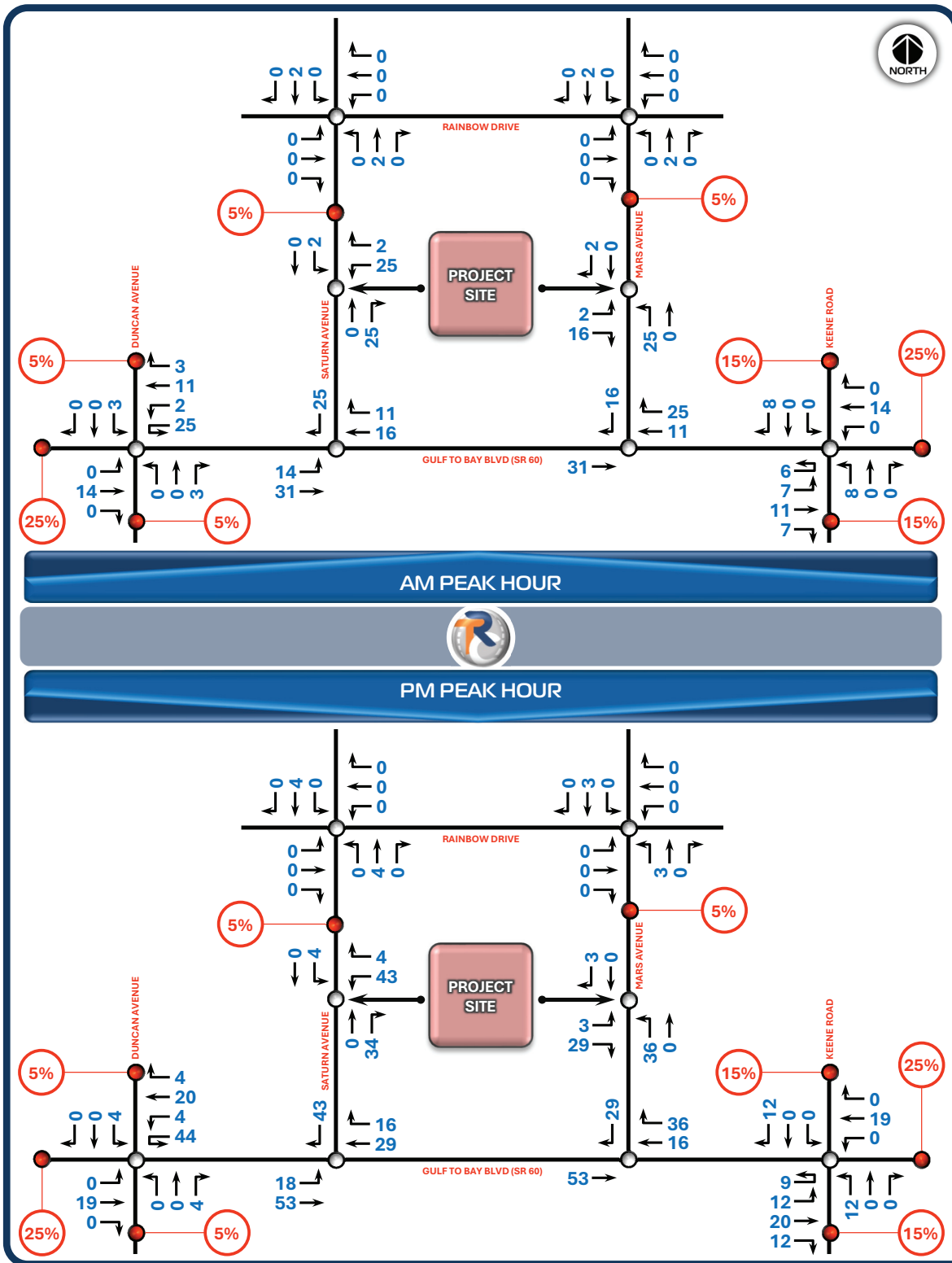
TRANSPORTATION IMPACT ANALYSIS

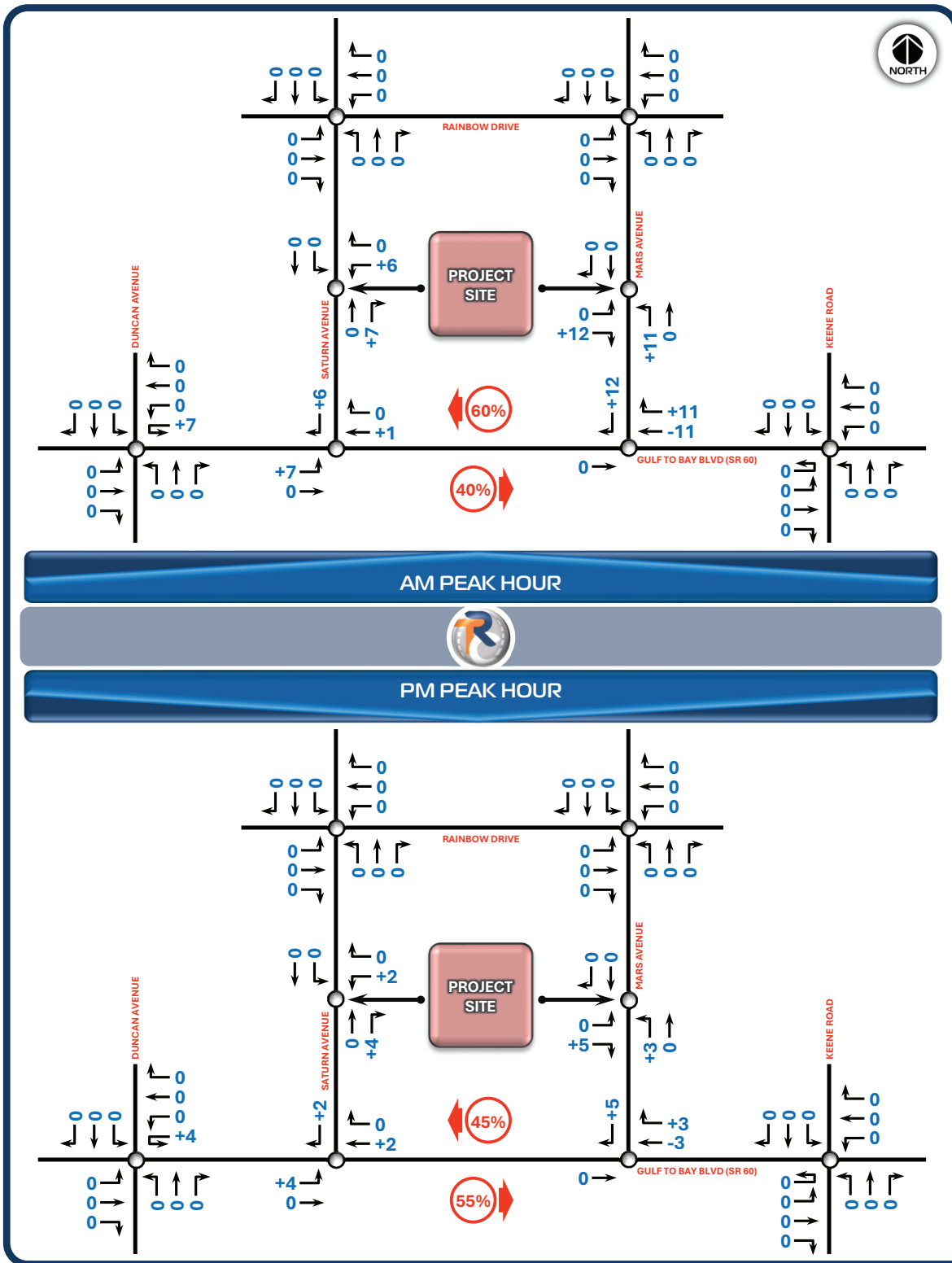
APPENDIX B

PROJECT TRAFFIC DETAILS









WOODIE'S WASH SHACK

CLEARWATER, FLORIDA

TRANSPORTATION IMPACT ANALYSIS

APPENDIX C

STUDY AREA SCREENING



WOODIE'S WASH SHACK - CLEARWATER

STUDY AREA SCREENING

Roadway Segment	LOS Std	Lanes	Service Volume (Two-Way)	Peak Hour Two-Way Project Traffic		Percent Capacity Impacted	≥ 5% Impact	Study Area
		Context Class		Percent	Volume			
Gulf to Bay Boulevard (SR 60)	D	6	4,870	25%	39	0.8%	NO	NO
FROM: Lake Drive TO: Duncan Avenue		C3C						
Gulf to Bay Boulevard (SR 60)	D	6	4,870	35%	55	1.1%	NO	NO
FROM: Duncan Avenue TO: Saturn Avenue		C3C						
Gulf to Bay Boulevard (SR 60)	D	6	4,870	55%	86	1.8%	NO	NO
FROM: Saturn Avenue TO: Mars Avenue		C3C						
Gulf to Bay Boulevard (SR 60)	D	6	4,870	55%	86	1.8%	NO	NO
FROM: Mars Avenue TO: Keene Road		C3C						
Gulf to Bay Boulevard (SR 60)	D	6	4,870	25%	39	0.8%	NO	NO
FROM: Keene Road TO: Hercules Avenue		C3C						
Keen Road	D	6	4,870	15%	23	0.5%	NO	NO
FROM: Drew Street TO: Gulf to Bay Boulevard		C3C						
Keen Road	D	4	3,290	15%	23	0.7%	NO	NO
FROM: Gulf to Bay Boulevard TO: Druid Road		C3C						
Duncan Road	D	2	1,950	5%	8	0.4%	NO	NO
FROM: Drew Street TO: Gulf to Bay Boulevard		C3C						
Duncan Road	D	2	1,950	5%	8	0.4%	NO	NO
FROM: Gulf to Bay Boulevard TO: Druid Road		C3C						

WOODIE'S WASH SHACK

CLEARWATER, FLORIDA

TRANSPORTATION IMPACT ANALYSIS

APPENDIX D

TRAFFIC COUNT DATA

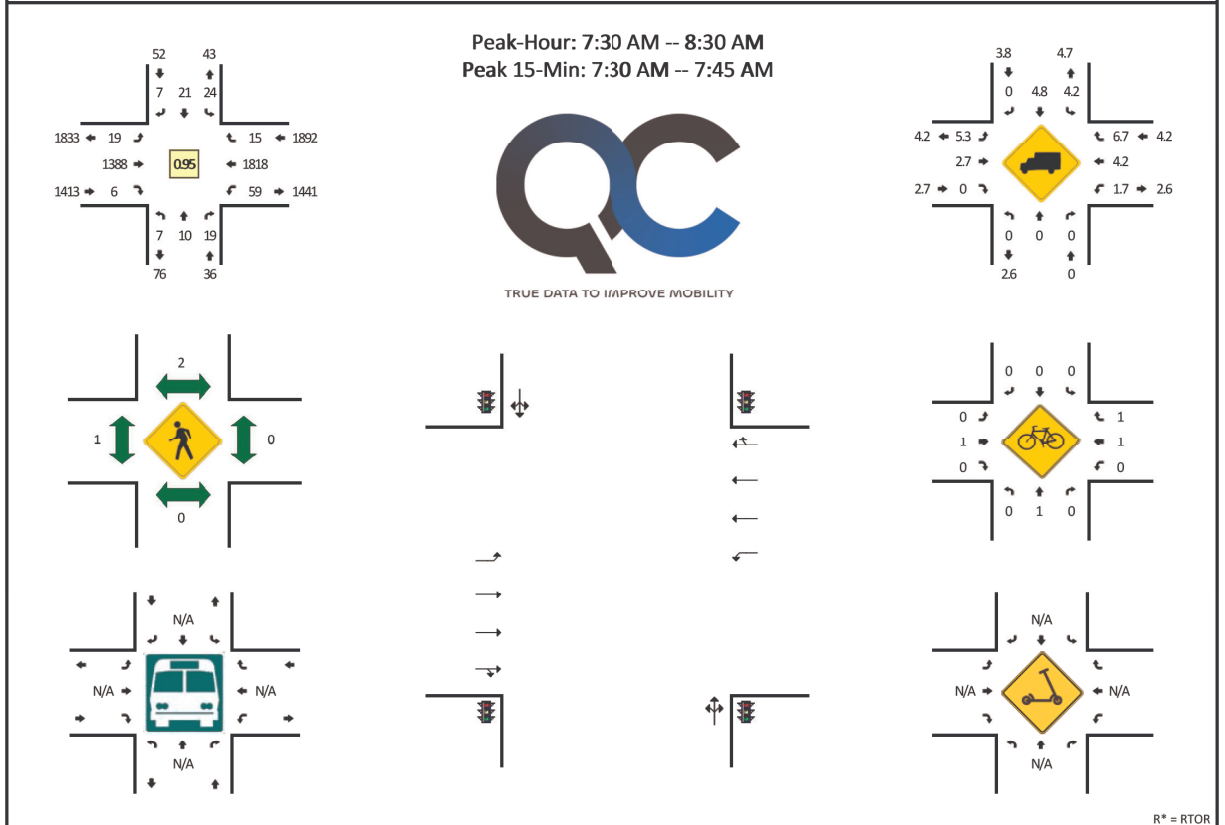


Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

LOCATION: Duncan Avenue -- SR60
CITY/STATE: Clearwater, FL

QC JOB #: 17421801
DATE: Thu, Jan 22 2026



R* = RTOR

15-Min Count Period Beginning At	Duncan Avenue (Northbound)					Duncan Avenue (Southbound)					SR60 (Eastbound)					SR60 (Westbound)					Total	Hourly Totals
	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*		
7:00 AM	2	0	0	0	4	8	2	0	0	0	1	269	0	1	0	9	339	0	1	0	636	
7:15 AM	0	0	1	0	4	8	1	0	0	0	6	270	0	1	0	6	397	8	5	0	707	
7:30 AM	0	5	1	0	4	8	5	0	0	2	4	365	2	1	0	11	483	4	0	0	895	
7:45 AM	3	1	0	0	5	5	6	3	0	1	4	374	0	0	0	18	448	2	2	0	872	3110
8:00 AM	2	1	0	0	2	8	5	0	0	1	5	336	3	0	0	10	425	2	6	0	806	3280
8:15 AM	2	3	2	0	5	3	5	0	0	0	5	313	1	0	0	10	462	7	2	0	820	3393
8:30 AM	0	1	0	0	5	4	4	2	0	2	3	327	2	1	0	9	475	2	6	0	843	3341
8:45 AM	3	1	1	0	3	2	4	1	0	3	5	355	2	1	0	16	447	0	2	0	846	3315
Peak 15-Min Flowrates	Northbound					Southbound					Eastbound					Westbound					Total	
	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*		
All Vehicles	0	20	20	0	16	32	20	8	0	8	16	1460	8	4	0	44	1932	16	0	0	3604	
Heavy Trucks	0	0	0			0	0	0			0	28	0			0	44	0			72	
Buses																						
Pedestrians	0	0				0					4					0					4	
Bicycles	0	0	0			0	0	0			0	0	0			0	4	0			4	
Scoters																						

Comments:

Report generated on 1/27/2026 1:47 PM

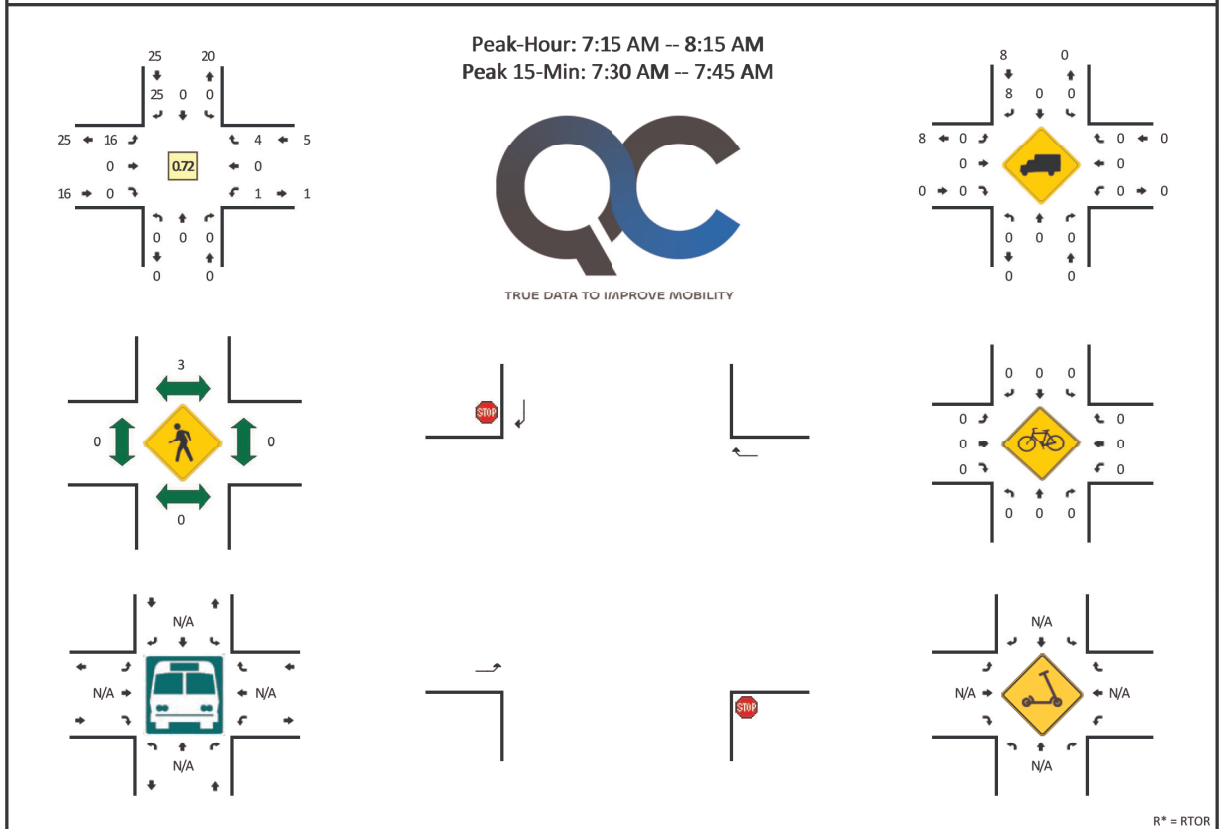
SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

LOCATION: Saturn Avenue -- SR60
CITY/STATE: Clearwater, FL

QC JOB #: 17421803
DATE: Thu, Jan 22 2026



R* = RTOR

15-Min Count Period Beginning At	Saturn Avenue (Northbound)					Saturn Avenue (Southbound)					SR60 (Eastbound)					SR60 (Westbound)					Total	Hourly Totals
	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*		
7:00 AM	0	0	0	0	0	0	0	2	0	0	3	0	0	0	0	0	0	2	0	0	7	
7:15 AM	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	1	0	0	11	
7:30 AM	0	0	0	0	0	0	0	13	0	0	2	0	0	0	0	0	0	1	0	0	16	
7:45 AM	0	0	0	0	0	0	0	4	0	0	3	0	0	0	0	0	0	0	0	0	7	41
8:00 AM	0	0	0	0	0	0	0	3	0	0	6	0	0	0	0	0	0	2	1	0	12	46
8:15 AM	0	0	0	0	0	0	0	2	0	0	3	0	0	0	0	0	0	1	0	0	6	41
8:30 AM	0	0	0	0	0	0	0	4	0	0	2	0	0	0	0	0	0	1	0	0	7	32
8:45 AM	0	0	0	0	0	0	0	1	0	0	3	0	0	0	0	0	0	2	0	0	6	31
Peak 15-Min Flowrates	Northbound					Southbound					Eastbound					Westbound					Total	
	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*		
All Vehicles	0	0	0	0	0	0	0	52	0	0	8	0	0	0	0	0	0	4	0	0	64	
Heavy Trucks	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4	
Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Pedestrians	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bicycles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Scoters	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Comments:

Report generated on 1/27/2026 1:47 PM

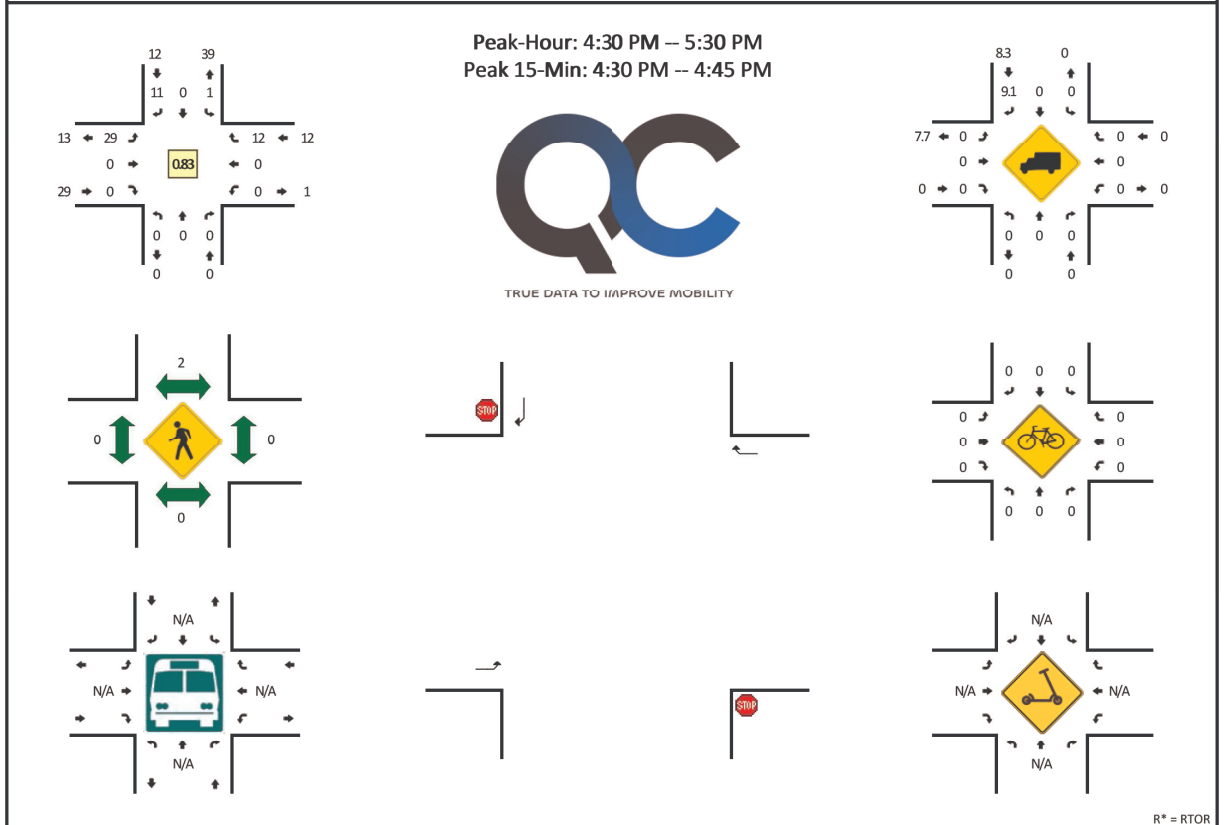
SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

LOCATION: Saturn Avenue -- SR60
CITY/STATE: Clearwater, FL

QC JOB #: 17421804
DATE: Thu, Jan 22 2026



R* = RTOR

15-Min Count Period Beginning At	Saturn Avenue (Northbound)					Saturn Avenue (Southbound)					SR60 (Eastbound)					SR60 (Westbound)					Total	Hourly Totals
	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*		
4:00 PM	0	0	0	0	0	1	0	2	0	0	0	0	0	4	0	0	0	4	0	0	11	
4:15 PM	0	0	0	0	0	0	0	2	0	0	4	0	0	3	0	0	0	3	0	0	12	
4:30 PM	0	0	0	0	0	0	0	3	0	0	6	0	0	2	0	0	0	5	0	0	16	
4:45 PM	0	0	0	0	0	1	0	1	0	0	6	0	0	0	0	0	0	2	0	0	10	49
5:00 PM	0	0	0	0	0	0	0	4	0	0	8	0	0	0	0	0	0	2	0	0	14	52
5:15 PM	0	0	0	0	0	0	0	3	0	0	7	0	0	0	0	0	0	3	0	0	13	53
5:30 PM	0	0	0	0	0	0	0	4	0	0	8	0	0	3	0	0	0	1	0	0	16	53
5:45 PM	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	3	0	0	7	50
Peak 15-Min Flowrates	Northbound					Southbound					Eastbound					Westbound					Total	
	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*		
All Vehicles	0	0	0	0	0	0	0	12	0	0	24	0	0	8	0	0	0	20	0	0	64	
Heavy Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Pedestrians	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bicycles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Scoters	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Comments:

Report generated on 1/27/2026 1:47 PM

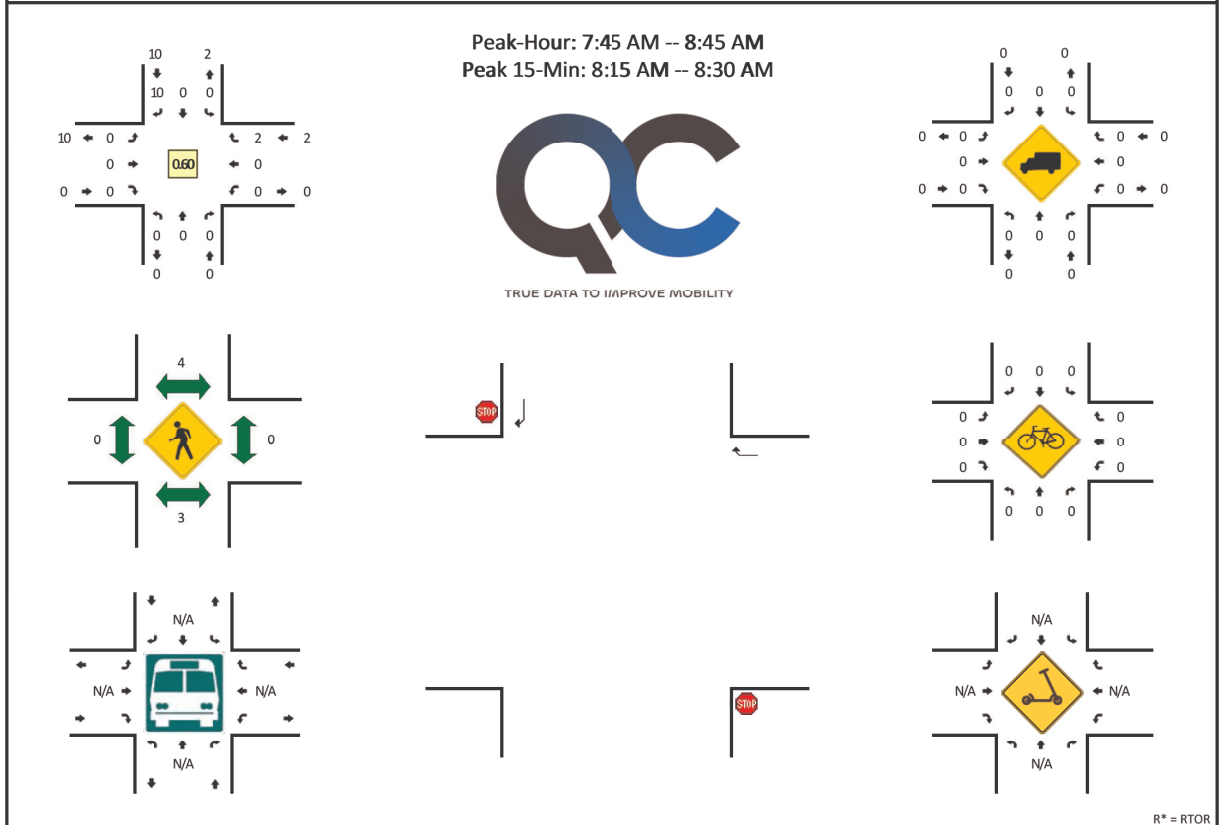
SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

LOCATION: Mars Avenue -- SR60
CITY/STATE: Clearwater, FL

QC JOB #: 17421805
DATE: Thu, Jan 22 2026



R* = RTOR

15-Min Count Period Beginning At	Mars Avenue (Northbound)					Mars Avenue (Southbound)					SR60 (Eastbound)					SR60 (Westbound)					Total	Hourly Totals
	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*		
7:00 AM	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	
7:15 AM	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	3	
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7:45 AM	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	3	8
8:00 AM	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	3	9
8:15 AM	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5	11
8:30 AM	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	12
8:45 AM	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	0	0	3	12
Peak 15-Min Flowrates	Northbound					Southbound					Eastbound					Westbound					Total	
	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*		
All Vehicles	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	20	
Heavy Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Pedestrians	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bicycles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Scoters	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Comments:

Report generated on 1/27/2026 1:47 PM

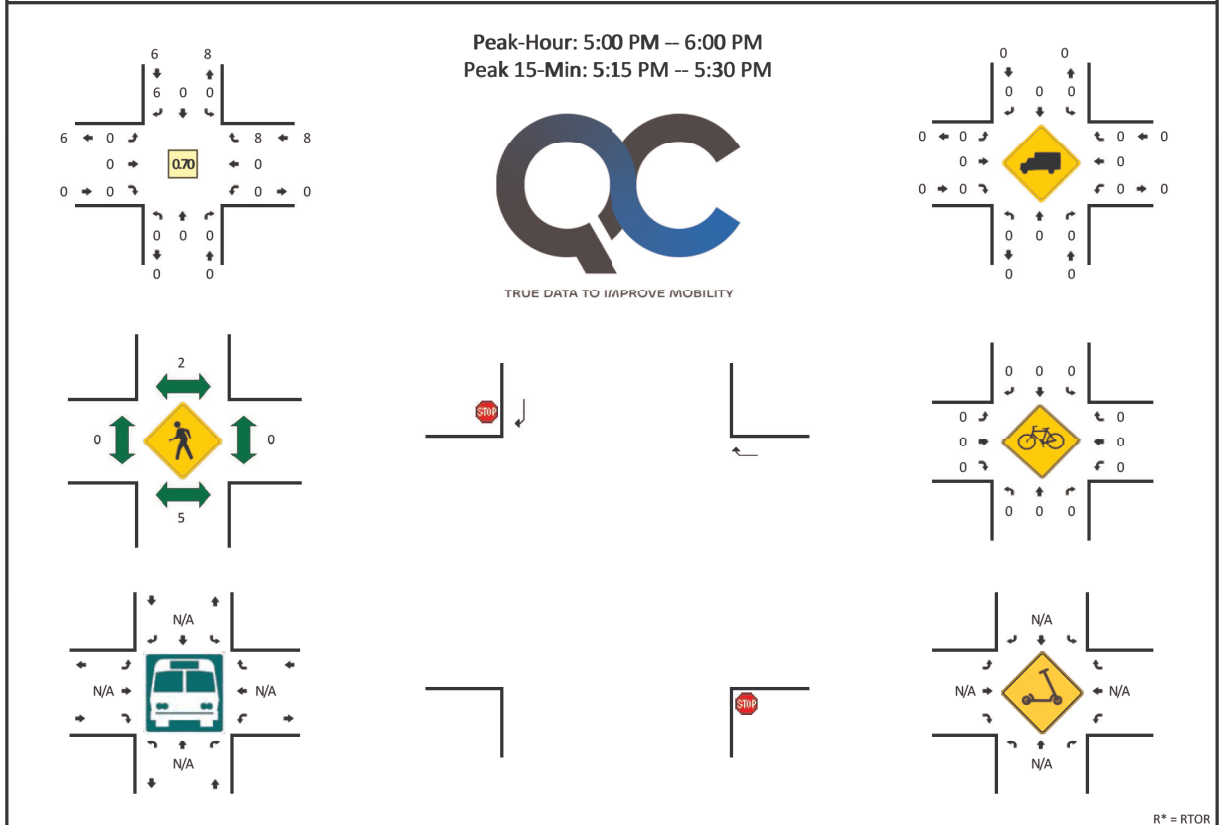
SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

LOCATION: Mars Avenue -- SR60
CITY/STATE: Clearwater, FL

QC JOB #: 17421806
DATE: Thu, Jan 22 2026



R* = RTOR

15-Min Count Period Beginning At	Mars Avenue (Northbound)					Mars Avenue (Southbound)					SR60 (Eastbound)					SR60 (Westbound)					Total	Hourly Totals
	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*		
4:00 PM	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	3	
4:15 PM	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	0	0	3	
4:30 PM	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	8
5:00 PM	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	3	0	0	4	9
5:15 PM	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	2	0	0	5	11
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	11
5:45 PM	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	0	0	4	14
Peak 15-Min Flowrates	Northbound					Southbound					Eastbound					Westbound					Total	
	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*		
All Vehicles	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	8	0	0	20	
Heavy Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Pedestrians	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bicycles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Scoters	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Comments:

Report generated on 1/27/2026 1:47 PM

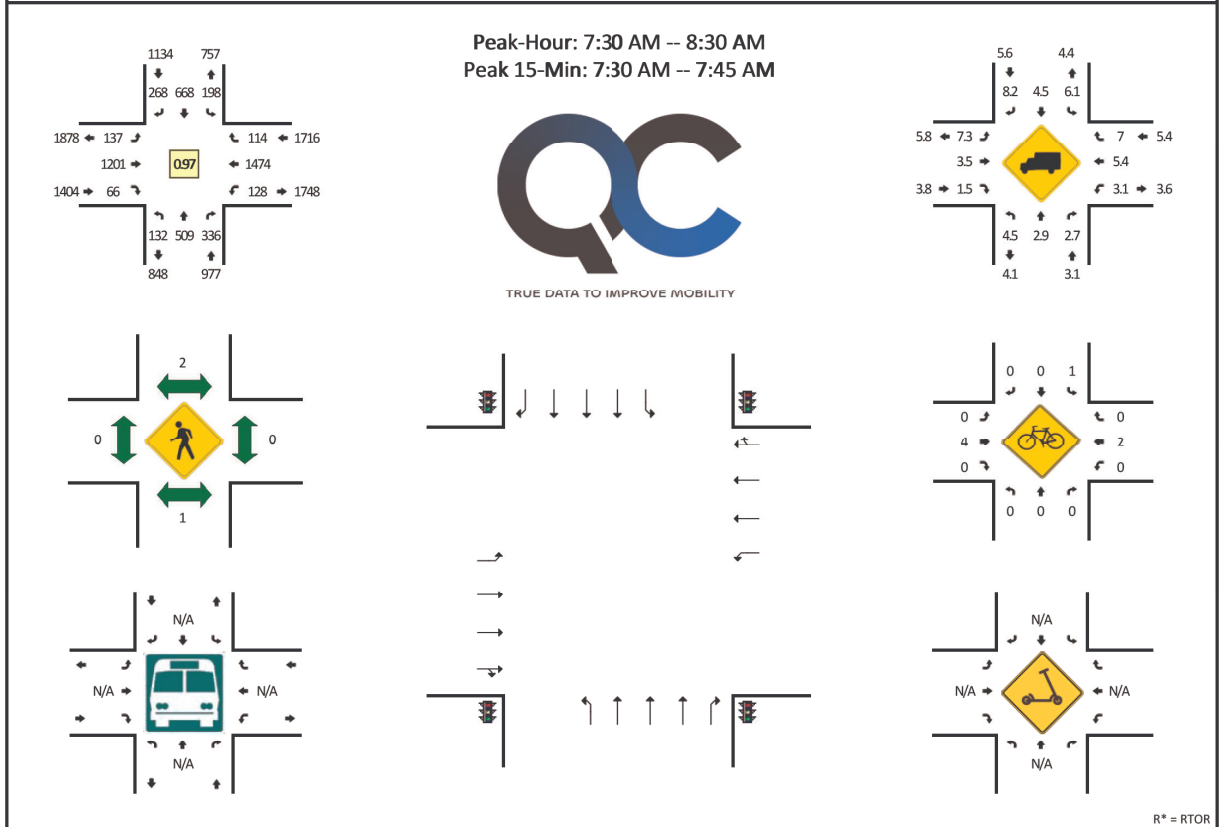
SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

LOCATION: Keene Road -- SR60
CITY/STATE: Clearwater, FL

QC JOB #: 17421807
DATE: Thu, Jan 22 2026



R* = RTOR

15-Min Count Period Beginning At	Keene Road (Northbound)					Keene Road (Southbound)					SR60 (Eastbound)					SR60 (Westbound)					Total	Hourly Totals
	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*		
7:00 AM	15	84	54	0	0	55	120	47	0	0	19	280	9	0	4	13	279	25	2	6	1012	
7:15 AM	25	127	63	0	0	43	155	66	0	0	22	257	4	1	2	23	306	27	3	4	1128	
7:30 AM	37	114	82	0	0	49	197	73	1	0	39	315	20	0	2	25	374	16	2	4	1350	
7:45 AM	36	138	66	0	0	54	175	72	0	0	33	297	20	0	3	31	364	34	3	3	1329	4819
8:00 AM	22	149	92	0	0	46	141	59	0	0	32	278	5	3	1	26	354	28	4	0	1240	5047
8:15 AM	37	108	96	0	0	48	155	64	0	0	29	311	15	1	0	32	382	24	5	5	1312	5231
8:30 AM	36	107	96	1	0	53	138	56	0	0	33	307	18	0	0	34	388	30	6	1	1304	5185
8:45 AM	29	110	77	0	0	48	118	71	0	0	39	321	18	1	1	36	346	29	1	1	1246	5102
Peak 15-Min Flowrates	Northbound					Southbound					Eastbound					Westbound					Total	
	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*		
All Vehicles	148	456	328	0	0	196	788	292	4	0	156	1260	88	0	8	100	1496	80	8	16	5424	
Heavy Trucks	4	12	8			8	12	16			8	32	4			4	40	4			152	
Buses																						
Pedestrians		4				0					0											
Bicycles	0	0	0			0	0	0			0	0	0			0	4	0			4	
Scoters																						

Comments:

Report generated on 1/27/2026 1:47 PM

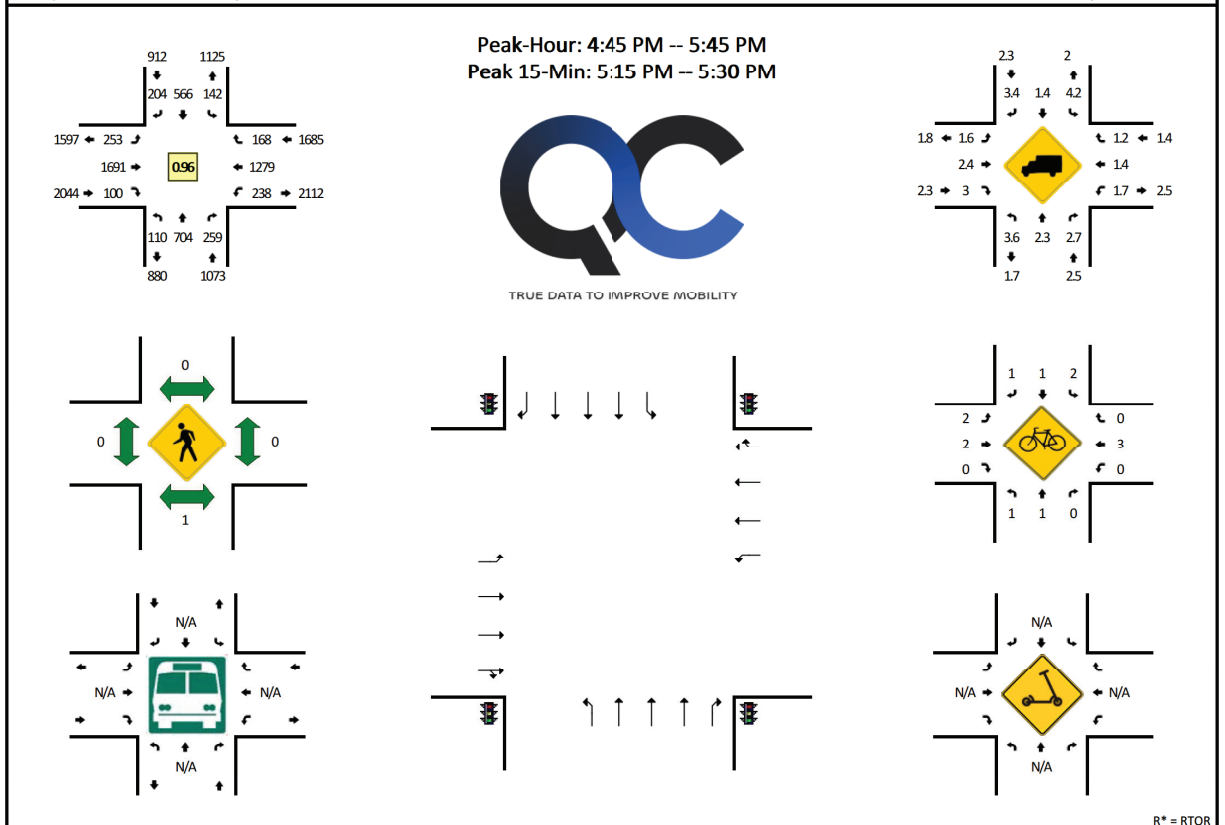
SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

LOCATION: Keene Road -- SR60
CITY/STATE: Clearwater, FL

QC JOB #: 17421808
DATE: Thu, Jan 22 2026



R* = RTOR

15-Min Count Period Beginning At	Keene Road (Northbound)					Keene Road (Southbound)					SR60 (Eastbound)					SR60 (Westbound)					Total	Hourly Totals
	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*		
4:00 PM	25	153	62	0	0	35	131	63	1	0	51	316	17	3	0	43	258	35	9	8	1210	
4:15 PM	21	171	72	0	0	44	94	41	0	0	54	406	20	1	0	53	350	46	6	3	1382	
4:30 PM	30	166	70	0	0	38	143	42	0	0	65	405	27	3	0	44	259	45	8	3	1348	
4:45 PM	29	189	61	0	0	30	143	48	2	0	57	401	19	1	1	57	341	39	8	2	1428	5368
5:00 PM	24	154	67	0	0	45	153	56	0	0	68	427	26	2	0	44	266	49	8	2	1391	5549
5:15 PM	30	213	67	0	0	27	129	42	0	0	53	427	31	1	1	60	365	36	7	3	1492	5659
5:30 PM	27	148	64	0	0	36	141	58	2	0	71	436	21	0	1	53	307	32	1	5	1403	5714
5:45 PM	22	158	66	0	0	28	85	43	2	0	51	314	31	0	2	54	340	48	7	6	1257	5543
Peak 15-Min Flowrates	Northbound					Southbound					Eastbound					Westbound					Total	
	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*	Left	Thru	Right	U	R*		
All Vehicles	120	852	268	0	0	108	516	168	0	0	212	1708	128	4	4	240	1460	156	28	12	5984	
Heavy Trucks	4	12	8			12	4	4			0	20	0			12	16	4			96	
Buses																					0	
Pedestrians		0					0					0					0				0	
Bicycles	4	0	0			4	0	0			0	0	0			0	8	0			16	
Scoters																						

Comments:

Report generated on 1/27/2026 1:47 PM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Method for determining peak hour: Total Entering Volume

QC JOB #: 17421809
DATE: Thu, Jan 22 2026



Comments:

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Method for determining peak hour: Total Entering Volume

QC JOB #: 17421810
DATE: Thu, Jan 22 2026



Comments:

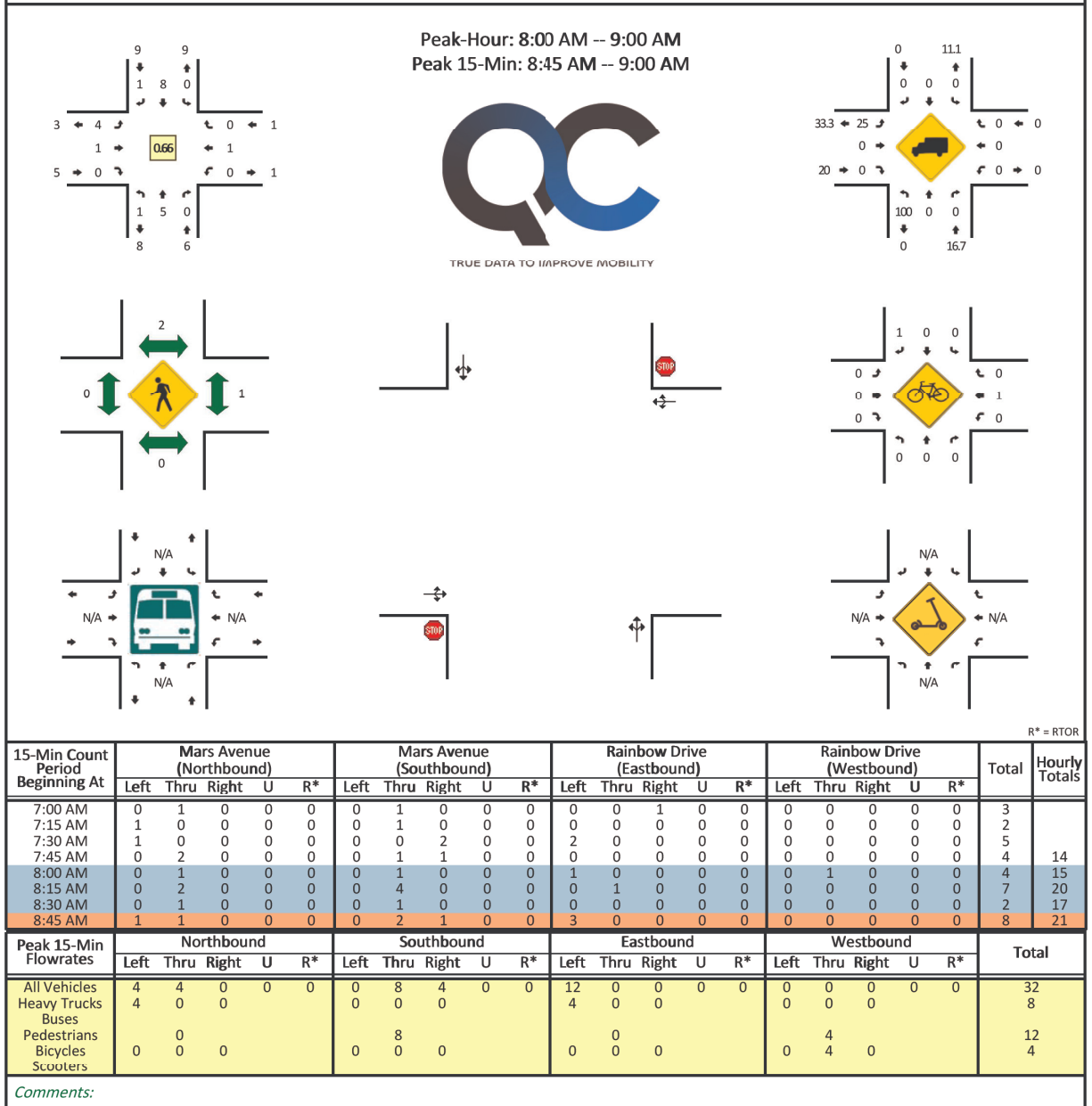
SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

LOCATION: Mars Avenue -- Rainbow Drive
CITY/STATE: Clearwater, FL

QC JOB #: 17421811
DATE: Thu, Jan 22 2026



Report generated on 1/27/2026 1:47 PM

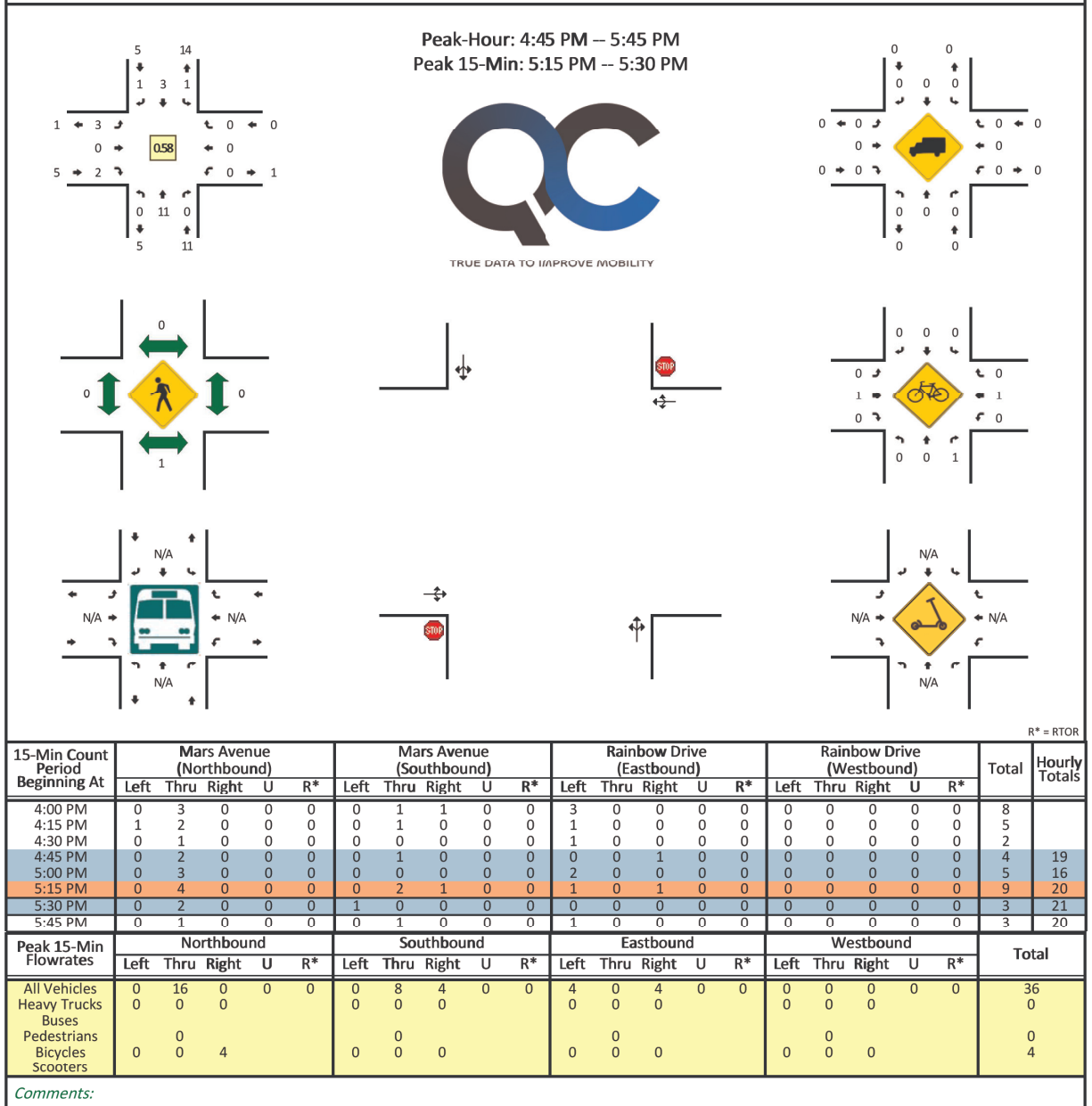
SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

LOCATION: Mars Avenue -- Rainbow Drive
CITY/STATE: Clearwater, FL

QC JOB #: 17421812
DATE: Thu, Jan 22 2026



Report generated on 1/27/2026 1:47 PM

SOURCE: Quality Counts, LLC (<http://www.qualitycounts.net>) 1-877-580-2212

2024 PEAK SEASON FACTOR CATEGORY REPORT - REPORT TYPE: ALL
CATEGORY: 1500 PINELLAS COUNTYWIDE

WEEK	DATES	SF	MOCF: 0.94 PSCF
1	01/01/2024 - 01/06/2024	1.03	1.10
2	01/07/2024 - 01/13/2024	1.04	1.11
3	01/14/2024 - 01/20/2024	1.04	1.11
4	01/21/2024 - 01/27/2024	1.02	1.09
5	01/28/2024 - 02/03/2024	1.00	1.08
6	02/04/2024 - 02/10/2024	0.98	1.04
* 7	02/11/2024 - 02/17/2024	0.96	1.02
* 8	02/18/2024 - 02/24/2024	0.95	1.01
* 9	02/25/2024 - 03/02/2024	0.94	1.00
*10	03/03/2024 - 03/09/2024	0.93	0.99
*11	03/10/2024 - 03/16/2024	0.92	0.98
*12	03/17/2024 - 03/23/2024	0.93	0.99
*13	03/24/2024 - 03/30/2024	0.93	0.99
*14	03/31/2024 - 04/06/2024	0.94	1.00
*15	04/07/2024 - 04/13/2024	0.94	1.00
*16	04/14/2024 - 04/20/2024	0.95	1.01
*17	04/21/2024 - 04/27/2024	0.96	1.02
*18	04/28/2024 - 05/04/2024	0.96	1.02
*19	05/05/2024 - 05/11/2024	0.97	1.03
20	05/12/2024 - 05/18/2024	0.98	1.04
21	05/19/2024 - 05/25/2024	0.99	1.05
22	05/26/2024 - 06/01/2024	0.99	1.05
23	06/02/2024 - 06/08/2024	1.00	1.06
24	06/09/2024 - 06/15/2024	1.01	1.07
25	06/16/2024 - 06/22/2024	1.01	1.07
26	06/23/2024 - 06/29/2024	1.02	1.09
27	06/30/2024 - 07/06/2024	1.02	1.09
28	07/07/2024 - 07/13/2024	1.02	1.09
29	07/14/2024 - 07/20/2024	1.03	1.10
30	07/21/2024 - 07/27/2024	1.04	1.11
31	07/28/2024 - 08/03/2024	1.05	1.12
32	08/04/2024 - 08/10/2024	1.06	1.13
33	08/11/2024 - 08/17/2024	1.07	1.14
34	08/18/2024 - 08/24/2024	1.07	1.14
35	08/25/2024 - 08/31/2024	1.08	1.15
36	09/01/2024 - 09/07/2024	1.08	1.15
37	09/08/2024 - 09/14/2024	1.09	1.16
38	09/15/2024 - 09/21/2024	1.09	1.16
39	09/22/2024 - 09/28/2024	1.08	1.15
40	09/29/2024 - 10/05/2024	1.06	1.13
41	10/06/2024 - 10/12/2024	1.05	1.12
42	10/13/2024 - 10/19/2024	1.04	1.11
43	10/20/2024 - 10/26/2024	1.02	1.09
44	10/27/2024 - 11/02/2024	1.01	1.07
45	11/03/2024 - 11/09/2024	0.99	1.05
46	11/10/2024 - 11/16/2024	0.98	1.04
47	11/17/2024 - 11/23/2024	0.99	1.05
48	11/24/2024 - 11/30/2024	1.00	1.06
49	12/01/2024 - 12/07/2024	1.01	1.07
50	12/08/2024 - 12/14/2024	1.02	1.09
51	12/15/2024 - 12/21/2024	1.03	1.10
52	12/22/2024 - 12/28/2024	1.04	1.11
53	12/29/2024 - 12/31/2024	1.04	1.11

* PEAK SEASON

WOODIE'S WASH SHACK

CLEARWATER, FLORIDA

TRANSPORTATION IMPACT ANALYSIS

APPENDIX E

HISTORICAL TRAFFIC GROWTH



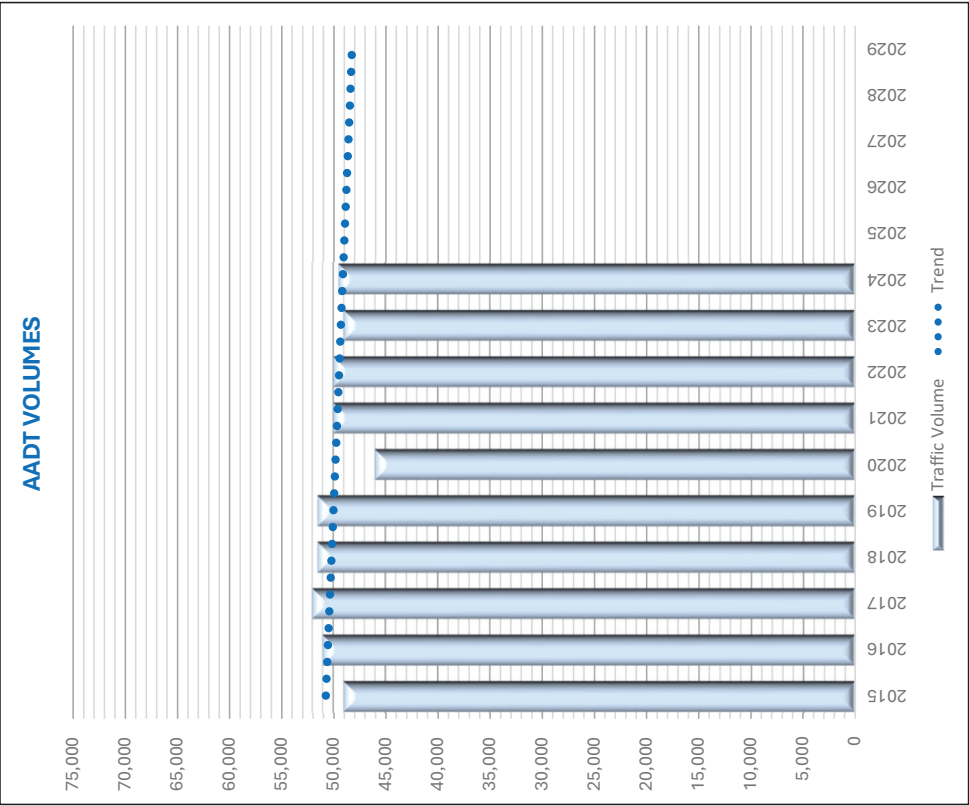
WOODIE'S WASH SHACK CLEARWATER

Growth Rate Calculations

Year	Location A	Location B	Location C	Location D	Total	Linear Trend
2024	49,500	---	---	---	49,500	49,145
2023	49,000	---	---	---	49,000	49,324
2022	50,000	---	---	---	50,000	49,503
2021	50,000	---	---	---	50,000	49,682
2020	46,000	---	---	---	46,000	49,861
2019	51,500	---	---	---	51,500	50,039
2018	51,500	---	---	---	51,500	50,218
2017	52,000	---	---	---	52,000	50,397
2016	51,000	---	---	---	51,000	50,576
2015	49,000	---	---	---	49,000	50,755
2026	Base Year					48,788
2029	Target Year					48,252
ANNUAL GROWTH RATE (2026-2029) >>> -0.4%						

SOURCE

Location A: FDOT COUNT STATION 15-5307 (SR 60, EAST OF DUNCAN AVE)
Location B: N/A
Location C: N/A
Location D: N/A



FLORIDA DEPARTMENT OF TRANSPORTATION
TRANSPORTATION STATISTICS OFFICE
2024 HISTORICAL AADT REPORT

COUNTY: 15 - PINELLAS

SITE: 5307 - SR 60/GULF TO BAY BLVD, EAST OF DUNCAN AVE

YEAR	AADT	DIRECTION 1	DIRECTION 2	*K FACTOR	D FACTOR	T FACTOR
----	-----	-----	-----	-----	-----	-----
2024	49500 C	E 25000	W 24500	9.00	53.40	4.90
2023	49000 C	E 24500	W 24500	9.00	53.20	4.50
2022	50000 F	E 25000	W 25000	9.00	53.20	4.70
2021	50000 C	E 25000	W 25000	9.00	53.00	3.50
2020	46000 C	E 23000	W 23000	9.00	55.30	3.20
2019	51500 F	E 26000	W 25500	9.00	55.70	3.20
2018	51500 C	E 26000	W 25500	9.00	55.50	3.20
2017	52000 F	E 26500	W 25500	9.00	54.50	3.10
2016	51000 C	E 26000	W 25000	9.00	55.90	3.10
2015	49000 F	E 24500	W 24500	9.00	55.00	3.50
2014	48000 C	E 24000	W 24000	9.00	55.40	3.20
2013	48500 C	E 24000	W 24500	9.00	55.20	3.30
2012	48000 C	E 24000	W 24000	9.00	55.00	3.10
2011	46500 C	E 23000	W 23500	9.00	56.50	2.50
2010	52500 C	E 26000	W 26500	10.52	55.26	2.60
2009	48500 C	E 24500	W 24000	10.53	55.79	2.70

AADT FLAGS: C = COMPUTED; E = MANUAL ESTIMATE; F = FIRST YEAR ESTIMATE
S = SECOND YEAR ESTIMATE; T = THIRD YEAR ESTIMATE; R = FOURTH YEAR ESTIMATE
V = FIFTH YEAR ESTIMATE; 6 = SIXTH YEAR ESTIMATE; X = UNKNOWN
*K FACTOR: STARTING WITH YEAR 2011 IS STANDARDK, PRIOR YEARS ARE K30 VALUES

WOODIE'S WASH SHACK

CLEARWATER, FLORIDA

TRANSPORTATION IMPACT ANALYSIS

APPENDIX F

FDOT GENERALIZED CAPACITIES



C3C & C3R

Motor Vehicle Arterial Generalized Service Volume Tables

Peak Hour Directional



	B	C	D	E
1 Lane	*	760	1,070	**
2 Lane	*	1,520	1,810	**
3 Lane	*	2,360	2,680	**
4 Lane	*	3,170	3,180	**

Peak Hour Two-Way

	B	C	D	E
2 Lane	*	1,380	1,950	**
4 Lane	*	2,760	3,290	**
6 Lane	*	4,290	4,870	**
8 Lane	*	5,760	5,780	**

AADT

	B	C	D	E
2 Lane	*	15,300	21,700	**
4 Lane	*	30,700	36,600	**
6 Lane	*	47,700	54,100	**
8 Lane	*	64,000	64,200	**



	B	C	D	E
1 Lane	*	970	1,110	**
2 Lane	*	1,700	1,850	**
3 Lane	*	2,620	2,730	**

	B	C	D	E
2 Lane	*	1,760	2,020	**
4 Lane	*	3,090	3,360	**
6 Lane	*	4,760	4,960	**

	B	C	D	E
2 Lane	*	19,600	22,400	**
4 Lane	*	34,300	37,300	**
6 Lane	*	52,900	55,100	**

Adjustment Factors

The peak hour directional service volumes should be adjusted by multiplying by 1.2 for one-way facilities	Exclusive right turn lane(s): Multiply by 1.05
The AADT service volumes should be adjusted by multiplying 0.6 for one way facilities 2 Lane Divided Roadway with an Exclusive Left Turn Lane(s): Multiply by 1.05	Multilane Undivided Roadway with an Exclusive Left Turn Lane(s): Multiply by 0.95
2 lane Undivided Roadway with No Exclusive Left Turn Lane(s): Multiply by 0.80	Multilane Roadway with No Exclusive Left Turn Lane(s): Multiply by 0.75
	Non-State Signalized Roadway: Multiply by 0.90

This table does not constitute a standard and should be used only for general planning applications. The table should not be used for corridor or intersection design, where more refined techniques exist.

* Cannot be achieved using table input value defaults.

** Not applicable for that level of service letter grade. For the automobile mode, volumes greater than level of service D become F because intersection capacities have been reached.

WOODIE'S WASH SHACK

CLEARWATER, FLORIDA

TRANSPORTATION IMPACT ANALYSIS

APPENDIX G

TRAFFIC SIGNAL TIMINGS





TRUE DATA TO IMPROVE MOBILITY

Site Code: 17421801 &
17421802

Date: 1/22/2026

Location: Duncan Avenue &
SR60

Count Times: 7:00AM - 9:00AM
4:00PM - 6:00PM

AM			PM		
----	--	--	----	--	--

1	2	3	1	2	3
---	---	---	---	---	---

0:16 _A	0:12 _B	0:15 _B	0:14 _C	0:16 _B	0:21 _C
1:56	2:22	2:14	2:37	2:20	2:33
0:19	0:26	0:27	0:44	0:26	0:29

A	B	C
---	---	---

↔	↔	↔
↔↔		
↔↔		

2:31	3:00	2:56	3:35	3:02	3:23
------	------	------	------	------	------

Total



TRUE DATA TO IMPROVE MOBILITY

Site Code: 17421807 &
17421808

Date: 1/22/2026

Location: Keene Road &
SR60

Count Times: 7:00AM - 9:00AM
4:00PM - 6:00PM

AM			PM		
----	--	--	----	--	--

1	2	3	1	2	3
---	---	---	---	---	---

0:22	0:27	0:20	0:44	0:36	0:36
0:58	0:52	1:01	0:56	1:05	0:58
0:28	0:27	0:28	0:34	0:36	0:35
0:26	0:26	0:27	0:29	0:28	0:29
0:12	0:39	-	0:18	0:15	0:10
0:29	-	0:38	0:18	0:26	0:26

A	B	C
---	---	---

↶		
↶↷		
↶		
↷		
↶↷		
↷		

2:55	2:51	2:54	3:19	3:26	3:14
------	------	------	------	------	------

Total

Timings
1: Keene Road & SR 60

Woodie's Wash Shack - Clearwater
AM Peak Hour Post-Development Conditions

										
Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations										
Traffic Volume (vph)	171	1399	148	1717	161	588	388	229	772	318
Future Volume (vph)	171	1399	148	1717	161	588	388	229	772	318
Turn Type	pm+pt	NA	pm+pt	NA	pm+pt	NA	pm+ov	pm+pt	NA	pm+ov
Protected Phases	5	2	1	6	3	8	1	7	4	5
Permitted Phases	2		6		8		8	4		4
Detector Phase	5	2	1	6	3	8	1	7	4	5
Switch Phase										
Minimum Initial (s)	5.0	15.0	5.0	15.0	5.0	10.0	5.0	5.0	10.0	5.0
Minimum Split (s)	11.4	21.4	11.4	21.4	11.4	16.4	11.4	11.4	16.4	11.4
Total Split (s)	26.0	75.0	25.0	74.0	25.0	45.0	25.0	30.0	50.0	26.0
Total Split (%)	14.9%	42.9%	14.3%	42.3%	14.3%	25.7%	14.3%	17.1%	28.6%	14.9%
Yellow Time (s)	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Lead/Lag	Lag	Lag	Lead	Lead	Lag	Lag	Lead	Lead	Lead	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	C-Max	None	C-Max	None	None	None	None	None	None

Intersection Summary

Cycle Length: 175

Actuated Cycle Length: 175

Offset: 91 (52%), Referenced to phase 2:EBTL and 6:WBTL, Start of Green

Natural Cycle: 90

Control Type: Actuated-Coordinated

Splits and Phases: 1: Keene Road & SR 60

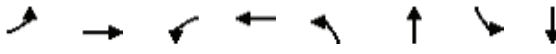
#1 	#1 	#1 	#1 
Ø1	Ø2 (R)	Ø4	Ø3
25 s	75 s	50 s	25 s
#1 	#1 	#1 	#1 
Ø6 (R)	Ø5	Ø7	Ø8
74 s	26 s	30 s	45 s

Timings

4: Duncan Avenue & SR 60

Woodie's Wash Shack - Clearwater

AM Peak Hour Post-Development Conditions

								
Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	22	1618	102	2112	8	12	31	24
Future Volume (vph)	22	1618	102	2112	8	12	31	24
Turn Type	pm+pt	NA	pm+pt	NA	Perm	NA	Perm	NA
Protected Phases	5	2	1	6		8		4
Permitted Phases	2		6		8		4	
Detector Phase	5	2	1	6	8	8	4	4
Switch Phase								
Minimum Initial (s)	5.0	15.0	5.0	15.0	7.0	7.0	7.0	7.0
Minimum Split (s)	11.4	21.4	11.4	21.4	13.4	13.4	13.4	13.4
Total Split (s)	20.0	125.0	20.0	125.0	30.0	30.0	30.0	30.0
Total Split (%)	11.4%	71.4%	11.4%	71.4%	17.1%	17.1%	17.1%	17.1%
Yellow Time (s)	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0		0.0		0.0
Total Lost Time (s)	6.4	6.4	6.4	6.4		6.4		6.4
Lead/Lag	Lead	Lag	Lead	Lag				
Lead-Lag Optimize?	Yes	Yes	Yes	Yes				
Recall Mode	None	C-Max	None	C-Max	None	None	None	None

Intersection Summary

Cycle Length: 175

Actuated Cycle Length: 175

Offset: 0 (0%), Referenced to phase 2:EBTL and 6:WBTL, Start of Green

Natural Cycle: 60

Control Type: Actuated-Coordinated

Splits and Phases: 4: Duncan Avenue & SR 60

#4 	#4 	#4
Ø1	Ø2 (R)	Ø4
20 s	125 s	30 s
#4 	#4 	#4
Ø5	Ø6 (R)	Ø8
20 s	125 s	30 s

Timings
1: Keene Road & SR 60

Woodie's Wash Shack - Clearwater
PM Peak Hour Post-Development Conditions

										
Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations										
Traffic Volume (vph)	314	1974	275	1497	139	813	299	164	654	247
Future Volume (vph)	314	1974	275	1497	139	813	299	164	654	247
Turn Type	pm+pt	NA	pm+pt	NA	pm+pt	NA	pm+ov	pm+pt	NA	pm+ov
Protected Phases	5	2	1	6	3	8	1	7	4	5
Permitted Phases	2		6		8		8	4		4
Detector Phase	5	2	1	6	3	8	1	7	4	5
Switch Phase										
Minimum Initial (s)	5.0	15.0	5.0	15.0	5.0	10.0	5.0	5.0	10.0	5.0
Minimum Split (s)	11.4	21.4	11.4	21.4	11.4	16.4	11.4	11.4	16.4	11.4
Total Split (s)	50.0	90.0	40.0	80.0	25.0	45.0	40.0	25.0	45.0	50.0
Total Split (%)	25.0%	45.0%	20.0%	40.0%	12.5%	22.5%	20.0%	12.5%	22.5%	25.0%
Yellow Time (s)	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Lead/Lag	Lag	Lag	Lead	Lead	Lag	Lag	Lead	Lead	Lead	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	C-Max	None	C-Max	None	None	None	None	None	None

Intersection Summary

Cycle Length: 200

Actuated Cycle Length: 200

Offset: 91 (46%), Referenced to phase 2:EBTL and 6:WBTL, Start of Green

Natural Cycle: 120

Control Type: Actuated-Coordinated

Splits and Phases: 1: Keene Road & SR 60

#1 	#1 	#1 	#1 
Ø1	Ø2 (R)	Ø4	Ø3
40 s	90 s	45 s	25 s
#1 	#1 	#1 	#1 
Ø6 (R)	Ø5	Ø7	Ø8
80 s	50 s	25 s	45 s

Timings

4: Duncan Avenue & SR 60

Woodie's Wash Shack - Clearwater

PM Peak Hour Post-Development Conditions

								
Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	31	2351	111	1774	13	29	34	21
Future Volume (vph)	31	2351	111	1774	13	29	34	21
Turn Type	pm+pt	NA	pm+pt	NA	Perm	NA	Perm	NA
Protected Phases	5	2	1	6		8		4
Permitted Phases	2		6		8		4	
Detector Phase	5	2	1	6	8	8	4	4
Switch Phase								
Minimum Initial (s)	5.0	15.0	5.0	15.0	7.0	7.0	7.0	7.0
Minimum Split (s)	11.4	21.4	11.4	21.4	13.4	13.4	13.4	13.4
Total Split (s)	20.0	140.0	20.0	140.0	40.0	40.0	40.0	40.0
Total Split (%)	10.0%	70.0%	10.0%	70.0%	20.0%	20.0%	20.0%	20.0%
Yellow Time (s)	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0		0.0		0.0
Total Lost Time (s)	6.4	6.4	6.4	6.4		6.4		6.4
Lead/Lag	Lead	Lag	Lead	Lag				
Lead-Lag Optimize?	Yes	Yes	Yes	Yes				
Recall Mode	None	C-Max	None	C-Max	None	None	None	None

Intersection Summary

Cycle Length: 200

Actuated Cycle Length: 200

Offset: 0 (0%), Referenced to phase 2:EBTL and 6:WBTL, Start of Green

Natural Cycle: 65

Control Type: Actuated-Coordinated

Splits and Phases: 4: Duncan Avenue & SR 60

#4 	#4 	#4 
Ø1	Ø2 (R)	Ø4
20 s	140 s	40 s
#4 	#4 	#4 
Ø5	Ø6 (R)	Ø8
20 s	140 s	40 s

WOODIE'S WASH SHACK

CLEARWATER, FLORIDA

TRANSPORTATION IMPACT ANALYSIS

APPENDIX H

INTERSECTION ANALYSIS



HCM 7th Signalized Intersection Summary
1: Keene Road & SR 60

Woodie's Wash Shack - Clearwater
AM Peak Hour Post-Development Conditions

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	171	1399	83	148	1717	131	161	588	388	229	772	318
Future Volume (veh/h)	171	1399	83	148	1717	131	161	588	388	229	772	318
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1796	1841	1870	1856	1826	1796	1826	1856	1856	1811	1826	1781
Adj Flow Rate, veh/h	176	1442	86	153	1770	135	166	606	400	236	796	328
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	7	4	2	3	5	7	5	3	3	6	5	8
Cap, veh/h	234	2055	123	173	1825	139	324	1117	464	274	979	465
Arrive On Green	0.04	0.14	0.14	0.07	0.39	0.39	0.16	0.22	0.22	0.13	0.20	0.20
Sat Flow, veh/h	1711	4850	289	1767	4725	360	1739	5066	1572	1725	4985	1510
Grp Volume(v), veh/h	176	996	532	153	1244	661	166	606	400	236	796	328
Grp Sat Flow(s),veh/h/ln	1711	1675	1789	1767	1662	1761	1739	1689	1572	1725	1662	1510
Q Serve(g_s), s	13.5	49.6	49.6	10.9	64.2	64.6	10.2	18.5	38.6	23.0	26.7	14.0
Cycle Q Clear(g_c), s	13.5	49.6	49.6	10.9	64.2	64.6	10.2	18.5	38.6	23.0	26.7	14.0
Prop In Lane	1.00		0.16	1.00		0.20	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	234	1419	758	173	1284	680	324	1117	464	274	979	465
V/C Ratio(X)	0.75	0.70	0.70	0.88	0.97	0.97	0.51	0.54	0.86	0.86	0.81	0.70
Avail Cap(c_a), veh/h	234	1419	758	229	1284	680	324	1117	464	274	1242	545
HCM Platoon Ratio	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	79.7	64.7	64.7	48.4	52.7	52.8	64.7	60.4	58.3	69.7	67.3	53.5
Incr Delay (d2), s/veh	12.8	2.9	5.4	25.6	18.7	28.3	1.4	0.5	15.2	23.4	3.4	3.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	9.1	23.1	25.1	6.0	29.6	33.4	6.8	8.0	18.5	11.9	11.6	4.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	92.5	67.6	70.1	74.1	71.4	81.1	66.0	60.9	73.5	93.1	70.6	56.9
LnGrp LOS	F	E	E	E	E	F	E	E	E	F	E	E
Approach Vol, veh/h	1704			2058			1172			1360		
Approach Delay, s/veh	71.0			74.7			65.9			71.2		
Approach LOS	E			E			E			E		
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	19.5	80.5	34.2	40.8	26.0	74.0	30.0	45.0				
Change Period (Y+Rc), s	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4				
Max Green Setting (Gmax), s	18.6	68.6	18.6	43.6	19.6	67.6	23.6	38.6				
Max Q Clear Time (g_c+I1), s	12.9	51.6	12.2	28.7	15.5	66.6	25.0	40.6				
Green Ext Time (p_c), s	0.2	9.3	0.2	5.6	0.2	0.9	0.0	0.0				
Intersection Summary												
HCM 7th Control Delay, s/veh	71.3											
HCM 7th LOS	E											

Intersection						
Int Delay, s/veh	0.4					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↑↑↑↑	↑↑↑↑			↑
Traffic Vol, veh/h	0	1653	2160	38	0	40
Future Vol, veh/h	0	1653	2160	38	0	40
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	4	5	0	0	0
Mvmt Flow	0	1740	2274	40	0	42

Major/Minor	Major1	Major2	Minor2
Conflicting Flow All	-	0	- 0 - 1157
Stage 1	-	-	- - -
Stage 2	-	-	- - -
Critical Hdwy	-	-	- - - 7.1
Critical Hdwy Stg 1	-	-	- - -
Critical Hdwy Stg 2	-	-	- - -
Follow-up Hdwy	-	-	- - - 3.9
Pot Cap-1 Maneuver	0	-	- - 0 165
Stage 1	0	-	- - 0 -
Stage 2	0	-	- - 0 -
Platoon blocked, %	-	-	-
Mov Cap-1 Maneuver	-	-	- - 165
Mov Cap-2 Maneuver	-	-	- - -
Stage 1	-	-	- - -
Stage 2	-	-	- - -

Approach	EB	WB	SB
HCM Ctrl Dly, s/v	0	0	34.05
HCM LOS			D

Minor Lane/Major Mvmt	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	-	-	-	165
HCM Lane V/C Ratio	-	-	-	0.255
HCM Ctrl Dly (s/v)	-	-	-	34
HCM Lane LOS	-	-	-	D
HCM 95th %tile Q(veh)	-	-	-	1

HCM 7th TWSC
3: SR 60 & Saturn Avenue

Woodie's Wash Shack - Clearwater
AM Peak Hour Post-Development Conditions

Intersection						
Int Delay, s/veh	1.4					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	↰	↰↰↰	↰↰↰			↰
Traffic Vol, veh/h	39	1653	2172	15	0	60
Future Vol, veh/h	39	1653	2172	15	0	60
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	260	-	-	-	-	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	4	5	0	0	8
Mvmt Flow	41	1740	2286	16	0	63

Major/Minor	Major1	Major2	Minor2
Conflicting Flow All	2302	0	0 - 1151
Stage 1	-	-	- - -
Stage 2	-	-	- - -
Critical Hdwy	5.3	-	- - 7.26
Critical Hdwy Stg 1	-	-	- - -
Critical Hdwy Stg 2	-	-	- - -
Follow-up Hdwy	3.1	-	- - 3.98
Pot Cap-1 Maneuver	90	-	- 0 157
Stage 1	-	-	- 0 -
Stage 2	-	-	- 0 -
Platoon blocked, %	-	-	-
Mov Cap-1 Maneuver	90	-	- - 157
Mov Cap-2 Maneuver	-	-	- - -
Stage 1	-	-	- - -
Stage 2	-	-	- - -

Approach	EB	WB	SB
HCM Ctrl Dly, s/v	1.72	0	42.59
HCM LOS			E

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	90	-	-	-	157
HCM Lane V/C Ratio	0.456	-	-	-	0.402
HCM Ctrl Dly (s/v)	74.8	-	-	-	42.6
HCM Lane LOS	F	-	-	-	E
HCM 95th %tile Q(veh)	1.9	-	-	-	1.8

HCM 7th Signalized Intersection Summary
4: Duncan Avenue & SR 60

Woodie's Wash Shack - Clearwater
AM Peak Hour Post-Development Conditions

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	22	1618	7	102	2112	20	8	12	25	31	24	8
Future Volume (veh/h)	22	1618	7	102	2112	20	8	12	25	31	24	8
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1826	1856	1900	1870	1841	1796	1900	1900	1900	1841	1826	1900
Adj Flow Rate, veh/h	23	1703	7	107	2223	21	8	13	26	33	25	8
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	5	3	0	2	4	7	0	0	0	4	5	0
Cap, veh/h	209	4223	17	297	4210	40	33	31	50	69	36	10
Arrive On Green	0.02	0.81	0.81	0.04	1.00	1.00	0.05	0.05	0.05	0.05	0.05	0.05
Sat Flow, veh/h	1739	5207	21	1781	5134	48	183	604	974	746	706	200
Grp Volume(v), veh/h	23	1104	606	107	1450	794	47	0	0	66	0	0
Grp Sat Flow(s),veh/h/ln	1739	1689	1852	1781	1675	1832	1761	0	0	1652	0	0
Q Serve(g_s), s	0.4	16.1	16.1	1.8	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0
Cycle Q Clear(g_c), s	0.4	16.1	16.1	1.8	0.0	0.0	4.6	0.0	0.0	6.7	0.0	0.0
Prop In Lane	1.00		0.01	1.00		0.03	0.17		0.55	0.50		0.12
Lane Grp Cap(c), veh/h	209	2739	1502	297	2748	1503	114	0	0	115	0	0
V/C Ratio(X)	0.11	0.40	0.40	0.36	0.53	0.53	0.41	0.00	0.00	0.57	0.00	0.00
Avail Cap(c_a), veh/h	310	2739	1502	385	2748	1503	251	0	0	242	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.33	1.33	1.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	2.6	4.6	4.6	3.5	0.0	0.0	81.0	0.0	0.0	81.9	0.0	0.0
Incr Delay (d2), s/veh	0.2	0.4	0.8	0.7	0.7	1.3	2.4	0.0	0.0	4.5	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	5.0	5.6	0.6	0.3	0.6	2.2	0.0	0.0	3.1	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	2.8	5.1	5.5	4.3	0.7	1.3	83.4	0.0	0.0	86.4	0.0	0.0
LnGrp LOS	A	A	A	A	A	A	F			F		
Approach Vol, veh/h	1733			2351			47			66		
Approach Delay, s/veh	5.2			1.1			83.4			86.4		
Approach LOS	A			A			F			F		
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	11.4	148.3		15.3	9.8	149.9		15.3				
Change Period (Y+Rc), s	6.4	6.4		6.4	6.4	6.4		6.4				
Max Green Setting (Gmax), s	13.6	118.6		23.6	13.6	118.6		23.6				
Max Q Clear Time (g_c+I1), s	3.8	18.1		8.7	2.4	2.0		6.6				
Green Ext Time (p_c), s	0.2	19.4		0.2	0.0	38.0		0.2				
Intersection Summary												
HCM 7th Control Delay, s/veh	5.0											
HCM 7th LOS	A											

HCM 7th TWSC
5: Mars Avenue & Rainbow Drive

Woodie's Wash Shack - Clearwater
AM Peak Hour Post-Development Conditions

Intersection												
Int Delay, s/veh	2.3											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	4	1	0	0	1	0	1	7	0	0	12	1
Future Vol, veh/h	4	1	0	0	1	0	1	7	0	0	12	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	66	66	66	66	66	66	66	66	66	66	66	66
Heavy Vehicles, %	25	0	0	0	0	0	100	0	0	0	0	0
Mvmt Flow	6	2	0	0	2	0	2	11	0	0	18	2

Major/Minor	Minor2		Minor1		Major1		Major2	
Conflicting Flow All	33	33	19	33	11	20	0	11
Stage 1	19	19	-	14	14	-	-	-
Stage 2	14	14	-	19	20	-	-	-
Critical Hdwy	7.35	6.5	6.2	7.1	6.5	6.2	5.1	4.1
Critical Hdwy Stg 1	6.35	5.5	-	6.1	5.5	-	-	-
Critical Hdwy Stg 2	6.35	5.5	-	6.1	5.5	-	-	-
Follow-up Hdwy	3.725	4	3.3	3.5	4	3.3	3.1	2.2
Pot Cap-1 Maneuver	919	864	1065	980	863	1076	1139	1622
Stage 1	944	884	-	1012	888	-	-	-
Stage 2	949	888	-	1005	883	-	-	-
Platoon blocked, %								
Mov Cap-1 Maneuver	916	863	1065	977	862	1076	1139	1622
Mov Cap-2 Maneuver	916	863	-	977	862	-	-	-
Stage 1	944	884	-	1010	887	-	-	-
Stage 2	946	887	-	1004	883	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	9.01	9.18	1.02	0
HCM LOS	A	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1WBLn1	SBL	SBT	SBR
Capacity (veh/h)	225	-	-	905	862	1622	-
HCM Lane V/C Ratio	0.001	-	-	0.008	0.002	-	-
HCM Ctrl Dly (s/v)	8.2	0	-	9	9.2	0	-
HCM Lane LOS	A	A	-	A	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0	0	0	-

HCM 7th TWSC
6: Saturn Avenue & Rainbow Drive

Woodie's Wash Shack - Clearwater
AM Peak Hour Post-Development Conditions

Intersection												
Int Delay, s/veh	2.3											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	4	3	3	0	4	1	2	19	1	0	27	4
Future Vol, veh/h	4	3	3	0	4	1	2	19	1	0	27	4
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	78	78	78	78	78	78	78	78	78	78	78	78
Heavy Vehicles, %	0	33	0	0	25	100	0	0	0	0	14	0
Mvmt Flow	5	4	4	0	5	1	3	24	1	0	35	5

Major/Minor	Minor2		Minor1		Major1		Major2				
Conflicting Flow All	69	68	37	67	70	25	40	0	26	0	0
Stage 1	37	37	-	30	30	-	-	-	-	-	-
Stage 2	32	31	-	37	40	-	-	-	-	-	-
Critical Hdwy	7.1	6.83	6.2	7.1	6.75	7.2	4.1	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.83	-	6.1	5.75	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.83	-	6.1	5.75	-	-	-	-	-	-
Follow-up Hdwy	3.5	4.297	3.3	3.5	4.225	4.2	2.2	-	2.2	-	-
Pot Cap-1 Maneuver	928	767	1041	931	779	827	1583	-	1602	-	-
Stage 1	983	806	-	992	826	-	-	-	-	-	-
Stage 2	989	812	-	984	818	-	-	-	-	-	-
Platoon blocked, %								-	-	-	-
Mov Cap-1 Maneuver	919	765	1041	922	777	827	1583	-	1602	-	-
Mov Cap-2 Maneuver	919	765	-	922	777	-	-	-	-	-	-
Stage 1	983	806	-	990	825	-	-	-	-	-	-
Stage 2	980	810	-	976	818	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	9.07	9.61	0.66	0
HCM LOS	A	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1WBLn1	SBL	SBT	SBR
Capacity (veh/h)	162	-	-	896	787	1602	-
HCM Lane V/C Ratio	0.002	-	-	0.014	0.008	-	-
HCM Ctrl Dly (s/v)	7.3	0	-	9.1	9.6	0	-
HCM Lane LOS	A	A	-	A	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0	0	0	-

Intersection						
Int Delay, s/veh	6.1					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	W			1	1	
Traffic Vol, veh/h	2	28	36	7	10	2
Future Vol, veh/h	2	28	36	7	10	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	2	30	39	8	11	2
Major/Minor	Minor2	Major1		Major2		
Conflicting Flow All	98	12	13	0	-	0
Stage 1	12	-	-	-	-	-
Stage 2	86	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	901	1069	1605	-	-	-
Stage 1	1011	-	-	-	-	-
Stage 2	937	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	879	1069	1605	-	-	-
Mov Cap-2 Maneuver	879	-	-	-	-	-
Stage 1	986	-	-	-	-	-
Stage 2	937	-	-	-	-	-
Approach	EB	NB		SB		
HCM Ctrl Dly, s/v	8.53	6.11		0		
HCM LOS	A					
Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR	
Capacity (veh/h)	1507	-	1054	-	-	
HCM Lane V/C Ratio	0.024	-	0.031	-	-	
HCM Ctrl Dly (s/v)	7.3	0	8.5	-	-	
HCM Lane LOS	A	A	A	-	-	
HCM 95th %tile Q(veh)	0.1	-	0.1	-	-	

Intersection						
Int Delay, s/veh	2.7					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W		T			T
Traffic Vol, veh/h	31	2	21	32	2	29
Future Vol, veh/h	31	2	21	32	2	29
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	34	2	23	35	2	32

Major/Minor	Minor1	Major1	Major2		
Conflicting Flow All	76	40	0	0	58
Stage 1	40	-	-	-	-
Stage 2	36	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12
Critical Hdwy Stg 1	5.42	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218
Pot Cap-1 Maneuver	927	1031	-	-	1547
Stage 1	982	-	-	-	-
Stage 2	987	-	-	-	-
Platoon blocked, %			-	-	-
Mov Cap-1 Maneuver	926	1031	-	-	1547
Mov Cap-2 Maneuver	926	-	-	-	-
Stage 1	981	-	-	-	-
Stage 2	987	-	-	-	-

Approach	WB	NB	SB
HCM Ctrl Dly, s/v	9.02	0	0.47
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	-	932	116
HCM Lane V/C Ratio	-	-	0.039	0.001
HCM Ctrl Dly (s/v)	-	-	9	7.3
HCM Lane LOS	-	-	A	A
HCM 95th %tile Q(veh)	-	-	0.1	0

HCM 7th Signalized Intersection Summary
1: Keene Road & SR 60

Woodie's Wash Shack - Clearwater
PM Peak Hour Post-Development Conditions

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	314	1974	128	275	1497	194	139	813	299	164	654	247
Future Volume (veh/h)	314	1974	128	275	1497	194	139	813	299	164	654	247
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1796	1841	1870	1856	1826	1796	1826	1856	1856	1811	1826	1781
Adj Flow Rate, veh/h	324	2035	132	284	1543	200	143	838	308	169	674	255
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	7	4	2	3	5	7	5	3	3	6	5	8
Cap, veh/h	430	2146	138	301	1644	213	250	933	525	196	800	585
Arrive On Green	0.15	0.30	0.30	0.15	0.37	0.37	0.12	0.18	0.18	0.09	0.16	0.16
Sat Flow, veh/h	1711	4823	311	1767	4467	578	1739	5066	1572	1725	4985	1510
Grp Volume(v), veh/h	324	1410	757	284	1147	596	143	838	308	169	674	255
Grp Sat Flow(s),veh/h/ln	1711	1675	1785	1767	1662	1722	1739	1689	1572	1725	1662	1510
Q Serve(g_s), s	31.1	82.3	83.1	27.7	66.6	66.9	9.9	32.3	32.4	18.6	26.3	0.0
Cycle Q Clear(g_c), s	31.1	82.3	83.1	27.7	66.6	66.9	9.9	32.3	32.4	18.6	26.3	0.0
Prop In Lane	1.00		0.17	1.00		0.34	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	430	1490	794	301	1223	634	250	933	525	196	800	585
V/C Ratio(X)	0.75	0.95	0.95	0.94	0.94	0.94	0.57	0.90	0.59	0.86	0.84	0.44
Avail Cap(c_a), veh/h	430	1490	794	333	1223	634	250	978	539	196	962	634
HCM Platoon Ratio	0.67	0.67	0.67	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	76.7	67.9	68.1	65.7	61.0	61.1	80.6	79.8	55.1	82.6	81.5	45.2
Incr Delay (d2), s/veh	7.3	13.6	22.4	33.2	14.6	23.7	3.1	10.7	1.6	29.9	5.9	0.5
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	17.2	38.9	43.8	17.2	30.3	33.1	7.1	15.0	13.1	10.0	11.7	9.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	84.0	81.5	90.5	98.9	75.6	84.8	83.7	90.5	56.7	112.5	87.4	45.7
LnGrp LOS	F	F	F	F	E	F	F	F	F	E	F	D
Approach Vol, veh/h	2491			2027			1289			1098		
Approach Delay, s/veh	84.5			81.6			81.7			81.6		
Approach LOS	F			F			F			F		
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	36.4	95.4	29.7	38.5	51.8	80.0	25.0	43.2				
Change Period (Y+Rc), s	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4				
Max Green Setting (Gmax), s	33.6	83.6	18.6	38.6	43.6	73.6	18.6	38.6				
Max Q Clear Time (g_c+I1), s	29.7	85.1	11.9	28.3	33.1	68.9	20.6	34.4				
Green Ext Time (p_c), s	0.3	0.0	0.2	3.8	0.7	3.8	0.0	2.4				
Intersection Summary												
HCM 7th Control Delay, s/veh	82.7											
HCM 7th LOS	F											

Intersection						
Int Delay, s/veh	0.2					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↑↑↑↑	↑↑↑↑			↑
Traffic Vol, veh/h	0	2415	1849	49	0	41
Future Vol, veh/h	0	2415	1849	49	0	41
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	4	5	0	0	0
Mvmt Flow	0	2542	1946	52	0	43

Major/Minor	Major1	Major2	Minor2
Conflicting Flow All	-	0	- 0 - 999
Stage 1	-	-	- - -
Stage 2	-	-	- - -
Critical Hdwy	-	-	- - 7.1
Critical Hdwy Stg 1	-	-	- - -
Critical Hdwy Stg 2	-	-	- - -
Follow-up Hdwy	-	-	- - 3.9
Pot Cap-1 Maneuver	0	-	- - 0 211
Stage 1	0	-	- - 0 -
Stage 2	0	-	- - 0 -
Platoon blocked, %	-	-	-
Mov Cap-1 Maneuver	-	-	- - 211
Mov Cap-2 Maneuver	-	-	- - -
Stage 1	-	-	- - -
Stage 2	-	-	- - -

Approach	EB	WB	SB
HCM Ctrl Dly, s/v	0	0	26.44
HCM LOS			D

Minor Lane/Major Mvmt	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	-	-	-	211
HCM Lane V/C Ratio	-	-	-	0.205
HCM Ctrl Dly (s/v)	-	-	-	26.4
HCM Lane LOS	-	-	-	D
HCM 95th %tile Q(veh)	-	-	-	0.7

Intersection						
Int Delay, s/veh	1.1					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	↱	↱↱↱	↱↱↱			↱
Traffic Vol, veh/h	56	2415	1853	30	0	58
Future Vol, veh/h	56	2415	1853	30	0	58
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	260	-	-	-	-	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	4	5	0	0	8
Mvmt Flow	59	2542	1951	32	0	61

Major/Minor	Major1	Major2	Minor2
Conflicting Flow All	1982	0	0
Stage 1	-	-	-
Stage 2	-	-	-
Critical Hdwy	5.3	-	-
Critical Hdwy Stg 1	-	-	-
Critical Hdwy Stg 2	-	-	-
Follow-up Hdwy	3.1	-	-
Pot Cap-1 Maneuver	131	-	0
Stage 1	-	-	0
Stage 2	-	-	0
Platoon blocked, %	-	-	-
Mov Cap-1 Maneuver	131	-	-
Mov Cap-2 Maneuver	-	-	-
Stage 1	-	-	-
Stage 2	-	-	-

Approach	EB	WB	SB
HCM Ctrl Dly, s/v	1.21	0	30.4
HCM LOS			D

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	131	-	-	-	202
HCM Lane V/C Ratio	0.451	-	-	-	0.303
HCM Ctrl Dly (s/v)	53.3	-	-	-	30.4
HCM Lane LOS	F	-	-	-	D
HCM 95th %tile Q(veh)	2	-	-	-	1.2

HCM 7th Signalized Intersection Summary
4: Duncan Avenue & SR 60

Woodie's Wash Shack - Clearwater
PM Peak Hour Post-Development Conditions

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	31	2351	7	111	1774	38	13	29	45	34	21	12
Future Volume (veh/h)	31	2351	7	111	1774	38	13	29	45	34	21	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1826	1856	1900	1870	1841	1796	1900	1900	1900	1841	1826	1900
Adj Flow Rate, veh/h	33	2475	7	117	1867	40	14	31	47	36	22	13
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	5	3	0	2	4	7	0	0	0	4	5	0
Cap, veh/h	259	4234	12	166	4130	88	33	45	60	64	34	16
Arrive On Green	0.02	0.81	0.81	0.05	1.00	1.00	0.07	0.07	0.07	0.07	0.07	0.07
Sat Flow, veh/h	1739	5215	15	1781	5063	108	178	676	892	553	505	237
Grp Volume(v), veh/h	33	1602	880	117	1235	672	92	0	0	71	0	0
Grp Sat Flow(s),veh/h/ln	1739	1689	1853	1781	1675	1821	1746	0	0	1295	0	0
Q Serve(g_s), s	0.6	34.0	34.0	2.4	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0
Cycle Q Clear(g_c), s	0.6	34.0	34.0	2.4	0.0	0.0	10.3	0.0	0.0	11.1	0.0	0.0
Prop In Lane	1.00		0.01	1.00		0.06	0.15		0.51	0.51		0.18
Lane Grp Cap(c), veh/h	259	2742	1504	166	2733	1486	138	0	0	114	0	0
V/C Ratio(X)	0.13	0.58	0.58	0.70	0.45	0.45	0.67	0.00	0.00	0.62	0.00	0.00
Avail Cap(c_a), veh/h	341	2742	1504	243	2733	1486	305	0	0	262	0	0
HCM Platoon Ratio	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	2.8	6.7	6.7	20.0	0.0	0.0	91.8	0.0	0.0	92.0	0.0	0.0
Incr Delay (d2), s/veh	0.2	0.9	1.7	5.3	0.5	1.0	5.4	0.0	0.0	5.4	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	11.2	12.6	5.0	0.2	0.4	5.0	0.0	0.0	3.9	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	3.1	7.7	8.4	25.3	0.5	1.0	97.2	0.0	0.0	97.4	0.0	0.0
LnGrp LOS	A	A	A	C	A	A	F			F		
Approach Vol, veh/h	2515			2024			92			71		
Approach Delay, s/veh	7.9			2.1			97.2			97.4		
Approach LOS	A			A			F			F		
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	11.4	168.8		19.8	10.6	169.6		19.8				
Change Period (Y+Rc), s	6.4	6.4		6.4	6.4	6.4		6.4				
Max Green Setting (Gmax), s	13.6	133.6		33.6	13.6	133.6		33.6				
Max Q Clear Time (g_c+I1), s	4.4	36.0		13.1	2.6	2.0		12.3				
Green Ext Time (p_c), s	0.2	46.2		0.3	0.0	25.4		0.4				
Intersection Summary												
HCM 7th Control Delay, s/veh	8.5											
HCM 7th LOS	A											

HCM 7th TWSC
5: Mars Avenue & Rainbow Drive

Woodie's Wash Shack - Clearwater
PM Peak Hour Post-Development Conditions

Intersection												
Int Delay, s/veh	1.8											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	3	0	2	0	0	0	0	16	0	1	6	1
Future Vol, veh/h	3	0	2	0	0	0	0	16	0	1	6	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	66	66	66	66	66	66	66	66	66	66	66	66
Heavy Vehicles, %	25	0	0	0	0	0	100	0	0	0	0	0
Mvmt Flow	5	0	3	0	0	0	0	24	0	2	9	2

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	37	37	10	36	38	24	11	0	0	24	0	0
Stage 1	13	13	-	24	24	-	-	-	-	-	-	-
Stage 2	24	24	-	12	14	-	-	-	-	-	-	-
Critical Hdwy	7.35	6.5	6.2	7.1	6.5	6.2	5.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.35	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.35	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.725	4	3.3	3.5	4	3.3	3.1	-	-	2.2	-	-
Pot Cap-1 Maneuver	913	859	1077	974	858	1058	1149	-	-	1604	-	-
Stage 1	951	889	-	999	879	-	-	-	-	-	-	-
Stage 2	938	879	-	1014	888	-	-	-	-	-	-	-
Platoon blocked, %								-	-	-	-	-
Mov Cap-1 Maneuver	912	858	1077	971	858	1058	1149	-	-	1604	-	-
Mov Cap-2 Maneuver	912	858	-	971	858	-	-	-	-	-	-	-
Stage 1	950	888	-	999	879	-	-	-	-	-	-	-
Stage 2	938	879	-	1010	887	-	-	-	-	-	-	-

Approach	EB			WB			NB			SB		
HCM Ctrl Dly, s/v	8.73			0			0			0.91		
HCM LOS	A			A								

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1149	-	-	972	-	219	-
HCM Lane V/C Ratio	-	-	-	0.008	-	0.001	-
HCM Ctrl Dly (s/v)	0	-	-	8.7	0	7.2	0
HCM Lane LOS	A	-	-	A	A	A	A
HCM 95th %tile Q(veh)	0	-	-	0	-	0	-

HCM 7th TWSC
6: Saturn Avenue & Rainbow Drive

Woodie's Wash Shack - Clearwater
PM Peak Hour Post-Development Conditions

Intersection												
Int Delay, s/veh	1.8											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	5	5	3	1	0	0	1	51	2	1	12	1
Future Vol, veh/h	5	5	3	1	0	0	1	51	2	1	12	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	78	78	78	78	78	78	78	78	78	78	78	78
Heavy Vehicles, %	0	33	0	0	25	100	0	0	0	0	14	0
Mvmt Flow	6	6	4	1	0	0	1	65	3	1	15	1

Major/Minor	Minor2		Minor1		Major1		Major2				
Conflicting Flow All	87	89	16	90	88	67	17	0	68	0	0
Stage 1	19	19	-	69	69	-	-	-	-	-	-
Stage 2	68	71	-	21	19	-	-	-	-	-	-
Critical Hdwy	7.1	6.83	6.2	7.1	6.75	7.2	4.1	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.83	-	6.1	5.75	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.83	-	6.1	5.75	-	-	-	-	-	-
Follow-up Hdwy	3.5	4.297	3.3	3.5	4.225	4.2	2.2	-	2.2	-	-
Pot Cap-1 Maneuver	904	746	1069	899	760	780	1614	-	1546	-	-
Stage 1	1006	822	-	946	794	-	-	-	-	-	-
Stage 2	947	779	-	1003	836	-	-	-	-	-	-
Platoon blocked, %								-	-	-	-
Mov Cap-1 Maneuver	903	745	1069	887	759	780	1614	-	1546	-	-
Mov Cap-2 Maneuver	903	745	-	887	759	-	-	-	-	-	-
Stage 1	1005	821	-	945	794	-	-	-	-	-	-
Stage 2	947	779	-	990	835	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	9.25	9.07	0.13	0.52
HCM LOS	A	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1WBLn1	SBL	SBT	SBR
Capacity (veh/h)	33	-	-	863	887	127	-
HCM Lane V/C Ratio	0.001	-	-	0.019	0.001	0.001	-
HCM Ctrl Dly (s/v)	7.2	0	-	9.3	9.1	7.3	0
HCM Lane LOS	A	A	-	A	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.1	0	0	-

Intersection						
Int Delay, s/veh	6.2					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	W			1	1	
Traffic Vol, veh/h	3	34	39	13	5	3
Future Vol, veh/h	3	34	39	13	5	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	3	37	42	14	5	3
Major/Minor	Minor2	Major1		Major2		
Conflicting Flow All	106	7	9	0	-	0
Stage 1	7	-	-	-	-	-
Stage 2	99	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	892	1075	1611	-	-	-
Stage 1	1016	-	-	-	-	-
Stage 2	925	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	868	1075	1611	-	-	-
Mov Cap-2 Maneuver	868	-	-	-	-	-
Stage 1	989	-	-	-	-	-
Stage 2	925	-	-	-	-	-
Approach	EB	NB		SB		
HCM Ctrl Dly, s/v	8.55	5.47		0		
HCM LOS	A					
Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR	
Capacity (veh/h)	1350	-	1055	-	-	
HCM Lane V/C Ratio	0.026	-	0.038	-	-	
HCM Ctrl Dly (s/v)	7.3	0	8.5	-	-	
HCM Lane LOS	A	A	A	-	-	
HCM 95th %tile Q(veh)	0.1	-	0.1	-	-	

Intersection						
Int Delay, s/veh	3.1					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W		T			T
Traffic Vol, veh/h	45	4	50	38	4	13
Future Vol, veh/h	45	4	50	38	4	13
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	49	4	54	41	4	14
Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	98	75	0	0	96	0
Stage 1	75	-	-	-	-	-
Stage 2	23	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	901	986	-	-	1498	-
Stage 1	948	-	-	-	-	-
Stage 2	1000	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	899	986	-	-	1498	-
Mov Cap-2 Maneuver	899	-	-	-	-	-
Stage 1	945	-	-	-	-	-
Stage 2	1000	-	-	-	-	-
Approach	WB	NB		SB		
HCM Ctrl Dly, s/v	9.23	0		1.74		
HCM LOS	A					
Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT		
Capacity (veh/h)	-	-	905	424		
HCM Lane V/C Ratio	-	-	0.059	0.003		
HCM Ctrl Dly (s/v)	-	-	9.2	7.4		
HCM Lane LOS	-	-	A	A		
HCM 95th %tile Q(veh)	-	-	0.2	0		

WOODIE'S WASH SHACK

CLEARWATER, FLORIDA

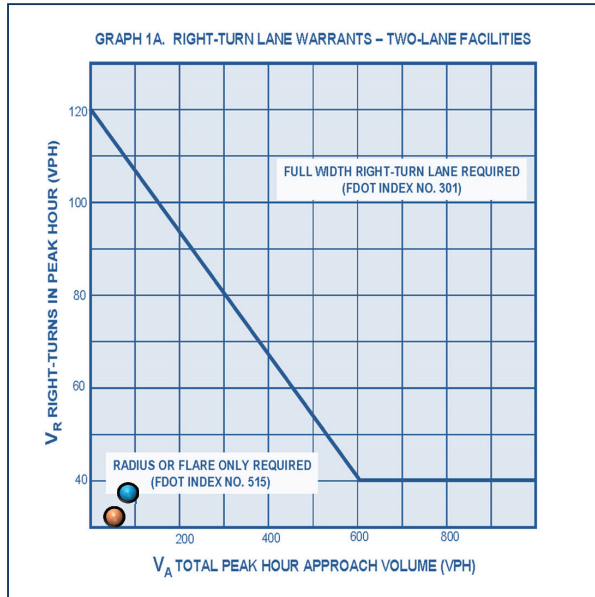
TRANSPORTATION IMPACT ANALYSIS

APPENDIX I

SITE ACCESS TURN LANE WARRANT ANALYSIS



LOCATION: SATURN AVENUE & PROJECT SITE DRIVEWAY



SOURCE: ADAPTED FROM NCHRP NO. 279

RIGHT TURN LANE WARRANT

NORTHBOUND RIGHT TURN LANE

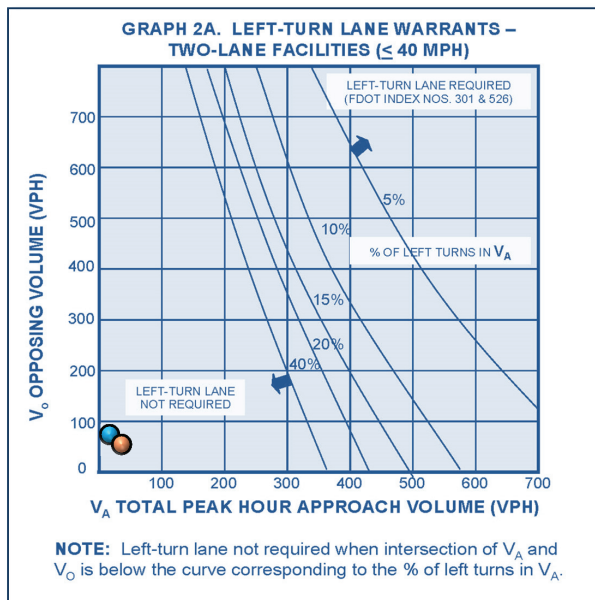
AM PEAK HOUR

Right Turn Volume: **32 vph**
Approach Volume: **53 vph**

PM PEAK HOUR

Right Turn Volume: **38 vph**
Approach Volume: **88 vph**

RESULT: NOT WARRANTED



SOURCE: ADAPTED FROM NCHRP NO. 279

LEFT TURN LANE WARRANT

SOUTHBOUND LEFT TURN LANE

AM PEAK HOUR

Left Turn Volume: **2 vph**
Approach Volume: **31 vph**
Opposing Volume: **53 vph**

PM PEAK HOUR

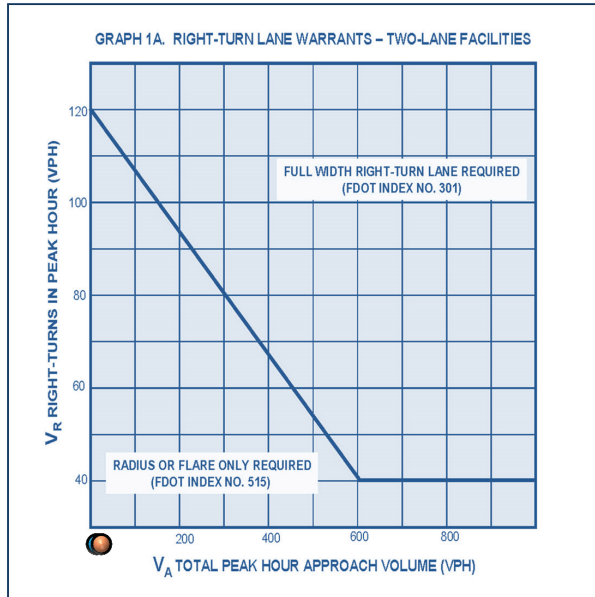
Left Turn Volume: **4 vph**
Approach Volume: **17 vph**
Opposing Volume: **88 vph**

RESULT: NOT WARRANTED

WOODIE'S WASH SHACK - CLEARWATER
TURN LANE WARRANT EVALUATION



LOCATION: MARS AVENUE & PROJECT SITE DRIVEWAY



SOURCE: ADAPTED FROM NCHRP NO. 279

RIGHT TURN LANE WARRANT

SOUTHBOUND RIGHT TURN LANE

AM PEAK HOUR

Right Turn Volume: **2 vph**

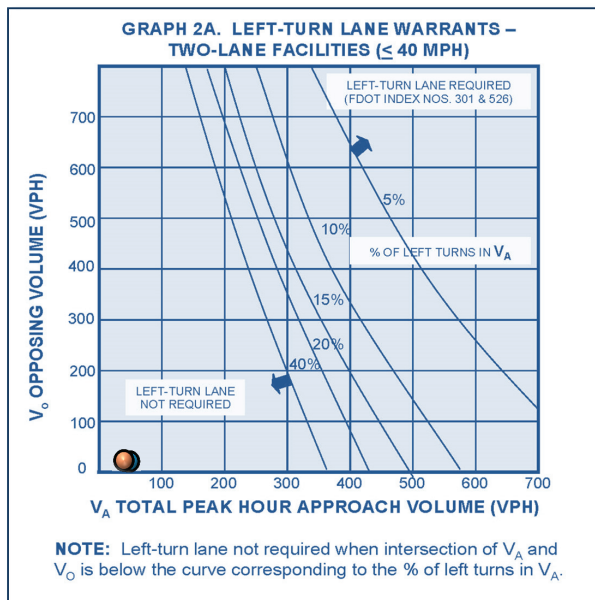
Approach Volume: **12 vph**

PM PEAK HOUR

Right Turn Volume: **3 vph**

Approach Volume: **8 vph**

RESULT: NOT WARRANTED



SOURCE: ADAPTED FROM NCHRP NO. 279

LEFT TURN LANE WARRANT

NORTHBOUND LEFT TURN LANE

AM PEAK HOUR

Left Turn Volume: **36 vph**

Approach Volume: **43 vph**

Opposing Volume: **12 vph**

PM PEAK HOUR

Left Turn Volume: **39 vph**

Approach Volume: **52 vph**

Opposing Volume: **8 vph**

RESULT: NOT WARRANTED

WOODIE'S WASH SHACK - CLEARWATER

TURN LANE WARRANT EVALUATION



WOODIE'S WASH SHACK

CLEARWATER, FLORIDA

TRANSPORTATION IMPACT ANALYSIS

APPENDIX J

**CRASH DATA
(01/01/18 – 12/31/22)**



FDOT Crash Number	Crash Year	Crash Date	Crash Time	On Roadway Name	Intersecting Roadway Name	Reference Distance (Miles)	Reference Direction	Highest Injury in Crash	Manner of Collision
875666260	2018	02/22/18	2049	KEENE RD S	GULF TO BAY BLVD	0.013	N	1 NO INJURY	01 FRONT TO REAR
878288360	2018	05/10/18	0342	GULF TO BAY BLVD	KEENE RD S	0		2 POSSIBLE INJURY	03 ANGLE
875659830	2018	01/02/18	0601	SR 60	KEENE RD S	0		3 NO-INCAPACITATING INJURY	03 ANGLE
878286960	2018	04/29/18	0856	GULF TO BAY BLVD	KEENE RD S	0		1 NO INJURY	03 ANGLE
887562060	2018	11/22/18	0817	GULF TO BAY BLVD	KEENE RD S	0.015	W	2 POSSIBLE INJURY	01 FRONT TO REAR
887566170	2018	12/26/18	1341	GULF TO BAY BLVD	KEENE RD S	0.039	W	1 NO INJURY	01 FRONT TO REAR
887556200	2018	09/30/18	1750	KEENE RD S	GULF TO BAY BLVD	0.028	S	1 NO INJURY	04 SIDESWIPE, SAME DIRECTION
887557950	2018	10/13/18	0000	GULF TO BAY BLVD	KEENE RD S	0		4 INCAPACITATING INJURY	03 ANGLE
875660610	2018	01/09/18	0243	GULF TO BAY BLVD	KEENE RD S	0		1 NO INJURY	03 ANGLE
887560790	2018	11/09/18	2035	GULF TO BAY BLVD	KEENE RD S	0		1 NO INJURY	04 SIDESWIPE, SAME DIRECTION
875664850	2018	02/15/18	1120	GULF TO BAY BLVD	KEENE RD S	0.007	E	1 NO INJURY	01 FRONT TO REAR
875666200	2018	02/26/18	1059	KEENE RD S	GULF TO BAY BLVD	0.003	N	1 NO INJURY	01 FRONT TO REAR
875661600	2018	01/17/18	1355	GULF TO BAY BLVD	KEENE RD S	0.009	E	1 NO INJURY	04 SIDESWIPE, SAME DIRECTION
875660830	2018	01/10/18	1017	GULF TO BAY BLVD	KEENE RD S	0.006	W	1 NO INJURY	01 FRONT TO REAR
878291420	2018	06/03/18	1400	GULF TO BAY BLVD	KEENE RD S	0		2 POSSIBLE INJURY	03 ANGLE
878287210	2018	04/30/18	2145	SR 60	WYE FROM CR 1	0		1 NO INJURY	00 NOT CODED
878287860	2018	05/06/18	0653	GULF TO BAY BLVD	KEENE RD S	0.019	E	1 NO INJURY	01 FRONT TO REAR
878302080	2018	08/28/18	1155	GULF TO BAY BLVD	KEENE RD S	0.008	W	1 NO INJURY	03 ANGLE
875664640	2018	02/13/18	1525	GULF TO BAY BLVD	KEENE RD S	0		03 ANGLE	03 ANGLE
875672610	2018	04/12/18	1153	GULF TO BAY BLVD	KEENE RD S	0.014	E	1 NO INJURY	03 ANGLE
878293430	2018	06/21/18	0713	GULF TO BAY BLVD	KEENE RD S	0		3 NO-INCAPACITATING INJURY	03 ANGLE
878289730	2018	05/20/18	1522	GULF TO BAY BLVD	KEENE RD S	0		1 NO INJURY	03 ANGLE
878298400	2018	08/01/18	1820	KEENE RD S	SR 60	0.005	S	2 POSSIBLE INJURY	00 NOT CODED
878304380	2018	09/18/18	1815	KEENE RD S	GULF TO BAY BLVD	0.038	S	1 NO INJURY	04 SIDESWIPE, SAME DIRECTION
875667860	2018	03/11/18	1329	KEENE RD S	GULF TO BAY BLVD	0.019	S	2 POSSIBLE INJURY	01 FRONT TO REAR
878302290	2018	08/31/18	1636	KEENE RD S	GULF TO BAY BLVD	0.002	N	2 POSSIBLE INJURY	01 FRONT TO REAR
887565920	2018	12/23/18	2020	GULF TO BAY BLVD	KEENE RD S	0		3 NO-INCAPACITATING INJURY	03 ANGLE
878288880	2018	05/12/18	2051	GULF TO BAY BLVD	KEENE RD S	0		1 NO INJURY	03 ANGLE
878291040	2018	05/30/18	1857	GULF TO BAY BLVD	KEENE RD S	0		3 NO-INCAPACITATING INJURY	03 ANGLE
888060510	2019	12/30/19	0911	KEENE RD S	GULF TO BAY BLVD	0.009	S	1 NO INJURY	01 FRONT TO REAR
887581840	2019	05/02/19	2054	KEENE RD S	GULF TO BAY BLVD	0.019	N	1 NO INJURY	03 ANGLE
892366790	2019	09/12/19	1908	GULF TO BAY BLVD	KEENE RD S	0		1 NO INJURY	03 ANGLE
892372320	2019	10/17/19	1725	KEENE RD S	GULF TO BAY BLVD	0.018	N	2 POSSIBLE INJURY	01 FRONT TO REAR
887579510	2019	04/13/19	2140	GULF TO BAY BLVD	KEENE RD S	0		4 INCAPACITATING INJURY	02 FRONT TO FRONT
887576830	2019	03/23/19	2017	GULF TO BAY BLVD	KEENE RD S	0.009	E	2 POSSIBLE INJURY	01 FRONT TO REAR
892373070	2019	10/20/19	1314	GULF TO BAY BLVD	KEENE RD S	0.007	E	2 POSSIBLE INJURY	01 FRONT TO REAR
892371860	2019	10/13/19	1610	KEENE RD S	GULF TO BAY BLVD	0.012	S	3 NO-INCAPACITATING INJURY	01 FRONT TO REAR
892358170	2019	06/04/19	1807	GULF TO BAY BLVD	KEENE RD S	0		1 NO INJURY	03 ANGLE
887582300	2019	05/03/19	0015	GULF TO BAY BLVD	KEENE RD S	0.009	E	1 NO INJURY	04 SIDESWIPE, SAME DIRECTION
887579410	2019	04/12/19	1230	KEENE RD S	GULF TO BAY BLVD	0.014	N	1 NO INJURY	01 FRONT TO REAR
887567090	2019	01/06/19	0553	KEENE RD S	GULF TO BAY BLVD	0.009	N	4 INCAPACITATING INJURY	03 ANGLE
892380020	2019	12/22/19	1428	KEENE RD S	GULF TO BAY BLVD	0.023	S	1 NO INJURY	04 SIDESWIPE, SAME DIRECTION
892378620	2019	12/15/19	1919	KEENE RD S	GULF TO BAY BLVD	0.019	S	1 NO INJURY	03 ANGLE
888060510	2019	12/30/19	0911	KEENE RD S	GULF TO BAY BLVD	0.009	S	1 NO INJURY	01 FRONT TO REAR
887581840	2019	05/02/19	2054	KEENE RD S	GULF TO BAY BLVD	0.019	N	1 NO INJURY	03 ANGLE
892366790	2019	09/12/19	1908	GULF TO BAY BLVD	KEENE RD S	0		1 NO INJURY	03 ANGLE
892372320	2019	10/17/19	1725	KEENE RD S	GULF TO BAY BLVD	0.018	N	2 POSSIBLE INJURY	01 FRONT TO REAR
887579510	2019	04/13/19	2140	GULF TO BAY BLVD	KEENE RD S	0		4 INCAPACITATING INJURY	02 FRONT TO FRONT
887576830	2019	03/23/19	2017	GULF TO BAY BLVD	KEENE RD S	0.009	E	2 POSSIBLE INJURY	01 FRONT TO REAR
892373070	2019	10/20/19	1314	GULF TO BAY BLVD	KEENE RD S	0.007	E	2 POSSIBLE INJURY	01 FRONT TO REAR
892371860	2019	10/13/19	1610	KEENE RD S	GULF TO BAY BLVD	0.012	S	3 NO-INCAPACITATING INJURY	01 FRONT TO REAR
892358170	2019	06/04/19	1807	GULF TO BAY BLVD	KEENE RD S	0		1 NO INJURY	03 ANGLE
887582300	2019	05/03/19	0015	GULF TO BAY BLVD	KEENE RD S	0.009	E	1 NO INJURY	04 SIDESWIPE, SAME DIRECTION
887579410	2019	04/12/19	1230	KEENE RD S	GULF TO BAY BLVD	0.014	N	1 NO INJURY	01 FRONT TO REAR
887567090	2019	01/06/19	0553	KEENE RD S	GULF TO BAY BLVD	0.009	N	4 INCAPACITATING INJURY	03 ANGLE
892380020	2019	12/22/19	1428	KEENE RD S	GULF TO BAY BLVD	0.023	S	1 NO INJURY	04 SIDESWIPE, SAME DIRECTION
892378620	2019	12/15/19	1919	KEENE RD S	GULF TO BAY BLVD	0.019	S	1 NO INJURY	03 ANGLE
888060510	2019	12/30/19	0911	KEENE RD S	GULF TO BAY BLVD	0.009	S	1 NO INJURY	01 FRONT TO REAR
887581840	2019	05/02/19	2054	KEENE RD S	GULF TO BAY BLVD	0.019	N	1 NO INJURY	03 ANGLE
892366790	2019	09/12/19	1908	GULF TO BAY BLVD	KEENE RD S	0		1 NO INJURY	03 ANGLE
892372320	2019	10/17/19	1725	KEENE RD S	GULF TO BAY BLVD	0.018	N	2 POSSIBLE INJURY	01 FRONT TO REAR
887579510	2019	04/13/19	2140	GULF TO BAY BLVD	KEENE RD S	0		4 INCAPACITATING INJURY	02 FRONT TO FRONT
887576830	2019	03/23/19	2017	GULF TO BAY BLVD	KEENE RD S	0.009	E	2 POSSIBLE INJURY	01 FRONT TO REAR
892373070	2019	10/20/19	1314	GULF TO BAY BLVD	KEENE RD S	0.007	E	2 POSSIBLE INJURY	01 FRONT TO REAR
892371860	2019	10/13/19	1610	KEENE RD S	GULF TO BAY BLVD	0.012	S	3 NO-INCAPACITATING INJURY	01 FRONT TO REAR
892358170	2019	06/04/19	1807	GULF TO BAY BLVD	KEENE RD S	0		1 NO INJURY	03 ANGLE
887582300	2019	05/03/19	0015	GULF TO BAY BLVD	KEENE RD S	0.009	E	1 NO INJURY	04 SIDESWIPE, SAME DIRECTION
887579410	2019	04/12/19	1230	KEENE RD S	GULF TO BAY BLVD	0.014	N	1 NO INJURY	01 FRONT TO REAR
887567090	2019	01/06/19	0553	KEENE RD S	GULF TO BAY BLVD	0.009	N	4 INCAPACITATING INJURY	03 ANGLE
892380020	2019	12/22/19	1428	KEENE RD S	GULF TO BAY BLVD	0.023	S	1 NO INJURY	04 SIDESWIPE, SAME DIRECTION
892378620	2019	12/15/19	1919	KEENE RD S	GULF TO BAY BLVD	0.019	S	1 NO INJURY	03 ANGLE
888060510	2019	12/30/19	0911	KEENE RD S	GULF TO BAY BLVD	0.009	S	1 NO INJURY	01 FRONT TO REAR
887581840	2019	05/02/19	2054	KEENE RD S	GULF TO BAY BLVD	0.019	N	1 NO INJURY	03 ANGLE
892366790	2019	09/12/19	1908	GULF TO BAY BLVD	KEENE RD S	0		1 NO INJURY	03 ANGLE
892372320	2019	10/17/19	1725	KEENE RD S	GULF TO BAY BLVD	0.018	N	2 POSSIBLE INJURY	01 FRONT TO REAR
887579510	2019	04/13/19	2140	GULF TO BAY BLVD	KEENE RD S	0		4 INCAPACITATING INJURY	02 FRONT TO FRONT
887576830	2019	03/23/19	2017	GULF TO BAY BLVD	KEENE RD S	0.009	E	2 POSSIBLE INJURY	01 FRONT TO REAR
892373070	2019	10/20/19	1314	GULF TO BAY BLVD	KEENE RD S	0.007	E	2 POSSIBLE INJURY	01 FRONT TO REAR
892371860	2019	10/13/19	1610	KEENE RD S	GULF TO BAY BLVD	0.012	S	3 NO-INCAPACITATING INJURY	01 FRONT TO REAR
892358170	2019	06/04/19	1807	GULF TO BAY BLVD	KEENE RD S	0		1 NO INJURY	03 ANGLE
887582300	2019	05/03/19	0015	GULF TO BAY BLVD	KEENE RD S	0.009	E	1 NO INJURY	04 SIDESWIPE, SAME DIRECTION
887579410	2019	04/12/19	1230	KEENE RD S	GULF TO BAY BLVD	0.014	N	1 NO INJURY	01 FRONT TO REAR
887567090	2019	01/06/19	0553	KEENE RD S	GULF TO BAY BLVD	0.009	N	4 INCAPACITATING INJURY	03 ANGLE
892380020	2019	12/22/19	1428	KEENE RD S	GULF TO BAY BLVD	0.023	S	1 NO INJURY	04 SIDESWIPE, SAME DIRECTION
892378620	2019	12/15/19	1919	KEENE RD S	GULF TO BAY BLVD	0.019	S	1 NO INJURY	03 ANGLE
888060510	2019	12/30/19	0911	KEENE RD S	GULF TO BAY BLVD	0.009	S	1 NO INJURY	01 FRONT TO REAR
887581840	2019	05/02/19	2054	KEENE RD S	GULF TO BAY BLVD	0.019	N	1 NO INJURY	03 ANGLE
892366790	2019	09/12/19	1908	GULF TO BAY BLVD	KEENE RD S	0		1 NO INJURY	03 ANGLE
892372320	2019	10/17/19	1725	KEENE RD S	GULF TO BAY BLVD	0.018	N	2 POSSIBLE INJURY	01 FRONT TO REAR
887579510	2019	04/13/19	2140	GULF TO BAY BLVD	KEENE RD S	0		4 INCAPACITATING INJURY	02 FRONT TO FRONT
887576830	2019	03/23/19	2017	GULF TO BAY BLVD	KEENE RD S	0.009	E	2 POSSIBLE INJURY	01 FRONT TO REAR
892373070	2019	10/20/19	1314	GULF TO BAY BLVD	KEENE RD S	0.007	E	2 POSSIBLE INJURY	01 FRONT TO REAR
892371860	2019	10/13/19	1610	KEENE RD S	GULF TO BAY BLVD	0.012	S	3 NO-INCAPACITATING INJURY	01 FRONT TO REAR
892358170	2019	06/04/19	1807	GULF TO BAY BLVD	KEENE RD S	0		1 NO INJURY	03 ANGLE
887582300	2019	05/03/19	0015	GULF TO BAY BLVD	KEENE RD S	0.009	E	1 NO INJURY	04 SIDESWIPE, SAME DIRECTION
887579410	2019	04/12/19	1230	KEENE RD S	GULF TO BAY BLVD	0.014	N	1 NO INJURY	01 FRONT TO REAR
887567090	2019	01/06/19	0553	KEENE RD S	GULF TO BAY BLVD	0.009	N	4 INCAPACITATING INJURY	03 ANGLE
892380020	2019	12/22/19	1428	KEENE RD S	GULF TO BAY BLVD	0.023	S	1 NO INJURY	04 SIDESWIPE, SAME DIRECTION
892378620	2019	12/15/19	1919	KEENE RD S	GULF TO BAY BLVD	0.019	S	1 NO INJURY	03 ANGLE
888060510	2019	12/30/19	0911	KEENE RD S	GULF TO BAY BLVD	0.009	S	1 NO INJURY	01 FRONT TO REAR
887581840	2019	05/02/19	2054	KEENE RD S	GULF TO BAY BLVD	0.019	N	1 NO INJURY	03 ANGLE
892366790	2019	09/12/19	1908	GULF TO BAY BLVD	KEENE RD S	0		1 NO INJURY	03 ANGLE
892372320	2019	10/17/19	1725	KEENE RD S	GULF TO BAY BLVD	0.018	N	2 POSSIBLE INJURY	01 FRONT TO REAR
887579510	2019	04/13/19	2140	GULF TO BAY BLVD	KEENE RD S	0		4 INCAPACITATING INJURY	02 FRONT TO FRONT
887576830	2019	03/23/19	2017	GULF TO BAY BLVD	KEENE RD S	0.009	E	2 POSSIBLE INJURY	01 FRONT TO REAR
892373070	2019	10/20/19	1314	GULF TO BAY BLVD	KEENE RD S	0.007	E	2 POSSIBLE INJURY	01 FRONT TO REAR
892371860	2019	10/13/19	1610	KEENE RD S	GULF TO BAY BLVD	0.012	S	3 NO-INCAPACITATING INJURY	01 FRONT TO REAR
892358170	2019	06/04/19	1807	GULF TO BAY BLVD	KEENE RD S	0		1 NO INJURY	03 ANGLE
887582300	2019	05/03/19	0015	GULF TO BAY BLVD	KEENE RD S	0.009	E	1 NO INJURY	04 SIDESWIPE, SAME DIRECTION
887579410	2019	04/12/19	1230	KEENE RD S	GULF TO BAY BLVD	0.014	N	1 NO INJURY	01 FRONT TO REAR
887567090	2019	01/06/19	0553	KEENE RD S	GULF TO BAY BLVD	0.009	N	4 INCAPACITATING INJURY	03 ANGLE
892380020	2019	12/22/19	1428	KEENE RD S	GULF TO BAY BLVD	0.023	S	1 NO INJURY	04 SIDESWIPE, SAME DIRECTION
892378620	2019	12/15/19	1919	KEENE RD S	GULF TO BAY BLVD	0.019	S	1 NO INJURY	03 ANGLE
888060510	2019	12/30/19	0911	KEENE RD S	GULF TO BAY BLVD	0.009	S	1 NO INJURY	01 FRONT TO REAR
887581840	2019	05/02/19	2054	KEENE RD S	GULF TO BAY BLVD	0.019	N	1 NO INJURY	03 ANGLE
892366790	2019	09/12/19	1908	GULF TO BAY BLVD	KEENE RD S	0		1 NO INJURY	03 ANGLE
892372320	2019	10/17/19	1725</						

FDOT Crash Number	Crash Year	Crash Date	Crash Time	On Roadway Name	Intersecting Roadway Name	Reference Distance (Miles)	Reference Direction	Highest Injury in Crash	Manner of Collision
899062110	2020	10/11/20	1000	KEENERD S	GULF TO BAY BLVD	0.019	N	1 NO INJURY	01 FRONT TO REAR
892383330	2020	01/18/20	1052	GULF TO BAY BLVD	KEENE RD S	0.04	W	3 NO-INCAPACITATING INJURY	03 ANGLE
892381710	2020	01/11/20	0612	KEENERD S	GULF TO BAY BLVD	0.003	S	3 NO-INCAPACITATING INJURY	00 NOT CODED
892386230	2020	02/18/20	1910	GULF TO BAY BLVD	KEENE RD S	0		3 NO-INCAPACITATING INJURY	03 ANGLE
892385550	2020	02/14/20	0952	GULF TO BAY BLVD	KEENE RD S	0.02	W	1 NO INJURY	04 SIDESWIPE, SAME DIRECTION
899061740	2020	10/10/20	2350	GULF TO BAY BLVD	KEENE RD S	0		1 NO INJURY	03 ANGLE
899046480	2020	03/31/20	1414	GULF TO BAY BLVD	KEENE RD S	0.004	E	1 NO INJURY	01 FRONT TO REAR
899060220	2020	09/14/20	1350	GULF TO BAY BLVD	KEENE RD S	0.015	E	1 NO INJURY	01 FRONT TO REAR
899066260	2020	11/24/20	2043	GULF TO BAY BLVD	KEENE RD S	0		1 NO INJURY	03 ANGLE
899053570	2020	07/06/20	1224	GULF TO BAY BLVD	KEENE RD S	0		2 POSSIBLE INJURY	03 ANGLE
899068970	2020	12/22/20	1425	GULF TO BAY BLVD	KEENE RD S	0.02	W	3 NO-INCAPACITATING INJURY	01 FRONT TO REAR
899053720	2020	07/06/20	2150	GULF TO BAY BLVD	KEENE RD S	0		2 POSSIBLE INJURY	02 FRONT TO FRONT
899059590	2020	09/14/20	2026	GULF TO BAY BLVD	KEENE RD S	0.039	W	1 NO INJURY	01 FRONT TO REAR
899061620	2020	10/07/20	0645	GULF TO BAY BLVD	KEENE RD S	0.011	W	1 NO INJURY	04 SIDESWIPE, SAME DIRECTION
899046170	2020	03/25/20	1105	KEENERD S	GULF TO BAY BLVD	0.036	N	3 NO-INCAPACITATING INJURY	01 FRONT TO REAR
899049820	2020	05/25/20	0902	GULF TO BAY BLVD	KEENE RD S	0.024	E	1 NO INJURY	01 FRONT TO REAR
899058250	2020	08/28/20	1614	GULF TO BAY BLVD	KEENE RD S	0.01	E	1 NO INJURY	03 ANGLE
899062740	2020	10/19/20	1755	GULF TO BAY BLVD	KEENE RD S	0.017	W	1 NO INJURY	01 FRONT TO REAR
899050420	2020	06/01/20	1254	GULF TO BAY BLVD	KEENE RD S	0		2 POSSIBLE INJURY	03 ANGLE
899053040	2020	10/04/20	2112	GULF TO BAY BLVD	KEENE RD S	0		5 FATAL(WITHIN 30 DAYS) INJURY	03 ANGLE
899063080	2020	10/22/20	1006	GULF TO BAY BLVD	KEENE RD S	0.009	E	1 NO INJURY	01 FRONT TO REAR
899055610	2020	11/18/20	0910	GULF TO BAY BLVD	KEENE RD S	0.017	E	3 NO-INCAPACITATING INJURY	01 FRONT TO REAR
243044920	2021	01/29/21	1829	GULF TO BAY BLVD	KEENE RD S	0.017	W	5 FATAL(WITHIN 30 DAYS) INJURY	00 NOT CODED
243052790	2021	04/01/21	2216	GULF TO BAY BLVD	KEENE RD S	0		4 INCAPACITATING INJURY	02 FRONT TO FRONT
247569570	2021	10/15/21	1430	GULF TO BAY BLVD	KEENE RD S	0.011	W	4 INCAPACITATING INJURY	77 OTHER (SEE NARRATIVE)
247563860	2022	02/28/22	1853	KEENERD S	GULF TO BAY BLVD	0.009	N	3 NO-INCAPACITATING INJURY	00 NOT CODED
875664620	2018	02/15/18	1241	GULF TO BAY BLVD	SATURN AVE	0.014	W	1 NO INJURY	04 SIDESWIPE, SAME DIRECTION
887590650	2019	04/22/19	1614	GULF TO BAY BLVD	SATURN AVE	0		1 NO INJURY	03 ANGLE
887563900	2019	05/17/19	0745	GULF TO BAY BLVD	SATURN AVE L	0.006	E	1 NO INJURY	04 SIDESWIPE, SAME DIRECTION
892389860	2019	09/29/19	1103	GULF TO BAY BLVD	SATURN AVE L	0.001	W	1 NO INJURY	04 SIDESWIPE, SAME DIRECTION
892384670	2020	02/07/20	2025	GULF TO BAY BLVD	PHOENIX AVE	0.057	E	3 NO-INCAPACITATING INJURY	03 ANGLE
899066180	2020	11/24/20	0910	GULF TO BAY BLVD	SATURN AVE L	0.011	E	1 NO INJURY	01 FRONT TO REAR
899051450	2020	06/11/20	0813	GULF TO BAY BLVD	MARS AVE S	0.011	E	2 POSSIBLE INJURY	01 FRONT TO REAR
899052810	2020	06/27/20	1145	GULF TO BAY BLVD	MARS AVE S	0.008	E	3 NO-INCAPACITATING INJURY	01 FRONT TO REAR
899067850	2020	12/13/20	1634	GULF TO BAY BLVD	PHOENIX AVE	0.019	E	1 NO INJURY	04 SIDESWIPE, SAME DIRECTION
875671960	2018	04/08/18	0445	SR 60	DUNCAN AVE S	0.007	E	2 POSSIBLE INJURY	01 FRONT TO REAR
887560020	2018	11/04/18	1219	GULF TO BAY BLVD	DUNCAN AVE	0		1 NO INJURY	03 ANGLE
887565460	2018	12/18/18	1400	GULF TO BAY BLVD	DUNCAN AVE S	0		1 NO INJURY	03 ANGLE
878294790	2018	07/01/18	1344	GULF TO BAY BLVD	DUNCAN AVE S	0		3 NO-INCAPACITATING INJURY	03 ANGLE
875688430	2018	03/15/18	0812	GULF TO BAY BLVD	DUNCAN AVE S	0.028	W	1 NO INJURY	01 FRONT TO REAR
875665570	2018	02/20/18	1920	SR 60	DUNCAN AVE S	0.006	E	1 NO INJURY	04 SIDESWIPE, SAME DIRECTION
878298620	2018	08/03/18	1123	DUNCAN AVE S	GULF TO BAY BLVD	0.001	S	1 NO INJURY	00 NOT CODED
878296790	2018	07/19/18	0001	SR 60	DUNCAN AVE S	0.006	E	1 NO INJURY	01 FRONT TO REAR
892377720	2019	12/07/19	0715	GULF TO BAY BLVD	DUNCAN AVE S	0.006	E	0 UNKNOWN/NOT CODED	00 NOT CODED
887571670	2019	02/13/19	1516	GULF TO BAY BLVD	DUNCAN AVE	0		1 NO INJURY	03 ANGLE
887579690	2019	04/15/19	0645	DUNCAN AVE S	GULF TO BAY BLVD	0.028	N	1 NO INJURY	00 NOT CODED
887568810	2019	12/31/18	0106	GULF TO BAY BLVD	DUNCAN AVE	0.028	W	1 NO INJURY	04 SIDESWIPE, SAME DIRECTION
892380450	2019	12/20/19	1900	GULF TO BAY BLVD	DUNCAN AVE	0.007	E	1 NO INJURY	04 SIDESWIPE, SAME DIRECTION
892364330	2019	08/05/19	1719	GULF TO BAY BLVD	DUNCAN AVE	0		1 NO INJURY	03 ANGLE
892388780	2019	09/01/19	1530	GULF TO BAY BLVD	DUNCAN AVE S	0		1 NO INJURY	03 ANGLE
887570010	2019	02/02/19	2140	DUNCAN AVE S	GULF TO BAY BLVD	0.01	N	1 NO INJURY	01 FRONT TO REAR
887581360	2019	04/28/19	0850	GULF TO BAY BLVD	DUNCAN AVE S	0		1 NO INJURY	03 ANGLE
892387860	2019	09/09/19	0744	GULF TO BAY BLVD	PLUMOSA AVE	0.114	W	1 NO INJURY	04 SIDESWIPE, SAME DIRECTION
888074440	2020	08/12/20	0124	GULF TO BAY BLVD	DUNCAN AVE S	0.002	E	3 NO-INCAPACITATING INJURY	00 NOT CODED
892385710	2020	02/15/20	1154	GULF TO BAY BLVD	DUNCAN AVE S	0		2 POSSIBLE INJURY	03 ANGLE
899055590	2020	07/22/20	1833	GULF TO BAY BLVD	DUNCAN AVE S	0		2 POSSIBLE INJURY	03 ANGLE
899050900	2020	06/05/20	1313	GULF TO BAY BLVD	DUNCAN AVE S	0.009	E	1 NO INJURY	01 FRONT TO REAR
899059290	2020	09/11/20	0740	GULF TO BAY BLVD	DUNCAN AVE	0		1 NO INJURY	03 ANGLE
243049150	2021	03/09/21	0926	GULF TO BAY BLVD	DUNCAN AVE S	0		4 INCAPACITATING INJURY	03 ANGLE



4904 Eisenhower Boulevard
Suite 350
Tampa, FL 33634
727. 789. 9500

WWS25005

July 9, 2026

City of Clearwater
100 South Myrtle Ave
Clearwater, Florida 33758

RE: Woodie's @ 407 S Saturn Ave
Case Number: FLD2026-02005
2nd Review Comment Response Letter (July 2nd DRC meeting)
WWS25005

The following are the response comments for the above-mentioned project. Our response comments are in **bold**.

Engineering Services

Raymond Dresch - raymond.dresch@myclearwater.com – 727.444.8775

INGRESS/EGRESS (305 SATURN AVE):

1. Please provide record of any ingress/egress easement of agreement thereof authorizing use of parcel 14-29-15-82566-003-0030 granted to the property located at 305 Saturn Ave providing rear access to a rear detached garage constructed in 1988 (BCP1988-11476).

If no such easement or agreement currently exists and access is intended to be retained and granted for future use, a new ingress/egress easement will need to be recorded.

Note: A gap or break in the wall would presumably have negative impact to the intended noise abatement/mitigation that the wall is intended to provide to the adjoining residential area and therefore alternatives should be considered. In your review of alternatives, be advised that a minimum of 10-ft clear width is generally required for side driveway access to rear garages.

AVID / McAdams Response: This is not an existing ingress/egress easement. Woodie's intent is to record the access easement concurrently with the other instruments associated with this development, unless the City requires the easement to be recorded earlier. These instruments include, but may not be limited to, the Declaration of Unity of Title (associated with the lot split creating the two new parcels), the access easement benefiting 305 Saturn Ave, and various utility and cross access easements serving the two new parcels.

The sound study has been revised to reflect the latest site plan and it now includes the screening fence/wall and gate, which were not even evaluated as part of the original mitigation measures.

WEST SIDEWALK:

2. West property sidewalk is identified for demolition on sheet C1.0 and therefore a new sidewalk shall be constructed, typically 1-ft from the property line within the ROW, in accordance with City Design Standards.

AVID / McAdams Response: Sheet C2.00 (site plan) has been revised to depict and label the required 1' offset between the sidewalk and property line along both the Saturn Ave and Mars Ave rights-of-way. In addition, the city's standard detail illustrating the offset requirement has been included on Sheet C6.03 (site details).

Land Resource Services

Robert Robicheau - robert.robicheau@myclearwater.com – 727.444.7961

INCHES SPREADSHEET:

3. Please include proposed trees to be installed, as well as trees to be removed, on a single spreadsheet.

AVID / McAdams Response: Sheet TPP.1 (tree protection plan) has been revised to combine this information into one spreadsheet.

SHELL:

4. Shell still indicated on the plan and in the legend.

AVID / McAdams Response: Shell is no longer proposed. The landscape plan (Sheet LS.1) has been revised to depict sod within these areas.

Planning Services

Austen Dole – Austen.dole@myclearwater.com – 727.444.7351

LANDSCAPING:

5. Shell is not a permitted material and must be removed from the plans. Please revise the drawings accordingly to reflect an approved material.

AVID / McAdams Response: Shell is no longer proposed. The landscape plan (Sheet LS.1) has been revised to depict sod within these areas.

SCREENING:

6. Please provide a detail or example of the proposed screening fence/wall, including its height, materials, and finish.

AVID / McAdams Response: The fence specifications sheet is attached. Sheets C2.00 (site plan) and LS.1 (landscape plan) have been revised to identify the proposed north perimeter fence as a "6' high screening fence/wall (design by others)" and the location of the "10' wide access opaque gate to adjacent property" at will provide vehicular access to the rear detached garage on the adjacent property at 305 Saturn Avenue.

SIGNAGE:

7. Signage is still shown on Architectural Plans.

AVID / McAdams Response: All signage has been removed from the architectural plans.

SIGNAGE AND ROOFLINE/PARAPHET:

8. Pursuant to CDC Section 3-1807(B), "All signs must be architecturally integrated into the design of the building and/or site using similar and coordinated design and style features, materials, and colors. Attached signs shall be horizontally and vertically proportionately located on each façade, with no protrusions above the roofline."

Signage is not under review as part of this application and will require separate review and approval under a future sign permit. However, the submitted building elevations depict the proposed Woodie's signage, architectural parapet, and associated lighting elements extending above the roofline. Revise the plans to demonstrate compliance with this section by ensuring that the architectural parapet and any depicted sign or lighting projections do not protrude above the roofline, or remove the unreviewed signage elements from the elevations.

If the depicted signage is intended to illustrate a future sign location, provide a statement acknowledging that the location shown is conceptual only, does not constitute approval of future signage, and that all future signs must be reviewed for compliance with the Community Development Code as part of a separate sign permit application.

AVID / McAdams Response: All signage has been removed from the architectural plans.

WALKWAY:

9. Please clarify width of sidewalk/walkway adjacent to eastern parcel.

AVID / McAdams Response: The proposed sidewalk within the Mars Ave right-of-way is 5' in width. Sheet C2.00 (site plan) has been revised to include sidewalk labels and dimensions identifying the proposed 5' sidewalk width and 1' offset from the property line.

Solid Waste

Brandi Portalatin – brandi.portalatin@myclearwater.com – 727.562.4920

10. Sheet 7 vehicle template. It would be safer for the business and solid waste team to exit to the west towards Saturn. No 3 point turn is necessary.

Enclosure must meet the city's code standards. Please use sec. 32.284 waste receptacle (6), engineering index 701 for the enclosure specs. (double enclosure)

AVID / McAdams Response: Sheet C7.00 (vehicle routing) has been revised to depict the truck exiting onto Saturn Ave.

Sheets C2.00 (site plan) and C6.05 (utility details) have been revised to reflect that the proposed double dumpster enclosure shall comply with and/or exceed City of Clearwater standard specifications.

As discussed at the DRC meeting, the enclosure design will also include an approximately-6' wide side storage enclosure. The dumpster enclosure and associated storage enclosure will be designed and permitted by the project architect.

Traffic Engineering

Raymond Dresch – raymond.dresch@myclearwater.com – 727.444.8775

SIGHT VISIBILITY TRIANGLES:

11. SVTs missing from SE and SW corner and along both sides of the East driveway.

AVID / McAdams Response: Sight visibility triangles have been added to Sheets C2.00 (site plan) and LS.1 (landscape plan).

12. SVTs missing from SW and SE corners.

AVID / McAdams Response: Sight visibility triangles have been added to Sheets C2.00 (site plan) and LS.1 (landscape plan).

Consideration of this response is greatly appreciated. If you should have any questions or require additional information, please do not hesitate to contact me at 727.789.9500, ext. 181 (office) or 727.234.8015 (cell).

Sincerely,

AVID / McAdams



Peter Pensa, AICP | Director, Planning + Entitlement
ppensa@mcadamsco.com | 727.789.9500 (o) | 727.234.8015 (c)

PP/ts



4904 Eisenhower Boulevard
Suite 350
Tampa, FL 33634
727. 789. 9500

WWS25005.00

Letter of Authorization

To Whom It May Concern:

This letter does hereby authorize The John R. McAdams Company, Inc; DBA AVID / McAdams and WWS Contracting, LLC to act as our agent(s) for and with all regulatory agencies, departments, and their personnel for the City of Clearwater, Pinellas County, Florida Department of Economic Opportunity, Florida Department of Transportation, Southwest Florida Water Management District, Florida Department of Environmental Protection, US Army Corps of Engineers, and any other regulatory agencies or utility providers in an effort to receive all approvals necessary for permitting and developing the proposed commercial redevelopment project on an approximately 2.30 acres, m.o.l. tract that is generally located on the northeast corner of Gulf-To-Bay Boulevard and Saturn Avenue in the City of Clearwater, Pinellas County, Florida. In addition, I authorize the above-listed agent(s) to bind me, or my corporation, to perform any requirements which may be necessary to procure these permits or authorizations.

PARCEL ID NUMBER(S):	SITE ACREAGE	STREET ADDRESS (IF ASSIGNED):
14-29-15-00000-140-1900, 14-29-15-84566-003-0030, 13-29-15-82584-001-0040	2.30 Acres, m.o.l.	407 S Saturn Avenue Clearwater, FL 33755

Property Owner:

Signature: JoDee Hub

Name: JoDee Hub

Title: President

St. Paul's Evangelical Lutheran Church of Clearwater (per deed)

St. Paul's Lutheran Church, Incorporated, a Florida Not For Profit Corporation (per Sunbiz)

PO Box 4667

Clearwater, FL 33758-4667

STATE OF Florida

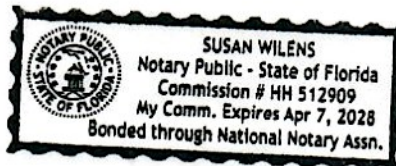
COUNTY OF Pinellas

On this the 27th day of February 2026 before me, the undersigned Notary Public of the State of Florida, personally appeared JoDee Hub and whose name(s) is/are subscribed to the within instrument, and acknowledge that he/she/they executed it. The individual(s) are personally known to me, or presented the following identification: Drivers License.

WITNESS MY HAND AND SEAL:

NOTARY SEAL + COMMISSION EXPIRATION:

Susan Wilens
NOTARY SIGNATURE





4904 Eisenhower Boulevard
Suite 350
Tampa, FL 33634
727. 789. 9500

WWS25005

May 15, 2026

City of Clearwater
100 South Myrtle Ave
Clearwater, Florida 33758

**RE: Woodie's @ 407 S Saturn Ave
Case Number: FLD2026-02005
1st Review Comment Response Letter
WWS25005**

The following are the response comments for the above-mentioned project. Our response comments are in **bold**.

Engineering Services

Raymond Dresch - raymond.dresch@myclearwater.com – 727.444.8775

GENERAL COMMENTS:

1. Written Acknowledgement of all Engineering (including Stormwater, Traffic, Utilities and Environmental) conditions/comments is required.

AVID / McAdams Response: Acknowledged. Responses to all conditions/comments are provided herein.

2. Plans submitted have been reviewed for general engineering criteria only, additional comments (including Stormwater, Traffic, Utilities and Environmental) may be forthcoming upon submittal of a Building Permit Application.

AVID / McAdams Response: Acknowledged. Informational comment, no additional response required at this time.

3. Applicant shall be responsible for maintaining all landscaping, irrigation, hardscaping, and lighting located within Right of Way.

AVID / McAdams Response: Acknowledged. Please note that none of these improvements are being proposed. Only public sidewalks, sidewalk & driveway connections, and utility connections are proposed within the right-of-way.

4. Work on right-of-way shall require a permit with the appropriate jurisdiction.

AVID / McAdams Response: Acknowledged. Permits will be obtained from the City of Clearwater and FDOT as appropriate.

5. Per Sec. 47.181, bring all sidewalks and ramps adjacent to or as part of the project up to Standards, including ADA.

AVID / McAdams Response: Acknowledged. Sheet C2.00 (site plan) depicts the 5' sidewalks and ramps to be constructed on Saturn Ave and Mars Ave, and the widening to 6' sidewalk on Gulf-to-Bay Blvd. Sheet C6.03 (site details) contains the City's typical details for these improvements.

6. Contractor shall request an easement inspection prior to any construction near an easement.

AVID / McAdams Response: Acknowledged. This requirement has been added as Utility Note #14 on Sheet C5.00 (utility plan).

7. Vacation/Establishment of easements will need to be completed prior to C of O.

AVID / McAdams Response: Acknowledged. There is a 3' utility easement within the property that will be partially vacated. That portion of the sanitary sewer main that was serving the church will be removed as it is no longer needed. The proposed sewer main demolition and easement vacation area are depicted on Sheets C1.00 (demo plan) and C5.00 (utility plan).

8. If the proposed project necessitates infrastructure modifications to satisfy the site-specific water capacity and pressure requirements and/or wastewater capacity requirements, the modifications shall be completed by the applicant and at their expense. If underground water mains and hydrants are to be installed, the installation shall be completed and in service prior to construction in accordance with Fire Department requirements.

AVID / McAdams Response: Acknowledged. Please note that no new fire hydrants are proposed. The existing fire hydrant on the Gulf-to-Bay Blvd frontage will remain and serve the development. Its location is depicted with a red symbol and a call-out on Sheets C1.00 (demo plan) and C5.00 (utility plan).

Environmental Services

Sarah Kessler - sarah.kessler@myclearwater.com – 727.444.8233

9. Provide erosion control measures on plan sheet and provide notes detailing erosion control methods. Note: all silt fencing and other erosion control measures will be installed prior to the commencement of site work and maintained throughout the project.

AVID / McAdams Response: Acknowledged. This information has been added to the plans. See Sheets C1.01 (stormwater pollution prevention plan) and C6.00 & C6.01 (NPDES details).

Land Resource Services

Robert Robicheau - robert.robicheau@myclearwater.com – 727.444.7961

INCHES SPREADSHEET:

10. Please provide a spread sheet expressing the total number of trees to be removed, calculating the DBH (diameter at breast height) of all trees being removed with a rating of 3 and above and the total proposed inches. Note: palm trees with 10 feet of clear trunk receive a 1-inch deficit if removed and a 1-inch credit if proposed and accent trees receive a 2-inch deficit if removed and a 2-inch credit if proposed. Specimen palms (phoenix species) receive a 2.5-inch deficit if removed and a 2.5-inch credit is proposed. All shade trees receive a deficit based on the total DBH if removed and a credit based on the caliper size if planted. If a deficit exists, then it must be paid to the Tree Fund at a rate of 48 dollars and inch

AVID / McAdams Response: The requested spreadsheet is on the Tree Protection Plan, Sheet TPP.1

SHELL:

11. Please remove all shell from the landscape. Shell is not an acceptable landscape material. CDC 3-1204.B.

AVID / McAdams Response: Acknowledged, shell is no longer proposed in areas with landscape.

SPECIES SELECTION:

12. Please swap the orange geiger tree from the landscape plan for another tree species.

AVID / McAdams Response: Geiger Tree has been replaced.

TREE REQUIREMENTS:

13. Per CDC Section 3-1202, palm trees may count toward required trees at a maximum of 25% of the total required trees. Accent trees may be substituted at a rate of two (2) accent trees per one (1) shade tree; however, no more than 25% of the total required trees may be accent trees, unless overhead utility lines make compliance impractical.

AVID / McAdams Response: Acknowledged. Palms and Accent trees do not exceed 25% each of the total Tree requirement for the site.

Planning Services

Austen Dole – Austen.dole@myclearwater.com – 727.444.7351

GENERAL COMMENTS:

14. Description:
Please note that additional comments may be generated at or after the Development Review Committee (DRC) meeting based on responses to DRC comments. Substantial redesign or unresolved issues will delay the ability to receive a Development Order and another DRC meeting may be required.

AVID / McAdams Response: Acknowledged. Informational comment, no additional response required at this time.

15. All plans and supporting documents must match. Additionally, any changes to plans, elevations, and other supporting documents must be coordinated for consistency across all documentation to move forward.

AVID / McAdams Response: Acknowledged. The plans and supporting documents have been updated accordingly for consistency.

In addition to the revisions for consistency and response to these comments, please note that the application has been updated to request review as a Level Two Comprehensive Infill Redevelopment Project in order to establish a maximum building height that is greater than 25' for the proposed Limited Vehicle Service (car wash) use. As discussed in more detail within the CIRP review criteria and as depicted on the revised building elevations, we are proposing a tower roof peak height of 35'-0", with a tower eave height of 28'-8", and a lower eave height of 26'-8".

16. Pursuant to Fla. Stat. § 166.033, "Within 120 days after the municipality has deemed the application complete, or 180 days for applications that require final action through a quasi-judicial hearing or a public hearing, the municipality must approve, approve with conditions, or deny the application for a development permit or development order. Both parties may agree to a reasonable request for an extension of time, particularly in the event of a force majeure or other extraordinary circumstance."

AVID / McAdams Response: Acknowledged. As discussed and agreed upon at the April 2nd DRC meeting, the Applicant voluntarily requested an extension to the May 15th resubmittal deadline (for the June 16th CDB hearing date) to ensure there would be adequate time for the project team to address these comments and give city staff time for review the additional information prior to the CDB hearing.

17. Revised applications that are not timely resubmitted to address DRC conditions, or for which a request for an extension of time is not received and agreed upon in a timeframe consistent with Florida Statutes, may be denied.

AVID / McAdams Response: Acknowledged. The Applicant is committed to working with the DRC and advancing the project forward in a positive and timely manner.

18. In order to be reviewed by the Community Development Board (CDB) on May 19, 2026, electronic copies of all updated materials must be submitted no later than 12:00pm on April 10, 2026.

AVID / McAdams Response: As discussed in Response #16, it was agreed upon to resubmit by May 15th with the intention of being scheduled for the June 16th CDB hearing date.

BUSINESS OPERATIONS:

19. Please provide additional detail and clarification regarding the proposed car wash facility, including its overall business operations and hours of operation.

AVID / McAdams Response: The following describes the Woodie's Wash Shack business operations:

ABOUT US

Woodie's Wash Shack is a local, family-owned express car wash that started in 2019 and has since grown to over 15 locations! But we are more than just a car wash. We turn the mundane task of washing your car into a true experience of relaxation!

We are the highest and most Google reviewed car wash in the state of Florida and are proud to be the Official Car Wash of the Tampa Bay Buccaneers.

But don't take our word for it – we let our awards do the talking!

HOURS OF OPERATION

- **Monday- Saturday: 7:30AM - 7:30PM**
- **Sunday: 8:30AM - 7:30PM**

SOUND IMPACTS

The Woodie's Wash Shack site has been designed to minimize sound impacts on adjacent residential properties. The car wash tunnel includes integrated acoustical treatments, and all blowers are equipped with silencers to significantly reduce operational sound. Additional detail is provided in the attached Sound Study Report.

To further mitigate impacts, a screening wall is proposed to buffer vehicle activity and limit visibility of queued traffic. Also, our design includes a construction barrier wall along the north property line, that will provide additional privacy, visual screening, and sound attenuation for neighboring residences.

20. In addition, please address potential noise impacts associated with car wash equipment, vacuum stations, and vehicle activity. Clearly identify the measures that will be implemented to buffer and mitigate noise impacts on adjacent residential properties, including but not limited to physical barriers, landscaping, building orientation, and operational limitations.

AVID / McAdams Response: See the attached “Woodie's Wash Shack - Car Wash Facility Sound Study and Sound Control Design” report prepared by Brooks Acoustics Corporation, dated May 14, 2026. In summary, the report found that with Woodie's proposed enhanced sound-mitigation measures, the car wash facility's sound levels will be lower than the background noise being generated by regular road traffic activity along Gulf-to-Bay Boulevard and S Keene Road.

The north boundary landscape buffer includes a 6-foot-high wall, in addition to the Code-required landscaping, to improve visual screening and provide additional sound attenuation for the abutting parcels.

LANDSCAPING:

21. Per CDC Section LS.1 provide landscape buffer details for east side of property.

AVID / McAdams Response: The landscape buffers have been extended to include the east side of the property.

22. Please remove any proposed shell or rock from proposed landscaping and replace for a different ground cover/landscape material.

AVID / McAdams Response: Mulch and Sod are proposed for all landscape areas. Shell is proposed for all hardscape areas.

LOT CONFIGURATION:

23. Please clarify and confirm the proposal for merging the three lots and subsequently re-dividing them to accommodate the car wash. make sure to provide detail on setbacks and the eastern parcel in particular.

AVID / McAdams Response: It is our understanding from the October 22, 2025 BDRC pre-application meeting that the lot split would go through Minor Lot Line Adjustment Application review, followed by recording of a Declaration of Unity of Title for the two new parcels.

The parcel dimensions for both parcels have been added to Sheet C2.00 (site plan).

Setback requirements for the eastern parcel would be dependent upon the proposed use and level of review that is proposed at time of development, so they could change in the future. However, for these purposes we have added the typical setbacks allowed for Level One permitted uses of 25' min front & side street (S & E), 10' min side (W), and 10' min rear (N) to Sheet C2.00 (site plan) for illustrative purposes.

NOISE STUDY:

24. A noise study needs to be provided to evaluate the potential impact of the car wash's operations, including, but not limited to, the vacuums, and associated noise on surrounding residential areas.

AVID / McAdams Response: See the attached "Woodie's Wash Shack - Car Wash Facility Sound Study and Sound Control Design" report prepared by Brooks Acoustics Corporation, dated May 14, 2026. In summary, the report found that with Woodie's proposed enhanced sound-mitigation measures, the car wash facility's sound levels will be lower than the background noise being generated by regular road traffic activity along Gulf-to-Bay Boulevard and S Keene Road.

SCREENING:

25. Please confirm screening and buffering methods.

AVID / McAdams Response: Calculations and plant material are provided for all required buffers.

SIGNAGE:

26. Please remove any proposed signage from plans. Signage will require its own permitting process.

AVID / McAdams Response: Acknowledged. The signage has been removed from all plan sheets.

TREES:

27. Per CDC Section 3-1202, palm trees may count toward required trees at a maximum of 25% of the total required trees. Accent trees may be substituted at a rate of two (2) accent trees per one (1) shade tree; however, no more than 25% of the total required trees may be accent trees, unless overhead utility lines make compliance impractical.

AVID / McAdams Response: Acknowledged. Palms and Accent trees do not exceed 25% each of the total Tree requirement for the site.

WALKWAY:

28. Please clarify width of sidewalk/walkway adjacent to eastern parcel.

AVID / McAdams Response: The proposed sidewalk within the Mars Ave right-of-way is 5' wide.

Public Utilities

Michael Vacca – michael.vacca@myclearwater.com – 727.265.1831

PRIOR TO PERMITTING

Call out and Acknowledge

29. Call out and show on the drawings the proposed 4 inch potable water service on Gulf to Bay Blvd. does not exist. If connection location is to remain on the Gulf to Bay Blvd. side, Acknowledge and clearly note on the plans that the contractor will be responsible for attaining all FDOT right away permits and completing all restoration requirements in accordance with FDOT standards after city makes the necessary water taps. It is recommended to evaluate relocating the water service line from Gulf to Bay to Saturn Ave. side to avoid FDOT right away impacts and potential delays with permitting.

AVID / McAdams Response: Sheet C5.00 (utility plan) has been revised to show the proposed point of connection is the 6" PVC water main located on the west side of Saturn Ave (across from the southwest corner of the site). This point of connection will serve both parcels as shown on the plan.

30. Call out and show on the drawings the locations of the potable water meter, including the meter and backflow assembly size and piping material.

AVID / McAdams Response: Sheet C5.00 (utility plan) has been revised to show this information. Separate 2" meter & backflow preventers are proposed for both parcels. They will be located at the southwest corner of the site as shown on the plan.

31. Acknowledge and verify that the fire department may have additional requirements including additional fire hydrants for the project. These items must be shown on the drawings with the associated sizes and materials along with locations.

AVID / McAdams Response: Acknowledged. Please note that the existing fire hydrant on the Gulf-to-Bay Blvd frontage will remain and serve the development. Its location is depicted with a red symbol and a call-out on Sheets C1.00 (demo plan) and C5.00 (utility plan).

SANITARY SEWER

32. Call out and show on the drawings coordinate with Public Utilities for the city of Clearwater GIS Atlas page. The existing 8 inch VCP sewer main is located through the center of the property and associated manholes must be addressed (removal?) and shown on drawings.

AVID / McAdams Response: Acknowledged. As discussed in Response #7 above, there is a 3' utility easement within the property that will be partially vacated. That portion of the sanitary sewer main that was serving the church will be removed as it is no longer needed. The proposed sewer main demolition, easement vacation area, and new construction are depicted on Sheets C1.00 (demo plan) and C5.00 (utility plan).

33. Call out and show on the drawings that all existing sanitary sewer pipes, laterals and manholes within the property are to be removed at the contractor's expense, with connections made to the newly proposed manhole location.

AVID / McAdams Response: Acknowledged. The proposed sewer main demolition is depicted on Sheet C1.00 (demo plan). This requirement has been added as a note on Sheet C1.00 (demolition plan).

34. Call out and show on drawings that all sanitary sewer infrastructure located within the property shall be identified as privately owned and maintained by others.

AVID / McAdams Response: Acknowledged. Sheet C5.00 has been revised to note that the on-site sanitary sewer system will be privately owned and maintained, except for the manhole and sewer main within the remaining 3' utility easement (the portion that will not be vacated). That portion will remain public because it also serves the multi-family parcel at 308/310/312 S. Mars Ave (Parcel ID 13-29-15-82584-001-0030).

35. Call out and show on drawing proposed sanitary sewer manholes shall be constructed in accordance with city standards and details

AVID / McAdams Response: Acknowledged. The City's standard details have been added to Sheet C6.04 (utility details).

Solid Waste

Brandi Portalatin – brandi.portalatin@myclearwater.com – 727.562.4920

36. The dumpster enclosure is not in a location that solid waste can access.

AVID / McAdams Response: See Sheet C2.00 (site plan) for the revised dumpster enclosure location. At city staff's request, it has been revised to provide a co-located double enclosure to serve both parcels (one dumpster for each parcel). The enclosure is directly aligned with the east/west drive aisle for direct access coming from Mars Ave.

37. The vehicle used for the template is not the vehicle that will be providing service. Its called a front end loader.

AVID / McAdams Response: Acknowledged. Sheet 7.00 (vehicle routing) has been revised accordingly.

38. Solid waste will not back out a driveway that long against traffic coming in to get out.

AVID / McAdams Response: Acknowledged. As depicted on the vehicle tracking exhibit, the new double enclosure location (serving both parcels) has been located for convenient access and the ability to make a 3-point turn to return back to Mars Ave as was requested by Solid Waste staff at the BDRC pre-application meeting and discussed at the DRC meeting.

39. The city enclosure specs need to be added to the plans. This can be found in Sec.32.284

AVID / McAdams Response: An alternative dumpster enclosure detail is proposed to meet the needs of both the City and their business. The dumpster enclosure detail has been added to Sheet C6.05 (utility details).

Stormwater

Viktoriya Poniava – viktoriya.poniava@myclearwater.com

40. DRC review is a prerequisite for Building Permit review. A comprehensive review of the site design, including stormwater, has not been completed at this time; additional comments may be generated upon submittal of a Building Permit application.

AVID / McAdams Response: Acknowledged. Informational comment, no additional response required at this time.

41. An approved SWFWMD Environmental Resource Permit (ERP), or exemption, shall be provided prior to issuance of a Certificate of Occupancy (CO).

AVID / McAdams Response: Acknowledged. Informational comment, no additional response required at this time.

Traffic Engineering

Raymond Dresch – raymond.dresch@myclearwater.com – 727.444.8775

PLACEMENT:

42. Modify dumpster enclosure placement to align with roadway to reduce maneuver conflicts. From a Traffic perspective, preferred movement would be through the site with exit onto Saturn Ave.

***Solid Waste may provide additional guidance.

AVID / McAdams Response: See Responses # 36-38. Solid Waste has provided their preferred location for a co-located dumpster enclosure to serve both parcels, and they want the truck to exit back onto Mars Ave so it can continue north on their pick-up route.

SIGHT VISIBILITY TRIANGLES:

43. Please add 20' Sight Visibility Triangles (Section 3-904) to the plan along both sides of each driveway at the front property line (not the edge of the street) and at the property line corner for parcels with double frontages (corner lot). No structure or landscaping may be present or installed which will obstruct views at a level between 30" and 8' above grade within the SVT. Link: https://library.municode.com/fl/clearwater/codes/community_development_code?nodeId=PTICODECO_ART3DEST_DIV9GEAPST_S3-904SIVITR

AVID / McAdams Response: Sight visibility triangles have been added to Sheets C2.00 (site plan) and LS.1 (landscape plan).

44. See note on Landscape plan -- add SVTs to site plan

AVID / McAdams Response: SVT are shown on the Landscape Plan.

MULTIMODAL IMPACT FEE:

45. PCPAO reports a total of 24,081 living SF. Data table reflects 19,870 SF (assumed gross). Based on either SF, the MIF is offset by the available credit and an estimated zero fee would be assessed.

AVID / McAdams Response: Acknowledged. Informational comment, no additional response required at this time.

Consideration of this response is greatly appreciated. If you should have any questions or require additional information, please do not hesitate to contact me at 727.789.9500, ext. 181 (office) or 727.234.8015 (cell).

Sincerely,

AVID / McAdams



Peter Pensa, AICP | Director, Planning + Entitlement
ppensa@mcadamsco.com | 727.789.9500 (o) | 727.234.8015 (c)

PP/ts

ARBORIST'S REPORT

Tree Inventory and Assessment

PROJECT LOCATION

407 S Saturn Avenue

Clearwater, FL

City of Clearwater, Pinellas County, Florida

Zoning: CG (Commercial General)

Total Project Area: 2.28± Acres (Parcel A: 1.47 Ac | Parcel B: 0.81 Ac)

Prepared for:

Avid/McAdams

In Association with Woodies Wash Shack

Attn: Joe Morton, Project Manager

jmorton@woodieswash.com | (941) 451-0748

Prepared by:

Matthew Shinn

ISA Board Certified Arborist

Certification No: [FL-6258A

Landscape Workshop, LLC

5570 Ulmerton Rd.

Clearwater, FL 33760

January 2026

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Exhibits:

- A - Tree Locator Map
- B - Concept Plan D (McAdams)
- C - Tree Inventory Summary Table
- D - Tree Condition Evaluation Forms
- E - Photo Documentation

1.0 INTRODUCTION

Matthew Shinn/Landscape Workshop was retained by Strathmore Real Estate Group / AVID Group on 1-29-2026 to perform a Tree Inventory and Assessment for the proposed Woodies Wash Shack car wash and Quick Service Restaurant (QSR) development located at 407 S Saturn Avenue, Clearwater, FL in the City of Clearwater, Pinellas County, Florida.

The purpose of this evaluation is to comply with the City of Clearwater Community Development Code, Article 3, Division 12 - Landscaping/Tree Protection (Sec. 3-1205). This report identifies all protected trees on the subject property, documents their species, size, condition, and location, and provides recommendations for tree preservation and replacement during construction.

This Arborist's Report is a Level 2, Basic Assessment, and includes findings that I believe are accurate based on my education, experience, and knowledge in the field of Arboriculture. I have no interest personally or financially in this property and my report is factual and unbiased.

Note: As stated in the Concept Plan notes, no jurisdictional delineation or arborist assessment was previously conducted. The presence and extent of wetlands, streams, or protected/grand trees was unknown prior to this assessment.

2.0 SITE CHARACTERISTICS

2.1 Property Information

- Address: 407 S Saturn Avenue, Clearwater, FL
- Jurisdiction: City of Clearwater, Pinellas County, Florida
- Current Zoning: CG (Commercial General)
- Future Land Use: C (Commercial)
- Total Project Area: 2.28± Acres
- Parcel A: 1.47± Acres
- Parcel B: 0.81± Acres

2.2 Location and Boundaries

The subject property is located at the intersection of State Road 60, S Saturn Avenue, Mars Avenue, and S Keene Road in Clearwater. The site is bounded by:

- North: Rainbow Drive
- South: State Road 60 (Gulf to Bay Boulevard)
- East: S Keene Road and Mars Avenue
- West: Saturn Avenue and adjacent commercial properties

2.3 Current Site Conditions

Based on aerial imagery and the Concept Plan, the site appears to contain previously developed commercial property with existing structures, parking areas, landscaping, etc.. Existing vegetation appears to include Hardwood trees and minimal shrubbery.

2.4 Setbacks and Buffer Requirements

Per the Concept Plan, the following setback and buffer requirements apply:

- Front Setback (State Road 60): 15' minimum / 25' maximum
- Side Setbacks: 10' minimum / 20' maximum
- Buffer Requirements: 10' buffer (sides) / 15' buffer (rear) 15' Buffer (front)

3.0 PROPOSED DEVELOPMENT

The proposed development (Concept Plan D, dated 10-06-25, prepared by McAdams) includes:

3.1 Building Program

- Car Wash Building: 9,350± SF
- Building Extension (Detail Tunnel): 3,888± SF
- Quick Service Restaurant (QSR): 1,025 SF
- Wash Tunnel and Detail Tunnel facilities
- Bug Prep Station
- Dumpster Enclosure

3.2 Site Improvements

- 23 Vacuum Spaces (3 banks of vacuum stations)
- 16 Restaurant Parking Spaces
- Two Full Access Points (Saturn Avenue and Mars Avenue)
- Menu Boards (2)
- Required landscaping and buffer areas

3.3 Impact on Existing Trees

The proposed development will impact existing trees within the project footprint. Trees located within building pads, drive aisles, parking areas, and utility corridors will require removal. Trees within designated buffer areas and landscape islands may be preserved subject to evaluation of health, species, and construction impacts.

4.0 METHODOLOGY

4.1 Assessment Level

Tree evaluations can be performed at different levels of intensity. This assessment was conducted as a Level 2: Basic Assessment - a detailed visual inspection of each tree and the surrounding site. This assessment required walking completely around each tree trunk, examining any surface roots above ground, the trunk, and the branches.

4.2 Regulatory Framework

This assessment was conducted in accordance with the City of Clearwater Community Development Code, Article 3, Division 12 (Sec. 3-1205), which establishes the following protected tree criteria:

- Protected Trees: Any shade tree 4" DBH or larger
- Accent Trees: 2" DBH or larger
- Palms: 10-foot clear and straight trunk
- Grand Trees: 30" DBH or larger (except Laurel Oaks)
- Specimen/Historic Trees: Cannot be removed
- Citrus species are exempt from permit requirements

4.3 Replacement Requirements

Per Clearwater Code Sec. 3-1205, for commercially designated properties:

1. Remaining DBH removed shall be replaced on an inch-for-inch basis
2. Replacement trees shall be same species or native to West Central Florida
3. If insufficient space for on-site replacement, payment of \$48.00 per inch to tree bank may be required

4.4 Equipment Used

- Diameter Tape and/or Calipers for DBH measurements
- Laser Rangefinder/Hypsometer for height and crown spread measurements
- GPS device for tree location coordinates
- Digital camera for photo documentation
- Flagging tape for tree marking

4.5 Field Assessment

A field evaluation was conducted on [1/30/26] to assess all trees meeting the criteria for protected trees according to City of Clearwater regulations (4" DBH or greater for shade trees, Accent Trees 2" DBH or larger, palms with 10' clear trunk), excluding exotic and invasive species.

5.0 ARBORICULTURAL GLOSSARY

The following arboricultural terms are used in this inventory:

DBH (Diameter at Breast Height): The diameter of a tree measured at 4.5 feet above grade. If there is a fork in the trunk at that point, the diameter is measured at the narrowest area below the fork.

Clear Trunk: For palm trees, the measurement in feet from ground level to the base of the lowest frond.

Protected Tree: Per City of Clearwater Code, any shade tree 4" DBH or larger, Accent Tree 2" DBH or larger, or palm with 10-foot clear trunk.

Grand Tree: Any tree 30" DBH or larger, with the exception of Laurel Oaks.

Specimen Tree: A tree of exceptional quality, size, or rarity that cannot be removed under City ordinance.

Co-dominant Trunks/Branches: A condition when two or more trunks or branches emanate from the same position and are essentially the same size.

Included Bark: A condition when bark in the crotch of a co-dominant stem grows inward and becomes embedded. This is a structural defect.

Dieback: Branches and twigs that are dying or dead at the tips, typically indicating decline.

Tree Protection Area (TPA): The area surrounding a tree that must be protected during construction.

6.0 TREE CONDITION RATING SYSTEM

Each tree was assigned a condition rating based on an evaluation of the tree's overall structural strength and systemic health. The rating scale is 0-6, with 0 being a dead tree and 6 being a specimen tree.

Rating	Condition	Description
0	Dead	A dead tree.
1	Dying/Hazardous	A tree that is dying, severely declining, or hazardous. Should be removed.
2	Poor	A tree exhibiting serious structural defects or health issues. Should be removed unless problems can be treated.
3	Fair/Average	A tree with average structure and systemic health, minor problems that can be corrected with moderate maintenance.
4	Good	A tree with good structure and systemic health with minor problems easily corrected. Valuable and should be preserved.
5	Very Good	A tree with exceptional structure and systemic health. Worthy of site plan modification to ensure preservation.
6	Specimen	A specimen tree possessing superior qualities. Cannot be removed per City ordinance.

Elements of Structure evaluated include: presence of cavities, decayed wood, split/cracked/rubbing branches, branch arrangements and attachments, co-dominant trunks vs. single leader.

Elements of Systemic Health evaluated include: live crown ratio, crown density, tip growth, foliage color and size, presence of insects or disease.

7.0 TREE INVENTORY DATA

A tree inventory is a written record of a tree's condition at the time of inspection. Problems not apparent upon visual observation from the ground cannot be noted. The Tree Locator Map (Exhibit A) indicates the location of each tree by identification number, which corresponds to the number in this Tree Inventory Report.

7.1 Summary of Findings

A field reconnaissance was conducted 1-29-26. The subject site (2.28± acres) contained 19 protected trees. The following summarizes the findings:

- Total Protected Trees Inventoried: 19
- Shade Trees (4"+ DBH): 10
- Oak Trees: 7
- Palm Trees (10' CT or greater): 2
- Grand Trees (30"+ DBH): 0
- Trees to Remain: 0
- Trees to be Removed: 0

7.2 Tree Inventory Table

See Exhibit C for the complete Tree Inventory Summary Table. A sample format is shown below:

Tree #	Species	DBH	Height	Spread	Rating	Condition	Status	Notes
T1	[Species]	[##"]	[##']	[##']	[#]	[Cond.]	[Status]	[Notes]
T2	[Species]	[##"]	[##']	[##']	[#]	[Cond.]	[Status]	[Notes]
...	...	...	...	...	...	...	...	...

8.0 TREE/DBH INCH SUMMARY

Per City of Clearwater Code Sec. 3-1205 Tree Protection requirements, the following DBH inch summary is provided:

Category	Total DBH Inches
DBH Inches on Site	[300.75"]
DBH Inches Requiring Inch-for-Inch Replacement	[110.5"]
TOTAL DBH INCHES TO BE REMOVED	[300.75"]
TOTAL DBH INCHES REMAINING/PRESERVED	0

8.1 Replacement Requirements

Based on the DBH inch summary above:

- Total DBH Inches Requiring Replacement: [110.5"]
- Proposed On-Site Replacement: [?" (via landscape plan)
- Tree Bank Payment (if applicable): [110.5"] x \$48.00/inch = \$[5,304.00]

8.2 Grand Tree Status

No Grand Trees (30"+ DBH) were identified on the subject property."

9.0 TREE PROTECTION REQUIREMENTS

Per City of Clearwater Code and standard arboricultural practices, the following tree protection measures are required for trees to remain:

9.1 Tree Protection Fencing

- Four (4) foot high solid orange construction fencing shall be installed at the drip line of each tree to remain, or at a distance of one foot per inch of DBH from the trunk, whichever is greater.
- Fencing shall be maintained through completion of construction.
- "Tree Protection Area - Keep Out" signage shall be posted on fencing.

9.2 Prohibited Activities Within Tree Protection Area

- No equipment, vehicles, or construction materials storage
- No cement wash-out, chemicals, fuel, or hazardous materials
- No grade changes (fill added or removed)
- No trenching, excavation, or soil compaction
- No root cutting within the protection zone

9.3 Pruning Requirements

4. All pruning shall be in accordance with ANSI A300 Standards and ISA Best Management Practices.
5. No more than 25% of any tree's canopy volume shall be removed.
6. Pruning shall be completed under supervision of an ISA-certified arborist.

9.4 Buffer Areas

Trees located within required buffer areas (10' side buffers, 15' rear buffer per Concept Plan) shall be evaluated for preservation. Native understory vegetation within buffer areas should be retained where possible to qualify for enhanced tree protection credit per City Code.

10.0 LIMITATIONS AND DISCLAIMERS

10.1 Scope of Assessment

This assessment is based on the circumstances and observations as they existed at the time of the site inspection and upon the Concept Plan D provided by McAdams (dated 10-06-25). The opinions in this assessment are given based on observations made and using generally accepted professional judgment.

10.2 Concept Plan Limitations

As noted on the Concept Plan: Site boundaries, existing conditions, and aerial imagery are based on GIS and publicly available sources and do not reflect surveyed data. This concept has not been reviewed or approved by local or state agencies. Its feasibility cannot be guaranteed without further due diligence, permitting review, and coordination with applicable authorities.

10.3 Tree Risk Disclaimer

The examined trees were not subjected to any Tree Risk Assessment above a Level I: Limited Visual Assessment. While reasonable efforts have been made to ensure trees recommended for retention are healthy, no guarantees are offered or implied that these trees will remain standing.

10.4 Validity Period

Because trees are living organisms subject to change, damage, and disease, the results in this assessment are valid only for the date observations took place. Trees should be re-assessed periodically and prior to construction.

10.5 Professional Certification

This Tree Inventory and Assessment was prepared by [Matthew Shinn], ISA Certified Arborist [FL-6258A]

Matthew Shinn

Matthew Shinn

ISA Board Certified Arborist [FL-6258A]

Date: 2/3/26

EXHIBITS

The following exhibits are attached to this report:

Exhibit A - Tree Locator Map

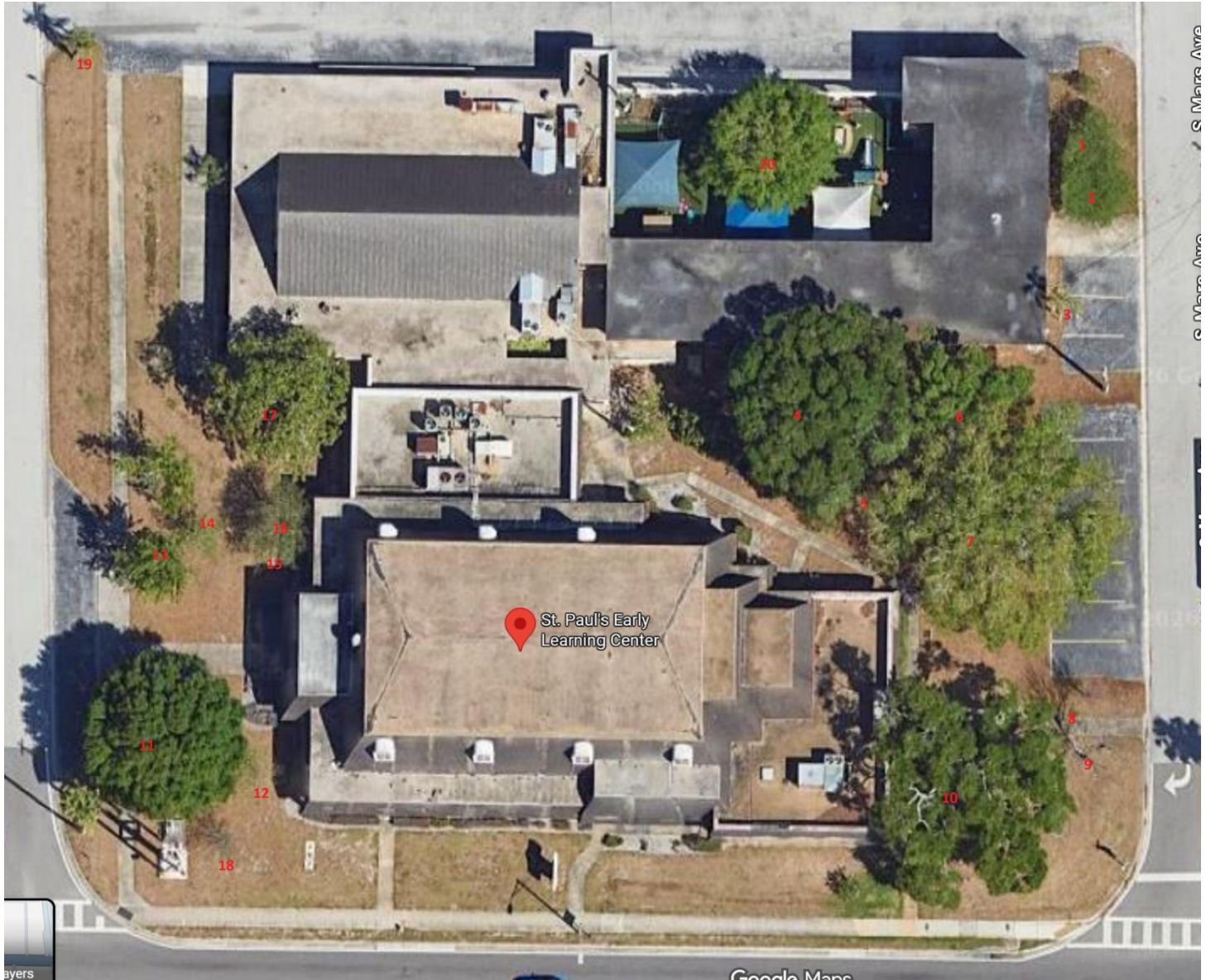


Exhibit B - Concept Plan D (McAdams)

[Insert Concept Plan D dated 10-06-25 prepared by McAdams showing proposed development layout]

Exhibit C - Tree Inventory Summary Table

Tree #	Species	DBH	Height	Spread	Rating	Condition	Status	Notes	Replacement Required
T1	Crape Myrtle	Multi	14'	8'	2	Poor	Dormant	Remove	No
T2	Crape Myrtle	Multi	14-16'	8-9'	2	Poor	Dormant	Remove	No
T3	Queen Palm	8.5"	26'+	10-12'	2	Poor	Deficient	Remove	No
T4	Laurel Oak	31"	24-28'	30-36'	2	Poor	Declining	Remove	No
T5	Live Oak	9"	18'	12'	3	Moderate	Understory	Remove	Yes
T6	Laurel Oak	21"	22-26'	18-20'	2	Poor	Declining	Remove	No
T7	Laurel Oak	39"	24-28'	28-30'	2	Poor	Declining	Remove	No
T8	Elm	5.75"	12'	12-14'	2	Poor	Dormant	Remove	No
T9	?	11"	16'	12'	2	Poor	Dormant	Remove	No
T10	Laurel Oak	37-38"	28'	20'	1	Poor	Declining	Remove	No
T11	Wash. Palm	13'	50+	12'	4	Good	Good	Off Site	No
T12	Laurel Oak	25'	24'	25'	3	Fair	Bad Structure	Prune/Remove	Yes
T13	Crape Myrtle	5.5"	12'	8'	3	Fair	Dormant	Prune	Yes
T14	Maple	10"	18'	12'	2	Poor	Mech. Damage	Remove	No
T15	Crape Myrtle	5.5"	14'	8'	3	Fair	Dormant	Prune	Yes
T16	Crape Myrtle	14"C	16'	14'	2	Poor	Dormant	Codom	No
T17	So. Magnolia	22.5"	28'	23'	3	Fair	BR. Die Back	Prune	Yes
T18	Crape Myrtle	8"	12'	8'	3	Fair	Dormant	Remove	Yes
T19	Queen Palm	9"	22"	10'	1	Poor	Multiple Issue	Off Site	No
T20	Laurel Oak	22"	24'	30'	3	Fair	Bad Structure	Prune	Yes

Exhibit D - Tree Condition Evaluation Forms

None

Exhibit E - Photo Documentation

T#1



T #2



T#3



T #4



T #5



T #6



T #7





T #8



T #9



T #10



T #11



T #12



T #13



T #14



T #15



T #16



T #16



T #18



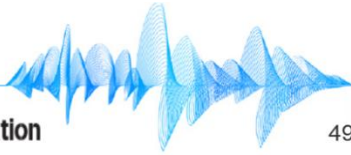
T #19



T #20



— This Completes the Report —



Ms. Jasmine McAdams
Development Project Manager
Woodie's Wash Shack
8935 N. Dale Mabry
Tampa, FL 33614 USA

14 May 2026
PJ2026-1477-L01

Subject: **Woodie's Wash Shack** – Car Wash Facility Sound Study and Sound Control Design

Dear Ms. McAdams:

As requested, Brooks Acoustics Corporation (BAC) has conducted a predictive sound propagation analysis regarding the proposed *Woodie's Wash Shack Car Wash facility*, to be located at 407 S Saturn Ave Clearwater, FL 33755. The project is in support of the current Application (**Case FLD-2026-02005**) before the City of Clearwater Development Review Committee. The operating car wash and vacuum equipment sound emissions and any impact that those sounds may have on the surrounding neighborhood were evaluated. Also, a sound control system was developed to mitigate sounds generated from the operation of the facility and to ensure that those sounds do meet local ordinance requirements and do not disturb the surrounding residential and commercial properties.

Executive Summary

The car wash facility sound study contained the following steps and results:

- **Background / Ambient Sound Analysis:** Based on the *City of Clearwater Zoning & Parcel Map*, and openly available *Google Earth* imagery, acoustical engineering calculations were conducted to estimate the background sound levels that prevail at and around the *407 S Saturn Ave* property. Sound propagation calculations for average road traffic loads along *Gulf to Bay Blvd* and *South Keene Road* were made towards sound receiver positions of interest near the property. Results showed that the predicted sound levels due to regular road traffic activity (i.e., the dominant ambient sound source) are expected to range from **44.2 dBA** to **63.5 dBA** at the various residential and commercial properties that will be in proximity to the proposed *Woodie's Wash Shack Car Wash facility*. For the purpose of this study, these sound levels represent the *prevailing background sound levels in the area*.
- **Car Wash Facility Sound Analysis:** Based on the latest developed drawing sets for the car wash facility construction project (dated 4/14/2026), the various car wash equipment pieces (car wash tunnel and outdoor vehicle vacuum systems) were included at their specific locations into the acoustical engineering calculation model. A fitting car wash tunnel exit sound mitigation system (dryer section of the tunnel) was developed to reduce the potential for impact of sound due to the operating facility on the surrounding area. The developed sound mitigation measures were also included in the acoustical engineering calculations to assess the reduction in sound emission of the car wash facility. Results showed that the predicted sound level contributions from the proposed car wash facility, *with sound control system in place*, are expected to range from **41.1 dBA** to **55.0 dBA** at the various residential and commercial properties that will be in proximity to the proposed *Woodie's Wash Shack Car Wash facility*. These sound levels are expected to **comply** with *local sound regulations* and are expected to be **compatible or below** the *prevailing background sound levels in the area*.

Based on these results, it is the opinion of BAC with a reasonable degree of engineering certainty that, with the herein suggested sound mitigation system in place, the sound emitted by the operation of the proposed car wash facility will *not be intrusive* and will be *in harmony with the prevailing background sound levels in the area (during daytime / opening hours)*. Furthermore, predicted sound levels are expected to be *in compliance with local sound regulations*. As such, the proposed *Woodie's Wash Shack* facility is expected to have *no significant impact* on the neighboring residences and properties.

The sound propagation study steps are documented in the following sections of this Report Letter.

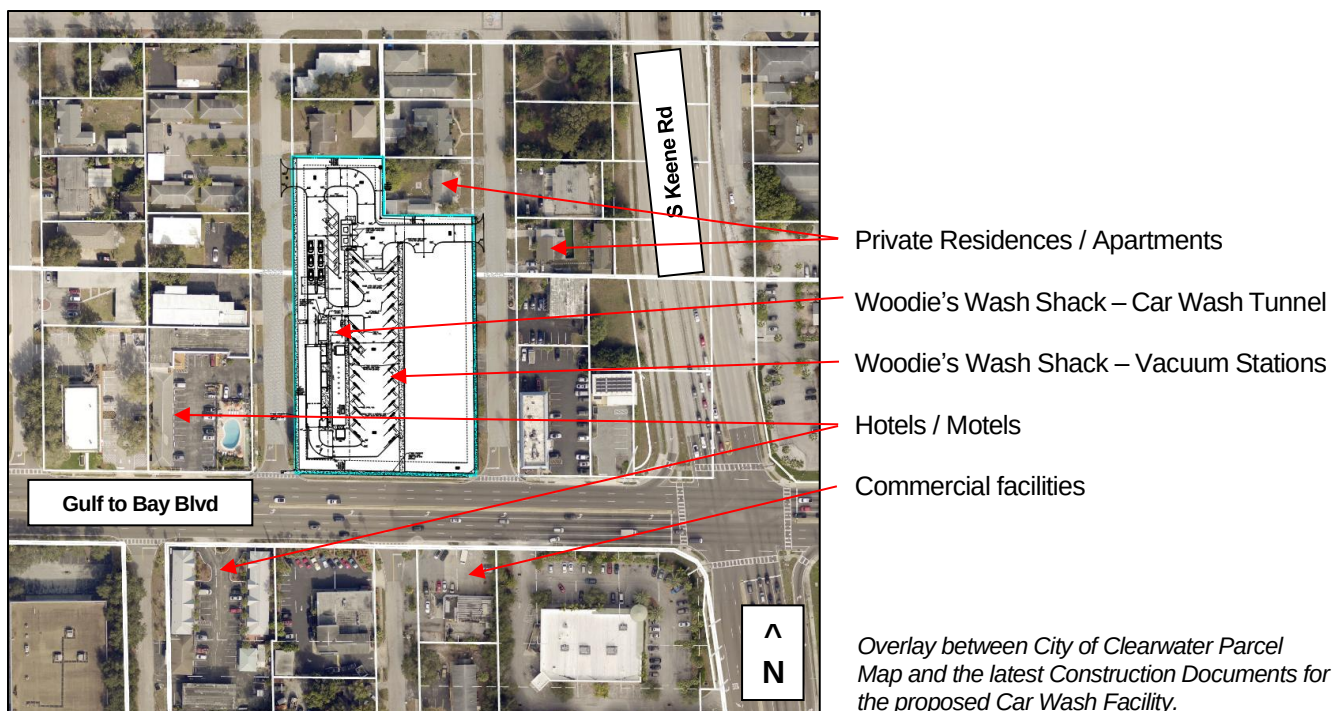
Sound Level Criteria

The *City of Clearwater Community Development Code*, specifically Art. 3, Div. 15, Sec. 3-1508 ("Noise"), outlines that " [...] it shall be unlawful for any person to willfully make, continue or cause to be made or continued any **loud and raucous noise** that through unaided, ordinary auditory senses can be heard [...] at a distance of **100 feet or more from the source of the noise**, measured in a straight line from the radio, loudspeaker, motor, horn, or other noise source [...]".

Therefore, sound level emissions of the proposed *Woodie's Wash Shack* car wash facility shall remain below or compatible with background / ambient sound levels that prevail in the area of the future facility, such as to avoid audibility along neighboring properties.

Sound Study – Project Analysis

The proposed *Woodie's Wash Shack Car Wash* facility will be located at 407 South Saturn Ave in Clearwater, FL, along Gulf to Bay Blvd and close to its intersection with South Keene Road. A representation of the future car wash facility is given as a scaled overlay between the City of Clearwater FL Zoning & Parcel Map with the proposed facility construction documents below (also in Appendix).



Based on the location of the car wash facility's sound emitting elements relative to nearby sound receiver locations (neighboring residential or commercial properties), as well as their proximity to other nearby sound sources (road traffic on Gulf to Bay Blvd and South Keene Road), the following preliminary factors are noted:

1. The car wash facility must mitigate any sound emissions towards residential and commercial properties in proximity. Specifically, focus must be laid on car wash facility elements that are known to emit higher sound levels (car wash tunnel blowers, i.e. dryer section, and outdoor vacuum stations).
2. Focus shall be laid on the sound impacts that the car wash facility may have for the nearest residences from the tunnel to the north (~ 350 feet distance) and the motel to the south (~ 250 feet distance).
3. Gulf to Bay Blvd and South Keene Road are expected to be main contributors to the prevailing background and ambient sound levels in the surrounding area, due to expected high traffic density.

Sound Study – Data Analysis

In this sound propagation analysis, predicted sound levels are given in terms of standard decibels, abbreviated as "dB". These sound levels were A-weighted. Sound level data which applies the standard **A-weighting** function are designated by the symbol "**dBA**". A-weighting of the sound level frequency spectrum is meant to approximate the response of human hearing to the levels of sounds.

Spectral Analysis – Octave Bands

Embedded in the results of this report are spectral sound data. These data are the result of a spectral analysis for a measured sound. In this analysis, the measured sound is divided into bands, known as **octave bands** (OB), which range from low frequency (bass) to high frequency (treble) sounds. The sound levels associated with each of these frequency bands may be shown on a **spectrum chart** ranging from low pitch on the left to high pitch on the right, like the arrangement of a piano keyboard.

Sound Propagation Calculations – Procedure

The acoustical calculations described in this section were developed in accordance with the latest standard *ISO 9613-2:2024 (Acoustics – Attenuation of sound during propagation outdoors, Part 2: Engineering method for the prediction of sound pressure levels outdoors)*, as per best design practices.

3D Modeling of the Site and Establishment of the Receiver Positions

A three-dimensional (3D) Model was created to analyze the sound propagation from the source location (*car wash facility*) to the receiver locations (*surrounding residential and commercial properties*). The geometries in the 3D model have been simplified so as to be appropriate for acoustical sound propagation calculations.

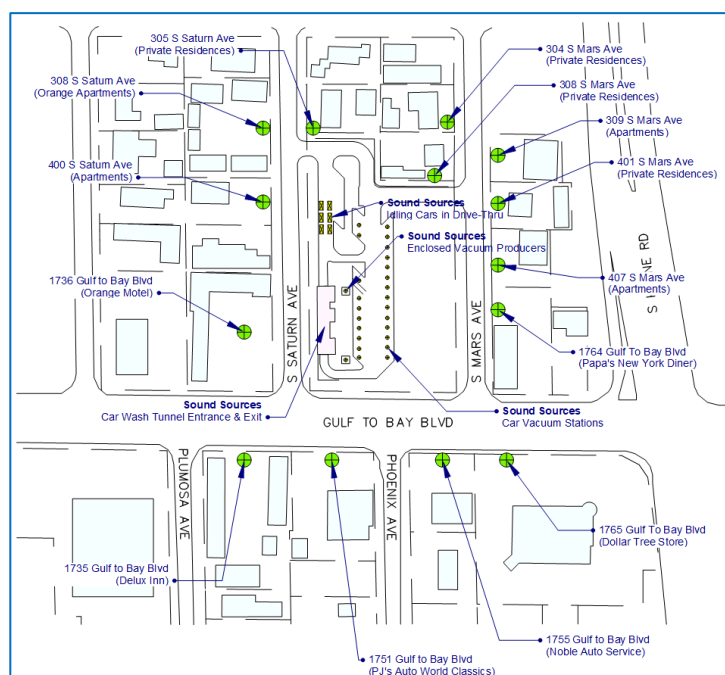
The site and neighborhood layout chosen within the 3D model is based on the *City of Clearwater* official zoning and parcel map (dated 05/2026) and on publicly available *Google Earth* satellite imagery. The proposed car wash facility and the location of sound-emitting elements across the property are in accordance with the latest provided drawing sets for this project (site plan drawing sheet C2.00, dated 4/14/2026), developed by *The John R. McAdams Company*. As such, the sound projection model also included the 3-dimensional features of the surrounding buildings in the area, including their ability to function as sound barriers and reflectors.

Based on this detailed acoustical model, a simplified sound emission model for the various sound-emitting equipment pieces of the car wash facility was then employed for the subsequent sound propagation calculations. Sound levels were determined at **multiple receiver locations (14)** placed along the property lines that directly surround or are in close proximity to the future facility.

The specific receiver locations selected for the model are listed in the table below.

Sound Model Receiver Positions		
Pos. Rel. to Car Wash Facility	Receiver Position Address	Receiver Position Type
EAST	1736 Gulf to Bay Blvd	Orange Motel Clearwater
	400 S Saturn Ave	Apartments
	308 S Saturn Ave	Orange Apartments
NORTH	305 S Saturn Ave	Private Residences
	304 S Mars Ave	Private Residences
	308 S Mars Ave	Private Residences
WEST	309 S Mars Ave	Apartments
	401 S Mars Ave	Private Residences
	407 S Mars Ave	Apartments
	1764 Gulf to Bay Blvd	Papa's New York Diner
SOUTH	1765 Gulf to Bay Blvd	Dollar Tree Store
	1755 Gulf to Bay Blvd	Noble Auto Service
	1751 Gulf to Bay Blvd	PJ's Auto World Classics
	1735 Gulf to Bay Blvd	Delux Inn

A top view site drawing, showing the location of the proposed car wash systems (sound sources, highlighted in yellow), the adjacent residential properties, and the receiver positions (highlighted in green), is depicted below. A more detailed version of this drawing (to scale, sheet **AC 2**) as well as a 3D perspective view drawing (sheet **AC 3**) are provided in the Appendix of this Report Letter.

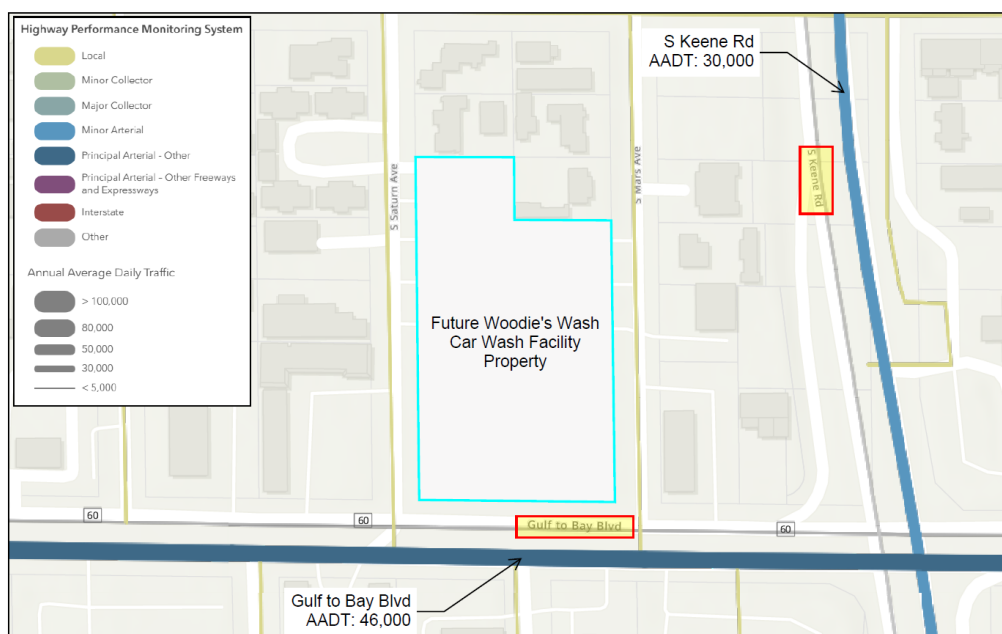


Top View of Sound Propagation Model – Sound Sources (Car Wash Facility), Sound Receiver Locations and Building Structures

Estimation of Background / Ambient Sound Levels in the Project Area

Typical background sound levels (LA90 metric) which are most likely to be expected in the area surrounding the proposed car wash facility (407 South Saturn Ave) property have been estimated through commonly accepted *Federal Highway Administration (FHWA)* tools.

In a first step, the *Annual Average Daily Traffic (AADT)* values for both the *Gulf to Bay Blvd* and the *South Keene Rd* have been determined. The AADT is a standard metric for quantifying traffic volume on a road segment and provides a basis for evaluating related environmental impacts, including sound emissions. The AADT values for both roads are shown in the drawing below and reflect a **high-density traffic flow**.



Highway Performance Monitoring System (HPMS) – Intersection Gulf to Bay Blvd and South Keene Rd

With the knowledge of the speed limit that applies on both roads and the AADT value, it is possible to determine the average distance between two passing cars in proximity to the future facility and its surroundings. This knowledge can then in turn be employed to define a **line sound source** which best defines both roads.

The sound source data which is then used for the modeled road traffic is sourced from the 1998 *FHWA Traffic Noise Model (TNM)*. The passing vehicle speed is set to the speed limit that applies on both roads. Through this procedure, ambient / background sound levels are determined based on the dominant traffic sound and can be used for comparison to the sound level emissions which are expected from the future car wash facility.

Sound Source Data

For the outdoor sound propagation study of the *Woodie's Wash Shack Car Wash facility*, **five (5) different sound source types** were considered in total. These sound sources correspond to the dominant sound-emitting car wash equipment that is being operated on the *Woodie's Wash Shack* property as well as client vehicles in the drive-thru. The considered sound sources and their overall A-weighted sound levels are listed in the table on the next page. To allow for comparison, these shown sound pressure levels (SPL) are normalized to a 20 ft distance. The source sound levels as shown were adjusted and included as sound power levels (dBA re 10^{-12} W) into the sound propagation model.

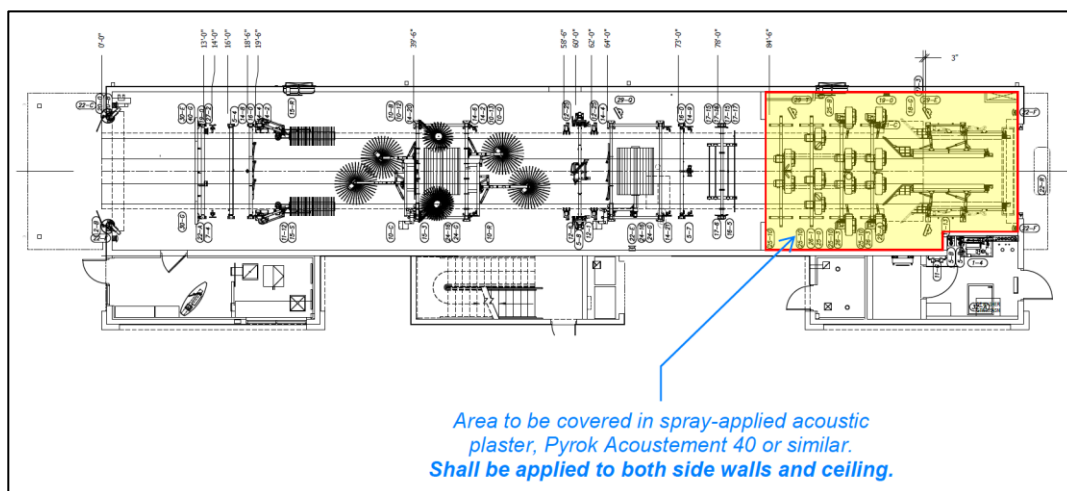
Sound Source Name	Overall SPL @ 20 ft dist.	Data Source	Comment
Car Wash Tunnel (Entrance Open Door)	66.9 dBA 60.6 dBA	Adjusted Blower Mfr. Data, silenced (Sonny's Enterprises)	Data adjusted for sound buildup through reverberation (Sabine) and distances in the car wash tunnel (w/o and w/ sound mitigation)
Car Wash Tunnel (Exit Open Door)	81.3 dBA 75.8 dBA	Adjusted Blower Mfr. Data, silenced (Sonny's Enterprises)	Data adjusted for sound buildup through reverberation (Sabine) and distances in the car wash tunnel (w/o and w/ sound mitigation)
Vacuum Stations	47.1 dBA	MD Acoustics similar Study (Store #44-325 Report, 2023)	Vacuum in car, during regular usage scenario
Vacuum Turbines / Producers	60.3 dBA	Mfr Data, MD Acoustics Study (Store #44-325 Report, 2023)	Spectrum Data obtained from MD Acoustics report and adjusted to overall mfr. Sound Level data (Vacuum IQ, 70 – 76 dBA)
Idling Vehicle at Drive-Thru	58.4 dBA	US TNM (FHWA, 1998) Data	Idling Automobile SPL Data per FHWA

Car Wash Blower Sound Control Design

To mitigate sound level emissions from the blowers used in the car wash tunnel to any outdoor surrounding areas, it is suggested to **finish the car wash tunnel dryer and the tire seal sections with a sound-absorbing acoustical plaster**, 1 5/8" Pyrok Acoustament 40 or equivalent. This treatment shall be applied to both sidewalls and to ceiling of that tunnel section (near exit). The purpose of this sound mitigation measure is to absorb some of the sound emitted by the blowers before it exits the car wash tunnel towards outdoors.

Note that blower silencers as manufactured by *Sonny's Enterprises* are **included** as a sound mitigation measure also and contribute to the required sound attenuation. Therefore, the **blower silencers must be used in conjunction with the car wash tunnel acoustic treatment** to meet the acoustic requirements.

A representation of this suggested installation is shown in the markup drawing below.



Suggested Sound Mitigation System – Addition of Acoustic Plaster at Car Wash Tunnel Dryer and Tire Seal Sections

Details for this system are provided on sheets **AC 8** and **AC 9** in the Appendix of this Letter. This suggested sound control system was also included in the conducted sound propagation calculations in order to assess the to be expected reduction in sound levels at areas and properties surrounding the car wash tunnel.

Sound Propagation Calculations – Results

Sound level calculations, based on the methodology stated in the previous sections, were conducted to project the sound from the future car wash facility to the receiver areas of interest. In total, three (3) sound propagation calculations were conducted; ambient sounds (road traffic only) and car wash facility only – with and without sound mitigation system. The conducted sound propagation calculations are listed below.

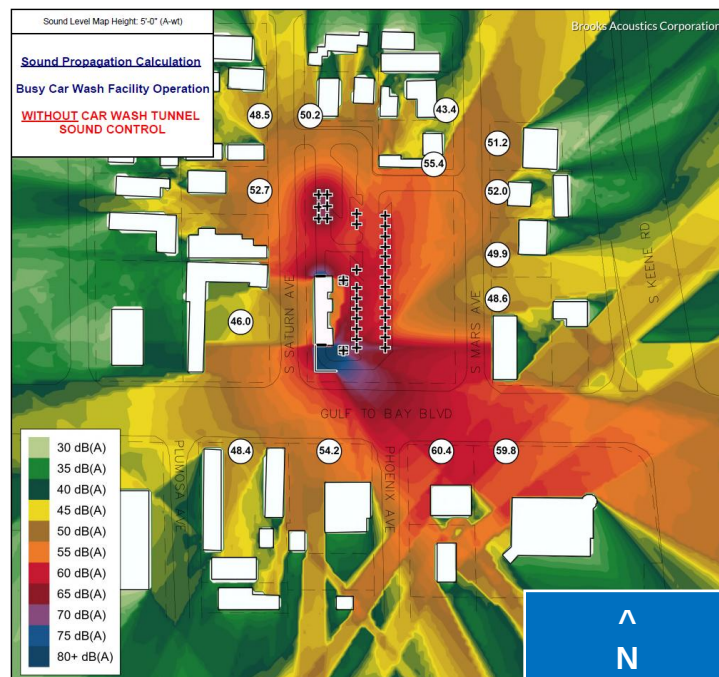
- **Calculation 0-1:** Background Sounds – Avg. Road Traffic on *Gulf to Bay Blvd* and the *South Keene Rd*
- **Calculation 1-1:** Operating Car Wash Facility only – without Sound Mitigation System
- **Calculation 1-2:** Operating Car Wash Facility only – with Sound Mitigation System

Degree of Accuracy

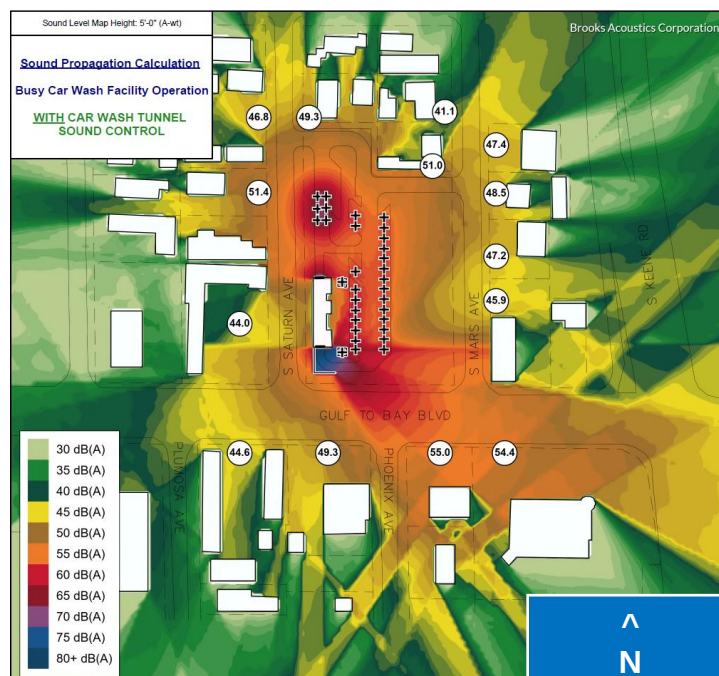
It is essential to consider that the engineering model provides an estimate and real-world measurements may differ. According to the table of accuracy provided in the *ISO 9613-2* standard, a ± 3 dB precision is assumed for sound receiver heights between 0 to 5 meters (0 ft to 16.4 ft) and sound projection distances between 0 to 1000 meters (0 ft to 3280 ft).

Sound Level Map Results

Sound projection calculation results are visualized as **sound pressure level maps**. Such maps provide a color-coded representation of the **sound level distribution**, which is expected due to the operating future car wash facility, across the property and over to the neighboring properties in A-weighted decibels (dBA). Sound level maps for the calculations of the car wash, with and without sound mitigation applied, are shown below. Scaled versions of these sound level map results are provided in the Appendix.



Sound Level Map – Calculation 1-1 – Operating Car Wash Facility – without Sound Mitigation System



Sound Level Map – Calculation 1-2 – Operating Car Wash Facility – with Sound Mitigation System

Summary Table Results

A summary table of the calculation results for the operation of the car wash facility, as received at the receiver positions, are shown below. The sound level contributions from facility operation, both with and without the **sound control system** in place, were also compared in order to estimate the sound attenuation achieved by the mitigation system.

Pos. #	Receiver Position Address	CALCULATION 1-1 Predicted SPL Contribution [dBA] WITHOUT CAR WASH TUNNEL SOUND CONTROL	CALCULATION 1-2 Predicted SPL Contribution [dBA] WITH CAR WASH TUNNEL SOUND CONTROL	Predicted Background Sound Level Range (LA90) [dBA]
1	1736 Gulf to Bay Blvd (Orange Motel Clearwater)	46.0	44.0	53.2 to 59.2
2	400 S Saturn Ave (Apartments)	52.7	51.4	45.5 to 51.5
3	308 S Saturn Ave (Orange Apartments)	48.5	46.8	44.2 to 50.2
4	305 S Saturn Ave (Private Residences)	50.2	49.3	45.2 to 51.2
5	304 S Mars Ave (Private Residences)	43.4	41.1	46.2 to 52.2
6	308 S Mars Ave (Private Residences)	55.4	51.0	49.0 to 55.0
7	309 S Mars Ave (Apartments)	51.2	47.4	46.4 to 52.4
8	401 S Mars Ave (Private Residences)	52.0	48.5	47.1 to 53.1
9	407 S Mars Ave (Apartments)	49.9	47.2	49.5 to 55.5
10	1764 Gulf To Bay Blvd (Papa's New York Diner)	48.6	45.9	50.4 to 56.4
11	1765 Gulf To Bay Blvd (Dollar Tree Store)	59.8	54.4	57.5 to 63.5
12	1755 Gulf to Bay Blvd (Noble Auto Service)	60.4	55.0	57.3 to 63.3
13	1751 Gulf to Bay Blvd (P.J.'s Auto World Classics)	54.2	49.3	57.1 to 63.1
14	1735 Gulf to Bay Blvd (Delux Inn)	48.4	44.6	56.6 to 52.6

Overall, the predicted sound level contributions of the car wash facility without **sound control system** range from **52.7 dBA** to **55.4 dBA** at the *nearest* residential properties to the north and to the west of the facility. The table highlights that these sound levels **marginally exceed** the expected prevailing background sound levels (~ 45 to 55 dBA) at some locations that surround the future car wash facility. These results therefore motivate the installation of an adequate sound mitigation measure, such as the one suggested in this Report Letter.

The predicted sound level contributions of the car wash facility **with** sound control system range from **51.0 dBA** to **51.4 dBA** at the *nearest* residential properties to the north and to the west of the facility, and as such are expected to be **compatible** with the expected prevailing background sound levels (~ 45 to 55 dBA) across all locations surrounding the future car wash facility (during open / daytime hours).

Discussion

Based on the predictive sound propagation study with regard to the proposed *Woodie's Wash Shack Car Wash facility* in Clearwater, FL, the following was determined:

- Sound level contributions by the proposed car wash facility, **without** the suggested sound control system, are predicted to range from **52.7 dBA** to **55.4 dBA** along *nearest* the residential properties to the north and to the west. These sound levels are expected to **marginally exceed** the *prevailing background sound levels in the area* during open / daytime hours (~ 45 to 55 dBA).
- Sound level contributions by the proposed car wash facility, **with** the suggested sound control system, are predicted to range from **51.0 dBA** to **51.4 dBA** along *nearest* the residential properties to the north and to the west. These sound levels are expected to be **compatible** with the *prevailing background sound levels in the area* during open / daytime hours (~ 45 to 55 dBA).
- The installation of a sound mitigation system, such as the one suggested in this Report Letter (acoustic plaster finish on the ceiling and walls of the car wash tunnel dryer and tire seal sections) *shall be considered* in order to meet the *local regulations* and to be compatible the *prevailing background sound levels in the area*.

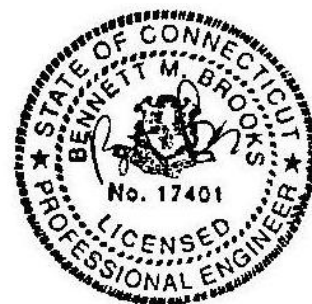
Based on these results and with consideration of a sound control system installation, it is the opinion of BAC with a reasonable degree of engineering certainty that the sound emitted by the operation of the proposed *Woodie's Wash Shack Car Wash facility* will *not be intrusive* and will be *in harmony with the prevailing background sound levels in the area (daytime hours)*. Accordingly, these sound levels are found to be *in compliance with the City of Clearwater Community Development Code (Sec. 3-1508, "Noise")*. As such, the facility's operation is expected to have *no significant impact* on the neighboring residences and properties.

Please contact me if you have any questions concerning these findings.

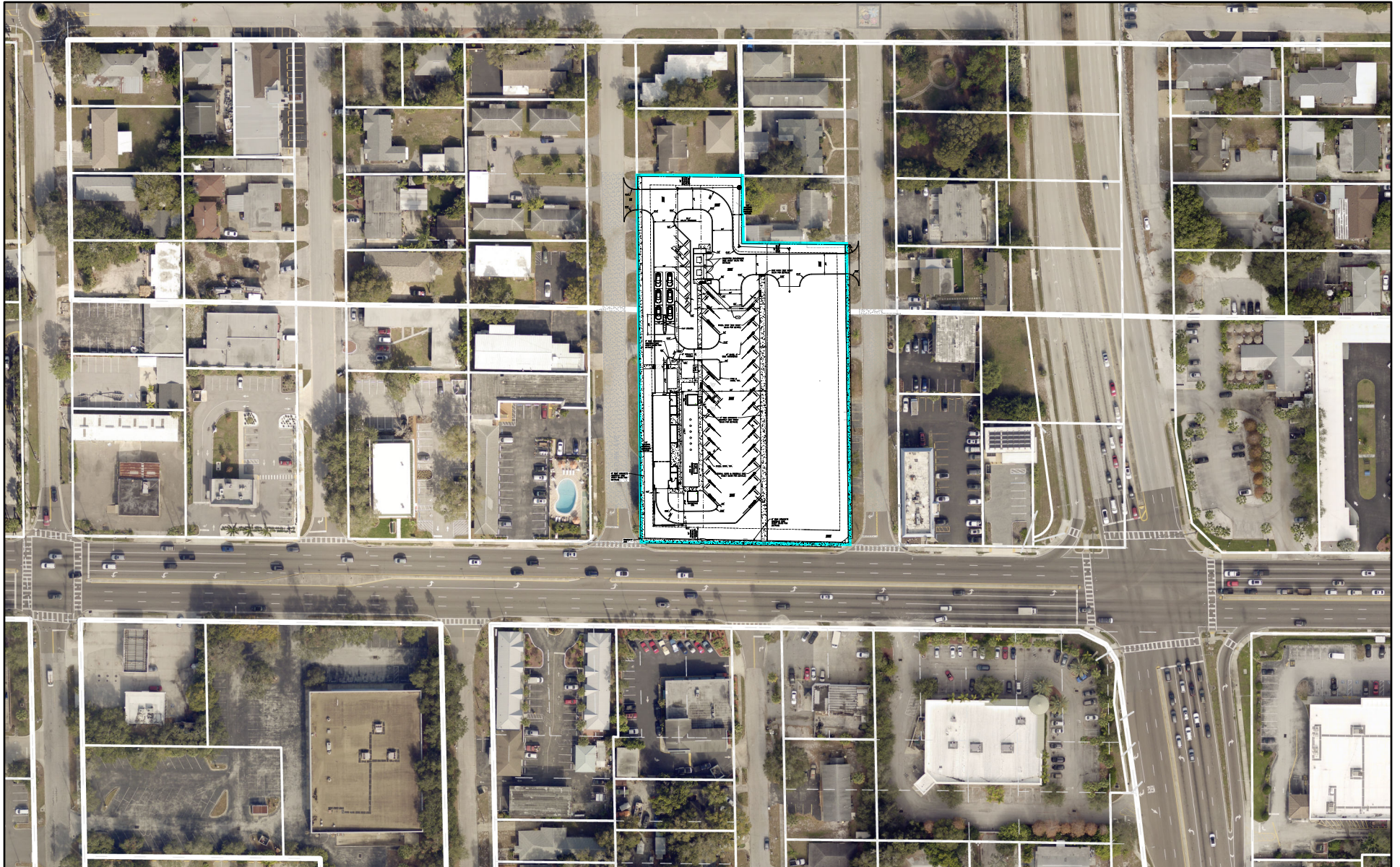
Very truly yours,
BROOKS ACOUSTICS CORPORATION

Bennett M. Brooks, **PE, FASA, INCE**
President

Attachments



BAC Overlay - 407 S Saturn Ave, Clearwater, FL - Woodie's Wash Shack & Zoning Map



5/11/2026

Scale: 0.74632" = 125'-2"

Basis for Sound Propagation Model. Scaled Overlay of the following Items:

- Woodie's Wash Car Wash Facility, Site Plan - The John R. McAdams Company, Inc. Construction Documents, Site Drawing Sheet C2.00, dated 4/14/2026
- Official Clearwater, FL Zoning & Parcel Map - <https://www.myclearwater.com/My-Government/About-Clearwater/Maps-GIS> [Last Accessed 5/11/2026]



Parcel Map & Sound Model Overlay
Top View

Scale: 1" = 150' (1:1800)

Notes:

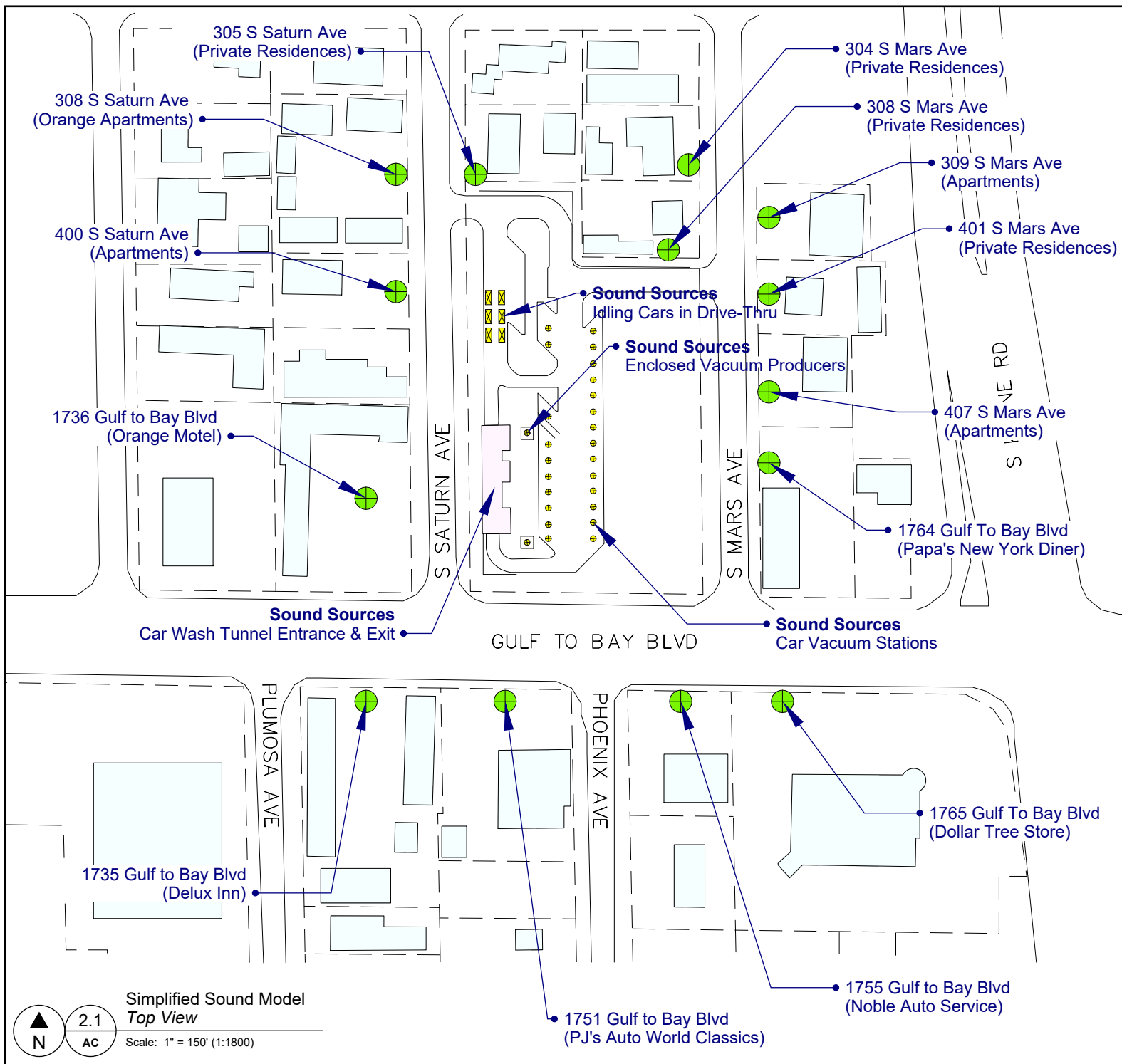
- Simplified 3D model with property lines and lot layouts based on the City of Clearwater FL Zoning Map, dated 05/2026.

- The layout and placement of the proposed car wash facility elements on the Woodie's Wash Shack property is in accordance with the provided site plan drawings, sheet C2.00, developed by The John R. McAdams Company, Inc., dated 4/14/2026.

- Building structures and shapes for neighboring properties in the 3D model are an approximation based on publicly available Google Earth imagery and OpenStreetMap files.

Legend:

- Sound Source Positions (Car Wash Equipment)
- Sound Receiver Positions (Adjacent Properties)



Notes:

- Simplified 3D model with property lines and lot layouts based on the City of Clearwater FL Zoning Map, dated 05/2026.
- The layout and placement of the proposed car wash facility elements on the Woodie's Wash Shack property is in accordance with the provided site plan drawings, sheet C2.00, developed by The John R. McAdams Company, Inc., dated 4/14/2026.
- Building structures and shapes for neighboring properties in the 3D model are an approximation based on publicly available Google Earth imagery and OpenStreetMap files.

Legend:

- Sound Source Positions (Car Wash Equipment)
- Sound Receiver Positions (Adjacent Properties)

BAC
Brooks Acoustics Corporation

BROOKS ACOUSTICS CORP.
49 N. Federal Hwy., #121
Pompano Beach, FL 33062
Tel: 754-229-1450

CLIENT
Woodie's Wash Shack
407 S Saturn Ave
Clearwater, FL 33755

ISSUE
05.13.26

REVISION NO.
0

PROJECT NO.
PJ2025-1477

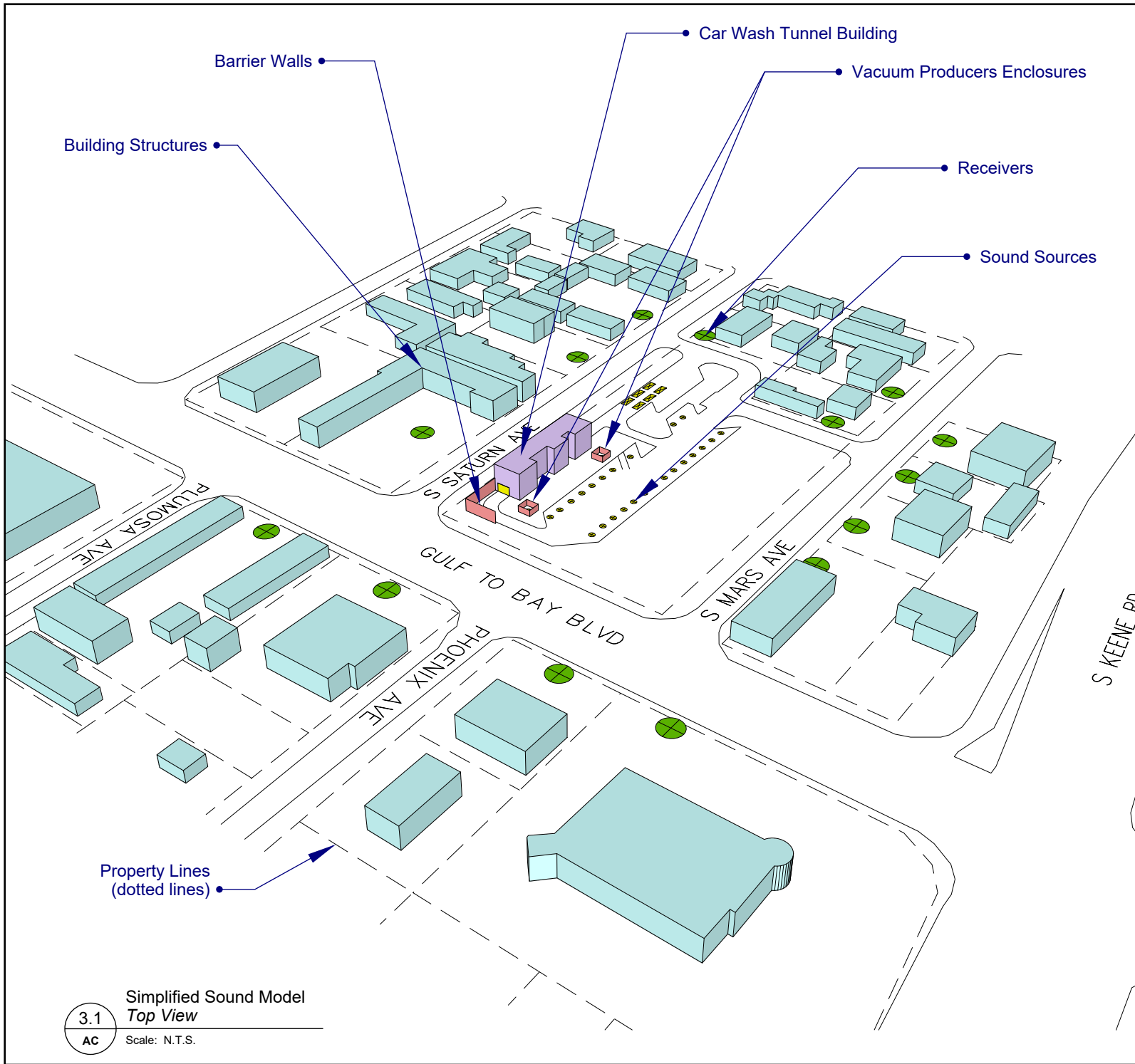
PROJECT
Car Wash Study

DRAWN BY
Jenita Schwabbe, M.Sc.
jenita@brooksbac.com

DESCRIPTION
Sound Model - Top View

AC

2



Simplified Sound Model
Top View

3.1

AC

Scale: N.T.S.

Notes:

- Simplified 3D model with property lines and lot layouts based on the City of Clearwater FL Zoning Map, dated 05/2026.

- The layout and placement of the proposed car wash facility elements on the Woodie's Wash Shack property is in accordance with the provided site plan drawings, sheet C2.00, developed by The John R. McAdams Company, Inc., dated 4/14/2026.

- Building structures and shapes for neighboring properties in the 3D model are an approximation based on publicly available Google Earth imagery and OpenStreetMap files.

Legend:

- Sound Source Positions (Car Wash Equipment)
- Sound Receiver Positions (Adjacent Properties)

Sound Level Map Height: 5'-0" (A-wt)

Sound Propagation Calculation

Estimated Ambient Sound Levels

For Average Traffic Density on
Gulf to Bay Blvd & S Keene Rd

Brooks Acoustics Corporation

Notes:

- Sound Map Height: 5'-0" above terrain (A-weighted results).
- Sound Propagation calculation method in accordance with ISO 9613-2:2024 standard.
- Model Sound Sources that are turned **ON** are the Gulf to Bay Blvd and S Keene Rd Line Sound Sources.
- 3D Building geometries are included in this sound propagation model.

BAC
Brooks Acoustics Corporation
"Building a Sound Future"

CLIENT
Woodie's Wash Shack
407 S Saturn Ave
Clearwater, FL 33755

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REVISION NO.
0

PROJECT NO.
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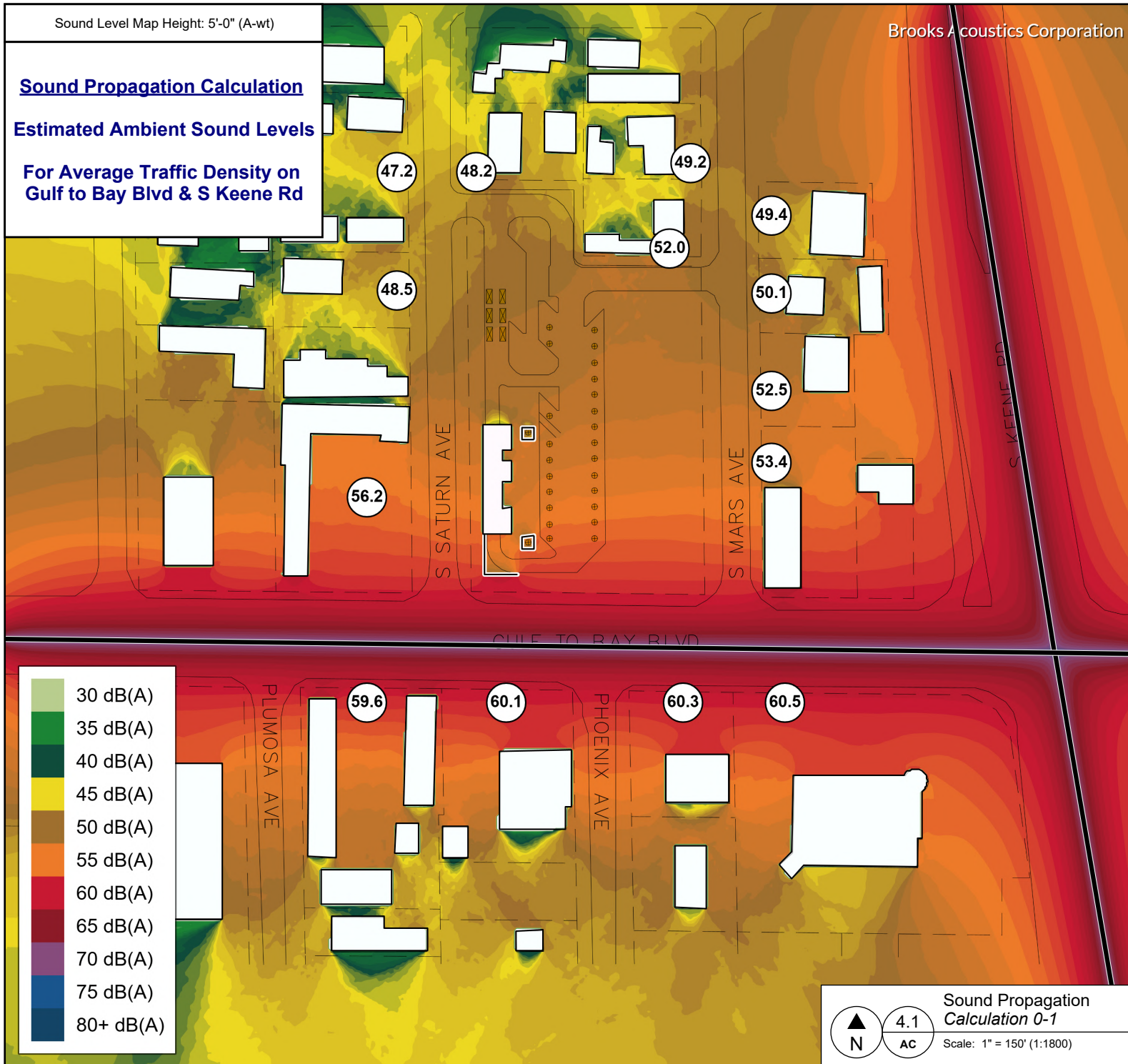
PROJECT
Car Wash Study

DRAWN BY
J. Schwabgen, M.Sc.
j.schwabgen@brooksac.com

DESCRIPTION
Sound Propagation Calc. 0-1

AC

4

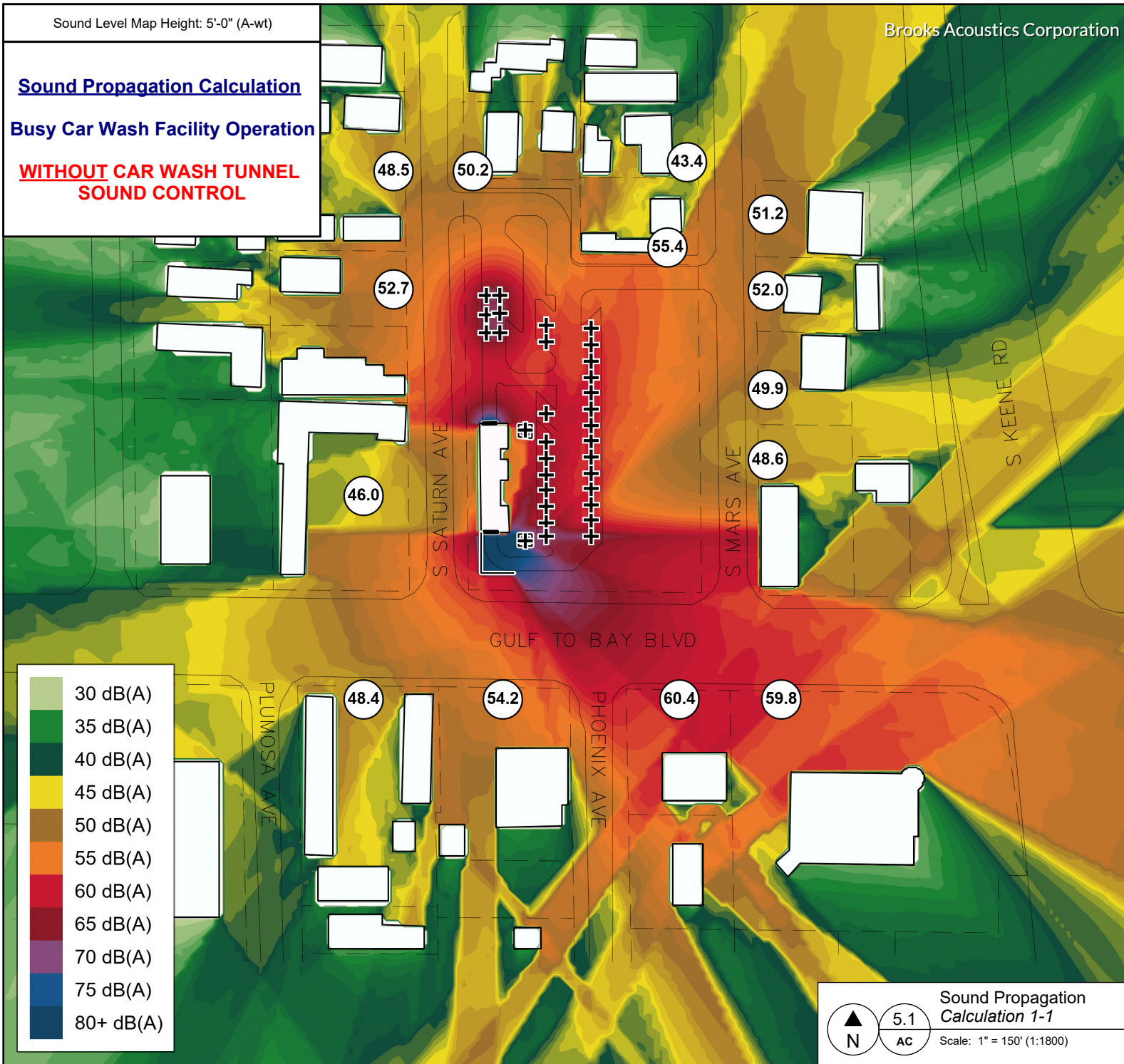


Sound Level Map Height: 5'-0" (A-wt)

Sound Propagation Calculation

Busy Car Wash Facility Operation

**WITHOUT CAR WASH TUNNEL
SOUND CONTROL**



Notes:

- Sound Map Height: 5'-0" above terrain (A-weighted results).
- Sound Propagation calculation method in accordance with ISO 9613-2:2024 standard.
- Sound Source Sound Data obtained through manufacturers, similar sound studies or BAC field measurements.
- Model Sound Sources that are turned **ON** are marked with **black crosses**.
- Model Sound Sources that are turned **OFF** are marked with **red crosses**.
- 3D Building geometries are included in this sound propagation model.

BAC
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"Building a Sound Future"

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407 S Saturn Ave
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REVISION NO.
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PROJECT NO.
PJ2025-1477

PROJECT
Car Wash Study

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Jill M. Schwabgen, M.Sc.
jill.schwabgen@brooksbac.com

DESCRIPTION
Sound Propagation Calc. 1-1

AC

Sound Level Map Height: 5'-0" (A-wt)

Sound Propagation Calculation

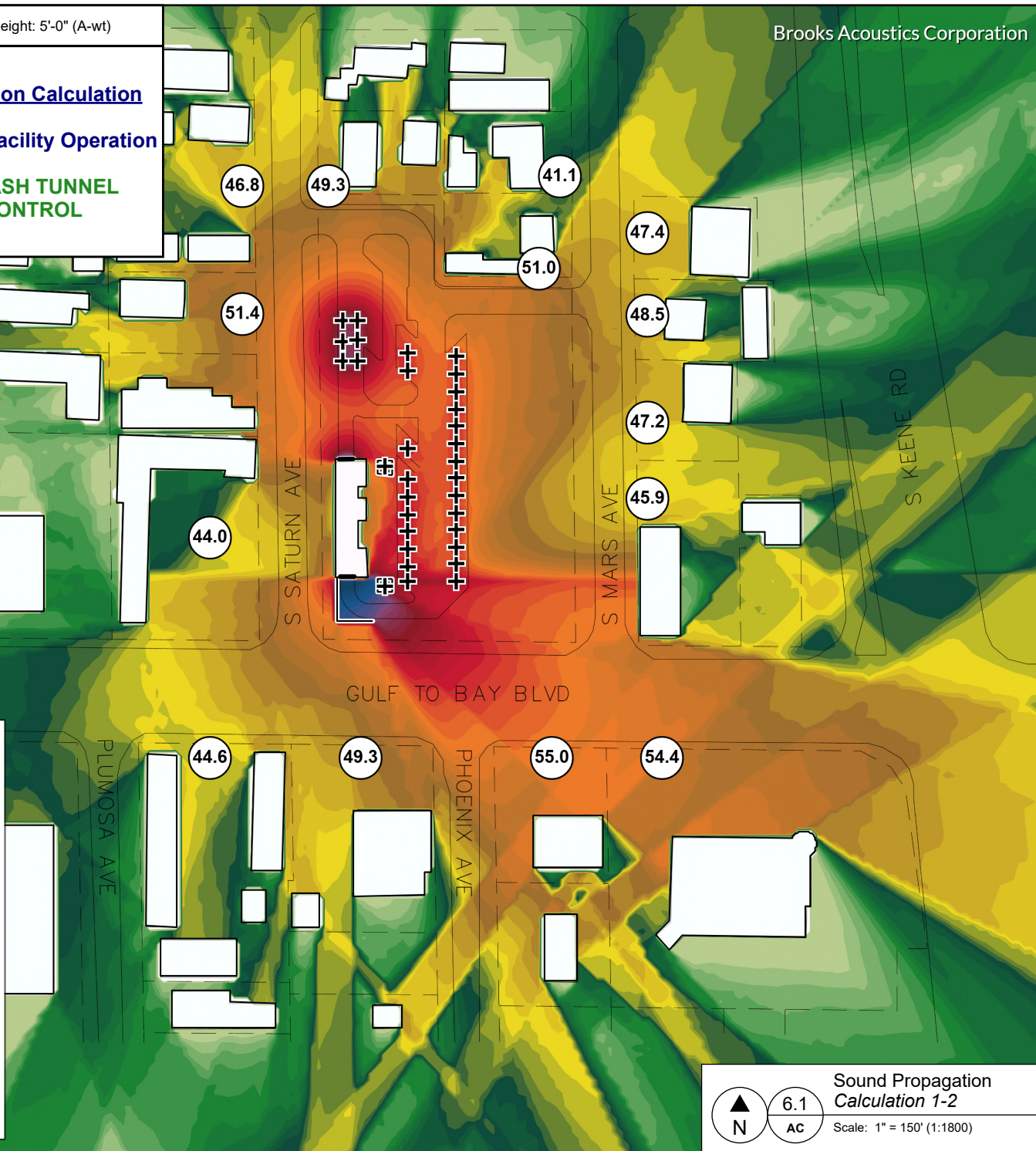
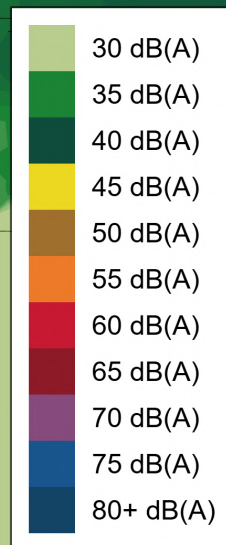
Busy Car Wash Facility Operation

**WITH CAR WASH TUNNEL
SOUND CONTROL**

Brooks Acoustics Corporation

Notes:

- Sound Map Height: 5'-0" above terrain (A-weighted results).
- Sound Propagation calculation method in accordance with ISO 9613-2:2024 standard.
- Sound Source Sound Data obtained through manufacturers, similar sound studies or BAC field measurements.
- Model Sound Sources that are turned **ON** are marked with **black crosses**.
- Model Sound Sources that are turned **OFF** are marked with **red crosses**.
- 3D Building geometries are included in this sound propagation model.
- Acoustic treatment measures suggested for the car wash tunnel and presented on sheets **AC 8** and **AC 9**, are included in this sound propagation model.



Sound Propagation
Calculation 1-2

Scale: 1" = 150' (1:1800)



BAC
Brooks Acoustics Corporation

BROOKS ACOUSTICS CORP.
49 N. Federal Hwy., #121
Pompano Beach, FL 33062
Tel: 754-229-1450

CLIENT
Woodie's Wash Shack
407 S Saturn Ave
Clearwater, FL 33755

ISSUE
05.13.26

REVISION NO.
0

PROJECT NO.
PJ2025-1477

PROJECT
Car Wash Study

DRAWN BY
Jill M. Schwabgen, M.Sc.
jill@brooksaudio.com

DESCRIPTION
Sound Propagation Calc. 1-2

AC

6

Sound Propagation Results - Summary Table

Pos. #	Receiver Position Address	CALCULATION 1-1 Predicted SPL Contribution [dBA] WITHOUT CAR WASH TUNNEL SOUND CONTROL	CALCULATION 1-2 Predicted SPL Contribution [dBA] WITH CAR WASH TUNNEL SOUND CONTROL	Predicted Background Sound Level Range (LA90) [dBA]
1	1736 Gulf to Bay Blvd (Orange Motel Clearwater)	46.0	44.0	53.2 to 59.2
2	400 S Saturn Ave (Apartments)	52.7	51.4	45.5 to 51.5
3	308 S Saturn Ave (Orange Apartments)	48.5	46.8	44.2 to 50.2
4	305 S Saturn Ave (Private Residences)	50.2	49.3	45.2 to 51.2
5	304 S Mars Ave (Private Residences)	43.4	41.1	46.2 to 52.2
6	308 S Mars Ave (Private Residences)	55.4	51.0	49.0 to 55.0
7	309 S Mars Ave (Apartments)	51.2	47.4	46.4 to 52.4
8	401 S Mars Ave (Private Residences)	52.0	48.5	47.1 to 53.1
9	407 S Mars Ave (Apartments)	49.9	47.2	49.5 to 55.5
10	1764 Gulf To Bay Blvd (Papa's New York Diner)	48.6	45.9	50.4 to 56.4
11	1765 Gulf To Bay Blvd (Dollar Tree Store)	59.8	54.4	57.5 to 63.5
12	1755 Gulf to Bay Blvd (Noble Auto Service)	60.4	55.0	57.3 to 63.3
13	1751 Gulf to Bay Blvd (PJ's Auto World Classics)	54.2	49.3	57.1 to 63.1
14	1735 Gulf to Bay Blvd (Delux Inn)	48.4	44.6	56.6 to 52.6

Attenuation
Performance,
Sound Level
Reduction

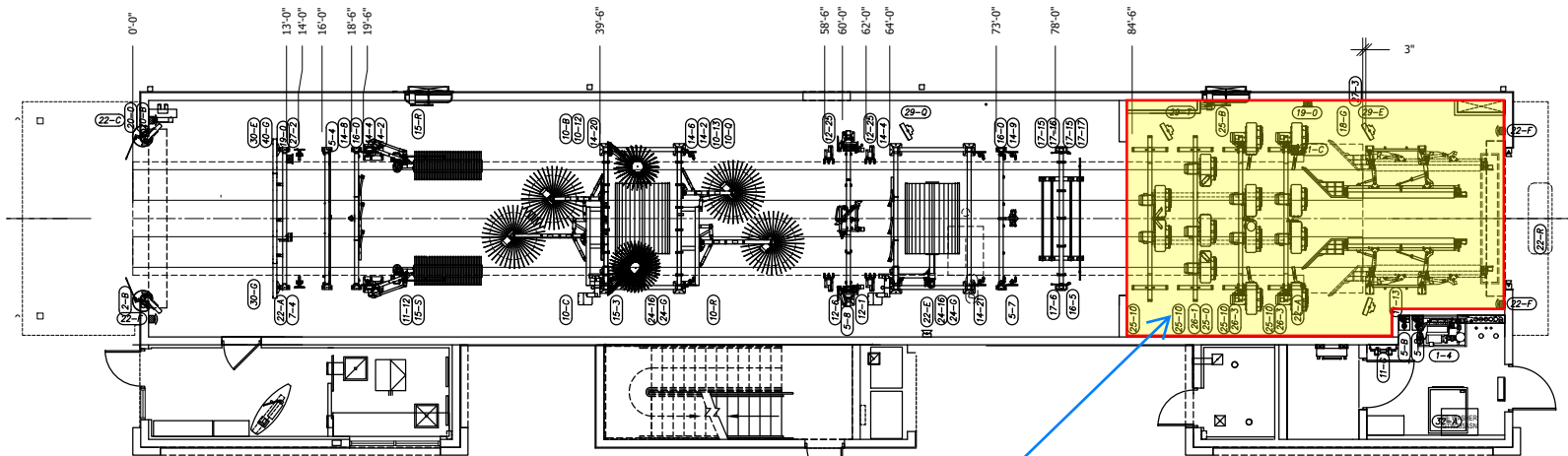
3 to 5 dBA

Predicted Padel Sound Pressure Level Contributions WITH Sound Control System in place are expected to be:

- Compliant with local sound level limit regulations (City of Clearwater FL - Community Development Code)
- Consistent with or lower than the currently prevailing sound levels in the area (daytime / open hours)

Car Wash Tunnel (Dryer Portion) Sound Mitigation - System Design

Car Wash Tunnel Equipment Drawing - Markup



Scale: 1/16" = 1'-0"

Area to be covered in spray-applied acoustic
plaster, Pyrok Acoustement 40 or similar.
Shall be applied to both side walls and ceiling.

Car Wash Tunnel Area as shown shall be finished (interior walls and ceilings) with sound-absorptive spray-applied acoustic plaster such as Pyrok Acoustement 40 to a minimum thickness of 1 5/8".
Estimated Quantity: approx. 1,500 sq. ft.

(Markup Drawing of Sheet 6.1, Equipment Layout, by Sonny's Enterprises, dated 09/26/2025)

Car Wash Tunnel (Dryer Portion) Sound Mitigation - Basis of Design

The following car wash tunnel (dryer portion, near exit) acoustic finish served as basis of design and was assumed throughout the sound propagation calculations:



Pyrok Acoustement 40 Decorative/Acoustical Surfacing Material Product Data

1. Description

Pyrok Acoustement 40 is a nominal 41 PCF (air-dried density) Portland cement/exfoliated vermiculite spray-applied formulation 100% free from asbestos and mineral fibers, polystyrene, and cellulose. Pyrok Acoustement 40 is highly abuse resistant (impact, abrasion, moisture, hostile industrial environments), has excellent adhesion to a variety of substrates, allows substrates to breath and be cleaned by a variety of methods.

2. Uses

Pyrok Acoustement 40 can be used as a decorative surfacing material or as a combination of these qualities even in conjunction as a fireproofing material.

This material is recommended for exterior exposures where resistance to environmental pollution, rain, corrosion, and spalling is required. It may be used in interior exposures where superior abuse resistance is required.

Typically Pyrok Acoustement 40 is specified for transportation facilities, correctional projects, lobbies, atriums, tunnels, natatoriums, gymnasiums, manufacturing facilities, contact wall areas, and any other area requiring high abuse resistance and sound absorption qualities.

It can also be used on interior surfaces of walkways, hallways, and rooms where a purely decorative finish is desired.

Pyrok Acoustement 40 may also be used on ceilings as a combination acoustical finish and fireproofing material.

Custom integral coloration is available within the limits of iron oxide pigmentation.

Physical Performance Properties

Property	Test Method/Authority	Value
Asbestos Content	EPA 400/4M-82-020	No Asbestos No Mineral Fiber
Bond Strength	ASTM E 736	5000 PSF
Compressive Strength	ASTM E 761	300 PSI
Density	Per ASTM E 605	41 PCF (Avg.)
Sound Absorption	ASTM C 423	0.60 NRC @ 1"
Surface Burning	ASTM E 84	0 Flame Spread 0 Smoke Developed
Toxicity	University of Pittsburgh Toxicity Test	LC (50) >300 Grams
Combustibility	ASTM E 136	Non-Combustible

Sound absorption coefficient on solid backing with no air gap ASTM C 423

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
Absorption Coefficient @ 3/8"	0.17	0.20	0.29	0.34	0.56	1.00	0.35
Absorption Coefficient @ 1/2"	0.01	0.20	0.43	0.68	0.75	0.80	0.50
Absorption Coefficient @ 1"	0.18	0.35	0.64	0.73	0.73	0.77	0.60
Absorption Coefficient @ 1 1/2"	0.36	0.51	0.64	0.74	0.84	0.91	0.70
Absorption Coefficient @ 1 5/8"	0.24	0.59	0.74	0.81	0.91	0.97	0.75

Note: The products and manufacturers listed herein are the Basis of Design for this study; similar products from other manufacturers are acceptable, provided their performance is equivalent.

Sound Propagation - Calculation Settings

The settings for the sound propagation calculations were as follows:

Calculation Method ISO 9613-2:2024 (New)

Ground Factor = 0.1G

77.0°F Temperature

70% Humidity

Results are A-weighted

Second order reflections are included

ISO 9613-2 barrier attenuation limit (20/25dB) is enabled

Vertical edges (lateral paths) are included

Limited to convex paths

Limited in distance (ISO 17534-3 recommendation)

Ground reflections are not screened (ISO 17534-3 recommendation)

Sound Propagation - References

References:

ISO 9613-1:1993 — Attenuation of sound during propagation outdoors — Part 1: Calculation of the absorption of sound by the atmosphere

ISO 9613-2:2024 — Attenuation of sound during propagation outdoors — Part 2: Engineering method for the prediction of sound pressure levels outdoors

ISO/TR 17534-3:2015 — Acoustics — Software for the calculation of sound outdoors — Part 3: Recommendations for quality assured implementation of ISO 9613-2 in software according to ISO 17534-1.



February 27, 2026 ∨

WWS Contracting, LLC

407 S Saturn Ave.



STORMWATER REPORT

FOR:

407 S SATURN AVE
City of Clearwater, Florida

Prepared for:

WWS CONTRACTING, LLC
2203 N. Lois Ave,
Tampa, FL 33607

Prepared by:



Submitted To:

Southwest Florida Water Management District
Florida Dept of Transportation
City of Clearwater

February 2026
AVID | McAdams Project No. WWS25005

**407 S Saturn Ave
City of Clearwater, Florida
Section 14, Township 29 South, Range 15 East**

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(Design addresses FAC 62-330, FAC 14-86, Clearwater Stormwater Drainage Criteria Manual)

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This item has been digitally signed and
sealed by Ronald B. Morahan, Jr., P.E.
on the date adjacent to the seal. Signature
must be verified on any electronic copies.

2/27/26

Ronald B. Morahan, Jr., P.E.
FL Reg. No. 48257

Part I – General Information

407 S SATURN AVE
WWS25005

PROPOSED DEVELOPMENT OVERVIEW:

The subject property is located at 407 S Saturn Avenue in Clearwater, Pinellas County, FL in Section 14, Township 29 South, Range 15 East. The area of proposed construction was previously developed as a church circa 1957-1970 (pre-SWFWMD), including 3 building structures and associated paved parking.

The proposed development includes demolition of the existing buildings and the construction of infrastructure to support new commercial development, including stormwater management facilities. The stormwater system is designed to support a proposed car wash facility and an outparcel. The outparcel will be mass-graded in preparation for future development at an assumed 85% impervious cover.

DESIGN CRITERIA:

Stormwater management for this site falls under the jurisdiction of SWFWMD, City of Clearwater, and FDOT. The stormwater design criteria for the system are as follows:

- The proposed improvements shall not increase peak rate of discharge from the site in the City of Clearwater's 50yr-24hr storm.
- The proposed improvements shall not increase peak rate of discharge from the site in the SWFWMD's 25yr-24hr storm.
- The proposed improvements shall not increase peak rate of discharge from the site in any of FDOT's Critical Duration Storms.
- The lowest pavement elevation shall be no lower than SWFWMD 25yr-24hr design high water level on-site.
- The proposed finished floor elevation must be no lower than the SWFWMD 100yr-24hr design high water level or the base flood elevation of any FEMA Special Flood Hazard Area on the site, whichever is higher.
- The proposed on-site underground storage must fully recover the treatment volume within 72 hours via percolation with a 2.0 factor of safety.
- For outfall via culvert to the FDOT Drainage System, the Post FDOT 100-yr discharge rates must all be less than the Critical Pre FDOT 3yr flow rate.
- The site shall be graded to provide freeboard above the FDOT 100-yr Critical Design High Water Level, as follows: 1.0 ft freeboard for an earthen berm, 0.5 ft for a curb / retaining wall, and 0.3 ft for a driveway.

EXISTING SITE CONDITIONS:

Existing site conditions are reflected on the enclosed topographic survey performed by AVID/McAdams on 11/10/25. Elevations on the topographic survey are relative to the North American Vertical Datum of 1988 (NAVD88). All elevations reported in this document (and the associated construction plans) refer to NAVD88. The site includes one- and two-story masonry buildings and associated parking & access. No wetlands or floodplain exist within the Project Area.

Basins:

The Project Area is delineated into five existing drainage basins:

- Ex. Basin 1 covers 0.47 Acres and drains to S Saturn Avenue.
- Ex. Basin 2 covers 0.85 Acres and drains to S Mars Avenue.

- Ex. Basin 3 covers 0.38 Acres and drains to S Mars Avenue.
- Ex. Basin 4 covers 0.36 Acres and drains to Gulf to Bay Boulevard.
- Ex. Basin 5 covers 0.23 Acres and drains to S Saturn Avenue.

On-Site Soils:

According to the Pinellas Co. NRCS Soil Survey, the site contains Myakka Soils and Urban Land (Soil #17), Seffner Soils and Urban Land (Soil #28), Urban Land 0 to 2% slopes (Soil #30). NRCS reports the hydrologic soil group (HSG) for the onsite soil as HSG A/D (Myakka Soils and Urban Land) and HSG A (Seffner Soils and Urban Land). The project geotechnical engineer, Pacscon, verified the following aquifer data in the area of the proposed stormwater storage:

Parameters	Areas of D1 and D2
Observed Ground Water Table (ft below ground surface)	8
Seasonal High Water Table (ft below ground surface)	6
Fillable Porosity	25%
Unsaturated Vertical Infiltration Rate (feet/day)	21.2
Horizontal Hydraulic Conductivity (feet/day)	42.4

The above vertical and horizontal filtration rates represent average values measured at the site. No factor of safety was applied in the above recommended infiltration rates. A 2.0 safety factor was applied prior to using these values in the proposed design. Based on the quoted soil characteristics, the soils on the site are assumed to be HSG A.

Runoff Curve Number (CN)

The CN for the existing pervious areas is based on a land cover of “Open space” with good ground cover and HSG A. The CN for existing pervious areas is 39. The CN for impervious surface is 98. The CN for open water / pond is 100, although no open water area exists on the site.

Pre-Developed Discharge Rate:

The existing discharge rates to the receiving waters were determined by delineating the basins draining toward S Saturn Ave, S Mars Avenue, and Gulf to Bay Boulevard using the site topographic survey. The basin areas, together with the times of concentration and runoff curve numbers, were used to calculate the existing peak rates of the runoff going to the receiving waters.

Nutrient Impairment

The site lies in WBID 1604B1 Allen Creek, which is on FDEP’s verified impaired list for Nutrients and Nutrients (macrophytes). The site lies in HUC12 Alligator Creek-Long Branch Frontal (031002060601), which contains Allen Creek. Allen Creek is designated as an OFW.

Floodplain & Wetland:

FEMA Flood Insurance Rate Map 12103C0066H (eff. 8/24/2021) shows the property lying in Flood Zone X. No floodplain exists on the site. Based on the highly developed condition of the property and the estimated depth to SHGW, it is assumed that no wetland or other surface water areas exist on the site.

POST-DEVELOPMENT CONDITIONS:

The site will be developed as a car wash facility and a mass-graded outparcel for future development. The Project Area will be graded to direct runoff into the proposed underground storage system, which will outfall in three directions:

1. S. Saturn Ave
2. S. Mars Ave
3. Gulf to Bay Blvd.

Pro. Basin 1 and Pro. Basin 2 cover the proposed development site, which will both drain into the proposed underground detention system. The proposed impervious cover in Pro. Basin 1 is based on the provided site plan for the proposed car wash facility. Pro. Basin 2 is assumed to have 85% impervious cover when it is developed.

Curve Number (CN):

The proposed runoff curve numbers for the development were calculated as weighted averages based on the proposed land coverage of impervious and pervious areas. The runoff curve number for the existing conditions was calculated as a weighted average of the existing pervious and impervious areas. See calculations below.

Post Developed Discharge Rate:

The project basins will drain to the proposed underground stormwater system, which will then discharge to Gulf to Bay Blvd, S. Saturn Ave and S. Mars Ave. The proposed development will not increase the stormwater discharge rate from the project site:

- to the FDOT right-of-way in any of the FDOT Critical Duration storms
- to any outfall point in the 50yr-24hr SCS Type II FLMOD Storm
- to any outfall point in the 25yr-24hr SCS Type II FLMOD Storm.

Water Quality Treatment:

The proposed dry retention system will provide the required water quality treatment and nutrient reduction for the project basins. Based the pre-application meeting with SWFWMD staff, the proposed improvements do not qualify as a “redevelopment” as a car wash is a higher intensity use than the existing church facilities. Due to the project’s WBID being nutrient-impaired, the site lying upstream of an OFW within its HUC12, and the project having a higher commercial intensity, the project design is required to show:

- at least 95% reduction of POST phosphorus load
- at least 95% reduction of POST nitrogen load
- no increase in phosphorus or nitrogen loads leaving the site above PRE loads

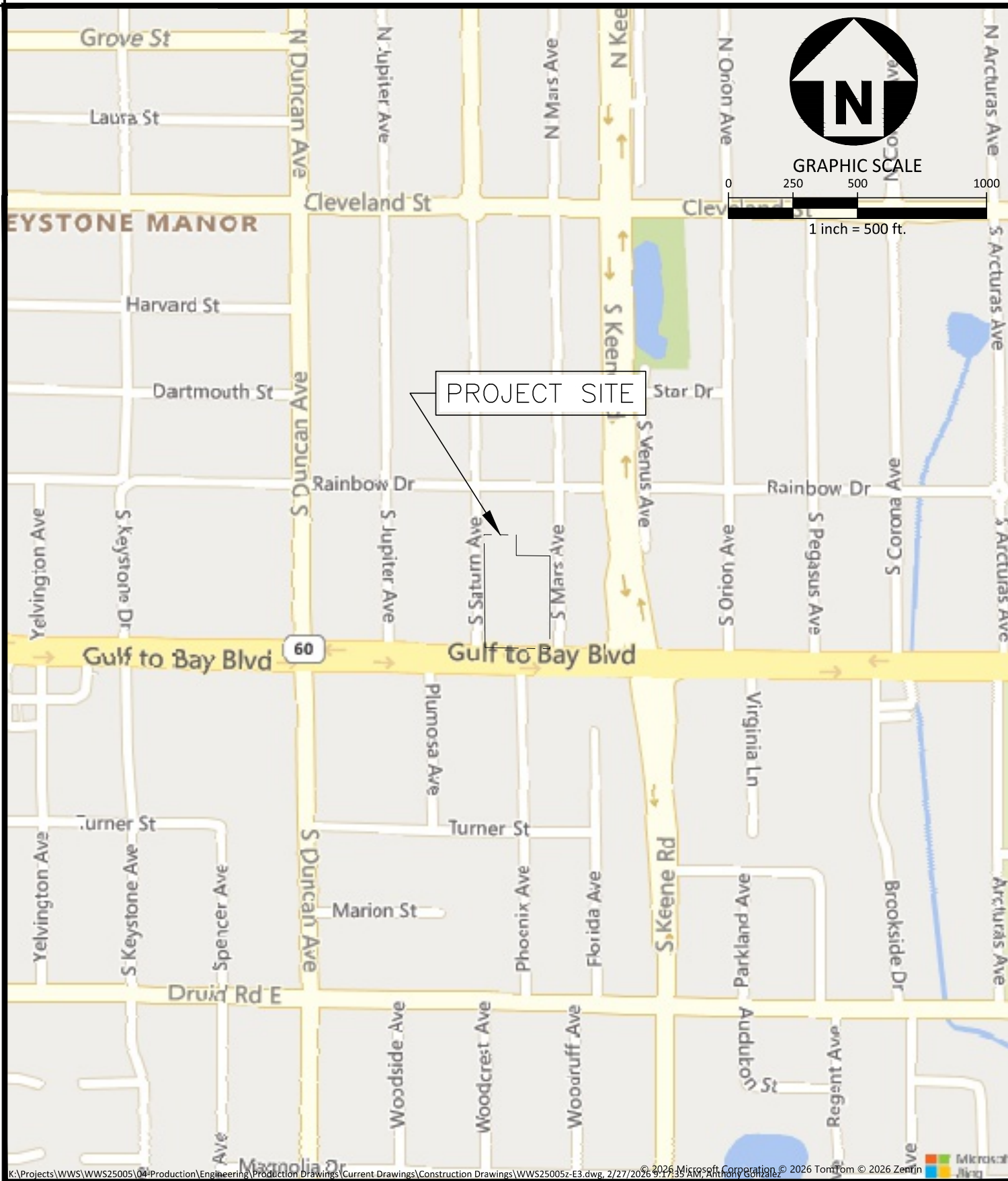
Recovery of the on-site treatment volume will occur within 72 hours via percolation.

Floodplain & Wetlands

The property lies in Flood Zone X. No floodplain or wetland encroachment is proposed.

CONCLUSION:

The proposed surface water management system has been designed to meet or exceed the requirements of SWFWMD, FDOT, and City of Clearwater.



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407 S SATURN AVE

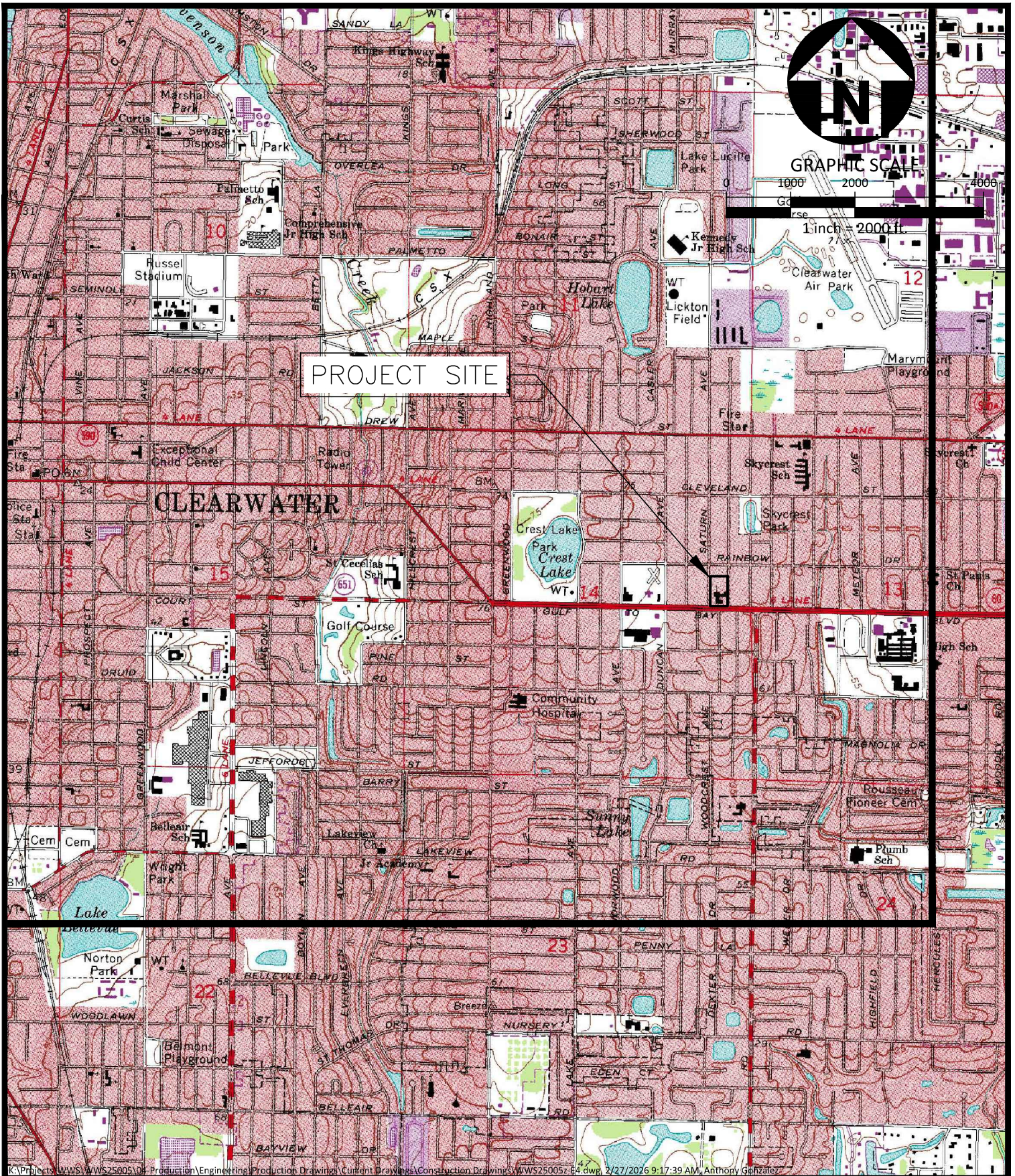
LOCATION MAP

407 S SATURN AVE

CLEARWATER, FL 33755

PLAN INFORMATION

PROJECT NO.	WWS25005
FILENAME	WWS25005-E3.DWG
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DRAWN BY	AG
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DATE	2.27.2026



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407 S SATURN AVE
QUAD MAP
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CLEARWATER, FL 33755

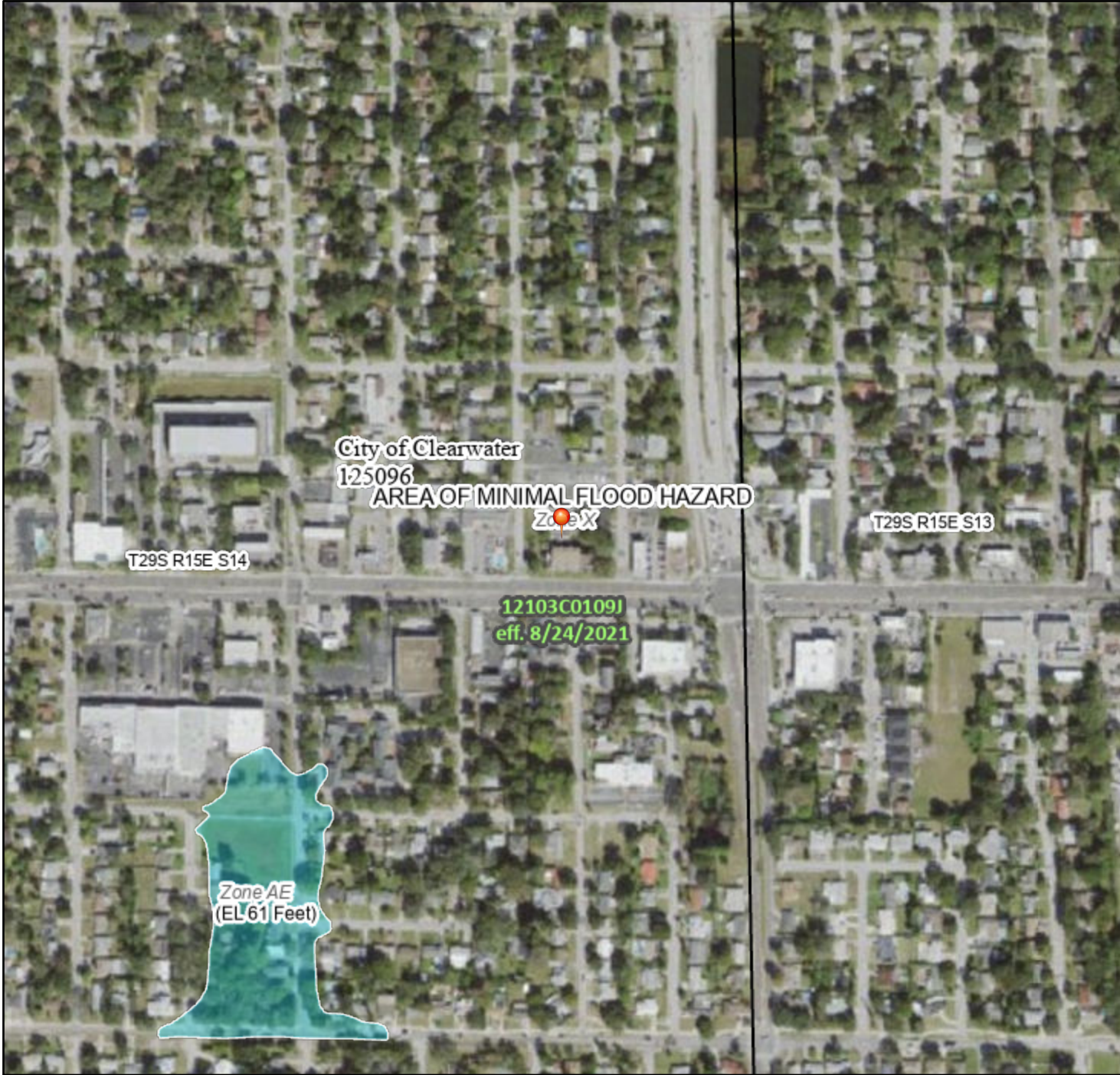
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PROJECT NO.	WWS25005
FILENAME	WWS250052-E4.DWG
CHECKED BY	CP
DRAWN BY	AG
SCALE	1" = 2000'
DATE	2.27.2026

National Flood Hazard Layer FIRMette



82°46'11"W 27°57'56"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

82°45'33"W 27°57'24"N

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
OTHER FEATURES		17.5 Coastal Transect
		Base Flood Elevation Line (BFE)
OTHER FEATURES		Limit of Study
		Jurisdiction Boundary
OTHER FEATURES		Coastal Transect Baseline
		Profile Baseline
OTHER FEATURES		Hydrographic Feature
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **1/14/2026 at 7:38 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Soil Map—Pinellas County, Florida



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

1/14/2026
Page 1 of 3

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
17	Myakka soils and Urban land	1.1	33.0%
28	Seffner soils and Urban land	0.0	0.7%
30	Urban land, 0 to 2 percent slopes	2.2	66.3%
Totals for Area of Interest		3.3	100.0%



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407 S SATURN AVE

AERIAL MAP

407 S SATURN AVE

CLEARWATER, FL 33755

PLAN INFORMATION

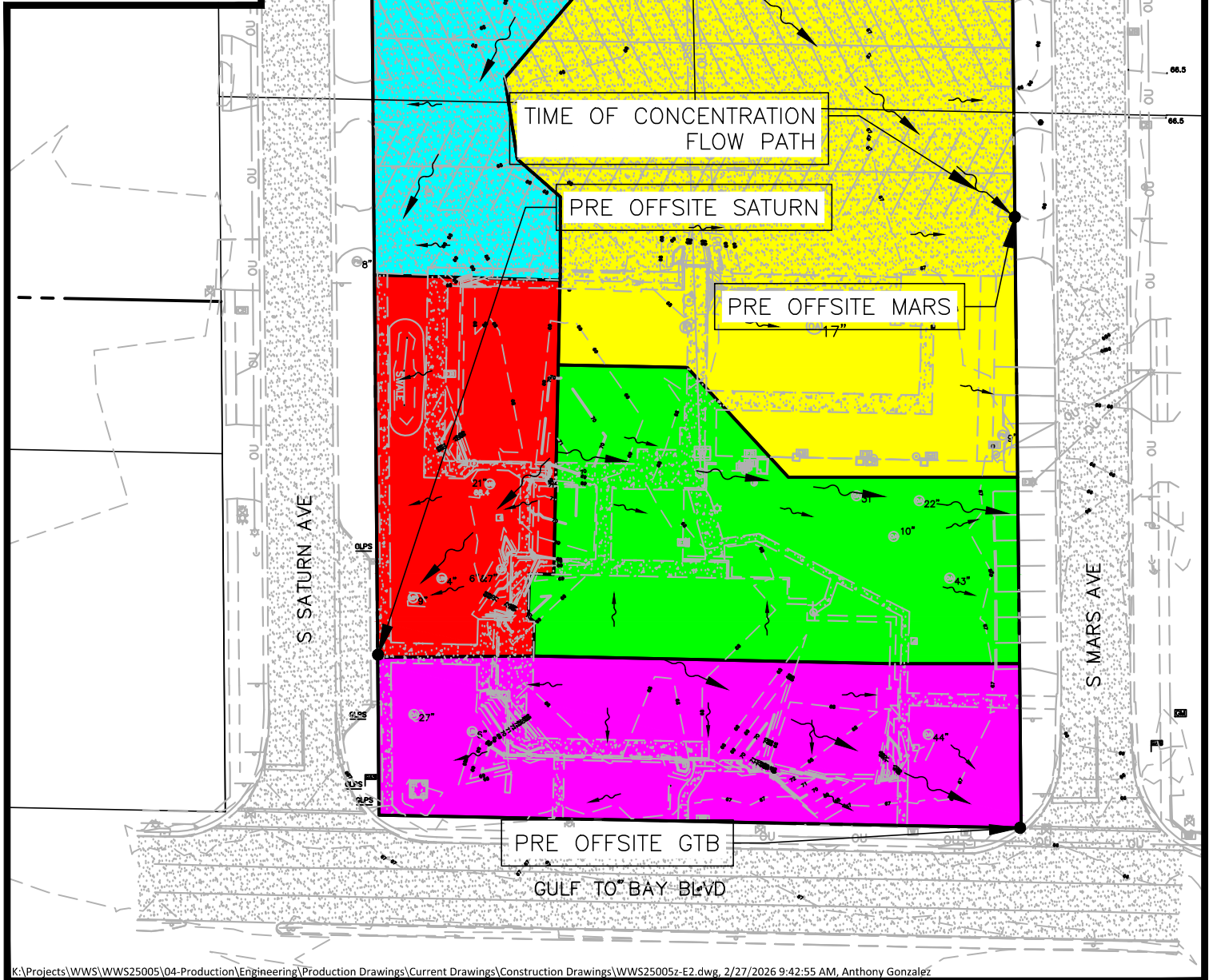
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FILENAME	WWS250052-E5.DWG
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DATE	2.27.2026

Part II – Drainage Calculations & Exhibits

407 S SATURN AVE
WWS25005

SITE LEGEND

	EX. BASIN 1 (0.47 AC)
	EX. BASIN 2 (0.85 AC)
	EX. BASIN 3 (0.38 AC)
	EX. BASIN 4 (0.36 AC)
	EX. BASIN 5 (0.23 AC)



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407 S SATURN AVE

PRE-DEVELOPMENT MAP

407 S SATURN AVE

CLEARWATER, FL 33755

PLAN INFORMATION

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DATE	2.27.2026

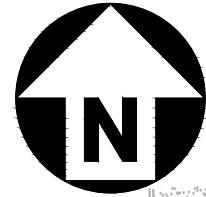
SITE LEGEND



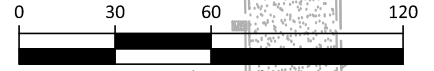
PRO. BASIN 1
(1.5 AC)



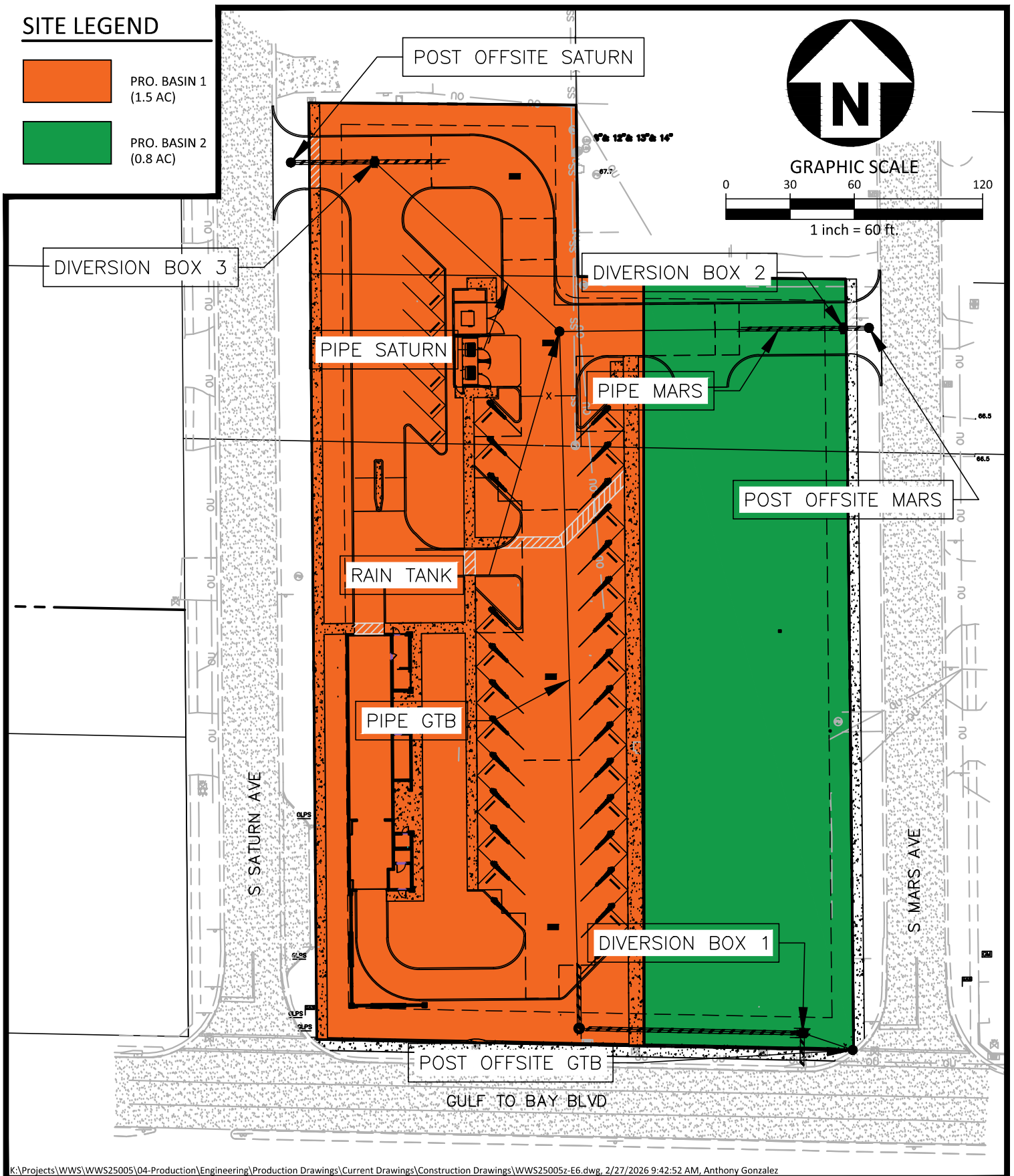
PRO. BASIN 2
(0.8 AC)



GRAPHIC SCALE



1 inch = 60 ft.



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407 S SATURN AVE
POST DEVELOPMENT MAP
407 S SATURN AVE
CLEARWATER, FL 33755

PLAN INFORMATION

PROJECT NO.	WWS25005
FILENAME	WWS25005z-E6.DWG
CHECKED BY	CP
DRAWN BY	AG
SCALE	1" = 60'
DATE	2.27.2026

PROJECT NAME: 407 S SATURN AVE
 PROJECT #: WWS25005
 FILE NAME: K:\Projects\WWS\WWS25005\03-Technical Data\Calcs-Reports\WWS25005-SITEDATA.xls

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SUMMARY OF GROUND COVER DATA-CLEARWATER

CONDITION	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)	OPEN WATER AREA (ac)	WETLAND AREA (ac)	TOTAL AREA (ac)	WEIGHTED RUNOFF COEFFICIENT	WEIGHTED CN	% DCIA
RUNOFF COEFFICIENT	0.95	0.2	1	0.7	---	---	---	---
CN	98	39	100	90	---	---	---	---
EX. BASIN 1	0.19	0.28	0.00	0.00	0.47	0.50	62.6	40%
EX. BASIN 2	0.34	0.51	0.00	0.00	0.85	0.50	62.6	40%
EX. BASIN 3	0.15	0.23	0.00	0.00	0.38	0.50	62.6	40%
EX. BASIN 4	0.15	0.22	0.00	0.00	0.36	0.50	62.6	40%
EX. BASIN 5	0.09	0.14	0.00	0.00	0.23	0.50	62.6	40%
PRO. BASIN 1	0.99	0.51	0.00	0.00	1.50	0.70	78.0	66%
PRO. BASIN 2	0.68	0.12	0.00	0.00	0.80	0.84	89.1	85%

EX. BASINS	0.92	1.38	0.00	0.00	2.30	0.50	62.6	40%
PRO. BASINS	1.67	0.63	0.00	0.00	2.30	0.74	81.9	73%

Note:
Per City of Clearwater Stormwater Drainage Criteria Manual, the existing runoff coefficients are limited to no more than 0.50 for redevelopment projects.

PROJECT NAME: 407 S SATURN AVE
 PROJECT #: WWS25005
 FILE NAME: K:\Projects\WWS\WWS25005\03-Technical Data\Calcs-Reports\WWS25005-SITEDATA.xls

27-Feb-26
 09:51 AM

SUMMARY OF GROUND COVER DATA

CONDITION	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)	OPEN WATER AREA (ac)	WETLAND AREA (ac)	TOTAL AREA (ac)	WEIGHTED RUNOFF COEFFICIENT	WEIGHTED CN	% DCIA
RUNOFF COEFFICIENT	0.95	0.2	1	0.7	---	---	---	---
CN	98	39	100	90	---	---	---	---
EX. BASIN 1	0.46	0.02	0.00	0.00	0.47	0.92	95.9	96%
EX. BASIN 2	0.74	0.11	0.00	0.00	0.85	0.85	90.4	87%
EX. BASIN 3	0.23	0.15	0.00	0.00	0.38	0.66	74.9	61%
EX. BASIN 4	0.17	0.20	0.00	0.00	0.36	0.55	66.2	46%
EX. BASIN 5	0.13	0.11	0.00	0.00	0.23	0.61	71.0	54%
PRO. BASIN 1	0.99	0.51	0.00	0.00	1.50	0.70	78.0	66%
PRO. BASIN 2	0.68	0.12	0.00	0.00	0.80	0.84	89.1	85%

CONDITION	IMPERVIOUS AREA (ac)	PERVIOUS AREA (ac)	OPEN WATER AREA (ac)	WETLAND AREA (ac)	TOTAL AREA (ac)	WEIGHTED RUNOFF COEFFICIENT	WEIGHTED CN	% DCIA
RUNOFF COEFFICIENT	0.95	0.2	1	0.7	---	---	---	---
CN	98	39	100	90	---	---	---	---
EX. BASINS	1.72	0.58	0.00	0.00	2.30	0.76	83.2	75%
PRO. BASINS	1.67	0.63	0.00	0.00	2.30	0.74	81.9	73%



407 S SATURN AVE
AVID PROJECT NO. WWS25005

DATE: 2.25.2026

TIME OF CONCENTRATION CALCULATION - EX. BASIN 1

Predeveloped Time of Concentration

Overland Flow

Roughness Coefficient	n= 0.011	Manning's n (Table 3-1 TR-55 Method)
Flow Length	L= 100 ft	
2-yr Rainfall	I= 4.5 in	
High Elev	68.1 ft	
Low Elev	67.9 ft	
Land Slope	s= 0.002 ft/ft	
Travel Time	T ₁ = 2.5 min	$T_1 = .007 * (nL)^{0.8} / (P^{0.5} * S^{0.4})$

Shallow Concentrated Flow

Flow Length	L= 157 ft	
High Elev	67.9 ft	
Low Elev	67.7 ft	
Watercourse Slope	s= 0.001 ft/ft	
Velocity	v= 0.6 ft/s	Unpaved (Figure 3-1 TR-55 Method)
Travel Time	T ₁ = 4.6 min	$T_2 = L / 60 * v$

Main Channel Flow

Cross Sectional Area	A= 0 ft ²	
Wetted Perimeter	P= 0.00 ft	
Hydraulic Radius	R= 0.00 ft	
Channel Slope	s= 0 ft/ft	
Roughness Coefficient	n= 0	Manning's n
Computed Velocity	v= 0.000 ft/s	Manning's Equation ($V = 1.49 * (r^{2/3}) * (s^{1/2}) / n$)
Flow Length	L= 0 ft	
Travel Time	T ₃ = 0.0 min	$T_3 = L / v$

Time of Concentration

$$T_c = T_1 + T_2 + T_3 = 7.1 \text{ min} \quad \mathbf{10 \text{ MINUTE MINIMUM}}$$

NOTE:

From SCS Lag Equation from TR-55 Method.



407 S SATURN AVE
AVID PROJECT NO. WWS25005

DATE: 2.25.2026

TIME OF CONCENTRATION CALCULATION - EX. BASIN 2

Predeveloped Time of Concentration

Overland Flow

Roughness Coefficient	n= 0.011	Manning's n (Table 3-1 TR-55 Method)
Flow Length	L= 100 ft	
2-yr Rainfall	I= 4.5 in	
High Elev	68.1 ft	
Low Elev	67.0 ft	
Land Slope	s= 0.011 ft/ft	
Travel Time	T ₁ = 1.3 min	T ₁ = .007 *(nL) ^{0.8} / (P ^{0.5} * S ^{0.4})

Shallow Concentrated Flow

Flow Length	L= 83 ft	
High Elev	67.0 ft	
Low Elev	66.3 ft	
Watercourse Slope	s= 0.009 ft/ft	
Velocity	v= 1.5 ft/s	Unpaved (Figure 3-1 TR-55 Method)
Travel Time	T ₁ = 0.9 min	T ₂ =L/60*v

Main Channel Flow

Cross Sectional Area	A= 0 ft ²	
Wetted Perimeter	P= 0.00 ft	
Hydraulic Radius	R= 0.00 ft	
Channel Slope	s= 0 ft/ft	
Roughness Coefficient	n= 0	Manning's n
Computed Velocity	v= 0.000 ft/s	Manning's Equation (V=1.49*(r ^{2/3})*(s ^{1/2})/n)
Flow Length	L= 0 ft	
Travel Time	T ₃ = 0.0 min	T ₃ =L/v

Time of Concentration

$$T_c = T_1 + T_2 + T_3 = 2.2 \text{ min} \quad \mathbf{10 \text{ MINUTE MINIMUM}}$$

NOTE:

From SCS Lag Equation from TR-55 Method.



DATE: 2.25.2026

TIME OF CONCENTRATION CALCULATION - EX. BASIN 3

Predeveloped Time of Concentration

Overland Flow

Roughness Coefficient	n=	0.24	Manning's n (Table 3-1 TR-55 Method)
Flow Length	L=	100 ft	
2-yr Rainfall	I=	4.5 in	
High Elev		71.0 ft	
Low Elev		67.5 ft	
Land Slope	s=	0.035 ft/ft	
Travel Time	T ₁ =	9.6 min	$T_1 = .007 * (nL)^{0.8} / (P^{0.5} * S^{0.4})$

Shallow Concentrated Flow

Flow Length	L=	82 ft	
High Elev		67.5 ft	
Low Elev		66.8 ft	
Watercourse Slope	s=	0.009 ft/ft	
Velocity	v=	1.5 ft/s	Unpaved (Figure 3-1 TR-55 Method)
Travel Time	T ₁ =	0.9 min	$T_2 = L / 60 * v$

Main Channel Flow

Cross Sectional Area	A=	0 ft ²	
Wetted Perimeter	P=	0.00 ft	
Hydraulic Radius	R=	0.00 ft	
Channel Slope	s=	0 ft/ft	
Roughness Coefficient	n=	0	Manning's n
Computed Velocity	v=	0.000 ft/s	Manning's Equation ($V = 1.49 * (r^{2/3}) * (s^{1/2}) / n$)
Flow Length	L=	0 ft	
Travel Time	T ₃ =	0.0 min	$T_3 = L / v$

Time of Concentration

$$T_c = T_1 + T_2 + T_3 = 10.5 \text{ min} \quad \mathbf{10 \text{ MINUTE MINIMUM}}$$

NOTE:

From SCS Lag Equation from TR-55 Method.



407 S SATURN AVE
AVID PROJECT NO. WWS25005

DATE: 2.25.2026

TIME OF CONCENTRATION CALCULATION - EX. BASIN 4

Predeveloped Time of Concentration

Overland Flow

Roughness Coefficient	n=	0.24	Manning's n (Table 3-1 TR-55 Method)
Flow Length	L=	100 ft	
2-yr Rainfall	I=	4.5 in	
High Elev		68.1 ft	
Low Elev		67.6 ft	
Land Slope	s=	0.005 ft/ft	
Travel Time	T ₁ =	21.7 min	$T_1 = .007 * (nL)^{0.8} / (P^{0.5} * S^{0.4})$

Shallow Concentrated Flow

Flow Length	L=	55 ft	
High Elev		67.6 ft	
Low Elev		65.7 ft	
Watercourse Slope	s=	0.035 ft/ft	
Velocity	v=	3.0 ft/s	Unpaved (Figure 3-1 TR-55 Method)
Travel Time	T ₁ =	0.3 min	$T_2 = L / 60 * v$

Main Channel Flow

Cross Sectional Area	A=	0 ft ²	
Wetted Perimeter	P=	0.00 ft	
Hydraulic Radius	R=	0.00 ft	
Channel Slope	s=	0 ft/ft	
Roughness Coefficient	n=	0	Manning's n
Computed Velocity	v=	0.000 ft/s	Manning's Equation ($V = 1.49 * (r^{2/3}) * (s^{1/2}) / n$)
Flow Length	L=	0 ft	
Travel Time	T ₃ =	0.0 min	$T_3 = L / v$

Time of Concentration

$$T_c = T_1 + T_2 + T_3 = \mathbf{22.0 \text{ min}} \quad \mathbf{10 \text{ MINUTE MINIMUM}}$$

NOTE:

From SCS Lag Equation from TR-55 Method.



407 S SATURN AVE
AVID PROJECT NO. WWS25005

DATE: 2.25.2026

TIME OF CONCENTRATION CALCULATION - EX. BASIN 5

Predeveloped Time of Concentration

Overland Flow

Roughness Coefficient	n= 0.24	Manning's n (Table 3-1 TR-55 Method)
Flow Length	L= 97 ft	
2-yr Rainfall	I= 4.5 in	
High Elev	71.0 ft	
Low Elev	67.4 ft	
Land Slope	s= 0.037 ft/ft	
Travel Time	T ₁ = 9.2 min	T ₁ = .007 *(nL) ^{0.8} / (P ^{0.5} * S ^{0.4})

Shallow Concentrated Flow

Flow Length	L= 0 ft	
High Elev	67.4 ft	
Low Elev	67.7 ft	
Watercourse Slope	s= ##### ft/ft	
Velocity	v= ##### ft/s	Unpaved (Figure 3-1 TR-55 Method)
Travel Time	T ₁ = 0.0 min	T ₂ =L/60*v

Main Channel Flow

Cross Sectional Area	A= 0 ft ²	
Wetted Perimeter	P= 0.00 ft	
Hydraulic Radius	R= 0.00 ft	
Channel Slope	s= 0 ft/ft	
Roughness Coefficient	n= 0	Manning's n
Computed Velocity	v= 0.000 ft/s	Manning's Equation (V=1.49*(r ^{2/3})*(s ^{1/2})/n)
Flow Length	L= 0 ft	
Travel Time	T ₃ = 0.0 min	T ₃ =L/v

Time of Concentration

$$T_c = T_1 + T_2 + T_3 = 9.2 \text{ min} \quad \mathbf{10 \text{ MINUTE MINIMUM}}$$

NOTE:

From SCS Lag Equation from TR-55 Method.

PROJECT: 407 S SATURN AVE

27-Feb-26

PROJECT #: WWS25005

10:04 AM

FILE NAME: K:\Projects\WWS\WWS25005\03-Technical Data\Calcs-Reports\WWS25005-SITEDATA.xls

Stage - Storage Calculations

Elevation (ft NAVD)	Area (sq ft)	Area (acres)	Incremental Volume (ac-ft)	Cumulative Volume (ac-ft)
63.55	20845	0.479		0.000
64.34	20845	0.479	0.378	0.378
65.13	20845	0.479	0.378	0.756
65.92	20845	0.479	0.378	1.134
66.71	20845	0.479	0.378	1.512
67.50	20845	0.479	0.378	1.890
68.00	0	0.000	0.000	1.890
69.00	0	0.000	0.000	1.890

CONTRIBUTING AREA	(ac)	2.30
DEPTH OF TREATMENT	(in)	2.65
WATER QUALITY VOLUME	(ac-ft) (cu-ft)	0.507 22080
WATER QUALITY ELEVATION	(ft)	64.61

Aquifer data per 12/31/2025 Geotechnical Analysis provided by PACSON.:

	<u>Vault</u>	
AVG GROUND ELEV =	68.05	ft
DEPTH TO CONFINING LAYER =	8.00	ft
ELEV OF CONFINING LAYER =	60.05	ft NAVD
DEPTH TO SHGW =	6.00	ft
ELEV OF SHGW =	62.05	ft NAVD
VERT PERMEABILITY =	10.60	ft/day
HORIZ PERMEABILITY =	21.20	ft/day
POROSITY =	25%	

PROJECT: 407 S SATURN AVE
PROJECT #: WWS25005
FILE NAME:

27-Feb-26
10:05 AM

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COMPARISON OF PRE & POST FLOW RATES TO SATURN AVE

STORM	SATURN AVE			RainTank Vault Max Stage (ft)
	PRE (cfs)	POST (cfs)	Change (cfs)	
SWFWMD 24-YR 24-HR	0.77	0	-0.77	65.57
SWFWMD 50-YR 24-HR	0.92	0	-0.92	65.82
SWFWMD 100-YR 24-HR		0		66.32

Weir for the Post Off-site Saturn node is set at the elevation of the road (67.4 ft)

COMPARISON OF PRE & POST FLOW RATES TO MARS AVE

STORM	MARS AVE			RainTank Vault Max Stage (ft)
	PRE (cfs)	POST (cfs)	Change (cfs)	
SWFWMD 24-YR 24-HR	3.78	0	-3.78	65.57
SWFWMD 50-YR 24-HR	4.51	0	-4.51	65.82
SWFWMD 100-YR 24-HR		0.52		66.32

Weir for Post Off-Site Mars is set at the elevation of the road (66.28 ft)

PROJECT: 407 S SATURN AVE
 PROJECT #: WWS25005
 FILE NAME: K:\Projects\WWS\WWS25005\03-Technical Data\Calcs-Reports\WWS25005-SITEDATA.xls

27-Feb-26
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COMPARISON OF PRE & POST FLOW RATES TO GULF TO BAY BLVD

STORM	GULF TO BAY BLVD			RainTank Vault Max Stage (ft)
	PRE (cfs)	POST (cfs)	Change (cfs)	
003-Yr 01-Hr	0.09	0	-0.09	64.51
003-Yr 02-Hr	0.09	0	-0.09	64.55
003-Yr 04-Hr	0.13	0	-0.13	64.62
003-Yr 08-Hr	0.13	0	-0.13	64.64
003-Yr 24-Hr	0.06	0	-0.06	64.65
003-Yr 72-Hr	0.08	0	-0.08	64.7
005-Yr 01-Hr	0.12	0	-0.12	64.51
005-Yr 02-Hr	0.13	0	-0.13	64.63
005-Yr 04-Hr	0.17	0	-0.17	64.73
005-Yr 08-Hr	0.18	0	-0.18	64.78
005-Yr 24-Hr	0.08	0	-0.08	64.84
005-Yr 72-Hr	0.1	0	-0.1	64.94
010-Yr 01-Hr	0.17	0	-0.17	64.58
010-Yr 02-Hr	0.18	0	-0.18	64.74
010-Yr 04-Hr	0.22	0	-0.22	64.89
010-Yr 08-Hr	0.26	0	-0.26	64.98
010-Yr 24-Hr	0.12	0	-0.12	65.14
010-Yr 72-Hr	0.13	0.01	-0.12	65.32
025-Yr 01-Hr	0.26	0	-0.26	64.7
025-Yr 02-Hr	0.26	0	-0.26	64.91
025-Yr 04-Hr	0.32	0	-0.32	65.13
025-Yr 08-Hr	0.4	0	-0.4	65.31
025-Yr 24-Hr	0.19	0.05	-0.14	65.65
025-Yr 72-Hr	0.19	0.07	-0.12	65.89
050-Yr 01-Hr	0.34	0	-0.34	64.81
050-Yr 02-Hr	0.34	0	-0.34	65.05
050-Yr 04-Hr	0.41	0	-0.41	65.33
050-Yr 08-Hr	0.52	0.04	-0.48	65.61
050-Yr 24-Hr	0.26	0.08	-0.18	66.14
050-Yr 72-Hr	0.23	0.09	-0.14	66.39
100-Yr 01-Hr	0.42	0	-0.42	64.92
100-Yr 02-Hr	0.43	0	-0.43	65.19
100-Yr 04-Hr	0.51	0.02	-0.49	65.55
100-Yr 08-Hr	0.67	0.07	-0.6	65.95
100-Yr 24-Hr	0.34	0.09	-0.25	66.51
100-Yr 72-Hr	0.29	0.1	-0.19	66.63
SWFWMD 24-YR 24-HR	0.77	0.04	-0.73	65.58
SWFWMD 50-YR 24-HR	0.92	0.06	-0.86	65.83
SWFWMD 100-YR 24-HR		0.12		66.32

All Post-condition FDOT 100yr storm flow rates are less than or equal to the maximum
 Pre-condition FDOT 3yr storm flow rate
 Pre 3yr-8hr = 0.13 cfs
 Post 100yr-72hr = 0.1 cfs

Complete Report (not including cost) Ver 5.3.2

Project: 407 S Saturn Ave
Date: 2/25/2026 3:54:34 PM

Site and Catchment Information

Analysis: Specified Removal Efficiency

Catchment Name	407 S Saturn
Rainfall Zone	Florida Zone 4
Annual Mean Rainfall	51.00

Pre-Condition Landuse Information

Landuse	Low-Intensity Commercial: TN=1.13 TP=0.188
Area (acres)	2.30
Rational Coefficient (0-1)	0.62
Non DCIA Curve Number	39.00
DCIA Percent (0-100)	75.00
Nitrogen EMC (mg/l)	1.130
Phosphorus EMC (mg/l)	0.188
Runoff Volume (ac-ft/yr)	6.059
Groundwater N (kg/yr)	0.000
Groundwater P (kg/yr)	0.000
Nitrogen Loading (kg/yr)	8.441
Phosphorus Loading (kg/yr)	1.404

Post-Condition Landuse Information

Landuse	High-Intensity Commercial: TN=2.40 TP=0.345
Area (acres)	2.30
Rational Coefficient (0-1)	0.60
Non DCIA Curve Number	39.00
DCIA Percent (0-100)	73.00

Wet Pond Area (ac)	0.00
Nitrogen EMC (mg/l)	2.400
Phosphorus EMC (mg/l)	0.345
Runoff Volume (ac-ft/yr)	5.898
Groundwater N (kg/yr)	0.000
Groundwater P (kg/yr)	0.000
Nitrogen Loading (kg/yr)	17.454
Phosphorus Loading (kg/yr)	2.509

Catchment Number: 1 Name: 407 S Saturn

Project: 407 S Saturn Ave

Date: 2/25/2026

Retention Design

Retention Depth (in) 2.650

Retention Volume (ac-ft) 0.508

Watershed Characteristics

Catchment Area (acres) 2.30

Contributing Area (acres) 2.300

Non-DCIA Curve Number 39.00

DCIA Percent 73.00

Rainfall Zone Florida Zone 4

Rainfall (in) 51.00

Surface Water Discharge

Required TN Treatment Efficiency (%) 95

Provided TN Treatment Efficiency (%) 95

Required TP Treatment Efficiency (%) 95

Provided TP Treatment Efficiency (%) 95

Media Mix Information

Type of Media Mix Not Specified

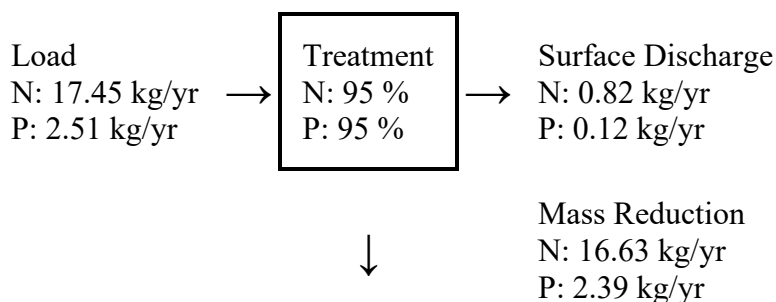
Media N Reduction (%)

Media P Reduction (%)

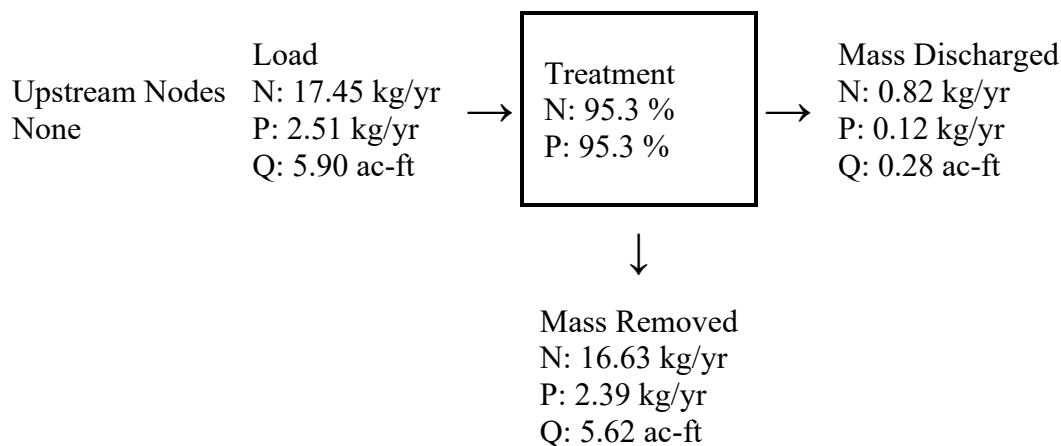
Groundwater Discharge (Stand-Alone)

Treatment Rate (MG/yr) 0.000
TN Mass Load (kg/yr) 16.629
TN Concentration (mg/L) 0.000
TP Mass Load (kg/yr) 2.390
TP Concentration (mg/L) 0.000

Load Diagram for Retention (stand-alone)



Load Diagram for Retention (As Used In Routing)



Summary Treatment Report Version: 5.3.2

Project: 407 S Saturn Ave

Analysis Type: Specified

Removal Efficiency

Date:2/25/2026

BMP Types:

Catchment 1 - (407 S
Saturn) Retention

Routing Summary

Catchment 1 Routed to Outlet

Based on % removal values to
the nearest percent

Total nitrogen target removal met? **Yes**

Total phosphorus target removal met? **Yes**

Summary Report

Nitrogen

Surface Water Discharge

Total N pre load	8.44 kg/yr	
Total N post load	17.45 kg/yr	
Target N load reduction	95 %	
Target N discharge load	.87 kg/yr	
Percent N load reduction	95 %	
Provided N discharge load	.82 kg/yr	1.82 lb/yr
Provided N load removed	16.63 kg/yr	36.67 lb/yr

Phosphorus

Surface Water Discharge

Total P pre load	1.404 kg/yr	
Total P post load	2.509 kg/yr	
Target P load reduction	95 %	
Target P discharge load	.125 kg/yr	
Percent P load reduction	95 %	
Provided P discharge load	.119 kg/yr	.26 lb/yr
Provided P load removed	2.39 kg/yr	5.271 lb/yr

Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]	Warning Stage [ft]
PROPOSED	SLUG	RAIN TANK	0.0000	64.61	67.50
PROPOSED	SLUG	RAIN TANK	0.2514	64.52	67.50
PROPOSED	SLUG	RAIN TANK	0.5004	64.41	67.50
PROPOSED	SLUG	RAIN TANK	0.7512	64.30	67.50
PROPOSED	SLUG	RAIN TANK	1.0001	64.25	67.50
PROPOSED	SLUG	RAIN TANK	1.2518	64.24	67.50
PROPOSED	SLUG	RAIN TANK	1.5031	64.23	67.50
PROPOSED	SLUG	RAIN TANK	1.7531	64.22	67.50
PROPOSED	SLUG	RAIN TANK	2.0031	64.22	67.50
PROPOSED	SLUG	RAIN TANK	2.2531	64.21	67.50
PROPOSED	SLUG	RAIN TANK	2.5031	64.20	67.50
PROPOSED	SLUG	RAIN TANK	2.7531	64.19	67.50
PROPOSED	SLUG	RAIN TANK	3.0031	64.18	67.50
PROPOSED	SLUG	RAIN TANK	3.2531	64.18	67.50
PROPOSED	SLUG	RAIN TANK	3.5031	64.17	67.50
PROPOSED	SLUG	RAIN TANK	3.7531	64.16	67.50
PROPOSED	SLUG	RAIN TANK	4.0031	64.15	67.50
PROPOSED	SLUG	RAIN TANK	4.2531	64.15	67.50
PROPOSED	SLUG	RAIN TANK	4.5031	64.14	67.50
PROPOSED	SLUG	RAIN TANK	4.7531	64.13	67.50
PROPOSED	SLUG	RAIN TANK	5.0031	64.13	67.50
PROPOSED	SLUG	RAIN TANK	5.2531	64.12	67.50
PROPOSED	SLUG	RAIN TANK	5.5031	64.11	67.50
PROPOSED	SLUG	RAIN TANK	5.7531	64.11	67.50
PROPOSED	SLUG	RAIN TANK	6.0031	64.10	67.50
PROPOSED	SLUG	RAIN TANK	6.2531	64.09	67.50
PROPOSED	SLUG	RAIN TANK	6.5031	64.09	67.50
PROPOSED	SLUG	RAIN TANK	6.7531	64.08	67.50
PROPOSED	SLUG	RAIN TANK	7.0031	64.08	67.50
PROPOSED	SLUG	RAIN TANK	7.2531	64.07	67.50
PROPOSED	SLUG	RAIN TANK	7.5031	64.07	67.50
PROPOSED	SLUG	RAIN TANK	7.7531	64.06	67.50
PROPOSED	SLUG	RAIN TANK	8.0031	64.05	67.50
PROPOSED	SLUG	RAIN TANK	8.2531	64.05	67.50
PROPOSED	SLUG	RAIN TANK	8.5031	64.04	67.50
PROPOSED	SLUG	RAIN TANK	8.7531	64.04	67.50
PROPOSED	SLUG	RAIN TANK	9.0031	64.03	67.50
PROPOSED	SLUG	RAIN TANK	9.2531	64.03	67.50
PROPOSED	SLUG	RAIN TANK	9.5031	64.02	67.50
PROPOSED	SLUG	RAIN TANK	9.7531	64.02	67.50
PROPOSED	SLUG	RAIN TANK	10.0031	64.01	67.50
PROPOSED	SLUG	RAIN TANK	10.2531	64.01	67.50

Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]	Warning Stage [ft]
PROPOSED	SLUG	RAIN TANK	10.5031	64.00	67.50
PROPOSED	SLUG	RAIN TANK	10.7531	64.00	67.50
PROPOSED	SLUG	RAIN TANK	11.0031	63.99	67.50
PROPOSED	SLUG	RAIN TANK	11.2531	63.99	67.50
PROPOSED	SLUG	RAIN TANK	11.5031	63.98	67.50
PROPOSED	SLUG	RAIN TANK	11.7531	63.98	67.50
PROPOSED	SLUG	RAIN TANK	12.0031	63.97	67.50
PROPOSED	SLUG	RAIN TANK	12.2531	63.97	67.50
PROPOSED	SLUG	RAIN TANK	12.5031	63.97	67.50
PROPOSED	SLUG	RAIN TANK	12.7531	63.96	67.50
PROPOSED	SLUG	RAIN TANK	13.0031	63.96	67.50
PROPOSED	SLUG	RAIN TANK	13.2531	63.95	67.50
PROPOSED	SLUG	RAIN TANK	13.5031	63.95	67.50
PROPOSED	SLUG	RAIN TANK	13.7531	63.94	67.50
PROPOSED	SLUG	RAIN TANK	14.0031	63.94	67.50
PROPOSED	SLUG	RAIN TANK	14.2531	63.94	67.50
PROPOSED	SLUG	RAIN TANK	14.5031	63.93	67.50
PROPOSED	SLUG	RAIN TANK	14.7531	63.93	67.50
PROPOSED	SLUG	RAIN TANK	15.0031	63.92	67.50
PROPOSED	SLUG	RAIN TANK	15.2531	63.92	67.50
PROPOSED	SLUG	RAIN TANK	15.5031	63.92	67.50
PROPOSED	SLUG	RAIN TANK	15.7531	63.91	67.50
PROPOSED	SLUG	RAIN TANK	16.0031	63.91	67.50
PROPOSED	SLUG	RAIN TANK	16.2531	63.91	67.50
PROPOSED	SLUG	RAIN TANK	16.5031	63.90	67.50
PROPOSED	SLUG	RAIN TANK	16.7531	63.90	67.50
PROPOSED	SLUG	RAIN TANK	17.0031	63.90	67.50
PROPOSED	SLUG	RAIN TANK	17.2531	63.89	67.50
PROPOSED	SLUG	RAIN TANK	17.5031	63.89	67.50
PROPOSED	SLUG	RAIN TANK	17.7531	63.89	67.50
PROPOSED	SLUG	RAIN TANK	18.0031	63.88	67.50
PROPOSED	SLUG	RAIN TANK	18.2531	63.88	67.50
PROPOSED	SLUG	RAIN TANK	18.5031	63.88	67.50
PROPOSED	SLUG	RAIN TANK	18.7531	63.87	67.50
PROPOSED	SLUG	RAIN TANK	19.0031	63.87	67.50
PROPOSED	SLUG	RAIN TANK	19.2531	63.87	67.50
PROPOSED	SLUG	RAIN TANK	19.5031	63.86	67.50
PROPOSED	SLUG	RAIN TANK	19.7531	63.86	67.50
PROPOSED	SLUG	RAIN TANK	20.0031	63.86	67.50
PROPOSED	SLUG	RAIN TANK	20.2531	63.85	67.50
PROPOSED	SLUG	RAIN TANK	20.5031	63.85	67.50
PROPOSED	SLUG	RAIN TANK	20.7531	63.85	67.50

Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]	Warning Stage [ft]
PROPOSED	SLUG	RAIN TANK	21.0031	63.85	67.50
PROPOSED	SLUG	RAIN TANK	21.2531	63.84	67.50
PROPOSED	SLUG	RAIN TANK	21.5031	63.84	67.50
PROPOSED	SLUG	RAIN TANK	21.7531	63.84	67.50
PROPOSED	SLUG	RAIN TANK	22.0031	63.83	67.50
PROPOSED	SLUG	RAIN TANK	22.2531	63.83	67.50
PROPOSED	SLUG	RAIN TANK	22.5031	63.83	67.50
PROPOSED	SLUG	RAIN TANK	22.7531	63.83	67.50
PROPOSED	SLUG	RAIN TANK	23.0031	63.82	67.50
PROPOSED	SLUG	RAIN TANK	23.2531	63.82	67.50
PROPOSED	SLUG	RAIN TANK	23.5031	63.82	67.50
PROPOSED	SLUG	RAIN TANK	23.7531	63.82	67.50
PROPOSED	SLUG	RAIN TANK	24.0031	63.81	67.50
PROPOSED	SLUG	RAIN TANK	24.2531	63.81	67.50
PROPOSED	SLUG	RAIN TANK	24.5031	63.81	67.50
PROPOSED	SLUG	RAIN TANK	24.7531	63.80	67.50
PROPOSED	SLUG	RAIN TANK	25.0031	63.80	67.50
PROPOSED	SLUG	RAIN TANK	25.2531	63.80	67.50
PROPOSED	SLUG	RAIN TANK	25.5031	63.80	67.50
PROPOSED	SLUG	RAIN TANK	25.7531	63.80	67.50
PROPOSED	SLUG	RAIN TANK	26.0031	63.79	67.50
PROPOSED	SLUG	RAIN TANK	26.2531	63.79	67.50
PROPOSED	SLUG	RAIN TANK	26.5031	63.79	67.50
PROPOSED	SLUG	RAIN TANK	26.7531	63.79	67.50
PROPOSED	SLUG	RAIN TANK	27.0031	63.78	67.50
PROPOSED	SLUG	RAIN TANK	27.2531	63.78	67.50
PROPOSED	SLUG	RAIN TANK	27.5031	63.78	67.50
PROPOSED	SLUG	RAIN TANK	27.7531	63.78	67.50
PROPOSED	SLUG	RAIN TANK	28.0031	63.77	67.50
PROPOSED	SLUG	RAIN TANK	28.2531	63.77	67.50
PROPOSED	SLUG	RAIN TANK	28.5031	63.77	67.50
PROPOSED	SLUG	RAIN TANK	28.7531	63.77	67.50
PROPOSED	SLUG	RAIN TANK	29.0031	63.77	67.50
PROPOSED	SLUG	RAIN TANK	29.2531	63.76	67.50
PROPOSED	SLUG	RAIN TANK	29.5031	63.76	67.50
PROPOSED	SLUG	RAIN TANK	29.7531	63.76	67.50
PROPOSED	SLUG	RAIN TANK	30.0031	63.76	67.50
PROPOSED	SLUG	RAIN TANK	30.2531	63.75	67.50
PROPOSED	SLUG	RAIN TANK	30.5031	63.75	67.50
PROPOSED	SLUG	RAIN TANK	30.7531	63.75	67.50
PROPOSED	SLUG	RAIN TANK	31.0031	63.75	67.50
PROPOSED	SLUG	RAIN TANK	31.2531	63.75	67.50

Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]	Warning Stage [ft]
PROPOSED	SLUG	RAIN TANK	31.5031	63.74	67.50
PROPOSED	SLUG	RAIN TANK	31.7531	63.74	67.50
PROPOSED	SLUG	RAIN TANK	32.0031	63.74	67.50
PROPOSED	SLUG	RAIN TANK	32.2531	63.74	67.50
PROPOSED	SLUG	RAIN TANK	32.5031	63.74	67.50
PROPOSED	SLUG	RAIN TANK	32.7531	63.73	67.50
PROPOSED	SLUG	RAIN TANK	33.0031	63.73	67.50
PROPOSED	SLUG	RAIN TANK	33.2531	63.73	67.50
PROPOSED	SLUG	RAIN TANK	33.5031	63.73	67.50
PROPOSED	SLUG	RAIN TANK	33.7531	63.73	67.50
PROPOSED	SLUG	RAIN TANK	34.0031	63.73	67.50
PROPOSED	SLUG	RAIN TANK	34.2531	63.72	67.50
PROPOSED	SLUG	RAIN TANK	34.5031	63.72	67.50
PROPOSED	SLUG	RAIN TANK	34.7531	63.72	67.50
PROPOSED	SLUG	RAIN TANK	35.0031	63.72	67.50
PROPOSED	SLUG	RAIN TANK	35.2531	63.72	67.50
PROPOSED	SLUG	RAIN TANK	35.5031	63.71	67.50
PROPOSED	SLUG	RAIN TANK	35.7531	63.71	67.50
PROPOSED	SLUG	RAIN TANK	36.0031	63.71	67.50
PROPOSED	SLUG	RAIN TANK	36.2531	63.71	67.50
PROPOSED	SLUG	RAIN TANK	36.5031	63.71	67.50
PROPOSED	SLUG	RAIN TANK	36.7531	63.71	67.50
PROPOSED	SLUG	RAIN TANK	37.0031	63.70	67.50
PROPOSED	SLUG	RAIN TANK	37.2531	63.70	67.50
PROPOSED	SLUG	RAIN TANK	37.5031	63.70	67.50
PROPOSED	SLUG	RAIN TANK	37.7531	63.70	67.50
PROPOSED	SLUG	RAIN TANK	38.0031	63.70	67.50
PROPOSED	SLUG	RAIN TANK	38.2531	63.70	67.50
PROPOSED	SLUG	RAIN TANK	38.5031	63.69	67.50
PROPOSED	SLUG	RAIN TANK	38.7531	63.69	67.50
PROPOSED	SLUG	RAIN TANK	39.0031	63.69	67.50
PROPOSED	SLUG	RAIN TANK	39.2531	63.69	67.50
PROPOSED	SLUG	RAIN TANK	39.5031	63.69	67.50
PROPOSED	SLUG	RAIN TANK	39.7531	63.69	67.50
PROPOSED	SLUG	RAIN TANK	40.0031	63.68	67.50
PROPOSED	SLUG	RAIN TANK	40.2531	63.68	67.50
PROPOSED	SLUG	RAIN TANK	40.5031	63.68	67.50
PROPOSED	SLUG	RAIN TANK	40.7531	63.68	67.50
PROPOSED	SLUG	RAIN TANK	41.0031	63.68	67.50
PROPOSED	SLUG	RAIN TANK	41.2531	63.68	67.50
PROPOSED	SLUG	RAIN TANK	41.5031	63.67	67.50
PROPOSED	SLUG	RAIN TANK	41.7531	63.67	67.50

Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]	Warning Stage [ft]
PROPOSED	SLUG	RAIN TANK	42.0031	63.67	67.50
PROPOSED	SLUG	RAIN TANK	42.2531	63.67	67.50
PROPOSED	SLUG	RAIN TANK	42.5031	63.67	67.50
PROPOSED	SLUG	RAIN TANK	42.7531	63.67	67.50
PROPOSED	SLUG	RAIN TANK	43.0031	63.67	67.50
PROPOSED	SLUG	RAIN TANK	43.2531	63.66	67.50
PROPOSED	SLUG	RAIN TANK	43.5031	63.66	67.50
PROPOSED	SLUG	RAIN TANK	43.7531	63.66	67.50
PROPOSED	SLUG	RAIN TANK	44.0031	63.66	67.50
PROPOSED	SLUG	RAIN TANK	44.2531	63.66	67.50
PROPOSED	SLUG	RAIN TANK	44.5031	63.66	67.50
PROPOSED	SLUG	RAIN TANK	44.7531	63.66	67.50
PROPOSED	SLUG	RAIN TANK	45.0031	63.65	67.50
PROPOSED	SLUG	RAIN TANK	45.2531	63.65	67.50
PROPOSED	SLUG	RAIN TANK	45.5031	63.65	67.50
PROPOSED	SLUG	RAIN TANK	45.7531	63.65	67.50
PROPOSED	SLUG	RAIN TANK	46.0031	63.65	67.50
PROPOSED	SLUG	RAIN TANK	46.2531	63.65	67.50
PROPOSED	SLUG	RAIN TANK	46.5031	63.65	67.50
PROPOSED	SLUG	RAIN TANK	46.7531	63.64	67.50
PROPOSED	SLUG	RAIN TANK	47.0031	63.64	67.50
PROPOSED	SLUG	RAIN TANK	47.2531	63.64	67.50
PROPOSED	SLUG	RAIN TANK	47.5031	63.64	67.50
PROPOSED	SLUG	RAIN TANK	47.7531	63.64	67.50
PROPOSED	SLUG	RAIN TANK	48.0031	63.64	67.50
PROPOSED	SLUG	RAIN TANK	48.2531	63.64	67.50
PROPOSED	SLUG	RAIN TANK	48.5031	63.64	67.50
PROPOSED	SLUG	RAIN TANK	48.7531	63.63	67.50
PROPOSED	SLUG	RAIN TANK	49.0031	63.63	67.50
PROPOSED	SLUG	RAIN TANK	49.2531	63.63	67.50
PROPOSED	SLUG	RAIN TANK	49.5031	63.63	67.50
PROPOSED	SLUG	RAIN TANK	49.7531	63.63	67.50
PROPOSED	SLUG	RAIN TANK	50.0031	63.63	67.50
PROPOSED	SLUG	RAIN TANK	50.2531	63.63	67.50
PROPOSED	SLUG	RAIN TANK	50.5031	63.62	67.50
PROPOSED	SLUG	RAIN TANK	50.7531	63.62	67.50
PROPOSED	SLUG	RAIN TANK	51.0031	63.62	67.50
PROPOSED	SLUG	RAIN TANK	51.2531	63.62	67.50
PROPOSED	SLUG	RAIN TANK	51.5031	63.62	67.50
PROPOSED	SLUG	RAIN TANK	51.7531	63.62	67.50
PROPOSED	SLUG	RAIN TANK	52.0031	63.62	67.50
PROPOSED	SLUG	RAIN TANK	52.2531	63.62	67.50

Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]	Warning Stage [ft]
PROPOSED	SLUG	RAIN TANK	52.5031	63.61	67.50
PROPOSED	SLUG	RAIN TANK	52.7531	63.61	67.50
PROPOSED	SLUG	RAIN TANK	53.0031	63.61	67.50
PROPOSED	SLUG	RAIN TANK	53.2531	63.61	67.50
PROPOSED	SLUG	RAIN TANK	53.5031	63.61	67.50
PROPOSED	SLUG	RAIN TANK	53.7531	63.61	67.50
PROPOSED	SLUG	RAIN TANK	54.0031	63.61	67.50
PROPOSED	SLUG	RAIN TANK	54.2531	63.61	67.50
PROPOSED	SLUG	RAIN TANK	54.5031	63.61	67.50
PROPOSED	SLUG	RAIN TANK	54.7531	63.60	67.50
PROPOSED	SLUG	RAIN TANK	55.0031	63.60	67.50
PROPOSED	SLUG	RAIN TANK	55.2531	63.60	67.50
PROPOSED	SLUG	RAIN TANK	55.5031	63.60	67.50
PROPOSED	SLUG	RAIN TANK	55.7531	63.60	67.50
PROPOSED	SLUG	RAIN TANK	56.0031	63.60	67.50
PROPOSED	SLUG	RAIN TANK	56.2531	63.60	67.50
PROPOSED	SLUG	RAIN TANK	56.5031	63.60	67.50
PROPOSED	SLUG	RAIN TANK	56.7531	63.59	67.50
PROPOSED	SLUG	RAIN TANK	57.0031	63.59	67.50
PROPOSED	SLUG	RAIN TANK	57.2531	63.59	67.50
PROPOSED	SLUG	RAIN TANK	57.5031	63.59	67.50
PROPOSED	SLUG	RAIN TANK	57.7531	63.59	67.50
PROPOSED	SLUG	RAIN TANK	58.0031	63.59	67.50
PROPOSED	SLUG	RAIN TANK	58.2531	63.59	67.50
PROPOSED	SLUG	RAIN TANK	58.5031	63.59	67.50
PROPOSED	SLUG	RAIN TANK	58.7531	63.59	67.50
PROPOSED	SLUG	RAIN TANK	59.0031	63.58	67.50
PROPOSED	SLUG	RAIN TANK	59.2531	63.58	67.50
PROPOSED	SLUG	RAIN TANK	59.5031	63.58	67.50
PROPOSED	SLUG	RAIN TANK	59.7531	63.58	67.50
PROPOSED	SLUG	RAIN TANK	60.0031	63.58	67.50
PROPOSED	SLUG	RAIN TANK	60.2531	63.58	67.50
PROPOSED	SLUG	RAIN TANK	60.5031	63.58	67.50
PROPOSED	SLUG	RAIN TANK	60.7531	63.58	67.50
PROPOSED	SLUG	RAIN TANK	61.0031	63.58	67.50
PROPOSED	SLUG	RAIN TANK	61.2531	63.57	67.50
PROPOSED	SLUG	RAIN TANK	61.5031	63.57	67.50
PROPOSED	SLUG	RAIN TANK	61.7531	63.57	67.50
PROPOSED	SLUG	RAIN TANK	62.0031	63.57	67.50
PROPOSED	SLUG	RAIN TANK	62.2531	63.57	67.50
PROPOSED	SLUG	RAIN TANK	62.5031	63.57	67.50
PROPOSED	SLUG	RAIN TANK	62.7531	63.57	67.50

Scenario	Sim	Node Name	Relative Time [hrs]	Stage [ft]	Warning Stage [ft]
PROPOSED	SLUG	RAIN TANK	63.0031	63.57	67.50
PROPOSED	SLUG	RAIN TANK	63.2531	63.57	67.50
PROPOSED	SLUG	RAIN TANK	63.5031	63.57	67.50
PROPOSED	SLUG	RAIN TANK	63.7531	63.56	67.50
PROPOSED	SLUG	RAIN TANK	64.0031	63.56	67.50
PROPOSED	SLUG	RAIN TANK	64.2531	63.56	67.50
PROPOSED	SLUG	RAIN TANK	64.5031	63.56	67.50
PROPOSED	SLUG	RAIN TANK	64.7531	63.56	67.50
PROPOSED	SLUG	RAIN TANK	65.0031	63.56	67.50
PROPOSED	SLUG	RAIN TANK	65.2531	63.56	67.50
PROPOSED	SLUG	RAIN TANK	65.5031	63.56	67.50
PROPOSED	SLUG	RAIN TANK	65.7531	63.56	67.50
PROPOSED	SLUG	RAIN TANK	66.0031	63.56	67.50
PROPOSED	SLUG	RAIN TANK	66.2531	63.55	67.50
PROPOSED	SLUG	RAIN TANK	66.5031	63.55	67.50
PROPOSED	SLUG	RAIN TANK	66.7531	63.55	67.50
PROPOSED	SLUG	RAIN TANK	67.0031	63.55	67.50
PROPOSED	SLUG	RAIN TANK	67.2531	63.55	67.50
PROPOSED	SLUG	RAIN TANK	67.5031	63.55	67.50
PROPOSED	SLUG	RAIN TANK	67.7531	63.55	67.50
PROPOSED	SLUG	RAIN TANK	68.0031	63.55	67.50
PROPOSED	SLUG	RAIN TANK	68.2531	63.55	67.50
PROPOSED	SLUG	RAIN TANK	68.5031	63.55	67.50
PROPOSED	SLUG	RAIN TANK	68.7531	63.55	67.50
PROPOSED	SLUG	RAIN TANK	69.0031	63.55	67.50
PROPOSED	SLUG	RAIN TANK	69.2531	63.55	67.50
PROPOSED	SLUG	RAIN TANK	69.5031	63.55	67.50
PROPOSED	SLUG	RAIN TANK	69.7531	63.55	67.50
PROPOSED	SLUG	RAIN TANK	70.0031	63.55	67.50
PROPOSED	SLUG	RAIN TANK	70.2531	63.55	67.50
PROPOSED	SLUG	RAIN TANK	70.5031	63.55	67.50
PROPOSED	SLUG	RAIN TANK	70.7531	63.55	67.50
PROPOSED	SLUG	RAIN TANK	71.0031	63.55	67.50
PROPOSED	SLUG	RAIN TANK	71.2531	63.55	67.50
PROPOSED	SLUG	RAIN TANK	71.5031	63.55	67.50
PROPOSED	SLUG	RAIN TANK	71.7531	63.55	67.50
PROPOSED	SLUG	RAIN TANK	72.0031	63.55	67.50

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

Figure D-5
Twenty-Four-Hour Twenty-Five-Year Return Period
Rainfall Map

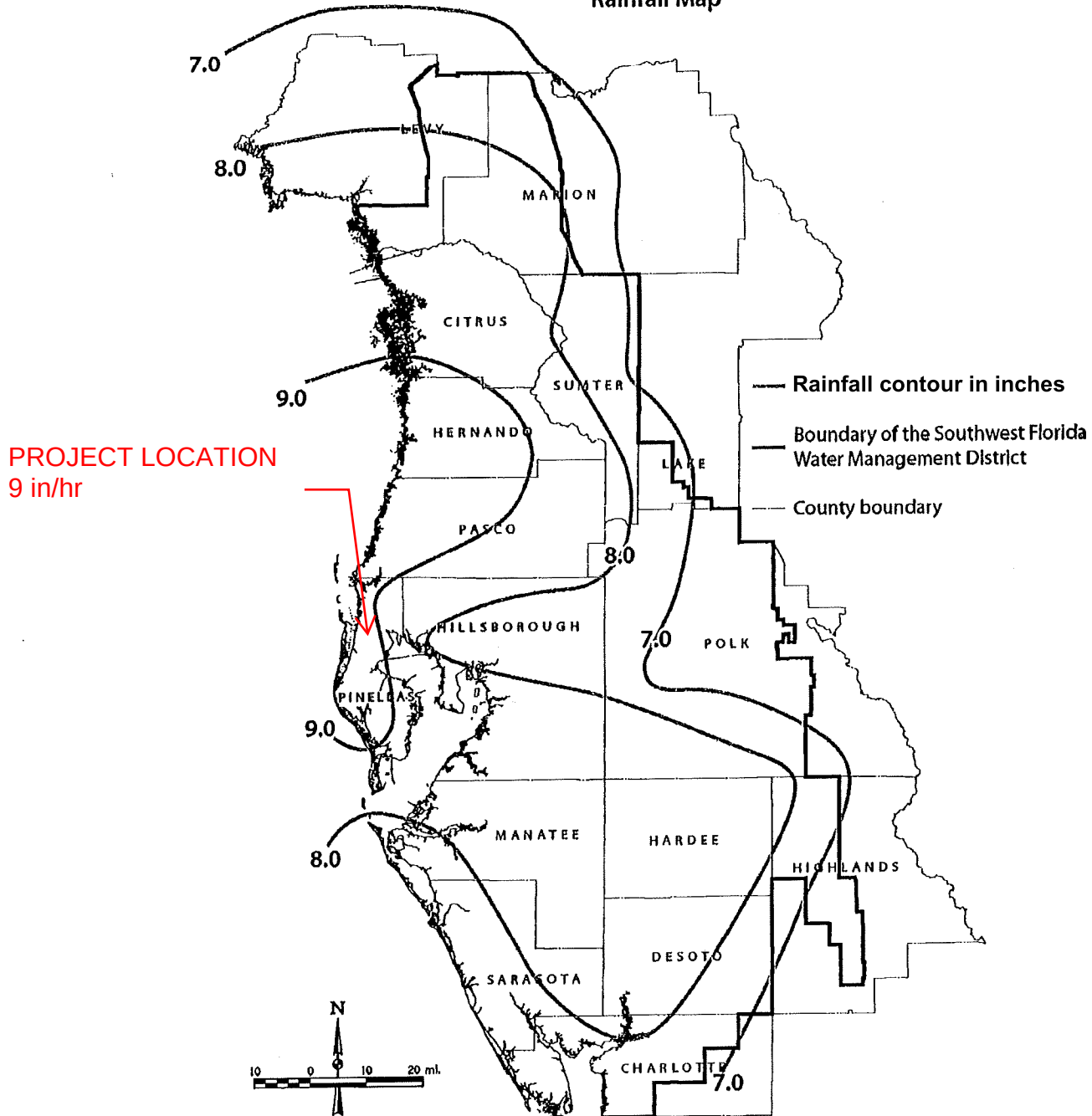
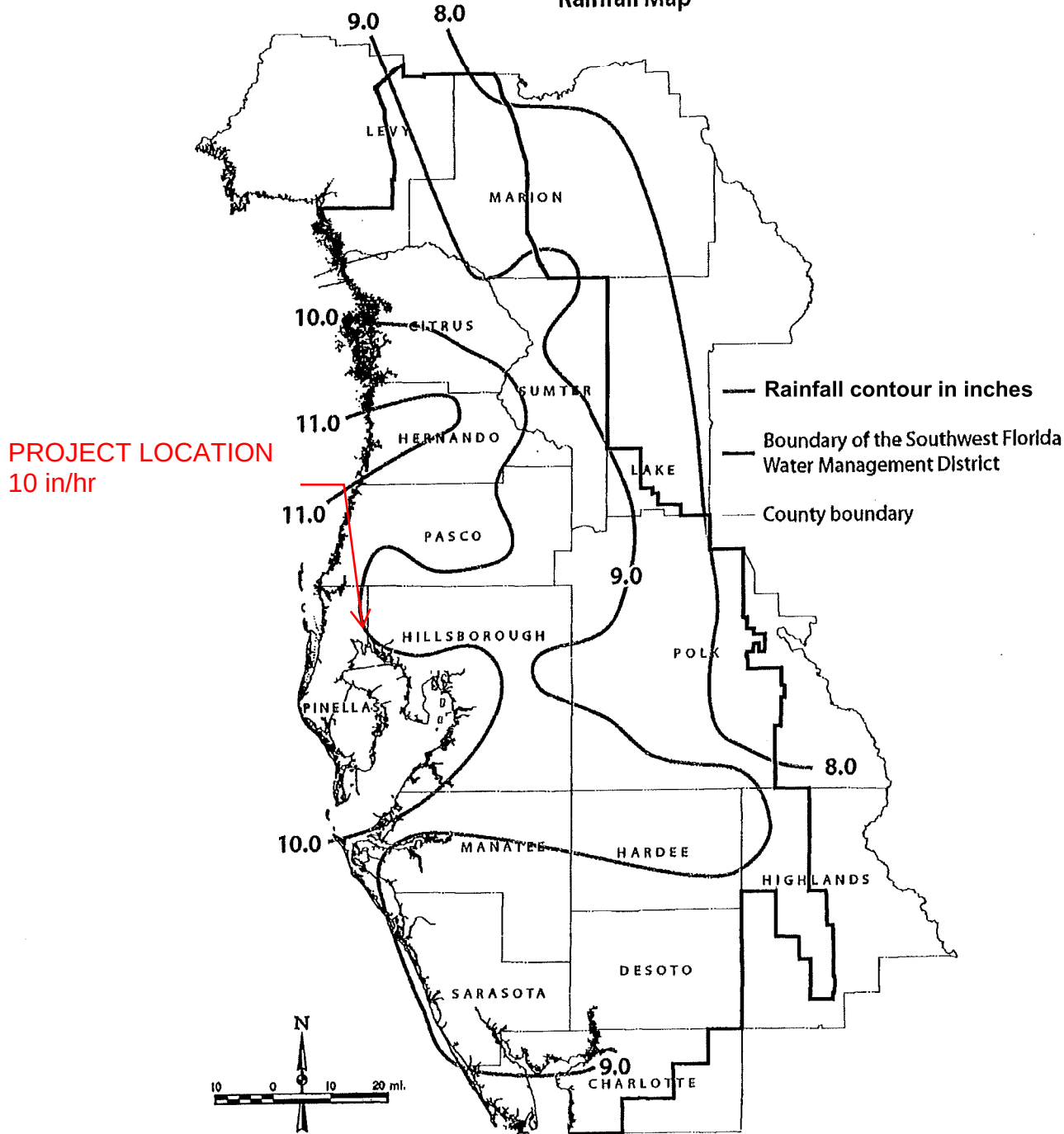
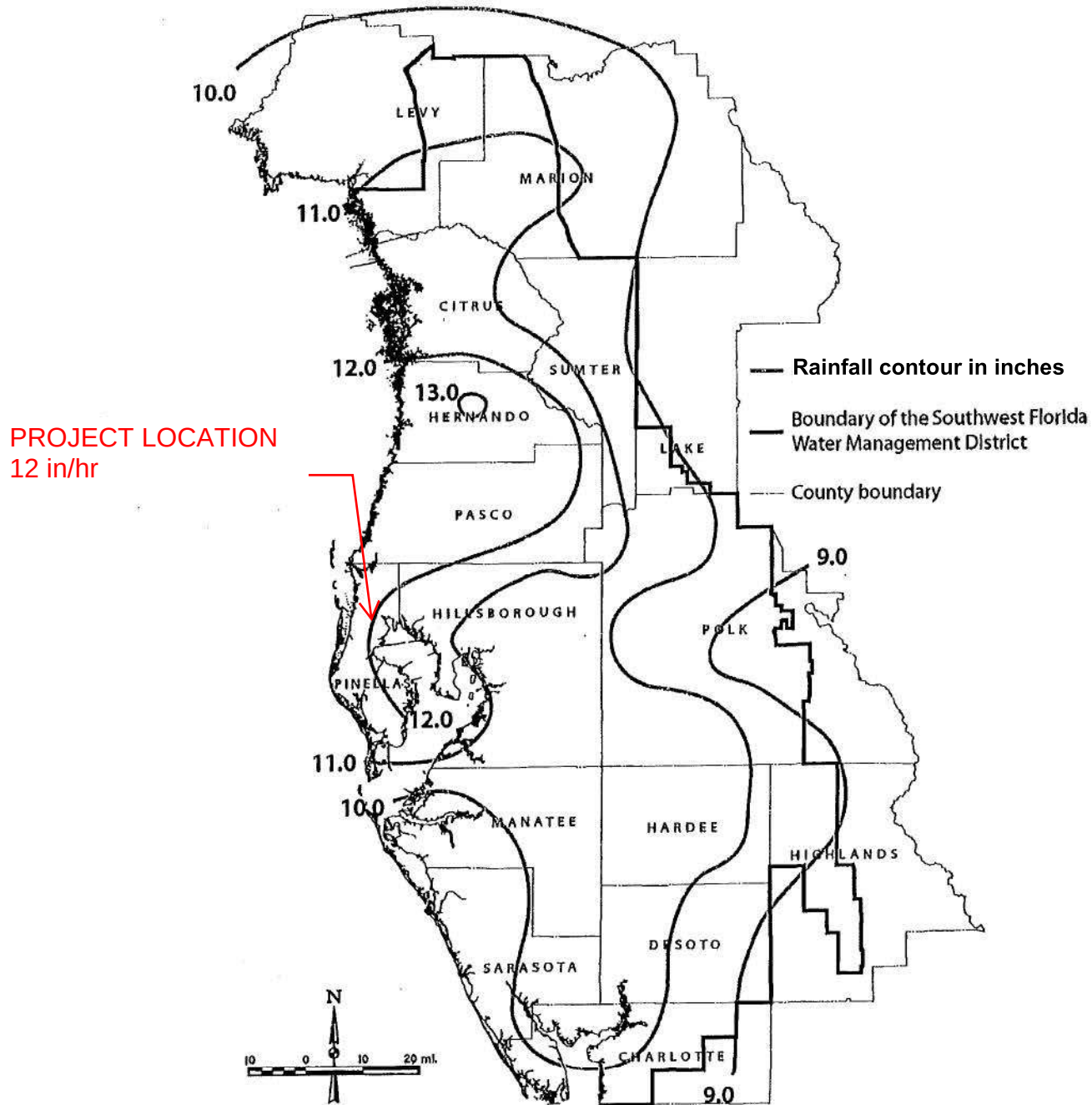


Figure D-6
Twenty-Four-Hour Fifty-Year Return Period
Rainfall Map



SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

Figure D-7
Twenty-Four-Hour One-Hundred-Year Return Period
Rainfall Map



D-11



NOAA Atlas 14, Volume 9, Version 2
Location name: Clearwater, Florida, USA*
Latitude: 27.9611°, Longitude: -82.7644°
Elevation: 68 ft**
* source: ESRI Maps
** source: USGS



POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Deborah Martin, Sandra Pavlovic, Ishani Roy, Michael St. Laurent, Carl Trypaluk, Dale Unruh, Michael Yekta, Geoffrey Bonnin

NOAA, National Weather Service, Silver Spring, Maryland

[PF tabular](#) | [PF graphical](#) | [Maps & aerals](#)

PF tabular

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches) ¹										
Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	0.557 (0.448-0.704)	0.626 (0.504-0.793)	0.736 (0.590-0.935)	0.822 (0.655-1.05)	0.934 (0.718-1.22)	1.02 (0.765-1.36)	1.09 (0.796-1.50)	1.17 (0.817-1.66)	1.26 (0.848-1.85)	1.32 (0.872-1.99)
10-min	0.815 (0.656-1.03)	0.917 (0.737-1.16)	1.08 (0.863-1.37)	1.20 (0.959-1.54)	1.37 (1.05-1.79)	1.49 (1.12-1.99)	1.60 (1.17-2.20)	1.71 (1.20-2.43)	1.84 (1.24-2.70)	1.93 (1.28-2.91)
15-min	0.994 (0.800-1.26)	1.12 (0.899-1.42)	1.31 (1.05-1.67)	1.47 (1.17-1.88)	1.67 (1.28-2.19)	1.81 (1.36-2.42)	1.95 (1.42-2.68)	2.08 (1.46-2.96)	2.24 (1.51-3.30)	2.36 (1.56-3.55)
30-min	1.54 (1.24-1.94)	1.69 (1.36-2.14)	1.94 (1.55-2.46)	2.16 (1.72-2.76)	2.47 (1.91-3.27)	2.72 (2.06-3.66)	2.97 (2.18-4.12)	3.24 (2.28-4.64)	3.60 (2.44-5.33)	3.88 (2.57-5.85)
60-min	2.00 (1.61-2.54)	2.22 (1.78-2.81)	2.57 (2.06-3.27)	2.88 (2.30-3.68)	3.33 (2.58-4.43)	3.70 (2.80-5.00)	4.08 (2.99-5.67)	4.47 (3.15-6.42)	5.02 (3.41-7.45)	5.46 (3.61-8.22)
2-hr	2.48 (2.00-3.11)	2.74 (2.22-3.45)	3.21 (2.58-4.05)	3.61 (2.89-4.58)	4.20 (3.28-5.55)	4.68 (3.57-6.29)	5.18 (3.82-7.17)	5.71 (4.05-8.16)	6.45 (4.41-9.51)	7.03 (4.68-10.5)
3-hr	2.70 (2.19-3.38)	3.02 (2.45-3.79)	3.58 (2.90-4.51)	4.08 (3.28-5.16)	4.81 (3.77-6.35)	5.41 (4.14-7.25)	6.03 (4.47-8.32)	6.70 (4.77-9.54)	7.63 (5.24-11.2)	8.37 (5.59-12.5)
6-hr	3.10 (2.53-3.86)	3.50 (2.85-4.36)	4.24 (3.44-5.29)	4.92 (3.97-6.18)	5.98 (4.74-7.92)	6.88 (5.32-9.24)	7.87 (5.88-10.9)	8.95 (6.43-12.7)	10.5 (7.27-15.4)	11.8 (7.90-17.4)
12-hr	3.58 (2.93-4.42)	4.02 (3.29-4.98)	4.93 (4.02-6.12)	5.86 (4.76-7.31)	7.38 (5.94-9.87)	8.76 (6.84-11.8)	10.3 (7.79-14.3)	12.1 (8.76-17.2)	14.6 (10.2-21.5)	16.8 (11.4-24.7)
24-hr	4.11 (3.39-5.05)	4.69 (3.86-5.76)	5.90 (4.84-7.27)	7.16 (5.84-8.87)	9.26 (7.53-12.4)	11.2 (8.80-15.1)	13.4 (10.2-18.5)	15.8 (11.6-22.5)	19.5 (13.7-28.5)	22.6 (15.4-33.0)
2-day	4.79 (3.96-5.84)	5.58 (4.62-6.82)	7.20 (5.93-8.81)	8.82 (7.23-10.9)	11.5 (9.36-15.2)	13.9 (11.0-18.5)	16.5 (12.7-22.7)	19.6 (14.4-27.6)	24.0 (17.0-34.8)	27.7 (19.0-40.3)
3-day	5.38 (4.46-6.53)	6.20 (5.14-7.54)	7.87 (6.51-9.60)	9.57 (7.87-11.7)	12.4 (10.1-16.3)	14.9 (11.8-19.8)	17.7 (13.6-24.2)	21.0 (15.5-29.4)	25.7 (18.3-37.1)	29.7 (20.4-43.0)
4-day	5.89 (4.90-7.13)	6.69 (5.56-8.11)	8.36 (6.93-10.2)	10.1 (8.30-12.3)	12.9 (10.6-17.0)	15.5 (12.3-20.5)	18.4 (14.2-25.0)	21.7 (16.1-30.4)	26.6 (19.0-38.3)	30.7 (21.2-44.3)
7-day	7.10 (5.93-8.55)	7.90 (6.60-9.53)	9.57 (7.96-11.6)	11.3 (9.34-13.7)	14.1 (11.6-18.4)	16.7 (13.4-22.0)	19.7 (15.2-26.6)	23.0 (17.1-32.0)	27.9 (20.0-40.0)	32.0 (22.2-46.0)
10-day	8.09 (6.78-9.71)	8.95 (7.48-10.7)	10.7 (8.89-12.8)	12.4 (10.3-15.0)	15.2 (12.5-19.7)	17.8 (14.2-23.2)	20.6 (16.0-27.6)	23.8 (17.8-32.9)	28.5 (20.5-40.6)	32.5 (22.6-46.5)
20-day	10.9 (9.16-13.0)	12.0 (10.1-14.3)	14.0 (11.8-16.8)	15.9 (13.2-19.1)	18.6 (15.2-23.5)	21.0 (16.8-26.9)	23.5 (18.2-31.0)	26.3 (19.6-35.7)	30.2 (21.7-42.3)	33.3 (23.4-47.3)
30-day	13.4 (11.3-15.8)	14.8 (12.5-17.6)	17.2 (14.5-20.5)	19.3 (16.1-23.1)	22.2 (18.1-27.7)	24.6 (19.6-31.1)	27.0 (20.9-35.2)	29.5 (22.0-39.7)	32.9 (23.7-45.8)	35.6 (25.0-50.4)
45-day	16.7 (14.1-19.7)	18.6 (15.8-22.0)	21.7 (18.3-25.8)	24.3 (20.4-28.9)	27.7 (22.5-34.0)	30.2 (24.1-37.8)	32.7 (25.3-42.2)	35.2 (26.3-46.9)	38.4 (27.7-52.9)	40.7 (28.8-57.4)
60-day	19.7 (16.7-23.2)	22.1 (18.7-26.1)	25.9 (21.9-30.7)	28.9 (24.3-34.4)	32.9 (26.7-40.2)	35.7 (28.5-44.5)	38.5 (29.8-49.4)	41.1 (30.7-54.5)	44.4 (32.1-60.9)	46.7 (33.1-65.7)

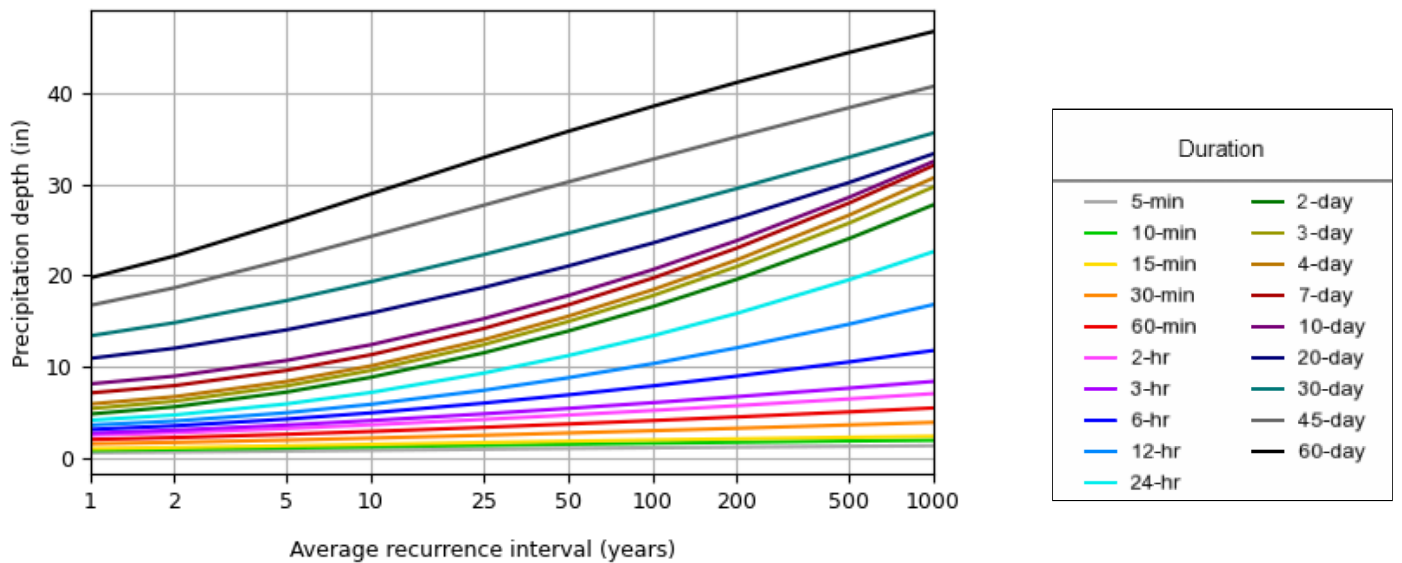
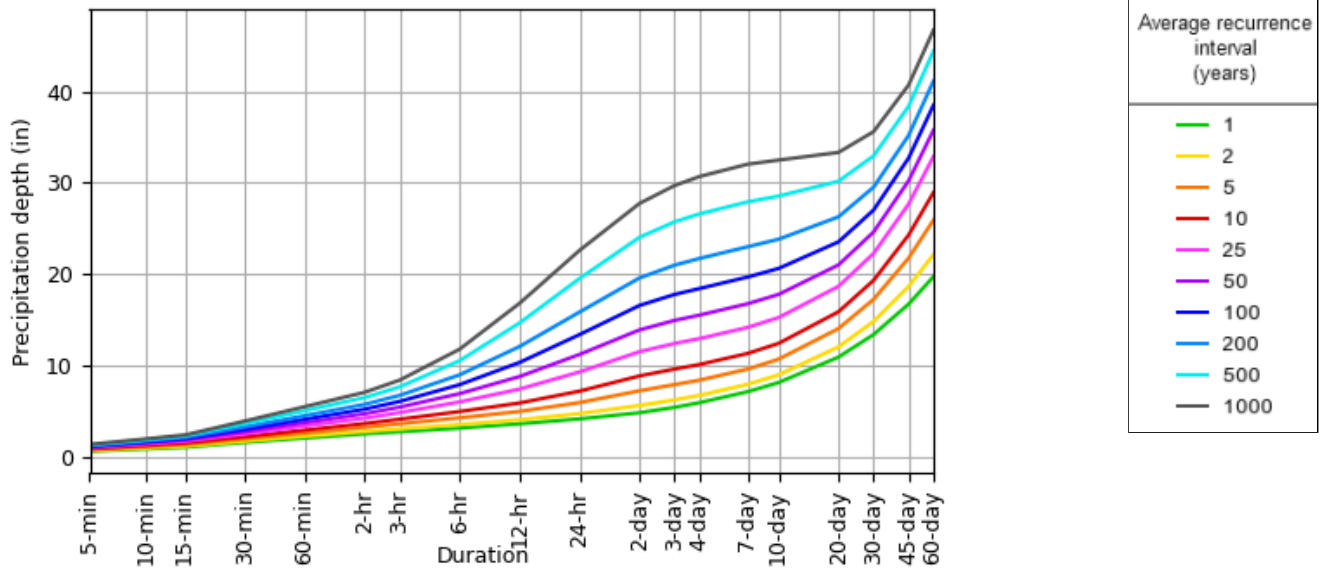
¹ Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).
Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values.
Please refer to NOAA Atlas 14 document for more information.

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PF graphical

PDS-based depth-duration-frequency (DDF) curves

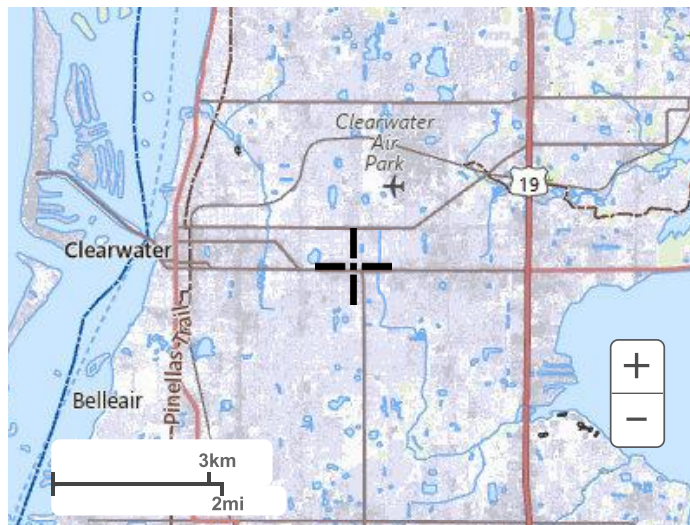
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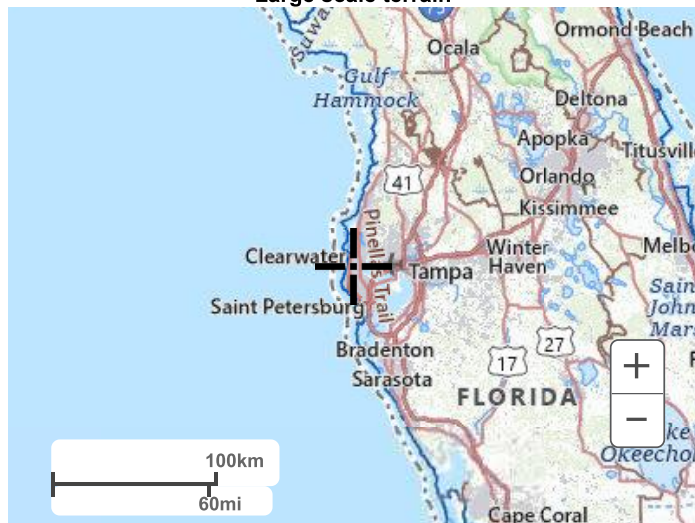
[Back to Top](#)

Maps & aerials

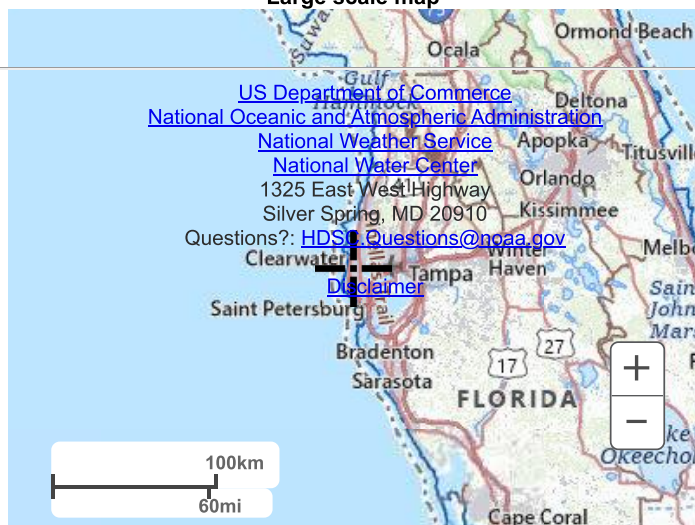
Small scale terrain



Large scale terrain



Large scale map

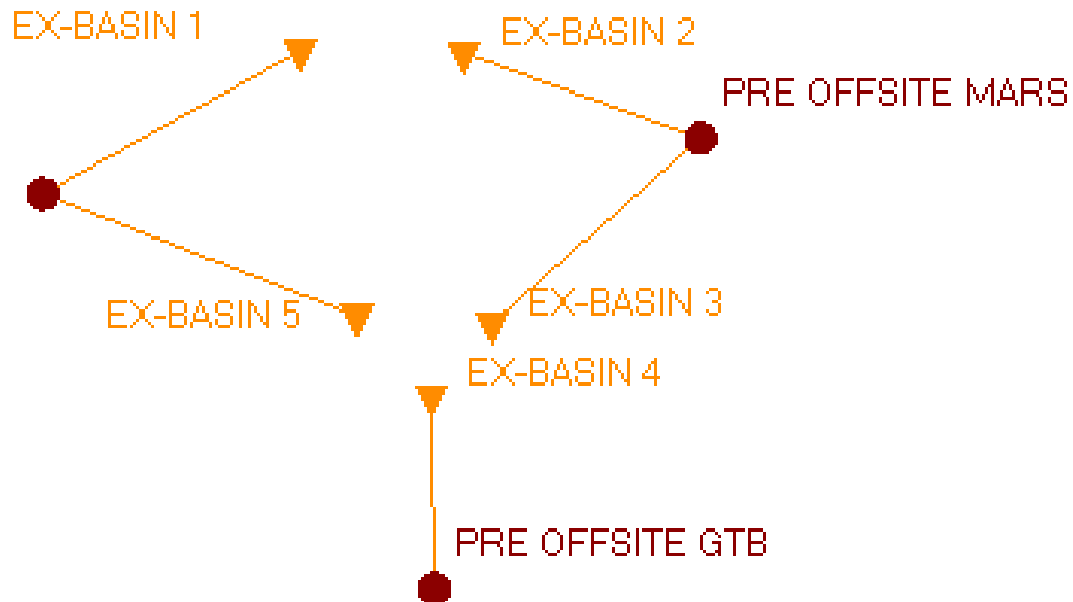


Large scale aerial

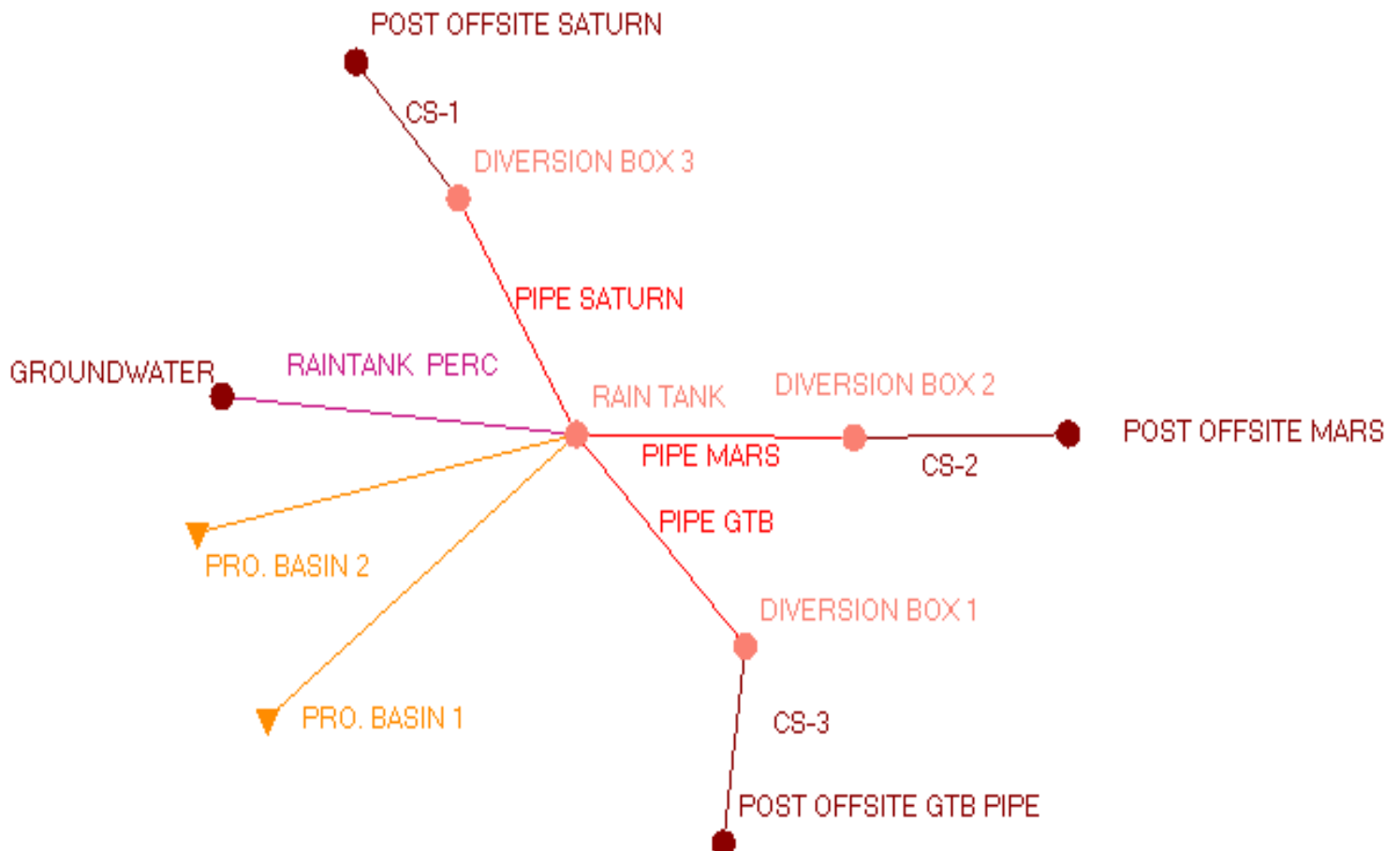
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[National Water Center](#)
 1325 East West Highway
 Silver Spring, MD 20910
 Questions?: HDS@questions.noaa.gov
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ICPR Model Node - Reach Diagram

EXISTING



PROPOSED





K:\Projects\WWS\WWS25005\04-Production\Engineering\Production Drawings\Current Drawings\Construction Drawings\WWS250052-E1.dwg, 2/27/2026 9:42:52 AM, Anthony Gonzalez



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407 S SATURN AVE

PERCOLATION MAP

407 S SATURN AVE

CLEARWATER, FL 33755

PLAN INFORMATION

PROJECT NO.	WWS25005
FILENAME	WWS250052-E1.DWG
CHECKED BY	CP
DRAWN BY	AG
SCALE	1" = 200'
DATE	2.27.2026

Simple Basin: EX-BASIN 1

Scenario: EXISTING
 Node: PRE OFFSITE SATURN
 Hydrograph Method: NRCS Unit Hydrograph
 Infiltration Method: Curve Number
 Time of Concentration: 10.0000 min
 Max Allowable Q: 0.00 cfs
 Time Shift: 0.0000 hr
 Unit Hydrograph: UH256
 Peaking Factor: 256.0
 Area: 0.4700 ac
 Curve Number: 62.6
 Ia/S: 0.00
 % Impervious: 0.00
 % DCIA: 0.00
 % Direct: 0.00
 Rainfall Name:

Comment:

Simple Basin: EX-BASIN 2

Scenario: EXISTING
 Node: PRE OFFSITE MARS
 Hydrograph Method: NRCS Unit Hydrograph
 Infiltration Method: Curve Number
 Time of Concentration: 10.0000 min
 Max Allowable Q: 0.00 cfs
 Time Shift: 0.0000 hr
 Unit Hydrograph: UH256
 Peaking Factor: 256.0
 Area: 0.8500 ac
 Curve Number: 62.6
 Ia/S: 0.00
 % Impervious: 0.00
 % DCIA: 0.00
 % Direct: 0.00
 Rainfall Name:

Comment:

Simple Basin: EX-BASIN 3

Scenario: EXISTING
 Node: PRE OFFSITE MARS
 Hydrograph Method: NRCS Unit Hydrograph
 Infiltration Method: Curve Number

Time of Concentration: 10.5000 min
Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 0.3800 ac
Curve Number: 62.6
Ia/S: 0.00
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: EX-BASIN 4

Scenario: EXISTING
Node: PRE OFFSITE GTB
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 22.0000 min
Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 0.3600 ac
Curve Number: 62.6
Ia/S: 0.00
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: EX-BASIN 5

Scenario: EXISTING
Node: PRE OFFSITE SATURN
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0

Area: 0.2300 ac
Curve Number: 62.6
Ia/S: 0.00
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: PRO. BASIN 1

Scenario: PROPOSED
Node: RAIN TANK
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 1.5000 ac
Curve Number: 78.0
Ia/S: 0.00
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: PRO. BASIN 2

Scenario: PROPOSED
Node: RAIN TANK
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 0.8000 ac
Curve Number: 89.1
Ia/S: 0.00
% Impervious: 0.00
% DCIA: 0.00

% Direct: 0.00
Rainfall Name:

Comment:

Node: PRE OFFSITE GTB

Scenario: EXISTING
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 65.73 ft
Warning Stage: 65.73 ft
Alert Stage: 0.00 ft
Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	65.73
0	0	0	72.0000	65.73

Comment:

Node: PRE OFFSITE MARS

Scenario: EXISTING
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 66.28 ft
Warning Stage: 66.28 ft
Alert Stage: 0.00 ft
Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	66.28
0	0	0	72.0000	66.28

Comment:

Node: PRE OFFSITE SATURN

Scenario: EXISTING
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 67.40 ft
Warning Stage: 67.40 ft
Alert Stage: 0.00 ft

Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	67.40
0	0	0	72.0000	67.40

Comment:

Node: DIVERSION BOX 1

Scenario: PROPOSED
 Type: Stage/Volume
 Base Flow: 0.00 cfs
 Initial Stage: 64.61 ft
 Warning Stage: 69.00 ft
 Alert Stage: 0.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
63.55	0.00	44
64.34	0.00	44
65.13	0.00	44
65.92	0.00	44
66.71	0.00	44
67.50	0.00	44
68.00	0.00	44
69.00	0.00	44

Comment:

Node: DIVERSION BOX 2

Scenario: PROPOSED
 Type: Stage/Volume
 Base Flow: 0.00 cfs
 Initial Stage: 66.28 ft
 Warning Stage: 69.00 ft
 Alert Stage: 0.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
63.55	0.00	44
64.34	0.00	44
65.13	0.00	44
65.92	0.00	44
66.71	0.00	44
67.50	0.00	44
68.00	0.00	44
69.00	0.00	44

Comment:

Node: DIVERSION BOX 3

Scenario: PROPOSED
 Type: Stage/Volume
 Base Flow: 0.00 cfs
 Initial Stage: 67.40 ft
 Warning Stage: 69.00 ft
 Alert Stage: 0.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
63.55	0.00	44
64.34	0.00	44
65.13	0.00	44
65.92	0.00	44
66.71	0.00	44
67.50	0.00	44
68.00	0.00	44
69.00	0.00	44

Comment:

Node: GROUNDWATER

Scenario: PROPOSED
 Type: Time/Stage
 Base Flow: 0.00 cfs
 Initial Stage: 62.05 ft
 Warning Stage: 62.05 ft
 Alert Stage: 0.00 ft
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	62.05
0	0	0	72.0000	62.05

Comment:

Node: POST OFFSITE GTB PIPE

Scenario: PROPOSED
 Type: Time/Stage
 Base Flow: 0.00 cfs

Initial Stage: 65.73 ft
 Warning Stage: 65.73 ft
 Alert Stage: 0.00 ft
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	65.73
0	0	0	72.0000	65.73

Comment:

Node: POST OFFSITE MARS

Scenario: PROPOSED
 Type: Time/Stage
 Base Flow: 0.00 cfs
 Initial Stage: 66.28 ft
 Warning Stage: 66.28 ft
 Alert Stage: 0.00 ft
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	66.28
0	0	0	72.0000	66.28

Comment:

Node: POST OFFSITE SATURN

Scenario: PROPOSED
 Type: Time/Stage
 Base Flow: 0.00 cfs
 Initial Stage: 67.40 ft
 Warning Stage: 67.40 ft
 Alert Stage: 0.00 ft
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	67.40
0	0	0	72.0000	67.40

Comment:

Node: RAIN TANK

Scenario: PROPOSED
 Type: Stage/Volume
 Base Flow: 0.00 cfs
 Initial Stage: 64.61 ft
 Warning Stage: 67.50 ft
 Alert Stage: 0.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
63.55	0.00	0
64.34	0.38	16466
65.13	0.76	32931
65.92	1.13	49397
66.71	1.51	65863
67.50	1.89	82328
68.00	1.89	82328
69.00	1.89	82328

Comment:

Drop Structure Link: CS-1		Upstream Pipe	Downstream Pipe
Scenario:	PROPOSED	Invert: 65.00 ft	Invert: 64.18 ft
From Node:	DIVERSION BOX 3	Manning's N: 0.0130	Manning's N: 0.0130
To Node:	POST OFFSITE SATURN	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 1.25 ft	Max Depth: 1.25 ft
Pipe Flow Direction:	Both	Bottom Clip	
Solution:	Combine	Default: 0.00 ft	Default: 0.00 ft
Increments:	0	Op Table:	Op Table:
Pipe Count:	1	Ref Node:	Ref Node:
Damping:	0.0000 ft	Manning's N: 0.0000	Manning's N: 0.0000
Length:	84.00 ft	Top Clip	
FHWA Code:	0	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef:	0.00	Op Table:	Op Table:
Exit Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Loss Coef:	0.00	Manning's N: 0.0000	Manning's N: 0.0000
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Pipe Comment:

Weir Component		
Weir:	1	Bottom Clip
Weir Count:	1	Default: 0.00 ft
Weir Flow Direction:	Both	Op Table:
Damping:	0.0000 ft	Ref Node:
Weir Type:	Sharp Crested Vertical	Top Clip
Geometry Type:	Rectangular	Default: 0.00 ft
Invert:	67.40 ft	Op Table:
Control Elevation:	67.40 ft	Ref Node:

Max Depth: 0.50 ft
 Max Width: 1.00 ft
 Fillet: 0.00 ft

Discharge Coefficients
 Weir Default: 3.200
 Weir Table:
 Orifice Default: 0.600
 Orifice Table:

Weir Comment:

Weir Component

Weir: 2
 Weir Count: 1
 Weir Flow Direction: Both
 Damping: 0.0000 ft
 Weir Type: Sharp Crested Vertical
 Geometry Type: Rectangular
 Invert: 68.00 ft
 Control Elevation: 68.00 ft
 Max Depth: 3.00 ft
 Max Width: 2.00 ft
 Fillet: 0.00 ft

Bottom Clip

Default: 0.00 ft
 Op Table:
 Ref Node:

Top Clip

Default: 0.00 ft
 Op Table:
 Ref Node:

Discharge Coefficients

Weir Default: 3.200
 Weir Table:
 Orifice Default: 0.600
 Orifice Table:

Weir Comment:

Drop Structure Comment:

Drop Structure Link: CS-2

Scenario: PROPOSED
 From Node: DIVERSION BOX 2
 To Node: POST OFFSITE MARS
 Link Count: 1
 Pipe Flow Direction: Both
 Solution: Combine
 Increments: 0
 Pipe Count: 1
 Damping: 0.0000 ft
 Length: 12.00 ft
 FHWA Code: 0
 Entr Loss Coef: 0.00
 Exit Loss Coef: 0.00
 Bend Loss Coef: 0.00
 Bend Location: 0.00 dec
 Energy Switch: Energy

Upstream Pipe

Invert: 64.00 ft
 Manning's N: 0.0130
 Geometry: Circular
 Max Depth: 1.25 ft

Downstream Pipe

Invert: 63.34 ft
 Manning's N: 0.0130
 Geometry: Circular
 Max Depth: 1.25 ft

Bottom Clip

Default: 0.00 ft
 Op Table:
 Ref Node:
 Manning's N: 0.0000

Top Clip

Default: 0.00 ft
 Op Table:
 Ref Node:
 Manning's N: 0.0000

Pipe Comment:

Weir Component

Weir: 1

Bottom Clip

Weir Count: 1
 Weir Flow Direction: Both
 Damping: 0.0000 ft
 Weir Type: Sharp Crested Vertical
 Geometry Type: Rectangular
 Invert: 66.28 ft
 Control Elevation: 66.28 ft
 Max Depth: 2.00 ft
 Max Width: 1.00 ft
 Fillet: 0.00 ft

Default: 0.00 ft

Op Table:

Ref Node:

Top Clip

Default: 0.00 ft

Op Table:

Ref Node:

Discharge Coefficients

Weir Default: 3.200

Weir Table:

Orifice Default: 0.600

Orifice Table:

Weir Comment:

Weir Component

Weir: 2
 Weir Count: 1
 Weir Flow Direction: Both
 Damping: 0.0000 ft
 Weir Type: Sharp Crested Vertical
 Geometry Type: Rectangular
 Invert: 68.00 ft
 Control Elevation: 68.00 ft
 Max Depth: 3.00 ft
 Max Width: 2.00 ft
 Fillet: 0.00 ft

Bottom Clip

Default: 0.00 ft

Op Table:

Ref Node:

Top Clip

Default: 0.00 ft

Op Table:

Ref Node:

Discharge Coefficients

Weir Default: 3.200

Weir Table:

Orifice Default: 0.600

Orifice Table:

Weir Comment:

Drop Structure Comment:

Drop Structure Link: CS-3

Scenario: PROPOSED
 From Node: DIVERSION BOX 1
 To Node: POST OFFSITE GTB
 PIPE
 Link Count: 1
 Pipe Flow Direction: Both
 Solution: Combine
 Increments: 0
 Pipe Count: 1
 Damping: 0.0000 ft
 Length: 14.50 ft
 FHWA Code: 0
 Entr Loss Coef: 0.00

Upstream Pipe

Invert: 59.34 ft
 Manning's N: 0.0130
 Geometry: Circular
 Max Depth: 1.50 ft

Downstream Pipe

Invert: 59.34 ft
 Manning's N: 0.0130
 Geometry: Circular
 Max Depth: 1.50 ft

Bottom Clip

Default: 0.00 ft

Op Table:

Ref Node:

Manning's N: 0.0000

Top Clip

Default: 0.00 ft

Op Table:

Ref Node:

Default: 0.00 ft

Op Table:

Ref Node:

Manning's N: 0.0000

Default: 0.00 ft

Op Table:

Ref Node:

Exit Loss Coef: 0.00 Manning's N: 0.0000 Manning's N: 0.0000
 Bend Loss Coef: 0.00
 Bend Location: 0.00 dec
 Energy Switch: Energy

Pipe Comment:

Weir Component	
Weir: 1	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000	Ref Node:
Weir Type: Sharp Crested Vertical	Top Clip
Geometry Type: Rectangular	Default: 0.00 ft
Invert: 65.73 ft	Op Table:
Control Elevation: 65.73 ft	Ref Node:
Max Depth: 0.50 ft	Discharge Coefficients
Max Width: 0.50 ft	Weir Default: 3.200
Fillet: 0.00 ft	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Weir Comment:

Weir Component	
Weir: 2	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000	Ref Node:
Weir Type: Sharp Crested Vertical	Top Clip
Geometry Type: Rectangular	Default: 0.00 ft
Invert: 68.05 ft	Op Table:
Control Elevation: 68.05 ft	Ref Node:
Max Depth: 3.00 ft	Discharge Coefficients
Max Width: 2.00 ft	Weir Default: 3.200
Fillet: 0.00 ft	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Weir Comment:

Drop Structure Comment:

Pipe Link: PIPE GTB		Upstream	Downstream
Scenario: PROPOSED		Invert: 64.61 ft	Invert: 64.61 ft
From Node: RAIN TANK		Manning's N: 0.0110	Manning's N: 0.0110
To Node: DIVERSION BOX 1		Geometry: Circular	Geometry: Circular
Link Count: 1		Max Depth: 0.25 ft	Max Depth: 0.25 ft
Flow Direction: Both		Bottom Clip	
Damping: 0.0000 ft		Default: 0.00 ft	Default: 0.00 ft

Length:	112.00 ft	Op Table:		Op Table:	
FHWA Code:	0	Ref Node:		Ref Node:	
Entr Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.00	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000
Comment:					

Pipe Link: PIPE MARS		Upstream	Downstream
Scenario:	PROPOSED	Invert: 64.61 ft	Invert: 64.61 ft
From Node:	RAIN TANK	Manning's N: 0.0130	Manning's N: 0.0130
To Node:	DIVERSION BOX 2	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 1.50 ft	Max Depth: 1.50 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length:	6.00 ft	Op Table:	Op Table:
FHWA Code:	0	Ref Node:	Ref Node:
Entr Loss Coef:	0.00	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef:	0.00	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000
Comment:			

Pipe Link: PIPE SATURN		Upstream	Downstream
Scenario:	PROPOSED	Invert: 64.61 ft	Invert: 64.61 ft
From Node:	RAIN TANK	Manning's N: 0.0130	Manning's N: 0.0130
To Node:	DIVERSION BOX 3	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 1.50 ft	Max Depth: 1.50 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length:	38.00 ft	Op Table:	Op Table:
FHWA Code:	0	Ref Node:	Ref Node:
Entr Loss Coef:	0.00	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef:	0.00	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000
Comment:			

Percolation Link: RAIN TANK PERC

Scenario:	PROPOSED	Surface Area Option:	Vary Based on Stage/Area Table
From Node:	RAIN TANK	Vertical Flow Termination:	Horizontal Flow Algorithm
To Node:	GROUNDWATER	Perimeter 1:	1128.24 ft
Link Count:	1	Perimeter 2:	1268.73 ft
Flow Direction:	Both	Perimeter 3:	4083.29 ft
Aquifer Base Elevation:	60.05 ft	Distance P1 to P2:	50.00 ft
Water Table Elevation:	62.05 ft	Distance P2 to P3:	450.00 ft
Annual Recharge Rate:	0 ipy	# of Cells P1 to P2:	2
Horizontal Conductivity:	21.200 fpd	# of Cells P2 to P3:	10
Vertical Conductivity:	10.600 fpd		
Fillable Porosity:	0.250		
Layer Thickness:	1.50 ft		

Comment:

Simulation: 003-Yr 01-Hr

Scenario: EXISTING
Run Date/Time: 2/26/2026 11:13:10 AM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	2.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:

Extern Hydrograph Set:

Curve Number Set:

Green-Ampt Set:

Vertical Layers Set:

Impervious Set:

Tolerances & Options

Time Marching: SAOR

Max Iterations: 6

Over-Relax Weight 0.5 dec

Fact:

dZ Tolerance: 0.0010 ft

Max dZ: 1.0000 ft

Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain Global
Opt:

Rainfall Name: ~FDOT-1

Rainfall Amount: 2.34 in

Storm Duration: 1.0000 hr

Dflt Damping (1D): 0.0050 ft

Min Node Srf Area 100 ft2

(1D):

Energy Switch (1D): Energy

Comment:

Simulation: 003-Yr 02-Hr

Scenario: EXISTING

Run Date/Time: 2/26/2026 11:13:10 AM

Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	4.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight 0.5 dec
Fact:
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain Global
Opt:Rainfall Name: ~FDOT-2
Rainfall Amount: 2.90 in
Storm Duration: 2.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area 100 ft2
(1D):
Energy Switch (1D): Energy

Comment:

Simulation: 003-Yr 04-Hr

Scenario: EXISTING
 Run Date/Time: 2/26/2026 11:13:10 AM
 Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	4.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set:

Green-Ampt Set:
 Vertical Layers Set:
 Impervious Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft

IA Recovery Time: 24.0000 hr
 Ia/S: 0.20 dec

Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

Smp/Man Basin Rain Global
Opt:

Rainfall Name: ~FDOT-4
Rainfall Amount: 3.39 in
Storm Duration: 4.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area 100 ft2
(1D):
Energy Switch (1D): Energy

Comment:

Simulation: 003-Yr 08-Hr

Scenario: EXISTING
Run Date/Time: 2/26/2026 11:13:11 AM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	8.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources		Lookup Tables	
Rainfall Folder:		Boundary Stage Set:	
Unit Hydrograph Folder:		Extern Hydrograph Set:	
		Curve Number Set:	
		Green-Ampt Set:	
		Vertical Layers Set:	
		Impervious Set:	

Tolerances & Options			
Time Marching:	SAOR	IA Recovery Time:	24.0000 hr
Max Iterations:	6		
Over-Relax Weight	0.5 dec	Ia/S:	0.20 dec
Fact:			
dZ Tolerance:	0.0010 ft	Smp/Man Basin Rain	Global
Max dZ:	1.0000 ft	Opt:	
Link Optimizer Tol:	0.0001 ft		
		Rainfall Name:	~FDOT-8
		Rainfall Amount:	3.94 in
		Storm Duration:	8.0000 hr
		Dflt Damping (1D):	0.0050 ft
		Min Node Srf Area	100 ft2
		(1D):	
		Energy Switch (1D):	Energy

Comment:

Simulation: 003-Yr 24-Hr				
Scenario:	EXISTING			
Run Date/Time:	2/26/2026 11:13:11 AM			
Program Version:	StormWise 4.08.03			

General				
Run Mode:	Normal			
	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	24.0000
	Hydrology [sec]	Surface Hydraulics [sec]		
Min Calculation Time:	60.0000	0.1000		
Max Calculation Time:		30.0000		

Output Time Increments	

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:

Extern Hydrograph Set:

Curve Number Set:

Green-Ampt Set:

Vertical Layers Set:

Impervious Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight: 0.5 dec
Fact:
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain: Global
Opt:

Rainfall Name: ~FDOT-24
Rainfall Amount: 5.09 in
Storm Duration: 24.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area: 100 ft2
(1D):
Energy Switch (1D): Energy

Comment:

Simulation: 003-Yr 72-Hr

Scenario: EXISTING

Run Date/Time: 2/26/2026 11:13:12 AM
 Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	72.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set:

Green-Ampt Set:
 Vertical Layers Set:
 Impervious Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight: 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain: Global
 Opt:

Link Optimizer Tol: 0.0001 ft

Rainfall Name: ~FDOT-72
 Rainfall Amount: 6.76 in
 Storm Duration: 72.0000 hr
 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area 100 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 005-Yr 01-Hr

Scenario: EXISTING
 Run Date/Time: 2/26/2026 11:13:14 AM
 Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	2.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Lookup Tables

Boundary Stage Set:

Unit Hydrograph
Folder:

Extern Hydrograph Set:
Curve Number Set:

Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight: 0.5 dec
Fact:
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain: Global
Opt:

Rainfall Name: ~FDOT-1
Rainfall Amount: 2.57 in
Storm Duration: 1.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area: 100 ft2
(1D):
Energy Switch (1D): Energy

Comment:

Simulation: 005-Yr 02-Hr

Scenario: EXISTING
Run Date/Time: 2/26/2026 11:13:14 AM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	4.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:

Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight: 0.5 dec
Fact:
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
Ia/S: 0.20 dec
Smp/Man Basin Rain Opt: Global
Rainfall Name: ~FDOT-2
Rainfall Amount: 3.21 in
Storm Duration: 2.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (1D): 100 ft2
Energy Switch (1D): Energy

Comment:

Simulation: 005-Yr 04-Hr

Scenario: EXISTING
Run Date/Time: 2/26/2026 11:13:15 AM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	4.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight: 0.5 dec
Fact:
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ftIA Recovery Time: 24.0000 hr
Ia/S: 0.20 dec
Smp/Man Basin Rain: Global
Opt:
Rainfall Name: ~FDOT-4

Rainfall Amount: 3.80 in
 Storm Duration: 4.0000 hr
 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area 100 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 005-Yr 08-Hr

Scenario: EXISTING
 Run Date/Time: 2/26/2026 11:13:15 AM
 Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	8.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set:

Folder:

Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	
Over-Relax Weight 0.5 dec	Ia/S: 0.20 dec
Fact:	
dZ Tolerance: 0.0010 ft	
Max dZ: 1.0000 ft	Smp/Man Basin Rain Global
	Opt:
Link Optimizer Tol: 0.0001 ft	
	Rainfall Name: ~FDOT-8
	Rainfall Amount: 4.47 in
	Storm Duration: 8.0000 hr
	Dflt Damping (1D): 0.0050 ft
	Min Node Srf Area 100 ft2
	(1D):
	Energy Switch (1D): Energy

Comment:

Simulation: 005-Yr 24-Hr

Scenario: EXISTING
Run Date/Time: 2/26/2026 11:13:15 AM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	24.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
------	-------	-----	-----------	----------------------

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:

Extern Hydrograph Set:

Curve Number Set:

Green-Ampt Set:

Vertical Layers Set:

Impervious Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight: 0.5 dec
Fact:
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain: Global
Opt:

Rainfall Name: ~FDOT-24
Rainfall Amount: 5.90 in
Storm Duration: 24.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area: 100 ft2
(1D):
Energy Switch (1D): Energy

Comment:

Simulation: 005-Yr 72-Hr

Scenario: EXISTING

Run Date/Time: 2/26/2026 11:13:16 AM

Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	72.0000
	Hydrology [sec]	Surface Hydraulics [sec]		
Min Calculation Time:	60.0000	0.1000		
Max Calculation Time:		30.0000		

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight: 0.5 dec
Fact:
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain: Global
Opt:Rainfall Name: ~FDOT-72
Rainfall Amount: 7.87 in

Storm Duration: 72.0000 hr
 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area 100 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 010-Yr 01-Hr

Scenario: EXISTING
 Run Date/Time: 2/26/2026 11:13:18 AM
 Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	2.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set:

Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	
Over-Relax Weight 0.5 dec	Ia/S: 0.20 dec
Fact:	
dZ Tolerance: 0.0010 ft	Smp/Man Basin Rain Global
Max dZ: 1.0000 ft	Opt:
Link Optimizer Tol: 0.0001 ft	
	Rainfall Name: ~FDOT-1
	Rainfall Amount: 2.88 in
	Storm Duration: 1.0000 hr
	Dflt Damping (1D): 0.0050 ft
	Min Node Srf Area 100 ft2
	(1D):
	Energy Switch (1D): Energy

Comment:

Simulation: 010-Yr 02-Hr

Scenario: EXISTING
Run Date/Time: 2/26/2026 11:13:18 AM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	4.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:

Extern Hydrograph Set:

Curve Number Set:

Green-Ampt Set:

Vertical Layers Set:

Impervious Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight: 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain: Global
Opt:

Rainfall Name: ~FDOT-2
 Rainfall Amount: 3.61 in
 Storm Duration: 2.0000 hr
 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area: 100 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 010-Yr 04-Hr

Scenario: EXISTING

Run Date/Time: 2/26/2026 11:13:19 AM

Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	4.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:

Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight: 0.5 dec
Fact:
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain: Global
Opt:

Rainfall Name: ~FDOT-4
Rainfall Amount: 4.36 in
Storm Duration: 4.0000 hr
Dflt Damping (1D): 0.0050 ft

Min Node Srf Area 100 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 010-Yr 08-Hr

Scenario: EXISTING
 Run Date/Time: 2/26/2026 11:13:19 AM
 Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	8.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set:

Green-Ampt Set:
 Vertical Layers Set:

Impervious Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
 Ia/S: 0.20 dec
 Smp/Man Basin Rain Global
 Opt:
 Rainfall Name: ~FDOT-8
 Rainfall Amount: 5.23 in
 Storm Duration: 8.0000 hr
 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area 100 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 010-Yr 24-Hr

Scenario: EXISTING
 Run Date/Time: 2/26/2026 11:13:20 AM
 Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	24.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph

Folder:

Lookup Tables

Boundary Stage Set:

Extern Hydrograph Set:

Curve Number Set:

Green-Ampt Set:

Vertical Layers Set:

Impervious Set:

Tolerances & Options

Time Marching: SAOR

Max Iterations: 6

Over-Relax Weight 0.5 dec

Fact:

dZ Tolerance: 0.0010 ft

Max dZ: 1.0000 ft

Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain Global

Opt:

Rainfall Name: ~FDOT-24

Rainfall Amount: 7.16 in

Storm Duration: 24.0000 hr

Dflt Damping (1D): 0.0050 ft

Min Node Srf Area 100 ft2

(1D):

Energy Switch (1D): Energy

Comment:

Simulation: 010-Yr 72-Hr

Scenario: EXISTING

Run Date/Time: 2/26/2026 11:13:20 AM

Program Version: StormWise 4.08.03

General

Run Mode: Normal

Year

Month

Day

Hour [hr]

Start Time:	0	0	0	0.0000
End Time:	0	0	0	72.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:

Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight: 0.5 dec
Fact:
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft

Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain: Global
Opt:

Rainfall Name: ~FDOT-72
Rainfall Amount: 9.57 in
Storm Duration: 72.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area: 100 ft2
(1D):

Energy Switch (1D): Energy

Comment:

Simulation: 025-Yr 01-Hr

Scenario: EXISTING
 Run Date/Time: 2/26/2026 11:13:22 AM
 Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	2.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set:

Green-Ampt Set:
 Vertical Layers Set:
 Impervious Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	
Over-Relax Weight 0.5 dec	Ia/S: 0.20 dec
Fact:	
dZ Tolerance: 0.0010 ft	
Max dZ: 1.0000 ft	Smp/Man Basin Rain Global
	Opt:
Link Optimizer Tol: 0.0001 ft	
	Rainfall Name: ~FDOT-1
	Rainfall Amount: 3.33 in
	Storm Duration: 1.0000 hr
	Dflt Damping (1D): 0.0050 ft
	Min Node Srf Area 100 ft2
	(1D):
	Energy Switch (1D): Energy

Comment:

Simulation: 025-Yr 02-Hr

Scenario: EXISTING
Run Date/Time: 2/26/2026 11:13:23 AM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	4.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
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Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:

Extern Hydrograph Set:

Curve Number Set:

Green-Ampt Set:

Vertical Layers Set:

Impervious Set:

Tolerances & Options

Time Marching: SAOR

Max Iterations: 6

Over-Relax Weight 0.5 dec

Fact:

dZ Tolerance: 0.0010 ft

Max dZ: 1.0000 ft

Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain Global

Opt:

Rainfall Name: ~FDOT-2

Rainfall Amount: 4.20 in

Storm Duration: 2.0000 hr

Dflt Damping (1D): 0.0050 ft

Min Node Srf Area 100 ft2

(1D):

Energy Switch (1D): Energy

Comment:

Simulation: 025-Yr 04-Hr

Scenario: EXISTING

Run Date/Time: 2/26/2026 11:13:23 AM

Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000

End Time: 0 0 0 4.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:

Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight: 0.5 dec
Fact:
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain: Global
Opt:

Rainfall Name: ~FDOT-4
Rainfall Amount: 5.20 in
Storm Duration: 4.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area: 100 ft2
(1D):
Energy Switch (1D): Energy

Comment:

Simulation: 025-Yr 08-Hr

Scenario: EXISTING
Run Date/Time: 2/26/2026 11:13:23 AM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	8.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:

Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight: 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
 Ia/S: 0.20 dec
 Smp/Man Basin Rain Opt: Global
 Rainfall Name: ~FDOT-8
 Rainfall Amount: 6.45 in
 Storm Duration: 8.0000 hr
 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area: 100 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 025-Yr 24-Hr

Scenario: EXISTING
 Run Date/Time: 2/26/2026 11:13:24 AM
 Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	24.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:

Extern Hydrograph Set:

Curve Number Set:

Green-Ampt Set:

Vertical Layers Set:

Impervious Set:

Tolerances & Options

Time Marching: SAOR

Max Iterations: 6

Over-Relax Weight 0.5 dec

Fact:

dZ Tolerance: 0.0010 ft

Max dZ: 1.0000 ft

Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain Global
Opt:

Rainfall Name: ~FDOT-24

Rainfall Amount: 9.26 in

Storm Duration: 24.0000 hr

Dflt Damping (1D): 0.0050 ft

Min Node Srf Area 100 ft2

(1D):

Energy Switch (1D): Energy

Comment:

Simulation: 025-Yr 72-Hr

Scenario: EXISTING

Run Date/Time: 2/26/2026 11:13:25 AM

Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	72.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:

Extern Hydrograph Set:

Curve Number Set:

Green-Ampt Set:

Vertical Layers Set:

Impervious Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight: 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain: Global
 Opt:

Rainfall Name: ~FDOT-72
 Rainfall Amount: 12.40 in
 Storm Duration: 72.0000 hr
 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area: 100 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 050-Yr 01-Hr

Scenario: EXISTING
 Run Date/Time: 2/26/2026 11:13:26 AM
 Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	2.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set:

Green-Ampt Set:
 Vertical Layers Set:
 Impervious Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft

IA Recovery Time: 24.0000 hr
 Ia/S: 0.20 dec

Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

Smp/Man Basin Rain Global
Opt:

Rainfall Name: ~FDOT-1
Rainfall Amount: 3.70 in
Storm Duration: 1.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area 100 ft2
(1D):
Energy Switch (1D): Energy

Comment:

Simulation: 050-Yr 02-Hr

Scenario: EXISTING
Run Date/Time: 2/26/2026 11:13:27 AM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	4.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources		Lookup Tables	
Rainfall Folder:		Boundary Stage Set:	
Unit Hydrograph Folder:		Extern Hydrograph Set:	
		Curve Number Set:	
		Green-Ampt Set:	
		Vertical Layers Set:	
		Impervious Set:	

Tolerances & Options			
Time Marching:	SAOR	IA Recovery Time:	24.0000 hr
Max Iterations:	6		
Over-Relax Weight	0.5 dec	Ia/S:	0.20 dec
Fact:			
dZ Tolerance:	0.0010 ft	Smp/Man Basin Rain	Global
Max dZ:	1.0000 ft	Opt:	
Link Optimizer Tol:	0.0001 ft		
		Rainfall Name:	~FDOT-2
		Rainfall Amount:	4.68 in
		Storm Duration:	2.0000 hr
		Dflt Damping (1D):	0.0050 ft
		Min Node Srf Area	100 ft2
		(1D):	
		Energy Switch (1D):	Energy

Comment:

Simulation: 050-Yr 04-Hr				
Scenario:	EXISTING			
Run Date/Time:	2/26/2026 11:13:27 AM			
Program Version:	StormWise 4.08.03			

General				
Run Mode:	Normal			
	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	4.0000
	Hydrology [sec]	Surface Hydraulics [sec]		
Min Calculation Time:	60.0000	0.1000		
Max Calculation Time:		30.0000		

Output Time Increments				
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Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:

Extern Hydrograph Set:

Curve Number Set:

Green-Ampt Set:

Vertical Layers Set:

Impervious Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight: 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain: Global
Opt:

Rainfall Name: ~FDOT-4
 Rainfall Amount: 5.90 in
 Storm Duration: 4.0000 hr
 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area: 100 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 050-Yr 08-Hr

Scenario: EXISTING

Run Date/Time: 2/26/2026 11:13:27 AM
 Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	8.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set:

Green-Ampt Set:
 Vertical Layers Set:
 Impervious Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight: 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft

IA Recovery Time: 24.0000 hr
 Ia/S: 0.20 dec
 Smp/Man Basin Rain: Global
 Opt:

Link Optimizer Tol: 0.0001 ft

Rainfall Name: ~FDOT-8
 Rainfall Amount: 7.51 in
 Storm Duration: 8.0000 hr
 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area 100 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 050-Yr 24-Hr

Scenario: EXISTING
 Run Date/Time: 2/26/2026 11:13:28 AM
 Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	24.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Lookup Tables

Boundary Stage Set:

Unit Hydrograph
Folder:

Extern Hydrograph Set:
Curve Number Set:

Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight: 0.5 dec
Fact:
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain: Global
Opt:

Rainfall Name: ~FDOT-24
Rainfall Amount: 11.20 in
Storm Duration: 24.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area: 100 ft2
(1D):
Energy Switch (1D): Energy

Comment:

Simulation: 050-Yr 72-Hr

Scenario: EXISTING
Run Date/Time: 2/26/2026 11:13:29 AM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	72.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:

Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight: 0.5 dec
Fact:
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
Ia/S: 0.20 dec
Smp/Man Basin Rain Opt: Global
Rainfall Name: ~FDOT-72
Rainfall Amount: 14.90 in
Storm Duration: 72.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (1D): 100 ft2
Energy Switch (1D): Energy

Comment:

Simulation: 100-Yr 01-Hr

Scenario: EXISTING
Run Date/Time: 2/26/2026 11:13:30 AM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	2.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight: 0.5 dec
Fact:
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ftIA Recovery Time: 24.0000 hr
Ia/S: 0.20 dec
Smp/Man Basin Rain: Global
Opt:
Rainfall Name: ~FDOT-1

Rainfall Amount: 4.08 in
 Storm Duration: 1.0000 hr
 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area 100 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 100-Yr 02-Hr

Scenario: EXISTING
 Run Date/Time: 2/26/2026 11:13:31 AM
 Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	4.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set:

Folder:

Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	
Over-Relax Weight 0.5 dec	Ia/S: 0.20 dec
Fact:	
dZ Tolerance: 0.0010 ft	Smp/Man Basin Rain Global
Max dZ: 1.0000 ft	Opt:
Link Optimizer Tol: 0.0001 ft	
	Rainfall Name: ~FDOT-2
	Rainfall Amount: 5.18 in
	Storm Duration: 2.0000 hr
	Dflt Damping (1D): 0.0050 ft
	Min Node Srf Area 100 ft2
	(1D):
	Energy Switch (1D): Energy

Comment:

Simulation: 100-Yr 04-Hr

Scenario: EXISTING
Run Date/Time: 2/26/2026 11:13:31 AM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	4.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
------	-------	-----	-----------	----------------------

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:

Extern Hydrograph Set:

Curve Number Set:

Green-Ampt Set:

Vertical Layers Set:

Impervious Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight: 0.5 dec
Fact:
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain: Global
Opt:

Rainfall Name: ~FDOT-4
Rainfall Amount: 6.64 in
Storm Duration: 4.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area: 100 ft2
(1D):
Energy Switch (1D): Energy

Comment:

Simulation: 100-Yr 08-Hr

Scenario: EXISTING
Run Date/Time: 2/26/2026 11:13:31 AM
Program Version: StormWise 4.08.03

General				
Run Mode: Normal				
	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	8.0000
	Hydrology [sec]	Surface Hydraulics [sec]		
Min Calculation Time:	60.0000	0.1000		
Max Calculation Time:		30.0000		
Output Time Increments				
Hydrology				
Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000
Surface Hydraulics				
Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000
Restart File				
Save Restart: False				
Resources & Lookup Tables				
Resources		Lookup Tables		
Rainfall Folder:		Boundary Stage Set:		
Unit Hydrograph Folder:		Extern Hydrograph Set:		
		Curve Number Set:		
		Green-Ampt Set:		
		Vertical Layers Set:		
		Impervious Set:		
Tolerances & Options				
Time Marching: SAOR		IA Recovery Time: 24.0000 hr		
Max Iterations: 6				
Over-Relax Weight: 0.5 dec		Ia/S: 0.20 dec		
Fact:				
dZ Tolerance: 0.0010 ft		Smp/Man Basin Rain: Global		
Max dZ: 1.0000 ft		Opt:		
Link Optimizer Tol: 0.0001 ft		Rainfall Name: ~FDOT-8		
		Rainfall Amount: 8.68 in		

Storm Duration: 8.0000 hr
 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area 100 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 100-Yr 24-Hr

Scenario: EXISTING
 Run Date/Time: 2/26/2026 11:13:32 AM
 Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	24.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set:

Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	
Over-Relax Weight 0.5 dec	Ia/S: 0.20 dec
Fact:	
dZ Tolerance: 0.0010 ft	
Max dZ: 1.0000 ft	Smp/Man Basin Rain Global
	Opt:
Link Optimizer Tol: 0.0001 ft	
	Rainfall Name: ~FDOT-24
	Rainfall Amount: 13.40 in
	Storm Duration: 24.0000 hr
	Dflt Damping (1D): 0.0050 ft
	Min Node Srf Area 100 ft2
	(1D):
	Energy Switch (1D): Energy

Comment:

Simulation: 100-Yr 72-Hr

Scenario: EXISTING
Run Date/Time: 2/26/2026 11:13:32 AM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	72.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:

Extern Hydrograph Set:

Curve Number Set:

Green-Ampt Set:

Vertical Layers Set:

Impervious Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight: 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain: Global
 Opt:

Rainfall Name: ~FDOT-72
 Rainfall Amount: 17.70 in
 Storm Duration: 72.0000 hr
 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area: 100 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: SWFWMD 25YR24HR

Scenario: EXISTING

Run Date/Time: 2/26/2026 11:13:34 AM

Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	24.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:

Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight: 0.5 dec
Fact:
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain: Global
Opt:

Rainfall Name: ~FLMOD
Rainfall Amount: 9.00 in
Storm Duration: 24.0000 hr
Dflt Damping (1D): 0.0050 ft

Min Node Srf Area 100 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: SWFWMD 50YR24HR

Scenario: EXISTING
 Run Date/Time: 2/26/2026 11:13:35 AM
 Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	24.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set:

Green-Ampt Set:
 Vertical Layers Set:

Impervious Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
 Ia/S: 0.20 dec
 Smp/Man Basin Rain Global
 Opt:
 Rainfall Name: ~FLMOD
 Rainfall Amount: 10.00 in
 Storm Duration: 24.0000 hr
 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area 100 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 003-Yr 01-Hr

Scenario: PROPOSED
 Run Date/Time: 2/26/2026 1:02:05 PM
 Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	2.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph

Folder:

Lookup Tables

Boundary Stage Set:

Extern Hydrograph Set:

Curve Number Set:

Green-Ampt Set:

Vertical Layers Set:

Impervious Set:

Tolerances & Options

Time Marching: SAOR

Max Iterations: 6

Over-Relax Weight 0.5 dec

Fact:

dZ Tolerance: 0.0010 ft

Max dZ: 1.0000 ft

Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain Global

Opt:

Rainfall Name: ~FDOT-1

Rainfall Amount: 2.34 in

Storm Duration: 1.0000 hr

Dflt Damping (1D): 0.0050 ft

Min Node Srf Area 100 ft2

(1D):

Energy Switch (1D): Energy

Comment:

Simulation: 003-Yr 02-Hr

Scenario: PROPOSED

Run Date/Time: 2/26/2026 1:02:06 PM

Program Version: StormWise 4.08.03

General

Run Mode: Normal

Year

Month

Day

Hour [hr]

Start Time:	0	0	0	0.0000
End Time:	0	0	0	4.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:

Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight 0.5 dec
Fact:
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft

Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain Global
Opt:

Rainfall Name: ~FDOT-2
Rainfall Amount: 2.90 in
Storm Duration: 2.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area 100 ft2
(1D):

Energy Switch (1D): Energy

Comment:

Simulation: 003-Yr 04-Hr

Scenario: PROPOSED
Run Date/Time: 2/26/2026 1:02:06 PM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	4.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:

Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	
Over-Relax Weight 0.5 dec	Ia/S: 0.20 dec
Fact:	
dZ Tolerance: 0.0010 ft	
Max dZ: 1.0000 ft	Smp/Man Basin Rain Global
	Opt:
Link Optimizer Tol: 0.0001 ft	
	Rainfall Name: ~FDOT-4
	Rainfall Amount: 3.39 in
	Storm Duration: 4.0000 hr
	Dflt Damping (1D): 0.0050 ft
	Min Node Srf Area 100 ft2
	(1D):
	Energy Switch (1D): Energy

Comment:

Simulation: 003-Yr 08-Hr

Scenario: PROPOSED
Run Date/Time: 2/26/2026 1:02:07 PM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	8.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
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Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:

Extern Hydrograph Set:

Curve Number Set:

Green-Ampt Set:

Vertical Layers Set:

Impervious Set:

Tolerances & Options

Time Marching: SAOR

Max Iterations: 6

Over-Relax Weight 0.5 dec

Fact:

dZ Tolerance: 0.0010 ft

Max dZ: 1.0000 ft

Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain Global
Opt:

Rainfall Name: ~FDOT-8

Rainfall Amount: 3.94 in

Storm Duration: 8.0000 hr

Dflt Damping (1D): 0.0050 ft

Min Node Srf Area 100 ft2

(1D):

Energy Switch (1D): Energy

Comment:

Simulation: 003-Yr 24-Hr

Scenario: PROPOSED

Run Date/Time: 2/26/2026 1:02:08 PM

Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000

End Time: 0 0 0 24.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:

Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight: 0.5 dec
Fact:
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain: Global
Opt:

Rainfall Name: ~FDOT-24
Rainfall Amount: 5.09 in
Storm Duration: 24.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area: 100 ft2
(1D):
Energy Switch (1D): Energy

Comment:

Simulation: 003-Yr 72-Hr

Scenario: PROPOSED
Run Date/Time: 2/26/2026 1:02:09 PM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	72.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:

Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight: 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
 Ia/S: 0.20 dec
 Smp/Man Basin Rain: Global
 Opt:
 Rainfall Name: ~FDOT-72
 Rainfall Amount: 6.76 in
 Storm Duration: 72.0000 hr
 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area: 100 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 005-Yr 01-Hr

Scenario: PROPOSED
 Run Date/Time: 2/26/2026 1:02:11 PM
 Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	2.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:

Extern Hydrograph Set:

Curve Number Set:

Green-Ampt Set:

Vertical Layers Set:

Impervious Set:

Tolerances & Options

Time Marching: SAOR

Max Iterations: 6

Over-Relax Weight 0.5 dec

Fact:

dZ Tolerance: 0.0010 ft

Max dZ: 1.0000 ft

Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain Global
Opt:

Rainfall Name: ~FDOT-1

Rainfall Amount: 2.57 in

Storm Duration: 1.0000 hr

Dflt Damping (1D): 0.0050 ft

Min Node Srf Area 100 ft2

(1D):

Energy Switch (1D): Energy

Comment:

Simulation: 005-Yr 02-Hr

Scenario: PROPOSED

Run Date/Time: 2/26/2026 1:02:11 PM

Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	4.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight: 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain: Global
Opt:

Rainfall Name: ~FDOT-2
 Rainfall Amount: 3.21 in
 Storm Duration: 2.0000 hr
 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area: 100 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 005-Yr 04-Hr

Scenario: PROPOSED
 Run Date/Time: 2/26/2026 1:02:12 PM
 Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	4.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set:

Green-Ampt Set:
 Vertical Layers Set:
 Impervious Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft

IA Recovery Time: 24.0000 hr
 Ia/S: 0.20 dec

Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

Smp/Man Basin Rain Global
Opt:

Rainfall Name: ~FDOT-4
Rainfall Amount: 3.80 in
Storm Duration: 4.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area 100 ft2
(1D):
Energy Switch (1D): Energy

Comment:

Simulation: 005-Yr 08-Hr

Scenario: PROPOSED
Run Date/Time: 2/26/2026 1:02:12 PM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	8.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources	Lookup Tables
Rainfall Folder:	Boundary Stage Set:
Unit Hydrograph Folder:	Extern Hydrograph Set:
	Curve Number Set:
	Green-Ampt Set:
	Vertical Layers Set:
	Impervious Set:

Tolerances & Options			
Time Marching:	SAOR	IA Recovery Time:	24.0000 hr
Max Iterations:	6		
Over-Relax Weight	0.5 dec	Ia/S:	0.20 dec
Fact:			
dZ Tolerance:	0.0010 ft		
Max dZ:	1.0000 ft	Smp/Man Basin Rain	Global
		Opt:	
Link Optimizer Tol:	0.0001 ft		
		Rainfall Name:	~FDOT-8
		Rainfall Amount:	4.47 in
		Storm Duration:	8.0000 hr
		Dflt Damping (1D):	0.0050 ft
		Min Node Srf Area	100 ft2
		(1D):	
		Energy Switch (1D):	Energy

Comment:

Simulation: 005-Yr 24-Hr

Scenario: PROPOSED
Run Date/Time: 2/26/2026 1:02:13 PM
Program Version: StormWise 4.08.03

General				
Run Mode:	Normal			
	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	24.0000
	Hydrology [sec]	Surface Hydraulics [sec]		
Min Calculation Time:	60.0000	0.1000		
Max Calculation Time:		30.0000		

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight: 0.5 dec
Fact:
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain: Global
Opt:Rainfall Name: ~FDOT-24
Rainfall Amount: 5.90 in
Storm Duration: 24.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area: 100 ft2
(1D):
Energy Switch (1D): Energy

Comment:

Simulation: 005-Yr 72-Hr

Scenario: PROPOSED

Run Date/Time: 2/26/2026 1:02:14 PM
 Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	72.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set:

Green-Ampt Set:
 Vertical Layers Set:
 Impervious Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight: 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain: Global
 Opt:

Link Optimizer Tol: 0.0001 ft

Rainfall Name: ~FDOT-72
 Rainfall Amount: 7.87 in
 Storm Duration: 72.0000 hr
 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area 100 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 010-Yr 01-Hr

Scenario: PROPOSED
 Run Date/Time: 2/26/2026 1:02:16 PM
 Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	2.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Lookup Tables

Boundary Stage Set:

Unit Hydrograph
Folder:

Extern Hydrograph Set:
Curve Number Set:

Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight: 0.5 dec
Fact:
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain: Global
Opt:

Rainfall Name: ~FDOT-1
Rainfall Amount: 2.88 in
Storm Duration: 1.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area: 100 ft2
(1D):
Energy Switch (1D): Energy

Comment:

Simulation: 010-Yr 02-Hr

Scenario: PROPOSED
Run Date/Time: 2/26/2026 1:02:17 PM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	4.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:

Extern Hydrograph Set:

Curve Number Set:

Green-Ampt Set:

Vertical Layers Set:

Impervious Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight: 0.5 dec
Fact:
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain: Global
Opt:

Rainfall Name: ~FDOT-2
Rainfall Amount: 3.61 in
Storm Duration: 2.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area: 100 ft2
(1D):
Energy Switch (1D): Energy

Comment:

Simulation: 010-Yr 04-Hr

Scenario: PROPOSED
Run Date/Time: 2/26/2026 1:02:17 PM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	4.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight: 0.5 dec
Fact:
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ftIA Recovery Time: 24.0000 hr
Ia/S: 0.20 dec
Smp/Man Basin Rain: Global
Opt:
Rainfall Name: ~FDOT-4

Rainfall Amount: 4.36 in
 Storm Duration: 4.0000 hr
 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area 100 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 010-Yr 08-Hr

Scenario: PROPOSED
 Run Date/Time: 2/26/2026 1:02:17 PM
 Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	8.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set:

Folder:

Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	
Over-Relax Weight 0.5 dec	Ia/S: 0.20 dec
Fact:	
dZ Tolerance: 0.0010 ft	
Max dZ: 1.0000 ft	Smp/Man Basin Rain Global
	Opt:
Link Optimizer Tol: 0.0001 ft	
	Rainfall Name: ~FDOT-8
	Rainfall Amount: 5.23 in
	Storm Duration: 8.0000 hr
	Dflt Damping (1D): 0.0050 ft
	Min Node Srf Area 100 ft2
	(1D):
	Energy Switch (1D): Energy

Comment:

Simulation: 010-Yr 24-Hr

Scenario: PROPOSED
Run Date/Time: 2/26/2026 1:02:18 PM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	24.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
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Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:

Extern Hydrograph Set:

Curve Number Set:

Green-Ampt Set:

Vertical Layers Set:

Impervious Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight: 0.5 dec
Fact:
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain: Global
Opt:

Rainfall Name: ~FDOT-24
Rainfall Amount: 7.16 in
Storm Duration: 24.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area: 100 ft2
(1D):
Energy Switch (1D): Energy

Comment:

Simulation: 010-Yr 72-Hr

Scenario: PROPOSED
Run Date/Time: 2/26/2026 1:02:19 PM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	72.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight: 0.5 dec
Fact:
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain: Global
Opt:Rainfall Name: ~FDOT-72
Rainfall Amount: 9.57 in

Storm Duration: 72.0000 hr
 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area 100 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 025-Yr 01-Hr

Scenario: PROPOSED
 Run Date/Time: 2/26/2026 1:02:21 PM
 Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	2.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set:

Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	
Over-Relax Weight 0.5 dec	Ia/S: 0.20 dec
Fact:	
dZ Tolerance: 0.0010 ft	
Max dZ: 1.0000 ft	Smp/Man Basin Rain Global
	Opt:
Link Optimizer Tol: 0.0001 ft	
	Rainfall Name: ~FDOT-1
	Rainfall Amount: 3.33 in
	Storm Duration: 1.0000 hr
	Dflt Damping (1D): 0.0050 ft
	Min Node Srf Area 100 ft2
	(1D):
	Energy Switch (1D): Energy

Comment:

Simulation: 025-Yr 02-Hr

Scenario: PROPOSED
Run Date/Time: 2/26/2026 1:02:22 PM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	4.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:

Extern Hydrograph Set:

Curve Number Set:

Green-Ampt Set:

Vertical Layers Set:

Impervious Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight: 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain: Global
 Opt:

Rainfall Name: ~FDOT-2
 Rainfall Amount: 4.20 in
 Storm Duration: 2.0000 hr
 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area: 100 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 025-Yr 04-Hr

Scenario: PROPOSED
 Run Date/Time: 2/26/2026 1:02:22 PM
 Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	4.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:

Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight: 0.5 dec
Fact:
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain: Global
Opt:

Rainfall Name: ~FDOT-4
Rainfall Amount: 5.20 in
Storm Duration: 4.0000 hr
Dflt Damping (1D): 0.0050 ft

Min Node Srf Area 100 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 025-Yr 08-Hr

Scenario: PROPOSED
 Run Date/Time: 2/26/2026 1:02:22 PM
 Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	8.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set:

Green-Ampt Set:
 Vertical Layers Set:

Impervious Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
 Ia/S: 0.20 dec
 Smp/Man Basin Rain Global
 Opt:
 Rainfall Name: ~FDOT-8
 Rainfall Amount: 6.45 in
 Storm Duration: 8.0000 hr
 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area 100 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 025-Yr 24-Hr

Scenario: PROPOSED
 Run Date/Time: 2/26/2026 1:02:23 PM
 Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	24.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph

Folder:

Lookup Tables

Boundary Stage Set:

Extern Hydrograph Set:

Curve Number Set:

Green-Ampt Set:

Vertical Layers Set:

Impervious Set:

Tolerances & Options

Time Marching: SAOR

Max Iterations: 6

Over-Relax Weight 0.5 dec

Fact:

dZ Tolerance: 0.0010 ft

Max dZ: 1.0000 ft

Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain Global

Opt:

Rainfall Name: ~FDOT-24

Rainfall Amount: 9.26 in

Storm Duration: 24.0000 hr

Dflt Damping (1D): 0.0050 ft

Min Node Srf Area 100 ft2

(1D):

Energy Switch (1D): Energy

Comment:

Simulation: 025-Yr 72-Hr

Scenario: PROPOSED

Run Date/Time: 2/26/2026 1:02:24 PM

Program Version: StormWise 4.08.03

General

Run Mode: Normal

Year

Month

Day

Hour [hr]

Start Time: 0 0 0 0.0000
 End Time: 0 0 0 72.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set:

Green-Ampt Set:
 Vertical Layers Set:
 Impervious Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain Global
 Opt:

Rainfall Name: ~FDOT-72
 Rainfall Amount: 12.40 in
 Storm Duration: 72.0000 hr
 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area 100 ft2
 (1D):

Energy Switch (1D): Energy

Comment:

Simulation: 050-Yr 01-Hr

Scenario: PROPOSED
Run Date/Time: 2/26/2026 1:02:27 PM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	2.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:

Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	
Over-Relax Weight 0.5 dec	Ia/S: 0.20 dec
Fact:	
dZ Tolerance: 0.0010 ft	
Max dZ: 1.0000 ft	Smp/Man Basin Rain Global
	Opt:
Link Optimizer Tol: 0.0001 ft	
	Rainfall Name: ~FDOT-1
	Rainfall Amount: 3.70 in
	Storm Duration: 1.0000 hr
	Dflt Damping (1D): 0.0050 ft
	Min Node Srf Area 100 ft2
	(1D):
	Energy Switch (1D): Energy

Comment:

Simulation: 050-Yr 02-Hr

Scenario: PROPOSED
Run Date/Time: 2/26/2026 1:02:28 PM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	4.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
------	-------	-----	-----------	----------------------

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:

Extern Hydrograph Set:

Curve Number Set:

Green-Ampt Set:

Vertical Layers Set:

Impervious Set:

Tolerances & Options

Time Marching: SAOR

Max Iterations: 6

Over-Relax Weight 0.5 dec

Fact:

dZ Tolerance: 0.0010 ft

Max dZ: 1.0000 ft

Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain Global
Opt:

Rainfall Name: ~FDOT-2

Rainfall Amount: 4.68 in

Storm Duration: 2.0000 hr

Dflt Damping (1D): 0.0050 ft

Min Node Srf Area 100 ft2

(1D):

Energy Switch (1D): Energy

Comment:

Simulation: 050-Yr 04-Hr

Scenario: PROPOSED

Run Date/Time: 2/26/2026 1:02:28 PM

Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000

End Time: 0 0 0 4.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:

Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight: 0.5 dec
Fact:
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain: Global
Opt:

Rainfall Name: ~FDOT-4
Rainfall Amount: 5.90 in
Storm Duration: 4.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area: 100 ft2
(1D):
Energy Switch (1D): Energy

Comment:

Simulation: 050-Yr 08-Hr

Scenario: PROPOSED
Run Date/Time: 2/26/2026 1:02:29 PM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	8.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:

Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight: 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
 Ia/S: 0.20 dec
 Smp/Man Basin Rain Opt: Global
 Rainfall Name: ~FDOT-8
 Rainfall Amount: 7.51 in
 Storm Duration: 8.0000 hr
 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area: 100 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 050-Yr 24-Hr

Scenario: PROPOSED
 Run Date/Time: 2/26/2026 1:02:29 PM
 Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	24.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:

Extern Hydrograph Set:

Curve Number Set:

Green-Ampt Set:

Vertical Layers Set:

Impervious Set:

Tolerances & Options

Time Marching: SAOR

Max Iterations: 6

Over-Relax Weight 0.5 dec

Fact:

dZ Tolerance: 0.0010 ft

Max dZ: 1.0000 ft

Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain Global

Opt:

Rainfall Name: ~FDOT-24

Rainfall Amount: 11.20 in

Storm Duration: 24.0000 hr

Dflt Damping (1D): 0.0050 ft

Min Node Srf Area 100 ft2

(1D):

Energy Switch (1D): Energy

Comment:

Simulation: 050-Yr 72-Hr

Scenario: PROPOSED

Run Date/Time: 2/26/2026 1:02:31 PM

Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	72.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight: 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain: Global
Opt:

Rainfall Name: ~FDOT-72
 Rainfall Amount: 14.90 in
 Storm Duration: 72.0000 hr
 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area: 100 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 100-Yr 01-Hr

Scenario: PROPOSED
 Run Date/Time: 2/26/2026 1:02:35 PM
 Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	2.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set:

Green-Ampt Set:
 Vertical Layers Set:
 Impervious Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft

IA Recovery Time: 24.0000 hr
 Ia/S: 0.20 dec

Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

Smp/Man Basin Rain Global
Opt:

Rainfall Name: ~FDOT-1
Rainfall Amount: 4.08 in
Storm Duration: 1.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area 100 ft2
(1D):
Energy Switch (1D): Energy

Comment:

Simulation: 100-Yr 02-Hr

Scenario: PROPOSED
Run Date/Time: 2/26/2026 1:02:36 PM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	4.0000
	Hydrology [sec]	Surface Hydraulics [sec]		
Min Calculation Time:	60.0000	0.1000		
Max Calculation Time:		30.0000		

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources	Lookup Tables
Rainfall Folder:	Boundary Stage Set:
Unit Hydrograph Folder:	Extern Hydrograph Set:
	Curve Number Set:
	Green-Ampt Set:
	Vertical Layers Set:
	Impervious Set:

Tolerances & Options	
Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	
Over-Relax Weight: 0.5 dec	Ia/S: 0.20 dec
Fact:	
dZ Tolerance: 0.0010 ft	
Max dZ: 1.0000 ft	Smp/Man Basin Rain Global
	Opt:
Link Optimizer Tol: 0.0001 ft	
	Rainfall Name: ~FDOT-2
	Rainfall Amount: 5.18 in
	Storm Duration: 2.0000 hr
	Dflt Damping (1D): 0.0050 ft
	Min Node Srf Area 100 ft2
	(1D):
	Energy Switch (1D): Energy

Comment:

Simulation: 100-Yr 04-Hr				
Scenario:	PROPOSED			
Run Date/Time:	2/26/2026 1:02:36 PM			
Program Version:	StormWise 4.08.03			

General				
Run Mode:	Normal			
	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	4.0000
	Hydrology [sec]	Surface Hydraulics [sec]		
Min Calculation Time:	60.0000	0.1000		
Max Calculation Time:		30.0000		

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight: 0.5 dec
Fact:
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ftIA Recovery Time: 24.0000 hr
Ia/S: 0.20 dec
Smp/Man Basin Rain Opt: Global
Rainfall Name: ~FDOT-4
Rainfall Amount: 6.64 in
Storm Duration: 4.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (1D): 100 ft2
Energy Switch (1D): Energy

Comment:

Simulation: 100-Yr 08-Hr

Scenario: PROPOSED

Run Date/Time: 2/26/2026 1:02:37 PM
 Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	8.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set:

Green-Ampt Set:
 Vertical Layers Set:
 Impervious Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight: 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft

IA Recovery Time: 24.0000 hr
 Ia/S: 0.20 dec
 Smp/Man Basin Rain: Global
 Opt:

Link Optimizer Tol: 0.0001 ft

Rainfall Name: ~FDOT-8
 Rainfall Amount: 8.68 in
 Storm Duration: 8.0000 hr
 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area 100 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 100-Yr 24-Hr

Scenario: PROPOSED
 Run Date/Time: 2/26/2026 1:02:37 PM
 Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	24.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Lookup Tables

Boundary Stage Set:

Unit Hydrograph
Folder:

Extern Hydrograph Set:
Curve Number Set:

Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight: 0.5 dec
Fact:
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain: Global
Opt:

Rainfall Name: ~FDOT-24
Rainfall Amount: 13.40 in
Storm Duration: 24.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area: 100 ft2
(1D):
Energy Switch (1D): Energy

Comment:

Simulation: 100-Yr 72-Hr

Scenario: PROPOSED
Run Date/Time: 2/26/2026 1:02:40 PM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	72.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:

Extern Hydrograph Set:

Curve Number Set:

Green-Ampt Set:

Vertical Layers Set:

Impervious Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight: 0.5 dec
Fact:
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr

Ia/S: 0.20 dec

Smp/Man Basin Rain: Global
Opt:

Rainfall Name: ~FDOT-72
Rainfall Amount: 17.70 in
Storm Duration: 72.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area: 100 ft2
(1D):
Energy Switch (1D): Energy

Comment:

Simulation: SLUG

Scenario: PROPOSED
Run Date/Time: 2/26/2026 1:02:45 PM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	72.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight: 0.5 dec
Fact:
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ftIA Recovery Time: 24.0000 hr
Ia/S: 0.20 dec
Smp/Man Basin Rain: Global
Opt:
Rainfall Name: ~FLMOD

Rainfall Amount: 0.00 in
 Storm Duration: 72.0000 hr
 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area 100 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: SWFWMD 100YR24HR

Scenario: PROPOSED
 Run Date/Time: 2/26/2026 1:02:48 PM
 Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	24.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set:

Folder:

Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	
Over-Relax Weight 0.5 dec	Ia/S: 0.20 dec
Fact:	
dZ Tolerance: 0.0010 ft	
Max dZ: 1.0000 ft	Smp/Man Basin Rain Global
	Opt:
Link Optimizer Tol: 0.0001 ft	
	Rainfall Name: ~FLMOD
	Rainfall Amount: 12.00 in
	Storm Duration: 24.0000 hr
	Dflt Damping (1D): 0.0050 ft
	Min Node Srf Area 100 ft2
	(1D):
	Energy Switch (1D): Energy

Comment:

Simulation: SWFWMD 25YR24HR

Scenario: PROPOSED
Run Date/Time: 2/26/2026 1:02:51 PM
Program Version: StormWise 4.08.03

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	24.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
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Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:

Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight: 0.5 dec
Fact:
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
Ia/S: 0.20 dec

Smp/Man Basin Rain: Global
Opt:

Rainfall Name: ~FLMOD
Rainfall Amount: 9.00 in
Storm Duration: 24.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area: 100 ft2
(1D):
Energy Switch (1D): Energy

Comment:

Simulation: SWFWMD 50YR24HR

Scenario: PROPOSED
Run Date/Time: 2/26/2026 1:02:53 PM
Program Version: StormWise 4.08.03

General				
Run Mode: Normal				
	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	24.0000
	Hydrology [sec]	Surface Hydraulics [sec]		
Min Calculation Time:	60.0000	0.1000		
Max Calculation Time:		30.0000		
Output Time Increments				
Hydrology				
Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000
Surface Hydraulics				
Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000
Restart File				
Save Restart: False				
Resources & Lookup Tables				
Resources		Lookup Tables		
Rainfall Folder:		Boundary Stage Set:		
Unit Hydrograph Folder:		Extern Hydrograph Set:		
		Curve Number Set:		
		Green-Ampt Set:		
		Vertical Layers Set:		
		Impervious Set:		
Tolerances & Options				
Time Marching: SAOR		IA Recovery Time: 24.0000 hr		
Max Iterations: 6				
Over-Relax Weight: 0.5 dec		Ia/S: 0.20 dec		
Fact:				
dZ Tolerance: 0.0010 ft				
Max dZ: 1.0000 ft		Smp/Man Basin Rain: Global		
		Opt:		
Link Optimizer Tol: 0.0001 ft		Rainfall Name: ~FLMOD		
		Rainfall Amount: 10.00 in		

Storm Duration: 24.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area 100 ft2
(1D):
Energy Switch (1D): Energy

Comment:

Simple Basin : Multi Item | (sim, name) : Runoff Summary [EXISTING]

Sim Name	Basin Name	Max Flow [cfs]	Time to Max Flow [hrs]	Total Rainfall [in]	Total Runoff [in]	Area [ac]
003-Yr 01-Hr	EX-BASIN 1	0.18	0.8167	2.34	0.18	0.4700
003-Yr 01-Hr	EX-BASIN 2	0.33	0.8167	2.34	0.18	0.8500
003-Yr 01-Hr	EX-BASIN 3	0.14	0.8167	2.34	0.18	0.3800
003-Yr 01-Hr	EX-BASIN 4	0.09	0.9500	2.34	0.17	0.3600
003-Yr 01-Hr	EX-BASIN 5	0.09	0.8167	2.34	0.18	0.2300
003-Yr 02-Hr	EX-BASIN 1	0.17	1.0333	2.90	0.38	0.4700
003-Yr 02-Hr	EX-BASIN 2	0.30	1.0333	2.90	0.38	0.8500
003-Yr 02-Hr	EX-BASIN 3	0.13	1.0500	2.90	0.38	0.3800
003-Yr 02-Hr	EX-BASIN 4	0.09	1.2333	2.90	0.38	0.3600
003-Yr 02-Hr	EX-BASIN 5	0.08	1.0333	2.90	0.38	0.2300
003-Yr 04-Hr	EX-BASIN 1	0.20	2.5667	3.39	0.57	0.4700
003-Yr 04-Hr	EX-BASIN 2	0.36	2.5667	3.39	0.57	0.8500
003-Yr 04-Hr	EX-BASIN 3	0.16	2.5667	3.39	0.57	0.3800
003-Yr 04-Hr	EX-BASIN 4	0.13	3.0667	3.39	0.52	0.3600
003-Yr 04-Hr	EX-BASIN 5	0.10	2.5667	3.39	0.57	0.2300
003-Yr 08-Hr	EX-BASIN 1	0.23	4.0333	3.94	0.85	0.4700
003-Yr 08-Hr	EX-BASIN 2	0.42	4.0333	3.94	0.85	0.8500
003-Yr 08-Hr	EX-BASIN 3	0.18	4.0500	3.94	0.85	0.3800
003-Yr 08-Hr	EX-BASIN 4	0.13	4.1667	3.94	0.83	0.3600
003-Yr 08-Hr	EX-BASIN 5	0.11	4.0333	3.94	0.85	0.2300
003-Yr 24-Hr	EX-BASIN 1	0.08	12.0167	5.09	1.53	0.4700
003-Yr 24-Hr	EX-BASIN 2	0.15	12.0167	5.09	1.53	0.8500
003-Yr 24-Hr	EX-BASIN 3	0.07	12.0333	5.09	1.53	0.3800
003-Yr 24-Hr	EX-BASIN 4	0.06	12.1333	5.09	1.52	0.3600
003-Yr 24-Hr	EX-BASIN 5	0.04	12.0167	5.09	1.53	0.2300
003-Yr 72-Hr	EX-BASIN 1	0.10	59.9833	6.76	2.68	0.4700
003-Yr 72-Hr	EX-BASIN 2	0.19	59.9833	6.76	2.68	0.8500
003-Yr 72-Hr	EX-BASIN 3	0.08	59.9833	6.76	2.68	0.3800
003-Yr 72-Hr	EX-BASIN 4	0.08	60.0000	6.76	2.67	0.3600
003-Yr 72-Hr	EX-BASIN 5	0.05	59.9833	6.76	2.68	0.2300
005-Yr 01-Hr	EX-BASIN 1	0.25	0.8000	2.57	0.26	0.4700
005-Yr 01-Hr	EX-BASIN 2	0.44	0.8000	2.57	0.26	0.8500
005-Yr 01-Hr	EX-BASIN 3	0.19	0.8167	2.57	0.26	0.3800
005-Yr 01-Hr	EX-BASIN 4	0.12	0.9333	2.57	0.24	0.3600
005-Yr 01-Hr	EX-BASIN 5	0.12	0.8000	2.57	0.26	0.2300
005-Yr 02-Hr	EX-BASIN 1	0.23	0.9333	3.21	0.51	0.4700
005-Yr 02-Hr	EX-BASIN 2	0.42	0.9333	3.21	0.51	0.8500
005-Yr 02-Hr	EX-BASIN 3	0.18	1.0000	3.21	0.51	0.3800
005-Yr 02-Hr	EX-BASIN 4	0.13	1.1833	3.21	0.51	0.3600
005-Yr 02-Hr	EX-BASIN 5	0.11	0.9333	3.21	0.51	0.2300
005-Yr 04-Hr	EX-BASIN 1	0.26	2.5500	3.80	0.77	0.4700
005-Yr 04-Hr	EX-BASIN 2	0.48	2.5500	3.80	0.77	0.8500
005-Yr 04-Hr	EX-BASIN 3	0.21	2.5667	3.80	0.77	0.3800
005-Yr 04-Hr	EX-BASIN 4	0.17	3.0500	3.80	0.70	0.3600
005-Yr 04-Hr	EX-BASIN 5	0.13	2.5500	3.80	0.77	0.2300
005-Yr 08-Hr	EX-BASIN 1	0.31	4.0333	4.47	1.14	0.4700
005-Yr 08-Hr	EX-BASIN 2	0.56	4.0333	4.47	1.14	0.8500

Sim Name	Basin Name	Max Flow [cfs]	Time to Max Flow [hrs]	Total Rainfall [in]	Total Runoff [in]	Area [ac]
005-Yr 08-Hr	EX-BASIN 3	0.25	4.0333	4.47	1.14	0.3800
005-Yr 08-Hr	EX-BASIN 4	0.18	4.1500	4.47	1.11	0.3600
005-Yr 08-Hr	EX-BASIN 5	0.15	4.0333	4.47	1.14	0.2300
005-Yr 24-Hr	EX-BASIN 1	0.12	12.0167	5.90	2.06	0.4700
005-Yr 24-Hr	EX-BASIN 2	0.21	12.0167	5.90	2.06	0.8500
005-Yr 24-Hr	EX-BASIN 3	0.09	12.0167	5.90	2.06	0.3800
005-Yr 24-Hr	EX-BASIN 4	0.08	12.1167	5.90	2.05	0.3600
005-Yr 24-Hr	EX-BASIN 5	0.06	12.0167	5.90	2.06	0.2300
005-Yr 72-Hr	EX-BASIN 1	0.13	59.9833	7.87	3.51	0.4700
005-Yr 72-Hr	EX-BASIN 2	0.24	59.9833	7.87	3.51	0.8500
005-Yr 72-Hr	EX-BASIN 3	0.11	59.9833	7.87	3.51	0.3800
005-Yr 72-Hr	EX-BASIN 4	0.10	60.0000	7.87	3.50	0.3600
005-Yr 72-Hr	EX-BASIN 5	0.06	59.9833	7.87	3.51	0.2300
010-Yr 01-Hr	EX-BASIN 1	0.35	0.7833	2.88	0.37	0.4700
010-Yr 01-Hr	EX-BASIN 2	0.63	0.7833	2.88	0.37	0.8500
010-Yr 01-Hr	EX-BASIN 3	0.27	0.8000	2.88	0.37	0.3800
010-Yr 01-Hr	EX-BASIN 4	0.17	0.9167	2.88	0.34	0.3600
010-Yr 01-Hr	EX-BASIN 5	0.17	0.7833	2.88	0.37	0.2300
010-Yr 02-Hr	EX-BASIN 1	0.33	0.9167	3.61	0.69	0.4700
010-Yr 02-Hr	EX-BASIN 2	0.60	0.9167	3.61	0.69	0.8500
010-Yr 02-Hr	EX-BASIN 3	0.26	0.9167	3.61	0.69	0.3800
010-Yr 02-Hr	EX-BASIN 4	0.18	1.1500	3.61	0.69	0.3600
010-Yr 02-Hr	EX-BASIN 5	0.16	0.9167	3.61	0.69	0.2300
010-Yr 04-Hr	EX-BASIN 1	0.36	2.5500	4.36	1.07	0.4700
010-Yr 04-Hr	EX-BASIN 2	0.65	2.5500	4.36	1.07	0.8500
010-Yr 04-Hr	EX-BASIN 3	0.29	2.5500	4.36	1.07	0.3800
010-Yr 04-Hr	EX-BASIN 4	0.22	3.0333	4.36	0.98	0.3600
010-Yr 04-Hr	EX-BASIN 5	0.17	2.5500	4.36	1.07	0.2300
010-Yr 08-Hr	EX-BASIN 1	0.44	4.0333	5.23	1.60	0.4700
010-Yr 08-Hr	EX-BASIN 2	0.79	4.0333	5.23	1.60	0.8500
010-Yr 08-Hr	EX-BASIN 3	0.35	4.0333	5.23	1.60	0.3800
010-Yr 08-Hr	EX-BASIN 4	0.26	4.1500	5.23	1.56	0.3600
010-Yr 08-Hr	EX-BASIN 5	0.21	4.0333	5.23	1.60	0.2300
010-Yr 24-Hr	EX-BASIN 1	0.17	12.0167	7.16	2.96	0.4700
010-Yr 24-Hr	EX-BASIN 2	0.31	12.0167	7.16	2.96	0.8500
010-Yr 24-Hr	EX-BASIN 3	0.14	12.0167	7.16	2.96	0.3800
010-Yr 24-Hr	EX-BASIN 4	0.12	12.1167	7.16	2.95	0.3600
010-Yr 24-Hr	EX-BASIN 5	0.08	12.0167	7.16	2.96	0.2300
010-Yr 72-Hr	EX-BASIN 1	0.17	59.9667	9.57	4.87	0.4700
010-Yr 72-Hr	EX-BASIN 2	0.31	59.9667	9.57	4.87	0.8500
010-Yr 72-Hr	EX-BASIN 3	0.14	59.9667	9.57	4.87	0.3800
010-Yr 72-Hr	EX-BASIN 4	0.13	60.0000	9.57	4.86	0.3600
010-Yr 72-Hr	EX-BASIN 5	0.08	59.9667	9.57	4.87	0.2300
025-Yr 01-Hr	EX-BASIN 1	0.51	0.7667	3.33	0.56	0.4700
025-Yr 01-Hr	EX-BASIN 2	0.93	0.7667	3.33	0.56	0.8500
025-Yr 01-Hr	EX-BASIN 3	0.41	0.7833	3.33	0.56	0.3800
025-Yr 01-Hr	EX-BASIN 4	0.26	0.9167	3.33	0.52	0.3600
025-Yr 01-Hr	EX-BASIN 5	0.25	0.7667	3.33	0.56	0.2300

Sim Name	Basin Name	Max Flow [cfs]	Time to Max Flow [hrs]	Total Rainfall [in]	Total Runoff [in]	Area [ac]
025-Yr 02-Hr	EX-BASIN 1	0.50	0.9000	4.20	1.00	0.4700
025-Yr 02-Hr	EX-BASIN 2	0.91	0.9000	4.20	1.00	0.8500
025-Yr 02-Hr	EX-BASIN 3	0.40	0.9167	4.20	1.00	0.3800
025-Yr 02-Hr	EX-BASIN 4	0.26	1.1333	4.20	1.01	0.3600
025-Yr 02-Hr	EX-BASIN 5	0.25	0.9000	4.20	1.00	0.2300
025-Yr 04-Hr	EX-BASIN 1	0.51	2.5333	5.20	1.57	0.4700
025-Yr 04-Hr	EX-BASIN 2	0.92	2.5333	5.20	1.57	0.8500
025-Yr 04-Hr	EX-BASIN 3	0.41	2.5500	5.20	1.57	0.3800
025-Yr 04-Hr	EX-BASIN 4	0.32	2.6833	5.20	1.46	0.3600
025-Yr 04-Hr	EX-BASIN 5	0.25	2.5333	5.20	1.57	0.2300
025-Yr 08-Hr	EX-BASIN 1	0.66	4.0167	6.45	2.42	0.4700
025-Yr 08-Hr	EX-BASIN 2	1.19	4.0167	6.45	2.42	0.8500
025-Yr 08-Hr	EX-BASIN 3	0.53	4.0333	6.45	2.42	0.3800
025-Yr 08-Hr	EX-BASIN 4	0.40	4.1333	6.45	2.37	0.3600
025-Yr 08-Hr	EX-BASIN 5	0.32	4.0167	6.45	2.42	0.2300
025-Yr 24-Hr	EX-BASIN 1	0.27	12.0167	9.26	4.61	0.4700
025-Yr 24-Hr	EX-BASIN 2	0.48	12.0167	9.26	4.61	0.8500
025-Yr 24-Hr	EX-BASIN 3	0.21	12.0167	9.26	4.61	0.3800
025-Yr 24-Hr	EX-BASIN 4	0.19	12.1000	9.26	4.59	0.3600
025-Yr 24-Hr	EX-BASIN 5	0.13	12.0167	9.26	4.61	0.2300
025-Yr 72-Hr	EX-BASIN 1	0.24	59.9500	12.40	7.29	0.4700
025-Yr 72-Hr	EX-BASIN 2	0.44	59.9500	12.40	7.29	0.8500
025-Yr 72-Hr	EX-BASIN 3	0.20	59.9667	12.40	7.29	0.3800
025-Yr 72-Hr	EX-BASIN 4	0.19	60.0000	12.40	7.28	0.3600
025-Yr 72-Hr	EX-BASIN 5	0.12	59.9500	12.40	7.29	0.2300
050-Yr 01-Hr	EX-BASIN 1	0.66	0.7667	3.70	0.74	0.4700
050-Yr 01-Hr	EX-BASIN 2	1.20	0.7667	3.70	0.74	0.8500
050-Yr 01-Hr	EX-BASIN 3	0.53	0.7667	3.70	0.74	0.3800
050-Yr 01-Hr	EX-BASIN 4	0.34	0.9000	3.70	0.69	0.3600
050-Yr 01-Hr	EX-BASIN 5	0.33	0.7667	3.70	0.74	0.2300
050-Yr 02-Hr	EX-BASIN 1	0.65	0.9000	4.68	1.28	0.4700
050-Yr 02-Hr	EX-BASIN 2	1.18	0.9000	4.68	1.28	0.8500
050-Yr 02-Hr	EX-BASIN 3	0.52	0.9000	4.68	1.28	0.3800
050-Yr 02-Hr	EX-BASIN 4	0.34	1.1167	4.68	1.28	0.3600
050-Yr 02-Hr	EX-BASIN 5	0.32	0.9000	4.68	1.28	0.2300
050-Yr 04-Hr	EX-BASIN 1	0.64	2.5333	5.90	2.03	0.4700
050-Yr 04-Hr	EX-BASIN 2	1.16	2.5333	5.90	2.03	0.8500
050-Yr 04-Hr	EX-BASIN 3	0.52	2.5333	5.90	2.02	0.3800
050-Yr 04-Hr	EX-BASIN 4	0.41	2.6667	5.90	1.89	0.3600
050-Yr 04-Hr	EX-BASIN 5	0.31	2.5333	5.90	2.03	0.2300
050-Yr 08-Hr	EX-BASIN 1	0.86	4.0167	7.51	3.20	0.4700
050-Yr 08-Hr	EX-BASIN 2	1.55	4.0167	7.51	3.20	0.8500
050-Yr 08-Hr	EX-BASIN 3	0.69	4.0167	7.51	3.20	0.3800
050-Yr 08-Hr	EX-BASIN 4	0.52	4.1167	7.51	3.14	0.3600
050-Yr 08-Hr	EX-BASIN 5	0.42	4.0167	7.51	3.20	0.2300
050-Yr 24-Hr	EX-BASIN 1	0.36	12.0000	11.20	6.23	0.4700
050-Yr 24-Hr	EX-BASIN 2	0.65	12.0000	11.20	6.23	0.8500
050-Yr 24-Hr	EX-BASIN 3	0.29	12.0000	11.20	6.23	0.3800

Sim Name	Basin Name	Max Flow [cfs]	Time to Max Flow [hrs]	Total Rainfall [in]	Total Runoff [in]	Area [ac]
050-Yr 24-Hr	EX-BASIN 4	0.26	12.0833	11.20	6.21	0.3600
050-Yr 24-Hr	EX-BASIN 5	0.18	12.0000	11.20	6.23	0.2300
050-Yr 72-Hr	EX-BASIN 1	0.31	59.9500	14.90	9.52	0.4700
050-Yr 72-Hr	EX-BASIN 2	0.55	59.9500	14.90	9.52	0.8500
050-Yr 72-Hr	EX-BASIN 3	0.25	59.9500	14.90	9.52	0.3800
050-Yr 72-Hr	EX-BASIN 4	0.23	60.0000	14.90	9.50	0.3600
050-Yr 72-Hr	EX-BASIN 5	0.15	59.9500	14.90	9.52	0.2300
100-Yr 01-Hr	EX-BASIN 1	0.84	0.7500	4.08	0.94	0.4700
100-Yr 01-Hr	EX-BASIN 2	1.51	0.7500	4.08	0.94	0.8500
100-Yr 01-Hr	EX-BASIN 3	0.66	0.7500	4.08	0.94	0.3800
100-Yr 01-Hr	EX-BASIN 4	0.42	0.9000	4.08	0.88	0.3600
100-Yr 01-Hr	EX-BASIN 5	0.41	0.7500	4.08	0.94	0.2300
100-Yr 02-Hr	EX-BASIN 1	0.82	0.9000	5.18	1.59	0.4700
100-Yr 02-Hr	EX-BASIN 2	1.49	0.9000	5.18	1.59	0.8500
100-Yr 02-Hr	EX-BASIN 3	0.65	0.9000	5.18	1.59	0.3800
100-Yr 02-Hr	EX-BASIN 4	0.43	1.1000	5.18	1.59	0.3600
100-Yr 02-Hr	EX-BASIN 5	0.40	0.9000	5.18	1.59	0.2300
100-Yr 04-Hr	EX-BASIN 1	0.79	2.5333	6.64	2.54	0.4700
100-Yr 04-Hr	EX-BASIN 2	1.42	2.5333	6.64	2.54	0.8500
100-Yr 04-Hr	EX-BASIN 3	0.63	2.5333	6.64	2.54	0.3800
100-Yr 04-Hr	EX-BASIN 4	0.51	2.6667	6.64	2.37	0.3600
100-Yr 04-Hr	EX-BASIN 5	0.39	2.5333	6.64	2.54	0.2300
100-Yr 08-Hr	EX-BASIN 1	1.09	4.0167	8.68	4.11	0.4700
100-Yr 08-Hr	EX-BASIN 2	1.97	4.0167	8.68	4.11	0.8500
100-Yr 08-Hr	EX-BASIN 3	0.87	4.0167	8.68	4.10	0.3800
100-Yr 08-Hr	EX-BASIN 4	0.68	4.1167	8.68	4.03	0.3600
100-Yr 08-Hr	EX-BASIN 5	0.53	4.0167	8.68	4.11	0.2300
100-Yr 24-Hr	EX-BASIN 1	0.47	12.0000	13.40	8.16	0.4700
100-Yr 24-Hr	EX-BASIN 2	0.84	12.0000	13.40	8.16	0.8500
100-Yr 24-Hr	EX-BASIN 3	0.38	12.0000	13.40	8.15	0.3800
100-Yr 24-Hr	EX-BASIN 4	0.34	12.0833	13.40	8.12	0.3600
100-Yr 24-Hr	EX-BASIN 5	0.23	12.0000	13.40	8.16	0.2300
100-Yr 72-Hr	EX-BASIN 1	0.37	59.9333	17.70	12.09	0.4700
100-Yr 72-Hr	EX-BASIN 2	0.68	59.9333	17.70	12.09	0.8500
100-Yr 72-Hr	EX-BASIN 3	0.30	59.9500	17.70	12.09	0.3800
100-Yr 72-Hr	EX-BASIN 4	0.29	60.0000	17.70	12.07	0.3600
100-Yr 72-Hr	EX-BASIN 5	0.18	59.9333	17.70	12.09	0.2300
SWFWMD 25YR24HR	EX-BASIN 1	1.46	12.0500	9.00	4.40	0.4700
SWFWMD 25YR24HR	EX-BASIN 2	2.63	12.0500	9.00	4.40	0.8500
SWFWMD 25YR24HR	EX-BASIN 3	1.15	12.0667	9.00	4.40	0.3800
SWFWMD 25YR24HR	EX-BASIN 4	0.77	12.2000	9.00	4.37	0.3600
SWFWMD 25YR24HR	EX-BASIN 5	0.71	12.0500	9.00	4.40	0.2300
SWFWMD	EX-BASIN 1	1.73	12.0500	10.00	5.22	0.4700

Sim Name	Basin Name	Max Flow [cfs]	Time to Max Flow [hrs]	Total Rainfall [in]	Total Runoff [in]	Area [ac]
50YR24HR						
SWFWMD 50YR24HR	EX-BASIN 2	3.14	12.0500	10.00	5.22	0.8500
SWFWMD 50YR24HR	EX-BASIN 3	1.37	12.0667	10.00	5.22	0.3800
SWFWMD 50YR24HR	EX-BASIN 4	0.92	12.2000	10.00	5.19	0.3600
SWFWMD 50YR24HR	EX-BASIN 5	0.85	12.0500	10.00	5.22	0.2300

Simple Basin : Multi Item | (sim, name) : Runoff Summary [PROPOSED]

Sim Name	Basin Name	Max Flow [cfs]	Time to Max Flow [hrs]	Total Rainfall [in]	Total Runoff [in]	Area [ac]
003-Yr 01-Hr	PRO. BASIN 1	1.91	0.7333	2.34	0.69	1.5000
003-Yr 01-Hr	PRO. BASIN 2	1.86	0.6833	2.34	1.32	0.8000
003-Yr 02-Hr	PRO. BASIN 1	1.77	0.8833	2.90	1.06	1.5000
003-Yr 02-Hr	PRO. BASIN 2	1.66	0.8667	2.90	1.82	0.8000
003-Yr 04-Hr	PRO. BASIN 1	1.35	2.5167	3.39	1.38	1.5000
003-Yr 04-Hr	PRO. BASIN 2	1.04	2.0667	3.39	2.23	0.8000
003-Yr 08-Hr	PRO. BASIN 1	1.54	4.0167	3.94	1.81	1.5000
003-Yr 08-Hr	PRO. BASIN 2	1.14	4.0000	3.94	2.75	0.8000
003-Yr 24-Hr	PRO. BASIN 1	0.51	12.0000	5.09	2.77	1.5000
003-Yr 24-Hr	PRO. BASIN 2	0.36	12.0000	5.09	3.85	0.8000
003-Yr 72-Hr	PRO. BASIN 1	0.44	59.9500	6.76	4.25	1.5000
003-Yr 72-Hr	PRO. BASIN 2	0.26	59.9167	6.76	5.47	0.8000
005-Yr 01-Hr	PRO. BASIN 1	2.30	0.7333	2.57	0.83	1.5000
005-Yr 01-Hr	PRO. BASIN 2	2.13	0.6667	2.57	1.52	0.8000
005-Yr 02-Hr	PRO. BASIN 1	2.16	0.8833	3.21	1.28	1.5000
005-Yr 02-Hr	PRO. BASIN 2	1.92	0.8500	3.21	2.10	0.8000
005-Yr 04-Hr	PRO. BASIN 1	1.62	2.5167	3.80	1.69	1.5000
005-Yr 04-Hr	PRO. BASIN 2	1.22	2.0667	3.80	2.60	0.8000
005-Yr 08-Hr	PRO. BASIN 1	1.88	4.0167	4.47	2.24	1.5000
005-Yr 08-Hr	PRO. BASIN 2	1.33	4.0000	4.47	3.24	0.8000
005-Yr 24-Hr	PRO. BASIN 1	0.64	12.0000	5.90	3.47	1.5000
005-Yr 24-Hr	PRO. BASIN 2	0.43	12.0000	5.90	4.63	0.8000
005-Yr 72-Hr	PRO. BASIN 1	0.53	59.9500	7.87	5.26	1.5000
005-Yr 72-Hr	PRO. BASIN 2	0.31	59.9167	7.87	6.55	0.8000
010-Yr 01-Hr	PRO. BASIN 1	2.85	0.7167	2.88	1.04	1.5000
010-Yr 01-Hr	PRO. BASIN 2	2.51	0.6667	2.88	1.80	0.8000
010-Yr 02-Hr	PRO. BASIN 1	2.69	0.8833	3.61	1.58	1.5000
010-Yr 02-Hr	PRO. BASIN 2	2.25	0.8500	3.61	2.47	0.8000
010-Yr 04-Hr	PRO. BASIN 1	2.00	2.5167	4.36	2.14	1.5000
010-Yr 04-Hr	PRO. BASIN 2	1.45	2.0667	4.36	3.12	0.8000
010-Yr 08-Hr	PRO. BASIN 1	2.37	4.0167	5.23	2.87	1.5000
010-Yr 08-Hr	PRO. BASIN 2	1.60	4.0000	5.23	3.96	0.8000

Sim Name	Basin Name	Max Flow [cfs]	Time to Max Flow [hrs]	Total Rainfall [in]	Total Runoff [in]	Area [ac]
010-Yr 24-Hr	PRO. BASIN 1	0.84	12.0000	7.16	4.60	1.5000
010-Yr 24-Hr	PRO. BASIN 2	0.54	12.0000	7.16	5.85	0.8000
010-Yr 72-Hr	PRO. BASIN 1	0.66	59.9333	9.57	6.84	1.5000
010-Yr 72-Hr	PRO. BASIN 2	0.37	59.9167	9.57	8.22	0.8000
025-Yr 01-Hr	PRO. BASIN 1	3.70	0.7167	3.33	1.37	1.5000
025-Yr 01-Hr	PRO. BASIN 2	3.06	0.6667	3.33	2.21	0.8000
025-Yr 02-Hr	PRO. BASIN 1	3.50	0.8833	4.20	2.05	1.5000
025-Yr 02-Hr	PRO. BASIN 2	2.75	0.8500	4.20	3.02	0.8000
025-Yr 04-Hr	PRO. BASIN 1	2.57	2.5000	5.20	2.83	1.5000
025-Yr 04-Hr	PRO. BASIN 2	1.81	2.0500	5.20	3.91	0.8000
025-Yr 08-Hr	PRO. BASIN 1	3.18	4.0000	6.45	3.93	1.5000
025-Yr 08-Hr	PRO. BASIN 2	2.03	4.0000	6.45	5.13	0.8000
025-Yr 24-Hr	PRO. BASIN 1	1.17	12.0000	9.26	6.54	1.5000
025-Yr 24-Hr	PRO. BASIN 2	0.71	12.0000	9.26	7.91	0.8000
025-Yr 72-Hr	PRO. BASIN 1	0.88	59.9333	12.40	9.53	1.5000
025-Yr 72-Hr	PRO. BASIN 2	0.49	59.9167	12.40	11.02	0.8000
050-Yr 01-Hr	PRO. BASIN 1	4.43	0.7000	3.70	1.65	1.5000
050-Yr 01-Hr	PRO. BASIN 2	3.52	0.6667	3.70	2.55	0.8000
050-Yr 02-Hr	PRO. BASIN 1	4.18	0.8667	4.68	2.44	1.5000
050-Yr 02-Hr	PRO. BASIN 2	3.15	0.8500	4.68	3.47	0.8000
050-Yr 04-Hr	PRO. BASIN 1	3.05	2.5000	5.90	3.43	1.5000
050-Yr 04-Hr	PRO. BASIN 2	2.10	2.0500	5.90	4.58	0.8000
050-Yr 08-Hr	PRO. BASIN 1	3.89	4.0000	7.51	4.88	1.5000
050-Yr 08-Hr	PRO. BASIN 2	2.40	4.0000	7.51	6.16	0.8000
050-Yr 24-Hr	PRO. BASIN 1	1.48	12.0000	11.20	8.37	1.5000
050-Yr 24-Hr	PRO. BASIN 2	0.87	12.0000	11.20	9.82	0.8000
050-Yr 72-Hr	PRO. BASIN 1	1.07	59.9167	14.90	11.95	1.5000
050-Yr 72-Hr	PRO. BASIN 2	0.59	59.9167	14.90	13.49	0.8000
100-Yr 01-Hr	PRO. BASIN 1	5.21	0.7000	4.08	1.95	1.5000
100-Yr 01-Hr	PRO. BASIN 2	3.99	0.6500	4.08	2.90	0.8000
100-Yr 02-Hr	PRO. BASIN 1	4.91	0.8667	5.18	2.86	1.5000
100-Yr 02-Hr	PRO. BASIN 2	3.58	0.8500	5.18	3.95	0.8000
100-Yr 04-Hr	PRO. BASIN 1	3.59	2.0667	6.64	4.08	1.5000
100-Yr 04-Hr	PRO. BASIN 2	2.41	2.0500	6.64	5.29	0.8000
100-Yr 08-Hr	PRO. BASIN 1	4.67	4.0000	8.68	5.96	1.5000
100-Yr 08-Hr	PRO. BASIN 2	2.81	4.0000	8.68	7.29	0.8000
100-Yr 24-Hr	PRO. BASIN 1	1.83	12.0000	13.40	10.48	1.5000
100-Yr 24-Hr	PRO. BASIN 2	1.05	12.0000	13.40	11.99	0.8000
100-Yr 72-Hr	PRO. BASIN 1	1.29	59.9167	17.70	14.68	1.5000
100-Yr 72-Hr	PRO. BASIN 2	0.70	59.9167	17.70	16.27	0.8000
SLUG	PRO. BASIN 1	0.00	0.0000	0.00	0.00	1.5000
SLUG	PRO. BASIN 2	0.00	0.0000	0.00	0.00	0.8000
SWFWMD 100YR24HR	PRO. BASIN 1	9.45	12.0500	12.00	9.13	1.5000
SWFWMD 100YR24HR	PRO. BASIN 2	5.56	12.0500	12.00	10.61	0.8000
SWFWMD 25YR24HR	PRO. BASIN 1	6.61	12.0500	9.00	6.29	1.5000

Sim Name	Basin Name	Max Flow [cfs]	Time to Max Flow [hrs]	Total Rainfall [in]	Total Runoff [in]	Area [ac]
SWFWMD 25YR24HR	PRO. BASIN 2	4.08	12.0500	9.00	7.65	0.8000
SWFWMD 50YR24HR	PRO. BASIN 1	7.56	12.0500	10.00	7.23	1.5000
SWFWMD 50YR24HR	PRO. BASIN 2	4.58	12.0500	10.00	8.63	0.8000

Node Max Conditions : Multi Item | (sim, name) [EXISTING]

Sim Name	Node Name	Warning Stage [ft]	Alert Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
003-Yr 01-Hr	PRE OFFSITE GTB	65.73	0.00	65.73	0.0000	0.09	0.00	0
003-Yr 01-Hr	PRE OFFSITE MARS	66.28	0.00	66.28	0.0000	0.47	0.00	0
003-Yr 01-Hr	PRE OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.27	0.00	0
003-Yr 02-Hr	PRE OFFSITE GTB	65.73	0.00	65.73	0.0000	0.09	0.00	0
003-Yr 02-Hr	PRE OFFSITE MARS	66.28	0.00	66.28	0.0000	0.44	0.00	0
003-Yr 02-Hr	PRE OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.25	0.00	0
003-Yr 04-Hr	PRE OFFSITE GTB	65.73	0.00	65.73	0.0000	0.13	0.00	0
003-Yr 04-Hr	PRE OFFSITE MARS	66.28	0.00	66.28	0.0000	0.52	0.00	0
003-Yr 04-Hr	PRE OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.30	0.00	0
003-Yr 08-Hr	PRE OFFSITE GTB	65.73	0.00	65.73	0.0000	0.13	0.00	0
003-Yr 08-Hr	PRE OFFSITE MARS	66.28	0.00	66.28	0.0000	0.60	0.00	0
003-Yr 08-Hr	PRE OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.34	0.00	0
003-Yr 24-Hr	PRE OFFSITE GTB	65.73	0.00	65.73	0.0000	0.06	0.00	0
003-Yr 24-Hr	PRE OFFSITE MARS	66.28	0.00	66.28	0.0000	0.22	0.00	0
003-Yr 24-Hr	PRE OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.12	0.00	0
003-Yr	PRE	65.73	0.00	65.73	0.0000	0.08	0.00	0

Sim Name	Node Name	Warning Stage [ft]	Alert Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
72-Hr	OFFSITE GTB							
003-Yr 72-Hr	PRE OFFSITE MARS	66.28	0.00	66.28	0.0000	0.27	0.00	0
003-Yr 72-Hr	PRE OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.16	0.00	0
005-Yr 01-Hr	PRE OFFSITE GTB	65.73	0.00	65.73	0.0000	0.12	0.00	0
005-Yr 01-Hr	PRE OFFSITE MARS	66.28	0.00	66.28	0.0000	0.64	0.00	0
005-Yr 01-Hr	PRE OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.37	0.00	0
005-Yr 02-Hr	PRE OFFSITE GTB	65.73	0.00	65.73	0.0000	0.13	0.00	0
005-Yr 02-Hr	PRE OFFSITE MARS	66.28	0.00	66.28	0.0000	0.60	0.00	0
005-Yr 02-Hr	PRE OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.35	0.00	0
005-Yr 04-Hr	PRE OFFSITE GTB	65.73	0.00	65.73	0.0000	0.17	0.00	0
005-Yr 04-Hr	PRE OFFSITE MARS	66.28	0.00	66.28	0.0000	0.69	0.00	0
005-Yr 04-Hr	PRE OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.39	0.00	0
005-Yr 08-Hr	PRE OFFSITE GTB	65.73	0.00	65.73	0.0000	0.18	0.00	0
005-Yr 08-Hr	PRE OFFSITE MARS	66.28	0.00	66.28	0.0000	0.81	0.00	0
005-Yr 08-Hr	PRE OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.46	0.00	0
005-Yr 24-Hr	PRE OFFSITE GTB	65.73	0.00	65.73	0.0000	0.08	0.00	0

Sim Name	Node Name	Warning Stage [ft]	Alert Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
005-Yr 24-Hr	PRE OFFSITE MARS	66.28	0.00	66.28	0.0000	0.30	0.00	0
005-Yr 24-Hr	PRE OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.17	0.00	0
005-Yr 72-Hr	PRE OFFSITE GTB	65.73	0.00	65.73	0.0000	0.10	0.00	0
005-Yr 72-Hr	PRE OFFSITE MARS	66.28	0.00	66.28	0.0000	0.35	0.00	0
005-Yr 72-Hr	PRE OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.20	0.00	0
010-Yr 01-Hr	PRE OFFSITE GTB	65.73	0.00	65.73	0.0000	0.17	0.00	0
010-Yr 01-Hr	PRE OFFSITE MARS	66.28	0.00	66.28	0.0000	0.90	0.00	0
010-Yr 01-Hr	PRE OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.52	0.00	0
010-Yr 02-Hr	PRE OFFSITE GTB	65.73	0.00	65.73	0.0000	0.18	0.00	0
010-Yr 02-Hr	PRE OFFSITE MARS	66.28	0.00	66.28	0.0000	0.87	0.00	0
010-Yr 02-Hr	PRE OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.50	0.00	0
010-Yr 04-Hr	PRE OFFSITE GTB	65.73	0.00	65.73	0.0000	0.22	0.00	0
010-Yr 04-Hr	PRE OFFSITE MARS	66.28	0.00	66.28	0.0000	0.93	0.00	0
010-Yr 04-Hr	PRE OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.53	0.00	0
010-Yr 08-Hr	PRE OFFSITE GTB	65.73	0.00	65.73	0.0000	0.26	0.00	0
010-Yr 08-Hr	PRE OFFSITE	66.28	0.00	66.28	0.0000	1.14	0.00	0

Sim Name	Node Name	Warning Stage [ft]	Alert Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
	MARS							
010-Yr 08-Hr	PRE OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.65	0.00	0
010-Yr 24-Hr	PRE OFFSITE GTB	65.73	0.00	65.73	0.0000	0.12	0.00	0
010-Yr 24-Hr	PRE OFFSITE MARS	66.28	0.00	66.28	0.0000	0.44	0.00	0
010-Yr 24-Hr	PRE OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.25	0.00	0
010-Yr 72-Hr	PRE OFFSITE GTB	65.73	0.00	65.73	0.0000	0.13	0.00	0
010-Yr 72-Hr	PRE OFFSITE MARS	66.28	0.00	66.28	0.0000	0.45	0.00	0
010-Yr 72-Hr	PRE OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.26	0.00	0
025-Yr 01-Hr	PRE OFFSITE GTB	65.73	0.00	65.73	0.0000	0.26	0.00	0
025-Yr 01-Hr	PRE OFFSITE MARS	66.28	0.00	66.28	0.0000	1.33	0.00	0
025-Yr 01-Hr	PRE OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.76	0.00	0
025-Yr 02-Hr	PRE OFFSITE GTB	65.73	0.00	65.73	0.0000	0.26	0.00	0
025-Yr 02-Hr	PRE OFFSITE MARS	66.28	0.00	66.28	0.0000	1.30	0.00	0
025-Yr 02-Hr	PRE OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.75	0.00	0
025-Yr 04-Hr	PRE OFFSITE GTB	65.73	0.00	65.73	0.0000	0.32	0.00	0
025-Yr 04-Hr	PRE OFFSITE MARS	66.28	0.00	66.28	0.0000	1.33	0.00	0
025-Yr	PRE	67.40	0.00	67.40	0.0000	0.76	0.00	0

Sim Name	Node Name	Warning Stage [ft]	Alert Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
04-Hr	OFFSITE SATURN							
025-Yr 08-Hr	PRE OFFSITE GTB	65.73	0.00	65.73	0.0000	0.40	0.00	0
025-Yr 08-Hr	PRE OFFSITE MARS	66.28	0.00	66.28	0.0000	1.71	0.00	0
025-Yr 08-Hr	PRE OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.98	0.00	0
025-Yr 24-Hr	PRE OFFSITE GTB	65.73	0.00	65.73	0.0000	0.19	0.00	0
025-Yr 24-Hr	PRE OFFSITE MARS	66.28	0.00	66.28	0.0000	0.70	0.00	0
025-Yr 24-Hr	PRE OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.40	0.00	0
025-Yr 72-Hr	PRE OFFSITE GTB	65.73	0.00	65.73	0.0000	0.19	0.00	0
025-Yr 72-Hr	PRE OFFSITE MARS	66.28	0.00	66.28	0.0000	0.64	0.00	0
025-Yr 72-Hr	PRE OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.36	0.00	0
050-Yr 01-Hr	PRE OFFSITE GTB	65.73	0.00	65.73	0.0000	0.34	0.00	0
050-Yr 01-Hr	PRE OFFSITE MARS	66.28	0.00	66.28	0.0000	1.73	0.00	0
050-Yr 01-Hr	PRE OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.99	0.00	0
050-Yr 02-Hr	PRE OFFSITE GTB	65.73	0.00	65.73	0.0000	0.34	0.00	0
050-Yr 02-Hr	PRE OFFSITE MARS	66.28	0.00	66.28	0.0000	1.70	0.00	0
050-Yr 02-Hr	PRE OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.97	0.00	0

Sim Name	Node Name	Warning Stage [ft]	Alert Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
050-Yr 04-Hr	PRE OFFSITE GTB	65.73	0.00	65.73	0.0000	0.41	0.00	0
050-Yr 04-Hr	PRE OFFSITE MARS	66.28	0.00	66.28	0.0000	1.68	0.00	0
050-Yr 04-Hr	PRE OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.96	0.00	0
050-Yr 08-Hr	PRE OFFSITE GTB	65.73	0.00	65.73	0.0000	0.52	0.00	0
050-Yr 08-Hr	PRE OFFSITE MARS	66.28	0.00	66.28	0.0000	2.24	0.00	0
050-Yr 08-Hr	PRE OFFSITE SATURN	67.40	0.00	67.40	0.0000	1.28	0.00	0
050-Yr 24-Hr	PRE OFFSITE GTB	65.73	0.00	65.73	0.0000	0.26	0.00	0
050-Yr 24-Hr	PRE OFFSITE MARS	66.28	0.00	66.28	0.0000	0.94	0.00	0
050-Yr 24-Hr	PRE OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.53	0.00	0
050-Yr 72-Hr	PRE OFFSITE GTB	65.73	0.00	65.73	0.0000	0.23	0.00	0
050-Yr 72-Hr	PRE OFFSITE MARS	66.28	0.00	66.28	0.0000	0.80	0.00	0
050-Yr 72-Hr	PRE OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.46	0.00	0
100-Yr 01-Hr	PRE OFFSITE GTB	65.73	0.00	65.73	0.0000	0.42	0.00	0
100-Yr 01-Hr	PRE OFFSITE MARS	66.28	0.00	66.28	0.0000	2.17	0.00	0
100-Yr 01-Hr	PRE OFFSITE SATURN	67.40	0.00	67.40	0.0000	1.24	0.00	0
100-Yr 02-Hr	PRE OFFSITE	65.73	0.00	65.73	0.0000	0.43	0.00	0

Sim Name	Node Name	Warning Stage [ft]	Alert Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
	GTB							
100-Yr 02-Hr	PRE OFFSITE MARS	66.28	0.00	66.28	0.0000	2.14	0.00	0
100-Yr 02-Hr	PRE OFFSITE SATURN	67.40	0.00	67.40	0.0000	1.23	0.00	0
100-Yr 04-Hr	PRE OFFSITE GTB	65.73	0.00	65.73	0.0000	0.51	0.00	0
100-Yr 04-Hr	PRE OFFSITE MARS	66.28	0.00	66.28	0.0000	2.06	0.00	0
100-Yr 04-Hr	PRE OFFSITE SATURN	67.40	0.00	67.40	0.0000	1.17	0.00	0
100-Yr 08-Hr	PRE OFFSITE GTB	65.73	0.00	65.73	0.0000	0.67	0.00	0
100-Yr 08-Hr	PRE OFFSITE MARS	66.28	0.00	66.28	0.0000	2.84	0.00	0
100-Yr 08-Hr	PRE OFFSITE SATURN	67.40	0.00	67.40	0.0000	1.62	0.00	0
100-Yr 24-Hr	PRE OFFSITE GTB	65.73	0.00	65.73	0.0000	0.34	0.00	0
100-Yr 24-Hr	PRE OFFSITE MARS	66.28	0.00	66.28	0.0000	1.22	0.00	0
100-Yr 24-Hr	PRE OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.70	0.00	0
100-Yr 72-Hr	PRE OFFSITE GTB	65.73	0.00	65.73	0.0000	0.29	0.00	0
100-Yr 72-Hr	PRE OFFSITE MARS	66.28	0.00	66.28	0.0000	0.98	0.00	0
100-Yr 72-Hr	PRE OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.56	0.00	0
SWFWMD 25YR24HR	PRE OFFSITE GTB	65.73	0.00	65.73	0.0000	0.77	0.00	0
SWFWMD	PRE	66.28	0.00	66.28	0.0000	3.78	0.00	0

Sim Name	Node Name	Warning Stage [ft]	Alert Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
25YR24HR	OFFSITE MARS							
SWFWMD 25YR24HR	PRE OFFSITE SATURN	67.40	0.00	67.40	0.0000	2.17	0.00	0
SWFWMD 50YR24HR	PRE OFFSITE GTB	65.73	0.00	65.73	0.0000	0.92	0.00	0
SWFWMD 50YR24HR	PRE OFFSITE MARS	66.28	0.00	66.28	0.0000	4.51	0.00	0
SWFWMD 50YR24HR	PRE OFFSITE SATURN	67.40	0.00	67.40	0.0000	2.58	0.00	0

Node Max Conditions : Multi Item | (sim, name) [PROPOSED]

Sim Name	Node Name	Warning Stage [ft]	Alert Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
003-Yr 01-Hr	DIVERSION BOX 1	69.00	0.00	64.61	0.0000	0.00	0.00	100
003-Yr 01-Hr	DIVERSION BOX 2	69.00	0.00	66.28	-0.0183	0.00	18.37	100
003-Yr 01-Hr	DIVERSION BOX 3	69.00	0.00	67.40	-0.0200	0.00	19.98	100
003-Yr 01-Hr	GROUNDWATER	62.05	0.00	62.05	0.0000	2.56	0.00	0
003-Yr 01-Hr	POST OFFSITE GTB PIPE	65.73	0.00	65.73	0.0000	0.00	0.00	0
003-Yr 01-Hr	POST OFFSITE MARS	66.28	0.00	66.28	0.0000	0.00	0.00	0
003-Yr 01-Hr	POST OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.00	0.00	0
003-Yr 01-Hr	RAIN TANK	67.50	0.00	64.62	0.0010	38.35	2.56	20881
003-Yr 02-Hr	DIVERSION BOX 1	69.00	0.00	64.71	0.0010	0.01	0.00	100
003-Yr 02-Hr	DIVERSION BOX 2	69.00	0.00	66.28	-0.0183	0.01	18.37	100
003-Yr 02-Hr	DIVERSION BOX 3	69.00	0.00	67.40	-0.0200	0.01	19.98	100

Sim Name	Node Name	Warning Stage [ft]	Alert Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
003-Yr 02-Hr	GROUNDW ATER	62.05	0.00	62.05	0.0000	2.56	0.00	0
003-Yr 02-Hr	POST OFFSITE GTB PIPE	65.73	0.00	65.73	0.0000	0.00	0.00	0
003-Yr 02-Hr	POST OFFSITE MARS	66.28	0.00	66.28	0.0000	0.00	0.00	0
003-Yr 02-Hr	POST OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.00	0.00	0
003-Yr 02-Hr	RAIN TANK	67.50	0.00	64.71	0.0010	38.35	2.56	20881
003-Yr 04-Hr	DIVERSION BOX 1	69.00	0.00	64.80	0.0010	0.01	0.00	100
003-Yr 04-Hr	DIVERSION BOX 2	69.00	0.00	66.28	-0.0183	0.02	18.37	100
003-Yr 04-Hr	DIVERSION BOX 3	69.00	0.00	67.40	-0.0200	0.02	19.98	100
003-Yr 04-Hr	GROUNDW ATER	62.05	0.00	62.05	0.0000	2.56	0.00	0
003-Yr 04-Hr	POST OFFSITE GTB PIPE	65.73	0.00	65.73	0.0000	0.00	0.00	0
003-Yr 04-Hr	POST OFFSITE MARS	66.28	0.00	66.28	0.0000	0.00	0.00	0
003-Yr 04-Hr	POST OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.00	0.00	0
003-Yr 04-Hr	RAIN TANK	67.50	0.00	64.80	-0.0010	38.35	2.56	20881
003-Yr 08-Hr	DIVERSION BOX 1	69.00	0.00	64.84	0.0010	0.01	0.00	100
003-Yr 08-Hr	DIVERSION BOX 2	69.00	0.00	66.28	-0.0183	0.01	18.37	100
003-Yr 08-Hr	DIVERSION BOX 3	69.00	0.00	67.40	-0.0200	0.01	19.98	100
003-Yr 08-Hr	GROUNDW ATER	62.05	0.00	62.05	0.0000	2.56	0.00	0
003-Yr 08-Hr	POST OFFSITE GTB PIPE	65.73	0.00	65.73	0.0000	0.00	0.00	0
003-Yr 08-Hr	POST OFFSITE MARS	66.28	0.00	66.28	0.0000	0.00	0.00	0
003-Yr	POST	67.40	0.00	67.40	0.0000	0.00	0.00	0

Sim Name	Node Name	Warning Stage [ft]	Alert Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
08-Hr	OFFSITE SATURN							
003-Yr 08-Hr	RAIN TANK	67.50	0.00	64.84	-0.0010	38.35	2.56	20881
003-Yr 24-Hr	DIVERSION BOX 1	69.00	0.00	64.90	0.0010	0.00	0.00	100
003-Yr 24-Hr	DIVERSION BOX 2	69.00	0.00	66.28	-0.0183	0.00	18.37	100
003-Yr 24-Hr	DIVERSION BOX 3	69.00	0.00	67.40	-0.0200	0.00	19.98	100
003-Yr 24-Hr	GROUNDWATER	62.05	0.00	62.05	0.0000	2.56	0.00	0
003-Yr 24-Hr	POST OFFSITE GTB PIPE	65.73	0.00	65.73	0.0000	0.00	0.00	0
003-Yr 24-Hr	POST OFFSITE MARS	66.28	0.00	66.28	0.0000	0.00	0.00	0
003-Yr 24-Hr	POST OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.00	0.00	0
003-Yr 24-Hr	RAIN TANK	67.50	0.00	64.90	-0.0010	38.35	2.56	20881
003-Yr 72-Hr	DIVERSION BOX 1	69.00	0.00	65.01	0.0010	0.01	0.00	100
003-Yr 72-Hr	DIVERSION BOX 2	69.00	0.00	66.28	-0.0183	0.01	18.37	100
003-Yr 72-Hr	DIVERSION BOX 3	69.00	0.00	67.40	-0.0200	0.01	19.98	100
003-Yr 72-Hr	GROUNDWATER	62.05	0.00	62.05	0.0000	2.56	0.00	0
003-Yr 72-Hr	POST OFFSITE GTB PIPE	65.73	0.00	65.73	0.0000	0.00	0.00	0
003-Yr 72-Hr	POST OFFSITE MARS	66.28	0.00	66.28	0.0000	0.00	0.00	0
003-Yr 72-Hr	POST OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.00	0.00	0
003-Yr 72-Hr	RAIN TANK	67.50	0.00	65.01	-0.0010	38.35	2.56	20881
005-Yr 01-Hr	DIVERSION BOX 1	69.00	0.00	64.62	0.0002	0.00	0.00	100
005-Yr 01-Hr	DIVERSION BOX 2	69.00	0.00	66.28	-0.0183	0.00	18.37	100
005-Yr	DIVERSION	69.00	0.00	67.40	-0.0200	0.00	19.98	100

Sim Name	Node Name	Warning Stage [ft]	Alert Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
01-Hr	BOX 3							
005-Yr 01-Hr	GROUNDW ATER	62.05	0.00	62.05	0.0000	2.56	0.00	0
005-Yr 01-Hr	POST OFFSITE GTB PIPE	65.73	0.00	65.73	0.0000	0.00	0.00	0
005-Yr 01-Hr	POST OFFSITE MARS	66.28	0.00	66.28	0.0000	0.00	0.00	0
005-Yr 01-Hr	POST OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.00	0.00	0
005-Yr 01-Hr	RAIN TANK	67.50	0.00	64.65	0.0010	38.35	2.56	20881
005-Yr 02-Hr	DIVERSION BOX 1	69.00	0.00	64.80	0.0010	0.01	0.00	100
005-Yr 02-Hr	DIVERSION BOX 2	69.00	0.00	66.28	-0.0183	0.02	18.37	100
005-Yr 02-Hr	DIVERSION BOX 3	69.00	0.00	67.40	-0.0200	0.02	19.98	100
005-Yr 02-Hr	GROUNDW ATER	62.05	0.00	62.05	0.0000	2.56	0.00	0
005-Yr 02-Hr	POST OFFSITE GTB PIPE	65.73	0.00	65.73	0.0000	0.00	0.00	0
005-Yr 02-Hr	POST OFFSITE MARS	66.28	0.00	66.28	0.0000	0.00	0.00	0
005-Yr 02-Hr	POST OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.00	0.00	0
005-Yr 02-Hr	RAIN TANK	67.50	0.00	64.80	0.0010	38.35	2.56	20881
005-Yr 04-Hr	DIVERSION BOX 1	69.00	0.00	64.92	0.0010	0.02	0.00	100
005-Yr 04-Hr	DIVERSION BOX 2	69.00	0.00	66.28	-0.0183	0.03	18.37	100
005-Yr 04-Hr	DIVERSION BOX 3	69.00	0.00	67.40	-0.0200	0.02	19.98	100
005-Yr 04-Hr	GROUNDW ATER	62.05	0.00	62.05	0.0000	2.56	0.00	0
005-Yr 04-Hr	POST OFFSITE GTB PIPE	65.73	0.00	65.73	0.0000	0.00	0.00	0
005-Yr 04-Hr	POST OFFSITE MARS	66.28	0.00	66.28	0.0000	0.00	0.00	0

Sim Name	Node Name	Warning Stage [ft]	Alert Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
005-Yr 04-Hr	POST OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.00	0.00	0
005-Yr 04-Hr	RAIN TANK	67.50	0.00	64.93	-0.0010	38.35	2.56	20881
005-Yr 08-Hr	DIVERSION BOX 1	69.00	0.00	65.00	0.0010	0.01	0.00	100
005-Yr 08-Hr	DIVERSION BOX 2	69.00	0.00	66.28	-0.0183	0.03	18.37	100
005-Yr 08-Hr	DIVERSION BOX 3	69.00	0.00	67.40	-0.0200	0.02	19.98	100
005-Yr 08-Hr	GROUNDW ATER	62.05	0.00	62.05	0.0000	2.56	0.00	0
005-Yr 08-Hr	POST OFFSITE GTB PIPE	65.73	0.00	65.73	0.0000	0.00	0.00	0
005-Yr 08-Hr	POST OFFSITE MARS	66.28	0.00	66.28	0.0000	0.00	0.00	0
005-Yr 08-Hr	POST OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.00	0.00	0
005-Yr 08-Hr	RAIN TANK	67.50	0.00	65.01	-0.0010	38.35	2.56	20881
005-Yr 24-Hr	DIVERSION BOX 1	69.00	0.00	65.13	0.0010	0.01	0.00	100
005-Yr 24-Hr	DIVERSION BOX 2	69.00	0.00	66.28	-0.0183	0.01	18.37	100
005-Yr 24-Hr	DIVERSION BOX 3	69.00	0.00	67.40	-0.0200	0.01	19.98	100
005-Yr 24-Hr	GROUNDW ATER	62.05	0.00	62.05	0.0000	2.56	0.00	0
005-Yr 24-Hr	POST OFFSITE GTB PIPE	65.73	0.00	65.73	0.0000	0.00	0.00	0
005-Yr 24-Hr	POST OFFSITE MARS	66.28	0.00	66.28	0.0000	0.00	0.00	0
005-Yr 24-Hr	POST OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.00	0.00	0
005-Yr 24-Hr	RAIN TANK	67.50	0.00	65.13	0.0010	38.35	2.56	20881
005-Yr 72-Hr	DIVERSION BOX 1	69.00	0.00	65.31	0.0010	0.01	0.00	100
005-Yr 72-Hr	DIVERSION BOX 2	69.00	0.00	66.28	-0.0183	0.01	18.37	100

Sim Name	Node Name	Warning Stage [ft]	Alert Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
005-Yr 72-Hr	DIVERSION BOX 3	69.00	0.00	67.40	-0.0200	0.01	19.98	100
005-Yr 72-Hr	GROUNDW ATER	62.05	0.00	62.05	0.0000	2.56	0.00	0
005-Yr 72-Hr	POST OFFSITE GTB PIPE	65.73	0.00	65.73	0.0000	0.00	0.00	0
005-Yr 72-Hr	POST OFFSITE MARS	66.28	0.00	66.28	0.0000	0.00	0.00	0
005-Yr 72-Hr	POST OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.00	0.00	0
005-Yr 72-Hr	RAIN TANK	67.50	0.00	65.31	-0.0010	38.35	2.56	20881
010-Yr 01-Hr	DIVERSION BOX 1	69.00	0.00	64.74	0.0010	0.01	0.00	100
010-Yr 01-Hr	DIVERSION BOX 2	69.00	0.00	66.28	-0.0183	0.02	18.37	100
010-Yr 01-Hr	DIVERSION BOX 3	69.00	0.00	67.40	-0.0200	0.02	19.98	100
010-Yr 01-Hr	GROUNDW ATER	62.05	0.00	62.05	0.0000	2.56	0.00	0
010-Yr 01-Hr	POST OFFSITE GTB PIPE	65.73	0.00	65.73	0.0000	0.00	0.00	0
010-Yr 01-Hr	POST OFFSITE MARS	66.28	0.00	66.28	0.0000	0.00	0.00	0
010-Yr 01-Hr	POST OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.00	0.00	0
010-Yr 01-Hr	RAIN TANK	67.50	0.00	64.74	0.0010	38.35	2.56	20881
010-Yr 02-Hr	DIVERSION BOX 1	69.00	0.00	64.93	0.0010	0.02	0.00	100
010-Yr 02-Hr	DIVERSION BOX 2	69.00	0.00	66.28	-0.0183	0.03	18.37	100
010-Yr 02-Hr	DIVERSION BOX 3	69.00	0.00	67.40	-0.0200	0.03	19.98	100
010-Yr 02-Hr	GROUNDW ATER	62.05	0.00	62.05	0.0000	2.56	0.00	0
010-Yr 02-Hr	POST OFFSITE GTB PIPE	65.73	0.00	65.73	0.0000	0.00	0.00	0
010-Yr 02-Hr	POST OFFSITE	66.28	0.00	66.28	0.0000	0.00	0.00	0

Sim Name	Node Name	Warning Stage [ft]	Alert Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
	MARS							
010-Yr 02-Hr	POST OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.00	0.00	0
010-Yr 02-Hr	RAIN TANK	67.50	0.00	64.93	-0.0010	38.35	2.56	20881
010-Yr 04-Hr	DIVERSION BOX 1	69.00	0.00	65.10	0.0010	0.02	0.00	100
010-Yr 04-Hr	DIVERSION BOX 2	69.00	0.00	66.28	-0.0183	0.04	18.37	100
010-Yr 04-Hr	DIVERSION BOX 3	69.00	0.00	67.40	-0.0200	0.03	19.98	100
010-Yr 04-Hr	GROUNDW ATER	62.05	0.00	62.05	0.0000	2.56	0.00	0
010-Yr 04-Hr	POST OFFSITE GTB PIPE	65.73	0.00	65.73	0.0000	0.00	0.00	0
010-Yr 04-Hr	POST OFFSITE MARS	66.28	0.00	66.28	0.0000	0.00	0.00	0
010-Yr 04-Hr	POST OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.00	0.00	0
010-Yr 04-Hr	RAIN TANK	67.50	0.00	65.10	-0.0010	38.35	2.56	20881
010-Yr 08-Hr	DIVERSION BOX 1	69.00	0.00	65.24	0.0010	0.03	0.00	100
010-Yr 08-Hr	DIVERSION BOX 2	69.00	0.00	66.28	-0.0183	0.05	18.37	100
010-Yr 08-Hr	DIVERSION BOX 3	69.00	0.00	67.40	-0.0200	0.04	19.98	100
010-Yr 08-Hr	GROUNDW ATER	62.05	0.00	62.05	0.0000	2.56	0.00	0
010-Yr 08-Hr	POST OFFSITE GTB PIPE	65.73	0.00	65.73	0.0000	0.00	0.00	0
010-Yr 08-Hr	POST OFFSITE MARS	66.28	0.00	66.28	0.0000	0.00	0.00	0
010-Yr 08-Hr	POST OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.00	0.00	0
010-Yr 08-Hr	RAIN TANK	67.50	0.00	65.24	0.0010	38.35	2.56	20881
010-Yr 24-Hr	DIVERSION BOX 1	69.00	0.00	65.51	0.0010	0.01	0.00	100
010-Yr	DIVERSION	69.00	0.00	66.28	-0.0183	0.01	18.37	100

Sim Name	Node Name	Warning Stage [ft]	Alert Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
24-Hr	BOX 2							
010-Yr 24-Hr	DIVERSION BOX 3	69.00	0.00	67.40	-0.0200	0.01	19.98	100
010-Yr 24-Hr	GROUNDW ATER	62.05	0.00	62.05	0.0000	2.56	0.00	0
010-Yr 24-Hr	POST OFFSITE GTB PIPE	65.73	0.00	65.73	0.0000	0.00	0.00	0
010-Yr 24-Hr	POST OFFSITE MARS	66.28	0.00	66.28	0.0000	0.00	0.00	0
010-Yr 24-Hr	POST OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.00	0.00	0
010-Yr 24-Hr	RAIN TANK	67.50	0.00	65.51	-0.0010	38.35	2.56	20881
010-Yr 72-Hr	DIVERSION BOX 1	69.00	0.00	65.76	0.0010	0.01	0.01	100
010-Yr 72-Hr	DIVERSION BOX 2	69.00	0.00	66.28	-0.0183	0.03	18.37	100
010-Yr 72-Hr	DIVERSION BOX 3	69.00	0.00	67.40	-0.0200	0.00	19.98	100
010-Yr 72-Hr	GROUNDW ATER	62.05	0.00	62.05	0.0000	2.56	0.00	0
010-Yr 72-Hr	POST OFFSITE GTB PIPE	65.73	0.00	65.73	0.0000	0.01	0.00	0
010-Yr 72-Hr	POST OFFSITE MARS	66.28	0.00	66.28	0.0000	0.00	0.00	0
010-Yr 72-Hr	POST OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.00	0.00	0
010-Yr 72-Hr	RAIN TANK	67.50	0.00	65.78	-0.0010	38.35	2.56	20881
025-Yr 01-Hr	DIVERSION BOX 1	69.00	0.00	64.88	0.0010	0.02	0.00	100
025-Yr 01-Hr	DIVERSION BOX 2	69.00	0.00	66.28	-0.0183	0.05	18.37	100
025-Yr 01-Hr	DIVERSION BOX 3	69.00	0.00	67.40	-0.0200	0.04	19.98	100
025-Yr 01-Hr	GROUNDW ATER	62.05	0.00	62.05	0.0000	2.56	0.00	0
025-Yr 01-Hr	POST OFFSITE GTB PIPE	65.73	0.00	65.73	0.0000	0.00	0.00	0
025-Yr	POST	66.28	0.00	66.28	0.0000	0.00	0.00	0

Sim Name	Node Name	Warning Stage [ft]	Alert Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
01-Hr	OFFSITE MARS							
025-Yr 01-Hr	POST OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.00	0.00	0
025-Yr 01-Hr	RAIN TANK	67.50	0.00	64.88	0.0010	38.35	2.58	20881
025-Yr 02-Hr	DIVERSION BOX 1	69.00	0.00	65.12	0.0010	0.03	0.00	100
025-Yr 02-Hr	DIVERSION BOX 2	69.00	0.00	66.28	-0.0183	0.06	18.37	100
025-Yr 02-Hr	DIVERSION BOX 3	69.00	0.00	67.40	-0.0200	0.05	19.98	100
025-Yr 02-Hr	GROUNDWATER	62.05	0.00	62.05	0.0000	2.56	0.00	0
025-Yr 02-Hr	POST OFFSITE GTB PIPE	65.73	0.00	65.73	0.0000	0.00	0.00	0
025-Yr 02-Hr	POST OFFSITE MARS	66.28	0.00	66.28	0.0000	0.00	0.00	0
025-Yr 02-Hr	POST OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.00	0.00	0
025-Yr 02-Hr	RAIN TANK	67.50	0.00	65.12	0.0010	38.35	2.56	20881
025-Yr 04-Hr	DIVERSION BOX 1	69.00	0.00	65.37	0.0010	0.03	0.00	100
025-Yr 04-Hr	DIVERSION BOX 2	69.00	0.00	66.28	-0.0183	0.05	18.37	100
025-Yr 04-Hr	DIVERSION BOX 3	69.00	0.00	67.40	-0.0200	0.04	19.98	100
025-Yr 04-Hr	GROUNDWATER	62.05	0.00	62.05	0.0000	2.56	0.00	0
025-Yr 04-Hr	POST OFFSITE GTB PIPE	65.73	0.00	65.73	0.0000	0.00	0.00	0
025-Yr 04-Hr	POST OFFSITE MARS	66.28	0.00	66.28	0.0000	0.00	0.00	0
025-Yr 04-Hr	POST OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.00	0.00	0
025-Yr 04-Hr	RAIN TANK	67.50	0.00	65.38	-0.0010	38.35	2.56	20881
025-Yr 08-Hr	DIVERSION BOX 1	69.00	0.00	65.63	0.0010	0.03	0.00	100

Sim Name	Node Name	Warning Stage [ft]	Alert Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
025-Yr 08-Hr	DIVERSION BOX 2	69.00	0.00	66.28	-0.0183	0.06	18.37	100
025-Yr 08-Hr	DIVERSION BOX 3	69.00	0.00	67.40	-0.0200	0.05	19.98	100
025-Yr 08-Hr	GROUNDW ATER	62.05	0.00	62.05	0.0000	2.56	0.00	0
025-Yr 08-Hr	POST OFFSITE GTB PIPE	65.73	0.00	65.73	0.0000	0.00	0.00	0
025-Yr 08-Hr	POST OFFSITE MARS	66.28	0.00	66.28	0.0000	0.00	0.00	0
025-Yr 08-Hr	POST OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.00	0.00	0
025-Yr 08-Hr	RAIN TANK	67.50	0.00	65.63	0.0010	38.35	2.56	20881
025-Yr 24-Hr	DIVERSION BOX 1	69.00	0.00	65.83	0.0010	0.05	0.05	100
025-Yr 24-Hr	DIVERSION BOX 2	69.00	0.00	66.28	-0.0183	0.04	18.37	100
025-Yr 24-Hr	DIVERSION BOX 3	69.00	0.00	67.40	-0.0200	0.01	19.98	100
025-Yr 24-Hr	GROUNDW ATER	62.05	0.00	62.05	0.0000	2.56	0.00	0
025-Yr 24-Hr	POST OFFSITE GTB PIPE	65.73	0.00	65.73	0.0000	0.05	0.00	0
025-Yr 24-Hr	POST OFFSITE MARS	66.28	0.00	66.28	0.0000	0.00	0.00	0
025-Yr 24-Hr	POST OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.00	0.00	0
025-Yr 24-Hr	RAIN TANK	67.50	0.00	66.10	-0.0010	38.35	2.56	20881
025-Yr 72-Hr	DIVERSION BOX 1	69.00	0.00	65.86	0.0010	0.07	0.07	100
025-Yr 72-Hr	DIVERSION BOX 2	69.00	0.00	66.43	-0.0183	0.46	18.37	100
025-Yr 72-Hr	DIVERSION BOX 3	69.00	0.00	67.40	-0.0200	0.01	19.98	100
025-Yr 72-Hr	GROUNDW ATER	62.05	0.00	62.05	0.0000	2.56	0.00	0
025-Yr 72-Hr	POST OFFSITE GTB PIPE	65.73	0.00	65.73	0.0000	0.07	0.00	0

Sim Name	Node Name	Warning Stage [ft]	Alert Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
025-Yr 72-Hr	POST OFFSITE MARS	66.28	0.00	66.28	0.0000	0.19	0.00	0
025-Yr 72-Hr	POST OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.00	0.00	0
025-Yr 72-Hr	RAIN TANK	67.50	0.00	66.43	-0.0010	38.35	2.56	20881
050-Yr 01-Hr	DIVERSION BOX 1	69.00	0.00	65.00	0.0010	0.03	0.00	100
050-Yr 01-Hr	DIVERSION BOX 2	69.00	0.00	66.28	-0.0183	0.05	18.37	100
050-Yr 01-Hr	DIVERSION BOX 3	69.00	0.00	67.40	-0.0200	0.05	19.98	100
050-Yr 01-Hr	GROUNDW ATER	62.05	0.00	62.05	0.0000	2.56	0.00	0
050-Yr 01-Hr	POST OFFSITE GTB PIPE	65.73	0.00	65.73	0.0000	0.00	0.00	0
050-Yr 01-Hr	POST OFFSITE MARS	66.28	0.00	66.28	0.0000	0.00	0.00	0
050-Yr 01-Hr	POST OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.00	0.00	0
050-Yr 01-Hr	RAIN TANK	67.50	0.00	65.00	0.0010	38.35	2.65	20881
050-Yr 02-Hr	DIVERSION BOX 1	69.00	0.00	65.27	0.0010	0.03	0.00	100
050-Yr 02-Hr	DIVERSION BOX 2	69.00	0.00	66.28	-0.0183	0.07	18.37	100
050-Yr 02-Hr	DIVERSION BOX 3	69.00	0.00	67.40	-0.0200	0.06	19.98	100
050-Yr 02-Hr	GROUNDW ATER	62.05	0.00	62.05	0.0000	2.56	0.00	0
050-Yr 02-Hr	POST OFFSITE GTB PIPE	65.73	0.00	65.73	0.0000	0.00	0.00	0
050-Yr 02-Hr	POST OFFSITE MARS	66.28	0.00	66.28	0.0000	0.00	0.00	0
050-Yr 02-Hr	POST OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.00	0.00	0
050-Yr 02-Hr	RAIN TANK	67.50	0.00	65.27	0.0010	38.35	2.56	20881
050-Yr	DIVERSION	69.00	0.00	65.61	0.0010	0.03	0.00	100

Sim Name	Node Name	Warning Stage [ft]	Alert Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
04-Hr	BOX 1							
050-Yr 04-Hr	DIVERSION BOX 2	69.00	0.00	66.28	-0.0183	0.06	18.37	100
050-Yr 04-Hr	DIVERSION BOX 3	69.00	0.00	67.40	-0.0200	0.05	19.98	100
050-Yr 04-Hr	GROUNDW ATER	62.05	0.00	62.05	0.0000	2.56	0.00	0
050-Yr 04-Hr	POST OFFSITE GTB PIPE	65.73	0.00	65.73	0.0000	0.00	0.00	0
050-Yr 04-Hr	POST OFFSITE MARS	66.28	0.00	66.28	0.0000	0.00	0.00	0
050-Yr 04-Hr	POST OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.00	0.00	0
050-Yr 04-Hr	RAIN TANK	67.50	0.00	65.61	-0.0010	38.35	2.56	20881
050-Yr 08-Hr	DIVERSION BOX 1	69.00	0.00	65.81	0.0010	0.04	0.04	100
050-Yr 08-Hr	DIVERSION BOX 2	69.00	0.00	66.28	-0.0183	0.07	18.37	100
050-Yr 08-Hr	DIVERSION BOX 3	69.00	0.00	67.40	-0.0200	0.06	19.98	100
050-Yr 08-Hr	GROUNDW ATER	62.05	0.00	62.05	0.0000	2.56	0.00	0
050-Yr 08-Hr	POST OFFSITE GTB PIPE	65.73	0.00	65.73	0.0000	0.04	0.00	0
050-Yr 08-Hr	POST OFFSITE MARS	66.28	0.00	66.28	0.0000	0.00	0.00	0
050-Yr 08-Hr	POST OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.00	0.00	0
050-Yr 08-Hr	RAIN TANK	67.50	0.00	65.97	-0.0010	38.35	2.56	20881
050-Yr 24-Hr	DIVERSION BOX 1	69.00	0.00	65.86	0.0010	0.08	0.08	100
050-Yr 24-Hr	DIVERSION BOX 2	69.00	0.00	66.49	-0.0183	0.69	18.37	100
050-Yr 24-Hr	DIVERSION BOX 3	69.00	0.00	67.40	-0.0200	0.01	19.98	100
050-Yr 24-Hr	GROUNDW ATER	62.05	0.00	62.05	0.0000	2.56	0.00	0
050-Yr 24-Hr	POST OFFSITE	65.73	0.00	65.73	0.0000	0.08	0.00	0

Sim Name	Node Name	Warning Stage [ft]	Alert Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
	GTB PIPE							
050-Yr 24-Hr	POST OFFSITE MARS	66.28	0.00	66.28	0.0000	0.31	0.00	0
050-Yr 24-Hr	POST OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.00	0.00	0
050-Yr 24-Hr	RAIN TANK	67.50	0.00	66.49	-0.0010	38.35	2.56	20881
050-Yr 72-Hr	DIVERSION BOX 1	69.00	0.00	65.87	0.0010	0.09	0.09	100
050-Yr 72-Hr	DIVERSION BOX 2	69.00	0.00	66.62	-0.0183	1.35	18.37	100
050-Yr 72-Hr	DIVERSION BOX 3	69.00	0.00	67.40	-0.0200	0.01	19.98	100
050-Yr 72-Hr	GROUNDW ATER	62.05	0.00	62.05	0.0000	2.56	0.00	0
050-Yr 72-Hr	POST OFFSITE GTB PIPE	65.73	0.00	65.73	0.0000	0.09	0.00	0
050-Yr 72-Hr	POST OFFSITE MARS	66.28	0.00	66.28	0.0000	0.65	0.00	0
050-Yr 72-Hr	POST OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.00	0.00	0
050-Yr 72-Hr	RAIN TANK	67.50	0.00	66.62	-0.0010	38.35	2.56	20881
100-Yr 01-Hr	DIVERSION BOX 1	69.00	0.00	65.12	0.0010	0.04	0.00	100
100-Yr 01-Hr	DIVERSION BOX 2	69.00	0.00	66.28	-0.0183	0.07	18.37	100
100-Yr 01-Hr	DIVERSION BOX 3	69.00	0.00	67.40	-0.0200	0.06	19.98	100
100-Yr 01-Hr	GROUNDW ATER	62.05	0.00	62.05	0.0000	2.56	0.00	0
100-Yr 01-Hr	POST OFFSITE GTB PIPE	65.73	0.00	65.73	0.0000	0.00	0.00	0
100-Yr 01-Hr	POST OFFSITE MARS	66.28	0.00	66.28	0.0000	0.00	0.00	0
100-Yr 01-Hr	POST OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.00	0.00	0
100-Yr 01-Hr	RAIN TANK	67.50	0.00	65.12	0.0010	38.35	2.69	20881

Sim Name	Node Name	Warning Stage [ft]	Alert Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
100-Yr 02-Hr	DIVERSION BOX 1	69.00	0.00	65.44	0.0010	0.04	0.00	100
100-Yr 02-Hr	DIVERSION BOX 2	69.00	0.00	66.28	-0.0183	0.09	18.37	100
100-Yr 02-Hr	DIVERSION BOX 3	69.00	0.00	67.40	-0.0200	0.08	19.98	100
100-Yr 02-Hr	GROUNDW ATER	62.05	0.00	62.05	0.0000	2.56	0.00	0
100-Yr 02-Hr	POST OFFSITE GTB PIPE	65.73	0.00	65.73	0.0000	0.00	0.00	0
100-Yr 02-Hr	POST OFFSITE MARS	66.28	0.00	66.28	0.0000	0.00	0.00	0
100-Yr 02-Hr	POST OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.00	0.00	0
100-Yr 02-Hr	RAIN TANK	67.50	0.00	65.44	0.0010	38.35	2.57	20881
100-Yr 04-Hr	DIVERSION BOX 1	69.00	0.00	65.79	0.0010	0.04	0.02	100
100-Yr 04-Hr	DIVERSION BOX 2	69.00	0.00	66.28	-0.0183	0.06	18.37	100
100-Yr 04-Hr	DIVERSION BOX 3	69.00	0.00	67.40	-0.0200	0.06	19.98	100
100-Yr 04-Hr	GROUNDW ATER	62.05	0.00	62.05	0.0000	2.56	0.00	0
100-Yr 04-Hr	POST OFFSITE GTB PIPE	65.73	0.00	65.73	0.0000	0.02	0.00	0
100-Yr 04-Hr	POST OFFSITE MARS	66.28	0.00	66.28	0.0000	0.00	0.00	0
100-Yr 04-Hr	POST OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.00	0.00	0
100-Yr 04-Hr	RAIN TANK	67.50	0.00	65.86	-0.0010	38.35	2.56	20881
100-Yr 08-Hr	DIVERSION BOX 1	69.00	0.00	65.85	0.0010	0.07	0.07	100
100-Yr 08-Hr	DIVERSION BOX 2	69.00	0.00	66.33	-0.0183	0.15	18.37	100
100-Yr 08-Hr	DIVERSION BOX 3	69.00	0.00	67.40	-0.0200	0.06	19.98	100
100-Yr 08-Hr	GROUNDW ATER	62.05	0.00	62.05	0.0000	2.56	0.00	0
100-Yr	POST	65.73	0.00	65.73	0.0000	0.07	0.00	0

Sim Name	Node Name	Warning Stage [ft]	Alert Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
08-Hr	OFFSITE GTB PIPE							
100-Yr 08-Hr	POST OFFSITE MARS	66.28	0.00	66.28	0.0000	0.04	0.00	0
100-Yr 08-Hr	POST OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.00	0.00	0
100-Yr 08-Hr	RAIN TANK	67.50	0.00	66.33	-0.0010	38.35	2.56	20881
100-Yr 24-Hr	DIVERSION BOX 1	69.00	0.00	65.87	0.0010	0.09	0.09	100
100-Yr 24-Hr	DIVERSION BOX 2	69.00	0.00	66.65	-0.0183	1.38	18.37	100
100-Yr 24-Hr	DIVERSION BOX 3	69.00	0.00	67.40	-0.0200	0.01	19.98	100
100-Yr 24-Hr	GROUNDWATER	62.05	0.00	62.05	0.0000	2.56	0.00	0
100-Yr 24-Hr	POST OFFSITE GTB PIPE	65.73	0.00	65.73	0.0000	0.09	0.00	0
100-Yr 24-Hr	POST OFFSITE MARS	66.28	0.00	66.28	0.0000	0.72	0.00	0
100-Yr 24-Hr	POST OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.00	0.00	0
100-Yr 24-Hr	RAIN TANK	67.50	0.00	66.65	-0.0010	38.35	2.56	20881
100-Yr 72-Hr	DIVERSION BOX 1	69.00	0.00	65.88	0.0010	0.10	0.10	100
100-Yr 72-Hr	DIVERSION BOX 2	69.00	0.00	66.84	-0.0183	2.27	18.37	100
100-Yr 72-Hr	DIVERSION BOX 3	69.00	0.00	67.40	-0.0200	0.01	19.98	100
100-Yr 72-Hr	GROUNDWATER	62.05	0.00	62.05	0.0000	2.56	0.00	0
100-Yr 72-Hr	POST OFFSITE GTB PIPE	65.73	0.00	65.73	0.0000	0.10	0.00	0
100-Yr 72-Hr	POST OFFSITE MARS	66.28	0.00	66.28	0.0000	1.33	0.00	0
100-Yr 72-Hr	POST OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.00	0.00	0
100-Yr	RAIN TANK	67.50	0.00	66.84	-0.0010	38.35	2.62	20881

Sim Name	Node Name	Warning Stage [ft]	Alert Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
72-Hr								
SLUG	DIVERSION BOX 1	69.00	0.00	64.61	0.0000	0.00	0.00	100
SLUG	DIVERSION BOX 2	69.00	0.00	66.28	-0.0183	0.00	18.37	100
SLUG	DIVERSION BOX 3	69.00	0.00	67.40	-0.0200	0.00	19.98	100
SLUG	GROUNDW ATER	62.05	0.00	62.05	0.0000	2.56	0.00	0
SLUG	POST OFFSITE GTB PIPE	65.73	0.00	65.73	0.0000	0.00	0.00	0
SLUG	POST OFFSITE MARS	66.28	0.00	66.28	0.0000	0.00	0.00	0
SLUG	POST OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.00	0.00	0
SLUG	RAIN TANK	67.50	0.00	64.62	-0.0010	38.35	2.56	20881
SWFWMD 100YR24HR	DIVERSION BOX 1	69.00	0.00	65.87	0.0010	0.08	0.08	100
SWFWMD 100YR24HR	DIVERSION BOX 2	69.00	0.00	66.58	-0.0183	1.03	18.37	100
SWFWMD 100YR24HR	DIVERSION BOX 3	69.00	0.00	67.40	-0.0200	0.07	19.98	100
SWFWMD 100YR24HR	GROUNDW ATER	62.05	0.00	62.05	0.0000	2.56	0.00	0
SWFWMD 100YR24HR	POST OFFSITE GTB PIPE	65.73	0.00	65.73	0.0000	0.08	0.00	0
SWFWMD 100YR24HR	POST OFFSITE MARS	66.28	0.00	66.28	0.0000	0.52	0.00	0
SWFWMD 100YR24HR	POST OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.00	0.00	0
SWFWMD 100YR24HR	RAIN TANK	67.50	0.00	66.58	-0.0010	38.35	2.56	20881
SWFWMD 25YR24HR	DIVERSION BOX 1	69.00	0.00	65.82	0.0010	0.05	0.04	100
SWFWMD 25YR24HR	DIVERSION BOX 2	69.00	0.00	66.28	-0.0183	0.12	18.37	100
SWFWMD 25YR24HR	DIVERSION BOX 3	69.00	0.00	67.40	-0.0200	0.11	19.98	100
SWFWMD 25YR24HR	GROUNDW ATER	62.05	0.00	62.05	0.0000	2.56	0.00	0
SWFWMD	POST	65.73	0.00	65.73	0.0000	0.04	0.00	0

Sim Name	Node Name	Warning Stage [ft]	Alert Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
25YR24HR	OFFSITE GTB PIPE							
SWFWMD 25YR24HR	POST OFFSITE MARS	66.28	0.00	66.28	0.0000	0.00	0.00	0
SWFWMD 25YR24HR	POST OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.00	0.00	0
SWFWMD 25YR24HR	RAIN TANK	67.50	0.00	65.98	-0.0010	38.35	2.56	20881
SWFWMD 50YR24HR	DIVERSION BOX 1	69.00	0.00	65.85	0.0010	0.06	0.06	100
SWFWMD 50YR24HR	DIVERSION BOX 2	69.00	0.00	66.28	-0.0183	0.11	18.37	100
SWFWMD 50YR24HR	DIVERSION BOX 3	69.00	0.00	67.40	-0.0200	0.11	19.98	100
SWFWMD 50YR24HR	GROUNDWATER	62.05	0.00	62.05	0.0000	2.56	0.00	0
SWFWMD 50YR24HR	POST OFFSITE GTB PIPE	65.73	0.00	65.73	0.0000	0.06	0.00	0
SWFWMD 50YR24HR	POST OFFSITE MARS	66.28	0.00	66.28	0.0000	0.00	0.00	0
SWFWMD 50YR24HR	POST OFFSITE SATURN	67.40	0.00	67.40	0.0000	0.00	0.00	0
SWFWMD 50YR24HR	RAIN TANK	67.50	0.00	66.25	0.0010	38.35	2.56	20881