CITY COMMISSION

AGENDA

City Hall Commission Chambers
300 W. Plant Street
Winter Garden, Florida

Regular Meeting **February 12, 2026** **6:30 PM**

Call to Order
Determination of a Quorum
Invocation and Pledge of Allegiance

1. Approval of Minutes

A. Regular Meeting Minutes – January 22, 2026

2. REGULAR BUSINESS

A. Recommendation to approve funding for Axon Body Camera Video System in the amount of $124,783.38 – **Police Chief Graham**

B. Board Appointment: **Code Enforcement Board** – **Police Chief Graham**

C. Recommendation to authorize City Manager execute amendment to the Farmers Market License Agreement charging weekly amenity fee to each vendor – **Economic Development Director Hutchinson**

D. Recommendation to approve **SITE PLAN** for 1211 Winter Garden Vineland Road (Resurrection Catholic Church), subject to conditions – **Planning Director Carson**

E. Recommendation to approve **SITE PLAN** for 13905 West Colonial Drive (RV Park Office Building), subject to conditions – **Planning Director Carson**

F. Recommendation to approve **SITE PLAN** for 14134 West Colonial Drive (Covenant Group), subject to conditions – **Planning Director Carson**

G. Recommendation to approve **SPECIAL EVENT** – Celtic Festival by Crooked Can Brewery (Plant Street Market) March 13, 14, and 15, 2026, subject to conditions – **Planning Director Carson**

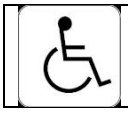
H. Recommendation to approve **SPECIAL EVENT** – Friends of Lake Apopka (FOLA) 40 Bike Ride – Downtown Pavilion, Sunday, April 19, 2026 – **Planning Director Carson**

3. **Matters From Public - (Limited to 3 minutes per speaker)**
4. **Matters From City Attorney - A. Kurt Ardaman**
5. **Matters From City Manager - Jon C. Williams**
6. **Matters From Mayor and Commissioners**
7. **Adjourn** to **Regular Meeting** on Thursday, **February 26, 2026** at **6:30 p.m.** in City Hall Commission Chambers, 300 W. Plant Street, 1st floor

NOTICES:
In accordance with Florida Statutes 286.0105, if any person decides to appeal any decision made by said body with respect to any matter considered at such meeting, he/she will need a record of the proceedings and, for that purpose, he/she may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based. The City of Winter Garden does not prepare or provide such record.

Any opening invocation that is offered before the official start of the Commission meeting shall be the voluntary offering of a private person, to and for the benefit of the Commission. The views or beliefs expressed by the invocation speaker have not been previously reviewed or approved by the City Commission or the city staff, and the City is not allowed by law to endorse the religious or non-religious beliefs or views of such speaker. Persons in attendance at the City Commission meeting are invited to stand during the opening invocation and to stand and recite the Pledge of Allegiance. However, such invitation shall not be construed as a demand, order, or any other type of command. No person in attendance at the meeting shall be required to participate in any opening invocation that is offered or to participate in the Pledge of Allegiance. You may remain seated within the City Commission Chambers or exit the City Commission Chambers and return upon completion of the opening invocation and/or Pledge of Allegiance if you do not wish to participate in or witness the opening invocation and/or the recitation of the Pledge of Allegiance. (Reference Resolutions 15-04 and 16-02)

Pursuant to Florida Statutes 282.601, 286.603, and the Americans with Disabilities Act (ADA), the City of Winter Garden makes every effort to ensure that those with disabilities have access to electronic information provided to the public, except when compliance with those sections impose an undue burden on the agency. In the event of difficulty accessing this publicly provided information, please contact the City Clerk's Office at (407) 656-4111, Ext. 6327, for assistance.

	Those needing assistance to participate in any of these proceedings should contact the City Clerk's Office at least 48 hours in advance of the meeting (407) 656-4111 Ext .6327		Help for the hearing impaired is available through the Assistive Listening System. Receivers can be obtained at the meeting from the Information Technology Department (407) 656-4111 Ext. 5455.

Minutes City Commission
January 22, 2026, 6:30 p.m.

A Regular Meeting of the City of Winter Garden City Commission was called to order by Mayor Rees at 6:30 PM at City Hall, 300 West Plant Street, Winter Garden, Florida. An Opening Invocation and Pledge of Allegiance were given.

Present:
Mayor John Rees
Commissioner District 1 - Lisa L. Bennett
Commissioner District 2 - Iliana R. Jones
Commissioner District 3 - Chloe Johnson
Commissioner District 4 - Colin Sharman

Also Present:
City Manager Jon C. Williams
City Attorney A. Kurt Ardaman
Interim City Clerk Ronisha Martin

1. Approval of Minutes

A. Regular Meeting Minutes – January 8, 2026
Motion by Commissioner Johnson to approve regular meeting minutes of January 8, 2026 as submitted. Seconded by Commissioner Jones and carried unanimously 5-0.

Items 2.A and 3.A were heard at this point in the meeting.

2. Presentation

A. Tri-County League of Cities — Commissioner Joseph McMullen and Commissioner Rosemary Wilsen
This was heard earlier in the meeting.

City of Ocoee Commissioner Rosemary Wilsen stated that she was representing the Tri-County League of Cities, inviting elected officials and staff to attend monthly lunch meetings for networking and information sharing. Ms. Wilsen highlighted guest speakers, and legislative updates. She announced ethics training scheduled for February 19th in Winter Park and encouraged participation, noting the meetings are open to both elected officials and staff.

Public Hearing

B. **RESOLUTION 26-02**: A RESOLUTION OF THE CITY OF WINTER GARDEN, FLORIDA, AMENDING ORDINANCE 19-21 ESTABLISHING THE PCD ZONING ON CERTAIN REAL

PROPERTY GENERALLY DESCRIBED AS APPROXIMATELY 0.58 ± ACRES OF CERTAIN REAL PROPERTY GENERALLY LOCATED AT 8 N. HIGHLAND AVENUE ON THE NORTHWEST CORNER OF N HIGHLAND AVENUE AND W PLANT STREET, (ALSO KNOWN AS THE WINTER GARDEN HOTEL PCD), APPROVING A MINOR AMENDMENT TO THE WINTER GARDEN HOTEL PCD TO EXTEND THE PCD, EXTEND THE SITE PLAN APPROVAL, EXTEND THE ARCHITECTURAL REVIEW AND HISTORIC PRESERVATION BOARD APPROVAL, ADDRESS THE EXPIRED STATUS OF THE IMPACT FEE DEFERRAL AND FORGIVENESS AGREEMENT, AND ADDRESS OFF-SITE PARKING REQUIREMENTS; PROVIDING FOR SEVERABILITY; PROVIDING FOR AN EFFECTIVE DATE

City Attorney Kurt Ardaman read Resolution 26-02 by title only. Planning Director Kelly Carson stated that Resolution 26-02 addresses a minor amendment to Ordinance 19-21 for the Winter Garden Hotel PCD at 8 North Highland Avenue, noting that the agenda packet included an incorrect map, which has been corrected. She explained that the resolution extends PCD, site plan approval and Architectural Review and Preservation Board approvals. She further stated that the previous impact fee waiver has been terminated, and the developer will be required to pay all applicable impact fees and account for site parking requirements, including downtown parking fees and off-site parking arrangements. Ms. Carson noted that all other requirements of Ordinance 19-21 and Resolution 21-02 remain unchanged and that the architectural design and site plan are consistent with prior approvals. Staff recommended approval.

Commissioner Jones disclosed that she would abstain from voting on this item.

Commissioner Bennett noted that the project had been well received during the prior community meeting and that the changes provide additional revenue for the city.

Mayor Rees opened the public hearing; and seeing none, he closed the public hearing.

Motion by Commissioner Sharman to approve Resolution 26-02. Seconded by Commissioner Johnson and carried 4-0-1; Commissioner Jones abstained.

Item 1. (January 8, 2026, meeting minutes) was addressed at this point in the meeting**.**

3. Regular Business

A. <u>Recommendation to award contract to Aabot Fence Inc. for Tucker Ranch Project in the amount of $648,848, with a 10% contingency</u>

City Manager Jon C. Williams stated that the city's construction manager received one proposal for bid Package 21 from Aabot Fence Inc. He noted that after two deductive change orders, the total was $648,848. Staff recommended awarding the contract to Aabot Fence Inc., with a 10% contingency for a total $713,732.

Motion by Commissioner Jones to award contract to Aabot Fence Inc, for Tucker Ranch Project in the amount of $648,848, with a 10% contingency. Seconded by Commissioner Bennett and carried unanimously 5-0.

B. Recommendation to hire Old World Masonry, All-Rite Fencing, and Southeastern Surveying and Mapping for Cemetery Column & Fence Extension at 13460 Lake Butler Blvd in the amount of $99,412.50, which includes a 10% contingency

Assistant City Manager for Public Services Steve Pash stated that this proposal is to install brick columns and aluminum fencing around the final section of the cemetery, following a path that avoids tree removal. Staff recommended approval.

Motion by Commissioner Johnson to hire Old World Masonry, All-Rite Fencing, and Southeastern Surveying and Mapping for Cemetery Column & Fence Extension at 13460 Lake Butler Blvd in the amount of $99,412.50, which includes a 10% contingency. Seconded by Commissioner Jones and Bennett simultaneously carried unanimously, 5-0.

C. Recommendation to approve SITE PLAN for 721 Garden Commerce Pkwy (LVS Building Addition), subject to conditions

Planning Director Kelly Carson stated that the applicant is requesting site plan approval to construct a single-story 10,053 square foot addition to the existing 6,204 square-foot flex industrial building. She informed of site improvement, compliance with PID zoning requirements, the comprehensive plan, and the code of ordinances. Staff recommended approval subject to staff conditions.

Motion by Commissioner Jones to approve Site Plan for 721 Garden Commerce Pkwy (LVS Building Addition), subject to conditions. Seconded by Commissioner Sharman carried unanimously 5-0.

D. Recommendation to approve SITE PLAN for 1061, 1063, and 1065 Tildenville School Road (Old Packing Plant), subject to conditions

Planning Director Kelly Carson stated that the applicant is requesting site plan approval for 1061, 1063, and 1065 Tildenville School Road, also known as the Old Packing Plant site. Ms. Carson informed that the proposal involves preserving and repurposing historic structures for community use, such as retail, food, and professional office space. The project includes improvements to parking, landscaping, sidewalks, bike and golf cart facilities, and outdoor seating areas. She noted that the plan complies with PCD zoning, the city's comprehensive plan, and code or ordinances. Staff recommended approval subject to staff conditions.

Motion by Commissioner Bennett to approve Site Plan for 1061, 1063, and 1065 Tildenville School Road (Old Packing Plant), subject to conditions. Seconded by Commissioner Johnson and carried unanimously 5-0.

E. Recommendation to waive formal procurement procedures and purchase quoted enterprise storage arrays in the amount of $130,653.69

Information Technology Director David Livingston stated that the city's enterprise storage arrays are due to be replaced and is requesting approval to waive formal procurement procedures and purchase three HPE storage arrays in the amount of $130,653.69. Mr. Livingston further stated that the proposed upgrade will allow for improved performance, reliability, and scalability across all visual servers while supporting the city's 2027 virtualization strategy.

There was discussion on current cloud storage usage, and staff confirmed that approximately fifteen percent of current storage resources are in use.

Motion by Commissioner Sharman to waive formal procurement procedures and purchase quoted enterprise storage arrays in the amount of $130,653.69. Seconded by Commissioner Bennett and carried unanimously 5-0.

4. Matters From Public

Sarah Wolf, 221 North Boyd Street Winter Garden, Florida, encouraged supporting local businesses, sharing a positive experience purchasing locally from Bettey J's Florist.

Alnardo Castellanos, 59 Zachary Wade Street, Winter Garden, Florida, expressed appreciation for city services and raised safety concerns along West Orange Trail, citing speeding vehicles, limited stop sign visibility, and near-miss incidents involving pedestrians and cyclists. He recommended improved signage, parking along the roadway and trail, and a traffic study related to the Packing Plant area.

Phil Baker, 125 West Plant Street, Winter Garden, Florida, inquired about cameras near Maxey on Story Road and Dillard Street and whether the data would remain within the city. He also suggested flashing school zone signs to improve compliance.

City Manager Jon C. Williams confirmed that data for the cameras are retained by a vendor and accessible through public records requests.

5. Matters From City Attorney

There were no items.

6. Matters From City Manager

City Manager Jon C. Williams reported progress on the Tucker Ranch Project, noting significant construction progress, drone footage plans, and anticipated phased openings beginning around September.

7. Matters From Mayor and Commissioners

Commissioner Bennett expressed excitement about the progress of the Tucker Ranch**.**

Commissioner Jones expressed appreciation for the Tucker Ranch project's greenery and thoughtful design.

Commissioner Sharman emphasized preserving original materials where possible while balancing structural needs.

Mayor Rees complimented staff on the Martin Luther King Day Parade, noting that despite the cold weather causing some participants to withdraw, the parade was well attended and successful, and thanked all participants and volunteers.

8. Adjourn

The meeting was adjourned at 7:01 p.m.

APPROVED:

_____
Mayor John Rees

ATTEST:

_____
Interim City Clerk Ronisha Martin

THE CITY OF WINTER GARDEN

CITY COMMISSION AGENDA ITEM

From: Steve Graham, Police Chief

Via: City Manager Jon C. Williams

Date: February 2, 2026 **Meeting Date:** February 12, 2026

Subject: Request the funding for Axon Body Camera Video System

Issue: This is a request to continue with contracted services with Axon for our body camera video system. We have an existing 5-year agreement for $124.783.38 per year. This is the 3rd year for this agreement and the funds have been budgeted for this fiscal year.

Recommended action: To approve the payment in an amount of $124,783.38 for this fiscal year.

Attachment: Axon Invoice.

Invoice

Axon Enterprise Inc.
PO BOX 29661
DEPARTMENT 2018
PHOENIX, AZ 85038-9661
Ph: 1-800-978-2737
arinquiries@axon.com
www.axon.com
TIN: 86-0741227
DUNS Number: 832176382
UEI Number: TBW7MGPYURM7

Invoice ID	INUS419264
Invoice Account	109323
Date	01-Feb-26
Payment Term	Net 30 days
PO/DO #	
Quote #	Q-474703,
Sales Order #	
Terms of Delivery	FCA
Customer Reference	Q-474703,

BILL TO
Winter Garden Police Dept.-FL
251 W Plant St
Winter Garden, FL 34787-3011
USA

SHIP TO
Winter Garden Police Dept.-FL
251 W Plant St
Winter Garden, FL 34787-3011
USA

Line No.	Ship to*	Item Number	Description	Quantity	Unit Price	Subtotal	Invoice Plan %	Amount
1	1	80464	AXON BODY - TAP WARRANTY - CAMERA Tax Date: 02/01/2026 Shipment Date: 02/01/2024	105.00	420.20	44,121.00	20.00000%	8,824.20
2	1	80465	AXON BODY - TAP WARRANTY - MULTI BAY DOCK Tax Date: 02/01/2026 Shipment Date: 02/01/2024	14.00	598.64	8,380.96	20.00000%	1,676.19
3	1	73689	AXON BODY - TAP REFRESH 1 - DOCK MULTI BAY Tax Date: 02/01/2026 Shipment Date:	14.00	1,483.27	20,765.78	20.00000%	4,153.16
4	1	73309	AXON BODY - TAP REFRESH 1 - CAMERA Tax Date: 02/01/2026 Shipment Date:	108.00	696.90	75,265.20	20.00000%	15,053.04
5	1	73686	AXON EVIDENCE - STORAGE - UNLIMITED (AXON DEVICE) Tax Date: 02/01/2026 Shipment Date:	105.00	1,344.23	141,144.15	20.00000%	28,228.83
6	1	73310	AXON BODY - TAP REFRESH 2 - CAMERA Tax Date: 02/01/2026 Shipment Date:	108.00	731.31	78,981.48	20.00000%	15,796.30

PAYMENT REMITTANCE INFORMATION

For ACH/EFT Payment: (Preferred Method)		For Wire Transfers		For Check Payments Mail To:	For Overnight Check Payments Mail
Account Name Account Number Bank Routing No Reference No	Axon Enterprise, Inc. 634912729 122100024 INUS419264	Beneficiary Account Number Bank Routing No SWIFT Code Reference No	Axon Enterprise, Inc. 634912729 021000021 CHASUS33 INUS419264	Axon Enterprise, Inc. PO BOX 29661 DEPARTMENT 2018 PHOENIX, AZ 85038-9661 Reference No INUS419264	Axon Enterprise, Inc. JPMorgan Chase (AZ1-2170) Attn: Axon Enterprises 29661-2018 2108 E Elliot Rd, Tempe, AZ 85283 Reference No INUS419264

Please reference the invoice number on your ACH, Wire or Check payment and send to AR@axon.com

Important Note: By selecting the wire transfer payment method, you agree to accept the processing & transaction fees charged by the bank relating to this wire

Invoice

Customer Account	Winter Garden Police Dept.-FL	Invoice ID	INUS419264
Invoice Account	109323	Date	01-Feb-26
Quote #	Q-474703,	Page	2 of 4

Line No.	Ship to*	Item Number	Description	Quantity	Unit Price	Subtotal	Invoice Plan %	Amount
7	1	73688	AXON BODY - TAP REFRESH 2 - DOCK MULTI BAY Tax Date: 02/01/2026 Shipment Date:	14.00	1,557.26	21,801.64	20.00000%	4,360.33
8	1	80464	AXON BODY - TAP WARRANTY - CAMERA Tax Date: 02/01/2026 Shipment Date: 02/01/2024	3.00	420.20	1,260.60	20.00000%	252.12
9	1	73746	AXON EVIDENCE - ECOM LICENSE - PRO Tax Date: 02/01/2026 Shipment Date:	10.00	2,538.60	25,386.00	20.00000%	5,077.20
10	1	11507	AXON BODY - MOUNT - RAPIDLOCK SINGLE MOLLE Tax Date: 02/01/2026 Shipment Date: 01/22/2024	105.00	7.83	822.15	20.00000%	164.43
11	1	100147	AXON BODY 4 - NA - US FIRST RESPONDER - BLK - RAPIDLOCK Tax Date: 02/01/2026 Shipment Date: 01/22/2024	12.00	749.00	8,988.00	20.00000%	1,797.60
12	1	100466	AXON BODY 4 - CABLE - USB-C TO USB-C Tax Date: 02/01/2026 Shipment Date: 01/22/2024	14.00	0.00	0.00	20.00000%	0.00
13	1	74028	WING CLIP MOUNT, AXON RAPIDLOCK Tax Date: 02/01/2026 Shipment Date: 01/22/2024	14.00	0.00	0.00	20.00000%	0.00
14	1	100206	AXON BODY 4 - 8 BAY DOCK Tax Date: 02/01/2026 Shipment Date: 01/22/2024	14.00	0.00	0.00	20.00000%	0.00
15	1	71019	NORTH AMER POWER CORD FOR AB3 8-BAY, AB2 1-BAY / 6-BAY DOCK Tax Date: 02/01/2026 Shipment Date: 01/22/2024	14.00	0.00	0.00	20.00000%	0.00
16	1	70033	WALL MOUNT BRACKET, ASSY, EVIDENCE.COM DOCK Tax Date: 02/01/2026 Shipment Date: 01/22/2024	14.00	0.00	0.00	20.00000%	0.00
17	1	100147	AXON BODY 4 - NA - US FIRST RESPONDER - BLK - RAPIDLOCK Tax Date: 02/01/2026 Shipment Date: 01/22/2024	93.00	0.00	0.00	20.00000%	0.00
18	1	100147	AXON BODY 4 - NA - US FIRST RESPONDER - BLK - RAPIDLOCK Tax Date: 02/01/2026 Shipment Date: 01/22/2024	3.00	0.00	0.00	20.00000%	0.00
19	1	74028	WING CLIP MOUNT, AXON RAPIDLOCK Tax Date: 02/01/2026 Shipment Date: 01/22/2024	103.00	0.00	0.00	20.00000%	0.00

Invoice

Customer Account	Winter Garden Police Dept.-FL	Invoice ID	INUS419264
Invoice Account	109323	Date	01-Feb-26
Quote #	Q-474703,	Page	3 of 4

Line No.	Ship to*	Item Number	Description	Quantity	Unit Price	Subtotal	Invoice Plan %	Amount
20	1	100466	AXON BODY 4 - CABLE - USB-C TO USB-C Tax Date: 02/01/2026 Shipment Date: 01/22/2024	103.00	0.00	0.00	20.00000%	0.00
21	1	73746	AXON EVIDENCE - ECOM LICENSE - PRO Tax Date: 02/01/2026 Shipment Date:	105.00	1,876.19	196,999.95	20.00000%	39,399.98

Sales Amount	124,783.38
Misc. Charge	0.00
Discount	0.00
Sales Tax	0.00
Total	124,783.38
Credit Amount(s) Applied	0.00
Amount Received	0.00

Payment Due **03-Mar-26** **BALANCE DUE** **USD** **124,783.38**

Invoice

Customer Account	Winter Garden Police Dept.-FL	Invoice ID	INUS419264
Invoice Account	109323	Date	01-Feb-26
Quote #	Q-474703,	Page	4 of 4

***Tax Note**

Ship-to-address Legend*

1	Winter Garden Police Dept.-FL 251 W Plant St Winter Garden, FL 34787-3011 USA

THE CITY OF WINTER GARDEN

CITY COMMISSION AGENDA ITEM

From: Steve Graham, Chief of Police

Via: Jon C. Williams, City Manager

Date: February 3, 2026 **Meeting Date:** February 12, 2026

Subject: Code Enforcement Board Appointment

Issue: One member of the Code Enforcement board recently resigned, leaving one board vacancy.

Discussion:

One members of the Code Enforcement Board recently resigned. That member is:

- Eddie Young, District 2, experienced in the Construction Management industry.

City Code does not have any requirements for this board that the appointees live within specific districts. The Code only requires that the seven members live within the City and states “membership of the code enforcement board shall be made on the basis of experience or interest in the fields of zoning and building control in the sole discretion of the city commission and shall, whenever possible, include an architect, a businessman, an engineer, a general contractor, a subcontractor and a realtor.”

Recommended action:

Motion to appoint a new member to the Code Enforcement Board.

CITY OF WINTER GARDEN - CITY CLERK'S OFFICE
300 WEST PLANT STREET - WINTER GARDEN, FL 34787
WWW.CWGDN.COM

BOARDS & COMMITTEES INTEREST

NAME: Ayhan Topgul

HOME ADDRESS: 1547 Juniper Hammock St. Winter Garden, Fl. 34787 DISTRICT # 1

PHONE: 321-888-9193 ALTERNATE: _____

EMAIL: readysetsail@icloud.com OCCUPATION: Finance Manager

U.S. CITIZEN? ☑ YES ☐ NO CITY RESIDENT? ☑ YES ☐ NO

REGISTERED VOTER? ☑ YES ☐ NO CITY EMPLOYEE? ☐ YES ☑ NO

PRIOR BOARD(S) YOU SERVED? Citizens Appeal Board

REFERENCE(S): _____ **LICENSE/CERTIFICATION(S)** _____

EDUCATION/EXPERIENCE: Bachelors/Political Sciene. Board Memeber, Guardian ad Litem Advocate.

ADDITIONAL CONSIDERATIONS _____

BOARD(S) OF INTEREST

THANK YOU FOR YOUR INTEREST IN SERVING ON ONE OF THE CITY'S BOARD/COMMITTEES.
VOLUNTEERS LIKE YOU ARE ESSENTIAL TO ENSURING THAT YOUR CITY GOVERNMENT IS RESPONSIVE TO THE NEEDS OF THE COMMUNITY.

PLEASE CHECK ALL THAT APPLY - SEE WEBSITE FOR DESCRIPTIONS

- ☐ Architectural Review & Historic Preservation
- ☐ General Employees Pension Board*
- ☐ Police & Firefighter Pension Board*
- ☐ Code Enforcement Board*
- ☐ Community Redevelopment Agency Advisory Board*
- ☐ Planning & Zoning Board*
- ☐ Election Canvassing Board

PLEASE NOTE:

- ALL VOLUNTEERS MUST ADHERE TO FLORIDA STATE STATUTES AS APPLICABLE TO CONFLICTS OF INTEREST
- THIS APPLICATION WILL BE SUBMITTED TO THE CITY COMMISSION FOR CONSIDERATION
- (*) MEMBERS SERVING ON THESE BOARDS ARE REQUIRED TO FILE AN ANNUAL FINANCIAL DISCLOSURE
- THIS FORM BECOMES A **PUBLIC RECORD** ONCE SUBMITTED TO THE CITY CLERK'S OFFICE

For office use only:

RECEIVED
NOV 20 2023
CITY CLERK

QUESTIONS?

CONTACT - CITY CLERK'S OFFICE - 407-656-4111 EXT. 2297
E-MAIL: CITYCLERK@CWGDN.COM

APPLICATIONS ARE KEPT ON FILE FOR ONE YEAR AND SUBMITTED FOR CONSIDERATION AS BOARD VACANCIES OCCUR

CITY OF WINTER GARDEN - CITY CLERK'S OFFICE
300 WEST PLANT STREET - WINTER GARDEN, FL 34787
WWW.CWGDN.COM

BOARDS & COMMITTEES INTEREST

NAME: Linda M. Pintro

HOME ADDRESS: 713 Orange Belt Loop, Winter Garden, FL 34787 DISTRICT # 1

PHONE: 703-582-0940 ALTERNATE: _____

EMAIL: lpintro@yahoo.com OCCUPATION: Attorney

U.S. CITIZEN? ☑ YES ☐ NO CITY RESIDENT? ☑ YES ☐ NO

REGISTERED VOTER? ☑ YES ☐ NO CITY EMPLOYEE? ☐ YES ☑ NO

PRIOR BOARD(S) YOU SERVED? Christian Help Employ. & Res. Ctr,The Nurture Place, InFirst FCU

REFERENCE(S): Jackie Avery/Brit Johnson **LICENSE/CERTIFICATION(S)** DC & PA Bar

EDUCATION/EXPERIENCE: JD/George Washington Univ.(1984); BA/Syracuse Univ.(1981)

ADDITIONAL CONSIDERATIONS Retired JAG, USAF(2009); Retired FCC (2024).

Volunteer: Poverty Solutions Group (Circles West Orange); Jobs Partnership

BOARD(S) OF INTEREST

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- ☐ Police & Firefighter Pension Board*
- ■ Code Enforcement Board*
- ■ Community Redevelopment Agency Advisory Board*
- ☐ Planning & Zoning Board*
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For office use only:

RECEIVED
DEC 19 2024
CITY CLERK

QUESTIONS?

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APPLICATIONS ARE KEPT ON FILE FOR ONE YEAR AND SUBMITTED FOR CONSIDERATION AS BOARD VACANCIES OCCUR

CITY OF WINTER GARDEN - CITY CLERK'S OFFICE
300 WEST PLANT STREET - WINTER GARDEN, FL 34787
WWW.CWGDN.COM

BOARDS & COMMITTEES INTEREST

NAME: Rebecca Hurst

HOME ADDRESS: 234 N. Lakeview Ave, WG, 34787 (aka "Birdhouse") DISTRICT # 1

PHONE: 615-260-4025 ALTERNATE: n/a

EMAIL: turtle177@gmail.com OCCUPATION: Foodservice Supply Chain Exec

U.S. CITIZEN? ☑ YES ☐ NO CITY RESIDENT? ☑ YES ☐ NO

REGISTERED VOTER? ☑ YES ☐ NO CITY EMPLOYEE? ☐ YES ☑ NO

PRIOR BOARD(S) YOU SERVED? Several in my industry, but none related to city governmental

REFERENCE(S): Nick Asma, Steve Pash **LICENSE/CERTIFICATION(S)** Several business & tech

EDUCATION/EXPERIENCE: BS Supply Chain, MBA, 25 years in foodservice supply chain leadership

ADDITIONAL CONSIDERATIONS After 44 years of being military & supply chain nomads, we are finally putting down roots and hoping to get more involved in helping our adoptive community.

BOARD(S) OF INTEREST

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- ☐ General Employees Pension Board*
- ☐ Police & Firefighter Pension Board*
- ☐ Code Enforcement Board*
- ☐ Community Redevelopment Agency Advisory Board*
- ☐ Planning & Zoning Board*
- ☐ Election Canvassing Board

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QUESTIONS?

CONTACT - CITY CLERK'S OFFICE - 407-656-4111 EXT. 2297
E-MAIL: CITYCLERK@CWGDN.COM

APPLICATIONS ARE KEPT ON FILE FOR ONE YEAR AND SUBMITTED FOR CONSIDERATION AS BOARD VACANCIES OCCUR

CITY OF WINTER GARDEN - CITY CLERK'S OFFICE
300 WEST PLANT STREET - WINTER GARDEN, FL 34787
WWW.CWGDN.COM

BOARDS & COMMITTEES INTEREST

NAME: Thomas Liebscher Morelli

HOME ADDRESS: [redacted] Winter Garden (exempt per F.S. 119.071) DISTRICT # 1

PHONE: 407-269-3341 ALTERNATE: 407-900-9515

EMAIL: tom@morelli-law.com OCCUPATION: Attorney

U.S. CITIZEN? ☑ YES ☐ NO CITY RESIDENT? ☑ YES ☐ NO

REGISTERED VOTER? ☑ YES ☐ NO CITY EMPLOYEE? ☐ YES ☑ NO

PRIOR BOARD(S) YOU SERVED? None with the City / HOA Board (Covington Chase) - Vice President

REFERENCE(S): Ben Rust - 850-443-8534 **LICENSE/CERTIFICATION(S)** Florida Bar - 104796

EDUCATION/EXPERIENCE: Juris Doctorate / Practicing Attorney

ADDITIONAL CONSIDERATIONS City of Winter Garden Resident for 8 years / Owner of Morelli Law located in Downtown Winter Garden (132 W. Plant Street, Suite 230)

BOARD(S) OF INTEREST

THANK YOU FOR YOUR INTEREST IN SERVING ON ONE OF THE CITY'S BOARD/COMMITTEES.
VOLUNTEERS LIKE YOU ARE ESSENTIAL TO ENSURING THAT YOUR CITY GOVERNMENT IS RESPONSIVE TO THE NEEDS OF THE COMMUNITY.

PLEASE CHECK ALL THAT APPLY - SEE WEBSITE FOR DESCRIPTIONS

- ☑ Architectural Review & Historic Preservation
- ☐ General Employees Pension Board*
- ☐ Police & Firefighter Pension Board*
- ☑ Code Enforcement Board*
- ☑ Community Redevelopment Agency Advisory Board*
- ☐ Planning & Zoning Board*
- ☐ Election Canvassing Board

PLEASE NOTE:

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- THIS APPLICATION WILL BE SUBMITTED TO THE CITY COMMISSION FOR CONSIDERATION
- (*) MEMBERS SERVING ON THESE BOARDS ARE REQUIRED TO FILE AN ANNUAL FINANCIAL DISCLOSURE
- **THIS FORM BECOMES A PUBLIC RECORD ONCE SUBMITTED TO THE CITY CLERK'S OFFICE**

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CITY CLERK

QUESTIONS?

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CITY OF WINTER GARDEN - CITY CLERK'S OFFICE
300 WEST PLANT STREET - WINTER GARDEN, FL 34787
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BOARDS & COMMITTEES INTEREST

NAME: Benjamin LaTorre

HOME ADDRESS: 753 Rainfall Drive DISTRICT # 2

PHONE: 407-394-9183 ALTERNATE: _____

EMAIL: blatorre4050@yahoo.com OCCUPATION: Auditor

U.S. CITIZEN? [✓] YES [ ] NO CITY RESIDENT? [✓] YES [ ] NO

REGISTERED VOTER? [✓] YES [ ] NO CITY EMPLOYEE? [ ] YES [✓] NO

PRIOR BOARD(S) YOU SERVED? Election

REFERENCE(S): Ron Mueller **LICENSE/CERTIFICATION(S)** _____

EDUCATION/EXPERIENCE: Masters in Accounting

ADDITIONAL CONSIDERATIONS Knights of Columbus

BOARD(S) OF INTEREST

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- [✓] Architectural Review & Historic Preservation
- [✓] General Employees Pension Board*
- [✓] Police & Firefighter Pension Board*
- [✓] Code Enforcement Board*
- [✓] Community Redevelopment Agency Advisory Board*
- [✓] Planning & Zoning Board*
- [✓] Election Canvassing Board

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WINTER GARDEN

CITY OF WINTER GARDEN - CITY CLERK'S OFFICE
300 WEST PLANT STREET - WINTER GARDEN, FL 34787
WWW.CWGDN.COM

BOARDS & COMMITTEES INTEREST

NAME: Karen Mcneil

HOME ADDRESS: 1407 Kenny Ct WG. FL 34787 DISTRICT # 3

PHONE: 407 775 8188 ALTERNATE: 407 654-6089

EMAIL: Mcneilvpk777@gmail.com OCCUPATION: Owner/Director Mcneil's Preschool Home LLC

U.S. CITIZEN? [x] YES [ ] NO CITY RESIDENT? [x] YES [ ] NO

REGISTERED VOTER? [x] YES [ ] NO CITY EMPLOYEE? [ ] YES [x] NO

PRIOR BOARD(S) YOU SERVED? Smile, Voxpopuli, CRN

REFERENCE(S): Annette Brown LICENSE/CERTIFICATION(S) Child Care

EDUCATION/EXPERIENCE: Child Development, Community Enhancement

ADDITIONAL CONSIDERATIONS I am a advocate For the East WG Community and the entire City OF Winter Garden.

BOARD(S) OF INTEREST

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- [ ] General Employees Pension Board*
- [ ] Police & Firefighter Pension Board*
- [x] Code Enforcement Board*
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APR 17 2023
CITY CLERK

QUESTIONS?

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CITY OF WINTER GARDEN - CITY CLERK'S OFFICE
300 WEST PLANT STREET - WINTER GARDEN, FL 34787
WWW.CWGDN.COM

BOARDS & COMMITTEES INTEREST

NAME: Christopher Wyszynski

HOME ADDRESS: 14954 Tullamore Loop DISTRICT # 4

PHONE: 904-718-8587 ALTERNATE: _____

EMAIL: ch.wyszynski@gmail.com OCCUPATION: Attorney

U.S. CITIZEN? ☑ YES ☐ NO CITY RESIDENT? ☑ YES ☐ NO

REGISTERED VOTER? ☑ YES ☐ NO CITY EMPLOYEE? ☐ YES ☑ NO

PRIOR BOARD(S) YOU SERVED? N/A

REFERENCE(S): Mike Milne 407-641-2111 **LICENSE/CERTIFICATION(S)** Florida Bar 84810

EDUCATION/EXPERIENCE: JD from FCSL 2010; FL Bar member 2010

ADDITIONAL CONSIDERATIONS Practice has focused on construction issues for six years, including lien, permitting, and development concerns.

BOARD(S) OF INTEREST

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QUESTIONS?

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E-MAIL: CITYCLERK@CWGDN.COM

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CITY OF WINTER GARDEN - CITY CLERK'S OFFICE
300 WEST PLANT STREET - WINTER GARDEN, FL 34787
WWW.CWGDN.COM

BOARDS & COMMITTEES INTEREST

NAME: Karina Martinez

HOME ADDRESS: 15317 Beamleigh Road Winter Garden FL 34787 DISTRICT # 4

PHONE: 3863338519 ALTERNATE: _____

EMAIL: karinaamartinez0@gmail.com OCCUPATION: Paralegal

U.S. CITIZEN? ☑ YES ☐ NO CITY RESIDENT? ☑ YES ☐ NO

REGISTERED VOTER? ☑ YES ☐ NO CITY EMPLOYEE? ☐ YES ☐ NO

PRIOR BOARD(S) YOU SERVED? N/A

REFERENCE(S): N/A **LICENSE/CERTIFICATION(S)** Project Manager - Notary

EDUCATION/EXPERIENCE: Project Manager - Notary license

ADDITIONAL CONSIDERATIONS _____

BOARD(S) OF INTEREST

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MAR 13 2025
City of Winter Garden
Office of City Clerk

PLEASE NOTE:

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CITY OF WINTER GARDEN - CITY CLERK'S OFFICE
300 WEST PLANT STREET - WINTER GARDEN, FL 34787
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BOARDS & COMMITTEES INTEREST

NAME: Pablo Gonzalez

HOME ADDRESS: 1932 Portcastle Circle DISTRICT # 4

PHONE: 4077294717 ALTERNATE: _____

EMAIL: pablocarlosgonzalez@gmail.com OCCUPATION: Real estate agent

U.S. CITIZEN? ☑ YES ☐ NO CITY RESIDENT? ☑ YES ☐ NO

REGISTERED VOTER? ☑ YES ☐ NO CITY EMPLOYEE? ☐ YES ☑ NO

PRIOR BOARD(S) YOU SERVED? N/A

REFERENCE(S): Mary Rebekah Gonzales **LICENSE/CERTIFICATION(S)** Real estate

EDUCATION/EXPERIENCE: Over 15 plus years in real estate development

ADDITIONAL CONSIDERATIONS I am very aware of code enforcement, real estate, development, and the desire to keep our community valued.

BOARD(S) OF INTEREST

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CITY CLERK

QUESTIONS?

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APPLICATIONS ARE KEPT ON FILE FOR ONE YEAR AND SUBMITTED FOR CONSIDERATION AS BOARD VACANCIES OCCUR

THE CITY OF WINTER GARDEN

CITY COMMISSION AGENDA ITEM

From: Marc Hutchinson, Economic Development Director

Via: Jon Williams, City Manager

Date: February 4, 2026 **Meeting Date:** February 12, 2026

Subject: Amendment to Farmers Market License Agreement

Discussion: The renewal of the Farmers Market license agreement was approved and executed on July 24th, 2025 between the City of Winter Garden and Red Top Productions, Inc. to govern the Farmers Market operations. In this agreement, the City does not charge a fee to Red Top Productions for operating the Farmers Market. To help offset the operating cost to maintain the Farmers Market/Downtown space including the pavilion restrooms and programming, the City is proposing a $5.00 amenity fee to be charged to each vendor per 10' x 10' space occupied. This amenity fee will be assessed by Red Top Productions as an additional fee paid by each vendor for their weekly market participation. The amenity fee will go into effect on March 7, 2026.

Recommended Action: Motion to approve authorizing City Manager to execute the amendment to the Farmers Market license agreement allowing a weekly amenity fee to be charged to each participating vendor.

Attachments/References:

Amendment to the License Agreement

Current License Agreement

AMENDMENT TO LICENSE AGREEMENT
(Saturday Farmers Market)

THIS AMENDMENT TO LICENSE AGREEMENT ("Agreement") is entered into as of February ____, 2026, by and between the **City of Winter Garden**, a Florida Municipal Corporation, having it principal address at 300 West Plant Street, Winter Garden, FL 34787 ("City") and **RED TOP PRODUCTIONS CORPORATION**, a Florida for profit corporation, having an address of 8062 South Cadiz Court, Orlando, FL 32836 ("Licensee").

RECITALS:

WHEREAS, City and Licensee previously entered into a License Agreement dated July 24, 2025 ("License Agreement") concerning the operation of the Saturday Farmers Market at the Pavilion Park property in Downtown Winter Garden located at the intersection of Tremaine Street and S. Lakeview Avenue; and

WHEREAS, the City and Licensee desire to amend Paragraph 5 of the License Agreement to address the imposition of a $5.00 per vendor space per farmer's market event amenity fee.

NOW, THEREFORE, in consideration of the foregoing, the mutual promises and obligations contained herein, the benefits to be derived therefrom, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, City and Licensee hereby agree as follows:

1. **Incorporation of Recitals.** The recitals set forth above are true and correct and are incorporated herein by reference.

2. **Amendment of License Agreement.** Paragraph 5 of the License Agreement is hereby amended to replace Paragraph 5 to read as follows:

> 5. **Consideration.** The City is not required to make any payments to Licensee for Licensee's performance pursuant to this Agreement. Licensee will receive the Event participation or registration fees charged and collected from vendors participating in the Events for which Licensee operates as payment to Licensee. Commencing on March 7, 2026, the Licensee shall pay to the City a $5.00 per 10'x10' vendor space per Event fee ("Amenity Fee") in order to offset the City's Downtown/Farmers Market programming cost, maintenance and upkeep of the licensed Farmers Market Area including the restrooms. On or before the 5th day of each month, the Licensee shall pay to the City the Amenity Fee for all Events occurring in the prior month. The Licensee shall have the right to charge and collect from each vendor the Amenity Fee as part of the participating or registration fees that Licensee charges to the vendors; however, the Licensee is responsible for paying the Amenity Fee to the City regardless of Licensee's ability to collect such from the vendors. The City shall have the right to an accounting of the number of vendors from Licensee for each Event in order to ensure that the City is being fully paid for the Amenity Fee. Licensee shall be responsible for any and all taxes due to the State of Florida and federal government in accordance with applicable statutes, codes and regulations arising from or relating to this Agreement and the Events.

3. Except as specifically amended herein, all other terms, covenants, and conditions of the Agreement shall remain in full force and effect. In the event of any conflict between the terms of this Amendment and the Agreement, the terms of this Amendment shall control.

IN WITNESS WHEREOF, the parties have duly executed and delivered this Amendment on the date first set forth above.

City of Winter Garden, a Florida municipal corporation

"City"

By:_____
Jon C. Williams, City Manager

Date:_____

RED TOP PRODUCTIONS CORPORATION, a Florida profit corporation
"Licensee"

By: Dana L. Brown
Dana L. Brown, President

Date: 2/4/26

LICENSE AGREEMENT
(Saturday Farmers Market)

THIS LICENSE AGREEMENT ("Agreement") is entered into as of July 24, 2025, by and between the **City of Winter Garden**, a Florida Municipal Corporation, having it principal address at 300 West Plant Street, Winter Garden, FL 34787 ("City") and **RED TOP PRODUCTIONS CORPORATION**, a Florida for profit corporation, having an address of 8062 South Cadiz Court, Orlando, FL 32836 ("Licensee").

RECITALS:

WHEREAS, City owns and controls that certain Pavilion Park property in Downtown Winter Garden located at the intersection of Tremaine Street and S. Lakeview Avenue ("Downtown Pavilion Property"); and

WHEREAS, City owns and controls the Tremaine Street and S. Lakeview Avenue public rights-of-way located in Downtown Winter Garden; and

WHEREAS, the Downtown Pavilion Property and those portions of Tremaine Street and S. Lakeview Avenue public rights-of-way identified within the boundaries described on the aerial map attached hereto as **Exhibit "A"** are herein called the "Farmers Market Area"; and

WHEREAS, Licensee is engaged in the business of managing and operating a Saturday Farmers Market during the hours of 8 a.m. to 1 p.m. on all Saturdays within the Farmers Market Area; and

WHEREAS, Licensee is to provide a manager to run the load in and operations of the Saturday Farmers Market, to handle all vendors and entertainment for weekly Saturday Farmers Market events, and to adopt and enforce reasonable restrictions and conditions for general attendance and vendor participation in the Saturday Farmers Market events; and

WHEREAS, City desires to provide Licensee with a license to control, operate and regulate the Saturday Farmers Market within the Farmers Market Area in the interest of safety and public enjoyment.

NOW, THEREFORE, in consideration of the foregoing, the mutual promises and obligations contained herein, the benefits to be derived therefrom, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, City and Licensee hereby agree as follows:

1. **Incorporation of Recitals.** The recitals set forth above are true and correct and are incorporated herein by reference.

2. **Grant and Acceptance of License.** City hereby grants to Licensee, and Licensee hereby accepts from City, subject to the terms, conditions and obligations set forth herein, a limited license to control, operate and regulate a Saturday Farmers Market within Farmers Market Area subject to the terms of this Agreement. The Saturday Farmers Market event (sometimes herein called the "Event(s)") will be held during the hours of 8 a.m. to 1 p.m. on Saturdays. In addition to having control and regulation of the Farmers Market Area during the Event hours, the Licensee will have the ability to regulate and control the Farmers Market Area for set up and take down activities 120 minutes in advance and 60 minutes after each Event. The license granted herein, includes a license for Licensee and its approved vendors to temporarily place tents and tables for vendor locations within the right-of-way areas and other City property within the Farmers Market Area during Events. While the City will allow temporary storage of Farmers Market event related tents, tables, chairs, signage, props, equipment and personal property on City-owned property as a convenience, the City reserves the right, at any time, to restrict or direct the Licensee's placement of tents, tables, barriers, vehicles, equipment, trailers, signage and other personal property within the Farmers Market Area. The City reserves all other rights within the Farmers Market Area for all other purposes and for all other days and times. The license granted herein is solely a license for the express purposes set forth in this Agreement and does not grant any leasehold, property or equitable interest in the Farmers Market Area to Licensee. The license granted herein is personal to Licensee and it does not run with the land and title to the Downtown Pavilion, rights-of-way or any other City property. City reserves all rights of ownership of the Downtown Pavilion and surrounding lands and rights-of-way.

3. **Event Attendance Rules**. The Licensee may set and enforce reasonable restrictions and conditions in compliance with Constitutional principles for the attendance of the Event concerning people entering the boundaries of the Farmers Market Area during the Event and during the Event set up and take down hours. Provided however, the Licensee may not restrict or condition access to the Farmers Market Area by any City official, employee or police officer. Licensee shall ensure that any of its restrictions and conditions for the attendance of the Event are prominently displayed in multiple locations as people enter the Farmers Market Area. Licensee will work with the City on the placement of barriers and other items to identify the boundaries of the Farmers Market Area.

4. **Term of Agreement and Termination.** The term of this Agreement shall commence on July 24, 2025 and shall expire on September 30, 2026. Thereafter, the term of this Agreement will automatically be extended each year in one-year increments on October 1st for up to three additional one-year renewal terms unless either party provides written notice to the other of its intent not to renew for another year at least thirty (30) days prior to October 1st. At any time, City or Licensee may terminate this Agreement for any reason, or no reason, without any penalty or cost to City, upon at least thirty (30) days prior written notice to the other party. Further, if the Licensee materially violates any term of this Agreement, the City shall have the right to suspend upcoming Event(s) and terminate this Agreement with at least ten (10) days prior written notice to the Licensee.

5. **Consideration.** The City is not charging Licensee a fee for the license granted herein relating to the use of the Farmers Market Area for the Events. The City is not required to make any payments to Licensee for Licensee's performance pursuant to this Agreement. Licensee will receive the Event participation or registration fees charged and collected from vendors participating in the Events for which Licensee operates as payment to Licensee. Licensee shall be responsible for any and all taxes due to the State of Florida and federal government in accordance with applicable statutes, codes and regulations arising from or relating to this Agreement and the Events.

6. **Licenses**. Licensee shall be responsible for and shall obtain any and all licenses required by the state, county or other governing entity, including any and all local business tax receipts or required licenses, and shall comply with applicable laws and regulations, including health regulations.

7. **Risk of Loss and Indemnification, and Liability Insurance.** Licensee agrees, for the term of this Agreement, that:

a. All property of any kind and nature belonging to Licensee, to any employee of Licensee, or to any person acting under the direction or control of Licensee located at or in the Farmers Market Area, will be at the sole risk of Licensee and not City. Licensee fully assumes the risks of loss for such matters.

b. Licensee shall indemnify and hold harmless the City and its elected and appointed officials and employees from and against any and all liabilities, damages, losses, expenses, claims, demands, penalties, suits, fines and causes of action as a result of (i) the negligence, gross negligence, recklessness, or intentional wrongful misconduct of, in whole or in part, the Licensee or Licensee's contractors', agents', employees' and invitees' or any person employed or utilized by the Licensee in performance under this Agreement or the control, regulation and use of the Farmers Market Area, (ii) any claim, damage, personal injury and/or death occasioned by the performance or non-performance of this Agreement, whether such loss or damage is caused, in whole in part by Licensee, an employee or invitee of Licensee, any vendor authorized by Licensee, or any person acting under the direction or control of Licensee; (iii) any claim or damage arising, in whole or in part, from Licensee's enforcement of its restrictions and conditions for the attendance of the Event concerning people entering the boundaries of the Farmers Market Area; and (iv) any risk assumed, in whole or in part, by Licensee under this Agreement; or (v) any combination thereof.

c. Licensee shall indemnify and hold harmless the City and its elected and appointed officials and employees from and against any claim or damage resulting from goods, services or equipment provided or to be provided by or arranged through Licensee to any customer, vendor or employees, or resulting from any action or inaction on the part of Licensee, any

employee of Licensee, or any person acting under the direction or control of Licensee in performing under this Agreement, in whole or in part.

d. Licensee agrees to maintain through the term of this Agreement commercial general liability insurance in the amount of TWO MILLION AND NO/100 DOLLARS ($2,000,000.00) in the general aggregate and TWO MILLION AND NO/100 DOLLARS ($2,000,000.00) for each occurrence, for personal and bodily injury or death, and for property damage, which the City of Winter Garden must be a named, additional insured. Such commercial liability insurance coverage shall be primary and non-contributory over and above any other available liability insurance or self-insurance coverage available to the City at the time of any claims or lawsuits made as a result of, or covered by, this agreement. Licensee shall maintain employer's liability and workers' compensation insurance as required by law. Licensee shall name Historic Downtown Winter Garden Merchant's Guild, Inc. and the City of Winter Garden as additional insureds, and shall provide to City a certificate of insurance and declaration sheet that shows policies with currently in-force effective dates. Insurance Certificates should evidence waiver of subrogation in favor of City, Licensee and Historic Downtown Winter Garden Merchant's Guild, Inc. The issuing company should provide 30 days notice of cancellation and have a minimum AM Best rating of A-XII. Licensee's policies shall be primary.

e. Licensee will also maintain workers' compensation insurance except where exempted by state law.

f. This Paragraph 7 shall survive termination and expiration of this Agreement.

8. **Licensee's Employees.** Licensee shall staff the Events with its employees, subject to the following terms and conditions:

a. Employees of Licensee will staff the Events in a manner satisfactory to City in its sole discretion;

b. If requested by City, Licensee shall increase the number of Licensee employees staffing the Events to guarantee a high level of service to Farmers Market Area Guests;

c. Licensee shall be solely responsible for compensating its employees or representatives and providing all employment-related benefits required by law or agreement;

e. All employees or representatives of Licensee will function under the direction and control of Licensee;

f. Recognizing that its employees or representatives will interface directly with Customers, Licensee will provide only employees or representatives who are knowledgeable about the services to be offered in accordance with this Agreement;

g. Recognizing the need to provide a high level of service to Customers, Licensee will, upon request, replace immediately any Licensee employee or representative who fails to provide a high level of service, or who engages in any illegal, immoral, offensive, or other behavior detrimental to City, City's employees, Lessor or any Customer;

h. Licensee shall provide all supplies and materials necessary for its employees or representatives to provide for the Events;

i. Employees or representatives of Licensee shall be well groomed and neat in appearance at all times and shall be courteous and polite to Farmers Market Area Guests at all times;

j. Customers' claims for damages arising under this Agreement shall be handled promptly and courteously by Licensee, its employees or its Representatives and such claims shall not in any way be the responsibility of City, Lessor (if any), or their personnel.

k. Licensee further represents and warrants to City that Licensee has subjected all Licensee's Company employees or its Representatives to a statewide criminal and juvenile background check through the State Department of Law Enforcement and a federal criminal records check through the Federal Bureau of Investigation, and all criminal background checks must be performed in conformance with the Fair Credit Reporting Act, as well as drug testing by a testing lab which has been certified by the United States Department of Health and Human Services and/or National Institute of Drug Abuse, as well as state drug testing and privacy laws. Licensee further represents and warrants that any employees or Representatives which do not satisfactorily pass such checks/testing will not be assigned to the Farmers Market Area.

l. Licensee, its employees and its Representatives agree to comply with reasonable rules and regulations as may be adopted by the City from time to time, including such rules and regulations that may impact the Licensee's operations and activities relating to the Events and use and access of the Farmers Market Area.

m. Any restrictions and rules to be adopted, posted and enforced by Licensee for the Event are subject to prior review and approval by the City Manager. Further, at any time upon request by the City (including after prior City Manager approval), Licensee agrees to modify any of its restrictions and rules for general attendance of the Farmers Market Event that conflict with any City rules and regulations or for which the City may otherwise reasonably object.

n. Licensee will train its employees, Representatives, agents and Vendors on how to properly enforce Licensee's reasonable rules and regulations of the Event and in compliance with Constitutional rights.

9. **Sovereign Immunity.** Nothing in this Agreement shall constitute a waiver of the City's sovereign immunity protections and defenses, or any other privileges, immunities, protections and defenses afforded to City or any of its officials, employees and agents by law. This Agreement does not restrict the City's police power or ability to regulate the use and activities of the Farmers Market Area or Events. Nothing in this Agreement shall require the City or its officials, employees, or police officers to enforce the Event rules and restrictions.

10. **Advertising and Promotional Materials.** Licensee agrees to assist in marketing Events and all advertising, promotional, and other materials used by Licensee and its employees in promoting the Events must be approved by City prior to use. The City may post information about the Farmers Market Event on its website and other informational materials. Licensee will ensure that Vendors agree that by Vendor's operation at the Farmers Market Event, Vendor consents to the Licensee's and City's right to photograph or video any Vendor or Vendor booth for the use of advertising or promotion of the Farmers Market Event. All images and databases relating to the Events will become shared property of the City of Winter Garden and Red Top Productions Corporation.

11. **Notices.** All notices and other communications under this Agreement shall be in writing, and must be hand-delivered or sent by United States certified mail, return receipt requested, postage prepaid, to the addresses listed as follows, or such other address as a party for itself shall have given notice:

CITY: City of Winter Garden
Attn: City Manager
300 W. Plant Street
Winter Garden, FL 34787

LICENSEE: Red Top Productions Corporation
Attn: Dana Brown, President
8062 South Cadiz Court
Orlando, FL 32836

Notices shall be effective upon delivery, if hand-delivered, or upon the date of postmark, if sent certified mail, return receipt requested, postage prepaid.

12. **Attorneys' Fees and Costs/Venue.** In any action at law or in equity brought under this Agreement, the prevailing party shall be reimbursed by the other party for all costs of bringing or defending the action through the completion of all appeals, including but not limited to reasonable attorney and paralegal fees, filing fees, and court costs. The exclusive venue for any litigation arising out of or relating to this Agreement shall be a court of competent jurisdiction in Orange County, Florida.

13. **Entire Agreement, Modification and Severability.** This Agreement expresses the entire agreement between the parties. The party's duties hereunder shall not be modified, changed, or rescinded by any oral or verbal promise, and no written modification or change of this Agreement shall be binding until such written modification shall have been approved in writing by an authorized representative of both parties. The validity, legality, or enforceability of any provision hereof or of the application of any provision to any particular situation or circumstance shall not in any way affect, impair, invalidate, or render unenforceable this Agreement or any other provision hereof or the application of such provision to different situations or circumstances.

14. **Waiver.** If either party waives a breach of this Agreement or fails to exercise any right under this Agreement, such waiver or failure to exercise rights shall not be construed as a waiver of any subsequent breach or right under this Agreement, or affect the party's rights thereafter to exercise such rights. Licensee voluntarily disclaims, releases and waives any claim or action for monetary damages against the City arising out of or relating to this Agreement or Licensee's control, regulation or use of the Farmers Market Area, except for any recovery that may be awarded pursuant to Paragraph 12.

15. **Construction.** Paragraph and section headings contained in this Agreement are for convenience and reference only and shall in no way be used to construe or modify the provisions of this Agreement. Pronouns of any gender shall include and mean all other genders and singular shall include the plural, as the context may require.

16. **No Joint Venture.** This Agreement does not create a partnership or joint venture. Any intention to create a joint venture or partnership relationship between City and Licensee is hereby disclaimed.

17. **Compliance with Laws and Regulations.** City and Licensee shall comply with all federal, state, county, municipal, and other government statutes, laws, ordinances, rules, regulations or orders affecting their respective business at their sole cost and expense.

18. **No Conflicts.** City represents that the execution of this Agreement does not violate or conflict with any other agreement City has with any third parties. Licensee is relying on this representation and consequently City covenants to indemnify and hold Licensee harmless from any and all claims, actions, damages, judgments, or expenses (including attorney and paralegal fees and costs through appeal) which may arise from any set of facts contrary to City's representation herein. In the event a claim is made by a third party that this Agreement conflicts in any way with any claimed rights or privileges of a third party, Licensee, at its option, may terminate this Agreement immediately upon written notice to City.

19. **Insolvency/Dissolution**. The following occurrences or events shall constitute a material default of this Agreement by Licensee and grounds for immediate termination of this Agreement by the City: (i) the filing by or against Licensee in any court, pursuant to any statute, either of the United States or any state, of a petition in bankruptcy alleging insolvency or seeking reorganization, the appointment of a receiver or trustee, an arrangement under the Bankruptcy Acts, or any similar type of proceeding and the failure of Licensee to cause any such filing to be dismissed within a period of 20 days after the date of such filing; (ii) Licensee's making or proposed making of an assignment for the benefit of creditors; or (iii) dissolution of Licensee's corporate entity.

20. **Survival of Provisions.** All provisions of this Agreement which could have application after termination of this Agreement shall survive termination of this Agreement. This Agreement shall supersede and replace all previous agreements between the parties concerning the matters addressed herein.

21. **No Assignment.** Licensee shall not, in whole or part, assign, transfer, pledge as security, mortgage, or otherwise transfer or encumber all or any part of this Agreement, or Licensee's interest in this Agreement.

IN WITNESS WHEREOF, the parties have duly executed and delivered this Agreement on the date first set forth above.

City of Winter Garden, a Florida municipal corporation

"City"

By: _____
Jon C. Williams, City Manager

Date: 7/24/2025

RED TOP PRODUCTIONS CORPORATION, a Florida profit corporation
"Licensee"

By: _____
Dana L. Brown, President

Date: July 17 2025

Exhibit A

Farmers Market Area

THE CITY OF WINTER GARDEN

CITY COMMISSION AGENDA ITEM

From: Kelly Carson, Planning Director

Via: City Manager Jon C. Williams

Date: February 4, 2026 **Meeting Date:** February 12, 2026

Subject: 1211 Winter Garden Vineland Road (Resurrection Catholic Church Renovations)
Site Plan Approval
PARCEL ID# 12-22-27-6496-29-010

Issue: The applicant is requesting Site Plan Approval for the property located at 1211 Winter Garden Vineland Road.

Discussion: The applicant is requesting site plan approval to permit the renovation of the church, narthex expansion and redesign of the courtyard and parking.

The 9.84 +/- acre subject property is designated COM (Commercial) on the City's Future Land Use Map and is zoned C-2 (Arterial Commercial District).

Recommended Action:

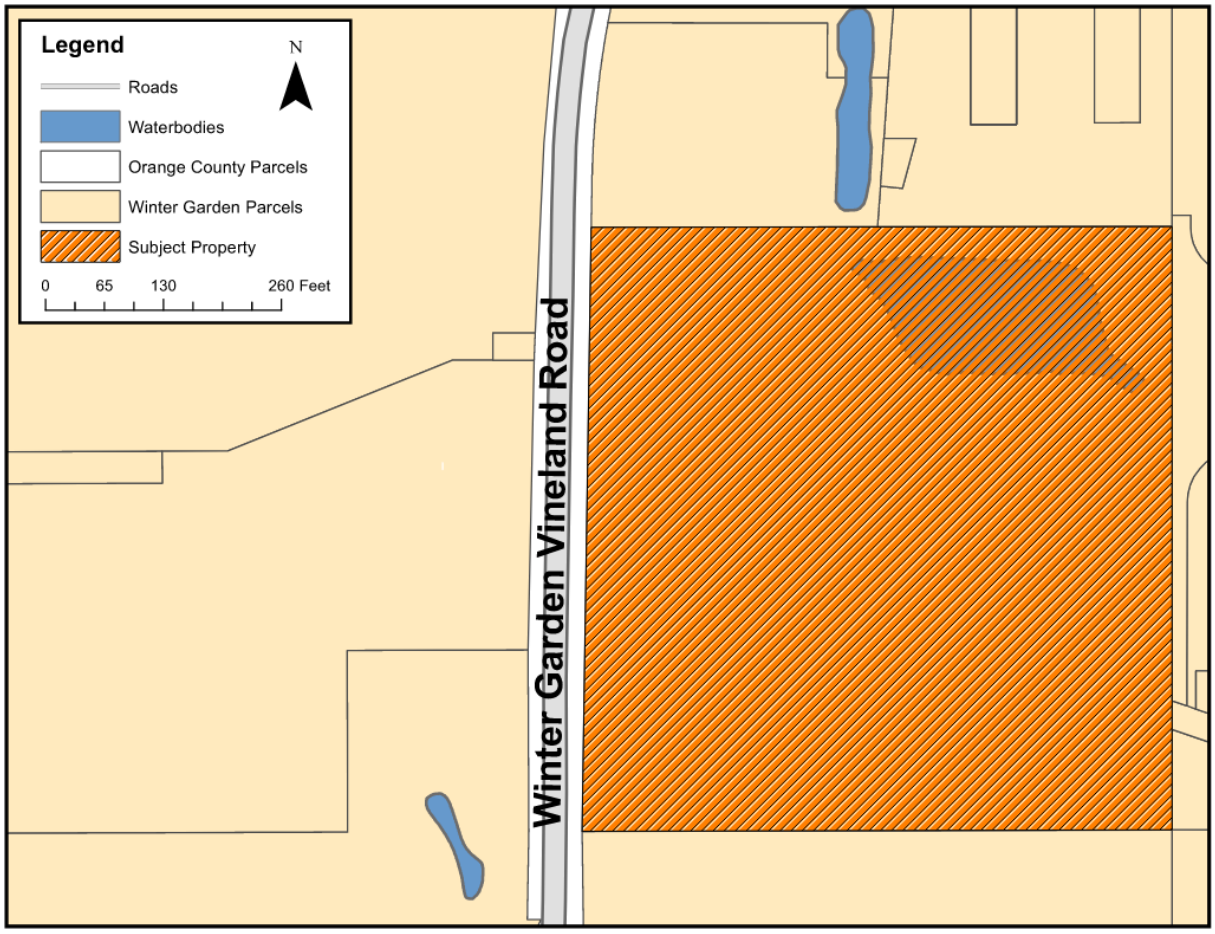
Staff recommends approval of the proposed Site Plan subject to the conditions of the DRC staff report dated January 23, 2026. Development of the property is consistent with the City's Comprehensive Plan and the property's C-2 zoning requirements.

Attachment(s)/References:

Location Map
Site Plan
Building Elevations
DRC Combined Comments

Location Map

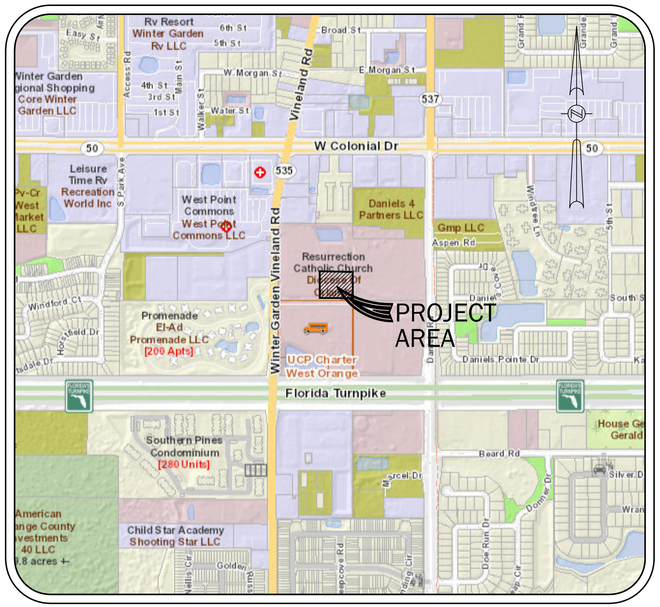
1211 Winter Garden Vineland Road



CONSTRUCTION PLANS
RESURRECTION CATHOLIC CHURCH
1211 WINTER GARDEN VINELAND ROAD
WINTER GARDEN, FLORIDA

PARCEL I.D. No. 12-22-27-6496-29-010

SITE VICINITY MAP



NOT TO SCALE

PLAN INDEX

C-1	COVER SHEET
C-2	EXISTING CONDITIONS
C-3	LEGEND, NOTES AND SPECIFICATIONS
C-4	SITE DEMOLITION AND STORMWATER POLLUTION PREVENTION PLAN
C-5	SITE DEMOLITION AND STORMWATER POLLUTION PREVENTION PLAN NOTES
C-6	OVERALL SITE PLAN
C-7	SITE GEOMETRY PLAN PHASE 1
C-8	SITE GEOMETRY PLAN
C-9	SITE PAVING, GRADING & DRAINAGE PLAN
C-10	SITE CROSS SECTIONS (1 OF 2)
C-11	SITE CROSS SECTIONS (2 OF 2)
C-12	SITE CONSTRUCTION DETAILS
C-13	CITY OF WINTER GARDEN DETAILS (1 OF 2)
C-14	CITY OF WINTER GARDEN DETAILS (2 OF 2)
E0.001	SYMBOL LEGEND, GENERAL NOTES & SPECIFICATIONS
E1.101	PHOTOMETRICS PLAN
E1.201	SITE LIGHTING POWER PLAN
E1.401	DETAILS AND SCHEDULES
L-1	SITE LANDSCAPE PLAN
L-2	SITE IRRIGATION PLAN

OWNER: DIOCESE OF ORLANDO
P.O. BOX 1800
ORLANDO, FL. 32802
PHONE: (407) 246-4895

ARCHITECT: HOUSEMAN ARCHITECTURE
1201 S. ORLANDO AVENUE
WINTER PARK, FL 32789
PHONE: (321) 972-8446

SURVEYOR: ACCURIGHT SURVEYS OF ORLANDO
2012 E. ROBINSON STREET
ORLANDO, FL 32803
PHONE: (407) 894-6314

PERMITTING AGENCIES
S.J.R.W.M.D.: ENVIRONMENTAL RESOURCE PERMIT
CITY OF WINTER GARDEN: SITE PLAN APPROVAL
F.D.E.P. : NPDES PERMIT

UTILITY COMPANIES

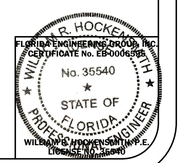
WATER:	(407) 656-4111	CITY OF WINTER GARDEN
SEWER:	(407) 656-4111	CITY OF WINTER GARDEN
ELECTRIC:	(407) 905-3376	DUKE ENERGY
TELEPHONE:	(407) 814-5293	CENTURYLINK WINTER GARDEN
CABLE:	(407) 532-8509	CHARTER COMMUNICATIONS
GAS:	(407) 656-2734	LAKE APOPKA NATURAL GAS

VERTICAL DATUM: NGVD 29

FEG FLORIDA ENGINEERING GROUP
now part of
THOMAS & HUTTON

5127 S. Orange Avenue, Suite 200
Orlando, FL 32809
Phone: 407-895-0324
Fax: 407-895-0325

www.thomasandhutton.com



23-110_COVER.DWG

PLAT OF SURVEY

DESCRIPTION

Commence at the Northeast corner of Block 3, OVERSTREET CRATE COMPANY, as recorded in Plat Book F, Page 9, of the Public Records of Orange County, Florida, also being the North 1/4 corner of Section 26, Township 22 South, Range 27 East, Orange County, Florida; thence run S00°08'43"E along the East line of said Block 3 and the East line of the Northwest 1/4 of said Section 26, a distance of 794.92 feet; thence N89°59'55"W, 30.00 feet for a POINT OF BEGINNING on the West right of way line of Daniels Road; thence S00°08'43"E along said right of way line 531.02 feet to the South line of the Northeast 1/4 of said Northwest 1/4 of Section 26; thence S89°51'08"W along said South line of the Northeast 1/4 of the Northwest 1/4 a distance of 1289.57 feet to the East right of way line of Winter Garden–Vineland Road (State Road 535); thence N01°05'15"E along said right of way line 664.88 feet to the North line of the Southwest 1/4 of the Northeast 1/4 of the Northwest 1/4 of Section 26; thence N89°55'51"E along said North line of the Southwest 1/4 of the Northeast 1/4 of the Northwest 1/4 a distance of 637.63 feet to the Northeast corner of said Southwest 1/4 of the Northeast 1/4 of the Northwest 1/4 of Section 26; thence S00°02'26"W along the East line of said Southwest 1/4 of the Northeast 1/4 of the Northwest 1/4 of Section 26 a distance of 131.05 feet; thence S89°59'19"E 638.06 feet to the Point of Beginning.

LESS THAT PART TAKEN FOR RIGHT–OF–WAY PER OFFICIAL RECORDS BOOK 7144, PAGE 864, PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA.

Contains 759,630 square feet or 17.439 acres more or less.

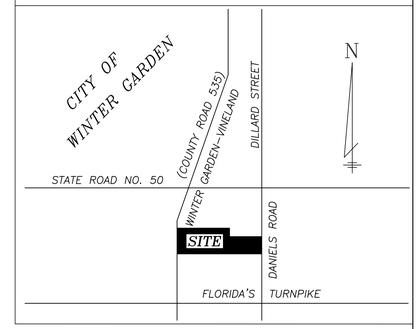
N

GRAPHIC SCALE

0′ 30′ 60′ 120′ 180′

1″ = 60′

VICINITY MAP N.T.S.



LOT 2
MACAL I SUBDIVISION
PLAT BOOK 39, PAGES 107 AND 108

BLOCK 3
OVERSTREET CRATE COMPANY
PLAT BOOK F, PAGE 9

PART OF BLOCK 3
OVERSTREET CRATE COMPANY
PLAT BOOK F, PAGE 9

BLOCK 3
OVERSTREET CRATE COMPANY
PLAT BOOK F, PAGE 9

LEGEND

- BB – BOTTOM OF BANK
- BC – BACK OF CURB
- BFP – BACKFLOW PREVENTER
- BM – BENCHMARK
- BPC – BURIED POWER CABLE
- CALC – CALCULATED
- C&M – CALCULATED & MEASURED
- C&G – CURB & GUTTER
- Δ – CENTRAL ANGLE
- CBW – CONCRETE BLOCK WALL
- CF – CONCRETE FLUME
- CHW – CONCRETE HEAD WALL
- CLF – CHAIN LINK FENCE
- ℄ – CENTERLINE
- CM – CONCRETE MONUMENT
- CMP – CORRUGATED METAL PIPE
- CO – CLEAN OUT
- CONC – CONCRETE
- COVD – COVERED
- CP – CONCRETE PAD
- CW – CONCRETE WALKWAY
- D&M – DEED/DESC & MEASURED
- DE – DRAINAGE EASEMENT
- DESC – DESCRIPTION
- ◉ – DOT INLET
- DP – DUMPSTER PAD
- DW – DRIVEWAY
- EM – ELECTRIC METER
- EB – ELECTRICAL BOX
- ESMT – EASEMENT
- E/P – EDGE OF PAVEMENT
- FIRM – FLOOD INSURANCE RATE MAP
- FFE – FINISHED FLOOR ELEVATION
- FH – FIRE HYDRANT
- FL – FLOW LINE
- FND – FOUND
- FOC – FIBER OPTIC CABLE
- –G– – GAS LINE
- GM – GAS METER
- GW – GUY WIRE ANCHOR
- HC – HANDICAP PARKING
- HR – HANDICAP RAMP
- INV – INVERT ELEVATION
- IP – IRON PIPE
- IR – IRON ROD
- L – ARC LENGTH
- LP – LIGHT POLE
- LS – LIFT STATION
- LSA – LANDSCAPED AREA
- MEAS – MEASURED
- ⊂ – MITERED END SECTION
- ◎ – MONITORING WELL
- NAIL – NAIL & DISK
- NGVD – NATIONAL GEODETIC VERTICAL DATUM
- NTS – NOT TO SCALE
- OHE – OVERHEAD ELECTRIC
- OL – ON LINE
- ORB – OFFICIAL RECORDS BOOK
- OW – OVERHEAD WIRE
- PB – PLAT BOOK
- PC – POINT OF CURVATURE
- PEP – PIER ENGINEERING PLANS
- PG – PAGE
- PI – POINT OF INTERSECTION
- P&M – PLAT & MEASURED
- POB – POINT OF BEGINNING
- POC – POINT OF COMMENCEMENT
- PP – POWER POLE
- PS – PARKING SPACES
- PT – POINT OF TANGENCY
- PVC – PLASTIC PIPE
- R – CURVE RADIUS
- RCP – REINFORCED CONCRETE PIPE
- R/W – RIGHT OF WAY
- ◉ – SANITARY MANHOLE
- SAN – SANITARY LINE
- SN – SIGN
- 00.00 – SPOT ELEVATION
- –SD– – STORM/DRAIN LINE
- ◉ – STORM MANHOLE
- T – TRANSFORMER
- –T– – UNDERGROUND TELEPHONE
- ■ – STORM INLET
- TB – TOP OF BANK
- TP – TRAFFIC POLE
- TS – TRAFFIC SIGN
- TR – TELEPHONE RISER
- TSB – TRAFFIC SIGNAL BOX
- TSW – TRAFFIC SIGNAL WIRE
- TV – CABLE TV RISER
- TYP – TYPICAL
- UE – UTILITY EASEMENT
- UP – UTILITY POLE
- –W– – WATER LINE
- WF – WOOD FENCE
- ⊙ – WATER METER
- ⋈ – WATER VALVE
- # – NUMBER
- ⓔ – EASEMENT NUMBER

TABLE OF INVERTS

INLET A
(OVERFLOW STRUCTURE)
TOP = 118.28'
W INV = 115.09'
WEIR = 116.78'

INLET B
(OVERFLOW STRUCTURE)
TOP = 119.96'
W INV = 116.79'
WEIR = 117.96'

INLET C
TOP = 119.98'
S INV = 118.18'

MANHOLE D
TOP = 120.63'
N INV = 113.96' (6" PVC)
S INV = 114.09' (6" PVC)

INLET E
TOP = 119.04'
(FILLED IN)

INLET F
TOP = 119.07'
(FILLED IN)

NOTES:

1. *BEARING STRUCTURE BASED ON THE EAST R/W LINE OF STATE ROAD 535 BEING: N00°43'21"E.*
2. *THIS SURVEY REFLECTS ONLY MATTERS OF RECORD AS PROVIDED BY THE CLIENT OR CLIENTS REPRESENTATIVE.*
3. *THIS IS AN ABOVE GROUND SURVEY. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.*
4. *THIS SITE IS IN A FLOOD PRONE AREA, IT IS IN ZONE A, AN AREA OF MINIMAL FLOODING BASED ON FLOOD INSURANCE RATE MAP, PANEL NO. 120187 0215 E, CITY OF WINTER GARDEN, FLORIDA.*
5. *ELEVATIONS BASED ON ORANGE COUNTY DATUM, BM #D–198–004 BEING: 121.783 FEET, (NGVD 29).*
6. *ACCORDING TO FLORIDA STATUTES, CHAPTER 472.025, A LAND SURVEYOR SHALL NOT AFFIX HIS SEAL OR NAME TO ANY PLAN OR DRAWING WHICH DEPICTS WORK WHICH HE IS NOT LICENSED TO PERFORM OR WHICH IS BEYOND HIS PROFESSION OR SPECIALTY THEREIN. THEREFORE, WE ARE UNABLE TO CERTIFY AS TO MUNICIPAL ZONING COMPLIANCE, INTERPRETATION OF ZONING CODES OR THE DETERMINATION OF VIOLATIONS THEREOF.*
7. *THIS SURVEY MADE WITHOUT BENEFIT OF COMMITMENT FOR TITLE.*

L1 N00°10'55"W 54.19' D&M

L2 N00°10'55"W 106.21' D&M

Current BOUNDARY SURVEY DATE: 12–5–07
per Florida Statutes 61G17–6.003 2d

DATE:	REVISION	BY:
12–5–07	ASBUILT SURVEY	DCM
7/25/07	RESURVEY	ML
8/10/06	EXISTING BUILDINGS SHOWN PER PLANS	JB
7/24/06	ADDITIONAL TOPOGRAPHY AND TREES IN SPECIFIED AREA	SAH

AS–BUILT SURVEY

SCALE: 1″ = 60′ | CF# OCF–9RESURRECTION | JOB# 17548
DATE: 10–7–02 | DRAWN BY: JB
PREPARED FOR: MCCREE CONSTRUCTION
LOCATION: 1211 WINTER–GARDEN VINELAND ROAD CITY OF WINTER GARDEN; SECTION 26–22–27
FILE NUMBER: OVERSTREET CRATE COMPANY RESURRECTION CHURCH

DATE	REVISIONS	BY	CHECKED
1/13/2026	3 PER CITY COMMENTS RECEIVED 1/12/2026	WRH	WRH
10/31/2025	2 PER CITY COMMENTS DATED 6/12/2025	WRH	WRH
10/31/2025	1 PER SJRWMD COMMENTS DATED 5/21/2025	WRH	WRH

CONSTRUCTION PLANS
RESSURECTION CATHOLIC CHURCH
1211 WINTER GARDEN VINELAND ROAD
WINTER GARDEN, FLORIDA

FEG FLORIDA ENGINEERING GROUP
now part of THOMAS & HUTTON

5127 S. Orange Avenue, Suite 200
Orlando, FL 32809
Phone: 407-895-0324
Fax: 407-895-0325
www.thomasandhutton.com

EXISTING CONDITIONS

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
WRH	CRR	WRH	WRH

PROJECT NO. 23-110
SCALE 1″=60′
DATE MARCH 31, 2025
SHEET NO. C-2
SHEET 2 OF 20

FLORIDA ENGINEERING GROUP, INC. CERTIFICATE No. EB2000

WILLIAM R. HOCKENSMITH PROFESSIONAL ENGINEER No. 35540 STATE OF FLORIDA

WILLIAM R. HOCKENSMITH, P.E. DATE: 10/31/2025

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY (ENGINEER), P.E. ON (DATE) USING A DIGITAL SIGNATURE.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

GENERAL NOTES:

1. THESE GENERAL NOTES APPLY TO ALL WORK IN THIS SET OF DRAWINGS.
2. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR(S) TO ENSURE THAT ALL REQUIRED PERMITS ARE OBTAINED AND ARE IN HAND AT THE JOB SITE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. CONTRACTOR SHALL ABIDE BY ALL CONDITIONS CONTAINED THEREIN.
3. THE SPECIFICATIONS, NOTES, AND PLANS CALL ATTENTION TO CERTAIN REQUIRED FEATURES OF THE CONSTRUCTION BUT DO NOT PURPORT TO COVER ALL DETAILS OF DESIGN AND CONSTRUCTION. HOWEVER, THE CONTRACTOR SHALL FURNISH & INSTALL THE WORK IN ALL DETAILS AND READY FOR OPERATION.
4. ALL EQUIPMENT SHALL BE HANDLED, STORED, INSTALLED, TESTED, AND OPERATED IN STRICT ACCORDANCE WITH THE APPLICABLE MANUFACTURER'S WRITTEN INSTRUCTIONS.
5. ALL WORK SHALL BE ACCOMPLISHED TO THE HIGHEST QUALITY CRAFTSMANSHIP STANDARDS AS APPROVED BY THE ENGINEER.
6. ALL WORK SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, ORDINANCES AND REGULATIONS.
7. APPARENT ERRORS, DISCREPANCIES, OR OMISSIONS ON THE DRAWINGS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION BEFORE BIDDING.
8. AFTER COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PERFORM SITE CLEAN–UP OPERATIONS FOR REMOVAL OF ALL TRASH, DEBRIS, EXCESS MATERIAL, AND EQUIPMENT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESENT THE PROJECT SITE CLEAN AND IN GOOD ORDER AT THE TIME OF FINAL ACCEPTANCE.
9. THE CONTRACTOR SHALL COMPLY WITH ALL RULES, REGULATIONS, AND SPECIFICATIONS OF CITY OF WINTER GARDEN FOR SITE IMPROVEMENT IN THE ABSENCE OF A PARTICULAR REQUIREMENT.
10. FLORIDA LAW (F.S. 553.851) PROTECTION OF UNDERGROUND PIPELINES MANDATES THAT "NO EXCAVATOR SHALL COMMENCE OR PERFORM ANY EXCAVATION IN ANY PUBLIC OR PRIVATE STREET, ALLEY, OR RIGHT–OF–WAY DEDICATED TO THE PUBLIC USE, OR GAS UTILITY EASEMENT WITHOUT FIRST OBTAINING INFORMATION CONCERNING THE POSSIBLE LOCATION OF GAS PIPELINES IN THE AREA OF THE PROPOSED EXCAVATION." THIS INCLUDES ANY OPERATION UTILIZING HAND TOOLS OR POWER TOOLS WHICH MOVES OR REMOVES ANY STRUCTURE, EARTH, ROCK, OR OTHER MASS OF MATERIAL BY SUCH METHODS AS DIGGING, BACKFILLING, DEMOLITION, GRADING, DITCHING, DRILLING, BORING, AND CABLE PLOWING. THE EXCAVATOR MUST NOTIFY THE GAS UTILITY A MINIMUM OF 48 HOURS AND A MAXIMUM OF 5 DAYS PRIOR TO EXCAVATING (EXCLUDING SATURDAYS, SUNDAYS, AND LEGAL HOLIDAYS).
11. CONTRACTOR SHALL NOTIFY ALL APPROPRIATE UTILITY COMPANIES OF PROPOSED START OF WORK IN ACCORDANCE WITH THEIR STANDARD REQUIREMENTS; INCLUDING BUT NOT LIMITED TO WATER, SEWER, POWER, TELEPHONE, GAS, AND CABLE TV COMPANIES.
12. ANY DIFFERING SITE CONDITIONS FROM THAT WHICH IS REPRESENTED HEREON, WHETHER ABOVE, ON, OR BELOW THE SURFACE OF THE GROUND, SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER AND OWNER IN WRITING. NO CLAIM FOR EXPENSES INCURRED BY THE CONTRACTOR DUE TO DIFFERING SITE CONDITIONS WILL BE ALLOWED IF CONTRACTOR FAILS TO PROVIDE THE REQUIRED WRITTEN NOTIFICATION OF SUCH CONDITIONS FOR REVIEW BY THE ENGINEER AND OWNER.
13. THE CONTRACTOR SHALL FURNISH OWNER WITH ACCURATE RECORD DRAWINGS PREPARED BY A LICENSED PROFESSIONAL SURVEYOR SHOWING AS–CONSTRUCTED HORIZONTAL AND VERTICAL DIMENSIONING OF THE WORK. THE SUBMITTAL COPY OF THE RECORD DRAWINGS WILL NOT BE RETURNED. THE RECORD DRAWING OR A REPRODUCIBLE COPY PREPARED BY THE ENGINEER SHALL BE CERTIFIED BY THE CONTRACTOR AS CORRECT. ALL INFORMATION WHICH IS UNCHANGED AND CURRENT SHALL BE NOTED BY CHECKING OFF OR CIRCLING. ALL REVISED INFORMATION SHALL BE CROSSED THROUGH AND NEW DATA ADDED. ADDITIONAL REQUIREMENTS ARE NOTED IN PAVING, GRADING, DRAINAGE, WATER, AND SEWER NOTES.
14. ALL PRIVATE AND PUBLIC PROPERTIES AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTED UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. THE COST FOR SUCH RESTORATION SHALL BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED.
15. THE CONTRACTOR SHALL FOLLOW THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS IN PREPARING THE SITE FOR CONSTRUCTION; THIS INCLUDES REMOVAL OF ANY EXISTING ORGANIC SOILS, DELETERIOUS MATERIAL, VEGETATION, AND/OR DEBRIS FROM WITHIN THE LIMITS OF CONSTRUCTION AS IDENTIFIED BY THE GEOTECHNICAL ENGINEER; PROOFROLLING OF THE NATURAL SOILS WHERE REQUIRED; AND OTHER GENERAL SITE PREPARATION REQUIREMENTS. SPECIFIC PROOFROLLING COMPACTION REQUIREMENTS SHOULD BE CONSISTENT WITH THE APPLICABLE DESIGN DOCUMENTS AND GEOTECHNICAL ENGINEER'S RECOMENDATIONS. IF THERE IS A CONFLICT BETWEEN THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS AND THE DESIGN DOCUMENTS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

GEOMETRY NOTES:

1. THESE PLANS ARE BASED ON A SURVEY PREPARED FOR THE OWNER BY ACCURIGHT SURVEYS OF ORLANDO AND DATED DECEMBER 5, 2007.
2. REFER TO SHEET C–2 FOR REFERENCED BENCHMARK.
3. CONTRACTOR SHALL STAKE ALL IMPROVEMENTS USING THE GEOMETRIC DATA PROVIDED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COMPLETELY STAKE & CHECK ALL IMPROVEMENTS TO ENSURE ADEQUATE POSITIONING, BOTH HORIZONTAL & VERTICAL, PRIOR TO THE INSTALLATION OF ANY IMPROVEMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY APPARENT DISCREPANCIES ARE FOUND.
4. ALL DIMENSIONS ARE TO THE FACE OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
5. CONTRACTOR SHALL VERIFY THE ACCURACY OF THE BUILDING GEOMETRY SHOWN WITH THAT IN THE FINAL ARCHITECTURAL DRAWINGS, PRIOR TO STAKE–OUT, & SHALL NOTIFY OWNER & ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

MARKING, STRIPING, & SIGNAGE NOTES:

1. ALL MARKINGS MUST COMPLY WITH THE F.D.O.T. ROADWAY & TRAFFIC DESIGN STANDARDS, MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AND THE CITY OF WINTER GARDEN LAND DEVELOPMENT CODE. PARKING SPACES MAY BE F.D.O.T. RATED PAINT. ALL OTHER MARKINGS MUST BE THERMOPLASTIC.
2. HANDICAP PARKING SPACES SHALL BE PROPERLY SIGNED AND STRIPED IN ACCORDANCE WITH FLORIDA STATUTE 316, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND OTHER APPLICABLE STANDARDS. REFER TO F.D.O.T. ROADWAY & TRAFFIC DESIGN STANDARDS INDEX 17355 FOR HANDICAP SYMBOL.
3. HANDICAP SIGN SHALL BE F.D.O.T. SPECIFICATION FTP 25.

PAVING, GRADING, & DRAINAGE NOTES:

1. ALL CONSTRUCTION, INCLUDING SIDEWALKS, SHALL BE IN ACCORDANCE WITH CITY OF WINTER GARDEN CONSTRUCTION SPECIFICATIONS AND OTHER GENERAL AND SPECIAL SPECIFICATIONS, AND THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, UNLESS STATED OTHERWISE IN THE SPECIFICATIONS OR ON THE PLANS.
2. SUBSURFACE INFORMATION PROVIDED WITH THESE DRAWINGS WAS OBTAINED FOR USE IN ESTABLISHING DESIGN CRITERIA FOR THE PROJECT. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED AND IS NOT TO BE CONSTRUED AS PART OF THE PLANS GOVERNING CONSTRUCTION OF THE PROJECT.
3. THE LOCATIONS OF EXISTING UTILITIES AND STORM DRAINAGE SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. ENGINEER ASSUMES NO RESPONSIBILITY FOR INACCURACY. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ARRANGEMENTS FOR FIELD LOCATIONS AND FOR ANY RELOCATIONS OF THE VARIOUS EXISTING UTILITIES WITH THE UTILITY OWNERS, WHICH SHALL BE DONE IN A TIMELY FASHION TO MINIMIZE IMPACT ON THE CONSTRUCTION SCHEDULE. ANY DELAY OR INCONVENIENCE CAUSED THE CONTRACTOR BY THE RELOCATION OF THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.
4. ALL FILL MATERIAL IN GENERAL IMPROVEMENT AREAS SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE SOIL'S MODIFIED PROCTOR MAXIMUM DRY DENSITY AS DETERMINED BY AASHTO T–180. SPECIFIC SITE PREPARATION METHODS, TYPE OF FILL TO BE USED FOR PARKING AND BUILDING AREAS, AND COMPACTION SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS (SEE GEOTECHNICAL REPORT PREPARED BY ARDAMAN & ASSOCIATES, INC.; PROJECT NO. 19–6369) REFER TO STRUCTURAL, ARCHITECTURAL, AND GEOTECHNICAL DOCUMENTS FOR ANY WORK RELATED TO BUILDINGS AND OTHER VERTICAL ELEMENTS FOR SPECIFIC SITE IMPROVEMENT AND FILL REQUIREMENTS. THIS PLAN ONLY COVERS SITE RELATED IMPROVEMENTS AND INFRASTRUCTURE. REFER TO PAVEMENT SECTION DETAILS FOR MATERIAL AND COMPACTION REQUIREMENTS OF PAVEMENT SUBGRADE.
5. ALL UNDERGROUND UTILITIES INCLUDING CONDUIT FOR ELECTRICAL, CABLE TV, AND TELEPHONE SHALL BE INSTALLED PRIOR TO PAVEMENT CONSTRUCTION.
6. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY PROBLEMS REQUIRING DEVIATION FROM THESE PLANS AND SPECIFICATIONS.
7. THE CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS OF ALL MAJOR ITEMS PROPOSED FOR THIS PROJECT TO THE ENGINEER PRIOR TO ORDERING ANY OF THE EQUIPMENT. UPON THE CONTRACTOR'S RECEIPT OF APPROVED SHOP DRAWINGS FROM THE ENGINEER, THE CONTRACTOR MAY PROCEED WITH THE WORK.
8. ALL DISTURBED AREAS MUST BE SODDED UNLESS OTHERWISE NOTED ON THE PLANS. ALL SODDING MUST BE DONE IN ACCORDANCE WITH SECTION 570 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, LATEST EDITION.
9. PROVIDE HANDICAP ACCESS WHERE SIDEWALKS MEET CURBS.

EROSION CONTROL NOTES:

1. ALL EROSION AND SEDIMENT CONTROL WORK SHALL CONFORM WITH CITY OF WINTER GARDEN SPECIFICATIONS, SUBJECT TO AUTHORIZED AND APPROVED VARIANCES, WAIVERS AND/OR CONDITIONAL CHANGES.
2. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CONSTRUCTION. SEDIMENT CONTROL PRACTICES WILL BE APPLIED AS A PERIMETER DEFENSE AGAINST ANY TRANSPORTATION OF SILT OFF THE SITE.
3. CONTRACTOR SHALL SUBMIT AN EROSION CONTROL PLAN AT THE PRE–CONSTRUCTION MEETING. THE CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICES IN CONTROLLING EROSION AND SEDIMENTATION DURING CONSTRUCTION.
4. ALL CLEARED AREAS FOR IMPROVEMENT AND/OR CONSTRUCTION SHALL BE WATERED TO PREVENT WIND EROSION.
5. PRIOR TO LAND CLEARING THE CONTRACTOR SHALL PROVIDE TREE PROTECTION BARRIERS TO MEET THE REQUIREMENTS OF CITY OF WINTER GARDEN.
6. THE CONTRACTOR SHALL SELECTIVELY CLEAR ONLY THE AREAS REQUIRED FOR CONSTRUCTION AND STABILIZE ANY POTENTIAL EROSION AREAS IMMEDIATELY FOLLOWING COMPLETION OF CONSTRUCTION.

WATER & SEWER UTILITY NOTES:

1. CONTRACTOR SHALL COORDINATE WITH CITY OF WINTER GARDEN FOR CONSTRUCTION OF THE WATER AND SEWER SYSTEMS, RESPECTIVELY. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THEIR SPECIFICATIONS AND REQUIREMENTS, AS APPLICABLE AND WILL BE SUBJECT TO THEIR INSPECTION AND ACCEPTANCE.
2. CONTRACTOR SHALL COORDINATE ALL WATER AND SEWER SYSTEM TEST SCHEDULING TO ALLOW ENGINEER'S ATTENDANCE AND PROVIDE FIVE (5) WORKING DAYS NOTICE OF WATER AND SEWER TESTS. CONTRACTOR'S FAILURE TO PROPERLY NOTIFY ENGINEER MAY RESULT IN RETESTING AT ENGINEER'S OPTION AND AT CONTRACTOR'S EXPENSE.
3. ENGINEER RESERVES THE RIGHT TO WITHHOLD APPROVAL FOR ANY PORTION OF THE WATER OR SEWER PIPE WORK WHICH HAS NOT BEEN TESTED (OBSERVED BY ENGINEER) AND REPORTED TO CONFORM TO PROJECT SPECIFICATIONS.
4. SITE CONTRACTOR SHALL COORDINATE AND VERIFY ALL UTILITY SERVICES WITH FINAL ARCHITECTURAL DRAWINGS AND BUILDING CONTRACTOR.
5. CONTRACTOR SHALL VERIFY SIZE AND TYPE OF EXISTING MAIN PRIOR TO ORDERING TAPPING MATERIALS FOR TIE–INS.
6. CONTRACTOR SHALL MAINTAIN A SET OF RECORD DRAWINGS MARKED UP WITH HORIZONTAL AND VERTICAL AS–BUILT INFORMATION ON LOCATION OF WATER MAINS, FITTINGS, AND WATER SERVICES LOCATED FROM CENTERLINE OF NEAREST FIRE HYDRANT OR NEAREST MANHOLE.
7. SITE UTILITY WORK SHALL TERMINATE 5 FEET FROM BUILDINGS UNLESS OTHERWISE STATED.
8. CONTRACTOR SHALL NOT ACTIVATE WATER SERVICE UNTIL THE FDEP HAS CLEARED THE SYSTEM FOR USE AND THE CLEARANCE LETTER HAS BEEN RECEIVED BY THE OWNER.

F.D.E.P. CONSTRUCTION NOTES:

UTILITY SEPARATION – VERTICAL CLEARANCE:

1. NEW OR RELOCATED, UNDERGROUND WATER MAINS THAT ARE INCLUDED IN THIS PROJECT AND THAT WILL CROSS ANY EXISTING OR PROPOSED GRAVITY –OR VACUUM– TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES ABOVE THE OTHER PIPELINE OR AT LEAST 12" BELOW THE OTHER PIPELINE; AND NEW OR RELOCATED, UNDERGROUND WATER MAINS THAT ARE INCLUDED IN THIS PROJECT AND THAT WILL CROSS ANY EXISTING OR PROPOSED PRESSURE–TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OTHER PIPELINE.
2. AT THE UTILITY CROSSINGS DESCRIBED ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE OR THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM–TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62–610, F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY– OR PRESSURE–TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62–610, F.A.C.

UTILITY SEPARATION HORIZONTAL SEPARATION:

1. NEW OR RELOCATED, UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM–TYPE SANITARY SEWER, STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III CHAPTER 62–610, F.A.C.; A HORIZONTAL DISTANCE OF AT LEAST SIX FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY–TYPE SANITARY SEWER (OR A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY–TYPE SANITARY SEWER IF THE BOTTOM OF THE WATER MAIN WILL BE LAID AT LEAST (6") %%USIX INCHES ABOVE THE TOP OF THE SEWER); A HORIZONTAL DISTANCE OF AT LEAST SIX FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED PRESSURE–TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62–610, F.A.C.; AND A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED "ON–SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM."
2. THE CONTRACTOR SHALL PERFORM HYDROSTATIC TESTING OF ALL NEWLY–INSTALLED WATER DISTRIBUTION SYSTEM IN ACCORDANCE WITH THE CITY OF WINTER GARDEN & IN ACCORDANCE WITH AWWA STANDARD C600 FOR DUCTILE–IRON PIPE. TESTING SHALL BE IN ACCORDANCE WITH AWWA MANUAL M23 FOR PVC PIPE.
3. THE CONTRACTOR SHALL DISINFECT ALL SECTIONS OF THE WATER DISTRIBUTION SYSTEM IN ACCORDANCE WITH THE F.D.E.P. WATER PERMIT, & RECEIVE APPROVAL THEREOF FROM THE LOCAL WATER UTILITY, ENGINEER OF RECORD, & F.D.E.P., PRIOR TO PLACING IN SERVICE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COPIES OF THE F.D.E.P. WATER & SEWER PERMITS FROM THE PERMITS FROM THE OWNER & MAINTAIN THEM ON THE JOB SITE AT ALL TIMES. DISINFECTION OF THE WATER DISTRIBUTION SYSTEM SHALL SYSTEM SHALL BE PERFORMED IN ACCORDANCE WITH AWWA 651 "DISINFECTING WATER MAINS". SHALL BE PERFORMED IN ACCORDANCE WITH AWWA 651 "DISINFECTING WATER MAINS".

CONSTRUCTION NOTES:

1. THE PERMITTEE SHALL BE SEPARATELY RESPONSIBLE FOR APPROPRIATE CONSTRUCTION, DISINFECTION & TESTING BEYOND THE METER TO ASSURE POTABILITY AT THE POINT OF USE.
2. POTABLE WATER PIPES WILL BE DISINFECTED IN ACCORDANCE WITH AWWA SPECIFICATIONS C651.
3. POTABLE PIPES WILL BE HYDROSTATICLY TESTED IN ACCORDANCE WITH SPECIFICATION NUMBERS C600 & C605/M23 FOR DUCTILE IRON & PVC PIPES, RESPECTIVELY.
   A. POTABLE WATER PIPES MUST BE MANUFACTURED IN ACCORDANCE WITH THE FOLLOWING AWWA SPECIFICATIONS:
   B. DUCTILE IRON PIPE (3" TO 64") – AWWA C150/AWWA C151; LINING PER AWWA C104, COATING PER AWWA C116, ENCASEMENT PER AWWA C105, FLANGED PIPE PER AWWA C115, GASKET JOINTS PER AWWA C111 AND FITTINGS PER AWWA C110 OR AWWA C153.
   C. PVC (WITH NATIONAL SANITATION FOUNDATION SEAL)
      1. AWWA C900/ASTM 1784 (4" TO 12") WITH DR25 MINIMUM;
      2. AWWA C905 (14" TO 48")
      3. PRESSURE RATED PIPE (SDR SERIES) SHALL BE ASTM D2241, SCHEDULE 40, 80, & 120 PVC PIPES PER ASTM D1785. THE COMPOUNDS USED FOR EITHER OF THESE TYPES SHALL BE PER ASTM D1784.
   D. POLYETHYLENE PIPE (1/2" – 3") – AWWA C901 WITH VALVES & FITTINGS (AWWA C800);
   E. POLYETHYLENE PIPE (4" – 63") – AWWA C906.
   F. FIRE HYDRANTS & VALVES PER AWWA SERIES C500 THROUGH C560.
   G. METERS PER AWWA SERIES C700 THROUGH C710.
   E. NON–AWWA PVC PIPES (ALLOWED ONLY FOR SIZES LESS THAN 4 INCHES) MUST HAVE A MINIMUM PRESSURE CLASS OF 200 PSI AND MUST BEAR THE NSF MARK ON EACH INSTALLED LENGTH.

CONNECTION TO EXISTING WATER MAINS:

1. IF CONNECTION OF THE PROPOSED ACTIVITY TO THE WATER MAIN WILL RESULT IN DEPRESSURIZATION OF THE EXISTING SYSTEM BELOW 20 POUNDS PER SQUARE INCH, ONE OF THE FOLLOWING MUST OCCUR:
   A. PRECAUTIONARY BOIL WATER NOTICES MUST BE ISSUED IN CASES OF PLANNED DISTRIBUTION INTERRUPTIONS, WHICH DEEMED AN IMMINENT PUBLIC HEALTH THREAT BY THE D.E.P. CENTRAL DISTRICT OR WILL AFFECT BACTERIOLOGICAL QUALITY OF THE DRINKING WATER UNLESS THE PUBLIC WATER SYSTEM CAN DEMONSTRATE, BY SOUND ENGINEERING JUDGMENT, THAT THE INTEGRITY OF THE WATER QUALITY ARE EXPECTED TO OCCUR & NOT DEEMED AN IMMINENT PUBLIC HEALTH RISK.
   B. IN CASES OF BRIEF INTERRUPTION IN SERVICE, ADVISORIES (NOT BOIL WATER NOTICES) SHOULD BE ISSUED IF TEMPORARY CHANGES IN WATER QUALITY ARE EXPECTED TO OCCUR & NOT DEEMED AN IMMINENT PUBLIC HEALTH RISK.

FILLING OF WATERMAINS:

1. FILLING OF PROPOSED WATER MAINS FROM EXISTING WATER MAINS WILL BE DONE IN ACCORDANCE WITH AWWA SPECIFICATIONS C651.

MATERIAL SPECIFICATIONS:

PAVING, GRADING, & DRAINAGE:

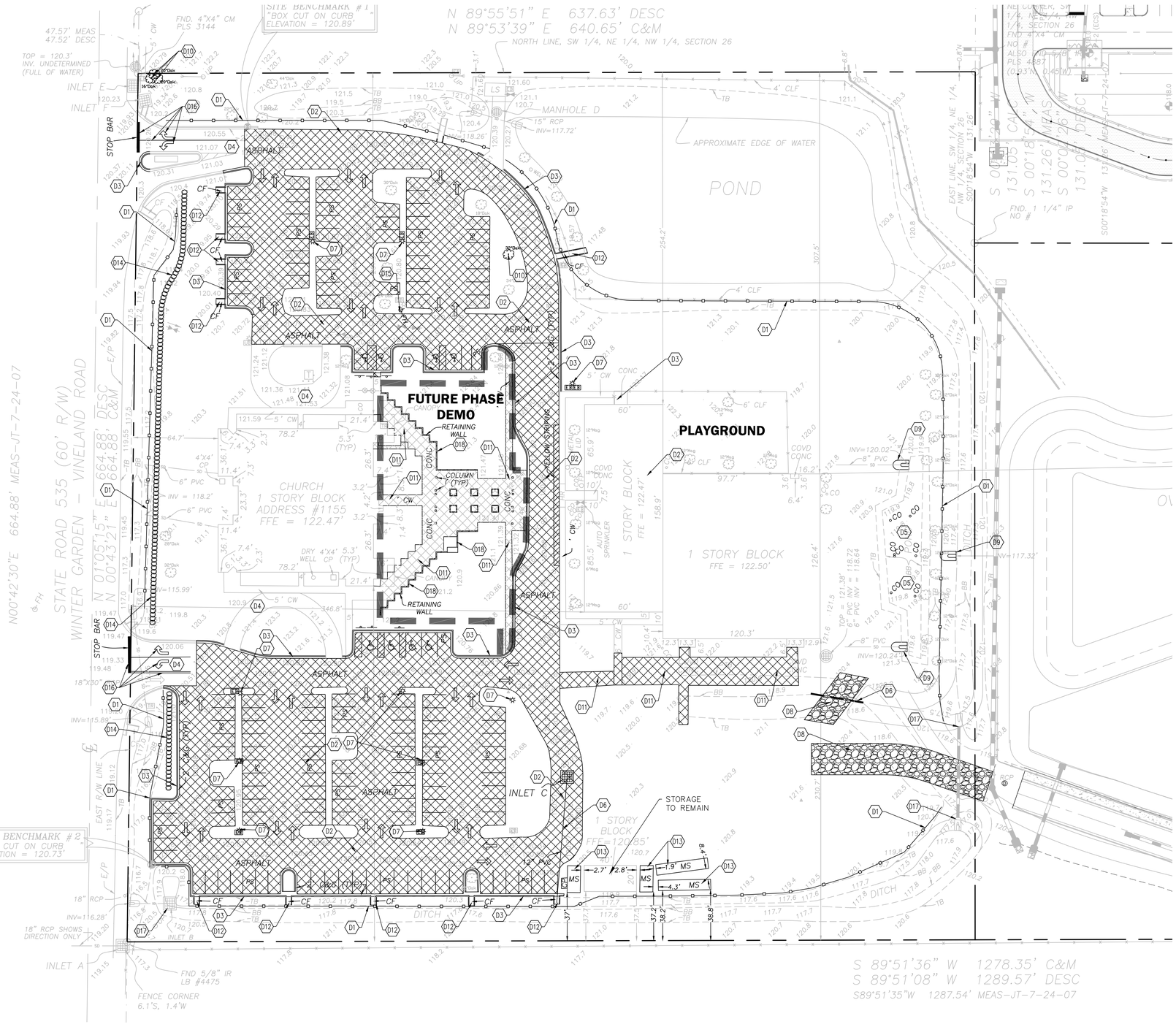
1. PAVING MATERIALS SHALL CONFORM WITH F.D.O.T. STANDARDS & SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, LATEST EDITION.
2. ALL STORM STRUCTURES SHALL CONFORM WITH F.D.O.T. STANDARD INDEX DRAWINGS & SPECIFICATIONS EXCEPT THAT DITCH BOTTOM INLETS IN PAVED AREAS SHALL HAVE TRAVERSABLE, TRAFFIC BEARING, GRATES SUPPORTED BY STEEL ANGLE SEATS OR SUPPORTED ON FOUR SIDES. GRATES SHALL BE CAST IRON UNLESS BICYCLE TRAFFIC IS ANTICIPATED.
3. ALL TYPE "P" STRUCTURE BOTTOMS SHALL BE ROUND UNLESS OTHERWISE SPECIFIED & SHALL HAVE 4 FEET MINIMUM DIAMETER.

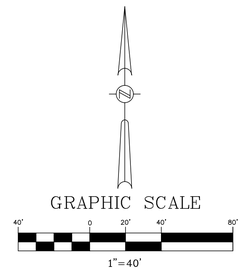
CITY OF WINTER GARDEN NOTES:

1. GENERAL REQUIREMENTS:
   A) ALL GRAVITY SANITARY PIPE AND FITTINGS SHALL BE SDR 26.
   B) ALL COMPACTION SHALL BE 98% OF THE MODIFIED PROCTOR MAXIMUM DENSITY (AASHTO T–180).
   C) AS–BUILT RECORD DRAWINGS SHALL COMPLY WITH CITY OF WINTER GARDEN REQUIREMENTS AVAILABLE ON–LINE.
   D) ALL STORM (>12") AND SANITARY LINES (>6") SHALL BE INSPECTED BY CCTV PRIOR TO COMPLETION.
2. ALL UTILITIES SHALL CONFORM TO CHAPTER 78 OF THE CITY CODE. IMPACT FEES WILL BE REQUIRED FOR ANY UTILITY CONNECTIONS AND SHALL BE PAID PRIOR TO ISSUANCE OF BUILDING PERMIT AND CITY EXECUTION OF FDEP PERMIT APPLICATIONS. THE SITE SHALL BE SERVED BY CITY WATER, SEWER AND REUSE. ALL UTILITIES REQUIRED FOR THE DEVELOPMENT SHALL BE RUN TO THE SITE AT THE DEVELOPER'S EXPENSE, INCLUDING POTABLE WATER, RECLAIMED WATER AND SANITARY SEWER. 100% OF ALL REQUIRED WATER, IRRIGATION AND SEWER IMPACT FEES SHALL BE PAID PRIOR TO CITY EXECUTION OF FDEP PERMITS AND ISSUANCE OF SITE OR BUILDING PERMITS.
3. SANITARY LINES FOR COMMERCIAL BUILDINGS SHALL BE 6" MINIMUM.
4. MINIMUM 5' WIDE CONCRETE SIDEWALKS SHALL BE CONSTRUCTED ALONG ALL STREET FRONTAGES PURSUANT TO CODE. ANY DAMAGED, BROKEN OR CRACKED SECTIONS (INCLUDING EXISTING CURBS AND PAVEMENT) SHALL BE REPLACED PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY.
5. THE USE OF HDPE PIPE SHALL MEET ALL CITY MATERIAL AND INSTALLATION REQUIREMENTS AS SPECIFIED IN THE CITY'S STANDARDS & SPECIFICATIONS INCLUDING CLASS I BEDDING, HP POLYPROPYLENE PIPE, LASER PROFILING, INSTALLATION PER ASTM D2321, ETC. (SEE UNDER ON–LINE FORMS ON WEBSITE).
6. LANDSCAPING SHALL NOT ENCROACH ON REQUIRED SIGHT LINES AT INTERSECTIONS OR DRIVEWAYS. DESIGN ENGINEER SHALL PROVIDE CERTIFICATION THAT SIGHT DISTANCE REQUIREMENTS ARE BEING MET. ALL IRRIGATION ON THE SITE SHALL BE DESIGNED TO BE SUPPLIED BY RECLAIMED WATER WHEN AVAILABLE AND SHALL BE SERVED BY A JUMPER TO POTABLE WATER UNTIL THAT TIME.
7. A SEPARATE TREE REMOVAL PERMIT IS REQUIRED TO REMOVE ANY TREES. COORDINATE WITH BUILDING DEPARTMENT (STEVE PASH).
8. NO TREES MAY BE PLANTED OVER OR WITHIN 5 FEET OF ANY UTILITY LINES. ONLY SOD OR SHRUBS MAY BE PLANTED OVER UTILITY LINES.
9. STREETLIGHTING, BOTH INTERNALLY AND ON ALL STREET FRONTAGES, IS REQUIRED PURSUANT TO CITY CODE – DARK SKIES LIGHTING IS REQUIRED. PROVIDE A PHOTOMETRIC PLAN TO BE SUBMITTED FOR REVIEW BY THE PLANNING DEPARTMENT.
10. ALL ON–SITE UTILITIES SHALL BE PRIVATELY OWNED AND MAINTAINED.
11. FIRE SPRINKLER SYSTEMS WILL BE REQUIRED ON ALL BUILDINGS OVER 6,000 S.F. WITH POINT OF SERVICE (POS), BACKFLOW PREVENTION, ETC. ALL WORK DOWNSTREAM OF THE POS SHALL BE PERFORMED BY A LICENSED FIRE SPRINKLER CONTRACTOR.
12. ANY SCREEN WALLS OR RETAINING WALLS SHALL REQUIRE A SEPARATE PERMIT FROM THE BUILDING DEPARTMENT.
13. ALL UNDERDRAIN PIPE SHALL BE DOUBLE WALL HDPE PIPE OR PVC PIPE.
14. THE OWNER IS RESPONSIBLE FOR MEETING ALL PROVISIONS OF ADA AND FLORIDA ACCESSIBILITY CODE.
15. ALL WORK SHALL CONFORM TO CITY OF WINTER GARDEN STANDARDS AND SPECIFICATIONS.
16. THE CITY OF WINTER GARDEN WILL INSPECT PRIVATE SITE IMPROVEMENTS ONLY TO THE EXTENT THAT THEY CONNECT TO CITY OWNED/MAINTAINED SYSTEMS (ROADWAYS, DRAINAGE, UTILITIES, ETC.). IT IS THE RESPONSIBILITY OF THE OWNER AND DESIGN ENGINEER TO ENSURE THAT PRIVATELY OWNED AND MAINTAINED SYSTEMS ARE CONSTRUCTED TO THE INTENDED SPECIFICATIONS. THE CITY IS NOT RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF PRIVATELY OWNED SYSTEMS, TO INCLUDE, BUT NOT BE LIMITED TO, ROADWAYS, PARKING LOTS, DRAINAGE, STORMWATER PONDS OR ON–SITE UTILITIES.
17. THE CONTRACTOR IS RESPONSIBLE FOR THE NOTIFICATION, LOCATION AND PROTECTION OF ALL UTILITIES THAT MAY EXIST WITHIN THE PROJECT LIMITS.
18. NO FILL OR RUNOFF WILL BE ALLOWED TO DISCHARGE ONTO ADJACENT PROPERTIES; EXISTING DRAINAGE PATTERNS SHALL NOT BE ALTERED. THE APPLICANT SHOULD NOTE THAT IF APPROVAL IS GRANTED, THE CITY OF WINTER GARDEN IS NOT GRANTING RIGHTS OR EASEMENTS FOR DRAINAGE FROM, OR ONTO, PROPERTY OWNED BY OTHERS. OBTAINING PERMISSION, EASEMENTS OR OTHER APPROVALS THAT MAY BE REQUIRED TO DRAIN ONTO PRIVATE PROPERTY IS THE OWNER/DEVELOPER'S RESPONSIBILITY. SHOULD THE FLOW OF STORMWATER RUNOFF FROM, OR ONTO ADJACENT PROPERTIES BE UNREASONABLE OR CAUSE PROBLEMS, THE CITY WILL NOT BE RESPONSIBLE AND ANY CORRECTIVE MEASURES REQUIRED WILL BE THE RESPONSIBILITY OF THE OWNER. SITE CONSTRUCTION SHALL ADHERE TO THE CITY OF WINTER GARDEN EROSION AND SEDIMENT CONTROL REQUIREMENTS AS CONTAINED IN CHAPTER 106 – STORMWATER. IF APPROVAL IS GRANTED BY THE CITY OF WINTER GARDEN, IT DOES NOT WAIVE ANY PERMITS THAT MAY BE REQUIRED BY FEDERAL, STATE, REGIONAL, COUNTY, MUNICIPAL OR OTHER AGENCIES THAT MAY HAVE JURISDICTION.
19. AFTER FINAL PLAN APPROVAL, A PRECONSTRUCTION MEETING WILL BE REQUIRED PRIOR TO ANY COMMENCEMENT OF CONSTRUCTION. THE APPLICANT SHALL PROVIDE AN EROSION CONTROL AND STREET LIGHTING PLAN AT THE PRECONSTRUCTION MEETING AND SHALL PAY ALL ENGINEERING REVIEW AND INSPECTION FEES PRIOR TO CONSTRUCTION. INSPECTION FEES IN THE AMOUNT OF 2.25% OF THE COST OF ALL SITE IMPROVEMENTS SHALL BE PAID PRIOR TO ISSUANCE OF THE SITE OR BUILDING PERMIT (LESS WHAT HAS ALREADY BEEN PAID).

CITY OF WINTER GARDEN REQUIREMENTS:

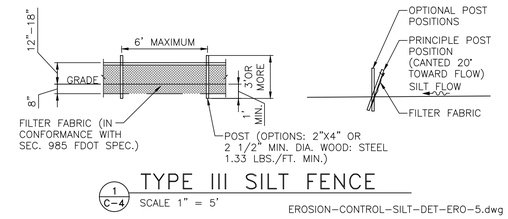
1. AS BUILT RECORD DRAWINGS SHALL COMPLY WITH THE CITY OF WINTER GARDEN REQUIREMENTS. SEE SHEET C–12
2. ALL STORM PIPES (12" AND GREATER) AND NEW SANITARY (6" AND GREATER) SHALL BE INSPECTED BY CCTV PRIOR TO COMPLETION.
3. ALL SCREEN WALLS SHALL REQUIRE A SEPARATE PERMIT FROM THE BUILDING DEPARTMENT.
4. ALL WORK SHALL CONFORM TO CITY OF WINTER GARDEN STANDARDS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION, LOCATION AND PROTECTION OF ALL UTILITIES THAT MAY EXIST WITHIN THE PROJECT LIMITS.
6. ALL DIS





DEMOLITION KEYNOTES

D1. F.D.O.T. TYPE "III" SILT FENCE EROSION CONTROL BARRIER PER DETAIL ON THIS SHEET, TYPICAL.
D2. REMOVE PAVEMENT AND BASE WITHIN HATCHED AREA. STOCKPILE BASE FOR REUSE
D3. REMOVE CURBING
D4. PAVEMENT TO REMAIN
D5. REMOVE UNDER DRAIN SYSTEM
D6. REMOVE PIPE/MES
D7. REMOVE LIGHT POLE
D8. REMOVE TEMPORARY GRAVEL DRIVEWAY. STOCKPILE FOR REUSE
D9. REMOVE MES
D10. REMOVE TREE
D11. REMOVE CONCRETE PAVEMENT/PAVERS WITHIN HATCHED AREA
D12. REMOVE CONCRETE FLUME
D13. REMOVE METAL SHED
D14. REMOVE HEDGES
D15. FIRE HYDRANT TO BE RELOCATED TO NEW LANDSCAPE ISLAND
D16. REMOVE EXISTING STOP BAR, STRIPING AND DIRECTIONAL ARROWS
D17. PIPE/STRUCTURE TO REMAIN.
D18. REMOVE EXISTING RETAINING WALL



1 / C-4 TYPE III SILT FENCE
SCALE 1" = 5'
EROSION-CONTROL-SILT-DET-ERO-5.dwg

PLAN LEGEND

SILT FENCE EROSION CONTROL BARRIER

VERTICAL DATUM: NGVD 29

Sunshine State 811 One Call

DATE	REVISIONS	BY	CHECKED
1/13/2026	3 PER CITY COMMENTS RECEIVED 1/12/2026	WRH	WRH
10/31/2025	2 PER CITY COMMENTS DATED 6/12/2025	WRH	WRH
10/31/2025	1 PER SJRWMD COMMENTS DATED 5/21/2025	WRH	WRH

CONSTRUCTION PLANS
RESSURECTION CATHOLIC CHURCH
1211 WINTER GARDEN VINELAND ROAD
WINTER GARDEN, FLORIDA

FEG FLORIDA ENGINEERING GROUP
now part of THOMAS & HUTTON

5127 S. Orange Avenue, Suite 200
Orlando, FL 32809
Phone: 407-895-0324
Fax: 407-895-0325

www.thomasandhutton.com

SITE DEMOLITION & STORMWATER POLLUTION PREVENTION PLAN

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
WRH	CRR	WRH	WRH

PROJECT NO. 23-110
SCALE 1"=40'
DATE MARCH 31, 2025
SHEET NO. C-4
SHEET 4 OF 14

FLORIDA ENGINEERING GROUP, INC.
CERTIFICATE No. EB0000691
WILLIAM R. HOCKENSMITH
No. 35540
STATE OF FLORIDA
PROFESSIONAL ENGINEER
WILLIAM R. HOCKENSMITH, P.E.
DIGITALLY SIGNED

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY (ENGINEER), P.E. ON (DATE) USING A DIGITAL SIGNATURE.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

23-110_Demo.dwg

EROSION CONTROL SITE DESCRIPTION NOTES:

1. THE PROPOSED CONSTRUCTION ACTIVITY WILL ENTAIL CLEARING AND GRUBBING ACTIVITIES OF A 9.84± ACRE SITE LOCATED AT 1211 WINTER GARDEN VINELAND ROAD, TO RENOVATE A CATHOLIC CHURCH, IT'S ASSOCIATED PARKING, DRAINAGE & UTILITIES.

2. THE SEQUENCE OF SOILS DISTURBANCE ACTIVITY IS AS FOLLOWS:

   A. INSTALL SILT FENCE AS SHOWN ON THE PLANS & PROVIDE TREE PROTECTION ON SITE, IF APPLICABLE.

   B. CLEAR & GRUB THE AREA TO BE DISTURBED.

   C. PLACE FILL ON-SITE TO BRING THE SITE UP TO THE PROPOSED GRADES.

   D. BEGIN COMPACTION / STABILIZATION PROCESS.

3. THE TOTAL SITE AREA IS 9.84± ACRES AND THE AREA TO BE DISTURBED IS APPROXIMATELY 7.08± ACRES.

4. THE EXISTING SOIL IS WABASSO URBAN LAND COMPLEX. THE QUALITY OF THE STORMWATER DISCHARGE IS CONSISTENT WITH THE RUNOFF GENERATED BY THE COMMERCIAL SITE.

5. THE TOTAL DRAINAGE AREA FOR THE PROJECT IS APPROXIMATELY 9.84± ACRE.

6. THE LATITUDE & LONGITUDE FOR THE DISCHARGE POINTS IS LAT: N 28° 32' 51" LONG: W 81° 35' 15", AS THE OVERFLOW POINT FOR THE EXISTING ONSITE STORMWATER SYSTEM.

7. WASTE DISPOSAL SHALL BE IMPLEMENTED IN ACCORDANCE WITH LOCAL, STATE & FEDERAL REGULATIONS. ALL TRUCKS EXITING THE SITE WILL BE HOSED, ITS LOAD COVERED AND THE COVER PROPERLY SECURED. THE STORAGE, APPLICATION, GENERATION & MIGRATION OF ALL FERTILIZERS, HERBICIDES, PESTICIDES & TOXIC MATERIAL SHALL BE IN ACCORDANCE W/ LOCAL, STATE & FEDERAL REGULATIONS.

8. CONTRACTOR SHALL IDENTIFY THE INDIVIDUAL(S) RESPONSIBLE FOR THE WEEKLY & REQUIRED INSPECTIONS. A REPORTING SYSTEM ENTAILING THE ITEMS TO BE INSPECTED & THEIR CONDITION SHOULD BE DOCUMENTED & PLACED IN A DEDICATED FILING SYSTEM THAT WILL REMAIN ON THE PROJECT SITE, ACCESSIBLE TO THE CONSTRUCTION TEAM & TO THE F.D.E.P. INSPECTORS.

9. INSPECTIONS: CONSTRUCTION SITE WILL BE INSPECTED FOR EROSION PROBLEMS DAILY AND AFTER AFTER EACH RAINFALL GREATER THAN 0.5 INCH. A RAIN GAUGE WILL BE ON SITE TO MEASURE THE RAINFALL AMOUNT.

EROSION CONTROL NOTES:

1. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, & LOCAL CODES, ORDINANCES, & REGULATIONS GOVERNING POLLUTION OF THE ENVIRONMENT & SHALL IMPLEMENT ALL MEASURES NEEDED TO ENSURE ADEQUATE EROSION & SEDIMENT CONTROL DURING THE ENTIRE DURATION OF CONSTRUCTION. EROSION & SEDIMENT CONTROL MEASURES SHALL CONFORM TO ORANGE COUNTY, SOUTH FLORIDA WATER MANAGEMENT DISTRICT, FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, & FLORIDA DEPARTMENT OF TRANSPORTATION REQUIREMENTS. INSTALLATION OF SILT FENCES & TURBIDITY BARRIERS SHALL BE IN ACCORDANCE WITH F.D.O.T. ROADWAY & TRAFFIC DESIGN STANDARDS & STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, LATEST EDITION. EROSION & SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CONSTRUCTION.

2. EROSION & SEDIMENT CONTROL MEASURES ARE TO BE APPLIED AS A PERIMETER DEFENSE AGAINST THE TRANSPORTATION OF SILT & SEDIMENTS OFF THE PROJECT SITE OR INTO ADJACENT WATER BODIES OR WETLANDS. THE CONTRACTOR SHALL PREPARE & IMPLEMENT AN EROSION CONTROL PLAN AS PART OF THE SCOPE OF WORK COVERED BY THESE PLANS. THE CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICES IN CONTROLLING EROSION & SEDIMENT TRANSPORT DURING CONSTRUCTION. THE FLORIDA DEVELOPMENT MANUAL "A GUIDE TO SOUND LAND & WATER MANAGEMENT" MAY BE USED AS REFERENCE FOR RECOMMENDED BEST MANAGEMENT PRACTICES RELATED TO EROSION & SEDIMENT CONTROL.

3. THE CONTRACTOR SHALL SUBMIT THE EROSION CONTROL PLAN TO THE OWNER FOR APPROVAL PRIOR TO THE PRE-CONSTRUCTION MEETING.

4. ALL EROSION & SEDIMENT CONTROL MEASURES WHICH ARE NECESSARY TO LIMIT THE TRANSPORT OF SILTS & SEDIMENTS TO OUTSIDE THE LIMITS OF THE WORK AREA OR TO WATER BODIES OR WETLANDS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

5. THE CONTRACTOR SHALL PROVIDE BEST MANAGEMENT PRACTICES & IMPLEMENT STRUCTURAL MEASURES AS NEEDED TO PREVENT EROSION & SEDIMENT TRANSPORT FROM THE WORK AREAS. THE FOLLOWING ARE MINIMUM RECOMMENDED GUIDELINES TO BE IMPLEMENTED DURING CONSTRUCTION AS PART OF THE EROSION & SEDIMENT CONTROL PLAN:

   A. STOCKPILING OF MATERIAL
   NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE OR INTO ANY ADJACENT WATER BODY OR STORMWATER COLLECTION FACILITY.

   B. EXPOSED AREA LIMITATION & PROTECTION
   THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING & GRUBBING OPERATIONS OR EXCAVATION & FILLING OPERATIONS SHALL BE LIMITED AS NEEDED TO MINIMIZE THE POTENTIAL OF OFF-SITE SEDIMENT TRANSPORT. ALL EXPOSED AREAS SHALL BE PROTECTED BY INSTALLING EFFECTIVE EROSION & SEDIMENT CONTROL MEASURES SUCH AS SILT SCREENS, SYNTHETIC BALES, TURBIDITY BARRIERS, SWALES, OR A COMBINATION OF THESE & OTHER MEASURES AS WARRANTED.

   C. INLET PROTECTION
   INLETS & CATCH BASINS SHALL BE PROTECTED DURING CONSTRUCTION FROM SEDIMENT LADEN STORMWATER RUNOFF BY PROVIDING A COMBINATION OF SILT SCREENS, SYNTHETIC BALES, FILTER FABRIC COVERS OR OTHER MEASURES AS NECESSARY TO CONTROL THE TRANSPORT OF SEDIMENT.

   D. TEMPORARY GRASSING
   AREAS OPENED BY CONSTRUCTION OPERATIONS THAT ARE NOT ANTICIPATED TO BE DRESSED OR RECEIVE FINAL GRASSING TREATMENT WITHIN THIRTY DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED. TEMPORARY SEEDING SHALL BE CONTROLLED AS TO NOT ALTER OR COMPETE WITH PERMANENT GRASSING. SLOPES STEEPER THAN 6:1 SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES OF LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA TO A DEPTH OF 4 INCHES. THE SEEDED OR SEEDED & MULCHED AREAS SHALL BE ROLLED & WATERED AS NEEDED TO ENSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER. IF AFTER 14 DAYS, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75% OF GOOD GRASS COVER, THE AREAS WILL BE REWORKED & ADDITIONAL SEED APPLIED TO ESTABLISH THE DESIRED VEGETATION COVER. REWORKED & ADDITIONAL SEED APPLIED.

   E. MAINTENANCE
   EROSION & SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED DURING THE ENTIRE DURATION OF CONSTRUCTION. THE CONTRACTOR SHALL INSPECT THE EROSION & CONTROL MEASURES ON A WEEKLY BASIS & 24 HOURS FOLLOWING RAINFALL EVENTS (0.5" OR GREATER) & IMMEDIATELY REPAIR ANY OBSERVED DAMAGED CONTROLS. ALL EROSION & SEDIMENT CONTROLS SHALL BE MAINTAINED AS TO FUNCTION PROPERLY WITHOUT THE TRANSPORT OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT.

6. APPROXIMATE SLOPES AFTER MAJOR GRADING VARIES BETWEEN 1% TO 1.5%.

7. AREAS OF SOILS DISTURBANCE IS LIMITED TO THE AREA WITHIN THE SILT FENCE LIMITS AS SHOWN ON THIS PLAN.

8. ALL PERVIOUS AREAS WILL BE SODDED, UNLESS OTHERWISE NOTED.

9. NO WETLANDS & SURFACE WATERS EXIST ON THIS PROJECT.

CITY OF WINTER GARDEN REQUIREMENTS:

1. ANY DAMAGED, BROKEN OR CRACKED CURBS SHALL BE REPLACED PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY.

2. A SEPARATE TREE REMOVE PERMIT IS REQUIRED.

3. SITE CONSTRUCTION SHALL ADHERE TO THE CITY OF WINTER GARDEN EROSION AND SEDIMENT CONTROL REQUIREMENTS AS CONTAINED IN CHAPTER 106 (STORMWATER)

DEMOLITION NOTES

1. THE LOCATIONS, ELEVATIONS, & DIMENSIONS OF EXISTING UTILITIES & OTHER FEATURES ARE SHOWN ON THE PLANS ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS, & DIMENSIONS OF ALL EXISTING UTILITIES & OTHER FEATURES AFFECTING THE WORK PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY FEG OF ANY DISCREPANCIES WHICH MAY AFFECT THE PROPOSED WORK.

2. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES BEFORE EXCAVATION.

3. THE CONTRACTOR SHALL, PRIOR TO INITIATION OF ANY SITE CLEARING OR OTHER CONSTRUCTION ACTIVITIES, INSTALL SILT SCREENS DOWNSTREAM OF ALL AREAS WHICH HAVE POTENTIAL OF EROSION OR SEDIMENT TRANSPORT OFFSITE OR TO WATER BODIES. THE CONTRACTOR SHALL IMPLEMENT OTHER STRUCTURAL EROSION CONTROL MEASURES IF REQUIRED TO PREVENT SEDIMENT TRANSPORT TO OFF-SITE AREAS & WATER BODIES.

4. ALL TRASH, DEBRIS, & OTHER MATERIAL REMOVED FROM THE SITE SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH ALL LOCAL, STATE, & FEDERAL REGULATIONS.

5. ANY EXCAVATED TRENCHES ARE TO BE BACKFILLED WITH CLEAN SAND COMPACTED TO AT LEAST 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY VALUE (AASHTO T-180). REFER TO GEOTECHNICAL REPORT FOR SPECIFIC COMPACTION REQUIREMENTS UNDER BUILDING & OTHER STRUCTURES.

6. ALL EXISTING CONCRETE TO BE REMOVED SHALL BE SAWCUT & REMOVED @ THE FIRST AVAILABLE GOOD JOINT & REPLACED TO MATCH EXISTING.

7. THE CONTRACTOR SHALL CONTACT THE GAS UTILITY FOR LOCATION BEFORE EXCAVATION. CHAPTER 17-153 F.S. REQUIRES THAT AN EXCAVATOR NOTIFIES ALL GAS UTILITIES AT LEAST TWO DAYS PRIOR TO EXCAVATING. ALSO CALL 1-800-432-4770 FOR SUNSHINE LOCATES. F.S. 556.101 THROUGH 111.

8. CONTRACTOR TO PROVIDE TREE PROTECTION AS REQUIRED BY THE LOCAL JURISDICTION.

SOIL TRACKING PREVENTION

1. A SOIL TRACKING PREVENTION DEVICE (STPD) SHALL BE CONSTRUCTED AT THE LOCATION SHOWN ON THE PLANS. TRAFFIC FROM UNSTABILIZED AREAS OF CONSTRUCTION SHALL BE DIRECTED THRU THE STPD BARRIER. FLAGGING OR OTHER POSITIVE MEANS SHALL BE USED AS REQUIRED TO LIMIT & DIRECT VEHICULAR EGRESS ACROSS THE STPD.

2. THE CONTRACTOR MAY PROPOSE AN ALTERNATIVE TECHNIQUE TO MINIMIZE OFFSITE TRACKING OF SEDIMENT. THE ALTERNATIVE MUST BE REVIEWED & APPROVED BY THE ENGINEER &/OR ORANGE COUNTY PRIOR TO IT'S USE.

3. ALL MATERIALS SPILLED, DROPPED, OR TRACKED ONTO PUBLIC ROADS (INCLUDING THE STPD AGGREGATE & CONSTRUCTION MUD) SHALL BE REMOVED DAILY, OR MORE FREQUENTLY IF SO DIRECTED BY THE ENGINEER &/OR ORANGE COUNTY.

4. AGGREGATES SHALL BE AS DESCRIBED IN SECTION 901 EXCLUDING 901-2.3. AGGREGATES SHALL BE FDOT SIZE #1. IF THIS SIZE IS NOT AVAILABLE, THE NEXT AVAILABLE SMALLER SIZE AGGREGATE MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER. SIZES CONTAINING EXCESSIVE SMALL AGGREGATE WILL TRACK OFF THE PROJECT & ARE UNSUITABLE.

5. THE STPD SHALL BE MAINTAINED IN A CONDITION THAT WILL ALLOW IT TO PERFORM ITS FUNCTION. TO PREVENT OFFSITE TRACKING, THE STPD SHALL BE RINSED (DAILY WHEN IN USE) TO MOVE ACCUMULATED MUD DOWNWARD THRU THE STONE. ADDITIONAL STABILIZATION OF THE VEHICULAR ROUTE LEADING TO THE STPD MAY BE REQUIRED TO LIMIT THE MUD TRACKED.

EROSION CONTROLS FOR NON STORMWATER DISCHARGES:

A) WASTE DISPOSAL:

WASTE MATERIAL:

ALL WASTE MATERIAL WILL BE COLLECTED AND STORED IN A METAL DUMPSTER WHICH WILL BE MAINTAINED BY A LICENSED SOLID WASTE MANAGEMENT COMPANY IN ORANGE COUNTY. THE DUMPSTER WILL MEET ALL LOCAL, STATE AND FEDERAL REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED AS OFTEN AS NECESSARY TO NOT CAUSE ON-SITE DISPOSAL OF WASTE. THE TRASH WILL BE HAULED TO AN APPROVED ORANGE COUNTY LANDFILL. NO CONSTRUCTION WASTE WILL BE BURIED ONSITE. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE SUPERINTENDENT CONSTRUCTION TRAILER. THE INDIVIDUAL RESPONSIBLE FOR MANAGING THIS TASK WILL BE IDENTIFIED BY THE CONTRACTOR.

HAZARDOUS WASTE:

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN ACCORDANCE WITH THE APPLICABLE LOCAL, STATE & FEDERAL REGULATIONS. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR HAZARDOUS WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE SUPERINTENDENT CONSTRUCTION TRAILER. THE INDIVIDUAL RESPONSIBLE FOR MANAGING THIS TASK WILL BE IDENTIFIED BY THE CONTRACTOR.

SANITARY WASTE:

ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF THREE TIMES PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR AS REQUIRED BY LOCAL REGULATION.

B) OFFSITE VEHICLE TRACKING:

A GRAVEL CONSTRUCTION ENTRANCE HAS BEEN PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEPT DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPAULIN.

DUST CONTROL:

1. **THE CONTRACTOR SHALL CONTROL DUST BY WATERING DOWN THE SITE AS REQUIRED. POTABLE WATER EXISTS AT THE SITE.**

Sunshine State One Call 811

DATE	REVISIONS	BY	CHECKED
1/13/2026	3 PER CITY COMMENTS RECEIVED 1/12/2026	WRH	WRH
10/31/2025	2 PER CITY COMMENTS DATED 6/12/2025	WRH	WRH
10/31/2025	1 PER SJRWMD COMMENTS DATED 5/21/2025	WRH	WRH

CONSTRUCTION PLANS
RESSURECTION CATHOLIC CHURCH
1211 WINTER GARDEN VINELAND ROAD
WINTER GARDEN, FLORIDA

FEG FLORIDA ENGINEERING GROUP
now part of
THOMAS & HUTTON

5127 S. Orange Avenue, Suite 200
Orlando, FL 32809
Phone: 407-895-0324
Fax: 407-895-0325

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SITE DEMOLITION & STORMWATER POLLUTION PREVENTION PLAN

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
WRH	CRR	WRH	WRH

PROJECT NO. 23-110
SCALE 1' = 30'
DATE MARCH 31, 2025
SHEET NO. C-5
SHEET 5 OF 14

FLORIDA ENGINEERING GROUP, INC.
CERTIFICATE No. EB2000
WILLIAM R. HOCKENSMITH
No. 35540
STATE OF FLORIDA
PROFESSIONAL ENGINEER
WILLIAM R. HOCKENSMITH, P.E.
DIGITALLY SIGNED

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY (ENGINEER), P.E. ON (DATE) USING A DIGITAL SIGNATURE.

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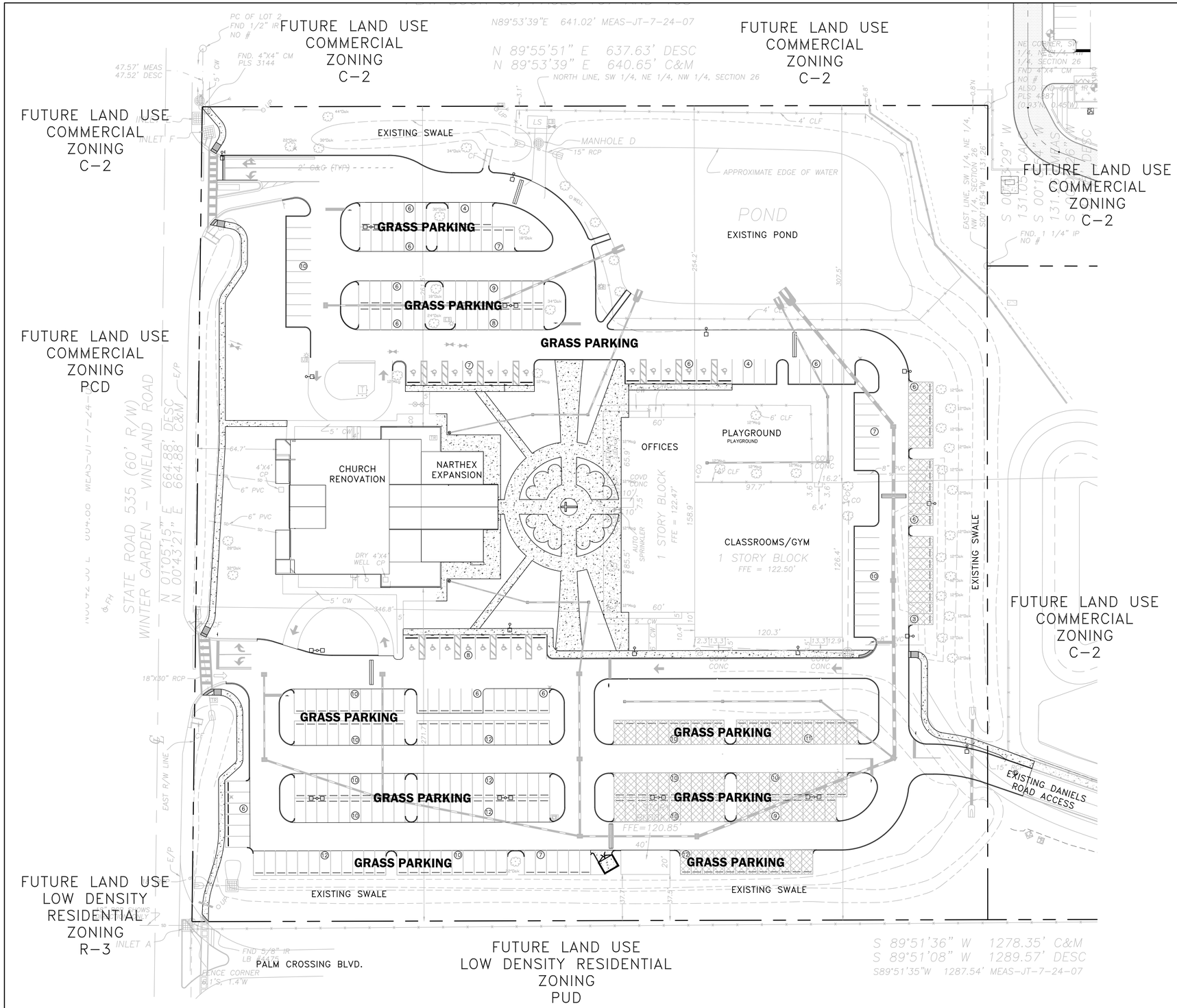
23-110_Demo.dwg



SITE DATA

PROPERTY LOCATION:	1211 WINTER GARDEN VINELAND ROAD WINTER GARDEN, FL 34787
PROPERTY FUTURE LAND USE DESIGNATION:	COM
PROPERTY ZONING:	C-2
EXISTING USE:	CHURCH
PROPOSED USE:	CHURCH
PROJECT AREA:	9.84 ACRES
EXISTING BUILDINGS:	39,040 S.F.
PROPOSED EXPANSION:	4,470 S.F.
PROPOSED BUILDING FLOOR AREA:	43,510 S.F.
ALLOWABLE FLOOR AREA:	0.35
PROPOSED FLOOR AREA:	0.10

BUILDING SETBACKS (REQUIRED)		BUILDING SETBACKS (PROPOSED)	
FRONT (WEST)	40'	FRONT (WEST)	64'
SIDE (NORTH)	0'	SIDE (NORTH)	254'
SIDE (SOUTH)	0'	SIDE (SOUTH)	230'
REAR (EAST)	0'	REAR (EAST)	118.48'

2

PARKING

EXISTING CHURCH	630 SEATS
PROPOSED CHURCH	800 SEATS

PARKING

PARKING REQUIRED

CHURCH	800 SEATS x (1 SPACE PER 3 SEATS)	267 SPACES
TOTAL PARKING REQUIRED		267 SPACES
SPACES REQUIRED TO BE RESERVED FOR HANDICAP		7 SPACES

PARKING PROVIDED

GRASS PARKING SPACES	261 SPACES
STANDARD PARKING SPACES	43 SPACES
HANDICAP PARKING	21 SPACES
TOTAL PARKING PROVIDED	325 SPACES

SITE AREA CALCULATIONS

	EXISTING	PHASE 1	FUTURE	
CHURCH	13,666 S.F.	13,666 S.F.	18,136 S.F.	
OFFICE/SCHOOL	24,574 S.F.	24,574 S.F.	24,574 S.F.	
MAINTENANCE BUILDING	800 S.F.	800 S.F.	800 S.F.	
STORAGE SHEDS	1,057 S.F.	0 S.F.	0 S.F.	
SIDEWALK/COURTYARD	10,869 S.F.	19,302 S.F.	27,896 S.F.	
PAVERS	3,156 S.F.	0 S.F.	0 S.F.	
PAVEMENT	101,410 S.F.	101,972 S.F.	101,972 S.F.	
IMPERVIOUS AREA	155,532 S.F.	160,044 S.F.	173,378 S.F.	3.98 AC.
WET POND AT WATER ELEVATION	29,421 S.F.	29,421 S.F.	29,421 S.F.	0.68 AC.
PERVIOUS AREA	243,650 S.F.	239,138 S.F.	225,804 S.F.	5.18 AC.
TOTAL SITE AREA	428,603 S.F.	428,603 S.F.	428,603 S.F.	9.84 AC.

MAXIMUM IMPERVIOUS COVER ALLOWED (2007 SJRWMD PERMIT) 4.13 AC
IMPERVIOUS COVER PROPOSED 4.0 AC

FLOOD ZONE

FLOOD ZONE A & X PER FEMA F.I.R.M. PANEL 12095C0215H DATED: 9/24/2021.

SITE NOTES

1. ALL CURB RADII ARE TO BE 5.0', TYPICAL, UNLESS NOTED OTHERWISE. EXCEPTION: RADII @ ISLANDS ARE TO FIT ISLAND WIDTHS, UNLESS NOTED OTHERWISE.
2. LANDSCAPE ISLAND NOSE NOT TO EXCEED THE PARKING STALL DEPTH &/OR PROTRUDE INTO DRIVE ISLES, TYPICAL.
3. LOWER CASE TEXT DENOTES SURVEY &/OR EXISTING CONDITION INFORMATION.

GRAPHIC SCALE

40' 0 20' 40' 80'

1" = 40'

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CONSTRUCTION PLANS
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Orlando, FL 32809
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Fax: 407-895-0325
www.thomasandhutton.com

OVERALL SITE PLAN

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
WRH	CRR	WRH	WRH

PROJECT NO. 23-110
SCALE 1"=40'
DATE MARCH 31, 2025
SHEET NO. C-6
SHEET 6 OF 20

FLORIDA ENGINEERING GROUP, INC.
CERTIFICATE No. EB 26000
WILLIAM R. HOCKENSMITH
No. 35540
STATE OF FLORIDA
PROFESSIONAL ENGINEER
WILLIAM R. HOCKENSMITH, P.E.
DATE: 2026.01.13 08:49:40 -05'00'

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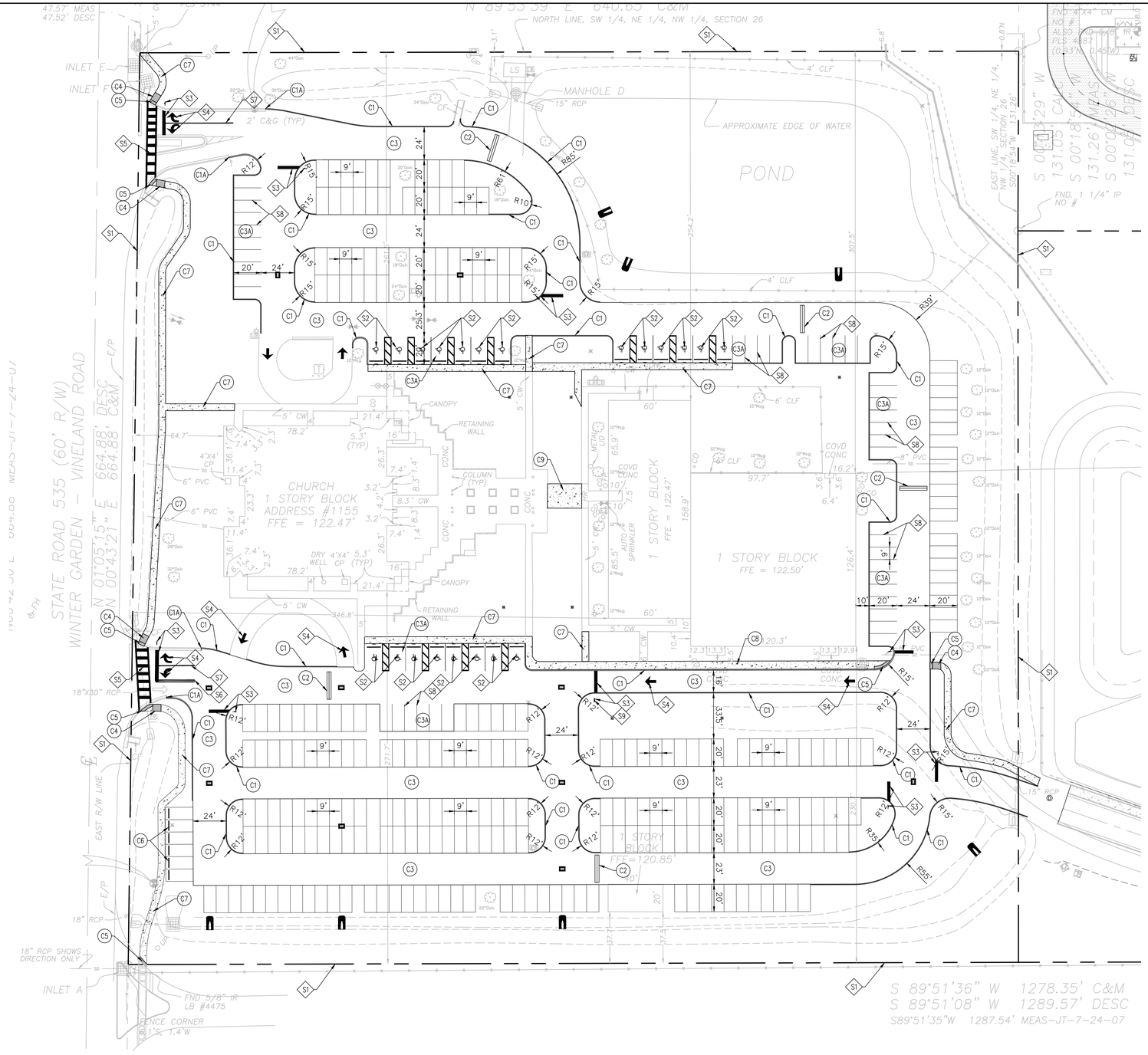
Plans.dwg



GRAPHIC SCALE

40' 0 20' 40' 80'

1" = 40'

SITE CONSTRUCTION KEYNOTES

C1. 6" HEAD CURB, TYPICAL
C1A. CONNECT TO EXISTING CURB
C2. SPEED BUMP
C3. HEAVY-DUTY ASPHALT PAVEMENT. (DRIVE AISLES)
C3A. LIGHT-DUTY ASPHALT PAVEMENT. (PARKING STALLS)
C4. HANDICAP ACCESS RAMP WITH A MAXIMUM 12:1 SLOPE, TYPICAL.
C5. DETECTABLE WARNING SURFACE PER FLORIDA BUILDING CODE
C6. CONCRETE WHEEL STOPS
C7. 5' CONCRETE SIDEWALK
C8. 6' CONCRETE SIDEWALK
C9. COURTYARD DESIGN PER ARCHITECTURAL PLAN
C10. DUMPSTER ENCLOSURE WITH CONCRETE APPROACH PAD
C11. ELECTRICAL TO REMAIN
C12. GRASS PARKING WITH COMPACTED BASE

◇ SITE STRIPING & SIGNAGE KEYNOTES

S1. PROPERTY BOUNDARY.
S2. HANDICAP PARKING STALL AND SIGN, TYPICAL.
S3. 24" THERMOPLASTIC STOP BAR WITH R1-1 HIGH INTENSITY REFLECTORIZED "STOP" SIGN, TYPICAL.
S4. DIRECTION ARROWS PER F.D.O.T. STD PLANS No. 711-001, TYPICAL.
S5. CROSSWALK STRIPING PER F.D.O.T. STD PLANS No. 711-001, TYPICAL.
S6. 6" DOUBLE YELLOW LINE (THERMOPLASTIC).
S7. 6" SOLID WHITE LINE (THERMOPLASTIC).
S8. PARKING STRIPES (6" WHITE PAINT).
S9. DO NOT ENTER SIGN
S10. 6" SOLID YELLOW THERMOPLASTIC
S11. 6" WHITE SKIP STRIPE THERMOPLASTIC

DATE	REVISIONS	BY	CHECKED
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SITE GEOMETRY PLAN PHASE 1

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
WRH	CRR	WRH	WRH

PROJECT NO. 23-110
SCALE 1"=40'
DATE MARCH 31, 2025
SHEET NO. C-7
SHEET 7 OF 20

FLORIDA ENGINEERING GROUP, INC.
CERTIFICATE No. EB2000-8
WILLIAM R. HOCKENSMITH, P.E.
No. 35540
STATE OF FLORIDA
PROFESSIONAL ENGINEER
WILLIAM R. HOCKENSMITH, P.E.
DATE: 2026.01.13 10:59:10 -05'00'

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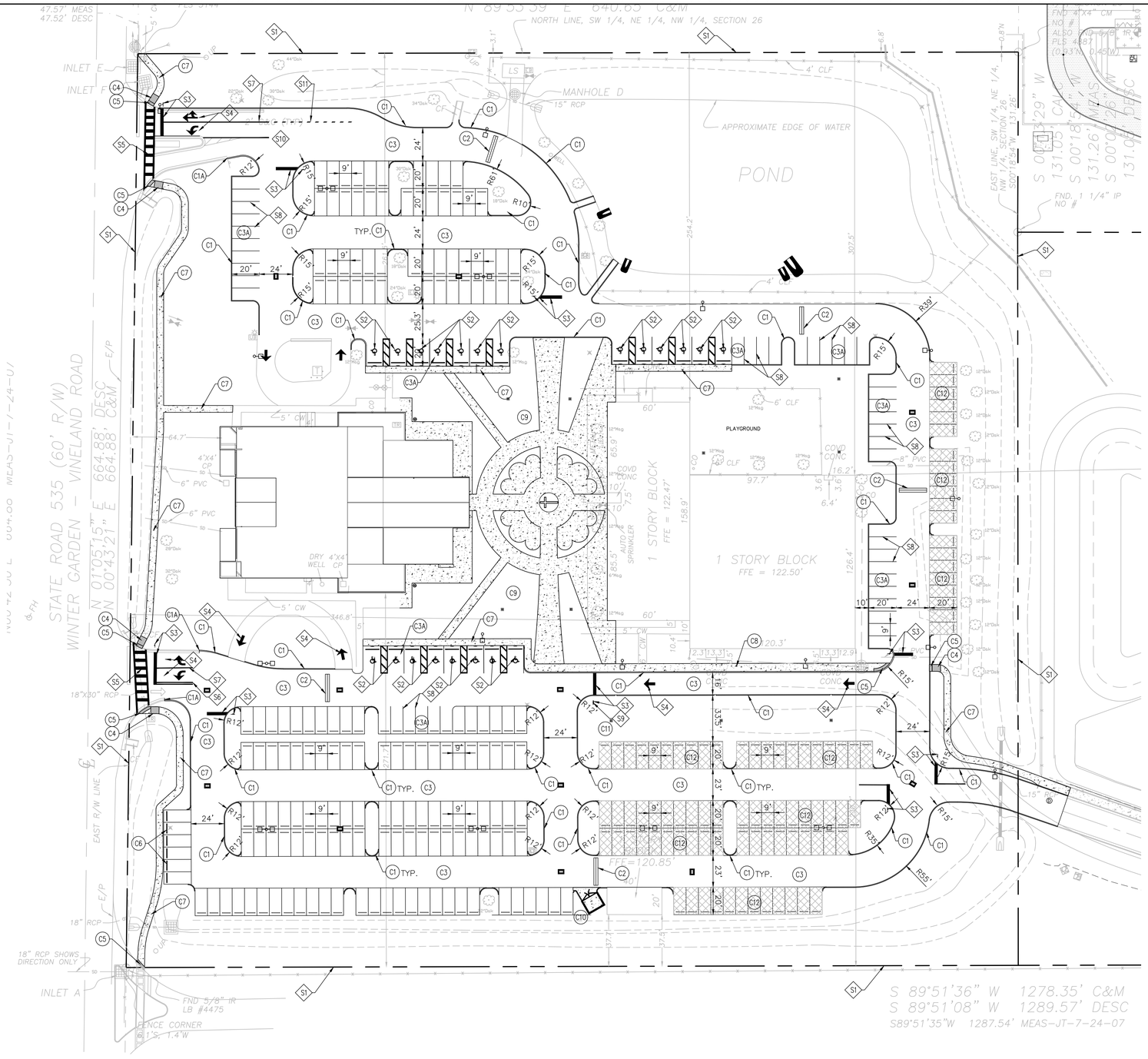

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C10. DUMPSTER ENCLOSURE WITH CONCRETE APPROACH PAD
C11. ELECTRICAL TO REMAIN
C12. GRASS PARKING WITH COMPACTED BASE

SITE STRIPING & SIGNAGE KEYNOTES

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S2. HANDICAP PARKING STALL AND SIGN, TYPICAL.
S3. 24" THERMOPLASTIC STOP BAR WITH R1–1 HIGH INTENSITY REFLECTORIZED "STOP" SIGN, TYPICAL.
S4. DIRECTION ARROWS PER F.D.O.T. STD PLANS No. 711–001, TYPICAL.
S5. CROSSWALK STRIPING PER F.D.O.T. STD PLANS No. 711–001, TYPICAL.
S6. 6" DOUBLE YELLOW LINE (THERMOPLASTIC).
S7. 6" SOLID WHITE LINE (THERMOPLASTIC).
S8. PARKING STRIPES (6" WHITE PAINT).
S9. DO NOT ENTER SIGN
S10. 6" SOLID YELLOW THERMOPLASTIC
S11. 6" WHITE SKIP STRIPE THERMOPLASTIC

DATE	REVISIONS	BY	CHECKED
1/13/2026	2 PER CITY COMMENTS RECEIVED 1/12/2026	WRH	WRH
10/31/2025	2 PER CITY COMMENTS DATED 6/12/2025	WRH	WRH
10/31/2025	1 PER SJRWMD COMMENTS DATED 5/21/2025	WRH	WRH

CONSTRUCTION PLANS
RESSURECTION CATHOLIC CHURCH
1211 WINTER GARDEN VINELAND ROAD
WINTER GARDEN, FLORIDA

FEG FLORIDA ENGINEERING GROUP
now part of
THOMAS & HUTTON

5127 S. Orange Avenue, Suite 200
Orlando, FL 32809
Phone: 407-895-0324
Fax: 407-895-0325

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SITE GEOMETRY PLAN

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
WRH	CRR	WRH	WRH

PROJECT NO. 23-110
SCALE 1"=40'
DATE MARCH 31, 2025
SHEET NO. C-8
SHEET 8 OF 20

FLORIDA ENGINEERING GROUP, INC.
CERTIFICATE No. 8600
WILLIAM R. HOCKENSMITH
No. 35540
STATE OF FLORIDA
PROFESSIONAL ENGINEER
WILLIAM R. HOCKENSMITH, P.E.
CERTIFICATE No. 35540

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY (ENGINEER), P.E. ON (DATE) USING A DIGITAL SIGNATURE.

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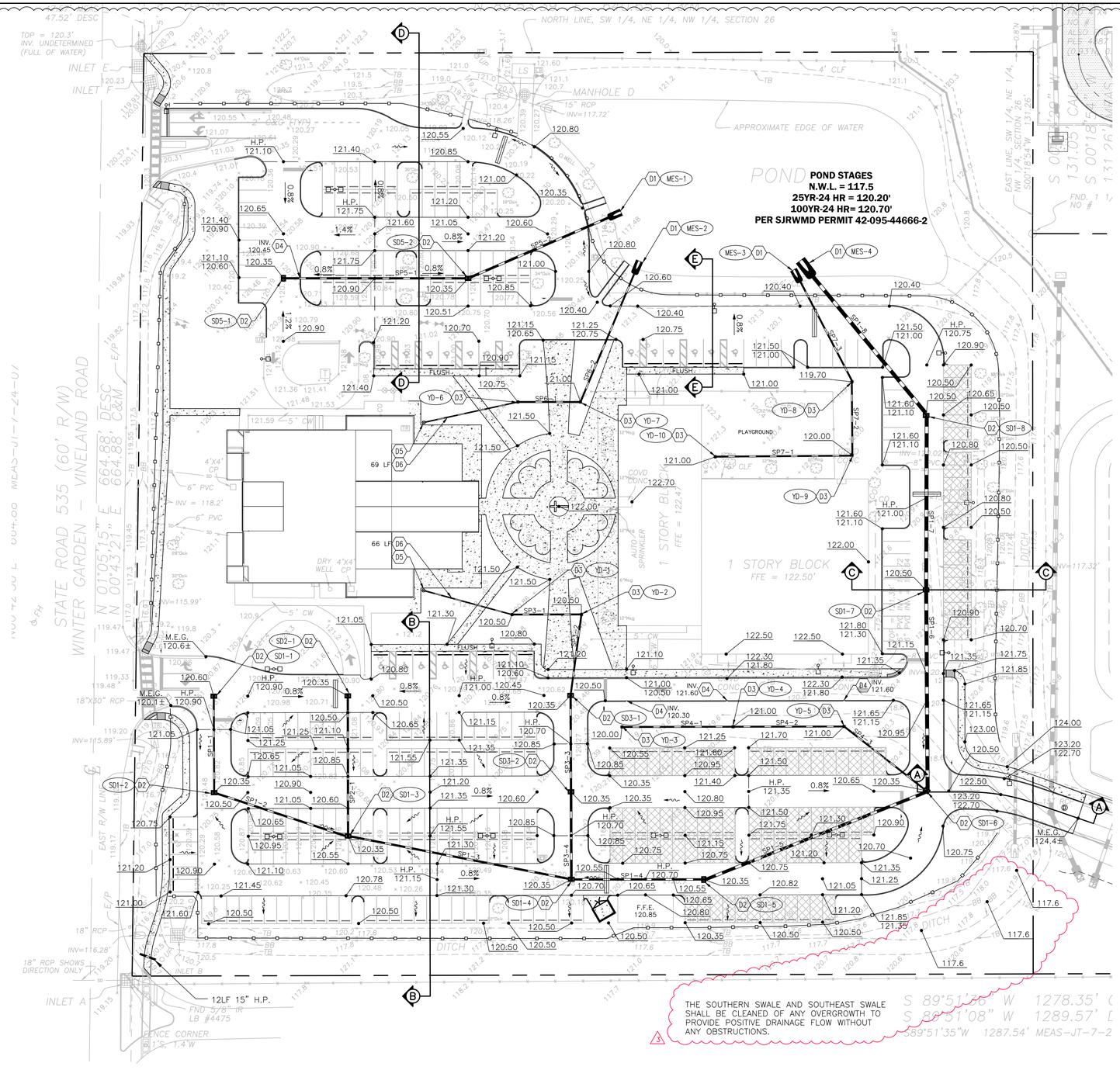
19-103 Plans.dwg



SITE DRAINAGE KEYNOTES

D1. MITERED END SECTION PER F.D.O.T. INDEX 430-022, TYPICAL.
D2. TYPE "C" INLET PER F.D.O.T. INDEX 425-052, TYPICAL.
D3. 12" ADS YARD DRAIN
D4. 18" WIDE SLOT IN CURB
D5. ROOF DRAINS, COORDINATE WITH ARCHITECTURAL PLANS.
D6. 12" PVC ROOF DRAIN @ 0.5%.
D7. CLEAN DITCH

A CROSS SECTIONS

1. SECTIONS NOT SHOWN ON THIS SHEET ARE LOCATED ON SHEET C-10 AND SUBSEQUENT SHEETS.

GRAPHIC SCALE
40' 0 20' 40' 80'
1" = 40'

DRAINAGE STRUCTURE LEGEND

SD1-1
TYPE "C" INLET
PER F.D.O.T. INDEX 425-052
TOP ELEV. 120.60
INV. ELEV. 116.31 S

SD1-2
TYPE "C" INLET
PER F.D.O.T. INDEX 425-052
TOP ELEV. 120.35
INV. ELEV. 116.10 N
INV. ELEV. 116.10 E

SD1-3
TYPE "C" INLET
PER F.D.O.T. INDEX 425-052
TOP ELEV. 120.35
INV. ELEV. 115.80 W
INV. ELEV. 115.55 E
INV. ELEV. 115.80 N

SD1-4
TYPE "C" INLET
PER F.D.O.T. INDEX 425-052
TOP ELEV. 120.35
INV. ELEV. 115.06 W
INV. ELEV. 114.56 E
INV. ELEV. 115.06 N

SD1-5
TYPE "C" INLET
PER F.D.O.T. INDEX 425-052
TOP ELEV. 120.35
INV. ELEV. 114.27 W
INV. ELEV. 114.27 NE

SD1-6
TYPE "C" INLET
PER F.D.O.T. INDEX 425-052
TOP ELEV. 120.35
INV. ELEV. 113.75 SW
INV. ELEV. 113.25 N
INV. ELEV. 114.50 NW

SD1-7
TYPE "C" INLET
PER F.D.O.T. INDEX 425-052
TOP ELEV. 120.50
INV. ELEV. 112.81 S
INV. ELEV. 112.81 N

SD1-8
TYPE "C" INLET
PER F.D.O.T. INDEX 425-052
TOP ELEV. 120.50
INV. ELEV. 112.43 S
INV. ELEV. 112.43 NW

SD2-1
TYPE "C" INLET
PER F.D.O.T. INDEX 425-052
TOP ELEV. 120.35
INV. ELEV. 116.10 S

SD3-1
TYPE "C" INLET
PER F.D.O.T. INDEX 425-052
TOP ELEV. 120.35
INV. ELEV. 115.71 N
INV. ELEV. 115.46 S

SD3-2
TYPE "C" INLET
PER F.D.O.T. INDEX 425-052
TOP ELEV. 120.35
INV. ELEV. 115.25 N
INV. ELEV. 115.25 S

SD5-1
TYPE "C" INLET
PER F.D.O.T. INDEX 425-052
TOP ELEV. 120.35
INV. ELEV. 116.52 E

SD5-2
TYPE "C" INLET
PER F.D.O.T. INDEX 425-052
TOP ELEV. 120.35
INV. ELEV. 115.85 W
INV. ELEV. 115.60 E

YD-1
ADS YARD DRAIN
TOP ELEV. 120.50
INV. ELEV. 116.26 E
INV. ELEV. 116.51 W

YD-2
ADS YARD DRAIN
TOP ELEV. 120.50
INV. ELEV. 116.01 E
INV. ELEV. 116.01 W

YD-3
ADS YARD DRAIN
TOP ELEV. 120.00
INV. ELEV. 115.93 E

YD-4
ADS YARD DRAIN
TOP ELEV. 121.00
INV. ELEV. 115.53 E
INV. ELEV. 115.53 W

YD-5
ADS YARD DRAIN
TOP ELEV. 121.00
INV. ELEV. 115.13 W
INV. ELEV. 114.88 SE

YD-6
ADS YARD DRAIN
TOP ELEV. 120.75
INV. ELEV. 116.03 E
INV. ELEV. 116.03 W

YD-7
ADS YARD DRAIN
TOP ELEV. 121.00
INV. ELEV. 115.80 W
INV. ELEV. 115.55 NE

YD-8
ADS YARD DRAIN
TOP ELEV. 119.70
INV. ELEV. 115.46 NW
INV. ELEV. 115.46 S

YD-9
ADS YARD DRAIN
TOP ELEV. 120.00
INV. ELEV. 115.73 N
INV. ELEV. 115.73 W

YD-10
ADS YARD DRAIN
TOP ELEV. 121.00
INV. ELEV. 116.23 E

MES-1
MITERED END SECTION
PER F.D.O.T. INDEX 430-022
INV. ELEV. 115.00

MES-2
MITERED END SECTION
PER F.D.O.T. INDEX 430-022
INV. ELEV. 115.00

MES-3
MITERED END SECTION
PER F.D.O.T. INDEX 430-022
INV. ELEV. 115.00

MES-4
MITERED END SECTION
PER F.D.O.T. INDEX 430-022
INV. ELEV. 112.00

STORM DRAINAGE PIPE CHART

DESIGNATION	PIPE LENGTH (LINEAR FEET)	PIPE SIZE & TYPE	PIPE SLOPE	FROM STRUCTURE NUMBER	TO STRUCTURE NUMBER
SP1-1	70	15" H.P.	0.3%	SD1-1	SD1-2
SP1-2	101	15" H.P.	0.3%	SD1-2	SD1-3
SP1-3	164	18" H.P.	0.3%	SD1-3	SD1-4
SP1-4	95	24" H.P.	0.3%	SD1-4	SD1-5
SP1-5	173	24" H.P.	0.3%	SD1-5	SD1-6
SP1-6	145	30" H.P.	0.3%	SD1-6	SD1-7
SP1-7	126	30" H.P.	0.3%	SD1-7	SD1-8
SP1-8	144	30" H.P.	0.3%	SD1-8	MES-4
SP2-1	101	15" H.P.	0.3%	SD2-1	SD1-3
SP3-1	50	15" P.V.C.	0.5%	YD-1	YD-2
SP3-2	59	15" P.V.C.	0.5%	YD-2	SD3-1
SP3-3	70	18" H.P.	0.3%	SD3-1	SD3-2
SP3-4	63	18" H.P.	0.3%	SD3-2	SD1-4
SP4-1	80	12" P.V.C.	0.5%	YD-3	YD-4
SP4-2	80	12" P.V.C.	0.5%	YD-4	YD-5
SP4-3	75	15" P.V.C.	0.5%	YD-5	SD1-6
SP5-1	133	15" H.P.	0.5%	SD5-1	SD5-2
SP5-2	120	18" H.P.	0.5%	SD5-2	MES-1
SP6-1	45	12" P.V.C.	0.5%	YD-6	YD-7
SP6-2	110	15" P.V.C.	0.5%	YD-7	MES-2
SP7-1	99	12" P.V.C.	0.5%	YD-10	YD-9
SP7-2	53	12" P.V.C.	0.5%	YD-9	YD-8
SP7-3	91	12" P.V.C.	0.5%	YD-8	MES-3

VERTICAL DATUM: NGVD 29

1

DATE	REVISIONS	BY	CHECKED
1/13/2026	1 PER CITY COMMENTS RECEIVED 1/12/2026	WRH	WRH
10/31/2025	2 PER CITY COMMENTS DATED 6/12/2025	WRH	WRH
10/31/2025	1 PER SJRWMD COMMENTS DATED 5/21/2025	WRH	WRH

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Orlando, FL 32809
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www.thomasandhutton.com

SITE PAVING, GRADING & DRAINAGE PLAN

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
WRH	CRR	WRH	WRH

PROJECT NO. 23-110
SCALE 1"=40'
DATE MARCH 31, 2025
SHEET NO. C-9
SHEET 9 OF 20

FLORIDA ENGINEERING GROUP, INC.
CERTIFICATE No. 8600
WILLIAM R. HOCKENSMITH
No. 35540
STATE OF FLORIDA
PROFESSIONAL ENGINEER
WILLIAM R. HOCKENSMITH, P.E.
CERTIFICATE No. 35540

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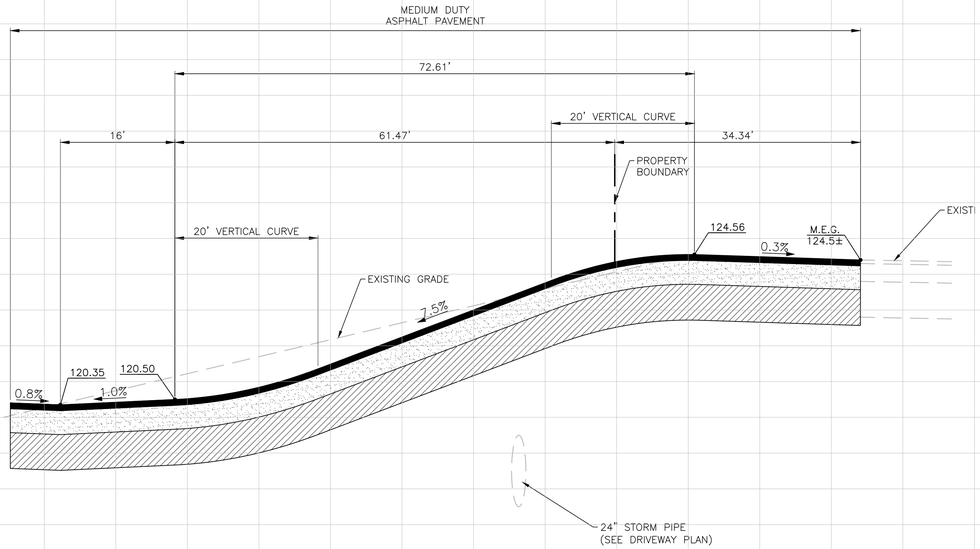
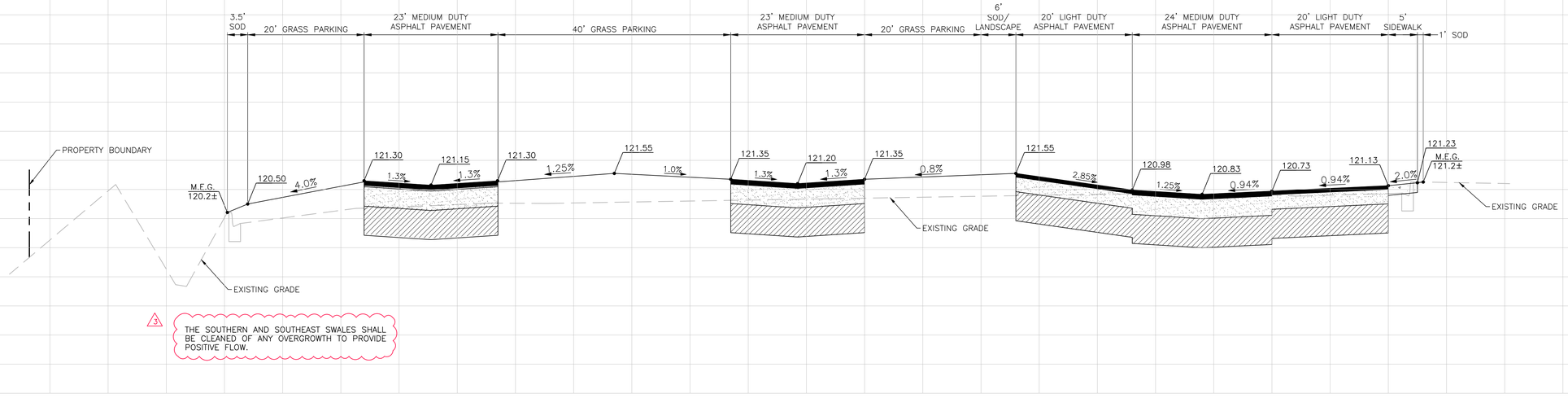
Plans.dwg



HORIZONTAL 1" = 10'
VERTICAL 1" = 2'

SECTION A–A



HORIZONTAL 1" = 10'
VERTICAL 1" = 2'

SECTION B–B

VERTICAL DATUM: NGVD 29

DATE	REVISIONS	BY	CHECKED
1/13/2026	3 PER CITY COMMENTS RECEIVED 1/12/2026	WRH	WRH
10/31/2025	2 PER CITY COMMENTS DATED 6/12/2025	WRH	WRH
10/31/2025	1 PER SJRWMD COMMENTS DATED 5/21/2025	WRH	WRH

CONSTRUCTION PLANS
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SITE CROSS SECTIONS (1 OF 2)

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
WRH	CRR	WRH	WRH

PROJECT NO. 23-110
SCALE NOTED
DATE MARCH 31, 2025
SHEET NO. C-10
SHEET 10 OF 20

FLORIDA CERTIFICATE OF AUTHORIZATION NO. EB 26000674
WILLIAM R. HOCKEN SMITH
No. 35540
STATE OF FLORIDA
PROFESSIONAL ENGINEER
WILLIAM R. HOCKEN SMITH, P.E.
FLORIDA LICENSE NO. 35540

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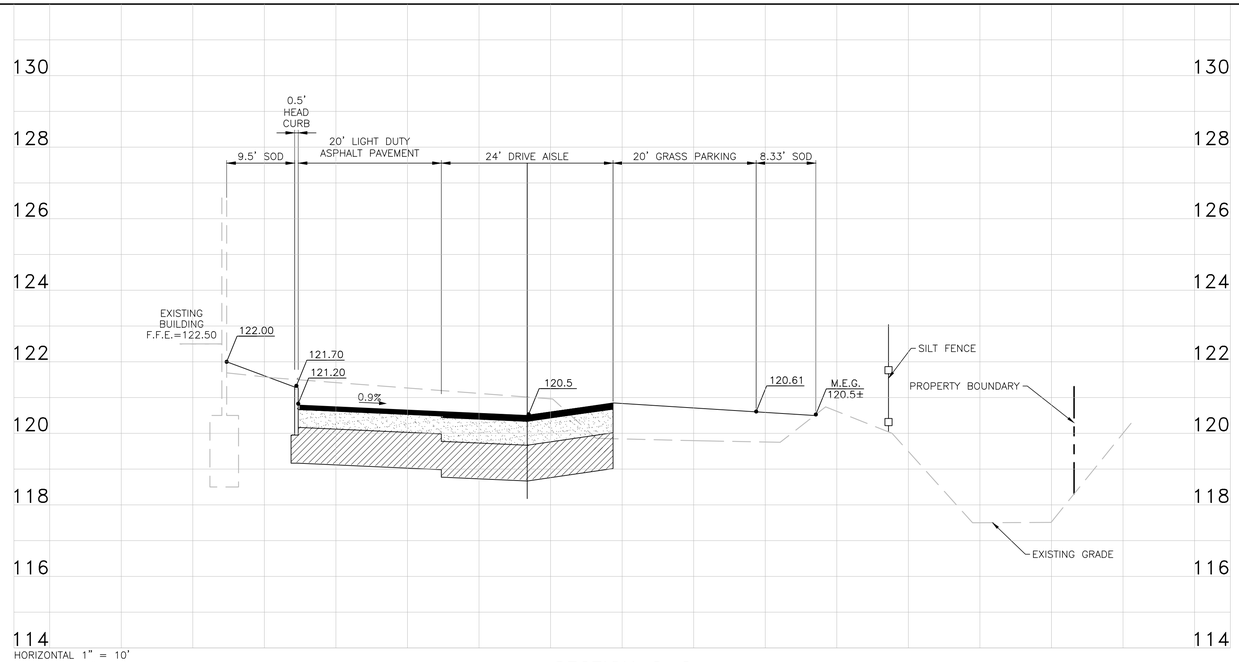
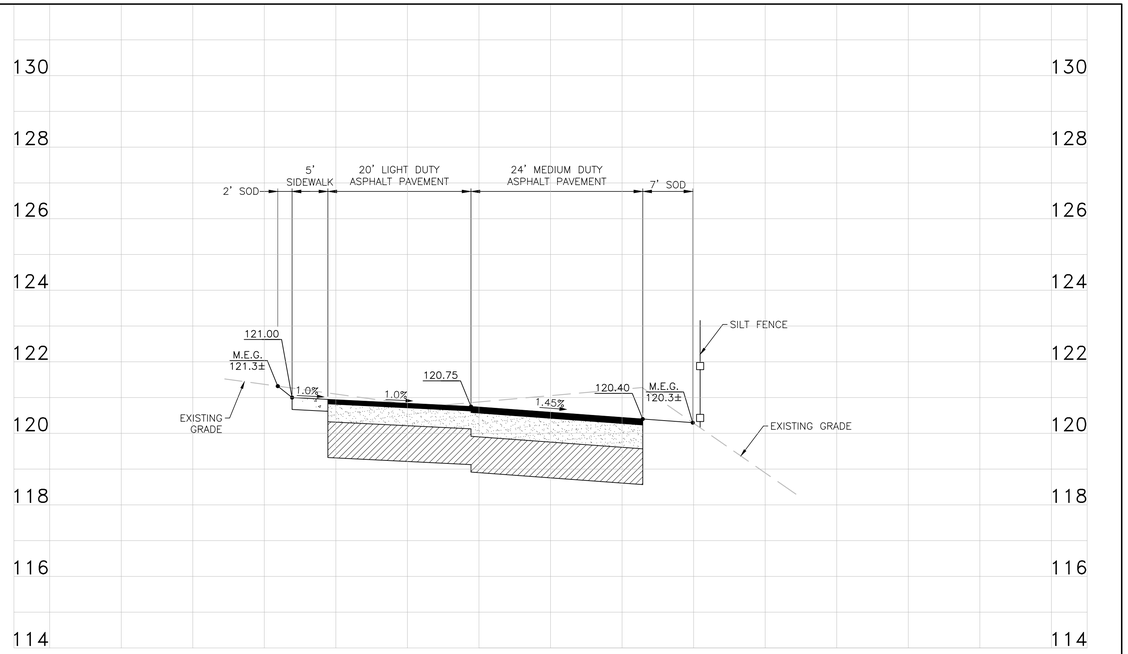
CrossSections.dwg

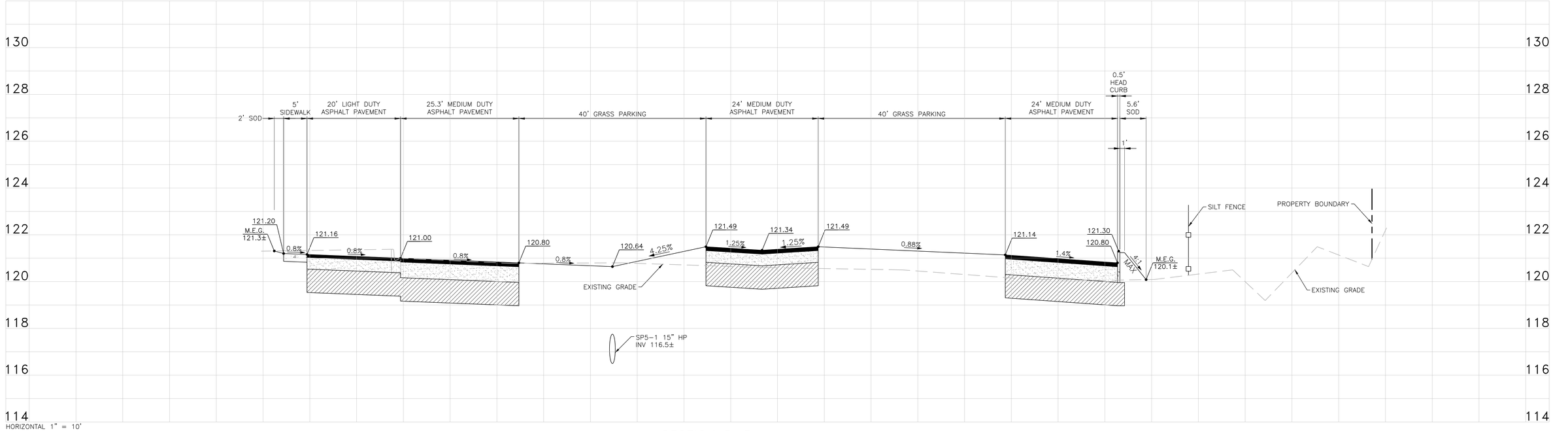


HORIZONTAL 1" = 10'
VERTICAL 1" = 2'

SECTION C–C



SECTION E–E



HORIZONTAL 1" = 10'
VERTICAL 1" = 2'

SECTION D–D

VERTICAL DATUM: NGVD 29

DATE	REVISIONS	BY	CHECKED
1/13/2026	3 PER CITY COMMENTS RECEIVED 1/12/2026	WRH	WRH
10/31/2025	2 PER CITY COMMENTS DATED 6/12/2025	WRH	WRH
10/31/2025	1 PER SJRWMD COMMENTS DATED 5/21/2025	WRH	WRH

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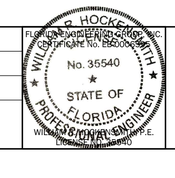
SITE CROSS SECTIONS (1 OF 2)

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
WRH	CRR	WRH	WRH

PROJECT NO. 23-110
SCALE NOTED
DATE MARCH 31, 2025
SHEET NO. C-11
SHEET 11 OF 20



FLORIDA ENGINEERING GROUP, INC.
CERTIFICATE No. EB2000

WILLIAM R. HOCKEN SMITH, P.E.
FLORIDA LICENSE No. 35540

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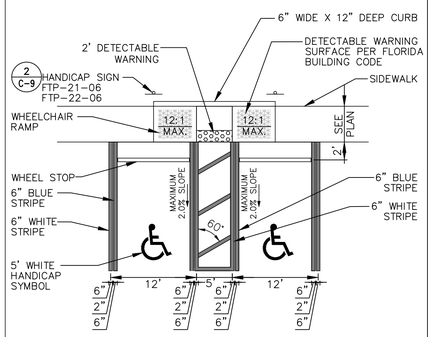
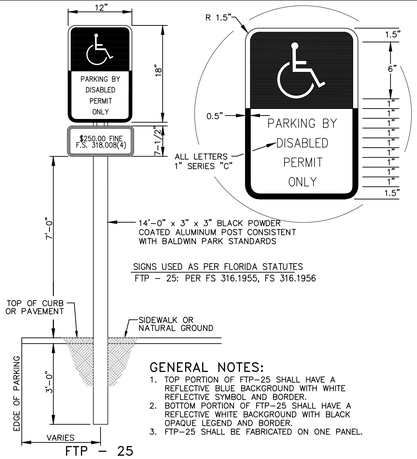
CrossSections.dwg



1 C-9 HANDICAP PARKING DETAIL
SCALE 1" = 10'



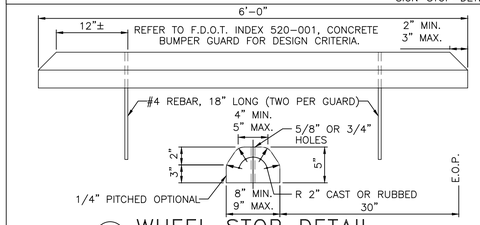
GENERAL NOTES:
1. TOP PORTION OF FTP-25 SHALL HAVE A REFLECTIVE BLUE BACKGROUND WITH WHITE REFLECTIVE SYMBOL AND BORDER.
2. BOTTOM PORTION OF FTP-25 SHALL HAVE A REFLECTIVE WHITE BACKGROUND WITH BLACK OPAQUE LEGEND AND BORDER.
3. FTP-25 SHALL BE FABRICATED ON ONE PANEL.

2 C-9 HANDICAP SIGN DETAIL
SCALE 1" = 1'

30" HIGH INTENSITY REFLECTORIZED MATERIAL REFER TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION

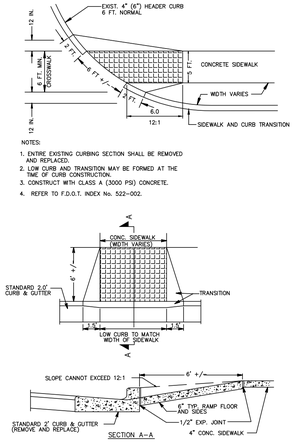
3 C-5 R1-1 STOP SIGN DETAIL
NOT TO SCALE

SIGN-STOP-DET.dwg



4 C-9 WHEEL STOP DETAIL
SCALE 1" = 1'

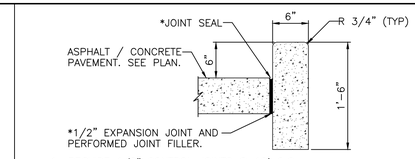
WHL-STOP-DET.dwg



NOTES
1. ENTIRE EXISTING CURBING SECTION SHALL BE REMOVED AND REPLACED.
2. LOW CURB AND TRANSITION MAY BE FORMED AT THE TIME OF CURB CONSTRUCTION.
3. CONSTRUCT WITH CLASS A (3000 PSI) CONCRETE.
4. REFER TO F.D.O.T. INDEX No. 522-002.

5 C-9 WHEELCHAIR RAMP-STRAIGHT
N.T.S.

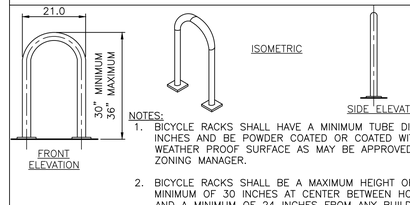
SW-HC-RAMP-FDOT-DET.dwg



1. PROVIDE 1/8" CONTROL JOINTS @ 10' O.C.
2. * PROVIDE EXPANSION JOINT WHERE CONCRETE CURB ABUTS CONCRETE PAVEMENT, CURB AND ANY FIXED STRUCTURE.

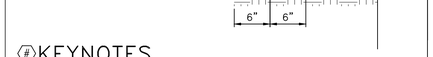
6 C-11 HEAD CURB
SCALE 1" = 1'

CURB-HEAD-DET.dwg



NOTES:
1. BICYCLE RACKS SHALL HAVE A MINIMUM TUBE DIAMETER OF 1.9 INCHES AND BE POWDER COATED OR COATED WITH ANOTHER WEATHER PROOF SURFACE AS MAY BE APPROVED BY THE ZONING MANAGER.
2. BICYCLE RACKS SHALL BE A MAXIMUM HEIGHT OF 36 INCHES, A MINIMUM OF 30 INCHES AT CENTER BETWEEN HORIZONTAL ROWS, AND A MINIMUM OF 24 INCHES FROM ANY BUILDING WALL.

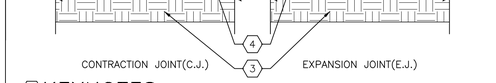
9 C-9 INVERTED U BIKE RACK



#KEYNOTES
1. MINIMUM HEIGHT OF CURB ABOVE GRADE SHALL BE 10". REFER TO GRADING PLANS FOR ELEVATIONS.
2. 3000 PSI CONCRETE WITH FIBER MESH, TYPICAL.
3. 6" COMPACTED SUB-GRADE TO @ LEAST 95% OF THE MODIFIED PROTOR MAXIMUM DRY DENSITY VALUE (ASTM D-1557, AASHTO T-180).
4. SIDEWALK SHALL BE PICTURE FRAME WITH BROOM FINISH.

8 C-9 SIDEWALK WITH MONOLITHIC CURB
SCALE 1" = 1'

SW-MONO-CURB-CONC-PG.dwg



#KEYNOTES
1. 1" DEEP 1/8"R TOOLED JOINT.
2. PREMOLDED EXPANSION JOINT FILLER STRIP & JOINT SEALER W/1/8"R TOOLED EDGES.
3. 6" COMPACTED SUBGRADE
4. 3000 P.S.I. CONC. W/FIBER MESH(TYP)
5. FINISHED GRADE (TYP.)
6. SIDEWALK SHALL BE PICTURE FRAME WITH BROOM FINISH.

16 C-9 CONCRETE SIDEWALK
SCALE 1" = 1'

SW-CONC-PS-PLAN.DWG

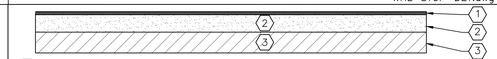
#KEYNOTES
1. SOD
2. 2" DIRT
3. 12" SUBGRADE TO A MINIMUM FBV OF 75 PSI, ENTIRE 12" DEPTH TO BE COMPACTED TO AT LEAST 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY VALUE (ASTM D-1557, AASHTO T-180).

GRASS PARKING WITH COMPACTED SUBGRADE
NOT TO SCALE

WALL SHALL BE DECORATIVE SPLIT FACE BLOCK, NORMAN BRICK OR STANDARD CONCRETE MASONRY CLAD WITH PAINTED STUCCO OR OTHER MASONRY VENEER. THE WALL SHALL INCLUDE A CONTINUOUS CAP FEATURE AND CLOSING GATE, CITY CODE SEC. 18-1529.

DUMPSTER PAD DETAIL
NOT TO SCALE

DUMP-12x10-ORANGE CO-DET.dwg 2

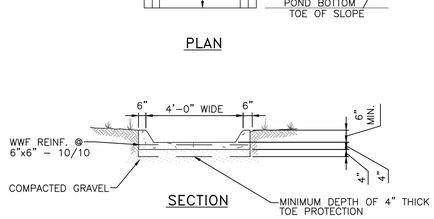


#KEYNOTES
1. 1-1/2" MINIMUM, TYPE SP-9.5 OR SP-12.5 ASPHALTIC CONCRETE WEARING SURFACE COMPACTED TO 95% OF LAB DENSITY (MINIMUM MARSHALL STABILITY OF 1,500 LBS.)
2. 6" CRUSHED CONCRETE BASE COURSE WITH MINIMUM LBR OF 150, COMPACTED TO AT LEAST 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557, AASHTO T-180) AND GRADATION TO MEET F.D.O.T. STANDARD SPECIFICATIONS OF ROAD & BRIDGE CONSTRUCTION.
OR 6" LIMEROCK BASE LBR 100, COMPACTED TO 98% MAXIMUM DENSITY.
3. 12" SUBGRADE TO A MINIMUM FBV OF 75 PSI, ENTIRE 12" DEPTH TO BE COMPACTED TO AT LEAST 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY VALUE (ASTM D-1557, AASHTO T-180).

10 ASPHALT SECTION-PARKING SPACES(LIGHT)
NOT TO SCALE

#KEYNOTES
1. 2" MINIMUM, TYPE SP-9.5 OR SP-12.5 ASPHALTIC CONCRETE WEARING SURFACE COMPACTED TO 95% OF LAB DENSITY (MINIMUM MARSHALL STABILITY OF 1,500 LBS.)
2. 8" CRUSHED CONCRETE BASE COURSE WITH MINIMUM LBR OF 150, COMPACTED TO AT LEAST 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557, AASHTO T-180) AND GRADATION TO MEET F.D.O.T. STANDARD SPECIFICATIONS OF ROAD & BRIDGE CONSTRUCTION.
OR 8" LIMEROCK BASE LBR 100, COMPACTED TO 98% MAXIMUM DENSITY.
3. 12" SUBGRADE TO A MINIMUM FBV OF 75 PSI, ENTIRE 12" DEPTH TO BE COMPACTED TO AT LEAST 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY VALUE (ASTM D-1557, AASHTO T-180).

11 ASPHALT SECTION-DRIVE AISLES (MEDIUM)
NOT TO SCALE



11 C-9 FLUME DETAIL
NOT TO SCALE

FLUME-NO FLAT-NO RIBS-2%TOP-DET.dwg

CITY OF WINTER GARDEN STANDARDS

HP Storm Pipe shall meet all City material and installation requirements as specified in the City's Standards & Specifications including Class I bedding, laser profiling, installation per ASTM D2321, etc.

13.02.05 – HP Storm Dual Wall Polypropylene Pipe (PP)

Polypropylene compound for pipe and fitting production shall be impact modified copolymer meeting the material requirements of ASTM F2881, Section 5, ASTM F2881, and AASHTO M330, Section 6.1.

Pipe requirements are as follows: 12 inch through 60 inch pipe shall have a smooth interior and annular exterior corrugations and meet or exceed ASTM F2881 and AASHTO M330.

Pipe shall be joined with a dual gasketed integral bell and spigot joint meeting the requirements of ASTM F2881 and AASHTO M330. Joints shall be water-tight according to the requirements of ASTM D3212. Gaskets shall meet the requirements of ASTM F477. Gaskets shall be installed by the pipe manufacturer and covered with a removable, protective wrap to ensure the gasket is free from debris. A joint lubricant available from the manufacturer shall be used on the gasket and bell during assembly. 12 through 60-inch diameter shall have an exterior wrap installed by the manufacturer.

To assure water-tightness, field performance verification may be accomplished by testing in accordance with ASTM F1417 or ASTM F2487. Contact the manufacturer for recommended leakage rates.

Installation shall be in accordance with ASTM D2321 and the pipe manufacture's recommended installation guidelines. ASTM D2321 is a widely accepted method for installation of thermoplastic pipe. It is critical the Engineer require that all sections of the specification be adhered to and to realize the Engineer is ultimately responsible for all aspects of the soil pipe system performance. Class I backfill shall be used for all polypropylene pipe installed within the City of Winter Garden. Water stop gaskets shall be installed at all structures per the manufactures guidelines. Only non-shrink grout shall be used when connecting to drainage structures. No pipe joints shall be permitted under the roadway within residential subdivisions. All road crossings within residential subdivisions shall be constructed such that a continuous length of pipe spans the distance between drainage structures.

Any contractor installing HP Storm pipe within the City of Winter Garden shall be certified by the pipe manufacturer as qualified to install said piping material. A copy of the certification must presented to the City prior to the issuance of the site permit.

From the City of Winter Garden's Manual of Standards and Specifications for Utilities Construction

12.4 AS BUILT REQUIREMENTS/RECORD DRAWINGS

12.4.1 RECEIVABLES

The DESIGN ENGINEER shall submit FOUR (4) certified sets (24"X36") of Record Drawings to the CITY prior to issuance of Certificate of Completion for the improvements. The DESIGN ENGINEER shall be responsible for recording information on the approved PLANS concurrently with construction progress. Record Drawings submitted to the CITY as part of the project acceptance shall comply with the following requirements:

- 1 - CD or DVD** in a jewel case to include Two (2) electronic files of record drawings shall be provided to the City. One Drawing file shall be PDF format (Signed and Sealed) and the second shall be in AutoCAD format. **The disk label shall include the following:
  1. Engineering and/or Survey Company Name with prepared by statement
  2. Project Name, City of Winter Garden Project Number
  3. Date the data is burned onto disk
  4. Designate "Record Drawing", "Preliminary Record Drawing" or "Other".
- Auto-CAD Files must be submitted in DWG format minimally.
- Each file should be for one section of development and one layer included below. Multiple sections will not be accepted in one file.
- Provide outline of layers on the Auto-CAD file.
- Auto-CAD files shall be saved by using the E-TRANSMIT command.
- Drawings shall clearly show all field changes of dimension and detail including changes made by field order or by change order. Everything in the ground shall be "as-built" and turned in to Engineering Dept. in a Signed & Sealed scanned PDF format.
- Drawings shall clearly show all details not on original contract drawings but constructed in the field. All equipment and piping relocation shall be clearly shown.
- Tie into section corners in the Florida State Plane Coordinate System East to insure proper orientation at each end of baseline. Section corner tie sheets can be obtained from the Orange County Surveyor's web page.
- Each sheet of the PLANS shall be signed, sealed and dated by the DESIGN ENGINEER as being "Record Drawings". Construction PLANS simply stamped "As-Builts" or "Record Drawings" and lacking in above requirements will not be accepted, and will be returned to the DESIGN ENGINEER. The "Certificate of Completion" will not be issued until correct "Record Drawings" have been submitted.

12.4.2 DATUM

- As used in the design and shown on the Record Drawing; Horizontal datum shall be referenced to North American Datum of 1983, on the 1990 adjustment for Florida Transverse Mercator - East Zone. **The same datum used in the design and shall be shown as the datum used in the Record Drawing;** Vertical datum shall be referenced to the National Geodetic Vertical Datum of 1929 or to the North American Vertical Datum of 1988. **THIS SHALL BE CLEARLY NOTED ON THE PLANS.**
- Where there is no baseline, the baseline for water main should be the sanitary sewer, if there is no sanitary sewer then the storm sewer, if no storm sewer the property/ROW line, baseline for sanitary sewer should be the sanitary sewer; baseline for storm sewer should be the storm sewer.
- All record data shall be digitally positioned on the design drawings prepared by the engineer of record. Said design drawings shall be complete and include both plan and profile views of the infrastructure.
- In all cases, State Plane Coordinates shall be used in the electronic datum, station, off-set and elevations shall be shown on the plan.

12.4.3 GENERAL (FOR ALL LAYERS)

- All references to "proposed" and "plan" are to be removed from the Record Drawing.
- All lines, structures, and other items that are relocated will be removed and shown in the proper location (hand written notes and "x"ing out will not be allowed).
- All record drawings will be signed and sealed by Certified Land Surveyor or Professional Engineer licensed to practice in the State of Florida. If certified by a Surveyor, P.E. will sign off Stating that the record drawings were checked by the engineer, verifying that they inspected the work.
- Lot numbers on the as-builts shall match the lot numbers on the recorded plat.
- Clearly mark existing infrastructure which is to remain.
- Clearly mark existing infrastructure which has been abandoned, and how it was abandoned.
- Station, length, width and depth of flowable fill used.
- Record Drawings shall not be greater than 1" equals 30'.
- All Detail sheets shall be included with each record drawing.
- Location by station and elevation, width, depth and length of flowable fill used for all uses
- Supply all surveys of the project and or property

12.4.4 WATER, REUSE AND FORCE MAINS (EACH TO BE LOCATED ON A SEPERATE LAYER)

- Location of all meter boxes, valves, tees, bends, reducers, caps, plugs, fire hydrants, backflow preventers, water services, taps, air release valves, including top of pipe at ARV, and centerline of water main on station and offset not to exceed 100'. All horizontal deflections shall be called out.
- Top of pipe elevations should be shown on all tees, valves, bends, reducers, caps, plugs, centerline of water main not to exceed 100 lineal feet, and bottom flange of barrel section of the fire hydrant. All vertical deflections shall be called out.
- Restrained joint pipe length (station to station).
- Manufacturer, model, usage, type and size of valves shall be shown on the plan.
- Numbered sample points locations needed for DEP submittal (to be removed from "final" as-built).
- Length of run between fittings, type of and size of pipe material.
- Call out variation (if it exists) in stationing of corporation compared to meter box.

12.4.5 SANITARY SEWERS; (TO BE LOCATED ON A SEPARATE LAYER)

- Manhole rim elevation, invert elevations and directions.
- Length of run between sanitary structures, type of and size of pipe material with calculated percentage of slope for the run of pipe.
- Location of sanitary service wyes with station and offset, together with the invert elevation, station and offset, pipe diameter and material (only at clean-out).
- Applicable lift station information should be filled out on the detail sheet for lift stations.

12.4.6 WATER/SANITARY/STORM/REUSE PIPE CROSSINGS AND SEPARATIONS (PART OF WATER,SANITARY, REUSE AND/OR STORM LAYER)

- Pipe types, sizes and material.
- Crossings, Top and bottom elevations of pipes crossing each other and the distance between the outside of the two lines.
- Separation; Distance between the outside of the two lines.

12.4.7 CONFLICT STORM/WATER/SANITARY/REUSE STRUCTURES (PART OF EACH APPLICABLE LAYER)

- Top and bottom of casing.
- All info asked for in storm or sanitary manhole descriptions with the addition of top of all pipes.

12.4.8 CASINGS (PART OF EACH APPLICABLE LAYER)

- Material and thickness.
- Top of and invert of casing.
- Length and station and offset of ends.
- If used, station and offset for vent, including tap location, and fittings.

12.4.9 STORM SEWERS AND UNDERDRAIN (TO BE LOCATED ON A SEPARATE LAYER)

- Manhole and catch basin rim elevation, outfalls and top of headwall invert elevations and direction, weir elevations, bottom of manholes and catch basins (sumps).
- Length of run between storm structures, type of and size of pipe material with calculated percentage of slope for the run of pipe.
- Location of service connections (without manholes) together with the invert elevation, pipe diameter and material.
- Dry retention, wet retention, dry detention, wet detention areas.
- Exfiltration trenches. Station at beginning and end of system, width, depth.
- Top of and toe of slope on berm elevation designed to stop flooding.
- Underdrain. Station at beginning and end of the system, type of and size of pipe with clean-out locations.

12.4.10 STREET LIGHTS (TO BE LOCATED ON A SEPARATE LAYER)

- Manufacturer, model, and height of poles shall be shown on the record drawings.
- Manufacturer, model, and wattage and voltage of lights shall be shown on the record drawings.
- Pull boxes, station and offset.
- Length of conduit runs between boxes and poles, type of, and size of pipe material. Shown as, laid in the ground not as a wiring schematic, with amount, by color, type of, and size of wiring material.
- Service connection, type (Duke Energy owned, City metered) station and offset.

12.4.11 IRRIGATION (TO BE LOCATED ON A SEPARATE LAYER)

- Backflow preventer, control stand location, Control valve, zone, station and offset.
- Main line piping size, material, lengths, depth
- Heads, Type (1/4, half, 3/4, full circle) zone, station and offset.
- Control Stand, station and offset.

12.4.12 LANDSCAPING (TO BE LOCATED ON A SEPARATE LAYER)

- Tree type, caliper, and height.
- Tree grate, size, and model.
- Station, elevation, length, width, and depth of Structural Soil used.
- Top of and toe of slope on berm elevation for landscaping.

12.4.13 PRIVATE CONSTRUCTION IMPACTS TO RIGHT-OF-WAY (TO BE LOCATED ON A SEPARATE LAYER)

- Private utility or revocable easements in the City ROW's or on City property must be shown on the plan. Any improvements within the easement need to be shown and called out as private. The recording information should be on the as-built.

- Privately owned lighting, irrigation and landscaping in the City right-of-way needs to be called out as private and identified.
- All aerial and underground foster easements (or ROW).

12.4.14 FLOWABLE FILL (PART OF EACH APPLICABLE LAYER)

- Limits of flowable fill shall be noted on the as-built (Location, Length, Width, & Depth).

CITY OF WINTER GARDEN AS BUILT REQUIREMENTS

DATE	REVISIONS	BY	CHECKED
1/13/2026	3 PER CITY COMMENTS RECEIVED 1/12/2026	WRH	WRH
10/31/2025	2 PER CITY COMMENTS DATED 6/12/2025	WRH	WRH
10/31/2025	1 PER SJRWMD COMMENTS DATED 5/21/2025	WRH	WRH

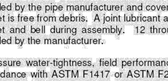
CONSTRUCTION PLANS
RESSURECTION CATHOLIC CHURCH
1211 WINTER GARDEN VINELAND ROAD
WINTER GARDEN, FLORIDA

FEG FLORIDA ENGINEERING GROUP
now part of THOMAS & HUTTON
5127 S. Orange Avenue, Suite 200
Orlando, FL 32809
Phone: 407-895-0324
Fax: 407-895-0325
www.thomasandhutton.com

SITE CONSTRUCTION DETAILS

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
WRH	CRR	WRH	WRH

PROJECT NO. 23-110
SCALE AS-SHOWN
DATE MARCH 31, 2025
SHEET NO. C-12
SHEET 12 OF 20



THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY (ENGINEER), P.E. ON (DATE) USING A DIGITAL SIGNATURE.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

23-110_Details.dwg

CITY OF WINTER GARDEN – GENERAL NOTES:

1. ALL UTILITY SYSTEMS AND IMPROVEMENTS CONSTRUCTED IN THE CITY OF WINTER GARDEN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MANUAL OF STANDARDS AND SPECIFICATIONS FOR UTILITY CONSTRUCTION FOR THE CITY OF WINTER GARDEN, TO BE REFERRED TO AS MSS/CWG. THE LATEST EDITION AT THE TIME PERMITS ARE APPROVED SHALL BE EFFECTIVE FOR THE DURATION OF THE SUBJECT WORK OR PROJECT DEVELOPMENT.
2. THE CITY OF WINTER GARDEN GENERAL NOTES AND DETAILS ARE PROVIDED FOR THE CONVENIENCE OF FIELD PERSONNEL. THEY DO NOT INCLUDE ALL REQUIREMENTS OF THE MSS/CWG. THE CONTRACTOR SHALL REFER TO THE FULL TEXT OF THE MSS/CWG FOR FURTHER DETAIL AND CLARITY WHEN NEEDED.
3. ANY REQUEST FOR VARIANCE OR NONCOMPLIANCE FROM THE MSS/CWG NOTED ABOVE MUST BE APPROVED BY THE CITY ENGINEER OR UTILITIES DIRECTOR.
4. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN EXCAVATING IN CLOSE PROXIMITY TO WATER, WASTEWATER, RECLAIMED WATER AND OTHER UTILITY SYSTEMS. THE CONTRACTOR SHALL COORDINATE UTILITY LOCATIONS WITH RESPECTIVE UTILITY OWNERS AND/OR CALL,"SUNSHINE ONE CALL", 1-800-432-4770 A MINIMUM OF 72 HOURS IN ADVANCE.
5. CONTRACTOR'S DAMAGE OF WINTER GARDEN UTILITY SYSTEM: THE CONTRACTOR SHALL IMMEDIATELY NOTIFY AND REPORT DAMAGE TO THE CITY OF WINTER GARDEN UTILITY DIVISION, (NO MASSAGE) PHONE # 407-656-4100.
6. IMMEDIATELY REPAIR OF DAMAGED UTILITY SYSTEM: THE CONTRACTOR SHALL IMMEDIATELY REPAIR ANY DAMAGE TO THE CITY OF WINTER GARDEN UTILITY SYSTEM AS REQUIRED BY THE UTILITY OWNER AT CONTRACTORS COST. IN CASE OF UNRESPONSIVE ACTION BY THE CONTRACTOR, THE CITY RESERVES RIGHT TO REPAIR DAMAGE. THE CONTRACTOR SHALL REIMBURSE THE CITY OF WINTER GARDEN OF ALL REPAIR COST.
7. ADVANCE NOTIFICATION OF CONSTRUCTION: THE CONTRACTOR SHALL NOTIFY CITY OF WINTER GARDEN, UTILITY DIVISION, PH.# 407-656-4100, AT LEAST SEVEN (7) CALENDAR DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY.
8. ADVANCE NOTIFICATION OF UTILITY CONNECTION: THE CONTRACTOR SHALL NOTIFY THE CITY OF WINTER GARDEN AT LEAST SEVEN CALENDAR DAYS IN ADVANCE TO SCHEDULE CONNECTIONS TO UTILITY SYSTEM.
9. UTILITY VALVE OPERATION: ONLY CITY OF WINTER GARDEN UTILITY PERSONNEL SHALL OPERATE VALVES AND FIRE HYDRANTS. THE CONTRACTOR, WHEN NEEDED, SHALL CALL THE CITY TO REQUEST VALVE OPERATIONS AT LEAST TWO (2) DAYS IN ADVANCE OF CONSTRUCTION WORK.
10. OPERATIONS INVOLVING WATER OR WASTEWATER FACILITIES INCLUDING PUMPING STATIONS: THE CONTRACTOR SHALL COORDINATE AT LEAST TWO (2) WEEKS IN ADVANCE, ANY CONSTRUCTION OPERATION THAT MAY REQUIRE THE DISCONTINUATION OF SERVICE OR OPERATION OF A FACILITY. THE CITY WILL PROVIDE PERSONNEL TO OPERATE THE CITY FACILITIES.
11. REQUIRED TESTING BY CONTRACTOR: THE CONTRACTOR SHALL NOTIFY THE CITY OF WINTER GARDEN AT LEAST TWO (2) DAYS PRIOR TO SAMPLING ACTIVITIES FOR PURPOSE OF TESTING AS REQUIRED BY THE CITY. THE CONTRACTOR SHALL NOT TEST OR SAMPLE WITHOUT OBSERVATION BY CITY INSPECTION PERSONNEL.
12. TEMPORARY OR CONSTRUCTION WATER SERVICE CONNECTIONS PROVIDED BY FIRE HYDRANT CONNECTION: THE CITY WILL PROVIDE METER ON FIRE HYDRANT. THE CONTRACTOR SHALL PROVIDE NON-REFUNDABLE ACCOUNT INITIATION FEE, A REFUNDABLE SECURITY DEPOSIT FOR THE METER APPARATUS AND PAY ALL COST FOR WATER USED.
13. ALL AS BUILT MEASUREMENTS & ELEVATIONS ARE TO BE MADE BY A LICENSED LAND SURVEYOR.

CoWG WATER SYSTEM NOTES:

1. THE CONTRACTOR SHALL PROVIDE AND INSTALL A CITY APPROVED BACKFLOW DEVICE ASSEMBLY AT EACH CONNECTION POINT TO THE CITY WATER SYSTEM.
2. REPAIRS TO NEW WATER LINES, TO OBTAIN SPECIFIED PRESSURE TEST, WILL BE ALLOWED ONLY UP TO A NUMBER EQUAL TO 10% OF THE TOTAL NUMBER OF JOINT CONNECTIONS.
3. THE CONTRACTOR SHALL HYDROSTATICALLY TEST ALL WATER MAINS AND SERVICE LATERALS AT 150 PSI FOR A TWO HOUR PERIOD. TESTING MUST BE OBSERVED BY A CITY INSPECTOR.
4. THE CONTRACTOR SHALL INSTALL WARNING TAPE OVER ALL NEW WATER MAINS. WARNING TAPE SHALL BE AS FOLLOWS: NON-DETECTABLE, SIZE 2" WITH "WATER LINE BELOW", MUST BE PLACED 8" TO 12" BELOW FINISHED GRADE ON ALL PVC WATER MAINS, LATERALS AND HEADER TEES, NUMBER 10 GAUGE TRACER WIRE SHALL BE ATTACHED TO THE TOP OF THE PIPE WITH DUCT TAPE, AT LEAST FIVE TIMES PER JOINT. THE TRACER WIRE SHALL ALSO BE ATTACHED TO ALL PVC LATERALS AND ATTACHED TO THE OUTSIDE OF EACH VALVE BOX SO THAT A PIPE LOCATOR CAN BE CONNECTED TO IT.
5. THE CONTRACTOR SHALL INSTALL WATER MAINS PER MoSS/CoWG SPECIFICATIONS. SOLVENT CEMENTED JOINTS AND THRUST BLOCKS ON PIPING SYSTEMS SHALL NOT BE ALLOWED.
6. THE CONTRACTOR SHALL INSTALL ALL WATER MAINS TO A MINIMUM DEPTH OF 36 INCHES AND A MAXIMUM DEPTH OF 42 INCHES BELOW FINAL GRADE.
7. THE CONTRACTOR SHALL INSTALL ALL SERVICE LATERALS A UNIFORM DISTANCE APART. LOCATED ON PROPERTY LOT LINE AT 90° FROM THE WATER MAIN. SERVICE LATERALS SHALL BE SEPARATELY CONNECTED TO THE WATER MAIN, NOT SPLICED TOGETHER.
8. THE CONTRACTOR SHALL CUT A "W" INTO CONCRETE CURB, LOCATED INSIDE OF A PAINTED BLUE SQUARE, LOCATED DIRECTLY IN FRONT OF EACH SERVICE LATERAL.
9. THE CONTRACTOR SHALL INSTALL CURB STOP, IN METER BOX, CURB STOP SHALL BE SET 8" BELOW FINISHED GRADE.
10. THE CONTRACTOR SHALL PROVIDE AND INSTALL IN-LINE VALVES ON WATER MAINS AT 1,000 FOOT MAXIMUM SPACING BETWEEN VALVES. VALVES SHALL BE LOCATED ON ALL TEE'S AND CROSSES. WATER MAINS SHALL BE PLACED UNDER SIDEWALKS WHERE POSSIBLE.
11. ALL WATERMAINS SHALL BE CLEANED BY PIGGING THE LINE WITH A FOAM PIG (MINIMUM OF 2 TIMES). A FULL BORE FLUSH MAY BE REQUIRED AFTER PIGGING TO ENSURE THE PIPE IS CLEAN AND READY FOR SERVICE. THE CONTRACTOR SHALL COORDINATE LINE PIGGING AND FULL BORE FLUSH WITH THE CITY INSPECTOR.
12. THE CONTRACTOR SHALL DEMONSTRATE THAT LOCATION WIRE INSTALLED OVER ALL WATER MAINS IS IN WORKING CONDITION AT TIME OF ACCEPTANCE BY THE CITY.
13. ALL NEW SUBDIVISION CONSTRUCTION SHALL INSTALL DOUBLE POTABLE WATER SERVICES AT THE PROPERTY LINES.

CoWG – WASTEWATER SYSTEM NOTES:

1. SANITARY SEWER MAINS AND SERVICES SHALL BE PVC SDR-26 (MINIMUM). FITTINGS SHALL BE SDR-26. DUCTILE IRON IS NOT APPROVED FOR SANITARY SEWERS.
2. ALL SERVICES SHALL BE 6" (MINIMUM) DIAMETER AND TERMINATE AT THE PROPERTY LINE WITH 6" CLEAN OUT. (38" TO 48" DEEP AT LOT LINE)
3. MAGNETIC TAPE MUST BE PLACED 2' ABOVE THE TOP OF PIPE FOR THE ENTIRE LENGTH OF ALL MAINS AND SERVICES.
4. ALL SANITARY MANHOLES SHALL BE PAINTED INSIDE AND OUT WITH "BITUMASTIC SUPER SERVICE BLACK", BY KOPPERS OR APPROVED EQUAL. MANHOLES RECIEVING FLOW FROM FORCE MAINS SHALL BE LINED WITH FIBERGLASS OR HDPE AT THE PRECASTERS FACILITY.
5. ALL PIPE CONNECTIONS TO PRE-CAST MANHOLES SHALL BE MADE USING A FLEXIBLE EPDM RUBBER BOOT AND STAINLESS STEEL STRAP OR CAST IN BOOT BY A-LOK, Z-LOK OR EQUAL.
6. CONNECTIONS MADE TO EXISTING MANHOLES SHALL BE CORE BORED WITH A MINIMUM 6" BORE AND CONNECTION SEALED WITH FLEXIBLE BOOT AND STAINLESS STEEL CLAMP.
7. DEAD END MANHOLES SHALL HAVE A MINIMUM OF 5 FEET OF COVER FROM FINISHED GRADE TO OUTLET PIPE INVERT.
8. ALL PRECAST SEWER MANHOLES SHALL HAVE A 4 FOOT MINIMUM HIGH BARREL CONE SECTIONS SHALL BE 3 FOOT MAXIMUM. CONCRETE DONUTS FOR EXTENDING ARE ACCEPTABLE TO RAISE MANHOLES UP TO 1 FOOT MAXIMUM.
9. THE CONTRACTOR SHALL PROVIDE AND INSTALL BALLCENTRID PLUG VALVES IN FORCE MAINS AT 1000 FOOT MAXIMUM SPACING BETWEEN VALVES. VALVES SHALL BE LOCATED AT ALL TEES AND CROSSES.
10. THE CONTRACTOR SHALL CUT A "S" INTO CONCRETE CURB LOCATED INSIDE OF A PAINTED GREEN SQUARE BOX, IN FRONT OF EACH SERVICE LOCATION.
11. THE CONTRACTOR SHALL PROVIDE TV INSPECTION OF ALL SANITARY SEWER MAINS AFTER SYSTEM IS COMPLETED, THOROUGHLY CLEANED, DRAINED AND FULLY VISIBLE. TV INSPECTION SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATIONS. FAULTY INSPECTION DUE TO POOR CONDITIONS WILL REQUIRE REINSPECTION BY CONTRACTOR.
12. THE CONTRACTOR SHALL PROVIDE A (WARRANTY) TV INSPECTION AT THE TWO YEAR IN SERVICE MILESTONE FOR EACH SYSTEM.
13. THE CONTRACTOR SHALL PROVIDE SANITARY SEWER TESTING, EXFILTRATION OR AIR, AS REQUIRED BY DESIGN ENGINEER AND SUBMIT CERTIFIED RESULTS TO THE CITY ENGINEER.
14. GRAVITY SEWERS DEPTHS SHALL NOT EXCEED 18 FEET.
15. THE DESIGN ENGINEER SHALL PROVIDE A MINIMUM OF ONE FOOT OF FREEBOARD BETWEEN THE LOWEST FINISHED FLOOR ELEVATION AND THE TOP ELEVATION OF THE WET WELL.
16. ALL PENETRATIONS INTO CONCRETE STRUCTURES SHALL BE PRE-CAST OR CORE-DRILLED.
17. WARRANTY – ALL MATERIALS & EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR SHALL BE WARRANTED FOR A PERIOD OF TWO YEARS FROM THE DATE OF FINAL ACCEPTANCE THEREOF AGAINST DEFECTIVE MATERIALS, DESIGN, AND WORKMANSHIP, UPON RECEIPT OF NOTICE FROM THE CITY OF FAILURE OF ANY PART OF THE WARRANTED EQUIPMENT OR MATERIALS DURING THE WARRANTY PERIOD, THE AFFECTED PART, PARTS, OR MATERIALS SHALL BE PROMPLY REPLACED BY THE CONTRACTOR WITH NEW PARTS OR MATERIALS AT NO EXPENSE TO THE CITY. IN THE EVENT THE CONTRACTOR FAILS TO MAKE THE NECESSARY REPLACEMENT OR REPAIRS IMMEDIATELY AFTER NOTIFICATION, THE CITY MAY ACCOMPLISH THE WORK AT THE EXPENSE OF THE CONTRACTOR.

CLOSED CIRCUIT TELEVISION (CCTV) INSPECTION OF SEWER LINES

GENERAL:

1. ALL NEW SANITARY SEWER LINES, PRIVATE OR CITY MAINTAINED, IN THE CITY OF WINTER GARDEN'S SERVICE AREA SHALL BE INSPECTED BY CLOSED CIRCUIT TV INSPECTION BY THE CONTRACTOR WITH A CITY INSPECTOR PRESENT PRIOR TO BEING ACCEPTED BY THE CITY.

REQUIREMENTS PRIOR TO INSPECTION RELEASE:

1. ALL ELEMENTS OF THE SEWER SYSTEM MUST BE INSTALLED AND BE COMPLETELY FINISHED, INCLUDING MAIN SEWER LINES, LATERALS, CLEAN OUTS, AND MANHOLES PRIOR TO CCTV INSPECTION.
2. ALL SEWER LINES SHALL BE COMPLETELY CLEANED OF ALL DEBRIS, SAND, WATER, ETC. PRIOR TO THE CCTV INSPECTION. ANY OBJECT OR MATTER THAT PREVENTS CCTV INSPECTION FROM VIEWING CONDITION OF PIPELINE IS CONSIDERED AN OBSTRUCTION REQUIRING ADDITIONAL CLEANING. WHEN CCTV VIEW IS OBSTRUCTED, INSPECTION SHALL BE TERMINATED, THE CONTRACTOR SHALL CLEAN THE SEWER SYSTEM COMPLETELY AND RESCHEDULE CCTV RE-INSPECTION WITH THE CITY.
3. A HYDRAULIC SEWER CLEANER SHALL NOT BE USED DURING THE CCTV INSPECTION. IF LINES ARE FOUND TO BE OBSCURED BY WATER OR DEBRIS DURING THE CCTV INSPECTION, THE INSPECTION SHALL BE TERMINATED AND RESCHEDULED TO A TIME WHEN SEWER CLEANING IS COMPLETE.
4. WHEN A SEWER LINE IS UNDER A PAVED AREA, THE AREA SHALL BE COMPACTED AND PRIMED BEFORE THE SYSTEM SHALL BE RELEASED FOR TV INSPECTION.

TELEVISION EQUIPMENT MINIMUM REQUIREMENTS:

1. THE CLOSED CIRCUIT TV CAMERA SHALL PRODUCE A CLEAR COLOR PICTURE ON THE MONITOR AND ON THE DVD RECORDING. THE CAMERA SHALL BE ABLE TO SHOW DETAIL TO THE POINT THAT ALL JOINTS AND ANY DEFECTS MAY BE READILY SEEN AT THE TIME OF THE INSPECTION. THE CAMERA SHALL STOP AND PAN AT EACH JOINT FOR COMPLETE 360 DEGREE INSPECTION.
2. REFER TO APPENDIX B OF THE REFERENCED STANDARDS FOR SPECIFICATION OF CLOSED CIRCUIT TELEVISION INSPECTION EQUIPMENT.
3. THE VIDEO RECORDER SHALL PRODUCE A NO NOISE STILL PICTURE, AND PROVIDE BOTH AUDIO AND VIDEO DURING THE INSPECTION.
4. A MEASURING DEVICE, APPROVED BY THE CITY, TO CHECK THE GRADE OF THE PIPE DURING THE INSPECTION, SHALL BE REQUIRED. GAUGE DEPTH, 0" TO 2" MIN. WITH 1/2" MARKINGS.
5. AUDIO OF THE INSPECTION SHALL BE SIMULTANEOUSLY RECORDED ON DVD DISC. THE AUDIO SHALL CONSIST OF ORDINARY DESCRIPTION AND COMMENTARY. A TAPE WILL BE GIVEN TO THE INSPECTOR ON SITE AT THE END OF THE DAY.

PROCEDURE FOR TELEVISING

1. THE CITY'S ENGINEERING INSPECTION DIVISION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS NOTICE PRIOR TO THE TIME PLANNED FOR THE TV INSPECTION TO COMMENCE. A DEFINITE TIME AND DATE WILL BE AGREED UPON BY THE CONTRACTOR AND INSPECTOR AT THAT TIME.
2. NO INSPECTION SHALL COMMENCE WITHOUT THE PRESENCE OF THE INSPECTOR, EXCEPT WHEN PRIOR ARRANGEMENTS HAVE BEEN MADE BETWEEN THE CONTRACTOR, INSPECTOR, AND THE CITY. TV INSPECTION SHALL BE PERFORMED BY THE CONTRACTOR AT THE EXPENSE OF THE CONTRACTOR.
3. ALL CCTV INSPECTIONS SHALL COMMENCE UP STREAM OF THE SYSTEM TO PREVENT FOREIGN SUBSTANCES FROM ENTERING A SECTION PREVIOUSLY TELEVISED. THE CAMERA SHALL BE STARTED FROM THE DOWNSTREAM MANHOLE AND PROCEED UPSTREAM IN DIRECTION OPPOSING THE NORMAL FLOW IN THE LINE. THIS PROCEDURE WILL ALLOW FOR THE VIEWING OF THE SERVICE LATERALS.
4. BEFORE THE CAMERA IS PLACED IN THE SEWER LINE, WATER WITH YELLOW OR ORANGE DYE SHALL BE PUT INTO THE UPSTREAM MANHOLE OF THE SECTION BEING TELEVISED. CAMERA WILL HAVE A GAUGE SHOWING 1/2" MARKS FROM 1/2" TO 2-1/2". THIS WILL ENABLE THE CAMERA TO DETECT ANY CHANGES IN GRADE THAT MAY BE PRESENT IN THE SYSTEM.
5. THE CCTV AND DVD RECORDER SHALL BE TURNED ON BEFORE THE CAMERA IS PLACED IN THE MANHOLE FOR INSPECTION AND SHALL NOT BE TURNED OFF UNTIL THE CAMERA IS REMOVED FROM THE MANHOLE. THE CAMERA SHALL BE MOVED THROUGH THE LINE UNDER THE CONTROL OF THE CCTV CAMERA OPERATOR. THE CAMERA SHALL BE DRAWN THROUGH THE LINE AT A RATE NOT TO EXCEED THIRTY (30) FEET PER MINUTE AND SHALL STOP AT ALL SERVICE CONNECTIONS AND PIPE JOINTS IN THE PIPELINE.
6. A DVD RECORDING SHALL BE MADE OF THE ENTIRE SYSTEM BEING TELEVISED. THIS SHALL BECOME THE PROPERTY OF THE CITY UPON COMPLETION OF THE TV INSPECTION (NOT A COPY). THE TAPE(S) SHALL BE LABELED IN SUCH A MANNER THAT STATES THE PROJECT NAME, DATE OF INSPECTION AND LINE SECTION ACCORDING TO CONSTRUCTION PLANS CONTAINED ON EACH TAPE. A WRITTEN REPORT SHALL ACCOMPANY THE DVD DISC.

CoWG RECLAIMED WATER SYSTEM GENERAL NOTES:

1. ALL PRIVATE RECLAIMED WATER SYSTEMS SHALL HAVE A CITY APPROVED BACKFLOW DEVICE ASSEMBLY AT EACH CONNECTION POINT TO THE CITY WATER SYSTEM.
2. REPAIRS TO NEW WATER LINES, TO OBTAIN SPECIFIED PRESSURE TEST, WILL BE ALLOWED ONLY UP TO A NUMBER EQUAL TO 10% OF THE TOTAL NUMBER OF JOINT CONNECTIONS.
3. ALL MAINS AND SERVICE LATERALS SHALL BE HYDROSTATICALLY TESTED AT 150 PSI FOR A TWO HOUR PERIOD.
4. WARNING TAPE, NON-DETECTABLE, SIZE 2" WITH "REUSE WATER LINE BELOW", MUST BE PLACED 8" TO 12" BELOW FINISHED GRADE ON ALL PVC WATER MAINS, LATERALS AND HEADER TEES. NUMBER 10 GAUGE TRACER WIRE SHALL BE ATTACHED TO THE TOP OF THE PIPE WITH DUCT TAPE, AT LEAST FIVE TIMES PER JOINT. THE TRACER WIRE SHALL ALSO BE ATTACHED TO ALL PVC LATERALS AND ATTACHED TO THE OUTSIDE OF EACH VALVE BOX SO THAT A PIPE LOCATOR CAN BE CONNECTED TO IT. THE CONTRACTOR SHALL DEMONSTRATE THE LOCATE WIRE TO BE IN WORKING CONDITION AT PROJECT COMPLETION.
5. THE CONTRACTOR SHALL INSTALL RECLAIMED WATER MAINS PER MoSS/CoWG. SOLVENT CEMENTED JOINTS AND THRUST BLOCKS SHALL NOT BE ALLOWED.
6. REUSE WATER MAIN SHALL BE BURIED TO A MINIMUM DEPTH OF 36" AND A MAXIMUM DEPTH 42" BELOW FINAL GRADE.
7. SERVICE LATERALS MUST BE LOCATED A UNIFORM DISTANCE APART AND ALIGNED TO PROPERTY LOT LINE AT 90° FROM THE RECLAIMED WATERMAIN.
8. CUSTOMER SERVICE LATERALS SHALL NOT BE SPLICED TOGETHER BETWEEN THE WATER MAIN AND CURB STOP.
9. THE CONTRACTOR SHALL CUT CURB A "RW" INTO CONCRETE CURB LOCATED INSIDE OF A PAINTED SQUARE (PURPLE), DIRECTLY IN FRONT OF EACH SERVICE LATERAL AND VALVE.
10. THE CONTRACTOR SHALL SET DEPTH OF CURB STOP, IN METER BOX, 8" BELOW FINISHED GRADE.
11. THE CONTRACTOR SHALL INSTALL VALVE(S) IN MAIN, NO MORE THAN 1,000 FEET APART IN BETWEEN TEES AND CROSSES. VALVES SHALL BE PROVIDED AT EACH TEE OR CROSS LOCATED IN MAIN LINE.
12. RECLAIMED WATER MAINS MAY BE LOCATED UNDER SIDEWALKS. RECLAIMED MAINS LOCATED UNDER PAVEMENT SHOULD BE MINIMIZED.
13. ALL WATERMAINS SHALL BE CLEANED BY PIGGING THE LINE WITH A FOAM PIG (MINIMUM OF 2 TIMES). A FULL BORE FLUSH MAY BE REQUIRED AFTER PIGGING TO ENSURE THE PIPE IS CLEAN AND READY FOR SERVICE. THE CONTRACTOR SHALL COORDINATE LINE PIGGING AND FULL BORE FLUSH WITH THE CITY INSPECTOR.
14. RECLAIMED WATERMAIN MAINS SHALL BE 8 INCH DIAMETER MINIMUM. 4 INCH IS ALLOWED ON DEAD END RUNS SERVING LESS THAN 20 HOMES. THE DESIGN ENGINEER SHALL SUBMIT HYDRAULIC CALCULATIONS THAT DEMONSTRATE THE PROPOSED SYSTEM WILL PROVIDE REQUIRED FLOWS AND MAINTAIN SYSTEM ABOVE MINIMUM PRESSURE. PEAK IRRIGATION RATE SHALL BE SIX(6) TIMES GREATER THAN THE AVERAGE IRRIGATION RATE OF FLOW.
15. RECLAIMED WATER SYSTEM COMPONENTS INCLUDING PIPE, VALVE BOX TOPS AND METER BOX TOPS SHALL BE RECLAIMED PURPLE IN COLOR.

CoWG – THRUST RESTRAINT TABLE

RESTRAINED FORCE MAIN PIPE TABLE

MINIMUM LENGTH(FT) TO BE RESTRAINED ON EACH SIDE OF FITTING(S)

	PIPE SIZE								
	6"	8"	10"	12"	16"	20"	24"	30"	36"
90° BEND	19	25	30	34	44	52	60	70	80
45° BEND	8	10	12	14	18	21	25	30	34
22-1/2° BEND	4	5	6	7	9	10	12	14	16
11-1/4° BEND	2	3	4	5	6	7	8	9	10
PLUG, DEAD END OR BRANCH OF TEE	40	52	63	72	93	111	130	155	178
VALVE	20	25	32	36	47	56	78	116	89

RESTRAINED WATER AND RECLAIMED PIPE TABLE

MINIMUM LENGTH(FT) TO BE RESTRAINED ON EACH SIDE OF FITTING(S)

	PIPE SIZE								
	6"	8"	10"	12"	16"	20"	24"	30"	36"
90° BEND	29	37	44	51	65	77	89	105	120
45° BEND	12	15	18	21	27	32	37	44	50
22-1/2° BEND	6	7	9	10	13	15	18	21	24
11-1/4° BEND	3	4	5	6	7	8	9	10	12
PLUG, DEAD END OR BRANCH OF TEE	59	77	93	108	138	166	194	231	265
VALVE	59	77	93	108	138	166	194	231	265

CoWG THRUST RESTRAINT NOTES:

1. THE TABLES INDICATE MINIMUM LENGTHS OF RESTRAINED JOINTS ON EACH SIDE OF FITTINGS AND CHANGES IN DIRECTION. WHERE PRACTICAL, FULL LENGTHS OF RESTRAINED PIPE SHALL BE LAID TO ACHIEVE THE REQUIRED MINIMUM RESTRAINT.
2. WHERE COMBINATIONS OF FITTINGS ARE USED, THE PIPING BETWEEN THE FITTINGS SHALL BE RESTRAINED. THE MINIMUM RESTRAINED LENGTH OF PIPE REQUIRED UPSTREAM AND DOWNSTREAM OF THE COMBINATION OF FITTINGS SHALL BE DETERMINED ON THE BASIS OF ONE EQUIVALENT FITTING (I.E., 2-45 DEGREE BENDS WILL BE CONSIDERED AS THOUGH A 90° BEND WERE LOCATED MIDWAY BETWEEN THE TWO 45° BENDS).
3. FOR PIPE THAT IS ENCASED IN POLYETHYLENE, RESTRAINED JOINTS MINIMUM LENGTHS SHALL BE INCREASED BY 50 PERCENT.
4. FOR FITTINGS OTHER THAN THOSE PRESENTED IN THE ABOVE TABLES, RESTRAINED JOINT LENGTHS SHALL BE DETERMINED IN ACCORDANCE WITH "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" BY THE DUCTILE IRON PIPE RESEARCH ASSOCIATION. RESTRAINED JOINT LENGTHS FOR A GIVEN PRESSURE RANGE SHALL BE BASED ON THE MAXIMUM PRESSURE FOR THE TEST PRESSURE RANGE, SM (SAND SILT) SOIL, 3-FEET DEPTH, LAYING CONDITION NO. 3 AND FACTOR OF SAFETY OF 1.5.
5. IN-LINE VALVES: PROVIDE MECHANICAL RESTRAINT ON EACH SIDE OF THE VALVE.
6. ALL RECLAIMED WATER PIPING SHALL BE HYDROSTATICALLY TESTED AT A PRESSURE OF 150 PSI. ALL WASTEWATER PIPING SHALL BE HYDROSTATICALLY TESTED AT A PRESSURE OF 100 PSI.

HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS

PROPOSED UTILITY	POTABLE WATER		RECLAIMED WATER*		SANITARY SEWER (GRAVITY)		SANITARY SEWER (FORCEMAIN)		STORM WATER		ACCEPTABLE VARIANCES
	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.	
POTABLE WATER	–	–	3'	12"	6'	12"	6'	12"	3'	6" A 12" B	SEE GENERAL NOTES: NO. 4 & 5
RECLAIMED WATER*	3'	12"	–	–	3'	6" A 12" B	3'	12"	–	–	
SANITARY SEWER (GRAVITY)	6'	12"	3'	6" A 12" B	–	–	–	–	–	–	
SANITARY SEWER (FORCEMAIN)	6'	12"	3'	12"	–	–	–	–	–	–	

GENERAL NOTES:

1. THE TABLE REPRESENTS THE MINIMUM SEPARATION REQUIREMENTS AS DESCRIBED IN F.D.E.P. RULES OF THE FLORIDA ADMINISTRATION CODE (F.A.C.). THESE SEPARATION REQUIREMENTS SHALL APPLY BETWEEN NEWLY PROPOSED UTILITY LINES AND EXISTING OR PROPOSED UTILITY LINES AND EXISTING OR PROPOSED UTILITY LINES.
2. * FOR THE PURPOSE OF THIS TABLE, RECLAIMED WATER SHALL MEAN UNRESTRICTED PUBLIC ACCESS REUSE WATER AS DEFINED BY F.A.C. 162-610, CHAPTER III. OTHER TYPES OF RECLAIMED WATER ARE CONSIDERED RAW SEWAGE AND SEPARATIONS LISTED FOR SANITARY SEWER SHALL APPLY.
3. ALL SEPARATION DISTANCES ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE UNLESS OTHERWISE SPECIFIED. CRITERION PRODUCING GREATER CLEARANCE SHALL BE USED.

   A – DENOTES POTABLE WATER ABOVE RECLAIMED WATER, SANITARY SEWER OR STORM WATER; OR RECLAIMED WATER ABOVE SANITARY SEWER.

   B – DENOTES POTABLE WATER BELOW RECLAIMED WATER, SANITARY SEWER OR STORM WATER; OR RECLAIMED WATER BELOW SANITARY SEWER.

   UTILITY SEPARATION – VERTICAL CLEARANCE MITIGATION
4. A. WHERE WATER AND GRAVITY SANITARY SEWER MAINS CROSS WITH LESS THAN REQUIRED VERTICAL CLEARANCE OR THE SEWER MAIN IS ABOVE THE WATER MAIN, THE SANITARY SEWER WILL BE 20 FEET OF EITHER:

   1. DUCTILE IRON PIPE, CENTERED ON THE POINT OF CROSSING, OR;
   2. CONCRETE ENCASED VITRIFIED CLAY, OR;
   3. PVC PIPE UPGRADED TO WATER MAIN STANDARDS AND PRESSURE TESTED.

   B. WHERE WATER MAINS AND STORM SEWER PIPES CROSS WITH LESS THAN REQUIRED VERTICAL CLEARANCE, THE WATER MAIN SHALL BE 20 FEET OF DUCTILE IRON PIPE CENTERED ON THE POINT OF CROSSING.

   C. SEPARATION REQUIREMENTS BETWEEN FORCE MAINS AND POTABLE WATER MAINS MUST BE MAINTAINED UNLESS APPROVED IN ADVANCE BY THE DEPARTMENT.

   UTILITY SEPARATION – HORIZONTAL SEPARATION MITIGATION
5. A. WHEN A WATER MAIN PARALLELS A GRAVITY SANITARY SEWER MAIN, A SEPARATION (MEASURED EDGE TO EDGE) OF AT LEAST SIX FEET SHOULD BE MAINTAINED. WHERE THIS SEPARATION IS NOT MET, ONE OF THE FOLLOWING MUST OCCUR.

   1. THE WATER MAIN IS LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 6 INCHES ABOVE THE TOP OF THE SEWER, OR;
   2. IF BOTH SANITARY SEWER AND POTABLE WATER MAINS ARE PROPOSED AND THE ABOVE (1.) IS NOT MET, THE SANITARY SEWER PIPES SHALL BE UPGRADED TO THE EQUIVALENT PIPE MATERIAL AS THE WATER MAIN AND PRESSURE TESTED.
   3. IF THE SANITARY SEWER IS EXISTING AND THE POTABLE WATER MAIN IS PROPOSED, THE WATER MAIN SHALL, AT A MINIMUM, BE UPGRADED TO DUCTILE IRON PIPE, CONSTRUCTED IN SEPARATE TRENCHES, LAID AT A HIGHER ELEVATION THAN THE SANITARY SEWER, AND UTILIZE STAGGERED JOINTS.

   B. SEPARATION REQUIREMENTS BETWEEN FORCE MAINS AND POTABLE WATER MAINS MUST BE MAINTAINED UNLESS APPROVED IN ADVANCE BY THE DEPARTMENT.
6. NO WATER PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SANITARY OR STORM WATER MANHOLE OR STRUCTURE.

F.E.G. PROJECT NO.
23-110
SHEET NO.
C-13
SHEET 13 OF 20

WINTER GARDEN STANDARDS INCORPORATED WITH DESIGN ENGINEERS DOCUMENTS:

THE DETAILS, NOTES AND SPECIFICATIONS SHOWN ON THIS SHEET REPRESENT THE NOTED STANDARDS OF THE CITY OF WINTER GARDEN FOR CONSTRUCTION OF PUBLIC WORKS AND UTILITY INFRASTRUCTURE. BY INCLUDING THE STANDARDS, THE DESIGN ENGINEER HAS ACKNOWLEDGED THAT THEY ARE EFFECTIVE TO THE PROJECT AND THAT DETAILS, NOTES, OR SPECIFICATIONS ARE AS PROVIDED BY THE CITY AND HAVE NOT BEEN REVISED OR MODIFIED WITHOUT WRITTEN APPROVAL FROM THE CITY ENGINEER OR UTILITY DIRECTOR.

REVISIONS

NO.	ITEM	DATE
1	Revised General Notes	4/4/14
2	Revised Water & Reuse Notes	4/4/14

CITY OF WINTER GARDEN, FLORIDA
STANDARDS AND SPECIFICATIONS
For Utilities Construction

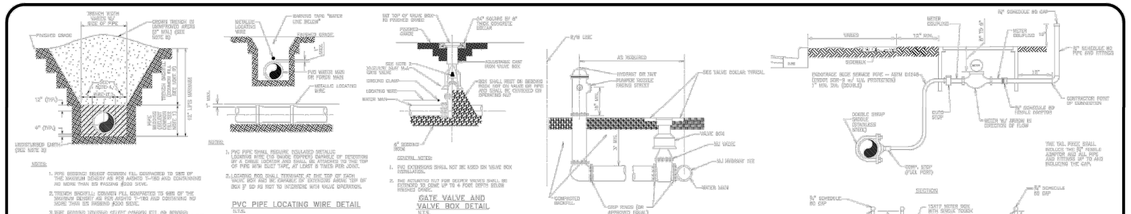
WINTER GARDEN

STANDARD DETAILS FOR UTILITIES SYSTEMS

DATE
JANUARY 2008

SHEET
1

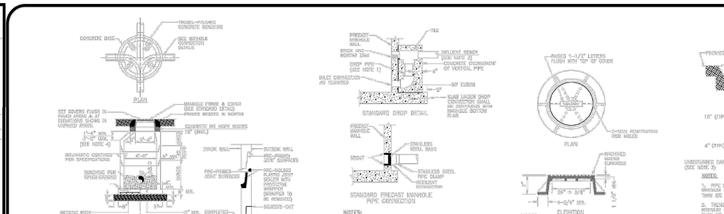
1 OF 11



CITY OF WINTER GARDEN, FLORIDA
STANDARDS AND SPECIFICATIONS
For Utilities Construction

STANDARD DETAILS FOR POTABLE WATER SYSTEMS

DATE: JANUARY 2008
SHEET: 2
2 OF 11



CITY OF WINTER GARDEN, FLORIDA
STANDARDS AND SPECIFICATIONS
For Utilities Construction

STANDARD DETAILS FOR WASTEWATER SYSTEMS

DATE: JANUARY 2008
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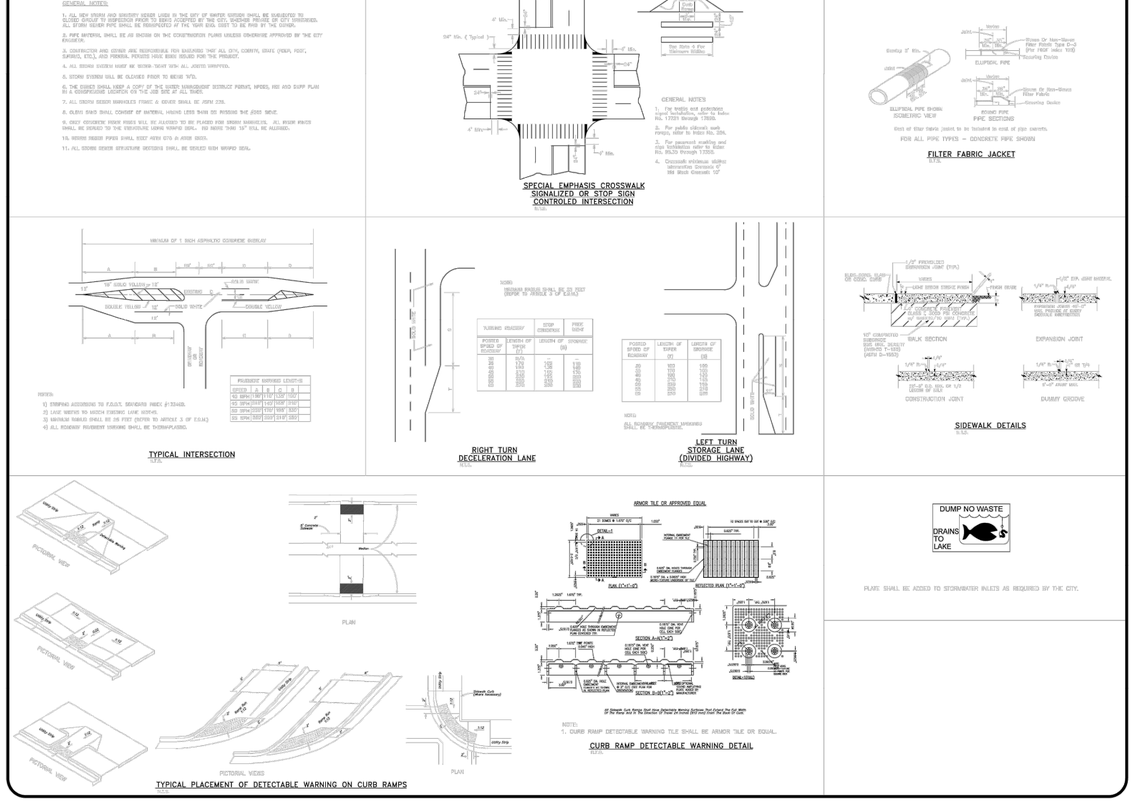
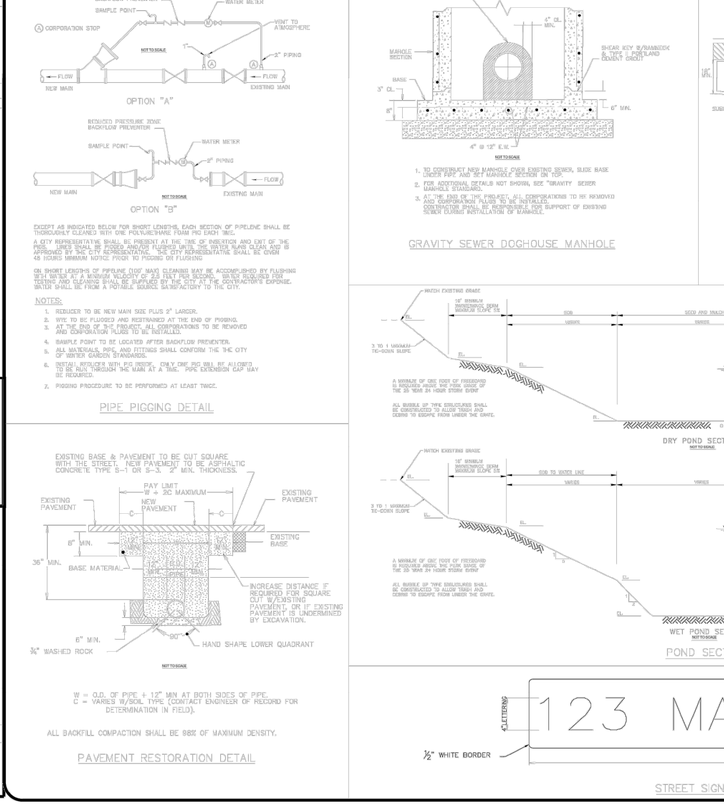


GENERAL NOTES FOR PUBLIC SERVICES

DATE: JANUARY 2008
SHEET: 9
9 OF 11



CITY OF WINTER GARDEN, FLORIDA
STANDARDS AND SPECIFICATIONS
For Roadway & Drainage Construction

STANDARD DETAILS FOR MISCELLANEOUS DETAILS

DATE: APRIL 2014
SHEET: 11
11 OF 11

260526 GROUNDING AND BONDING

A) CONDUCTOR INSULATION APPLICATIONS:

1. INSULATED CONDUCTORS:

   COPPER WIRE OR CABLE INSULATED FOR 600 V UNLESS OTHERWISE REQUIRED BY APPLICABLE CODE OR AUTHORITIES HAVING JURISDICTION

2. BARE COPPER CONDUCTORS:

   SOLID CONDUCTORS: ASTM B3

   STRANDED CONDUTORS: ASTM B8

   BONDING CONDUCTOR: NO. 4 OR NO. 6 AWG, STRANDED CONDUCTOR.

   BONDING JUMPER: COPPER TAPE, BRAIDED CONDUCTORS TERMINATED WITH COPPER FERRULES; 1-5/8" WIDE AND 1/16" THICK.

B) CONNECTOR APPLICATIONS:

1. BOLTED CONNECTORS:

   COPPER, PRESSURE TYPE WITH AT LEAST TWO BOLTS.

2. WELDED CONNECTORS:

   EXOTHERMIC-WELDING KITS OF TYPES RECOMMENDED BY KIT MANUFACTURER FOR MATERIALS BEING JOINED AND INSTALLATION CONDICTIONS.

C) ALL GROUNDING ELECTRODES TO BE COPPER-BONDED, 5/8" X 20'-0".

D) FOR ALL SIGNAL AND COMMUNICATION SYSTEMS, PROVIDE A SEPARATE GROUNDING SYSTEM COMPLYING WITH REQUIREMENTS IN TIA-607-B.

260529 SUPPORTING DEVICES

A) ALL EQUIPMENT SHALL BE FIRMLY MOUNTED USING APPROVED HANGERS ATTACHED TO STRUCTURAL PORTIONS OF THE BUILDING.

B) SUPPORTING WITH TIE WIRE IS PROHIBITED.

260553 IDENTIFICATION FOR ELECTRICAL SYSTEMS

A) PROVIDE WIRE MARKERS FOR NEW CONDUCTORS AT ALL PANELBOARDS, JUNCTION BOXES, WIREWAYS, ETC.

B) IDENTIFY ALL CONCEALED OUTLET AND JUNCTION BOXES WITH PERMANENT BLACK MARKER INDICATING PANEL AND CIRCUIT NUMBER, OR TYPE OF SYSTEMS (FIRE ALARM, TELECOMM, ETC.).

C) PROVIDE PHENOLIC NAMEPLATES FOR ALL NEW EQUIPMENT TO MATCH EXISTING EQUIPMENT IN ELECTRICAL ROOM.

D) PROVIDE PRINTED ADHESIVE LABELS FOR RECEPTACLES.

262416 PANELBOARDS

A) COORDINATE THE REQUIRED SIZE OF ALL CONDUCTORS CIRCUIT BREAKERS AND FUSES FEEDING EQUIPMENT WITH APPROVED EQUIPMENT SHOP DRAWINGS AND OWNER REPRESENTATIVES PRIOR TO ORDERING PANELBOARDS. BREAKERS AND FUSES SHALL BE SIZED PER THE NEC, THE EQUIPMENT NAME PLATE, AND MANUFACTURERS RECOMMENDATIONS.

265100 LIGHTING

A) ALL LIGHT FIXTURES SHALL BE FURNISHED COMPLETE WITH LAMPS, AND ALL NECESSARY MOUNTING HARDWARE, HANGERS AND TRIM. CONTRACTOR SHALL COORDINATE AND PROVIDE FIXTURE TRIMS AND SUPPORTS AS REQUIRED FOR THE CEILING SYSTEM BEING FURNISHED.

B) ALL FIXTURES SHALL BE U.L. LABELED FOR APPLICATION (I.E. DAMP LOCATION, WET LOCATION ETC.)

C) POLE LIGHTING FIXTURES, POLES AND BASES SHALL BE RATED FOR 140MPH STEADY WIND LOAD.

DIV. 26 - ELECTRICAL SPECIFICATIONS

260500 BASIC ELECTRICAL REQUIREMENTS

A) ALL WORK AND EQUIPMENT UNDER THIS DIVISION SHALL BE IN STRICT COMPLIANCE WITH THE APPLICABLE PROVISIONS OF THE FOLLOWING CODES AND STANDARDS:

1. LIFE SAFETY CODE - NFPA 101
2. UNDERWRITERS LABORATORIES, INC. PUBLICATIONS
3. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
4. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
5. NATIONAL ELECTRICAL CODE - NFPA 70 - 2020 EDITION
6. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
7. NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA)
8. INTERNATIONAL POWER CABLE ENGINEER'S ASSOCIATION (IPECAC)
9. NATIONAL ELECTRICAL SAFETY CODE
10. REQUIREMENTS OF LOCAL POWER CORPORATION
11. AMERICANS WITH DISABILITIES ACT (ADA)
12. FLORIDA BUILDING CODE - 8th EDITION - 2023
13. LOCAL CITY AND COUNTY CODES

B) ALL MATERIALS SHALL BE NEW, FREE FROM DEFECTS AND SHALL BE EITHER UL LABELED, UL LISTED OR BEAR THE SEAL OF A NATIONALLY RECOGNIZED ELECTRICAL TESTING LABORATORY.

C) THE WORK REQUIRED UNDER THIS DIVISION SHALL INCLUDE ALL MATERIALS, LABOR AND AUXILIARIES REQUIRED TO INSTALL A COMPLETE AND PROPERLY OPERATING ELECTRICAL SYSTEM.

D) THE CONTRACTOR SHALL FURNISH, PERFORM, OR PROVIDE ALL LABOR INCLUDING PLANNING, PURCHASING, TRANSPORTING, STORING, INSTALLING, TESTING, CUTTING AND PATCHING, TRENCHING, EXCAVATING, BACKFILLING, COORDINATION, FIELD VERIFICATION, EQUIPMENT (INSTALLATION AND SAFETY), SUPPLIES, AND MATERIALS NECESSARY FOR THE CORRECT INSTALLATION OF COMPLETE ELECTRICAL SYSTEMS (AS DESCRIBED OR IMPLIED BY THESE SPECIFICATIONS AND THE APPLICABLE DRAWINGS) IN STRICT ACCORDANCE WITH APPLICABLE CODES, WHICH MAY NOT BE REPEATED IN THESE SPECIFICATIONS, BUT ARE EXPECTED TO BE COMMON KNOWLEDGE OF QUALIFIED BIDDERS. PRIOR TO SAW CUTTING OR CORE DRILLING, THE AREA SHALL BE CERTIFIED CLEAR OF EMBEDDED ELECTRICAL WIRING.

E) THE SPECIFICATIONS (DIVISION 26) AND CONTRACT DOCUMENTS REFERS TO WORK REQUIRED IN ADDITION TO (OR ABOVE) THE MINIMUM REQUIREMENTS OF THE NEC AND APPLICABLE LOCAL CODES. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES AS A MINIMUM AND WITH THE ADDITIONAL REQUIREMENTS CALLED FOR IN THESE CONTRACT DOCUMENTS (PLANS AND SPECS).

F) SPECIAL REQUIREMENTS: SUBMIT TECHNICAL INFORMATION ON ALL EQUIPMENT INCLUDING ALL LIGHTING, DISTRIBUTION EQUIPMENT AND SPECIAL SYSTEMS. MARK UP PRINTS OF THE DESIGN DRAWINGS WITH RED PENCIL SHOWING AN ACCURATE "AS-BUILT" RECORD OF THE ENTIRE SYSTEM. TEST EACH ITEM OF EQUIPMENT.

260519 BUILDING WIRE AND CABLE

A) ALL BRANCH CIRCUITS SHALL BE COPPER WITH THWN INSULATION. MINIMUM SIZE #12 AWG.

B) FEEDERS SHALL BE THWN STRANDED COPPER. SEE FEEDER SCHEDULE FOR ADDITIONAL DETAILS.

C) COLOR CODING SHALL COMPLY WITH THE APPLICABLE NATIONAL ELECTRICAL CODE FOR GROUNDED CONDUCTORS. PHASE CONDUCTORS SHALL BE BLACK, RED, BLUE FOR 120/208V SYSTEMS.

D) ALL FEEDERS AND BRANCH CIRCUITS SHALL BE PROVIDED WITH AN EQUIPMENT GROUNDING CONDUCTOR.

E) EXTERIOR LOCATIONS:

ALL TAPS AND SPLICES SHALL BE MADE WITH COMPRESSION TYPE CONNECTORS AND COVERED WITH RAYCHEM HEAVY WALL CABLE SLEEVES (TYPE CRSM-CT, WCSM OR MCK) WITH TYPE "S" SEALANT COATING WITH SLEEVE KITS AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS OR BE TERMINATED/DISCONNECTED TO TERMINAL STRIPS IN ABOVE GRADE TERMINAL BOXES SUITABLE FOR USE.

F) INTERIOR LOCATIONS:

ALL (NON-ELECTRONIC SYSTEMS) COPPER TAPS AND SPLICES IN #8 AWG AND SMALLER SHALL BE FASTENED TOGETHER BY MEANS OF SPRING TYPE WIRE NUT CONNECTORS. ALL COPPER TAPS AND SPLICES LARGER THAN #8 AWG SHALL BE MADE WITH COMPRESSION TYPE CONNECTORS OR SPLIT BOLT CONNECTORS AND PROVIDED WITH INSULATION EQUAL TO THE CONDUCTOR INSULATION.

G) CONDUCTOR INSULATION AND MULTI-CONDUCTOR CABLE APPLICATIONS AND WIRING METHODS:

1. SERVICE ENTRANCE, FEEDER AND BRANCH CIRCUIT:

   TYPE THWN/THHN, SINGLE CONDUCTORS IN RACEWAY.

2. CORD DROPS AND PORTABLE APPLIANCE CONNECTIONS:

   TYPE SO, HARD SERVICE CORD WITH STAINLESS-STEEL, WIRE-MESH, STRAIN RELIEF DEVICE AT TERMINATIONS TO SUIT APPLICATION.

3. CLASS 1 CONTROL CIRCUITS:

   TYPE THWN/THHN, IN RACEWAY.

4. CLASS 2 CONTROL CIRCUITS:

   TYPE THWN.THHN, IN RACEWAY.

GENERAL NOTES

1. ALL BRANCH CIRCUIT CONDUCTORS WILL BE SIZED PER NEC MINIMUM. THE MINIMUM ALLOWABLE BRANCH CIRCUIT CONDUCTOR SIZE IS #12 AWG COPPER. INCREASE CONDUCTOR SIZE FOR APPLICATION PER NEC AND AS NOTED ON THE PLANS.
2. CONDUCTOR SIZES INDICATED ON CIRCUIT HOMERUNS OR IN SCHEDULES SHALL BE INSTALLED OVER THE ENTIRE LENGTH OF THE CIRCUIT UNLESS OTHERWISE NOTED ON THE DRAWINGS.
3. UP TO THREE PHASE CONDUCTORS, CORRESPONDING SWITCHLEGS AND NEUTRALS ARE ALLOWED IN THE SAME RACEWAY UNLESS INDICATED OTHERWISE ON THE DRAWINGS. DO NOT COMBINE HOMERUNS.
4. PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR IN ALL FEEDERS AND BRANCH CIRCUITS.
5. COMPLY WITH ARTICLE 210 OF THE NEC. PROVIDE A DEDICATED NEUTRAL FOR ALL 120V AND 277V CIRCUITS OR PROVIDE CIRCUIT BREAKER HANDLE TIES TO CONNECT POLES SERVING MULTI-WIRE CIRCUITS.
6. COORDINATE EXACT LOCATION OF LIGHT POLES WITH CIVIL DRAWINGS.
7. COORDINATE THE REQUIRED SIZE OF ALL CIRCUIT BREAKERS FEEDING EQUIPMENT WITH APPROVED EQUIPMENT SHOP DRAWINGS AND OWNER REPRESENTATIVES PRIOR TO ORDERING PANELBOARDS. BREAKERS SHALL BE SIZED PER THE NEC, THE EQUIPMENT NAME PLATE AND MANUFACTURERS RECOMMENDATIONS.
8. THE USE OF ANY PROCESS INVOLVING ASBESTOS OR PCB, AND THE INSTALLATION OF ANY PRODUCT, INSULATION, COMPOUND OF MATERIAL CONTAINING OR INCORPORATING ASBESTOS OR PCB, IS PROHIBITED. THE REQUIREMENTS OF THIS SPECIFICATION FOR A COMPLETE AND PROPERLY OPERATING ELECTRICAL SYSTEM SHALL BE MET WITHOUT THE USE OF ASBESTOS OR PCB.
9. VISIT THE EXISTING FACILITY AND CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AND SITE AFFECTED BY THIS WORK BEFORE SUBMITTING PROPOSALS, SO AS TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT EXECUTION OF THE WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED.
10. CONTRACTOR SHALL INCLUDE IN HIS BID THE TRANSPORT AND DISPOSAL OR RECYCLING OF ALL WASTE MATERIALS GENERATED BY THIS PROJECT IN ACCORDANCE WITH ALL RULES, REGULATIONS AND GUIDELINES APPLICABLE.
    A. CONTRACTOR SHALL COMPLY FULLY WITH FLORIDA STATUTE 403.7186 REGARDING MERCURY CONTAINING DEVICES AND LAMPS.
    B. LAMPS, BALLASTS AND OTHER MATERIALS SHALL BE TRANSPORTED AND DISPOSED OF IN ACCORDANCE WITH ALL DEP AND EPA GUIDELINES.
    C. THE CONTRACTOR SHALL PROVIDE WRITTEN CERTIFICATION THAT ALL MATERIALS WHERE RECYCLED OR DISPOSED OF PROPERLY PER THE GUIDE LINE NOTED ABOVE.
11. EXISTING CONDITIONS AND UTILITIES INDICATED ARE TAKEN FROM EXISTING CONSTRUCTION DOCUMENTS, VARIOUS SURVEYS AND FIELD INVESTIGATIONS. IT IS TO BE UNDERSTOOD THAT UNFORESEEN CONDITIONS PROBABLY EXIST AND NEW WORK MAY NOT BE FIELD LOCATED EXACTLY AS SHOWN ON THE DRAWINGS. COOPERATION WITH OTHER TRADES IN ROUTING AS DETERMINED DURING CONSTRUCTION AND AS DIRECTED BY THE ENGINEER MAY BE NECESSARY AND IT IS INTENDED THAT SUCH DEVIATIONS SHALL BE CONSIDERED A PART OF THIS CONTRACT. IT IS ALSO UNDERSTOOD THAT THE PLANS ARE NOT COMPLETELY TO SCALE. THIS CONTRACTOR IS TO FIELD VERIFY DIMENSIONS OF ALL EXISTING CONDITIONS PRIOR TO BID AND INCLUDE ANY DEVIATIONS IN THE CONTRACT.
12. LOCATE ALL EXISTING UTILITIES AND PROTECT THEM FROM DAMAGE.
13. REMOVE EXISTING POWER, LIGHTING, SYSTEMS MATERIALS AND EQUIPMENT WHICH ARE MADE OBSOLETE OR WHICH INTERFERE WITH THE CONSTRUCTION OF THE PROJECT. REINSTALL ANY SUCH POWER, LIGHTING, SYSTEMS, MATERIALS AND EQUIPMENT WHICH ARE REQUIRED TO REMAIN ACTIVE FOR THE FACILITY TO BE FULLY FUNCTIONAL.
14. ALL ITEMS REMOVED AND NOT REUSED SHALL BE TURNED OVER TO OWNER. DISCARD COMPLETE ITEMS WHICH OWNER ELECTS TO REFUSE.
15. PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. WHEN WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS, USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS AND USE APPROPRIATE PERSONNEL PROTECTION EQUIPMENT. FOLLOW ALL SAFETY PROCEDURES INCLUDED IN NFPA 70E.
16. CLEAN AND REPAIR EXISTING MATERIALS AND EQUIPMENT WHICH REMAIN OR ARE TO BE REUSED.
17. EXISTING PANELBOARDS: CLEAN EXPOSED SURFACES AND CHECK TIGHTNESS OF ELECTRICAL CONNECTIONS. REPLACE DAMAGED CIRCUIT BREAKERS AND PROVIDE CLOSURE PLATES FOR VACANT POSITIONS. PROVIDE TYPED CIRCUIT DIRECTORY SHOWING REVISED CIRCUITING ARRANGEMENT.
18. ALL NEW CIRCUIT BREAKERS WITHIN EACH EXISTING PANELBOARD SHALL BE THE SAME MANUFACTURER TYPE, STYLE AND A.I.C. RATING OF EXISTING PANELBOARD.
19. SCREENED ELECTRICAL INDICATES EXISTING TO REMAIN ACTIVE, UNLESS NOTED OTHERWISE.
20. REMOVE ALL EXISTING LIGHTING FIXTURES IN AREAS WHERE NEW LIGHTING AS SHOWN. CONNECT TO EXISTING CIRCUITS, SWITCH LEGS AND SWITCHES OR AS OTHERWISE SHOWN. GIVE EXISTING FIXTURES NOT BEING USED TO OWNER.
21. CIRCUITING AND PANELS SHOWN ARE TAKEN FROM EXISTING CONSTRUCTION DRAWINGS, VARIOUS SURVEYS, AND FIELD INVESTIGATIONS OF READILY OBSERVABLE CONDITIONS. IT IS UNDERSTOOD THAT THE INSTALLED (CONCEALED) CIRCUITING MAY DIFFER FROM THE CONDITIONS SHOWN. THE ELECTRICAL CONTRACTOR SHALL TRACE ALL EXISTING CIRCUITS IN EXISTING PANELS ASSOCIATED WITH THIS SCOPE OF WORK AND UPDATE THE EXISTING PANEL SCHEDULE AS NEEDED. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
22. PRIOR TO PASSING FINAL INSPECTION, THE CONTRACTOR SHALL PROVIDE EVIDENCE TO THE REGISTERED DESIGN PROFESSIONAL THAT THE LIGHTING CONTROL SYSTEMS HAVE BEEN TESTED TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTRUCTIONS. FUNCTIONAL TESTING SHALL BE IN ACCORDANCE WITH 2020 FL ENERGY CONSERVATION CODE SECTIONS C408.3.1.1, C408.3.1.2, AND C408.3.1.3 FOR THE APPLICABLE CONTROL TYPE.
23. DOCUMENTS CERTIFYING THAT THE INSTALLED LIGHTING CONTROLS MEET DOCUMENTED PERFORMANCE CRITERIA OF 2020 FL ENERGY CONSERVATION CODE SECTION C405 ARE TO BE PROVIDED TO THE LANDLORD WITHIN 90 DAYS FROM THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.

POWER

PB	PULL BOX. TYPE AND SIZE AS NOTED ON PLANS.	
	BRANCH CIRCUIT CONDUIT CONCEALED ABOVE CEILING OR IN WALL. MINIMUM TWO CONDUCTORS PLUS GROUND. REFER TO SPECIFICATIONS AND EQUIPMENT FEEDER SCHEDULE FOR CONDUCTOR REQUIREMENTS. ARROWS INDICATE CIRCUIT CONNECTIONS AND HOMERUNS TO PANEL AS INDICATED ON PLANS. TYPICAL FOR ALL RACEWAY TYPES, U.O.N.	
	BRANCH CIRCUIT CONDUIT CONCEALED BELOW SLAB OR UNDERGROUND	
	BRANCH CIRCUIT CONDUIT EXPOSED	
	CONDUIT CONTINUED	
	CONDUIT CAPPED OFF	
	CONDUIT RUN UP	
	CONDUIT RUN DOWN	

SYMBOL LEGEND NOTES:

1. THE COLOR OF ALL DEVICES SHALL BE SELECTED BY THE ARCHITECT. COVER PLATES SHALL BE #302 SMOOTH STAINLESS STEEL , UNLESS OTHERWISE NOTED.
2. SCREENED ELECTRICAL ITEM DENOTES EXISTING.
3. "R" BY DEVICE DENOTES EXISTING TO BE REMOVED COMPLETELY.
4. "H" BY DEVICE DENOTES DEVICE TO BE MOUNTED HORIZONTALLY.
5. ALL DIMENSIONS INDICATED ARE TO THE BOTTOM OF FIXTURE, OUTLET, OR EQUIPMENT AND SHALL BE THE DIMENSIONS USED UNLESS INDICATED OTHERWISE ON THE DRAWINGS. DIMENSIONS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS ARE TO THE BOTTOM OF THE FIXTURE, OUTLET, OR EQUIPMENT UNLESS INDICATED OTHERWISE. ALL MOUNTING HEIGHTS SHALL COMPLY WITH ADA REQUIREMENTS. VERIFY AND COORDINATE THE EXACT HEIGHT AND LOCATION OF ALL FIXTURES, OUTLETS, AND EQUIPMENT WITH ALL DOCUMENTS AND DISCIPLINES (I.E., ARCHITECTURAL, STRUCTURAL, HVAC, PLUMBING, FIRE PROTECTION, KITCHEN EQUIPMENT, MILLWORK, ETC.) PRIOR TO ROUGH-IN; ADJUST TO MEET ALL REQUIREMENTS.
6. ALL SYMBOLS INDICATED IN THIS LEGEND MAY NOT BE USED ON THE PLANS.
7. ALL WIRING DEVICES SHALL BE PROVIDED WITH A GROUNDING TERMINAL SCREW.
8. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
9. U.O.N. = UNLESS OTHERWISE NOTED.
10. A.H.J. = AUTHORITY HAVING JURISDICTION.
11. A.F.F. = ABOVE FINISHED FLOOR
12. ELECTRICAL CONTRACTOR TO PROVIDE PULL STRINGS IN ALL CONDUIT(S).

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	DESIGN SELECTION	VOLTS	LAMPS/FIXT.
SLA2	DUAL-HEAD, SITE LIGHTING, LED LUMINAIRE	DSX0 LED P6 40K 70CRI T5M MVOLT RPA NLTAIR2 PIRHN FINISH TBD: MOUNTED 30' AFG ON ROUND TAPERED ALUMINUM DIRECT BURY POLE	208V	274W LED (40K/70 CRI)
SLB	SINGLE-HEAD, SITE LIGHTING, LED LUMINAIRE	DSX0 LED P6 40K 70CRI T3M MVOLT RPA NLTAIR2 PIRHN FINISH TBD: MOUNTED 30' AFG ON ROUND TAPERED ALUMINUM DIRECT BURY POLE	208V	137W LED (40K/70 CRI)
SLC	SINGLE-HEAD, SITE LIGHTING, LED LUMINAIRE	DSX0 LED P6 40K 70CRI TFTM MVOLT RPA NLTAIR2 PIRHN FINISH TBD: MOUNTED 30' AFG ON ROUND TAPERED ALUMINUM DIRECT BURY POLE	208V	137W LED (40K/70 CRI)
SLL	SINGLE-HEAD, SITE LIGHTING, LED LUMINAIRE	DSX0 LED P6 40K 70CRI LCCO MVOLT RPA NLTAIR2 PIRHN FINISH TBD: MOUNTED 30' AFG ON ROUND TAPERED ALUMINUM DIRECT BURY POLE	208V	137W LED (40K/70 CRI)
SLR	SINGLE-HEAD, SITE LIGHTING, LED LUMINAIRE	DSX0 LED P6 40K 70CRI RCCO MVOLT RPA NLTAIR2 PIRHN FINISH TBD: MOUNTED 30' AFG ON ROUND TAPERED ALUMINUM DIRECT BURY POLE	208V	137W LED (40K/70 CRI)

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- JAMES H. McCONAUGHY, P.E. 96540

Revision	Date	Drafted:	Checked:

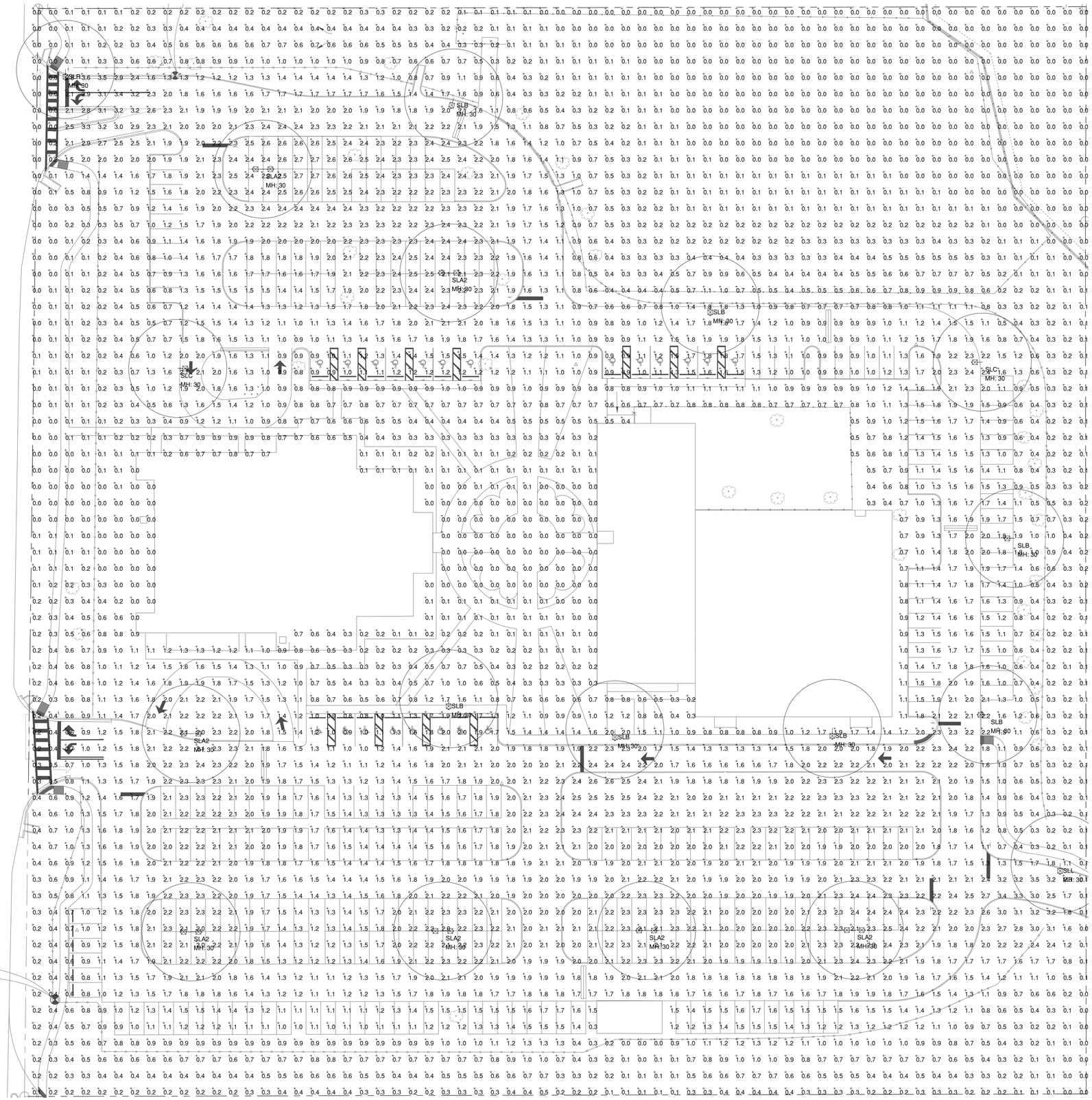
PERMIT SET - 04/14/2025

SYMBOL LEGEND, GENERAL NOTES & SPECIFICATIONS

RESURRECTION CATHOLIC CHURCH
SITE LIGHTING
1211 WINTER GARDEN VINELAND ROAD
WINTER GARDEN, FL 34787

Date: 04/14/2025
PROJ. #: 2471-68239
Sheet No.
E0.001

STATE ROAD 535 (60' R/W)
WINTER GARDEN – VINELAND ROAD



1 E1.101

PHOTOMETRICS PLAN

1"=30'-0"

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Parking Lot	Illuminance	Fc	1.80	3.5	0.6	3.00	5.83

Parking Areas Lighting Design Criteria				
TYPE	CRI	WATTAGE PER BULB	ILLUMINATION UNIFORMITY RATIOS	
	MIN	MAX	MIN (F.C)	MAX (F.C)
PARKING AREAS	65	400	0.6	3.6

Note: Requirements taken from Orange County codes.

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PHOTOMETRICS PLAN

RESURRECTION CATHOLIC CHURCH
SITE LIGHTING
1211 WINTER GARDEN VINELAND ROAD
WINTER GARDEN, FL 34787

Date: 04/14/2025
PROJ. #: 2471-66239
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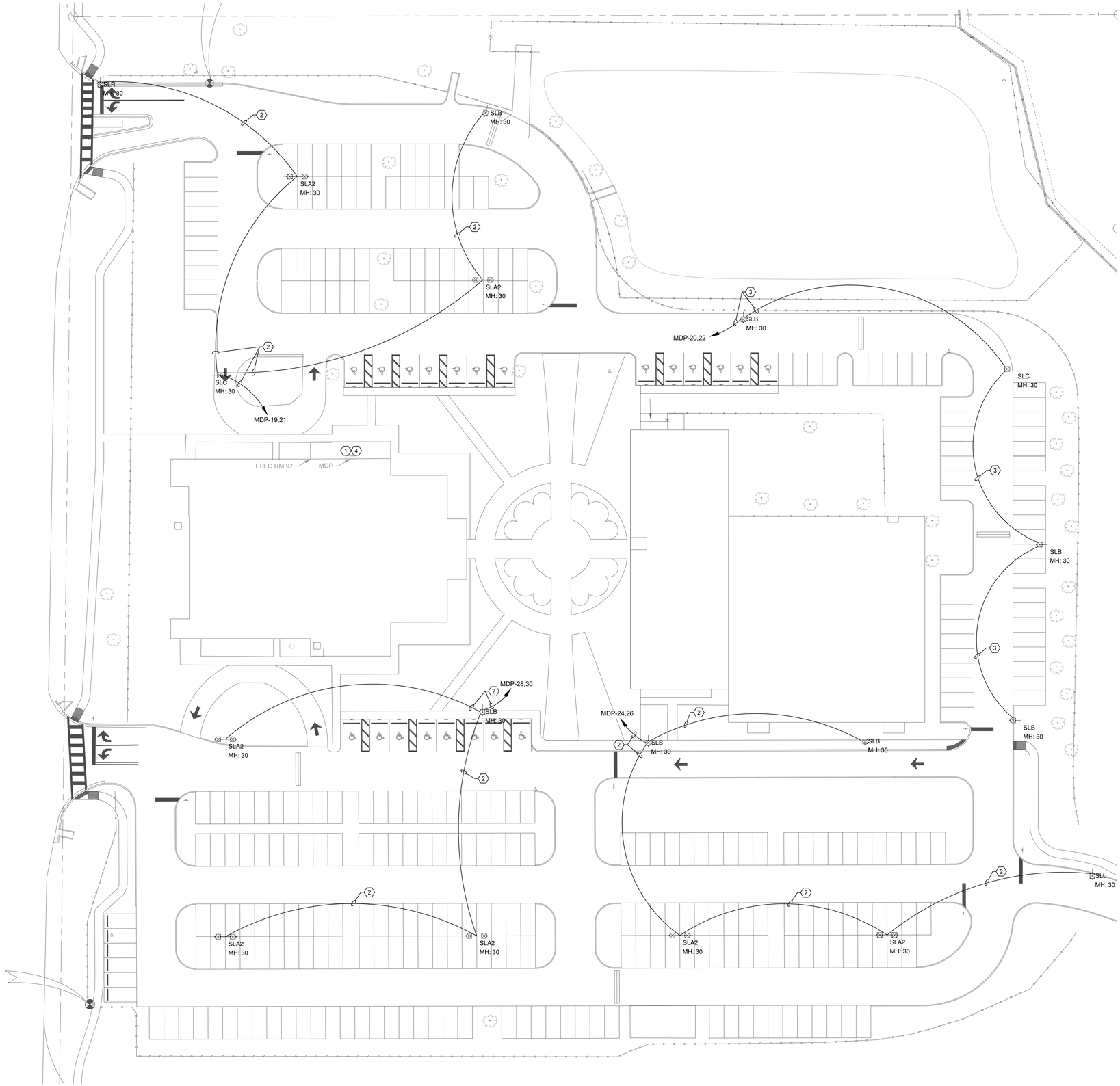

SITE LIGHTING POWER PLAN

1 / E1.201 — 1"=30'

GENERAL NOTES

1. COORDINATE DEMOLITION OF EXISTING TARIFF PARKING LOT LIGHTS WITH DUKE ENERGY PRIOR TO DEMOLITION.
2. COORDINATE FINAL POLE LOCATIONS WITH CIVIL DESIGN DRAWINGS PRIOR TO ROUGH-IN.
3. CONDUIT SHALL BE SCH 40 PVC BURIED 24" BELOW GRADE.

REFERENCE NOTES

1. LOCATION OF MDP.
2. PROVIDE (2) #8 AWG, AND (1) #8 AWG GND CONDUCTORS IN (1) 3/4" CONDUIT.
3. PROVIDE (2) #10 AWG, AND (1) #10 AWG GND CONDUCTORS IN (1) 3/4" CONDUIT.
4. PROVIDE (4) NEW 208V, SINGLE-PHASE, 20A CIRCUIT BREAKERS IN THE EXISTING MDP PANELBOARD. ENSURE CIRCUIT BREAKERS MATCH THE MAKE, MODEL, AND AIC RATING OF THE EXISTING BREAKERS. UPDATE PANEL SCHEDULE TO REFLECT NEW LOADS.

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SITE LIGHTING POWER PLAN

RESURRECTION CATHOLIC CHURCH
SITE LIGHTING
1211 WINTER GARDEN VINELAND ROAD
WINTER GARDEN, FL 34787

Date: 04/14/2025
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Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.04
5°C	41°F	1.04
10°C	50°F	1.03
15°C	59°F	1.02
20°C	68°F	1.01
25°C	**77°F**	**1.00**
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21).

To calculate L70 hours, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	Lumen Maintenance Factor
0	1.00
25,000	0.94
50,000	0.89
100,000	0.80

FAO Dimming Settings

FAO Position	% Wattage	% Lumen Output
8	100%	100%
7	93%	95%
6	80%	85%
5	66%	73%
4	54%	61%
3	41%	49%
2	29%	36%
1	15%	20%

Note: Calculated values are based on original performance package data. When calculating new values for given FAO position, use published values for each package based on input watts and lumens by optic type.

Motion Sensor Default Settings

Sensor	Unoccupied Dimmed Level	High Level (when occupied)	Photocell Operation	Dwell Time	Ramp-up Time	Dimming Fade Rate
PIR	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min
NLTAIR2 PIRHN	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min

Electrical Load

	Performance Package	LED Count	Drive Current (mA)	Wattage	Current (A) 120V	208V	240V	277V	347V	480V
Forward Optics (Non-Rotated)	P1	20	530	34	0.28	0.16	0.14	0.12	0.10	0.07
	P2	20	700	45	0.38	0.22	0.19	0.16	0.13	0.09
	P3	20	1050	69	0.57	0.33	0.29	0.25	0.20	0.14
	P4	20	1400	94	0.78	0.45	0.39	0.34	0.27	0.19
	P5	40	700	89	0.75	0.43	0.38	0.33	0.26	0.19
	P6	40	1050	136	1.14	0.66	0.57	0.49	0.39	0.29
	P7	40	1300	170	1.42	0.82	0.71	0.62	0.49	0.36
Rotated Optics (Requires L90 or R90)	P10	30	530	51	0.42	0.24	0.21	0.18	0.15	0.11
	P11	30	700	67	0.57	0.33	0.28	0.25	0.20	0.14
	P12	30	1050	103	0.86	0.50	0.43	0.37	0.30	0.22
	P13	30	1300	129	1.07	0.62	0.54	0.46	0.37	0.27

LED Color Temperature / Color Rendering Multipliers

3000K		4000K		5000K	
Lumen Multiplier	Availability	Lumen Multiplier	Availability	Lumen Multiplier	Availability
5000K	102%	Standard	92%	Extended lead-time	73%	(see note)
4000K	100%	Standard	92%	Extended lead-time	67%	(see note)
3500K	100%	(see note)	90%	Extended lead-time	63%	(see note)
3000K	96%	Standard	87%	Extended lead-time	61%	(see note)
2700K	94%	(see note)	85%	Extended lead-time	57%	(see note)

Note: Some LED types are available as per special request. Contact Technical Support for more information.

Controls Options

Nomenclature	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire, wired to the driven dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads
DS (not available on DSXB)	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost-effective alternative.
PERS or PERS7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as RSMA.	Pins 4 & 5 to dimming leads on drivers. Pins 6 & 7 are capped inside luminaire. Cannot be used with other controls options that need the 0-10V leads.
PIR	Motion sensor with integral photocell. Sensor suitable for 8 to 40' mounting height.	Luminaires dim when no occupancy is detected.	Acuity Controls nSBG	Cannot be used with other controls options that need the 0-10V leads.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Tridonic.	nLight Air nSBG	nLight AIR sensors can be programmed and commissioned from the ground using the CLAIRITY Pro app. Cannot be used with other controls options that need the 0-10V leads.
BL30 or BL50	Integrated bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output	BLC device provides input to 0-10V dimming leads on all drivers providing either 100% or dimmed (30% or 50%) control by a secondary circuit	BLC LVSCCT1	BLC device is powered off the 0-10V dimming leads, thus can be used with any input voltage from 120 to 480V

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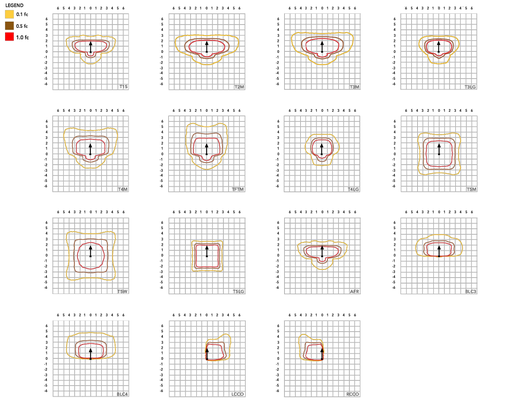
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's homepage.

Isofootcandle plots for the DSXO LED P7 40K 70CRI. Distances are in units of mounting height (20').

LEGEND
- 0.1 fc
- 0.5 fc
- 1.0 fc



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Ordering Information

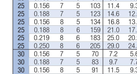
Accessories

Ordered and shipped separately.

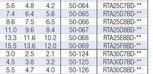
DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) [9]
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) [9]
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) [9]
DSHORT SBK	Shorting cap [9]
DSX0HS/PI	House-side shield (same package number P1-7, P10-13 in place of it)
DSXRPA (FINISH)	Round pole adapter (fit drilling, specify finish)
DSXRPA5 (FINISH)	Round pole adapter (5" drilling specify finish)
DSXSPA2 (FINISH)	Square pole adapter (fit drilling specify finish)
DSXDBXLW (FINISH)	Direct burial universal wireway (specify finish)
DSXWBXBB (FINISH)	Bird spike deterrent bracket (specify finish)

NOTES
1. Rotated optics available with packages P10, P11, P12 and P13. Must be combined with option L90 or R90.
2. 30K, 40K, and 50K available in 70CRI and 80CRI. 27K and 35K only available with 80CRI. Contact Technical Support for other possible combinations.
3. T1LG, T4LG, BLC3, BLC4, LCCO, RCCO not available with option HS.
4. T5VS, T5HO not available with P1, P2, P10 or P11 when ordered with FAO.
5. HVOLT driver operates on any line voltage from 347-480V (50/60 Hz).
6. HVOLT not available with package P1, P2 and P10 when combined with option NLTAIR2 PIRHN or option PIR.
7. XVOLT operates with any voltage between 277V and 480V (50/60 Hz).
8. XVOLT not available in packages P1, P2 or P10. XVOLT not available with fusing (SF or DF).
9. Not available with P1, P2, P10 or P11 when ordered with FAO.
10. WBA cannot be combined with Type 5 distributions plus photocell (PE7E).
11. NLTAIR2 and PIRHN must be ordered together. For more information on nLight Air 2.
12. PIR not available with NLTAIR2, PIRHN, PIR8, PIR8FC, PER7, PER7FC, FAO, BL30, BL50 and DMG. NLTAIR2 PIRHN not available with P1, P2 and P10 using HVOLT. NLTAIR2 PIRHN not available with P7, P7 and P13 using XVOLT. NLTAIR2 PIRHN not available with P1 using MVOLT.
13. PIR not available with NLTAIR2, PIR8, PER5, PER7, FAO, BL30, BL50 and DMG. PIR not available with P1, P2 and P10 using HVOLT. PIR not available with P1, P2 and P10 using XVOLT. PIR not available with P1 using MVOLT.
14. PER/PER5/PER7 not available with NLTAIR2, PIR, BL30, BL50. Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See Controls Options table on page 4.
15. FAO not available with other dimming control options NLTAIR2 PIRHN, PIR, PIR5, PIR7, PER, PER5, PER7, BL30, BL50, or DMG.
16. BL30 and BL50 are not available with NLTAIR2 PIRHN, PIR, PIR5, PIR7, PER, PER5, PER7, FAO and DMG. BL30 or BL50 must specify 120 or 277V.
17. Not available with NLTAIR2 PIRHN, PIR, PIR5, PIR7, PER, PER5, PER7, BL30, BL50 and FAO.
18. Reference Nuisance Delay Default Setting. Refer to sensor spec on page 4 sq ft see functionality.
19. Reference Controls Options table on page 4.
20. Option HS not available with T1LG, T4LG, BLC3, BLC4, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
21. CCE option not available with option BS and ECSR. Contact Technical Support for availability.
22. Not available with P1, P2 and P10 when ordered with FAO or DMG.
23. Requires luminaire to be specified with PER, PER5 or PER7 option. See Controls Table on page 4.
24. Single fuse (SF) requires 120V, 277V, or 347V. Double fuse (DF) requires 208V, 240V or 480V. XVOLT not available with fusing (SF or DF).

Shield Accessories



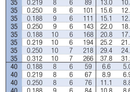
External Glare Shield (EGSR)



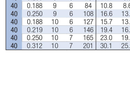
House Side Shield (HS)

Drilling

HANDHOLE ORIENTATION
(from top of pole)



Template #8



Tenon Mounting Slipfitter

Tenon O.D.	Mounting	Shank (SHK)	1 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
2-3/8"	RPA	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 390	AS3-5 320	AS3-5 490
2-7/8"	RPA	AST25-190	AST25-280	AST25-290	AST25-390	AST25-320	AST25-490
4"	RPA	AST35-190	AST35-280	AST35-290	AST35-390	AST35-320	AST35-490

Mounting Option	Drilling Template	Single	1 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS

	Minimum Acceptable Outside Pole Dimension						
SPA	#8	3.5"	3.5"	3.5"	3.5"		3.5"
RPA	#8	3"	3"	3"	3"	3"	3"
SPA5	#5	3"	3"	3"	3"		3"
RPA5	#5	3"	3"	3"	3"	3"	3"
SPA8N	#8	3"	3"	3"	3"		3"

DSX0 Area Luminaire - EPA

*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

Fixture Quantity & Mounting Configuration	Single DSX0	1 @ 180 DSX0	2 @ 90 DSX0	3 @ 90 DSX0	3 @ 120 DSX0	4 @ 90 DSX0
Mounting Type						
DSX0 with SPA	0.44	0.88	0.96	1.18	---	1.16
DSX0 with SPA5, SPA8N	0.51	1.02	1.06	1.26	---	1.29
DSX0 with RPA, RPA5	0.51	1.02	1.06	1.26	1.24	1.29
DSX0 with WBA	0.64	1.28	1.24	1.67	1.70	1.93

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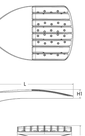
d-series

D-Series Size 0
LED Area Luminaire

Specifications

EPA:	0.44 ft² (0.04 m²)
Length:	26.18" (66.5 cm)
Width:	14.06" (35.7 cm)
Height H1:	2.26" (5.7 cm)
Height H2:	7.46" (18.9 cm)
Weight:	23 lbs (10.4 kg)



Design Select options indicated by this color background.

Fill the Tab key or mouse over the page to see all interactive elements.

Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications, with typical energy savings of 70% and expected service life of over 100,000 hours.

design|select

Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect.
*See ordering tree for details

Ordering Information

EXAMPLE: DSX0 LED P6 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX0 LED

Series	LEDs	Color temperature*	Color Rendering Index*	Distribution				Voltage	Mounting
DSX0 LED	**Forward optics**	(this section 70CRI only)	70CRI	AFR Automotive front row	T5M Type V medium			MVOLT (120V-277V) [1]	**Shipped included**
	P1 P5	30K 3000K	70CRI	T1S Type I short	T5LG Type V low glare			HVOLT (347V-480V) [1]	SPA Square pole mounting (#8 drilling, 3.5" min. SQ pole)
	P2 P6	40K 4000K	70CRI	T2M Type II medium	T5W Type V wide			XVOLT (277V-480V) [1]	RPA Round pole mounting (#8 drilling, 3" min. RND pole)
	P3 P7	50K 5000K	70CRI	T3M Type III medium	BLC3 Type III backlight control [3]			120 [6,24]	SPA5 Square pole mounting (#5 drilling 3" min. SQ pole) [4]
	P4	(this section 80CRI only, extended lead times apply)		T3LG Type III low glare [3]	BLC4 Type IV backlight control [3]			208 [6,24]	RPA5 Round pole mounting (#5 drilling 3" min. RND pole) [4]
	Rotated optics			T4M Type IV medium [3]				240 [6,24]	SPA8N Square narrow pole mounting (#8 drilling, 3" min. SQ pole)
	P10* P12*	27K 2700K	80CRI	T4LG Type IV low glare [3]	LCCO Left corner cutoff [3]			277 [6,24]	WBA Wall bracket [8]
	P11* P13*	30K 3000K	80CRI	TFTM Forward throw medium	RCCO Right corner cutoff [3]			347 [6,24]	MA Mast arm adapter (mounts on 2 3/8" OD horizontal tenon)
		35K 3500K	80CRI					480 [6,24]	
		40K 4000K	80CRI						
		50K 5000K	80CRI						

Control options	Other options	Finish (required)
Shipped installed	**Shipped installed**	DDBXD Dark Bronze
NLTAIR2 PIRHN nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc [5,11,12,15]	HS Houseside shield (black finish standard) [9]	DBLXD Black
PIR High/low, motion/ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc [5,11,12,15]	L90 Left rotated optics [1]	DNAXD Natural Aluminum
PERS NEMA twist-lock receptacle only (controls ordered separate) [16]	R90 Right rotated optics [1]	DWHXD White
PER5 Five-pin receptacle only (controls ordered separate) [16,19]	CCE Coastal Construction [21]	DDBTXD Textured dark bronze
PER7 Seven-pin receptacle only (controls ordered separate) [16,19]	HA 50°C ambient operation [22]	DBLBXD Textured black
FAO Field adjustable output [13,14]	BAA Buy American(t) Act and/or Build America Buy America Qualified	DNATXD Textured natural aluminum
BL30 Bi-level switched dimming, 30% [6,16]	SF Single fuse (120, 277, 347V) [8]	DWHGXD Textured white
BL50 Bi-level switched dimming, 50% [6,16]	DF Double fuse (208, 240, 480V) [8]	
DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) [16]	**Shipped separately**	
	EGSR External Glare Shield (reversible, field install required, matches housing finish)	
	BSDB Bird Spikes (field install required)	

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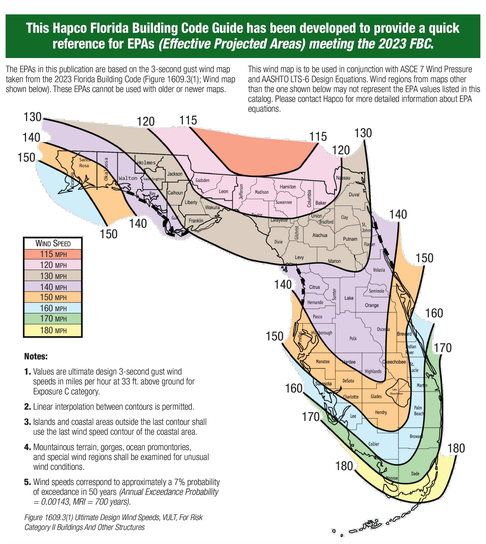
This Hapco Florida Building Code Guide has been developed to provide a quick reference for EPAs *(Effective Projected Areas) meeting the 2023 FBC.*

The EPAs in this publication are based on the 3-second gust wind map taken from the 2023 Florida Building Code (Figure 1609.3(1); Wind map shown below). These EPAs cannot be used with older or newer maps.

This wind map is to be used in conjunction with ASCE 7 Wind Pressure and AASHTO LTS-6 Design Equations. Wind regions from maps other than the one shown below may not represent the EPA values listed in this catalog. Please contact Hapco for more detailed information about EPA equations.



Notes:

1. Values are ultimate design 3-second gust wind speeds in miles per hour at 33 ft. above ground for Exposure C category.
2. Linear interpolation between contours is permitted.
3. Islands and coastal areas outside the last contour shall use the last wind speed contour of the coastal area.
4. Mountainous terrain, gorges, ocean promontories, and special wind regions shall be examined for unusual wind conditions.
5. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years *(Annual Exceedance Probability = 0.00143, MRI = 700 years).*

Figure 1609.3(1) Ultimate Design Wind Speeds, Vult, For Risk Category II Buildings And Other Structures

Shielding Factor

The table shown at right will assist you in calculating the total EPA for many of the popular luminaire configurations. Using the shielding factor to calculate total EPA prevents an over-designed pole being used, resulting in cost savings.

Luminaire Configuration		EPA		Shielding Factor		Total EPA
2 @ 180°		1.5	X	2.0	=	3.0
3 @ 180°		1.5	X	3.0	=	4.5
4 @ 180°		1.5	X	4.0	=	6.0
3 @ 120°		1.5	X	2.3	=	3.45 (Shielded)
4 @ 90°		1.5	X	3.2	=	4.8 (Shielded)

Example assumes a single luminaire EPA of 1.5.

ASCE 7 Wind Load Design Assumptions:
- Risk Cat. II, MRI = 700 yrs., Exp. And Surface Roughness Cat. "C"
- K_{zt} = 1.0, K_d = 1.0, G = 1.14, $V_{ASD} = \sqrt{0.6}V_{ULT}$ *(2024 FBC 1609.3.1)*
- C_F= Drag Coefficients calculated per AASHTO LTS-6 *(ASCE 7-16 C29.4)*
- Strength Equations per AASHTO LTS-6 Allowable Stress Increase = 1.33 *(ASCE 7-16 C29.4)*

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A Mtg. Hgt.	B Wall Thk.	C Butt Dia.	E Embed Depth	Total Len. Wt.	Maximum EPA 120	130	140	150	160	170	180	Old Catalog Number	Catalog Number
10	0.125	5	4	222	7.1	5.9	4.9	4.1	3.5	3.0	2.6	67907-031OX	RTA10B5AD-**
12	0.125	5	4	150	5.4	4.3	3.5	2.9	2.4	2.0	1.7	67907-031ZX	RTA12B5AD-**
14	0.125	5	4	109	4.0	3.1	2.4	1.9	1.5	1.2	0.9	67907-031AX	RTA14B5AD-**
16	0.125	5	4	85	2.8	2.0	1.5	1.0	0.7	-	-	67907-031BX	RTA16B5AD-**
18	0.125	5	4	72	1.7	1.1	0.6	-	-	-	-	67907-031BX	RTA18B5AD-**
18	0.156	5	4	86	2.8	2.0	1.4	0.9	0.6	-	-		RTA18S5AD-**
20	0.125	5	4	61	0.8								RTA20B5AD-**
20	0.125	6	5	106	8.4	6.8	5.7	4.8	4.1	3.5	3.0	50-001	RTA20B6BD-**
20	0.156	6	5	130	11.4	9.3	7.9	6.7	5.7	5.0	4.3	50-002	RTA20C6BD-**
20	0.188	6	5	154	14.3	11.9	10.0	8.6	7.4	6.4	5.6	50-003	RTA20D6BD-**
20	0.156	7	5	166	17.4	14.4	12.2	10.5	9.1	7.9	7.0	50-004	RTA20C7BD-**
20	0.188	7	6	197	21.5	18.0	15.3	13.2	11.4	10.0	8.8	50-005	RTA20D7BD-**
20	0.156	8	5	216	24.2	20.3	17.3	14.9	13.0	11.5	10.2	50-006	RTA20C8BD-**
20	0.188	8	6	257	29.8	25.0	21.4	18.5	16.1	14.1	12.5	50-007	RTA20D8BD-**
25	0.156	6	5	82	6.8	5.3	4.3	3.6	3.0	2.5	2.1	50-062	RTA25C6BD-**
25	0.188	6	5	97	9.0	7.3	6.0	5.1	4.3	3.6	3.1	50-063	RTA25D6BD-**
25	0.156	7	5	103	11.4	9.3	7.8	6.6	5.6	4.8	4.2	50-064	RTA25C7BD-**
25	0.188	7	5	123	14.6	12.0	10.1	8.6	7.4	6.4	5.6	50-065	RTA25D7BD-**
25	0.156	8	5	134	16.8	13.9	11.7	10.0	8.6	7.5	6.5	50-066	RTA25C8BD-**
25	0.188	8	6	159	21.0	17.5	14.8	12.7	11.0	9.6	8.4	50-067	RTA25D8BD-**
25	0.219	8	6	183	25.0	20.9	17.8	15.3	13.3	11.6	10.2	50-068	RTA25E8BD-**
25	0.250	8	6	205	29.0	24.3	20.7	17.9	15.5	13.6	12.0	50-069	RTA25F8BD-**
30	0.156	7	5	70	7.2	5.6	4.5	3.7	3.0	2.5	2.1	50-124	RTA30C7BD-**
30	0.188	7	5	83	9.7	7.7	6.4	5.3	4.5	3.8	3.2	50-125	RTA30D7BD-**
30	0.156	8	5	91	11.5	9.3	7.7	6.5	5.5	4.7	4.0	50-126	RTA30C8BD-**
30	0.188	8	6	108	14.9	12.2	10.2	8.7	7.4	6.4	5.5	50-127	RTA30D8BD-**
30	0.219	8	6	124	18.1	15.0	12.6	10.8	9.3	8.0	7.0	50-128	RTA30E8BD-**
30	0.250	8	6	139	21.3	17.7	14.9	12.8	11.0	9.6	8.4	50-129	RTA30F8BD-**
30	0.188	9	6	153	20.7	17.2	14.6	12.4	10.7	9.3	8.1	50-131	RTA30D9BD-**
30	0.250	9	6	199	28.9	24.2	20.6	17.7	15.4	13.4	11.8	50-133	RTA30F9BD-**
30	0.188	10	6	232	27.5	23.1	19.6	16.9	14.6	12.6	11.0	50-139	RTA30D10D-**
35	0.156	8	5	66	7.5	5.8	4.6	3.8	3.1	2.5	2.1	50-186	RTA35C8BD-**
35	0.188	8	6	78	10.3	8.2	6.7	5.6	4.7	3.9	3.3	50-187	RTA35D8BD-**
35	0.219	8	6	89	13.0	10.5	8.7	7.3	6.2	5.3	4.5	50-188	RTA35E8BD-**
35	0.250	8	6	101	15.6	12.7	10.6	9.0	7.7	6.6	5.7	50-189	RTA35F8BD-**
35	0.188	9	6	111	15.1	12.4	10.4	8.8	7.5	6.4	5.4	50-191	RTA35D9BD-**
35	0.250	9	6	143	22.0	18.2	15.4	13.1	11.3	9.8	8.5	50-193	RTA35F9BD-**
35	0.188	10	6	168	20.8	17.4	14.7	12.5	10.7	9.2	7.9	50-199	RTA35D10D-**
35	0.219	10	6	194	25.2	21.1	17.9	15.3	13.1	11.3	9.8	50-200	RTA35E10D-**
35	0.250	10	7	218	29.4	24.7	21.0	18.0	15.5	13.5	11.7	50-201	RTA35F10D-**
35	0.312	10	7	266	37.8	31.9	27.2	23.4	20.3	17.7	15.4	50-202	RTA35G10D-**
40	0.188	8	6	59	6.6	5.0	3.9	3.1	2.5	1.9	1.5	50-247	RTA40D8BD-**
40	0.219	8	6	67	8.9	6.9	5.6	4.6	3.7	3.1	2.5	50-248	RTA40E8BD-**
40	0.250	8	6	76	11.1	8.8	7.2	6.0	5.0	4.2	3.5	50-249	RTA40F8BD-**
40	0.188	9	6	84	10.8	8.6	7.1	5.8	4.9	4.0	3.3	50-251	RTA40D9BD-**
40	0.250	9	6	108	16.6	13.6	11.3	9.6	8.1	6.9	5.9	50-253	RTA40F9BD-**
40	0.188	10	6	127	15.7	13.0	10.8	9.1	7.7	6.5	5.4	50-259	RTA40D10D-**
40	0.219	10	6	146	19.4	16.1	13.5	11.5	9.7	8.3	7.1	50-260	RTA40E10D-**
40	0.250	10	7	165	23.0	19.2	16.2	13.8	11.8	10.1	8.7	50-261	RTA40F10D-**
40	0.312	10	7	201	30.1	25.2	21.4	18.3	15.8	13.6	11.8	50-262	RTA40G10D-**

Catalog Number System

The catalog number for Hapco poles utilizes the following identification system.

MOUNTING	HEIGHT	BUTT DIA.	BASE STYLE
R.T.A			D-
SHAFT ASSEMBLY	WALL THICK.	TOP DIA.	FINISH

Catalog Number Example -

RTA 30 D 8 B D – 01

Round Tapered Aluminum, 30' Mounting Height, .188" Wall Thickness, 8" Butt Diameter, 4.5" Top Diameter, FBC Direct Buried, Satin Aluminum Finish.

Wall Thickness
B = .125"
C = .156"
D = .188"
E = .219"
F = .250"
G = .312"

Butt Diameter
5 = 5"
6 = 6"
7 = 7"
8 = 8"
9 = 9"
1 = 10"

Top Diameter
A = 3"
B = 4.5"
C = 6"

Base Style
D = FBC Direct Buried

Finish
01 = Satin Aluminum
BA = Black Powder Coat
BH = White Powder Coat
BM = Dark Bronze Powder Coat
BV = Dark Green Powder Coat
GC = Gray Powder Coat
** = Specify Finish

EPA Note:

EPAs based on side mounted fixture(s) not exceeding the height of the pole.

Embed Note:

Embed depths shown are calculated using the weight, EPA, and wind speed combination corresponding to the maximum loads for each pole. The calculation is in accordance with Chapter 16 of the 2023 FBC. The calculation uses an assumed Class 3 Soil Type per Table 1806.2 of the 2023 FBC and assumes that backfill is done in accordance with 1807.3.3 of the 2023 FBC. Embed depths are subject to change if the weight, EPA, or wind speed changes. Please contact Hapco for help in determining the appropriate embed depth.

FLORIDA BUILDING CODE GUIDE 2023 FBC EPA's

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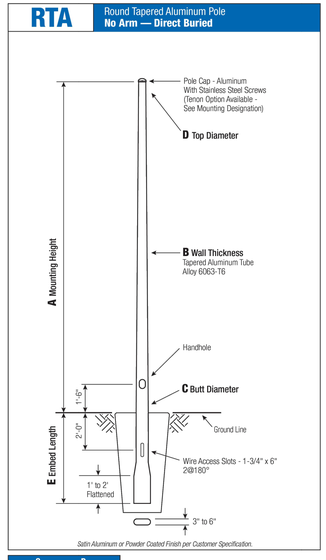
RTA - Round Tapered Aluminum Pole

No Arm

Direct Buried

RTA — Round Tapered Aluminum Pole — No Arm — Direct Buried



Satin Aluminum or Powder Coated Finish per Customer Specification.

C Butt Dia.	D Top Dia.
5	3
6	4.5
7	4.5
8	4.5
9	4.5
10	6

C and D Dimensions in Inches

Pole

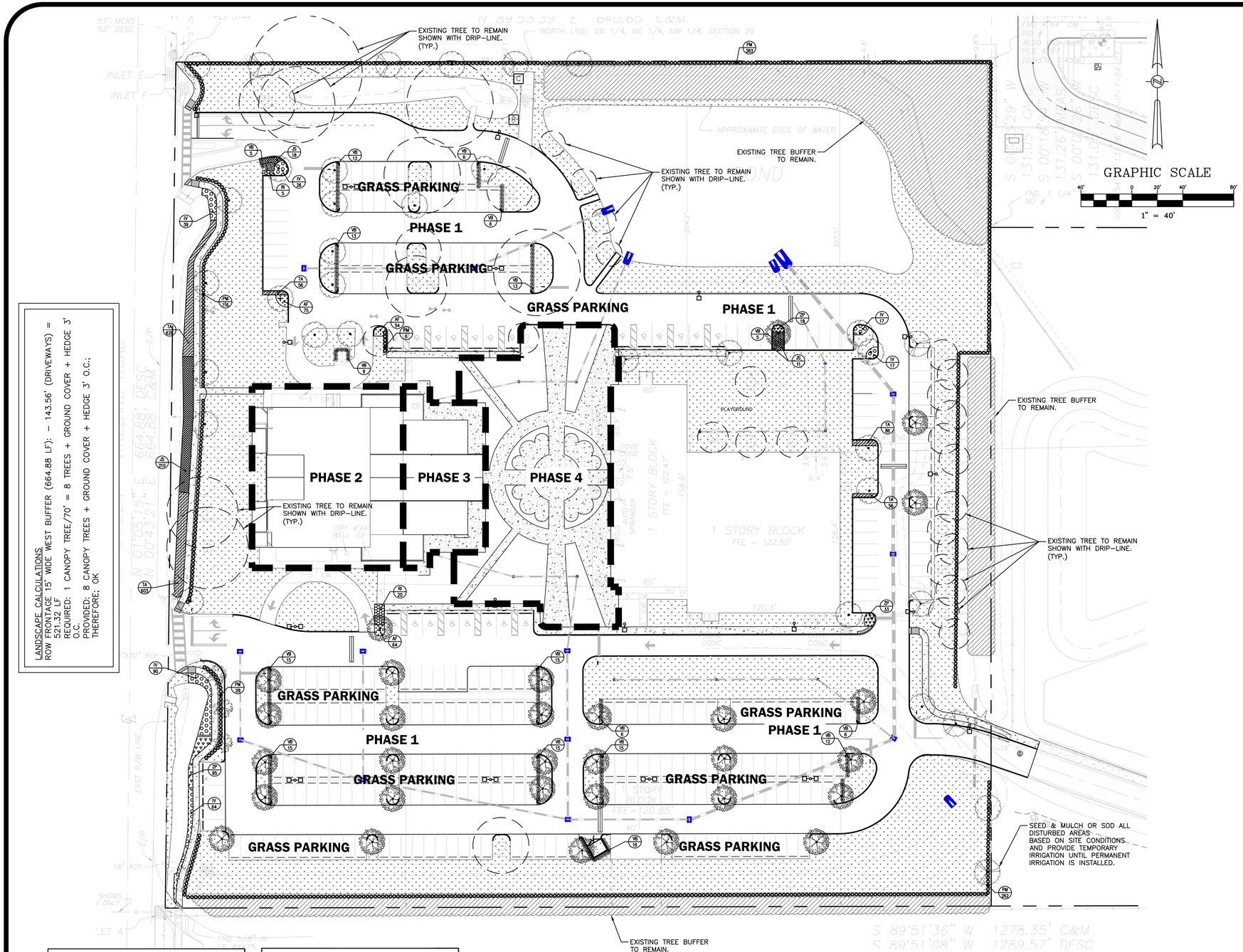
The pole shaft will be constructed of seamless extruded tube of 6063 Aluminum Alloy per the requirements of ASTM B221. The shaft assembly shall be full-length heat treated to produce a T6 temper.

Handhole

5" Butt Diameter - 2-1/2" x 5" Handhole with curved Lap Style Aluminum Door and two (2) SS Self-Tapping Attaching Screws. A Grounding Provision is provided as part of the handhole.

6" Butt Diameter - Reinforced, 5" x 5" curved Cast Aluminum Frame (Alloy 356-T6) with Aluminum Door and two (2) SS Hex Head Screws. A Grounding Provision having a 3/8" diameter hole is provided opposite the Handhole.

7"+ Butt Diameters - Reinforced, 4" x 6" curved Cast



GRAPHIC SCALE

40' 0 20' 40' 80'

1" = 40'

LANDSCAPE CALCULATIONS
ROW FRONTAGE 15' WIDE WEST BUFFER (664.88 LF): - 143.56' (DRIVEWAYS) = 521.32 LF
REQUIRED: 1 CANOPY TREE/70' = 8 TREES + GROUND COVER + HEDGE 3' O.C.
PROVIDED: 8 CANOPY TREES + GROUND COVER + HEDGE 3' O.C.;
THEREFORE; OK

FLORIDA NATIVE LANDSCAPE SCHEDULE

SYMBOL	ABR.	BOTANICAL NAME	COMMON NAME	MINIMUM SIZE	QUANTITY	REMARKS	NATIVE
CANOPY TREES							
	UA	ULMUS ALATA	WINGED ELM	10'–12' HT. 3" CAL.	30	SINGLE STRAIGHT TRUNK FLORIDA GRADE #1	Y
	AR	ACER RUBRUM	RED MAPLE	10'–12' HT. 3" CAL.	25	SPECIMEN FLORIDA GRADE #1	Y
	QL	QUERCUS LAURIFOLIA	LAUREL OAK	10'–12' HT. 3" CAL.	9	SPECIMEN	Y
UNDERSTORY TREES							
	MG	MAGNOLIA GRANDIFLORA	LITTLE GEM MAGNOLIA	8'–10' HT.	11	FLORIDA GRADE #1	Y
SHRUBS							
	VB	VIBURNUM ODORATISSIMUM	VIBURNUM	3 GAL. 36" HT. 36" O.C.	241		Y
	PM	PODOCARPUS MACROPHYLLUS	PODOCARPUS	3 GAL. 24"–36" HT. 36" O.C.	803		Y
GROUND COVER							
	RI	INDIAN HAWTHORN	RAPHIOLEPIS INDICA ALBA	3 GAL 18"X18" 30" O.C.	25	FLORIDA GRADE #1	Y
	JS	PARSONS JUNIPER	JUNIPERUS CHINENSIS	3 GAL. 24" O.C.	29	FLORIDA GRADE #1	Y
	TA	DWARF ASIATIC JASMINE	TRACHELOSPERMUM ASIATICUM	1 GAL. 12" O.C.	198		N
	ZP	COONTIE	ZAMIA PUMILA	3 GAL. 18" O.C.	147	FLORIDA GRADE #1	Y
	IV	SCHELLINGS DWARF	ILEX VOMITORIA	3 GAL. 12"X15" 24" O.C.	60	FLORIDA GRADE #1	Y
	AF	DIETES IRIDIOIDES	AFRICAN IRIS	1 GAL. 12" O.C.	193	FLORIDA GRADE #1	Y
SOD/MISC.							
	SOD	BAHIA HYBRID	QTY. BY CONTRACTOR				

X SF (X% OF ALL LANDSCAPE AREA)

*NO MORE THAN 60% OF ALL LANDSCAPE AREA CAN BE SOD.

LANDSCAPE NOTES

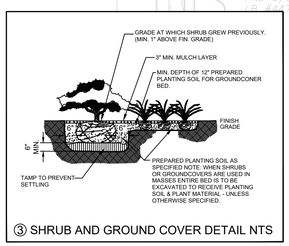
1. ALL NEW PLANTINGS SHALL BE FLORIDA GRADE #1 OR BETTER.
2. ALL NEW PLANTINGS MUST COMPLY WITH THE SIZES AND QUANTITIES SHOWN IN THE PLANT LIST. ALL PLANTS MUST COMPLY WITH THE APPLICABLE JURISDICTIONAL CODE. PER THE FLORIDA GUIDES AND STANDARDS MANUAL ALL NEW TREES SHALL HAVE THEIR CALIPER MEASURED AT 6" ABOVE GRADE FOR ALL TREES UP TO AND INCLUDING 4" CALIPER TREES AND 12" ABOVE GRADE FOR ALL LARGER TREES.
3. ALL PLANTING BEDS AND TREE SAUCERS TO HAVE ORGANIC MULCH TO A DEPTH OF 2" MINIMUM. AREAS WITH SLOPES GREATER THAN 4:1 SHALL HAVE MULCH RINGS OR TERRACED IN LONGER BEDS DESIGNED TO CAPTURE WATER AND REDUCE EROSION. TOPS OF MULCH RINGS OR TERRACES ARE TO BE LEVEL WITH RESPECT TO GRADE AND MULCH ON THE HIGH SIDE OF THE PLANTS.
4. A TWELVE MONTH WARRANTY IS TO BE PROVIDED FOR ALL NEW PLANT MATERIALS STARTING FROM THE DATE OF FINAL CERTIFICATE OF OCCUPANCY OR ACCEPTANCE BY THE OWNER. WARRANTY CAN EXCLUDE PLANTS LOST DUE TO ACTS OF GOD OR VANDALISM. REPLACEMENT OF DEAD OR UNHEALTHY PLANT MATERIALS SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR WITHIN 30 DAYS OF NOTIFICATION IN CONFORMANCE WITH THE APPROVED LANDSCAPE PLAN.
5. ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS SHALL BE FULLY SODDED ASIDE FROM DEFINED PLANTING BEDS. SOD SHALL BE FREE OF WEEDS AND NOXIOUS PESTS OR DISEASES. DISTURBED AREAS OUTSIDE OF PROJECT LIMITS SHALL BE SEEDED AND MULCHED UNLESS STEEPER THAN 5:1. PROVIDE SOD ON SLOPES STEEPER THAN 5:1. ALL DRY PONDS CAN BE SEEDED AND MULCHED ON THE BOTTOMS AND SIDE SLOPES. WET PONDS ARE TO BE SODDED DOWN TO THE BOTTOM OF DESIGNED 5:1 OR 4:1 SIDE SLOPES.
6. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE OCCURRING ON SITE OR ADJACENT AREAS, INCLUDING, BUT NOT LIMITED TO BUILDINGS, PAVING, UTILITIES, ETC., WHICH IS CAUSED BY PREPARING OR INSTALLING ANY AND ALL PLANT MATERIAL.
7. GRADE, DRESS AND SOD OR SEED AREAS THAT HAVE BEEN DISTURBED AS SOON AS POSSIBLE TO PREVENT EROSION.
8. ALL PLANT MATERIAL SHALL BE SET BACK FROM THE BACK OF CURBS OR PAVEMENT. SET TREES 3 FEET BACK FROM CURBS.
9. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING IF THERE ARE ANY INVASIVE OR EXOTIC TREES LOCATED ON THE SITE AND IS REQUIRED TO REMOVE ALL INVASIVE SPECIES PER THE LOCAL JURISDICTION'S INVASIVE SPECIES LIST LOCATED IN THEIR CODE OF ORDINANCES. GENERAL CONTRACTOR TO CONFIRM WITH THE LANDSCAPE INSTALLER THAT NO INVASIVE OR EXOTIC PLANT MATERIALS EXIST ON SITE. INFORM LANDSCAPE ARCHITECT IF ANY OF THESE PLANTS EXIST.
10. ANY PRUNING OF EXISTING TREES OR VEGETATION TO REMAIN AS A LANDSCAPE ELEMENT MUST BE CONDUCTED BY A CERTIFIED ARBORIST HOLDING A CURRENT CREDENTIAL WITH THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA). ALL PRUNING SHALL CONFORMING TO THE ANSI A300 STANDARDS, PART 1; PRUNING. THE SPECIFICATIONS FOR PRUNING SHALL BE DETERMINED BY THE CERTIFIED ARBORIST OR A PERSON QUALIFIED TO CREATE PRUNING SPECIFICATIONS ACCORDING TO THE ANSI STANDARD. THE GREATEST EMPHASIS IN PRUNING SHALL BE THE SAFETY, HEALTH AND WELFARE OF THE TRAVELING OR PEDESTRIAN TRAFFIC ESPECIALLY AS IT RELATES TO PEOPLE OR PROPERTY WITHIN THE FAILURE FOOTPRINT OF THE TREE OR VEGETATION TO BE PRUNED. WHEN THERE ARE EXISTING TREES OR VEGETATION TO REMAIN, CONTRACTOR SHALL EMPLOY A CERTIFIED TREE SURGEON TO SELECTIVELY PRUNE AND TRIM ALL EXISTING PLANT MATERIALS TO PROVIDE A BALANCED APPEARANCE WHILE ALSO ELIMINATING ANY INTERFERENCE WITH THE NEW CONSTRUCTION OR SAFETY, VISIBILITY CORRIDORS.
11. IRRIGATION (100% COVERAGE) SHALL BE PROVIDED IN ALL NEWLY PROPOSED PLANTING AREAS IN ACCORDANCE WITH THE JURISDICTIONAL LAND DEVELOPMENT CODE. SEE SHEET L–2, IRRIGATION PLAN FOR SPECIFICS.
12. IN THE EVENT OF A DISCREPANCY BETWEEN THE PLANT LIST AND THE ACTUAL NUMBER OF PLANTS SHOWN ON THE PLAN, THE PLAN SHALL CONTROL. THE LANDSCAPE CONTRACTOR SHALL NOTIFY HORIZON CIVILSCAPE SOLUTIONS OF ANY DISCREPANCY PRIOR TO ISSUANCE OF BIDS.

LANDSCAPE CALCULATIONS

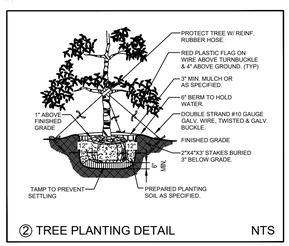
SOUTH BUFFER 15' WIDE (648.95 LF):
REQUIRED: 1 CANOPY TREE/70' = 8 TREES + GROUND COVER + HEDGE 3' O.C.
PROVIDED: 8 CANOPY TREES + GROUND COVER + HEDGE 3' O.C.; THEREFORE; OK

PARKING LOT LANDSCAPE CALCULATIONS

REQUIRED: ONE CANOPY TREE PER TEN PARKING SPACES. NO PARKING ROW SHALL EXTEND MORE THAN 12 SPACES WITHOUT A TREE ISLAND BREAK
PARKING SPACE TOTAL: 306 SPACES/10 = 30.6 OR 31 TREES REQUIRED
PROVIDED: 36 CANOPY TREES + 22 EXISTING CANOPY TREE + HEDGE 3' O.C.; THEREFORE; OK



③ SHRUB AND GROUND COVER DETAIL NTS



② TREE PLANTING DETAIL NTS

CONSTRUCTION PLANS
RESSURECTION CATHOLIC CHURCH
1211 WINTER GARDEN VINELAND ROAD
WINTER GARDEN, FLORIDA

HORIZON CIVILSCAPE SOLUTIONS
LANDSCAPE ARCHITECTURE AND LAND PLANNING

3295 STANDING PEACHTREE TRAIL,
KENNESAW, GA
(404)-916-1709

NO:	DATE:	REVISION	BY:
1	10/27/2025	PER CITY OF WINTER GARDEN	SH

THIS ITEM, INCLUDING ANY BOUND SHEETS, HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY RICK ABT ON MONTH #, 2024 USING A DIGITAL SIGNATURE.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

RICK ABT
FLORIDA RLA #1321

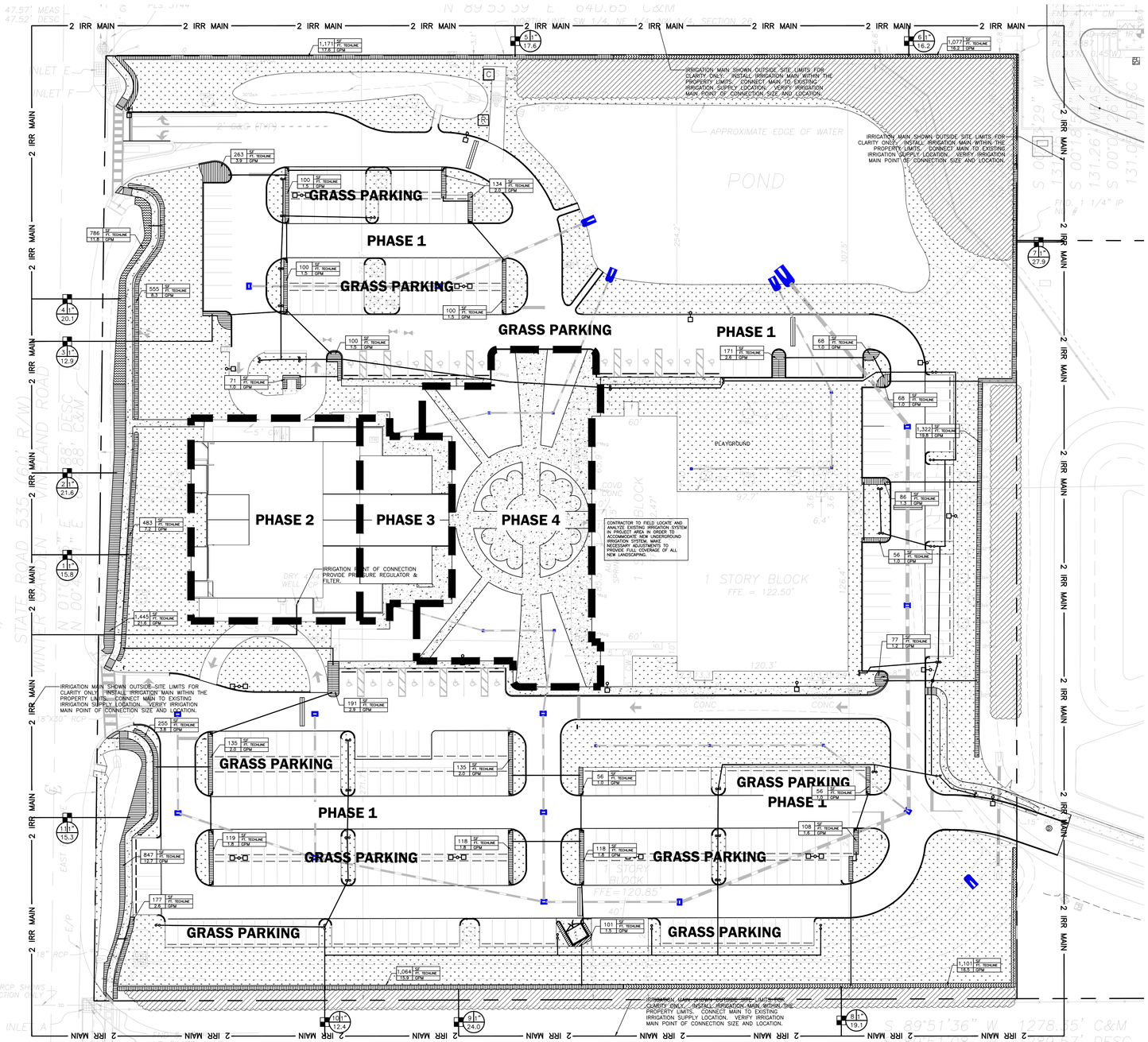
REGISTERED LANDSCAPE ARCHITECT
RICHARD T. ABT
LA 1321
STATE OF FLORIDA

PROJECT # HC24-025

SITE LANDSCAPE PLAN

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
RTA	SMH	RTA/SMH	RTA

DATE 04/17/2025
SCALE 1" = 40'
SHEET L-1
OF



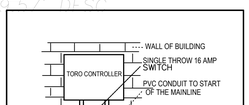
IRRIGATION NOTES:

1. CONTRACTOR SHALL INSTALL A COMPLETE IRRIGATION SYSTEM WHICH PROVIDES 100% COVERAGE OF ALL PLANTED AREAS. PROVIDE ALL PIPING, VALVES, VALVE BOXES, & WIRING AS REQUIRED FOR A COMPLETE & OPERATIONAL IRRIGATION SYSTEM.
2. ALL IRRIGATION PIPING WHICH IS LOCATED UNDER PAVEMENT SHALL BE ENCASED IN A SLEEVE TWO SIZES LARGER THAN THE IRRIGATION LINE.
3. CONTRACTOR TO PROVIDE A DOUBLE DETECTOR CHECK VALVE AT THE POINT OF WATER SERVICE IN ADDITION TO AN IRRIGATION METER. COORDINATE LOCATION WITH OTHER UTILITIES & GENERAL CONTRACTOR.
4. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY & ALL PERMITS REQUIRED FOR THE INSTALLATION OR CONSTRUCTION OF THE WORK INCLUDED IN THIS CONTRACT.
5. COORDINATE LOCATION OF IRRIGATION CONTROLLER WITH OWNER & GENERAL CONTRACTOR.
6. PROVIDE A RAIN SWITCH EQUIVALENT TO TORO RAIN SWITCH #850-74. MOUNT ON BUILDING IN AN INCONSPICUOUS LOCATION EXPOSED TO NORMAL RAINFALL & PER MFRS. SUGGESTIONS.
7. OBTAIN INSPECTION & APPROVAL OF ALL BURIED PIPING PRIOR TO BACKFILLING.
8. ADJUST DESIGN OF SYSTEM WHERE NECESSARY TO AVOID CONFLICTS IN THE FIELD WITH LANDSCAPING OR UTILITY LINES.
9. IRRIGATION CONTROLLER IS HUNTER IRRIGATION CONTROLLER SIZED APPROPRIATELY TO SUPPORT THE SYSTEM DESIGN. GET APPROVAL FROM OWNER PRIOR TO IMNSTALLATION. COORDINATE WITH CONTRACTOR FOR POWER REQUIREMENTS AND CONFIRM LOCATION WITH OWNER.
10. PROGRAM IRRIGATION CONTROLLER TO PROVIDE 0.5 INCH OF WATER PER WEEK. SCHEDULE HEADS TO OPERATE DURING MORNING HOURS.
11. ALL MAINLINE PIPING SHALL BE BURIED TO A MINIMUM DEPTH OF 18" OF COVER. ALL LATERAL PIPING SHALL BE BURIED TO A MINIMUM DEPTH OF 12" OF COVER.
12. THROTTLE ALL VALVES ON SHRUB LINES AS REQUIRED TO PREVENT FOGGING.
13. ALL CONTROL WIRE SPLICES SHALL BE MADE IN VALVE BOXES USING SNAP-TITE CONNECTORS & SEALANT.
14. THE CONTRACTOR SHALL PREPARE AN AS-BUILT DRAWING SHOWING ALL IRRIGATION INSTALLATIONS.THE DRAWING SHALL LOCATE ALL VALVES & MAINLINES BY SHOWING EXACT MEASUREMENTS FROM HARD SURFACES OR STRUCTURES.
15. ANY PIPING SHOWN OUTSIDE THE PROPERTY LINE OR RUNNING OUTSIDE A IRRIGATION AREA IS SHOWN THERE FOR CLARITY ONLY. ALL LINES SHALL BE INSTALLED ON THE PROPERTY & INSIDE THE IRRIGATIOND AREAS.
16. ALL WORK SHALL BE GUARANTEED FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE AGAINST ALL DEFECTS IN EQUIPMENT & WORKMANSHIP.
17. ELECTRICAL SERVICE TO ALL EQUIPMENT SHALL BE PROVIDED TO A JUNCTION BOX AT THE EQUIPMENT LOCATION BY OTHERS.
18. ALL IRRIGATION SLEEVES ARE TO HAVE BEEN INSTALLED BY GENERAL CONTRACTOR AT TIME OF UTILITY CONSTRUCTION.

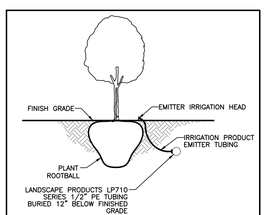
IRRIGATION LEGEND

- DRIPLINE ZONE VALVE
- DRIPLINE ZONE 12" ON CENTER
- SOD AREA
- C — CONTROLLER
- R — RAIN SENSOR
- PVC SLEEVE-2 SIZES LARGER
- VALVE ZONE NO. — VALVE SIZE — VALVE GPM

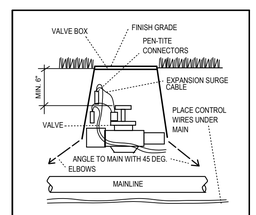
TOTAL IRRIGATED AREA = 12,846 SF
REQUIRED IRRIGATION = 0.5"/WEEK
TOTAL IRRIGATION DEMAND = 4,003 GAL/WEEK = 572 GPD
IRRIGATION TO BE PROVIDED THRU 1" IRRIGATION METER



⑥ CONTROLLER DETAIL NTS



⑤ DRIP EMITTER NTS



② ELECTRIC VALVE DETAIL NTS

SITE IRRIGATION PLAN

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
RTA	SMH	RTA/SMH	RTA

CONSTRUCTION PLANS
RESSURECTION CATHOLIC CHURCH
1211 WINTER GARDEN VINELAND ROAD
WINTER GARDEN, FLORIDA

HORIZON CIVILSCAPE SOLUTIONS
LANDSCAPE ARCHITECTURE AND LAND PLANNING

3295 STANDING PEACHTREE TRAIL,
KENNESAW, GA
(404)-916-1709

NO.	DATE	REVISION
1	10/27/2025	PER CITY OF WINTER GARDEN

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RICK ABT
FLORIDA RLA #1321

REGISTERED LANDSCAPE ARCHITECT
RICHARD T. ABT, JR.
LA 1321
STATE OF FLORIDA

PROJECT # HC24-025
DATE 04/17/2025
SCALE 1" = 40'
SHEET L-2
OF

Resurrection Catholic Church

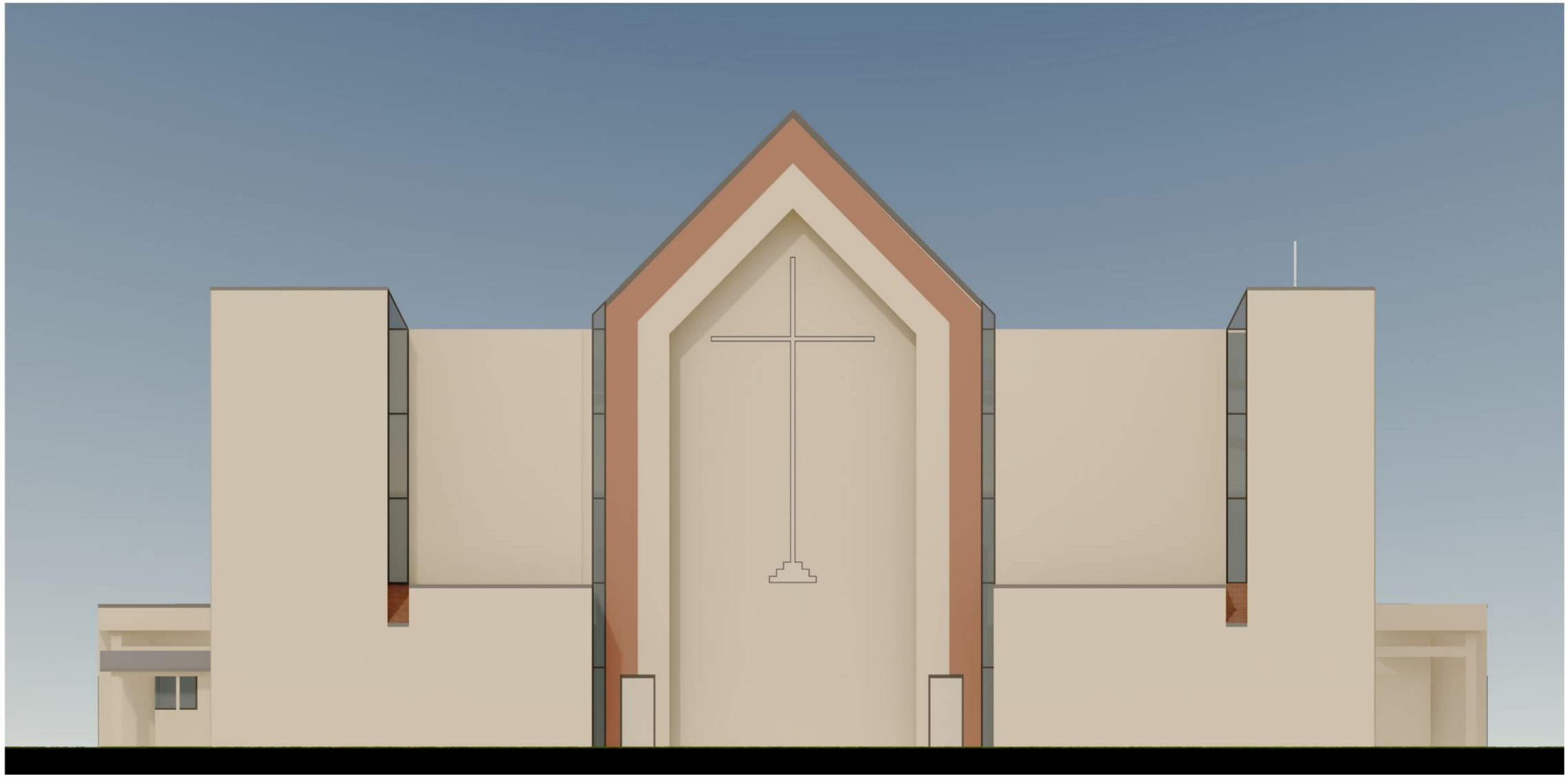
Resurrection
Catholic Church
Serving Others We Are Serving God

East Exterior Elevation

Winter Garden, FL

HOUSEMAN
ARCHITECTURE
23-040 10/14/25

Resurrection Catholic Church



Resurrection
Catholic Church
Serving Others We Are Serving God

West Exterior Elevation

Winter Garden, FL

HOUSEMAN
ARCHITECTURE
23-040 10/14/25

Resurrection Catholic Church

Resurrection
Catholic Church
Serving Others We Are Serving God

North Exterior Elevation

Winter Garden, FL

HOUSEMAN
ARCHITECTURE
23-040 10/14/25

Resurrection Catholic Church

Resurrection
Catholic Church
Serving Others We Are Serving God

South Exterior Elevation

Winter Garden, FL

HOUSEMAN
ARCHITECTURE
23-040 10/14/25

CITY OF WINTER GARDEN

DEVELOPMENT REVIEW COMMITTEE

300 West Plant Street - Winter Garden, Florida 34787-3011
(407) 656-4111

M E M O R A N D U M

TO: KELLY CARSON, PLANNING DIRECTOR
FROM: DEVELOPMENT REVIEW COMMITTEE
DATE: JANUARY 23, 2026
SUBJECT: REVIEW OF MAJOR SITE PLAN – RESURRECTION CATHOLIC CHURCH
1211 WINTER GARDEN VINELAND ROAD

Pursuant to your request, we have reviewed the revised site plan dated 1/13/26 (stamped received by Planning 1/14/26) for compliance with the City's stormwater and site requirements. The plan proposes a 4,470 s.f. addition to the 39,040 s.f. existing church on the 9.84 acre C-2 zoned property with associated parking, utility and stormwater improvements. This was submitted in response to our review of 12/01/25 and DRC meeting of 6/18/25 where it was referred to staff review only.

ENGINEERING COMMENTS

We again recommend approval of the site plan, subject to approval by all other departments and the following conditions and comments.

1. Planning Department shall review and comment on proposed uses, parking, setbacks, landscaping, buffering, lighting and signage requirements. **Planning to address the extensive use of grass parking.**

2. General Requirements (as noted):
    a. All gravity sanitary pipe and fittings shall be SDR 26.
    b. All compaction shall be 98% of the modified proctor maximum density (AASHTO T-180).
    c. As-built record drawings shall comply with City of Winter Garden requirements available on-line (note on plan).
    d. All Storm (>12") and Sanitary lines (>6") shall be inspected by CCTV prior to completion.
    e. Use City Standard Detail sheets for utilities and public works in future submittals (see City website).
    f. If Thermoplastic pipe is used it shall meet all City material and installation requirements as specified in the City's Standards & Specifications including Class I bedding, HP polypropylene pipe (**not HDPE; N-12**), laser profiling, installation per ASTM D2321, etc. (see under on-line forms on website).
    g. All utilities shall be underground pursuant to Code (Sec. 18-33) including electrical power, cable, telephone, etc.

3. All utilities shall conform to Chapter 78 of the City Code. Impact fees will be required for any utility connections and shall be paid prior to issuance of building permit and City execution of FDEP permit applications. The site shall be served by City water, sewer and reuse. All utilities required for the development shall be run to the site at the Developer's expense, including potable water, reclaimed water and sanitary sewer. 100% of all required water, irrigation and sewer impact fees shall be paid prior to City execution of FDEP permits and issuance of site or building permits.

    No utility plans were shown. *Per the response dated 11/4/25, no new utilities are proposed*.

4. All on-site utilities shall be privately owned and maintained as well as the stormwater system.

5. Buildings over 6,000 s.f. will require fire sprinklers. All work downstream of the POS shall be performed by a licensed fire sprinkler contractor. Coordinate fire protection review and approval with the Fire and Building Departments.

6. Streetlighting both internally and on all street frontages (if not existing) is required pursuant to City Code – dark skies lighting is required. A photometric plan has again been provided for review by Planning Department.

7. Tree Removal Permit issued by the City of Winter Garden Building Department may be required prior to final plan approval. Coordinate with Planning & Building Departments.

8. Minimum 5' wide concrete sidewalks shall be constructed along all street frontages pursuant to Code. Any damaged, broken or cracked sections (including existing curbs and pavement) shall be replaced prior to issuance of certificate of occupancy.

9. Sheet C-9 – Paving, Grading & Drainage Plan:
    a. **Per the 6/18/25 DRC meeting, this phase is to address the existing drainage problem at the south & southwest area of the property: the existing ditch needs to be cleaned out to provide positive drainage. Callouts for this work have been included and will be checked during construction for compliance.**

10. Permit modification from SJRWMD is acknowledged.

PLANNING COMMENTS

11. Per Section 118-1387(h)(4) of City Code paved areas may be reduced in part or in whole by approval of the city commission after review by the planning and zoning board. As a major site plan this will require final approval from the City Commission, however, the request will need to be presented to the Planning & Zoning Board.

12. Note: All signage shall adhere to City Code Chapter 102 – Signs.

STANDARD GENERAL CONDITIONS

13. The Owner is responsible for meeting all provisions of ADA and Florida Accessibility Code.

14. All work shall conform to City of Winter Garden standards and specifications.

15. Fencing, shall meet all City requirements for height, type, etc. Chain link fencing, if used, shall be vinyl coated per Code.

16. The City of Winter Garden will inspect private site improvements only to the extent that they connect to City owned/maintained systems (roadways, drainage, utilities, etc.). It is the responsibility of the Owner and Design Engineer to ensure that privately owned and maintained systems are constructed to the intended specifications. The City is not responsible for the operation and maintenance of privately owned systems, to include, but not be limited to, roadways, parking lots, drainage, stormwater ponds or on-site utilities.

17. The Contractor is responsible for the notification, location and protection of all utilities that may exist within the project limits.

18. No fill or runoff will be allowed to discharge onto adjacent properties; existing drainage patterns shall not be altered. The applicant should note that if approval is granted, the City of Winter Garden is not granting rights or easements for drainage from, or onto, property owned by others. Obtaining permission, easements or other approvals that may be required to drain onto private property is the

Owner/Developer's responsibility. Should the flow of stormwater runoff from, or onto adjacent properties be unreasonable or cause problems, the City will not be responsible and any corrective measures required will be the responsibility of the Owner. Site construction shall adhere to the City of Winter Garden erosion and sediment control requirements as contained in Chapter 106 - Stormwater. If approval is granted by the City of Winter Garden, it does not waive any permits that may be required by federal, state, regional, county, municipal or other agencies that may have jurisdiction.

19. After final plan approval, a preconstruction meeting will be required prior to any commencement of construction. The applicant shall provide an erosion control and street lighting plan at the preconstruction meeting and shall pay all engineering review and inspection fees prior to construction. Inspection fees in the amount of **2.25%** of the cost of all site improvements shall be paid prior to issuance of the building permit.

Additional comments may be generated at subsequent reviews
Please review this information and contact our office if you have any questions. Thank you.

END OF MEMORANDUM

THE CITY OF WINTER GARDEN

CITY COMMISSION AGENDA ITEM

From: Kelly Carson, Planning Director

Via: City Manager Jon C. Williams

Date: February 4, 2026 **Meeting Date:** February 12, 2026

Subject: 13905 W Colonial Drive (RV Park Office Building)
Minor Site Plan Approval
PARCEL ID# 23-22-27-0000-00-002

Issue: The applicant is requesting Site Plan Approval for the property located at 13905 W Colonial Drive.

Discussion: The applicant is requesting site plan approval to demolish the existing 1,832 square foot 2-story office building and construct a new 1,832 square foot single-story office building.

The 26.87 +/- acre subject property is designated COM (Commercial) on the City's Future Land Use Map, zoned C-2 (Arterial Commercial District) and located in the West State Road 50 Overlay District.

Recommended Action:

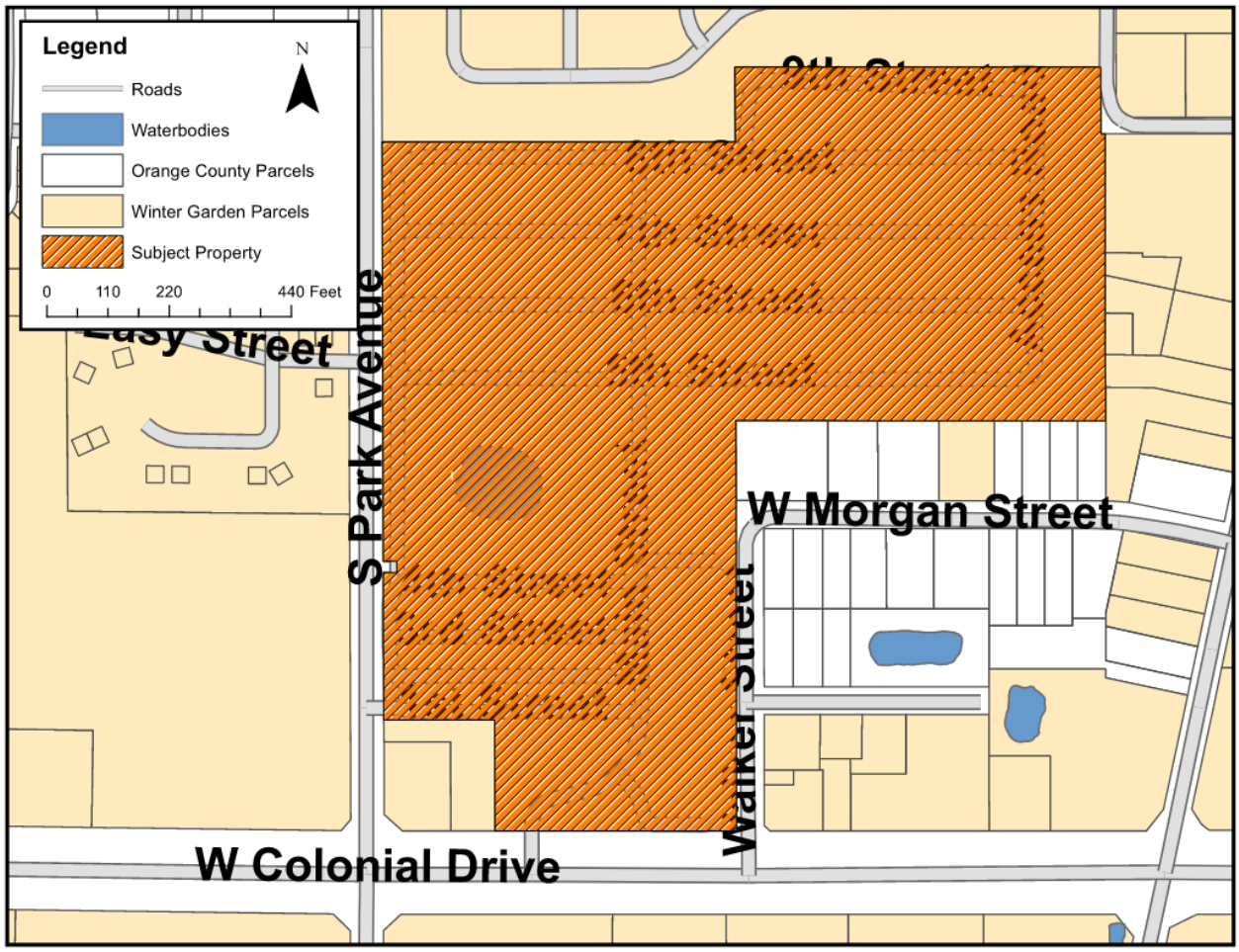
Staff recommends approval of the proposed Site Plan subject to the conditions of the DRC staff report dated February 4, 2026. Development of the property is consistent with the City's Comprehensive Plan and the property's C-2 zoning requirements.

Attachment(s)/References:

Location Map
Site Plan
Building Elevations
DRC Combined Comments

Location Map

13905 W Colonial Drive



CONSTRUCTION PLANS:

ENCORE WINTER GARDEN
13905 W. COLONIAL DR

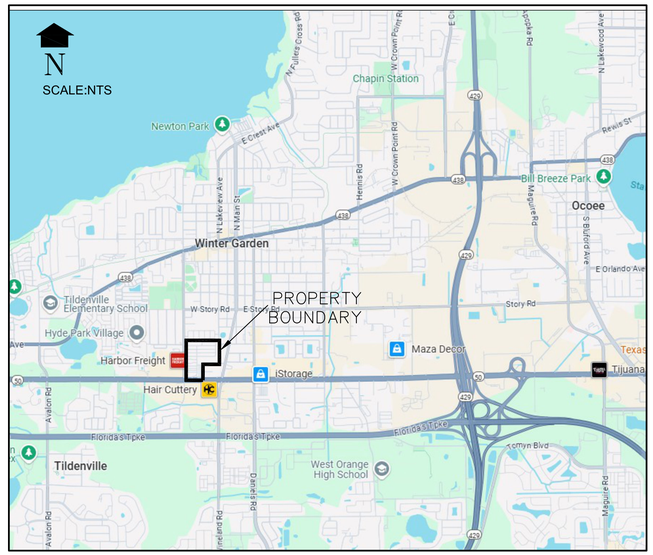
WINTER GARDEN, FL 34787

PARCEL ID: 23-22-27-0000-00-002

MARCH, 2025

ENGINEER:
LINN ENGINEERING & DESIGN
P.O. BOX 140024
ORLANDO, FL 32814
CONTACT: GREGORY T. CHATELAIN, P.E.
PHONE: 407-775-5194
EMAIL: greg@linnengineering.com
FL LIC. NO. 90573

SURVEYOR :
IRELAND & ASSOCIATES SURVEYING, INC.
800 CURRENCY CIRCLE, SUITE 1020
LAKE MARY, FLORIDA 32746
OFFICE 407.678.3366



VICINITY MAP
SCALE NTS

DRAWING INDEX

C01	COVER PAGE
C02	GENERAL NOTES
C03	EXISTING CONDITIONS AND DEMOLITION PLAN
C04	SITE PLAN
C05	PAVING, GRADING, AND DRAINAGE PLAN
C06	FIRE TRUCK ROUTE
SWPPP 1	EROSION CONTROL & STORMWATER POLLUTION PREVENTION PLAN
SWPPP 2	EROSION CONTROL & STORMWATER POLLUTION PREVENTION PLAN

CALL 2 FULL BUSINESS DAYS BEFORE YOUDIG
IT'S THE LAW!
DIAL811
811 Know what's below. Call before you dig.
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

No.	REVISIONS	DATE	BY

LINN ENGINEERING & DESIGN, INC.
P.O. BOX 140024
ORLANDO, FL 32814
PHONE: 407-775-5194
clinn@linnengineering.com

DESIGN ENGINEER: CHAD S. LINN, P.E.
FLORIDA REGISTRATION NUMBER: 57524
SEAL

SCALE: AS NOTED
DESIGNED BY CSL
DRAWN BY YKD
CHECKED BY CSL

COVER SHEET

ENCORE WINTER GARDEN
13905 W. COLONIAL DR.
WINTER GARDEN, FL 34787
CITY OF WINTER GARDEN FLORIDA

DATE 12/24
PROJECT NO. 99100-24-100
SHEET NUMBER C01

Drawing name: Z:\Projects\99100 - Albu\24-200 Encore Winter Garden\CAD-Civil\C01 Winter Garden Cover.dwg C01 cover Mar 14, 2025 11:18am by: Doug

GENERAL NOTES:

1. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. THE EXISTING UTILITY INFORMATION SHOWN IS BASED ON THE BOUNDARY SURVEY PROVIDED BY CUMMINS SURVEYING AND MAPPING. ALL EXISTING UTILITIES HAVE BEEN FIELD VERIFIED AT ALL POINTS OF CONNECTION AND AREAS OF INTEREST.

2. PRIOR TO THE INITIATION OF SITE CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ANY EXISTING UTILITIES INCLUDING GAS, WATER, ELECTRIC, CABLE TV, COMMUNICATIONS, SANITARY SEWERS AND STORM DRAINAGE SYSTEMS, ON AND / OR ADJACENT TO THE SITE. REMOVE OR CAP AS NECESSARY.

3. THE CONTRACTOR SHALL EXERCISE CAUTION IN AREAS OF BURIED UTILITIES AND SHALL CALL "SUNSHINE" AT 1-800-432-4770 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION TO ARRANGE FOR FIELD LOCATIONS OF BURIED UTILITIES.

4. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND, THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED, BY THE CONTRACTOR OR SUB-CONTRACTORS, AS CALLED FOR IN THESE CONTRACT DOCUMENTS.

5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS SPECIFIED BY THE VARIOUS GOVERNMENTAL AGENCIES AND THE ENGINEER. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION, AND SCHEDULE INSPECTIONS ACCORDING TO AGENCY INSTRUCTION/REQUIREMENTS.

6. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, ON ALL PRECAST AND MANUFACTURED ITEMS, TO THE OWNER'S ENGINEER FOR APPROVAL. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.

7. ALL UTILITY SERVICE STUB-OUTS (WATER, SANITARY SEWER, etc.) ARE TO BE INSTALLED WITHIN 5' OF BUILDING(S), UNLESS OTHERWISE NOTED ON PLANS.

8. CONTRACTOR TO COORDINATE WITH THE APPLICABLE ELECTRIC UTILITY SUPPLIER REGARDING ANY NECESSARY RELOCATION(S) OF UNDERGROUND AND/OR OVERHEAD ELECTRIC FACILITIES, AND FOR THE LOCATION AND INSTALLATION OF TRANSFORMER PAD(S) AND ASSOCIATED ELECTRIC FACILITIES.

9. SAFETY:

A. DURING THE CONSTRUCTION AND/OR MAINTENANCE OF THIS PROJECT, ALL SAFETY REGULATIONS ARE TO BE ENFORCED. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE SAFETY OF HIS/HER PERSONNEL.

B. LABOR SAFETY REGULATIONS SHALL CONFORM TO THE PROVISIONS SET FORTH BY OSHA IN THE FEDERAL REGISTER OF THE DEPARTMENT OF TRANSPORTATION.

C. THE MINIMUM STANDARDS AS SET FORTH IN THE CURRENT EDITION OF "THE STATE OF FLORIDA, MANUAL ON TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS" SHALL BE FOLLOWED IN THE DESIGN, APPLICATION, INSTALLATION, MAINTENANCE AND REMOVAL OF ALL TRAFFIC CONTROL DEVICES, WARNING DEVICES AND BARRIERS NECESSARY TO PROTECT THE PUBLIC AND CONSTRUCTION PERSONNEL FROM HAZARDS WITHIN THE PROJECT LIMITS.

D. ALL TRAFFIC CONTROL MARKINGS AND DEVICES SHALL CONFORM TO THE PROVISIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES PREPARED BY THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION.

E. ALL SUBSURFACE CONSTRUCTION SHALL COMPLY WITH THE "TRENCH SAFETY ACT". THE CONTRACTOR SHALL INSURE THAT THE METHOD OF TRENCH PROTECTION AND CONSTRUCTION IS IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS.

IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS. THE ABOVE INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY AND DOES NOT IMPLY THAT THE OWNER OR ENGINEER WILL INSPECT AND/OR ENFORCE SAFETY REGULATIONS.

10. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AN "ON-SITE PIPING PERMIT" (IF REQUIRED) FOR CONSTRUCTION OF THE PROPOSED UTILITIES. THIS PERMIT MUST BE OBTAINED BY A DULY LICENSED PLUMBING CONTRACTOR (OR CLASS A GENERAL CONTRACTOR) PRIOR TO THE START OF CONSTRUCTION. THESE PLANS AND ANY SUBSEQUENT REVISIONS TO THESE PLANS, THAT ARE ISSUED BY THE ENGINEER, WILL BE SUBJECT TO THE APPROVAL CONDITIONS OF THIS PERMIT.

11. THE GRAPHIC INFORMATION DEPICTED ON THESE PLANS HAS BEEN COMPILED TO PROPORTION BY SCALE AS ACCURATELY AS POSSIBLE. HOWEVER, DUE TO REPRODUCTIVE DISTORTION, REDUCTION, AND/OR REVISIONS, INFORMATION CONTAINED HEREIN IS NOT INTENDED TO BE SCALED FOR CONSTRUCTION PURPOSES.

12. ALL SPECIFICATIONS AND DOCUMENTS REFERENCED HEREIN SHALL BE OF THE LATEST REVISION.

13. ALL UNDERGROUND UTILITIES MUST BE IN-PLACE, TESTED AND INSPECTED PRIOR TO BASE AND SURFACE CONSTRUCTION.

14. WORK PERFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH ANY OTHER WORK BEING PERFORMED ON SITE BY OTHER CONTRACTORS/SUBCONTRACTORS AND UTILITY COMPANIES. IT WILL BE NECESSARY FOR THE GENERAL CONTRACTOR TO COORDINATE AND SCHEDULE HIS/HER ACTIVITIES ACCORDINGLY.

15. ALL DISTURBED AREAS WITHIN THE FDOT R/W SHALL BE SODDED WITH ARGENTINE BAHIA SOD.

16. WHERE APPLICABLE UTILITY TRENCHES CROSSING PAVEMENT AREAS SHALL BE BACKFILLED WITH GRANULAR MATERIAL IN TWELVE INCH (12") LAYERS AND COMPACTED TO NINETY EIGHT PERCENT (98 %) MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99 OR T-238.

17. ALL DIMENSIONS ARE TO FACE OF CURB.

AS BUILT:

UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL FURNISH THE OWNER'S ENGINEER WITH COMPLETE "AS-BUILT" INFORMATION, CERTIFIED BY A REGISTERED LAND SURVEYOR. THIS "AS-BUILT" INFORMATION SHALL INCLUDE INVERT ELEVATIONS, LOCATIONS OF STRUCTURES FOR ALL UTILITIES INSTALLED, AS WELL AS GRADE BREAK LOCATIONS AND ELEVATIONS FOR PROPOSED CONSTRUCTION. NO ENGINEER'S CERTIFICATIONS FOR CERTIFICATE OF OCCUPANCY (C.O.) PURPOSES WILL BE MADE UNTIL THIS INFORMATION HAS BEEN RECEIVED AND APPROVED BY THE OWNER'S ENGINEER.

CLEARING AND SITE PREPARATION NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION OF THE EROSION CONTROL DEVICES, AS SHOWN ON THE CONSTRUCTION PLANS, PRIOR TO ANY SITE CLEARING AND/OR DEMOLITION. REFER TO THE "EROSION CONTROL NOTES" SECTION CONTAINED HEREIN FOR ADDITIONAL REQUIREMENTS.

2. PRIOR TO ANY SITE CLEARING, ALL TREES SHOWN TO REMAIN, AS INDICATED ON THE CONSTRUCTION PLANS, SHALL BE PROTECTED IN ACCORDANCE WITH LOCAL TREE ORDINANCES, AND DETAILS CONTAINED IN THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THESE TREES IN GOOD CONDITION. NO TREE(S) SHOWN TO REMAIN SHALL BE REMOVED WITHOUT WRITTEN APPROVAL FROM THE OWNER AND THE LOCAL AGENCY HAVING JURISDICTION OVER THESE ACTIVITIES.

3. THE CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE SITE NECESSARY FOR CONSTRUCTION. ALL DISTURBED AREAS MUST BE SEEDED, MULCHED, SODDED OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIAL, IMMEDIATELY FOLLOWING CONSTRUCTION.

4. THE TOP 4" TO 6" OF GROUND REMOVED DURING CLEARING AND GRUBBING ACTIVITIES SHALL BE STOCKPILED, TO BE USED FOR LANDSCAPING PURPOSES, UNLESS OTHERWISE DIRECTED BY THE OWNER. REMAINING EARTHWORK THAT RESULTS FROM CLEARING AND GRUBBING OR SITE EXCAVATION IS TO BE UTILIZED ON-SITE, PROVIDED THE MATERIAL IS DEEMED SUITABLE BY THE OWNER'S SOILS TESTING COMPANY. EXCESS MATERIAL IS TO EITHER BE STOCKPILED ON-SITE, AS DIRECTED BY THE OWNER OR OWNER'S ENGINEER, OR REMOVED FROM THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING ANY EXCESS MATERIAL FROM THE SITE.

5. ALL EXISTING DEBRIS (ABOVE OR BELOW GROUND), CONSTRUCTION DEBRIS AND OTHER WASTE MATERIAL SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR, IN ACCORDANCE WITH APPLICABLE REGULATORY AGENCY REQUIREMENTS.

6. THE CONTRACTOR IS TO PREPARE THE SITE IN ACCORDANCE WITH THE SOILS REPORT, COPIES OF WHICH ARE AVAILABLE THROUGH THE OWNER OR SOILS TESTING COMPANY DIRECTLY.

7. CONTRACTOR TO BE RESPONSIBLE FOR INSTALLATION OF TEMPORARY CONSTRUCTION FENCE AROUND ENTIRE PERIMETER OF PROPERTY. TYPE OF FENCE TO BE SUBMITTED BY CONTRACTOR TO ENGINEER FOR APPROVAL.

1. CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEDIMENTATION BARRIERS (SILTATION CURTAINS) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS AND WATERWAYS. IN ADDITION, CONTRACTOR SHALL PLACE STRAW, MULCH OR OTHER SUITABLE MATERIAL ON GROUND IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT SITE. IF, IN THE OPINION OF THE ENGINEER AND/OR LOCAL AUTHORITIES, EXCESSIVE QUANTITIES OF EARTH ARE TRANSPORTED OFF-SITE EITHER BY NATURAL DRAINAGE OR BY VEHICULAR TRAFFIC, THE CONTRACTOR IS TO REMOVE SAID EARTH TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES.

2. THE CONTRACTOR SHALL LIMIT THE DISCHARGE OF TURBID WATERS OFF-SITE, OR INTO ON-SITE/OFF-SITE WETLANDS (IF APPLICABLE), TO NO MORE THAN 50 JTU'S (JACKSON TURBIDITY UNITS) OR 29 NTU's (NEPHELOMETRIC TURBIDITY UNITS), ABOVE BACKGROUND LEVELS.

3. IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AFFECTED AREA USING SPRINKLING, IRRIGATION OR OTHER ACCEPTABLE METHODS.

4. CONTRACTOR SHALL INSPECT AND MAINTAIN ON A DAILY BASIS ALL EROSION/SEDIMENTATION CONTROL FACILITIES.

5. THE CONTRACTOR SHALL ENSURE THAT SILTATION ACCUMULATIONS GREATER THAN THE LESSER OF 12 INCHES OR ONE-HALF THE DEPTH OF THE SILTATION CONTROL BARRIER SHALL BE IMMEDIATELY REMOVED AND PLACED IN UPLAND AREAS.

6. STAKED HAY BALES WILL NOT BE UTILIZED FOR EROSION, SEDIMENT AND TURBIDITY CONTROL.

PAVING AND GRADING NOTES:

1. ALL DELETERIOUS SUBSURFACE MATERIAL (I.E. MUCK, PEAT, BURIED DEBRIS, ETC.) IS TO BE EXCAVATED AND REPLACED WITH SUITABLE/COMPACTED SOILS, AS DIRECTED BY THE OWNER, THE OWNERS ENGINEERS, OR OWNERS SOILS TESTING COMPANY. DELETERIOUS MATERIAL IS TO BE STOCKPILED OR REMOVED FROM THE SITE AS DIRECTED BY THE OWNER. EXCAVATED AREAS ARE TO BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE PLANS. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING DELETERIOUS MATERIAL FROM THE SITE.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND WILL PROVIDE BRACING, SHEETING OR SHORING AS NECESSARY. DEWATERING METHODS SHALL BE USED AS REQUIRED TO KEEP TRENCHES DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACED.

3. ALL NECESSARY FILL AND EMBANKMENT THAT IS PLACED DURING CONSTRUCTION SHALL CONSIST OF MATERIAL SPECIFIED BY THE OWNER'S SOILS TESTING COMPANY OR ENGINEER AND BE PLACED AND COMPACTED ACCORDING TO THESE PLANS.

4. PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADES, UNLESS OTHERWISE NOTED.

5. IT MAY BE NECESSARY TO FIELD ADJUST PAVEMENT ELEVATIONS TO PRESERVE THE ROOT SYSTEMS OF TREES SHOWN TO BE SAVED. CONTRACTOR TO COORDINATE WITH OWNER'S ENGINEER PRIOR TO ANY ELEVATION CHANGES.

6. CONTRACTOR SHALL TRIM, TACK AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.

7. CURBING SHALL BE PLACED AT THE EDGES OF ALL PAVEMENT, UNLESS OTHERWISE NOTED. REFER TO THE LATEST EDITION OF F.D.O.T. "ROADWAY AND TRAFFIC DESIGN STANDARDS" FOR DETAILS AND SPECIFICATIONS OF ALL F.D.O.T. TYPE CURB AND GUTTERS CALLED FOR IN THESE PLANS.

8. PRIOR TO CONSTRUCTING CONCRETE PAVEMENT, THE CONTRACTOR IS TO SUBMIT A PROPOSED JOINTING PATTERN TO THE SOILS ENGINEER FOR APPROVAL.

9. CONTRACTOR TO PROVIDE A 1/2" TO 1" BITUMINOUS EXPANSION JOINT MATERIAL WITH SEALER AT ABUTMENT OF CONCRETE AND OTHER MATERIALS (STRUCTURES, OTHER POURED)

10. ALL PAVEMENT MARKINGS SHALL BE MADE IN ACCORDANCE WITH F.D.O.T. STANDARD INDEX #17346.

11. THE CONTRACTOR WILL STABILIZE BY SEED AND MULCH, SOD, OR OTHER APPROVED MATERIALS ANY DISTURBED AREAS WITHIN ONE WEEK FOLLOWING CONSTRUCTION OF THE UTILITY SYSTEMS AND PAVEMENT AREAS. CONTRACTOR SHALL MAINTAIN SUCH AREAS UNTIL FINAL ACCEPTANCE BY OWNER. CONTRACTOR TO COORDINATE WITH OWNER REGARDING TYPE OF MATERIAL, LANDSCAPING AND IRRIGATION REQUIREMENTS.

12. THE CONTRACTOR SHALL RESTORE OFF-SITE CONSTRUCTION AREAS TO EQUAL AND/OR BETTER CONDITION THAN EXISTING PRIOR TO START OF CONSTRUCTION.

13. UNLESS OTHERWISE NOTED, GRADE TO MEET EXISTING ELEVATION AT PROPERTY LINES.

14. SURVEY MONUMENTS OR BENCHMARKS, WHICH HAVE TO BE DISTURBED BY THIS WORK, SHALL BE REPLACED UPON COMPLETION OF WORK BY A REGISTERED LAND SURVEYOR.

15. FINAL GRADES SHOWN INCLUDE SOD HEIGHT. ALL AREAS SHALL BE GRADED TO DRAIN AWAY FROM THE BUILDINGS.

TESTING AND INSPECTION REQUIREMENTS (PAVING/GRADING):

1. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING APPLICABLE TESTING WITH THE SOILS ENGINEER. TESTS WILL BE REQUIRED PURSUANT WITH THE SOILS REPORT. UPON COMPLETION OF WORK THE SOILS ENGINEER WILL SUBMIT CERTIFICATIONS TO THE OWNER AND OWNER'S ENGINEER STATING THAT ALL REQUIREMENTS HAVE BEEN MET.

2. A QUALIFIED TESTING LABORATORY SHALL PERFORM ALL TESTING NECESSARY TO ASSURE COMPLIANCE OF THE IN-PLACE MATERIALS AS REQUIRED BY THESE PLANS, THE VARIOUS AGENCIES AND PERMIT CONDITIONS. SHOULD ANY RETESTING BE REQUIRED DUE TO THE FAILURE OF ANY TESTS TO MEET THE REQUIREMENTS, THE CONTRACTOR WILL BEAR ALL COSTS OF SAID RETESTING.

STORM DRAINAGE SYSTEM NOTES:

1. STANDARD INDEXES REFER TO THE LATEST EDITION OF F.D.O.T. "ROADWAY AND TRAFFIC DESIGN STANDARDS."

2. ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE CLASS III (ASTM C-76) UNLESS OTHERWISE NOTED ON PLANS. ALL DRAINAGE STRUCTURES SHALL BE IN ACCORDANCE WITH F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS UNLESS OTHERWISE NOTED ON PLANS.

3. PIPE LENGTHS SHOWN ARE APPROXIMATE AND TO CENTER OF DRAINAGE STRUCTURES, WITH THE EXCEPTION OF MITERED END AND FLARED END SECTIONS, WHICH ARE NOT INCLUDED IN LENGTHS.

4. ALL DRAINAGE STRUCTURE GRATES AND COVERS, EITHER EXISTING OR PROPOSED SHALL BE TRAFFIC RATED FOR H-20 LOADINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY NECESSARY UPGRADES TO EXISTING DRAINAGE STRUCTURES.

5. CONSTRUCTION OF STORMWATER MANAGEMENT SYSTEM MUST BE COMPLETE AND ALL DISTURBED AREAS STABILIZED IN ACCORDANCE WITH THE PERMITTED PLANS AND CONDITIONS PRIOR TO ANY OF THE FOLLOWING: ISSUANCE OF THE FIRST CERTIFICATE OF OCCUPANCY; INITIATION OF INTENDED USE OF THE INFRASTRUCTURE; OR TRANSFER OF RESPONSIBILITY FOR MAINTENANCE OF THE SYSTEM TO A LOCAL GOVERNMENT OR OTHER RESPONSIBLE ENTITY.

6. NON-MUCK GROWN SOD WILL BE UTILIZED FOR STABILIZATION OF THE PROPOSED STORMWATER RETENTION FACILITY. MUCK-GROWN SOD MAY IMPEDE THE PERCOLATION OF RUNOFF INTO THE GROUND AND IS NOT RECOMMENDED FOR THE STABILIZATION OF RETENTION POND BOTTOMS.

TESTING AND INSPECTION REQUIREMENTS (DRAINAGE):

1. THE STORM DRAINAGE PIPING SYSTEM SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNER'S ENGINEER PRIOR TO THE PLACEMENT OF BACKFILL. CONTRACTOR TO NOTIFY THE ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE INSPECTION.

2. THE CONTRACTOR SHALL MAINTAIN AND PROTECT FROM MUD, DIRT, DEBRIS, ETC. THE STORM DRAINAGE SYSTEM UNTIL FINAL ACCEPTANCE OF THE PROJECT. THE STORM SYSTEM WILL BE REINSPECTED BY THE OWNER'S ENGINEER PRIOR TO APPROVAL FOR CERTIFICATE OF OCCUPANCY PURPOSES. THE CONTRACTOR MAY BE REQUIRED TO RECLEAN PIPES AND INLETS FOR THESE PURPOSES.

SANITARY SYSTEM NOTES:

1. SANITARY SEWERS, FORCE MAINS, AND STORM SEWERS SHOULD ALWAYS CROSS UNDERNEATH WATER MAINS. INSTALLATIONS OF SANITARY SEWERS, FORCE MAINS AND STORM SEWERS, AT CROSSINGS OF WATER MAINS, SHALL BE PERFORMED SO AS TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE, WHENEVER POSSIBLE. THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER JOINTS AND WATER JOINTS SHALL BE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN 10 FEET BETWEEN ANY TWO JOINTS. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE LEAK FREE, AND MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 6 INCHES MUST BE MAINTAINED AT THE CROSSINGS.

WHERE THERE IS NO ALTERNATIVE TO SEWER PIPES CROSSING OVER WATER MAINS, THE CRITERIA FOR MINIMUM SEPARATION OF 18 INCHES BETWEEN LINES, AND 10 FEET BETWEEN JOINTS, CENTERED AT THE POINT OF CROSSING SHALL BE REQUIRED. THE WATER MAIN SHALL BE PLACED IN A SLEEVE FOR 20 FEET CENTERED ON THE POINT OF CROSSING, ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT DAMAGE TO THE WATER MAIN. ALL CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND THE WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING (i.e. PIPES CENTERED ON THE CROSSING).

2. A MINIMUM 10 FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER (INCLUDING FORCE MAINS) AND EXISTING OR PROPOSED WATER MAINS, IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE. THE DISTANCE FOR SEPARATION SHALL BE MEASURED EDGE TO EDGE.

IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE INSTALLED IN A SEPARATE TRENCH, OR IN AN UNDISTURBED EARTH SHELF, LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN, AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER LINE, AND WATER AND SEWER JOINTS SHALL BE STAGGERED.

THE WATER MAIN SHOULD ALWAYS BE LOCATED ABOVE THE SEWER. JOINTS ON THE WATER MAIN SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM JOINTS ON THE SEWER OR FORCE MAIN (i.e. STAGGERED JOINTS).

3. ALL PVC PIPE SHALL BE SOLID WALL POLYVINYL CHLORIDE PIPE AND COMPLY WITH ASTM D 3034 AND ALL APPLICABLE ASTM DOCUMENTS AS COVERED IN SECTION NO. 2 OF ASTM D 3034. MAIN LINES SHALL BE A MINIMUM OF 8" DIAMETER, AND LATERALS SHALL BE A MINIMUM 6" DIAMETER.

4. ALL SANITARY SEWER MAINS, LATERALS AND FORCE MAINS SHALL HAVE A MINIMUM OF 36 INCHES OF COVER, UNLESS OTHERWISE NOTED ON PLANS.

5. ALL GRAVITY SEWERS MUST BE SDR 26 PVC, EXCEPT FOR PIPE DEEPER THAN 15 FEET, IN WHICH CASE DIP PIPE SHALL BE USED. ELASTOMERIC GASKET JOINTS SHALL BE UTILIZED FOR PVC PIPE, AND SHALL COMPLY WITH ASTM F477, ASTM D3034 & ASTM F679. JOINTS SHALL COMPLY WITH ASTM D3212.

6. ALL SANITARY MANHOLES SHALL BE LOCATED NO MORE THAN 400 FEET APART AND SHALL CONFORM TO THE DETAILS CONTAINED HEREIN, AS WELL AS WITH ASTM C478.

7. ALL SLOPES FOR GRAVITY SEWER MAINS AND SERVICE CONNECTIONS SHALL COMPLY WITH THE FOLLOWING MINIMUM GRADES: 4" @ 1.00%, 6" @ 1.00% ; AND 8" @ 0.40%

8. ALL SANITARY SEWER WORK SHALL CONFORM WITH APPLICABLE CITY OF WINTER GARDEN ENGINEERING STANDARDS MANUAL.

9. PRIOR TO COMMENCING WORK WHICH REQUIRES CONNECTING PROPOSED FACILITIES TO EXISTING LINES OR APPURTENANCES, THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION(S) OF EXISTING CONNECTION POINT(S) AND NOTIFY THE OWNER'S ENGINEER OF ANY CONFLICTS OR DISCREPANCIES.

11. SANITARY SEWER MAINS SHALL HAVE SUITABLE MAGNETIC LOCATOR TAPE(S) BURIED AT LEAST 18 INCHES ABOVE THE MAIN LINES.

12. FORCE MAINS SHALL HAVE SUITABLE MAGNETIC LOCATOR TAPE(S) BURIED AT LEAST 18 INCHES ABOVE THE WATER MAIN.

13. ON SITE WASTEWATER COLLECTION SYSTEM AND PUMP STATION IS PRIVATELY OWNED AND MAINTAINED.

14. PLUG VALVE TO BE INSTALLED VERTICALLY AND TAPPING VALVE TO BE INSTALLED HORIZONTALLY AND ABANDONED IN THE OPEN POSITION.

TESTING AND INSPECTION REQUIREMENTS (SANITARY):

1. ALL GRAVITY SEWER PIPING SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNER'S ENGINEER AND APPLICABLE MUNICIPALITY/AGENCY. THE CONTRACTOR SHALL NOTIFY THE ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE INSPECTION(S). THE CONTRACTOR SHALL BE RESPONSIBLE FOR COSTS ASSOCIATED WITH A TELEVISED INSPECTION (TV) OF THE PROPOSED GRAVITY SEWER LINE CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE COPIES OF THE TV INSPECTION TAPE TO THE ENGINEER, THE OWNER AND THE APPLICABLE MUNICIPALITY/AGENCY.

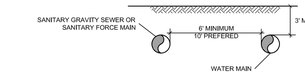
2. THE CONTRACTOR SHALL PERFORM AN INFILTRATION/EXFILTRATION TEST ON ALL GRAVITY SEWERS IN ACCORDANCE WITH THE REGULATORY AGENCY HAVING JURISDICTION. SAID TESTS ARE TO BE CERTIFIED BY THE ENGINEER OF RECORD AND SUBMITTED TO THE REGULATORY AGENCY FOR APPROVAL. THE SCHEDULING, COORDINATION AND NOTIFICATION OF ALL PARTIES IS THE CONTRACTOR'S RESPONSIBILITY.

3. LEAKAGE TESTS ARE SPECIFIED REQUIRING THAT:
   A. THE LEAKAGE EXFILTRATION OR INFILTRATION DOES NOT EXCEED 200 GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY FOR ANY SECTION OF THE SYSTEM.
   B. EXFILTRATION OR INFILTRATION TESTS BE PERFORMED WITH A MINIMUM POSITIVE HEAD OF 2 FEET.
   C. AIR TESTS, AS A MINIMUM, CONFORM TO THE TEST PROCEDURE DESCRIBED IN ASTM C-828 FOR CLAY PIPE, ASTM C 924 FOR CONCRETE PIPE, ASTM F-1417 FOR PLASTIC PIPE, AND FOR OTHER MATERIALS APPROPRIATE TEST PROCEDURES.

4. CONTRACTOR TO PERFORM APPROPRIATE DEFLECTION TESTS FOR ALL FLEXIBLE PIPE. TESTING IS REQUIRED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS TO PERMIT STABILIZATION OF THE SOIL-PIPE SYSTEM. TESTING REQUIREMENTS SPECIFY:
   A. NO PIPE SHALL EXCEED A DEFLECTION OF 5%.
   B. USING A RIGID BALL OR MANDREL FOR THE DEFLECTION TEST WITH A DIAMETER NOT LESS THAN 95% OF THE BASE INSIDE DIAMETER OR AVERAGE INSIDE DIAMETER OF THE PIPE, DEPENDING ON WHICH IS SPECIFIED IN THE ASTM SPECIFICATION, INCLUDING THE APPENDIX, TO WHICH THE PIPE IS MANUFACTURED.
   C. PERFORMING THE TEST WITHOUT MECHANICAL PULLING DEVICES.

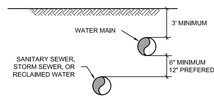
5. CONTRACTOR TO INSPECT & TEST MANHOLE FOR WATERTIGHTNESS OR DAMAGE PRIOR TO PLACING INTO SERVICE. AIR TESTING, IF SPECIFIED FOR CONCRETE SEWER MANHOLES, SHALL CONFORM TO THE TEST PROCEDURES DESCRIBED IN ASTM C-1244.

WATER SYSTEM NOTES:



1. A MINIMUM HORIZONTAL SEPARATION OF SIX (6) FEET [TEN (10) FEET PREFERRED] OUTSIDE TO OUTSIDE SHALL BE MAINTAINED BETWEEN WATER MAINS AND SANITARY GRAVITY SEWER OR SANITARY FORCE MAINS.

2. A MINIMUM HORIZONTAL SEPARATION OF THREE (3) FEET OUTSIDE TO OUTSIDE SHALL BE MAINTAINED BETWEEN WATER MAINS AND STORM SEWERS OR RECLAIMED WATER LINES CARRYING UNRESTRICTED PUBLIC ACCESS REUSE WATER.



3. IN AREAS WHERE IT IS NOT PRACTICAL TO MAINTAIN THE REQUIRED SEPARATION, THE WATER MAIN MUST BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SANITARY GRAVITY SEWER, STORM SEWER OR RECLAIMED WATER LINE AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST SIX (6) INCHES ABOVE THE TOP OF THE OTHER LINE.

4. IF THE MINIMUM ALLOWABLE SIX (6) FOOT HORIZONTAL SEPARATION OR SIX (6) INCHES VERTICAL SEPARATION IN A SEPARATE TRENCH CANNOT BE MAINTAINED. UPGRADE THE WATER MAIN TO DUCTILE IRON IF THE OTHER LINE IS A STORM SEWER.

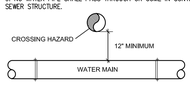
5. IF THE NON-CONFORMING LINE IS A GRAVITY SANITARY SEWER, AND SIX (6) FOOT HORIZONTAL SEPARATION OR SIX (6) INCHES VERTICAL SEPARATION IN A SEPARATE TRENCH CANNOT BE MAINTAINED. UPGRADE THE GRAVITY SANITARY SEWER (IF BEING NEWLY INSTALLED) TO AWWA C-900, D.R. 18 PVC AND HYDROSTATICALLY TEST IT TO 150 PSI.

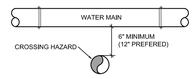
6. IF THE OTHER LINE IS A RECLAIMED WATER LINE AND THE ABOVE SEPARATION REQUIREMENTS ARE NOT MET, UPGRADE THE RECLAIMED WATER LINE MATERIAL TO DUCTILE IRON OR ENCASED THE PIPE IN CONCRETE.

7. DEVIATIONS AND OTHER ALTERNATIVES SHALL BE CONSIDERED ON CASE-BY-CASE BASIS AND MUST RECEIVE SPECIFIC APPROVAL BY D.E.P. PRIOR TO IMPLEMENTATION.

8. THERE SHALL BE AT LEAST A SIX (6) FOOT SEPARATION BETWEEN WATER MAINS AND SANITARY SEWER FORCE MAINS WITHOUT EXCEPTION. FIELD PROBLEMS SHALL BE REPORTED TO THE ENGINEER. SPECIAL SOLUTIONS MUST BE ACCEPTED BY D.E.P. PRIOR TO IMPLEMENTATION.

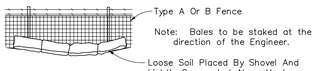
9. NO WATER PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SANITARY SEWER MANHOLE OR STORM SEWER STRUCTURE.





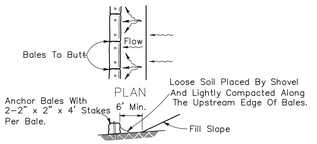
10. A MINIMUM OF VERTICAL SEPARATION OF SIX (6) INCHES [TWELVE (12) INCHES PREFERRED] OUTSIDE TO OUTSIDE SHALL BE MAINTAINED BETWEEN WATER MAIN, SANITARY GRAVITY SEWER, STORM SEWER OR RECLAIMED WATER LINES.

THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER JOINTS AND WATER JOINTS SHALL BE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN TWELVE (12) FEET BETWEEN ANY TWO JO



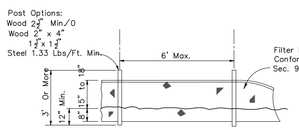
BALES BACKED BY FENCE
N.T.S.

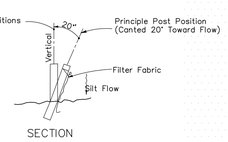
* SYNTHETIC BALES SHALL BE USED IN PLACE OF HALE BALES.



TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES TOWARD THE TOE OF SLOPE

BARRIERS FOR FILL SLOPES
N.T.S.





TYPE III SILT FENCE
N.T.S.

Anchor Bales With 2 – 2" x 2" x 4' Stakes Per Bale.

PROTECTION AROUND INLETS OR SIMILAR STRUCTURES
N.T.S.

* SYNTHETIC BALES SHALL BE USED IN PLACE OF HALE BALES.

Type III Silt Fence Protection Around Ditch Bottom Inlets.

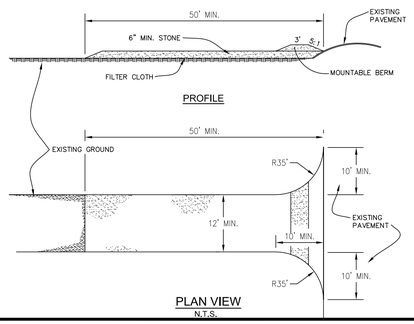
PUT FILTER FABRIC UNDER GRATE DURING CONSTRUCTION

Do not deploy in a manner that silt fences will act as a dam across permanent flowing watercourses. Silt fences are to be used at upland locations and turbidity barriers used at permanent bodies of water.

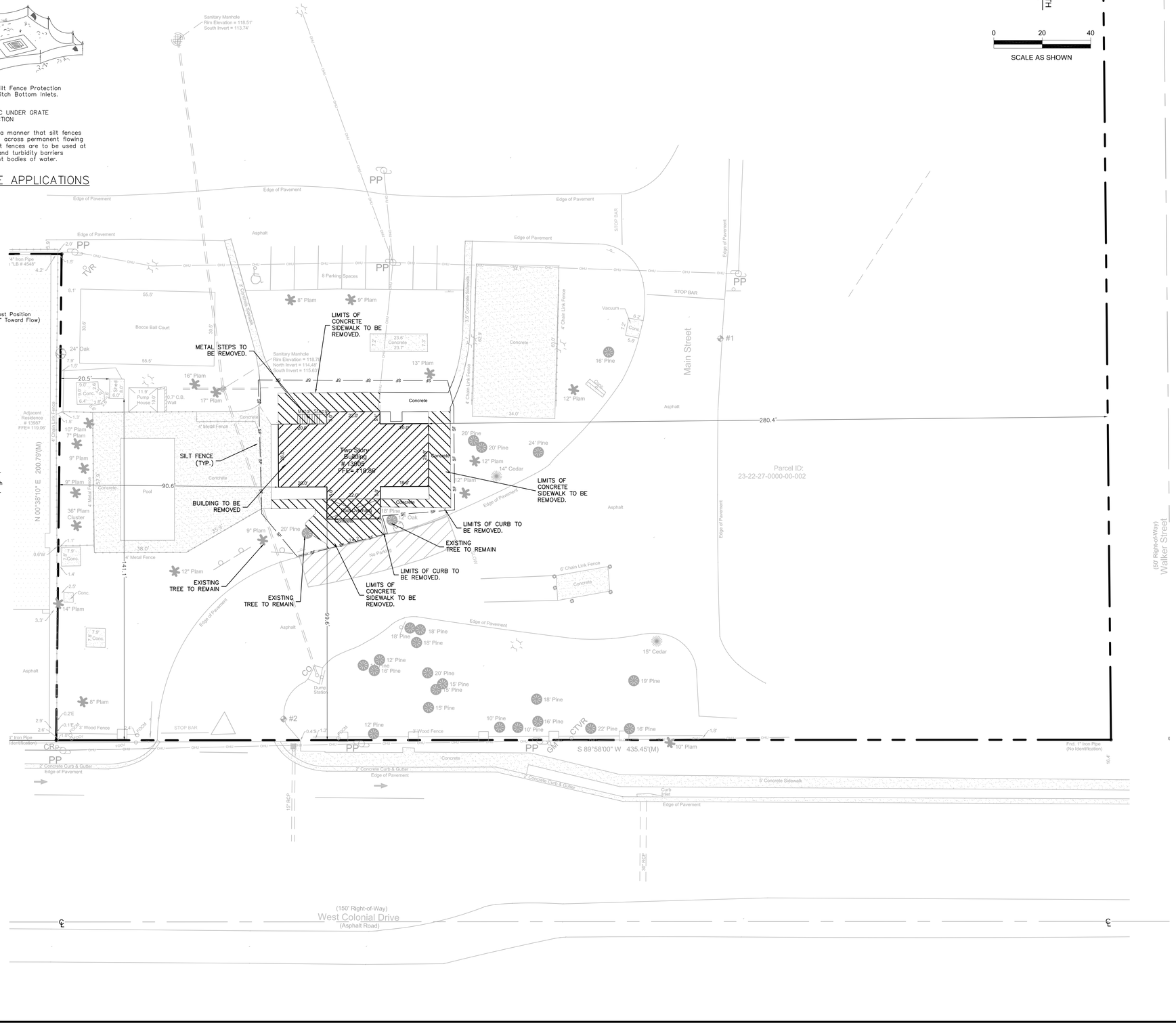
SILT FENCE APPLICATIONS
N.T.S.

STABILIZED CONSTRUCTION ENTRANCE

1. STONE SIZE – USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – AS REQUIRED, BUT NOT LESS THAN 50 FEET.
3. THICKNESS – NOT LESS THAN SIX (6) INCHES.
4. WIDTH – TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. FILTER CLOTH – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE . IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS–OF–WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS–OF–WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING – WHEELS SHALL BE CLEANED TO REMOVED SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS–OF–WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.



N.T.S.



No.	REVISIONS	DATE	BY

LINN ENGINEERING & DESIGN, INC.
P.O. BOX 140024
ORLANDO, FL 32814
PHONE: 407-775-5194
clinn@linnengineering.com

DESIGN ENGINEER: CHAD S. LINN, P.E.
FLORIDA REGISTRATION NUMBER: 57524
SEAL

SCALE AS NOTED
DESIGNED BY CSL
DRAWN BY YKD
CHECKED BY CSL

EXISTING CONDITIONS AND DEMOLITION SHEET

ENCORE WINTER GARDEN
13905 W. COLONIAL DR.
WINTER GARDEN, FL 34787
CITY OF WINTER GARDEN FLORIDA

DATE 12/24
PROJECT NO. 99100-24-100
SHEET NUMBER C03

Drawing name: Z:\Projects\99100 – Albu\24-200 Encore Winter Garden\CAD-Civil\C03 Winter Garden Demo.dwg C03 Demo Mar 14, 2025 11:19am by: Doug

SITE DATA

PROJECT AREA:	0.99 ACRES (XXXX SF)
EXISTING USE:	RV PARK
PROPOSED USE:	RV PARK
EXISTING ZONING:	C-2 (COMMERCIAL)
PROPOSED ZONING:	C-2 (COMMERCIAL)
FUTURE LAND USE:	GENERAL COMMERCIAL
MAXIMUM BUILDING HEIGHT:	35'

BUILDING SETBACKS — REQUIRED

FRONT SETBACK	40'
SIDE SETBACK	20'
REAR SETBACK	20'

LANDSCAPE BUFFERS

FRONT BUFFER	15'
SIDE BUFFER	5'
REAR BUFFER	10'

REQUIRED PARKING SPACES:

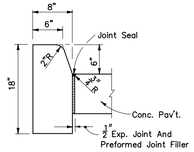
3 SPACE PER 1,000 SQFT

1,832 SQFT / 1,000 SQFT x 3 = 5.5 SPACES

REQUIRED SPACES : 6 SPACES

PARKING PROVIDED:

STANDARD 90° PARKING:	7
HANDICAP SPACES:	1
TOTAL SPACES PROVIDED:	8 SPACES



FDOT TYPE D CURB

*REFER TO FDOT STANDARDS AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION) FOR DENSITY REQUIREMENTS OF ABOVE MATERIALS

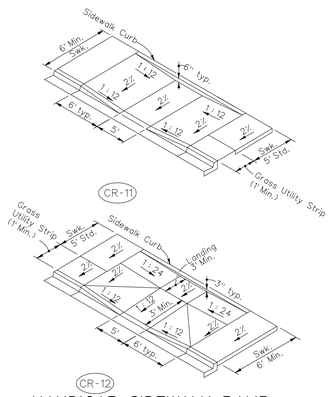
* WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP SHALL BE 6" UNLESS OTHERWISE NOTED.

LEGEND

PROPOSED TYPE D CURB

PROPOSED EASEMENT

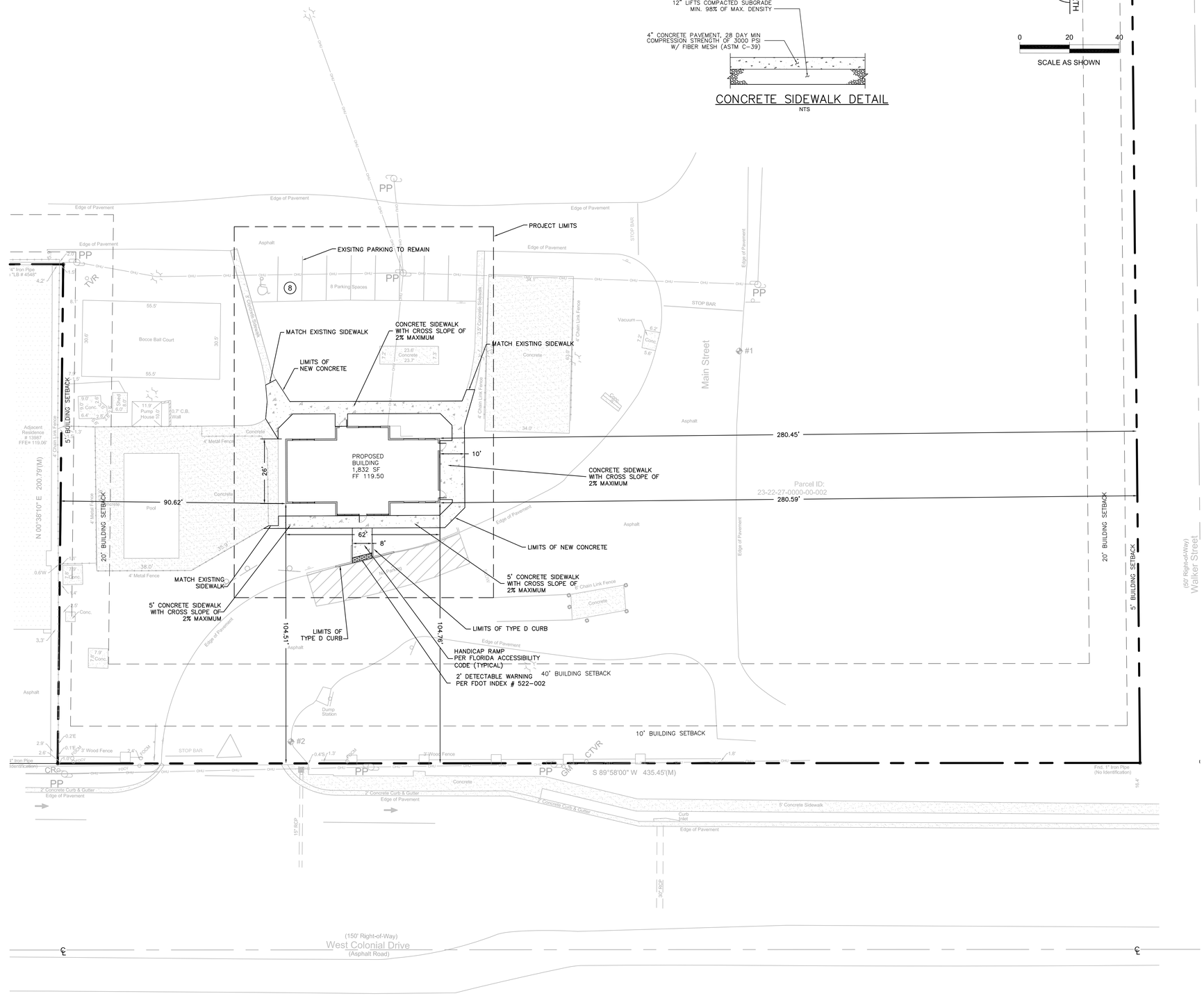
PROPERTY LINE



HANDICAP SIDEWALK RAMP

CONCRETE SIDEWALK DETAIL

NTS



No.	REVISIONS	DATE	BY

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clinn@linnengineering.com

SCALE AS NOTED
DESIGNED BY CSL
DRAWN BY YKD
CHECKED BY CSL

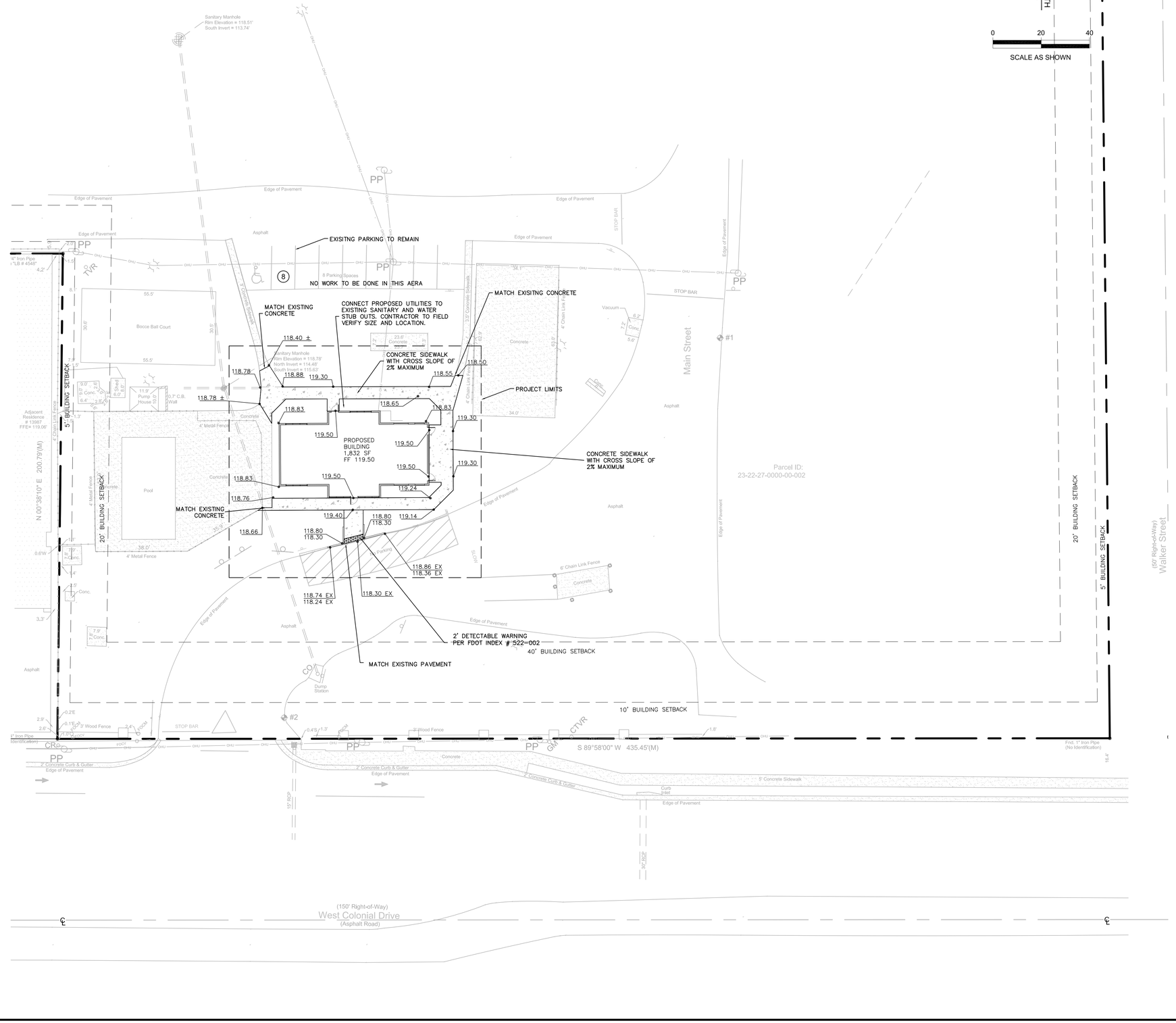
DESIGN ENGINEER: CHAD S. LINN, P.E.
FLORIDA REGISTRATION NUMBER: 57524
SEAL

SITE PLAN

ENCORE WINTER GARDEN
13905 W. COLONIAL DR.
WINTER GARDEN, FL 34787
CITY OF WINTER GARDEN FLORIDA

DATE 12/24
PROJECT NO. 99100-24-100
SHEET NUMBER C04

Drawing name: Z:\Projects\99100 - Albu\24-200 Encore Winter Garden\CAD-Civil\C04 Winter Garden Site Plan.dwg C04 Site Plan Mar 14, 2025 12:30pm by: Doug



LEGEND

- PROPOSED TYPE D CURB
- PROPOSED EASEMENT
- PROPERTY LINE

No.	REVISIONS	DATE	BY

LINN ENGINEERING & DESIGN, INC.
P.O. BOX 140024
ORLANDO, FL 32814
PHONE: 407-775-5194
clinn@linnengineering.com

SCALE: AS NOTED
DESIGNED BY: CSL
DRAWN BY: YKD
CHECKED BY: CSL

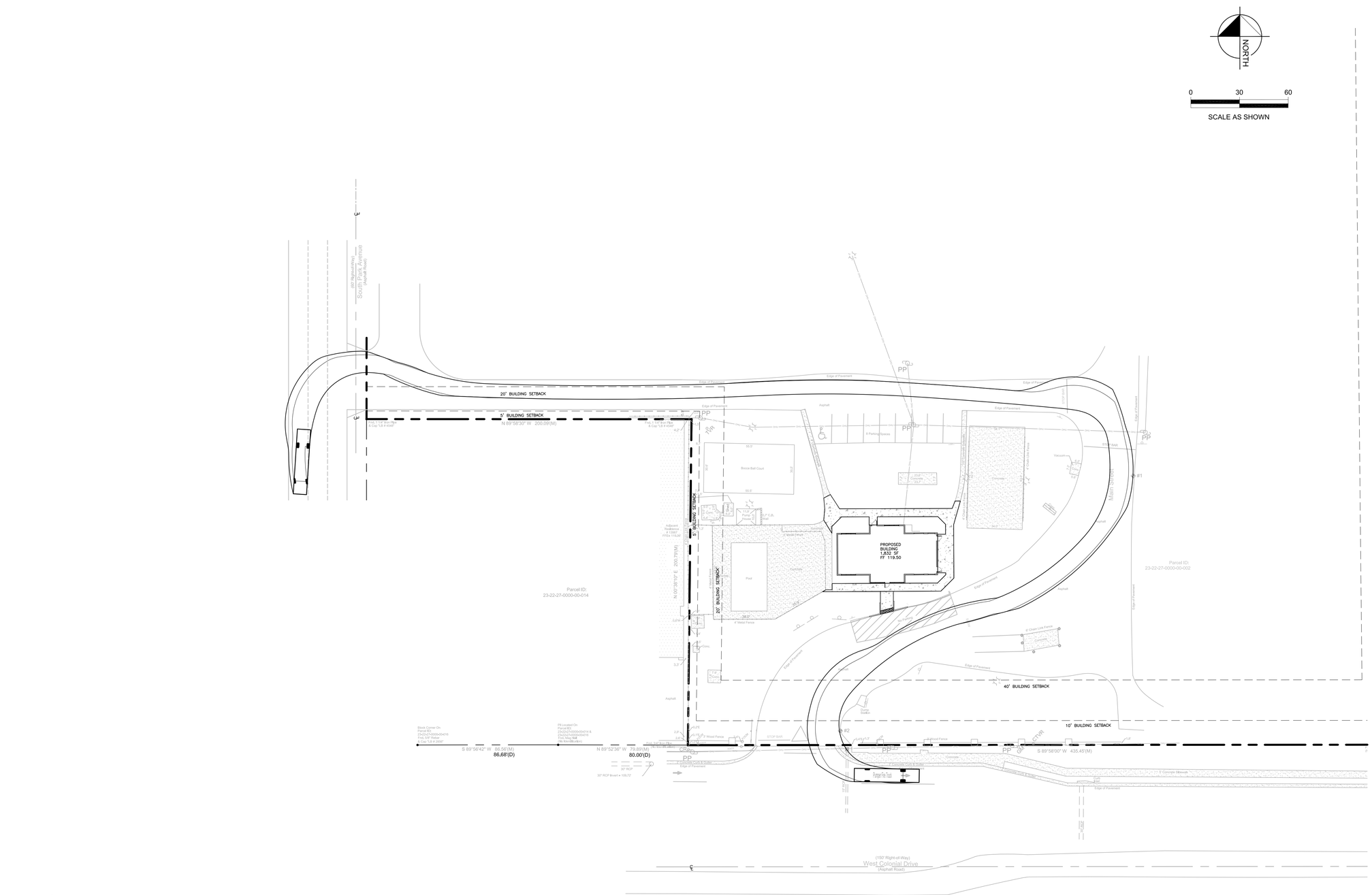
DESIGN ENGINEER: CHAD S. LINN, P.E.
FLORIDA REGISTRATION NUMBER: 57524
SEAL

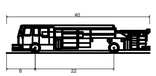
PAVING, DRAINAGE AND GRADING PLAN

ENCORE WINTER GARDEN
13905 W. COLONIAL DR.
WINTER GARDEN, FL 34787
CITY OF WINTER GARDEN FLORIDA

DATE: 12/24
PROJECT NO.: 99100-24-100
SHEET NUMBER: C05

Drawing name: Z:\Projects\99100 - Albu\24-200 Encore Winter Garden\CAD-Civil\C05 Winter Garden PGD.dwg c05 grading Mar 14, 2025 12:50pm by: Doug





Pumper Fire Truck	
Overall Length	40.000ft
Overall Width	8.167ft
Overall Body Height	7.745ft
Min Body Ground Clearance	0.656ft
Track Width	8.167ft
Lock-to-lock time	5.00s
Max Wheel Angle	45.00°

No.	REVISIONS	DATE	BY

LINN ENGINEERING & DESIGN, INC.
P.O. BOX 140024
ORLANDO, FL 32814
PHONE: 407-775-5194
clinn@linnengineering.com

SCALE AS NOTED
DESIGNED BY CSL
DRAWN BY YKD
CHECKED BY CSL

DESIGN ENGINEER:
CHAD S. LINN, P.E.
FLORIDA REGISTRATION NUMBER:
57524
SEAL

FIRE TRUCK ROUTE

ENCORE WINTER GARDEN
13905 W. COLONIAL DR.
WINTER GARDEN, FL 34787
CITY OF WINTER GARDEN FLORIDA

DATE
12/24

PROJECT NO.
99100-24-100

SHEET NUMBER
C06

Drawing name: Z:\Projects\99100 - Albu\24-200 Encore Winter Garden\CAD-Civil\C06 Winter Garden Fire truck.dwg C06 Site Plan Mar 14, 2025 12:50pm by: Doug

CITY OF WINTER GARDEN - GENERAL NOTES:

1. ALL UTILITY SYSTEMS AND IMPROVEMENTS CONSTRUCTED IN THE CITY OF WINTER GARDEN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MANUAL OF STANDARDS AND SPECIFICATIONS FOR UTILITY CONSTRUCTION FOR THE CITY OF WINTER GARDEN, TO BE REFERRED TO AS MSS/CWG. THE LATEST EDITION AT THE TIME PERMITS ARE APPROVED SHALL BE EFFECTIVE FOR THE DURATION OF THE SUBJECT WORK OR PROJECT DEVELOPMENT.
2. THE CITY OF WINTER GARDEN GENERAL NOTES AND DETAILS ARE PROVIDED FOR THE CONVENIENCE OF FIELD PERSONNEL. THEY DO NOT INCLUDE ALL REQUIREMENTS OF THE MSS/CWG. THE CONTRACTOR SHALL REFER TO THE FULL TEXT OF THE MSS/CWG FOR FURTHER DETAIL AND CLARITY WHEN NEEDED.
3. ANY REQUEST FOR VARIANCE OR NONCOMPLIANCE FROM THE MSS/CWG NOTED ABOVE MUST BE APPROVED BY THE CITY ENGINEER OR UTILITIES DIRECTOR.
4. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN EXCAVATING IN CLOSE PROXIMITY TO WATER, WASTEWATER, RECLAIMED WATER AND OTHER UTILITY SYSTEMS. THE CONTRACTOR SHALL COORDINATE UTILITY LOCATIONS WITH RESPECTIVE UTILITY OWNERS AND/OR CALL,"SUNSHINE ONE CALL", 1-800-432-4770 A MINIMUM OF 72 HOURS IN ADVANCE.
5. CONTRACTOR'S DAMAGE OF WINTER GARDEN UTILITY SYSTEM: THE CONTRACTOR SHALL IMMEDIATELY NOTIFY AND REPORT DAMAGE TO THE CITY OF WINTER GARDEN UTILITY DIVISION, (NO MESSAGE) PHONE # 407-656-4100.
6. IMMEDIATE REPAIR OF DAMAGED UTILITY SYSTEM: THE CONTRACTOR SHALL IMMEDIATELY REPAIR ANY DAMAGE TO THE CITY OF WINTER GARDEN UTILITY SYSTEM AS REQUIRED BY THE UTILITY OWNER AT CONTRACTORS COST. IN CASE OF UNRESPONSIVE ACTION BY THE CONTRACTOR, THE CITY RESERVES RIGHT TO REPAIR DAMAGE. THE CONTRACTOR SHALL REIMBURSE THE CITY OF WINTER GARDEN OF ALL REPAIR COST.
7. ADVANCE NOTIFICATION OF CONSTRUCTION: THE CONTRACTOR SHALL NOTIFY CITY OF WINTER GARDEN, UTILITY DIVISION, PH.# 407-656-4100, AT LEAST SEVEN (7) CALENDAR DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY.
8. ADVANCE NOTIFICATION OF UTILITY CONNECTION: THE CONTRACTOR SHALL NOTIFY THE CITY OF WINTER GARDEN AT LEAST SEVEN CALENDAR DAYS IN ADVANCE TO SCHEDULE CONNECTIONS TO UTILITY SYSTEM.
9. UTILITY VALVE OPERATION: ONLY CITY OF WINTER GARDEN UTILITY PERSONNEL SHALL OPERATE VALVES AND FIRE HYDRANTS. THE CONTRACTOR, WHEN NEEDED, SHALL CALL THE CITY TO REQUEST VALVE OPERATIONS AT LEAST TWO (2) DAYS IN ADVANCE OF CONSTRUCTION WORK.
10. OPERATIONS INVOLVING WATER OR WASTEWATER FACILITIES INCLUDING PUMPING STATIONS: THE CONTRACTOR SHALL COORDINATE AT LEAST TWO (2) WEEKS IN ADVANCE, ANY CONSTRUCTION OPERATION THAT MAY REQUIRE THE DISCONTINUATION OF SERVICE OR OPERATION OF A FACILITY. THE CITY WILL PROVIDE PERSONNEL TO OPERATE THE CITY FACILITIES.
11. REQUIRED TESTING BY CONTRACTOR: THE CONTRACTOR SHALL NOTIFY THE CITY OF WINTER GARDEN AT LEAST TWO (2) DAYS PRIOR TO SAMPLING ACTIVITIES FOR PURPOSE OF TESTING AS REQUIRED BY THE CITY. THE CONTRACTOR SHALL NOT TEST OR SAMPLE WITHOUT OBSERVATION BY CITY INSPECTION PERSONNEL.
12. TEMPORARY OR CONSTRUCTION WATER SERVICE CONNECTIONS PROVIDED BY FIRE HYDRANT CONNECTION: THE CITY WILL PROVIDE METER ON FIRE HYDRANT. THE CONTRACTOR SHALL PROVIDE NON-REFUNDABLE ACCOUNT INITIATION FEE, A REFUNDABLE SECURITY DEPOSIT FOR THE METER APPARATUS AND PAY ALL COST FOR WATER USED.
13. ALL AS-BUILT MEASUREMENTS & ELEVATIONS ARE TO BE MADE BY A LICENSED LAND SURVEYOR.

CITY OF WINTER GARDEN - WASTEWATER SYSTEM NOTES:

1. SANITARY SEWER MAINS AND SERVICES SHALL BE PVC SDR-26 (MINIMUM). FITTINGS SHALL BE SDR-26. DUCTILE IRON IS NOT APPROVED FOR SANITARY SEWERS.
2. ALL SERVICES SHALL BE 6" (MINIMUM) DIAMETER AND TERMINATE AT THE PROPERTY LINE WITH 6" CLEAN OUT. (36" TO 48" DEEP AT LOT LINE)
3. MAGNETIC TAPE MUST BE PLACED 2' ABOVE THE TOP OF PIPE FOR THE ENTIRE LENGTH OF ALL MAINS AND SERVICES.
4. ALL SANITARY MANHOLES SHALL BE PAINTED INSIDE AND OUT WITH "BITUMASTIC SUPER SERVICE BLACK", BY KOPPERS OR APPROVED EQUAL. MANHOLES RECEIVING FLOW FROM FORCE MAINS SHALL BE LINED WITH FIBERGLASS, HDPE OR EPOXY AT THE PRECASTERS FACILITY.
5. ALL PIPE CONNECTIONS TO PRE-CAST MANHOLES SHALL BE MADE USING A FLEXIBLE EPDM RUBBER BOOT AND STAINLESS STEEL STRAP OR CAST IN BOOT BY A-LOK, Z-LOK OR EQUAL.
6. CONNECTIONS MADE TO EXISTING MANHOLES SHALL BE CORE BORED WITH A MINIMUM 6" BORE AND CONNECTION SEALED WITH FLEXIBLE BOOT AND STAINLESS STEEL CLAMP.
7. DEAD END MANHOLES SHALL HAVE A MINIMUM OF 5 FEET OF COVER FROM FINISHED GRADE TO OUTLET PIPE INVERT.
8. ALL PRECAST SEWER MANHOLES SHALL HAVE A 4 FOOT MINIMUM HIGH BARREL. CONE SECTIONS SHALL BE 3 FOOT MAXIMUM. CONCRETE DONUTS FOR EXTENDING ARE ACCEPTABLE TO RAISE MANHOLES UP TO 1 FOOT MAXIMUM.
9. THE CONTRACTOR SHALL PROVIDE AND INSTALL BALLCENTRIC PLUG VALVES IN FORCE MAINS AT 1000 FOOT MAXIMUM SPACING BETWEEN VALVES. VALVES SHALL BE LOCATED AT ALL TEES AND CROSSES.
10. THE CONTRACTOR SHALL CUT A "S" INTO CONCRETE CURB LOCATED INSIDE OF A PAINTED GREEN SQUARE BOX, IN FRONT OF EACH SERVICE LOCATION.
11. THE CONTRACTOR SHALL PROVIDE TV INSPECTION OF ALL SANITARY SEWER MAINS AFTER SYSTEM IS COMPLETED, THOROUGHLY CLEANED, DRAINED AND FULLY VISIBLE. TV INSPECTION SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATIONS. FAULTY INSPECTION DUE TO POOR CONDITIONS WILL REQUIRE REINSPECTION BY CONTRACTOR.
12. THE CONTRACTOR SHALL PROVIDE A (WARRANTY) TV INSPECTION AT THE TWO YEAR IN SERVICE MILESTONE FOR EACH SYSTEM.
13. THE CONTRACTOR SHALL PROVIDE SANITARY SEWER TESTING, EXFILTRATION OR AIR, AS REQUIRED BY DESIGN ENGINEER AND SUBMIT CERTIFIED RESULTS TO THE CITY ENGINEER.
14. GRAVITY SEWERS DEPTHS SHALL NOT EXCEED 18 FEET.
15. THE DESIGN ENGINEER SHALL PROVIDE A MINIMUM OF ONE FOOT OF FREEBOARD BETWEEN THE LOWEST FINISHED FLOOR ELEVATION AND THE TOP ELEVATION OF THE WET WELL.
16. ALL PENETRATIONS INTO CONCRETE STRUCTURES SHALL BE PRE-CAST OR CORE-DRILLED.
17. WARRANTY – ALL MATERIALS & EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR SHALL BE WARRANTED FOR A PERIOD OF TWO YEARS FROM THE DATE OF FINAL ACCEPTANCE THEREOF AGAINST DEFECTIVE MATERIALS, DESIGN, AND WORKMANSHIP. UPON RECEIPT OF NOTICE FROM THE CITY OF FAILURE OF ANY PART OF THE WARRANTED EQUIPMENT OR MATERIALS DURING THE WARRANTY PERIOD, THE AFFECTED PART, PARTS, OR MATERIALS SHALL BE PROMPTLY REPLACED BY THE CONTRACTOR WITH NEW PARTS OR MATERIALS AT NO EXPENSE TO THE CITY. IN THE EVENT THE CONTRACTOR FAILS TO MAKE THE NECESSARY REPLACEMENT OR REPAIRS IMMEDIATELY AFTER NOTIFICATION, THE CITY MAY ACCOMPLISH THE WORK AT THE EXPENSE OF THE CONTRACTOR.

CITY OF WINTER GARDEN - WATER SYSTEM NOTES:

1. THE CONTRACTOR SHALL PROVIDE AND INSTALL A CITY APPROVED BACKFLOW DEVICE ASSEMBLY AT EACH CONNECTION POINT TO THE CITY WATER SYSTEM.
2. THE CONTRACTOR SHALL HYDROSTATICALLY TEST ALL WATER MAINS AND SERVICE LATERALS AT 150 PSI FOR A TWO HOUR PERIOD. TESTING MUST BE OBSERVED BY A CITY INSPECTOR.
3. THE CONTRACTOR SHALL INSTALL WARNING TAPE OVER ALL NEW WATER MAINS. WARNING TAPE SHALL BE AS FOLLOWS: NON-DETECTABLE, SIZE 3" WITH "WATER LINE BELOW", MUST BE PLACED 8" TO 12" BELOW FINISHED GRADE ON ALL PVC WATER MAINS, LATERALS AND HEADER TEES, NUMBER 10 GAUGE TRACER WIRE SHALL BE ATTACHED TO THE TOP OF THE PIPE WITH DUCT TAPE, AT LEAST FIVE TIMES PER JOINT. THE TRACER WIRE SHALL ALSO BE ATTACHED TO ALL PVC LATERALS AND ATTACHED TO THE OUTSIDE OF EACH VALVE BOX SO THAT A PIPE LOCATOR CAN BE CONNECTED TO IT.
4. THE CONTRACTOR SHALL INSTALL WATER MAINS PER MoSS/CoWG SPECIFICATIONS. SOLVENT CEMENTED JOINTS AND THRUST BLOCKS ON PIPING SYSTEMS SHALL NOT BE ALLOWED.
5. THE CONTRACTOR SHALL INSTALL ALL WATER MAINS TO A MINIMUM DEPTH OF 36 INCHES AND A MAXIMUM DEPTH OF 42 INCHES BELOW FINAL GRADE.
6. THE CONTRACTOR SHALL INSTALL ALL SERVICE LATERALS A UNIFORM DISTANCE APART. LOCATED ON PROPERTY LOT LINE AT 90° FROM THE WATER MAIN. SERVICE LATERALS SHALL BE SEPARATELY CONNECTED TO THE WATER MAIN, NOT SPLICED TOGETHER.
7. THE CONTRACTOR SHALL CUT A "W" INTO CONCRETE CURB, LOCATED INSIDE OF A PAINTED BLUE SQUARE, LOCATED DIRECTLY IN FRONT OF EACH SERVICE LATERAL.
8. THE CONTRACTOR SHALL INSTALL CURB STOP, IN METER BOX, CURB STOP SHALL BE SET 8" BELOW FINISHED GRADE.
9. THE CONTRACTOR SHALL PROVIDE AND INSTALL IN-LINE VALVES ON WATER MAINS AT 1,000 FOOT MAXIMUM SPACING BETWEEN VALVES. VALVES SHALL BE LOCATED ON ALL TEE'S AND CROSSES. WATER MAINS SHALL BE PLACED UNDER SIDEWALKS WHERE POSSIBLE.
10. ALL WATERMAINS SHALL BE CLEANED BY PIGGING THE LINE WITH A FOAM PIG (MINIMUM OF 2 IN SERIES, 1 FLUSH). A FULL BORE FLUSH MAY BE REQUIRED AFTER PIGGING TO ENSURE THE PIPE IS CLEAN AND READY FOR SERVICE. THE CONTRACTOR SHALL COORDINATE LINE PIGGING AND FULL BORE FLUSH WITH THE CITY INSPECTOR.
11. THE CONTRACTOR SHALL DEMONSTRATE THAT LOCATION WIRE INSTALLED OVER ALL WATER MAINS IS IN WORKING CONDITION AT TIME OF ACCEPTANCE BY THE CITY.
12. ALL NEW SUBDIVISION CONSTRUCTION SHALL INSTALL DOUBLE POTABLE WATER SERVICES AT THE PROPERTY LINES.

CITY OF WINTER GARDEN - RECLAIMED WATER SYSTEM NOTES:

1. ALL PRIVATE RECLAIMED WATER SYSTEMS SHALL HAVE A CITY APPROVED BACKFLOW DEVICE ASSEMBLY AT EACH CONNECTION POINT WHEN CONNECTED TO THE CITY POTABLE WATER SYSTEM.
2. ALL MAINS AND SERVICE LATERALS SHALL BE HYDROSTATICALLY TESTED AT 150 PSI FOR A TWO HOUR PERIOD.
3. WARNING TAPE, NON-DETECTABLE, SIZE 3" WITH "REUSE WATER LINE BELOW", MUST BE PLACED 8" TO 12" BELOW FINISHED GRADE ON ALL PVC WATER MAINS, LATERALS AND HEADER TEES, NUMBER 10 GAUGE TRACER WIRE SHALL BE ATTACHED TO THE TOP OF THE PIPE WITH DUCT TAPE, AT LEAST FIVE TIMES PER JOINT. THE TRACER WIRE SHALL ALSO BE ATTACHED TO ALL PVC LATERALS AND ATTACHED TO THE OUTSIDE OF EACH VALVE BOX SO THAT A PIPE LOCATOR CAN BE CONNECTED TO IT. THE CONTRACTOR SHALL DEMONSTRATE THE LOCATE WIRE TO BE IN WORKING CONDITION AT PROJECT COMPLETION.
4. THE CONTRACTOR SHALL INSTALL RECLAIMED WATER MAINS PER MoSS/CoWG. SOLVENT CEMENTED JOINTS AND THRUST BLOCKS SHALL NOT BE ALLOWED.
5. REUSE WATER MAIN SHALL BE BURIED TO A MINIMUM DEPTH OF 36" AND A MAXIMUM DEPTH 42" BELOW FINAL GRADE.
6. SERVICE LATERALS MUST BE LOCATED A UNIFORM DISTANCE APART AND ALIGNED TO PROPERTY LOT LINE AT 90° FROM THE RECLAIMED WATERMAIN.
7. CUSTOMER SERVICE LATERALS SHALL NOT BE SPLICED TOGETHER BETWEEN THE WATER MAIN AND CURB STOP.
8. THE CONTRACTOR SHALL CUT CURB A "R" INTO CONCRETE CURB LOCATED INSIDE OF A PAINTED SQUARE (PURPLE), DIRECTLY IN FRONT OF EACH SERVICE LATERAL AND VALVE.
9. THE CONTRACTOR SHALL SET DEPTH OF CURB STOP, IN METER BOX, 8" BELOW FINISHED GRADE.
10. THE CONTRACTOR SHALL INSTALL VALVE(S) IN MAIN, NO MORE THAN 1,000 FEET APART IN BETWEEN TEES AND CROSSES. VALVES SHALL BE PROVIDED AT EACH TEE OR CROSS LOCATED IN MAIN LINE.
11. RECLAIMED WATER MAINS MAY BE LOCATED UNDER SIDEWALKS. RECLAIMED MAINS LOCATED UNDER PAVEMENT SHOULD BE MINIMIZED.
12. ALL WATERMAINS SHALL BE CLEANED BY PIGGING THE LINE WITH A FOAM PIG (MINIMUM OF 2 IN SERIES, 1 FLUSH). A FULL BORE FLUSH MAY BE REQUIRED AFTER PIGGING TO ENSURE THE PIPE IS CLEAN AND READY FOR SERVICE. THE CONTRACTOR SHALL COORDINATE LINE PIGGING AND FULL BORE FLUSH WITH THE CITY INSPECTOR.
13. RECLAIMED WATERMAIN MAINS SHALL BE 8 INCH DIAMETER MINIMUM, 4 INCH IS ALLOWED ON DEAD END RUNS SERVING LESS THAN 20 HOMES. THE DESIGN ENGINEER SHALL SUBMIT HYDRAULIC CALCULATIONS THAT DEMONSTRATE THE PROPOSED SYSTEM WILL PROVIDE REQUIRED FLOWS AND MAINTAIN SYSTEM ABOVE MINIMUM PRESSURE. PEAK IRRIGATION RATE SHALL BE SIX(6) TIMES GREATER THAN THE AVERAGE IRRIGATION RATE OF FLOW.
14. RECLAIMED WATER SYSTEM COMPONENTS INCLUDING PIPE, VALVE BOX TOPS AND METER BOX TOPS SHALL BE RECLAIMED PURPLE IN COLOR.

CLOSED CIRCUIT TELEVISION (CCTV) INSPECTION OF SEWER LINES

GENERAL:

1. ALL NEW SANITARY SEWER LINES, PRIVATE OR CITY MAINTAINED, IN THE CITY OF WINTER GARDEN'S SERVICE AREA SHALL BE INSPECTED BY CLOSED CIRCUIT TV INSPECTION BY THE CONTRACTOR WITH A CITY INSPECTOR PRESENT PRIOR TO BEING ACCEPTED BY THE CITY.

REQUIREMENTS PRIOR TO INSPECTION RELEASE:

1. ALL ELEMENTS OF THE SEWER SYSTEM MUST BE INSTALLED AND BE COMPLETELY FINISHED, INCLUDING MAIN SEWER LINES, LATERALS, CLEAN OUTS, AND MANHOLES PRIOR TO CCTV INSPECTION.
2. ALL SEWER LINES SHALL BE COMPLETELY CLEANED OF ALL DEBRIS, SAND, WATER, ETC. PRIOR TO THE CCTV INSPECTION. ANY OBJECT OR MATTER THAT PREVENTS CCTV INSPECTION FROM VIEWING CONDITION OF PIPELINE IS CONSIDERED AN OBSTRUCTION REQUIRING ADDITIONAL CLEANING. WHEN CCTV VIEW IS OBSTRUCTED, INSPECTION SHALL BE TERMINATED. THE CONTRACTOR SHALL CLEAN THE SEWER SYSTEM COMPLETELY AND RESCHEDULE CCTV RE-INSPECTION WITH THE CITY.
3. A HYDRAULIC SEWER CLEANER SHALL NOT BE USED DURING THE CCTV INSPECTION. IF LINES ARE FOUND TO BE OBSCURED BY WATER OR DEBRIS DURING THE CCTV INSPECTION, THE INSPECTION SHALL BE TERMINATED AND RESCHEDULED TO A TIME WHEN SEWER CLEANING IS COMPLETE.
4. WHEN A SEWER LINE IS UNDER A PAVED AREA, THE AREA SHALL BE COMPACTED AND PRIMED BEFORE THE SYSTEM SHALL BE RELEASED FOR TV INSPECTION.

TELEVISION EQUIPMENT MINIMUM REQUIREMENTS:

1. THE CLOSED CIRCUIT TV CAMERA SHALL PRODUCE A CLEAR COLOR PICTURE ON THE MONITOR AND ON THE DVD RECORDING. THE CAMERA SHALL BE ABLE TO SHOW DETAIL TO THE POINT THAT ALL JOINTS AND ANY DEFECTS MAY BE READILY SEEN AT THE TIME OF THE INSPECTION. THE CAMERA SHALL STOP AND PAN AT EACH JOINT FOR COMPLETE 360 DEGREE INSPECTION.
2. REFER TO APPENDIX B OF THE REFERENCED STANDARDS FOR SPECIFICATION OF CLOSED CIRCUIT TELEVISION INSPECTION EQUIPMENT.
3. THE VIDEO RECORDER SHALL PRODUCE A NO NOISE STILL PICTURE, AND PROVIDE BOTH AUDIO AND VIDEO DURING THE INSPECTION.
4. A MEASURING DEVICE, APPROVED BY THE CITY, TO CHECK THE GRADE OF THE PIPE DURING THE INSPECTION, SHALL BE REQUIRED. GAUGE DEPTH, 0" TO 2" MIN. WITH 1/2" MARKINGS.
5. AUDIO OF THE INSPECTION SHALL BE SIMULTANEOUSLY RECORDED ON DVD DISC. THE AUDIO SHALL CONSIST OF ORDINARY DESCRIPTION AND COMMENTARY. A TAPE WILL BE GIVEN TO THE INSPECTOR ON SITE AT THE END OF THE DAY.

PROCEDURE FOR TELEVISING:

1. THE CITY'S ENGINEERING INSPECTION DIVISION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS NOTICE PRIOR TO THE TIME PLANNED FOR THE TV INSPECTION TO COMMENCE. A DEFINITE TIME AND DATE WILL BE AGREED UPON BY THE CONTRACTOR AND INSPECTOR AT THAT TIME.
2. NO INSPECTION SHALL COMMENCE WITHOUT THE PRESENCE OF THE INSPECTOR, EXCEPT WHEN PRIOR ARRANGEMENTS HAVE BEEN MADE BETWEEN THE CONTRACTOR, INSPECTOR, AND THE CITY. TV INSPECTION SHALL BE PERFORMED BY THE CONTRACTOR AT THE EXPENSE OF THE CONTRACTOR.
3. ALL CCTV INSPECTIONS SHALL COMMENCE UP STREAM OF THE SYSTEM TO PREVENT FOREIGN SUBSTANCES FROM ENTERING A SECTION PREVIOUSLY TELEVISED. THE CAMERA SHALL BE STARTED FROM THE DOWNSTREAM MANHOLE AND PROCEED UPSTREAM IN DIRECTION OPPOSING THE NORMAL FLOW IN THE LINE. THIS PROCEDURE WILL ALLOW FOR THE VIEWING OF THE SERVICE LATERALS.
4. BEFORE THE CAMERA IS PLACED IN THE SEWER LINE, WATER WITH YELLOW OR ORANGE DYE SHALL BE PUT INTO THE UPSTREAM MANHOLE OF THE SECTION BEING TELEVISED. CAMERA WILL HAVE A GAUGE SHOWING 1/2" MARKS FROM 1/2" TO 2-1/2". THIS WILL ENABLE THE CAMERA TO DETECT ANY CHANGES IN GRADE THAT MAY BE PRESENT IN THE SYSTEM.
5. THE CCTV AND DVD RECORDER SHALL BE TURNED ON BEFORE THE CAMERA IS PLACED IN THE MANHOLE FOR INSPECTION AND SHALL NOT BE TURNED OFF UNTIL THE CAMERA IS REMOVED FROM THE MANHOLE. THE CAMERA SHALL BE MOVED THROUGH THE LINE UNDER THE CONTROL OF THE CCTV CAMERA OPERATOR. THE CAMERA SHALL BE DRAWN THROUGH THE LINE AT A RATE NOT TO EXCEED THIRTY (30) FEET PER MINUTE AND SHALL STOP AT ALL SERVICE CONNECTIONS AND PIPE JOINTS IN THE PIPELINE.
6. A DVD RECORDING SHALL BE MADE OF THE ENTIRE SYSTEM BEING TELEVISED. THIS SHALL BECOME THE PROPERTY OF THE CITY UPON COMPLETION OF THE TV INSPECTION (NOT A COPY). THE TAPE(S) SHALL BE LABELED IN SUCH A MANNER THAT STATES THE PROJECT NAME, DATE OF INSPECTION AND LINE SECTION ACCORING TO CONSTRUCTION PLANS CONTAINED ON EACH TAPE. A WRITTEN REPORT SHALL ACCOMPANY THE DVD DISC.

HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS

PROPOSED UTILITY	POTABLE WATER		RECLAIMED WATER✻		SANITARY SEWER (GRAVITY)		SANITARY SEWER (FORCEMAIN)		STORM WATER		ACCEPTABLE VARIANCES
	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.	
POTABLE WATER	–	–	3'	12"	6'	12"	6'	12"	3'	6" A 12" B	SEE GENERAL NOTES: NO. 4 & 5
RECLAIMED WATER✻	3'	12"	–	–	3'	6" A 12" B	3'	12"	–	–	
SANITARY SEWER (GRAVITY)	6'	12"	3'	6" A 12" B	–	–	–	–	–	–	
SANITARY SEWER (FORCEMAIN)	6'	12"	3'	12"	–	–	–	–	–	–	

GENERAL NOTES:

1. THE TABLE REPRESENTS THE MINIMUM SEPARATION REQUIREMENTS AS DESCRIBED IN F.D.E.P. RULES OF THE FLORIDA ADMINISTRATION CODE (F.A.C.). THESE SEPARATION REQUIREMENTS SHALL APPLY BETWEEN NEWLY PROPOSED UTILITY LINES AND EXISTING OR PROPOSED UTILITY LINES AND EXISTING OR PROPOSED UTILITY LINES.

✻2. FOR THE PURPOSE OF THIS TABLE, RECLAIMED WATER SHALL MEAN UNRESTRICTED PUBLIC ACCESS REUSE WATER AS DEFINED BY F.A.C. 162-610, CHAPTER III. OTHER TYPES OF RECLAIMED WATER ARE CONSIDERED RAW SEWAGE AND SEPARATIONS LISTED FOR SANITARY SEWER SHALL APPLY.

3. ALL SEPARATION DISTANCES ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE UNLESS OTHERWISE SPECIFIED. CRITERION PRODUCING GREATER CLEARANCE SHALL BE USED.

   A. DENOTES POTABLE WATER ABOVE RECLAIMED WATER, SANITARY SEWER OR STORM WATER; OR RECLAIMED WATER ABOVE SANITARY SEWER.

   B. DENOTES POTABLE WATER BELOW RECLAIMED WATER, SANITARY SEWER OR STORM WATER; OR RECLAIMED WATER BELOW SANITARY SEWER.

4. UTILITY SEPARATION – VERTICAL CLEARANCE MITIGATION

   A. WHERE WATER AND GRAVITY SANITARY SEWER MAINS CROSS WITH LESS THAN REQUIRED VERTICAL CLEARANCE OR THE SEWER MAIN IS ABOVE THE WATER MAIN, THE SANITARY SEWER WILL BE 20 FEET OF EITHER:

      A.1. DUCTILE IRON PIPE, CENTERED ON THE POINT OF CROSSING, OR;

      A.2. CONCRETE ENCASED VITRIFIED CLAY, OR;

      A.3. PVC PIPE UPGRADED TO WATER MAIN STANDARDS AND PRESSURE TESTED.

   B. WHERE WATER MAINS AND STORM SEWER PIPES CROSS WITH LESS THAN REQUIRED VERTICAL CLEARANCE, THE WATER MAIN SHALL BE 20 FEET OF DUCTILE IRON PIPE CENTERED ON THE POINT OF CROSSING.

   C. SEPARATION REQUIREMENTS BETWEEN FORCE MAINS AND POTABLE WATER MAINS MUST BE MAINTAINED UNLESS APPROVED IN ADVANCE BY THE DEPARTMENT.

5. UTILITY SEPARATION – HORIZONTAL SEPARATION MITIGATION

   A. WHEN A WATER MAIN PARALLELS A GRAVITY SANITARY SEWER MAIN, A SEPARATION (MEASURED EDGE TO EDGE) OF AT LEAST SIX FEET SHOULD BE MAINTAINED. WHERE THIS SEPARATION IS NOT MET, ONE OF THE FOLLOWING MUST OCCUR.

      A.1. THE WATER MAIN IS LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 6 INCHES ABOVE THE TOP OF THE SEWER, OR:

      A.2. IF BOTH SANITARY SEWER AND POTABLE WATER MAINS ARE PROPOSED AND THE ABOVE (1.) IS NOT MET, THE SANITARY SEWER PIPES SHALL BE UPGRADED TO THE EQUIVALENT PIPE MATERIAL AS THE WATER MAIN AND PRESSURE TESTED.

      A.3. IF THE SANITARY SEWER IS EXISTING AND THE POTABLE WATER MAIN IS PROPOSED, THE WATER MAIN SHALL, AT A MINIMUM, BE UPGRADED TO DUCTILE IRON PIPE, CONSTRUCTED IN SEPARATE TRENCHES, LAID AT A HIGHER ELEVATION THAN THE SANITARY SEWER, AND UTILIZE STAGGERED JOINTS.

   B. SEPARATION REQUIREMENTS BETWEEN FORCE MAINS AND POTABLE WATER MAINS MUST BE MAINTAINED UNLESS APPROVED IN ADVANCE BY THE DEPARTMENT.

6. NO WATER PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SANITARY OR STORM WATER MANHOLE OR STRUCTURE.

CITY OF WINTER GARDEN - TRUST RESTRAINT TABLE

RESTRAINED FORCE MAIN PIPE TABLE MINIMUM LENGTH(FT) TO BE RESTRAINED ON EACH SIDE OF FITTING(S)	PIPE SIZE								
	6"	8"	10"	12"	16"	20"	24"	30"	36"
90° BEND	19	25	30	34	44	52	60	70	80
45° BEND	8	10	12	14	18	21	25	30	34
22-1/2° BEND	4	5	6	7	9	10	12	14	16
11-1/4° BEND	2	3	4	5	6	7	8	9	10
PLUG, DEAD END OR BRANCH OF TEE	40	52	63	72	93	111	130	155	178
VALVE	20	25	32	36	47	56	78	116	89

RESTRAINED WATER AND RECLAIMED PIPE TABLE MINIMUM LENGTH(FT) TO BE RESTRAINED ON EACH SIDE OF FITTING(S)	PIPE SIZE								
	6"	8"	10"	12"	16"	20"	24"	30"	36"
90° BEND	29	37	44	51	65	77	89	105	120
45° BEND	12	15	18	21	27	32	37	44	50
22-1/2° BEND	6	7	9	10	13	15	18	21	24
11-1/4° BEND	3	4	5	6	7	8	9	10	12
PLUG, DEAD END OR BRANCH OF TEE	59	77	93	108	138	166	194	231	265
VALVE	59	77	93	108	138	166	194	231	265

THRUST RESTRAINT NOTES:

1. THE TABLES INDICATE MINIMUM LENGTHS OF RESTRAINED JOINTS ON EACH SIDE OF FITTINGS AND CHANGES IN DIRECTION, WHERE PRACTICAL, FULL LENGTHS OF RESTRAINED PIPE SHALL BE LAID TO ACHIEVE THE REQUIRED MINIMUM RESTRAINT.
2. WHERE COMBINATIONS OF FITTINGS ARE USED, THE PIPING BETWEEN THE FITTINGS SHALL BE RESTRAINED. THE MINIMUM RESTRAINED LENGTH OF PIPE REQUIRED UPSTREAM AND DOWNSTREAM OF THE COMBINATION OF FITTINGS SHALL BE DETERMINED ON THE BASIS OF ONE EQUIVALENT FITTING (I.E., 2-45 DEGREE BENDS WILL BE CONSIDERED AS THOUGH A 90° BEND WERE LOCATED MIDWAY BETWEEN THE TWO 45° BENDS).
3. FOR PIPE THAT IS ENCASED IN POLYETHYLENE, RESTRAINED JOINTS MINIMUM LENGTHS SHALL BE INCREASED BY 50 PERCENT.
4. FOR FITTINGS OTHER THAN THOSE PRESENTED IN THE ABOVE TABLES, RESTRAINED JOINT LENGTHS SHALL BE DETERMINED IN ACCORDANCE WITH "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" BY THE DUCTILE IRON PIPE RESEARCH ASSOCIATION. RESTRAINED JOINT LENGTHS FOR A GIVEN PRESSURE RANGE SHALL BE BASED ON THE MAXIMUM PRESSURE FOR THE TEST PRESSURE RANGE, SM (SAND SILT) SOIL, 3-FEET DEPTH, LAYING CONDITION NO. 3 AND FACTOR OF SAFETY OF 1.5.
5. IN-LINE VALVES: PROVIDE MECHANICAL RESTRAINT ON EACH SIDE OF THE VALVE.
6. ALL RECLAIMED WATER PIPING SHALL BE HYDROSTATICALLY TESTED AT A PRESSURE OF 150 PSI. ALL WASTEWATER PIPING SHALL BE HYDROSTATICALLY TESTED AT A PRESSURE OF 100 PSI.

WINTER GARDEN STANDARDS INCORPORATED WITH DESIGN ENGINEERS DOCUMENTS:

THE DETAILS, NOTES AND SPECIFICATIONS SHOWN ON THIS SHEET REPRESENT THE NOTED STANDARDS OF THE CITY OF WINTER GARDEN FOR CONSTRUCTION OF PUBLIC WORKS AND UTILITY INFRASTRUCTURE. BY INCLUDING THE STANDARDS, THE DESIGN ENGINEER HAS ACKNOWLEDGED THAT THEY ARE EFFECTIVE TO THE PROJECT AND THAT DETAILS, NOTES, OR SPECIFICATIONS ARE AS PROVIDED BY THE CITY AND HAVE NOT BEEN REVISED OR MODIFIED WITHOUT WRITTEN APPROVAL FROM THE CITY ENGINEER OR UTILITY DIRECTOR.

No.	ITEM	DATE
1	Revised General Notes	4/4/14
2	Revised Water & Reuse Notes	4/4/14

REVISIONS

CITY OF WINTER GARDEN, FLORIDA
STANDARDS AND SPECIFICATIONS
FOR UTILITY CONSTRUCTION

STANDARD DETAILS
FOR
UTILITY SYSTEMS

DATE
JANUARY 2024
SHEET
1
1 OF 11

LINN ENGINEERING & DESIGN, INC.
P.O. BOX 140024
ORLANDO, FL 32814
PHONE: 407-775-5194
clinn@linnengineering.com

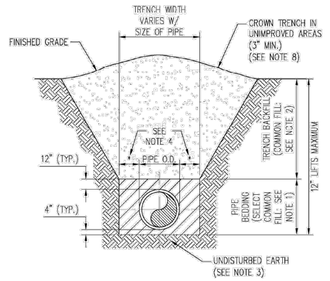
SCALE AS NOTED
DESIGNED BY CSL
DRAWN BY YKD
CHECKED BY CSL
DESIGN ENGINEER: CHAD S. LINN, P.E.
FLORIDA REGISTRATION NUMBER: 57524
SEAL

CITY OF WINTER GARDEN
UTILITY NOTES

ENCORE WINTER GARDEN
13905 W. COLONIAL DR.
WINTER GARDEN, FL 34787
CITY OF WINTER GARDEN FLORIDA

DATE 12/24
PROJECT NO. 99100-24-100
SHEET NUMBER C07

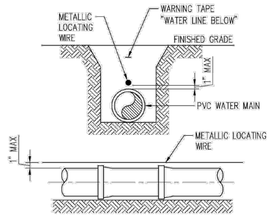
Drawing name: Z:\Projects\99100 - Albu\24-200 Encore Winter Garden\CAD-Civil\C07 Winter Garden Details.dwg c07 notes Mar 14, 2025 12:51pm by Doug



NOTES:

1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 98% OF THE MAXIMUM DENSITY AS PER AASHTO T-180 AND CONTAINING NO MORE THAN 5% PASSING #200 SIEVE.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 98% OF THE MAXIMUM DENSITY AS PER AASHTO T-180 AND CONTAINING NO MORE THAN 5% PASSING #200 SIEVE.
3. PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH TYPE A BEDDING AND TRENCHING MAY BE REQUIRED AS DIRECTED BY THE CITY OF WINTER GARDEN.
4. (*): 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 24" LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. REFER TO SECTION 32.5 OF THE CITY OF WINTER GARDEN MANUAL OF STANDARDS AND SPECIFICATIONS FOR WASTEWATER AND WATER MAIN CONSTRUCTION FOR SHEETING AND BRACING IN EXCAVATIONS.
8. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN CITY OF WINTER GARDEN RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.

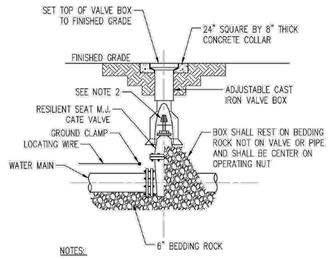
1 STANDARD BEDDING DETAIL
N.T.S.



NOTES:

1. PVC PIPE SHALL REQUIRE INSULATED METALLIC LOCATING WIRE (10 GAUGE COPPER) CAPABLE OF DETECTION BY A CABLE LOCATOR AND SHALL BE ATTACHED TO THE TOP OF PIPE WITH DUCT TAPE, AT LEAST 5 TIMES PER JOINT.
2. LOCATING ROD SHALL TERMINATE AT THE TOP OF EACH VALVE BOX AND BE CAPABLE OF EXTENDING ABOVE TOP OF BOX 3" SO AS NOT TO INTERFERE WITH VALVE OPERATION.

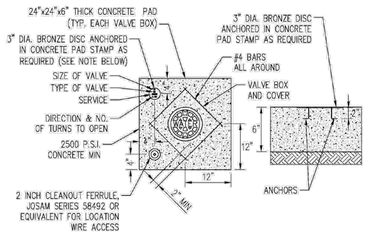
2 PVC PIPE LOCATING WIRE DETAIL
N.T.S.



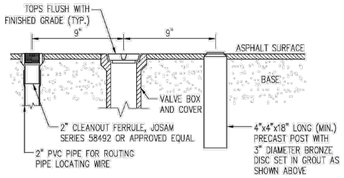
NOTES:

1. PVC EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION.
2. THE ACTUATING NUT FOR DEEPER VALVES SHALL BE EXTENDED TO COME UP TO 4 FOOT DEPTH BELOW FINISHED GRADE.

3 GATE VALVE & BOX DETAIL
N.T.S.



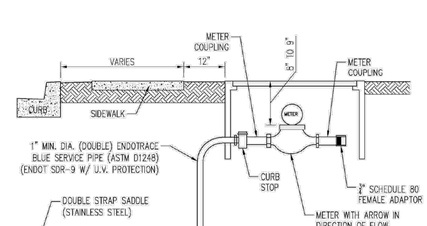
UNIMPROVED CONDITION



IMPROVED CONDITION

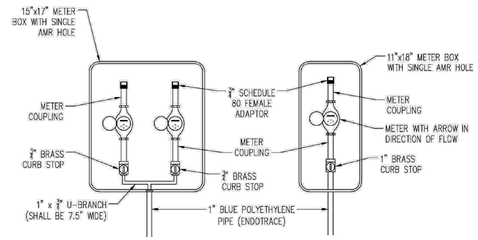
NOTE:
BRONZE IDENTIFICATION DISC SHALL BE REQUIRED FOR ALL VALVES.

7 VALVE BOX COLLAR
N.T.S.



NOTE:
THE TAIL PIECE SHALL INCLUDE THE 3/4" FEMALE ADAPTOR AND ALL PIPE AND FITTINGS UP TO AND INCLUDING THE CAP.

SERVICE SECTION
N.T.S.



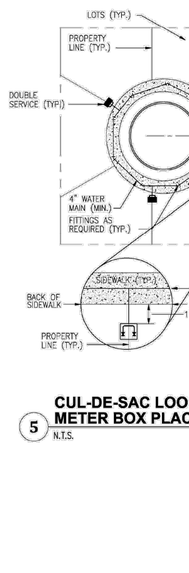
DOUBLE SERVICE (TOP VIEW)
N.T.S.

SINGLE SERVICE (TOP VIEW)
N.T.S.

NOTES:

1. ALL FITTINGS BETWEEN THE WATER MAIN AND THE METER COUPLING SHALL BE BRASS WITH COMPRESSION/PACK JOINT CONNECTIONS.
2. NO SERVICE LINE SHALL TERMINATE UNDER A DRIVEWAY.
3. EACH SERVICE SHALL TERMINATE IN A METER BOX ASSEMBLY, WHICH SHALL BE PLACED TO GRADE IN THE UTILITY EASEMENT AT THE PROPERTY LINE(S) OF THE LOT(S) TO BE SERVED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION TO AND INCLUDING THE METER BOX ASSEMBLY. THE CITY SHALL FURNISH THE METER AND THE TAIL PIECE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING THE METER BOX ASSEMBLY TO FINISH GRADE AND MAKING ANY GRADE ADJUSTMENTS TO THE METER BOX IF REGRADING OCCURS.
5. ALL SERVICE LINES SHALL BE POLY ENDOTRACE PIPE AND SHALL BE BLUE IN COLOR W/WIRE.
6. THE POINT OF CONNECTION IS LOCATED ONE FOOT BEYOND THE METER BOX. THE PLUMBER/CUSTOMER SHALL BE RESPONSIBLE FOR MAINTENANCE BEYOND THE POINT OF CONNECTION.
7. IN NO CASE IS METER TO BE INSTALLED IN SIDEWALK OR OTHER PAVED AREAS.

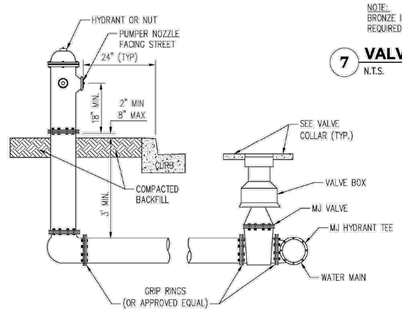
8 WATER SERVICE DETAIL
N.T.S.



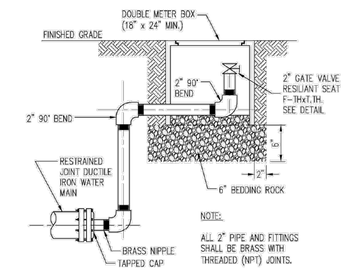
NOTES:

1. ANCHORING TYPE 90° BEND SHALL ONLY BE USED WHERE RIGHT-OF-WAY CONSTRICTIONS WILL NOT ALLOW INSTALLATION OF A STRAIGHT ASSEMBLY.
2. METER BOX TO BE INSTALLED BY THE CONTRACTOR.

5 CUL-DE-SAC LOOPING AND METER BOX PLACEMENT DETAIL
N.T.S.

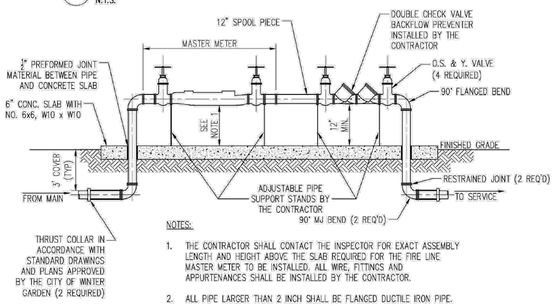


6 FIRE HYDRANT ASSEMBLY
N.T.S.



NOTE:
ALL 2" PIPE AND FITTINGS SHALL BE BRASS WITH THREADED (NPT) JOINTS.

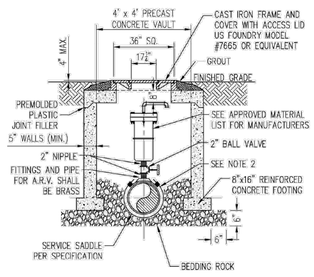
4 BLOWOFF VALVE DETAIL
N.T.S.



NOTES:

1. THE CONTRACTOR SHALL CONTACT THE INSPECTOR FOR EXACT ASSEMBLY LENGTH AND HEIGHT ABOVE THE SLAB REQUIRED FOR THE FIRE LINE MASTER METER TO BE INSTALLED. ALL WIRE, FITTINGS AND APPURTENANCES SHALL BE INSTALLED BY THE CONTRACTOR.
2. ALL PIPE LARGER THAN 2 INCH SHALL BE FLANGED DUCTILE IRON PIPE.
3. SENSUS METER REQUIRED.
4. 2" BYPASS METER SHALL BE CONSTRUCTED ON ALL MASTER METER ASSEMBLIES THREE INCHES AND LARGER.

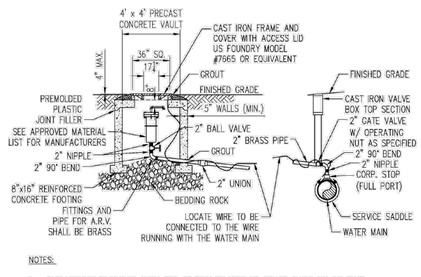
9 MASTER METER ASSEMBLY
N.T.S.



NOTES:

1. THE MINIMUM DIMENSION FROM TOP OF PIPE TO FINISHED GRADE SHALL BE 3.0 FEET.
2. DOUBLE STRAP SADDLE AND WRAP WITH TWO LAYERS OF WIDE PLASTIC OR POLY TAPE WITH STAINLESS STEEL STRAP.
3. PIPE INSTALLATION SHALL BE SUCH THAT THE A.R.V. IS LOCATED AT THE HIGHEST POINT IN THE RESPECTIVE SEGMENT.
4. INTERIOR AND EXTERIOR CONCRETE SURFACES SHALL RECEIVE PROTECTIVE COATING AS SPECIFIED FOR VALVE VAULTS.
5. CAST IRON FRAME, COVER AND ACCESS LID SHALL BE INSTALLED FLUSH WITH FINISHED GRADE.
6. COVER SHALL READ "WINTER GARDEN UTILITIES DIVISION AND "POTABLE WATER".
7. NO GALVANIZED PIPE/VALVES.

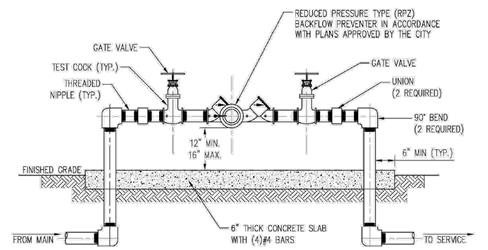
10 AIR RELEASE VALVE & VAULT
N.T.S.



NOTES:

1. THE MINIMUM DIMENSION FROM TOP OF PIPE TO FINISHED GRADE SHALL BE 4.0 FEET.
2. DOUBLE STRAP SADDLE AND WRAP WITH TWO LAYERS OF WIDE PLASTIC OR POLY TAPE WITH STAINLESS STEEL STRAP.
3. PIPE INSTALLATION SHALL BE SUCH THAT THE A.R.V. IS LOCATED AT THE HIGHEST POINT IN THE RESPECTIVE SEGMENT.
4. INTERIOR AND EXTERIOR CONCRETE SURFACES SHALL RECEIVE PROTECTIVE COATING AS SPECIFIED FOR VALVE VAULTS.
5. CAST IRON FRAME, COVER AND ACCESS LID SHALL BE INSTALLED FLUSH WITH FINISHED GRADE.
6. COVER SHALL READ "WINTER GARDEN UTILITIES DIVISION, "SEWER" "RECLAIMED WATER OR POTABLE WATER".
7. NO GALVANIZED PIPE/VALVES.
8. LOCATE WIRE IN THE ARV VAULT SHALL BE SPLICED TO THE WIRE RUNNING WITH THE WATER MAIN AND EXCESS WIRE TO BE PLACED IN ARV VAULT. THE POINT OF CONNECTION AT THE MAIN SHALL HAVE A WATER PROOF CONNECTOR.

11 OFFSET AIR RELEASE VALVE ASSEMBLY
N.T.S.



NOTES:

1. ALL PIPE AND FITTINGS 2" AND SMALLER SHALL BE THREADED SCHEDULE 80 PVC. NO GALVANIZED PIPE WILL BE APPROVED.
2. ALL PIPE LARGER THAN 2" SHALL BE FLANGED DUCTILE IRON PIPE.
3. NO GALVANIZED PIPE ALLOWED.

12 BACKFLOW PREVENTER ASSEMBLY
N.T.S.

WINTER GARDEN STANDARDS INCORPORATED WITH DESIGN ENGINEERS DOCUMENTS:

THE DETAILS, NOTES AND SPECIFICATIONS SHOWN ON THIS SHEET REPRESENT THE NOTED STANDARDS OF THE CITY OF WINTER GARDEN FOR CONSTRUCTION OF PUBLIC WORKS AND UTILITY INFRASTRUCTURE. BY INCLUDING THE STANDARDS, THE DESIGN ENGINEER HAS ACKNOWLEDGED THAT THEY ARE EFFECTIVE TO THE PROJECT AND THAT DETAILS, NOTES, OR SPECIFICATIONS ARE AS PROVIDED BY THE CITY AND HAVE NOT BEEN REVISED OR MODIFIED WITHOUT WRITTEN APPROVAL FROM THE CITY ENGINEER OR UTILITY DIRECTOR.

No.	ITEM	DATE
1	Water Service	4/4/14
2	ARV Detail	4/4/14
3	Service Detail Update	1/24

REVISIONS

LINN ENGINEERING & DESIGN, INC.
P.O. BOX 140024
ORLANDO, FL 32814
PHONE: 407-775-5194
clinn@linnengineering.com

SCALE: AS NOTED
DESIGNED BY: CSL
DRAWN BY: YKD
CHECKED BY: CSL
DESIGN ENGINEER: CHAD S. LINN, P.E.
FLORIDA REGISTRATION NUMBER: 57524
SEAL

CITY OF WINTER GARDEN, FLORIDA
STANDARDS AND SPECIFICATIONS
FOR UTILITY CONSTRUCTION

CITY OF WINTER GARDEN
POTABLE WATER
DETAILS

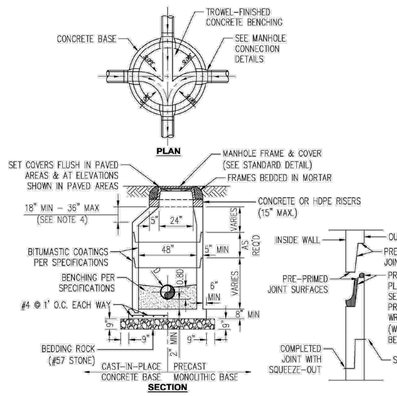
STANDARD DETAILS
FOR
POTABLE WATER SYSTEMS

DATE
JANUARY 2024
SHEET
2
2 OF 11

ENCORE WINTER GARDEN
13905 W. COLONIAL DR.
WINTER GARDEN, FL 34787
CITY OF WINTER GARDEN FLORIDA

DATE 12/24
PROJECT NO. 99100-24-100
SHEET NUMBER C08

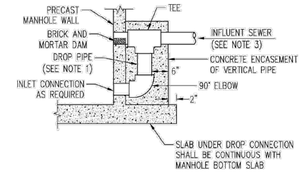
Drawing name: Z:\Projects\99100 - Albu\24-200 Encore Winter Garden\CAD-Civil\C08 Winter Garden Details.dwg c07 notes Mar 14, 2025 12:57pm by: Doug



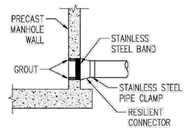
NOTES:

1. DROP CONNECTIONS ARE REQUIRED WHENEVER INVERT OF INFLUENT SEWER IS 24" OR MORE ABOVE THE INVERT OF THE MANHOLE. SEE MANHOLE CONNECTION DETAILS. ALL DROPS TO BE OUTSIDE OF THE MANHOLE.
2. E-Z RAPP OUTSIDE ALL JOINTS
3. GROUT WITH NON-SHRINKING GROUT INSIDE JOINTS
4. NO CONES OVER 3 FT. TALL
5. ALL PRECAST CONCRETE SHALL BE COATED INSIDE AND OUTSIDE WITH COAL TAR EPOXY, MINIMUM 16 MIL DMT.

1 PRECAST CONCRETE SANITARY MANHOLE
N.T.S.



STANDARD DROP CONNECTION

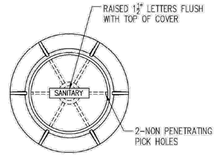


PRECAST MANHOLE CONNECTION

NOTES:

1. DROP PIPE AND FITTINGS SHALL BE OF EQUAL SIZE AND MATERIAL AS THE INFLUENT SEWER.
2. AN OUTSIDE DROP CONNECTION SHALL BE REQUIRED FOR ALL INFLUENT WHICH HAVE AN INVERT 2' OR MORE ABOVE THEN MANHOLE INVERT.

2 MANHOLE CONNECTION DETAIL
N.T.S.

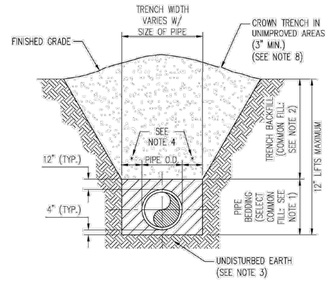


ELEVATION

NOTES:

1. MANHOLE FRAME & COVER SHALL BE 24" OPENINGS, USE #AS-225 AS MANUFACTURED BY U.S. FOUNDRY & MFG. CORP. OR COMPOSITE ACCESS PRODUCTS H-25 PRODUCT.
2. RAIN STOPPER LIDS OR RAIN GUARD LIDS (LFHS) REQUIRED.

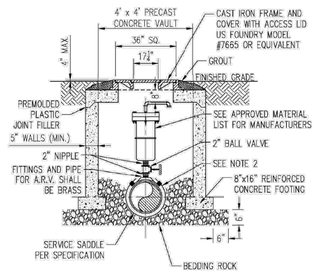
3 MANHOLE FRAME AND COVER
N.T.S.



NOTES:

1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 98% OF THE MAXIMUM DENSITY AS PER AASHTO T-180 AND CONTAINING NO MORE THAN 5% PASSING #200 SIEVE.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 98% OF THE MAXIMUM DENSITY AS PER AASHTO T-180 AND CONTAINING NO MORE THAN 5% PASSING #200 SIEVE.
3. PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH TYPE A BEDDING AND TRENCHING MAY BE REQUIRED AS DIRECTED BY THE CITY OF WINTER GARDEN.
4. (*): 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 24" LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. REFER TO SECTION 32.5 OF THE CITY OF WINTER GARDEN MANUAL OF STANDARDS AND SPECIFICATIONS FOR WASTEWATER AND WATER MAIN CONSTRUCTION FOR SHEETING AND BRACING IN EXCAVATIONS.
8. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN CITY OF WINTER GARDEN RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.

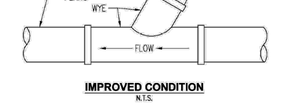
4 STANDARD BEDDING DETAIL
N.T.S.



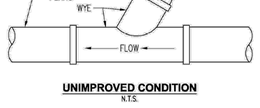
NOTES:

1. THE MINIMUM DIMENSION FROM TOP OF PIPE TO FINISHED GRADE SHALL BE 3.0 FEET.
2. DOUBLE STRAP SADDLE AND WRAP WITH TWO LAYERS OF WIDE PLASTIC OR POLY TAPE WITH STAINLESS STEEL STRAP.
3. PIPE INSTALLATION SHALL BE SUCH THAT THE A.R.V. IS LOCATED AT THE HIGHEST POINT IN THE RESPECTIVE SEGMENT.
4. INTERIOR AND EXTERIOR CONCRETE SURFACES SHALL RECEIVE PROTECTIVE COATING AS SPECIFIED FOR VALVE VAULTS.
5. CAST IRON FRAME, COVER AND ACCESS LID SHALL BE INSTALLED FLUSH WITH FINISHED GRADE.
6. COVER SHALL READ "WINTER GARDEN UTILITIES DIVISION AND "WASTEWATER".
7. NO GALVANIZED PIPE/VALVES.

5 AIR RELEASE VALVE & VAULT
N.T.S.

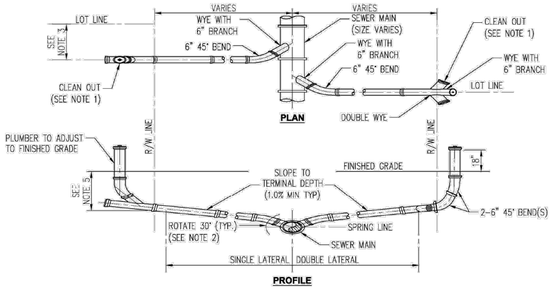


IMPROVED CONDITION
N.T.S.



UNIMPROVED CONDITION
N.T.S.

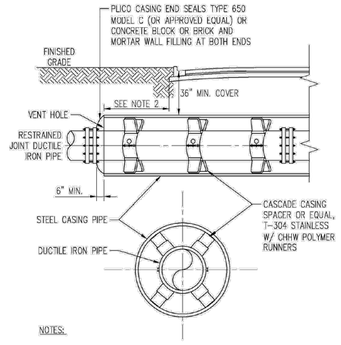
6 SANITARY SEWER CLEAN OUT DETAIL
N.T.S.



NOTES:

1. CLEANOUT SHALL BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH STANDARD PLUMBING CODE.
2. INVERT OF SERVICE LATERAL SHALL NOT ENTER SEWER MAIN BELOW SPRING LINE.
3. WYES AND 45° BENDS SHALL BE PVC (SDR 26).
4. LOCATE SINGLE LATERAL AS CLOSE TO LOT LINE AS POSSIBLE, 25' MAXIMUM.
5. 4' TYP TERMINAL DEPTH (3' MIN) REQUIRED FOR SERVICE AT RIGHT-OF-WAY.

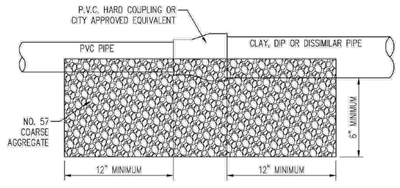
7 SANITARY SEWER SERVICE LATERAL DETAIL
N.T.S.



NOTES:

1. WHERE PRACTICAL, CASING SHALL EXTEND 8' BEYOND EDGE OF PAYMENT AND SHALL NOT BE LESS THAN 6' BEYOND EDGE OF PAYMENT IN ANY CASE.
2. CASING SPACERS AND END SEALS TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
3. DESIGN ENGINEER TO DETERMINE NEED FOR SACRIFICIAL ANODE (S) FOR CORROSION CONTROL.

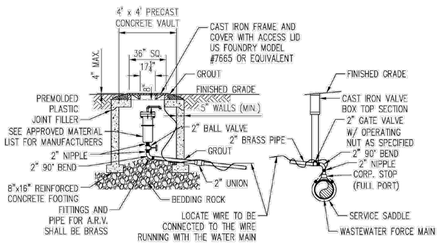
8 SEWER MAIN STEEL CASING DETAIL
N.T.S.



NOTE:

1. FIELD VERIFY MATERIALS OF EXISTING PIPES TO SELECT PROPER CONNECTOR.
2. HARBCO COUPLING OR APPROVED EQUIVALENT FOR ALL PIPE MATERIALS, UNLESS APPROVED IN WRITING BY THE CITY.

9 SEWER MAIN CONNECTION DETAIL
N.T.S.



NOTES:

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5. CAST IRON FRAME, COVER AND ACCESS LID SHALL BE INSTALLED FLUSH WITH FINISHED GRADE.
6. COVER SHALL READ "WINTER GARDEN UTILITIES DIVISION, "SEWER" "RECLAIMED WATER OR POTABLE WATER".
7. NO GALVANIZED PIPE/VALVES.
8. LOCATE WIRE IN THE ARV VAULT SHALL BE SPLICED TO THE WIRE RUNNING WITH THE MAIN AND EXCESS WIRE TO BE PLACED IN ARV VAULT. THE POINT OF CONNECTION AT THE MAIN SHALL HAVE A WATER PROOF CONNECTOR.

10 OFFSET AIR RELEASE VALVE ASSEMBLY
N.T.S.

WINTER GARDEN STANDARDS INCORPORATED WITH DESIGN ENGINEERS DOCUMENTS:

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No.	ITEM	DATE
1	Sanitary Manhole	4/7/14
2	Offset ARV Detail	4/7/14
3	MH Ring & Cover	1/24

REVISIONS

CITY OF WINTER GARDEN, FLORIDA
STANDARDS AND SPECIFICATIONS
FOR UTILITY CONSTRUCTION

LINN ENGINEERING & DESIGN, INC.
P.O. BOX 140024
ORLANDO, FL 32814
PHONE: 407-775-5194
clinn@linnengineering.com

SCALE: AS NOTED
DESIGNED BY: CSL
DRAWN BY: YKD
CHECKED BY: CSL
DESIGN ENGINEER: CHAD S. LINN, P.E.
FLORIDA REGISTRATION NUMBER: 57524
SEAL

STANDARD DETAILS FOR WASTEWATER SYSTEMS

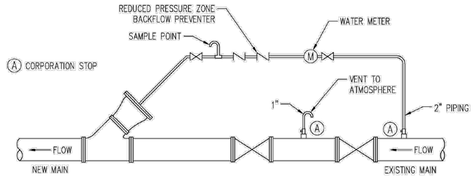
DATE
JANUARY 2024
SHEET
3
3 OF 11

CITY OF WINTER GARDEN
WASTEWATER DETAILS

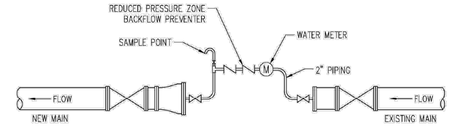
ENCORE WINTER GARDEN
13905 W. COLONIAL DR.
WINTER GARDEN, FL 34787
CITY OF WINTER GARDEN FLORIDA

DATE 12/24
PROJECT NO. 99100-24-100
SHEET NUMBER C09

Drawing name: Z:\Projects\99100 – Albu\24-200 Encore Winter Garden\CAD-Civil\C09 Winter Garden Details.dwg C09 DETAILS Mar 14, 2025 12:59pm by: Doug



OPTION "A"



OPTION "B"

EXCEPT AS INDICATED BELOW FOR SHORT LENGTHS, EACH SECTION OF PIPELINE SHALL BE THOROUGHLY CLEANED WITH ONE POLYURETHANE FOAM PIG EACH TIME.

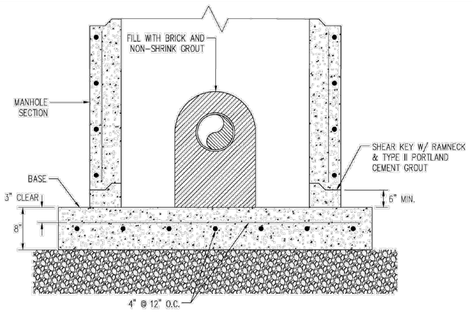
A CITY REPRESENTATIVE SHALL BE PRESENT AT THE TIME OF INSERTION AND EXIT OF THE PIGS. LINES SHALL BE PIGGED AND/OR FLUSHED UNTIL THE WATER RUNS CLEAN AND IS APPROVED BY THE CITY REPRESENTATIVE. THE CITY REPRESENTATIVE SHALL BE GIVEN 48 HOURS MINIMUM NOTICE PRIOR TO PIGGING OR FLUSHING.

ON SHORT LENGTHS OF PIPELINE (100' MAX) CLEANING MAY BE ACCOMPLISHED BY FLUSHING WITH WATER AT A MINIMUM VELOCITY OF 2.5 FEET PER SECOND. WATER REQUIRED FOR TESTING AND CLEANING SHALL BE SUPPLIED BY THE CITY AT THE CONTRACTOR'S EXPENSE. WATER SHALL BE FROM A POTABLE SOURCE SATISFACTORY TO THE CITY.

NOTES:

1. REDUCER TO BE NEW MAIN SIZE PLUS 2" LARGER.
2. WYE TO BE PLUGGED AND RESTRAINED AT THE END OF PIGGING.
3. AT THE END OF THE PROJECT, ALL CORPORATIONS TO BE REMOVED AND CORPORATION PLUGS TO BE INSTALLED.
4. SAMPLE POINT TO BE LOCATED AFTER BACKFLOW PREVENTER.
5. ALL MATERIALS, PIPE, AND FITTINGS SHALL CONFORM THE THE CITY OF WINTER GARDEN STANDARDS.
6. INSTALL REDUCER WITH PIG INSIDE. ONLY ONE PIG WILL BE ALLOWED TO BE RUN THROUGH THE MAIN AT A TIME. PIPE EXTENSION CAP MAY BE REQUIRED.
7. PIGGING PROCEDURE TO BE PERFORMED AT LEAST TWICE.

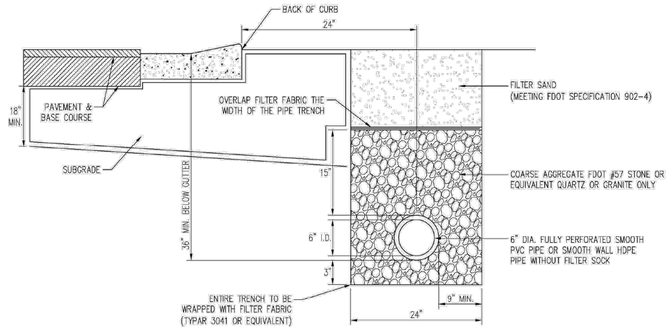
1 PIPE PIGGING DETAIL
N.T.S.



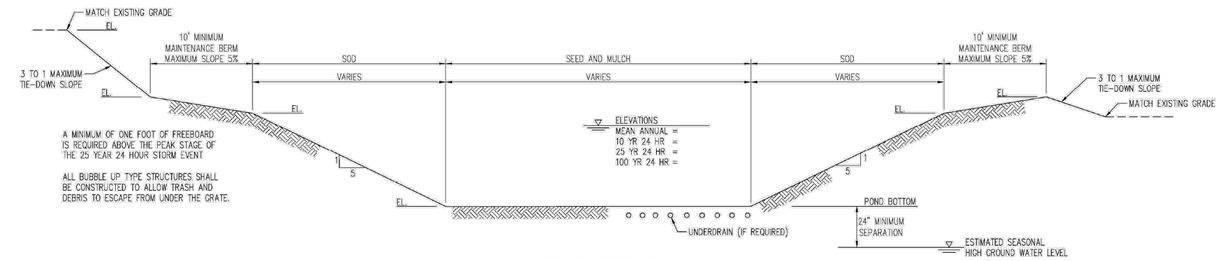
NOTES:

1. TO CONSTRUCT NEW MANHOLE OVER EXISTING SEWER, SLIDE BASE UNDER PIPE AND SET MANHOLE SECTION ON TOP.
2. FOR ADDITIONAL DETAILS NOT SHOWN, SEE "GRAVITY SEWER MANHOLE STANDARD.
3. AT THE END OF THE PROJECT, ALL CORPORATIONS TO BE REMOVED AND CORPORATION PLUGS TO BE INSTALLED. CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPORT OF EXISTING SEWER DURING INSTALLATION OF MANHOLE.

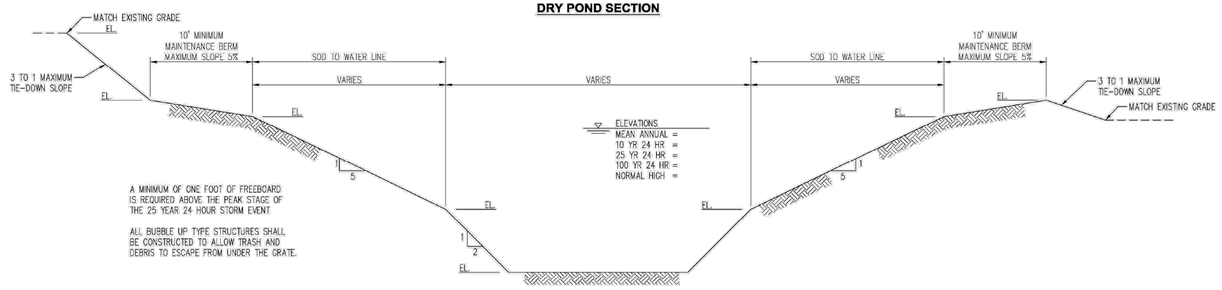
2 GRAVITY SEWER DOGHOUSE MANHOLE
N.T.S.



3 UNDERDRAIN DETAIL
N.T.S.



DRY POND SECTION



WET POND SECTION

4 POND SECTIONS
N.T.S.

WINTER GARDEN STANDARDS INCORPORATED WITH DESIGN ENGINEERS DOCUMENTS:

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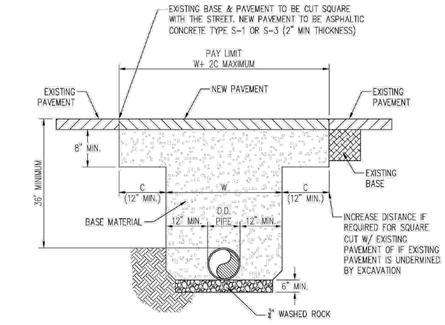


W = O.D. OF PIPE + 12" MIN. AT BOTH SIDES OF PIPE

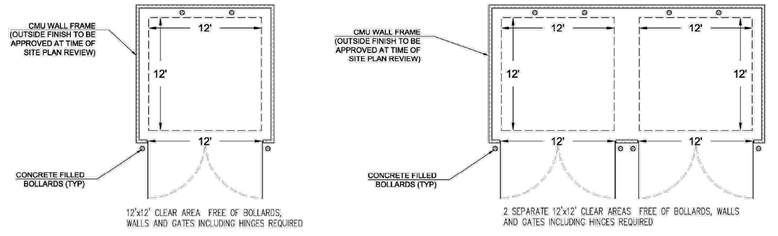
C = VARIES W/ SOIL TYPE
(CONTACT ENGINEER OF RECORD FOR DETERMINATION IN THE FIELD)

NOTE:
ALL BACKFILL COMPACTION SHALL BE 98% OF MAXIMUM DENSITY.

5 PAVEMENT RESTORATION DETAIL
N.T.S.

THE BACKGROUND COLOR SHALL BE RETROREFLECTIVE GREEN AND THE LETTERING AND BORDER SHALL BE RETROREFLECTIVE WHITE.

6 STREET SIGN BLADE DETAIL
N.T.S.



7 DUMPSTER LAYOUT DETAIL
N.T.S.

No.	ITEM	DATE

REVISIONS

CITY OF WINTER GARDEN, FLORIDA
STANDARDS AND SPECIFICATIONS
FOR UTILITY CONSTRUCTION

STANDARD DETAILS
FOR
MISCELLANEOUS DETAILS

DATE
JANUARY 2024
SHEET
11
11 OF 11

No.	REVISIONS	DATE	BY

LINN ENGINEERING & DESIGN, INC.
P.O. BOX 140024
ORLANDO, FL 32814
PHONE: 407-775-5194
clinn@linnengineering.com

SCALE AS NOTED
DESIGNED BY CSL
DRAWN BY YKD
CHECKED BY CSL

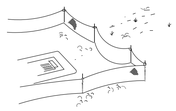
DESIGN ENGINEER: CHAD S. LINN, P.E.
FLORIDA REGISTRATION NUMBER: 57524
SEAL

CITY OF WINTER GARDEN
MISCELLANEOUS DETAILS

ENCORE WINTER GARDEN
13905 W. COLONIAL DR.
WINTER GARDEN, FL 34787
CITY OF WINTER GARDEN FLORIDA

DATE 12/24
PROJECT NO. 99100-24-100
SHEET NUMBER C10

Drawing name: Z:\Projects\99100 - Albu\24-200 Encore Winter Garden\CAD-Civil\C10 Winter Garden Details.dwg C10 DETAILS Mar 14, 2025 1:24pm by: Doug

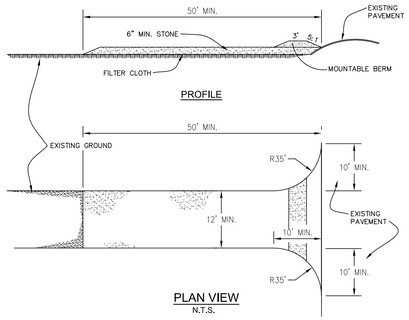


Type III Silt Fence Protection
Around Ditch Bottom Inlets.

PUT FILTER FABRIC UNDER GRATE

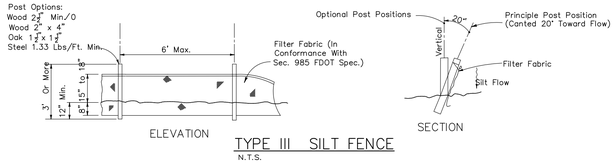
Do not deploy in a manner that silt fences will act as a dam across permanent flowing watercourses. Silt fences are to be used at upland locations and turbidity barriers used at permanent bodies of water.

SILT FENCE APPLICATIONS



STABILIZED CONSTRUCTION ENTRANCE

1. STONE SIZE – USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – AS REQUIRED, BUT NOT LESS THAN 50 FEET.
3. THICKNESS – NOT LESS THAN SIX (6) INCHES.
4. WIDTH – TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. FILTER CLOTH – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING – WHEELS SHALL BE CLEANED TO REMOVED SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.



TYPE III SILT FENCE
N.T.S.

BEST MANAGEMENT PRACTICES:

THIS PLAN HAS BEEN PREPARED TO ENSURE COMPLIANCE WITH APPROPRIATE CONDITIONS OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP), THE MUNICIPALITY LAND DEVELOPMENT REGULATIONS AND ST. JOHNS RIVER WATER MANAGEMENT DISTRICT (SJRWMD), THE PLAN ADDRESSES THE FOLLOWING AREAS:

1. GENERAL EROSION CONTROL.
2. PROTECTION OF SURFACE WATER QUALITY DURING AND AFTER CONSTRUCTION.
3. CONTROL OF WIND EROSION.

THE VARIOUS TECHNIQUES OR ACTIONS IDENTIFIED UNDER EACH SECTION INDICATE THE APPROPRIATE SITUATION WHEN THE TECHNIQUES SHOULD BE EMPLOYED. IT SHOULD BE NOTED THAT THE MEASURES IDENTIFIED ON THIS PLAN ARE ONLY SUGGESTED BMP(S). THE CONTRACTOR SHALL PROVIDE POLLUTION PREVENTION AND EROSION CONTROL MEASURES AS SPECIFIED IN FDOT INDEX #100 AND AS NECESSARY FOR EACH SPECIFIC APPLICATION

SECTION 1 GENERAL EROSION CONTROL:

1.1 GENERAL EROSION CONTROL BEST MANAGEMENT PRACTICES SHALL BE EMPLOYED TO MINIMIZE SOIL EROSION AND POTENTIAL POND SLOPE CAVE-INS. WHILE THE VARIOUS TECHNIQUES REQUIRED WILL BE SITE AND PLAN SPECIFIC, THEY SHOULD BE EMPLOYED AS SOON AS POSSIBLE DURING CONSTRUCTION ACTIVITIES.

1.2 SLOPES OF BANKS OF RETENTION/DETENTION PONDS SHALL BE CONSTRUCTED NOT STEEPER THAN 3H:1V FROM TOP OF BANK TO POND BOTTOM.

1.3 SOD SHALL BE PLACED FOR A MIN. 2-FOOT WIDE STRIP ADJOINING ALL CURBING AND AROUND ALL INLETS SOD SHALL BE PLACED BEFORE SILT BARRIERS ARE REMOVED.

SECTION 2 PROTECTION OF SURFACE WATER QUALITY DURING AND AFTER CONSTRUCTION:

2.1 SURFACE WATER QUALITY SHALL BE MAINTAINED BY EMPLOYING THE FOLLOWING BEST MANAGEMENT PRACTICES IN THE CONSTRUCTION PLANNING AND CONSTRUCTION OF ALL IMPROVEMENTS.

2.2 WHERE PRACTICAL, STORMWATER SHALL BE CONVEYED BY SWALES.

2.3 EROSION CONTROL MEASURES SHALL BE EMPLOYED TO MINIMIZE TURBIDITY OF SURFACE WATERS LOCATED DOWNSTREAM OF ANY CONSTRUCTION ACTIVITY. WHILE THE VARIOUS MEASURES REQUIRED WILL BE SITE SPECIFIC, THEY SHALL BE EMPLOYED AS NEEDED IN ACCORDANCE WITH THE FOLLOWING:

A. IN GENERAL, EROSION SHALL BE CONTROLLED AT THE FURTHEST PRACTICAL UPSTREAM LOCATION.
B. STORMWATER INLETS SHALL BE PROTECTED DURING CONSTRUCTION AS SHOWN ON THIS SHEET. PROTECTION MEASURES SHALL BE EMPLOYED AS SOON AS PRACTICAL DURING THE VARIOUS STAGES OF INLET CONSTRUCTION. SILT BARRIERS SHALL REMAIN IN PLACE UNTIL SODDING AROUND INLETS IS COMPLETE.

2.4 HEAVY CONSTRUCTION EQUIPMENT PARKING AND MAINTENANCE AREAS SHALL BE DESIGNED TO PREVENT OIL, GREASE, AND LUBRICANTS FROM ENTERING SITE DRAINAGE FEATURES INCLUDING STORMWATER COLLECTION AND TREATMENT SYSTEMS. CONTRACTORS SHALL PROVIDE BROAD DIKES, HAY BALES OR SILT SCREENS AROUND, AND SEDIMENT SUMPS WITHIN, SUCH AREAS AS REQUIRED TO CONTAIN SPILLS OF OIL, GREASE OR LUBRICANTS. CONTRACTORS SHALL HAVE AVAILABLE, AND SHALL USE, ABSORBENT FILTER PADS TO CLEAN UP SPILLS AS SOON AS POSSIBLE AFTER OCCURRENCE.

2.5 SILT BARRIERS, ANY SILT WHICH ACCUMULATES BEHIND THE BARRIERS, AND ANY FILL USED TO ANCHOR THE BARRIERS SHALL BE REMOVED PROMPTLY AFTER THE END OF THE MAINTENANCE PERIOD SPECIFIED FOR THE BARRIERS.

2.6 WHERE REQUIRED TO PREVENT EROSION FROM SHEET FLOW ACROSS BARE GROUND FROM ENTERING A LAKE OR SWALE, A TEMPORARY SEDIMENT SUMP SHALL BE CONSTRUCTED. THE TEMPORARY SEDIMENT SUMP SHALL REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED ON THE GROUND DRAINING TO THE SUMP.

2.7 ALL PAINT(S) AND OTHER HAZARDOUS MATERIALS SHALL BE CONTAINED WITHIN A SINGLE ON-SITE AREA WITHIN SEALED CONTAINERS.

2.8 INSPECTION AND MAINTENANCE PROCEDURES FOR CONTROL MEASURES IDENTIFIED IN THE PLAN:

A. THE CONTRACTOR IS REQUIRED TO PROVIDE A QUALIFIED INSPECTOR TO PERFORM AND DOCUMENT REQUIRED INSPECTIONS.
B. ALL DISTURBED AREAS, STORAGE AREAS, AND CONSTRUCTION EXITS MUST BE INSPECTED. THIS INCLUDES OFF-SITE CONSTRUCTION AREAS.
C. INSPECTIONS MUST BE COMPLETED ONCE EVERY SEVEN DAYS AND/OR WITHIN 24 HOURS OF A STORM EVENT OF 0.5 INCHES OR GREATER (CONTRACTOR TO PROVIDE AN ON-SITE RAIN GAUGE AND PROVIDE DAILY RECORDING OF RAIN EVENTS).
D. ALL AREAS OF UNSATISFACTORY CONTROLS (INCLUDING EXISTING CONTROL MEASURES OR AREAS REQUIRING ADDITIONAL CONTROL MEASURES) SHALL BE REPAIRED/MAINTAINED/INSTALLED WITHIN 24 HOURS OF THE OBSERVANCE OR PRIOR TO AN ANTICIPATED RAIN EVENT IF FORECAST SOONER THAN 24 HOURS.

2.9 ALL WATER RUNOFF RESULTING FROM SOURCES OTHER THAN RAINFALL EVENTS (I.E. BLOW-OFF FROM HYDRO-STATIC TESTING, PROCESS WATER FROM VEHICLE WASHDOWN, ETC.) SHALL BE DIRECTED TOWARDS THE ON-SITE SURFACE WATER MANAGEMENT SYSTEM, WHETHER IN TEMPORARY OR FINAL CONDITION, SO THAT IT HAS NO ADVERSE IMPACTS TO DOWNSTREAM WATER QUALITY CONDITIONS.

SECTION 3 CONTROL OF WIND EROSION:

3.1 WIND EROSION SHALL BE CONTROLLED BY EMPLOYING THE FOLLOWING METHODS AS NECESSARY AND APPROPRIATE:

A. BARE EARTH AREAS SHALL BE WATERED DURING CONSTRUCTION AS NECESSARY TO MINIMIZE THE TRANSPORT OF FUGITIVE DUST. IT MAY BE NECESSARY TO LIMIT CONSTRUCTION VEHICLE SPEED IF BARE EARTH HAS NOT BEEN EFFECTIVELY WATERED. IN NO CASE SHALL FUGITIVE DUST BE ALLOWED TO LEAVE THE SITE UNDER CONSTRUCTION.

B. AS SOON AS PRACTICAL AFTER COMPLETION OF CONSTRUCTION, BARE EARTH AREAS SHALL BE VEGETATED.

C. AT ANY TIME BOTH DURING AND AFTER SITE CONSTRUCTION THAT WATERING AND/OR VEGETATION ARE NOT EFFECTIVE IN CONTROLLING WIND EROSION AND/OR TRANSPORT OF FUGITIVE DUST, OTHER METHODS AS ARE NECESSARY FOR SUCH CONTROL SHALL BE EMPLOYED. THESE METHODS MAY INCLUDE ERECTION OF DUST CONTROL FENCES. IF REQUIRED, DUST CONTROL FENCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH APPLICABLE STANDARDS.

CLEARING AND SITE PREPARATION NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION OF THE EROSION CONTROL DEVICES, AS SHOWN ON THE CONSTRUCTION PLANS, PRIOR TO ANY SITE CLEARING AND/OR DEMOLITION. REFER TO THE "EROSION CONTROL NOTES" SECTION CONTAINED HEREIN FOR ADDITIONAL REQUIREMENTS.

2. PRIOR TO ANY SITE CLEARING, ALL TREES SHOWN TO REMAIN, AS INDICATED ON THE CONSTRUCTION PLANS, SHALL BE PROTECTED IN ACCORDANCE WITH LOCAL TREE ORDINANCES, AND DETAILS CONTAINED IN THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THESE TREES IN GOOD CONDITION. NO TREE(S) SHOWN TO REMAIN SHALL BE REMOVED WITHOUT WRITTEN APPROVAL FROM THE OWNER AND THE LOCAL AGENCY HAVING JURISDICTION OVER THESE ACTIVITIES.

3. THE CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE SITE NECESSARY FOR CONSTRUCTION. ALL DISTURBED AREAS MUST BE SEEDED, MULCHED, SODDED OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIAL, IMMEDIATELY FOLLOWING CONSTRUCTION.

4. THE TOP 4" TO 6" OF GROUND REMOVED DURING CLEARING AND GRUBBING ACTIVITIES SHALL BE STOCKPILED, TO BE USED FOR LANDSCAPING PURPOSES, UNLESS OTHERWISE DIRECTED BY THE OWNER. REMAINING EARTHWORK THAT RESULTS FROM CLEARING AND GRUBBING OR SITE EXCAVATION IS TO BE UTILIZED ON-SITE, PROVIDED THE MATERIAL IS DEEMED SUITABLE BY THE OWNER'S SOILS TESTING COMPANY. EXCESS MATERIAL IS TO EITHER BE STOCKPILED ON-SITE, AS DIRECTED BY THE OWNER OR OWNER'S ENGINEER, OR REMOVED FROM THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING ANY EXCESS MATERIAL FROM THE SITE.

5. ALL EXISTING DEBRIS (ABOVE OR BELOW GROUND), CONSTRUCTION DEBRIS AND OTHER WASTE MATERIAL SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR, IN ACCORDANCE WITH APPLICABLE REGULATORY AGENCY REQUIREMENTS.

6. THE CONTRACTOR IS TO PREPARE THE SITE IN ACCORDANCE WITH THE SOILS REPORT, COPIES OF WHICH ARE AVAILABLE THROUGH THE OWNER OR SOILS TESTING COMPANY DIRECTLY.

7. CONTRACTOR TO BE RESPONSIBLE FOR INSTALLATION OF TEMPORARY CONSTRUCTION FENCE AROUND ENTIRE PERIMETER OF PROPERTY. TYPE OF FENCE TO BE SUBMITTED BY CONTRACTOR TO ENGINEER FOR APPROVAL.

8. CONTRACTOR SHALL MAINTAIN STORMWATER MANAGEMENT SYSTEM TO INSURE NO DAMAGE TO ADJACENT PROPERTIES OCCURS DURING STORM EVENTS.

9. DISTURBED AREA(S) WITHIN THE ROW WILL COMPACTED TO 98% OF MAXIMUM DENSITY AND SODDED.

10. DO NOT DISTRUB EXISTING UNDERDRAIN OR STORM SYSTEMS.

11. NO STOCKPILING OF MATERIAL IN ROADWAY OR ON SIDEWALK; ALL DIRT AND DEBRIS WILL BE REMOVED FROM JOB SITE DAILY. ROADS AND SIDEWALK TO BE SWEPT DAILY AS PART OF DAILY CLEAN-UP.

12. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EXISTING CONDITIONS OR BETTER. CONTRACTOR SHALL PROVIDE TO ENGINEER PHOTOGRAPH OF PRE-CONSTRUCTION CONDITIONS AND POST-CONSTRUCTION CONDITIONS AS REQUESTED BY ENGINEER.

13. PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT AND OTHER HAZARDS CREATED BY THE DEMOLITION OPERATION.

14. REMOVE WASTE MATERIALS AND UNSUITABLE AND EXCESS TOPSOIL FROM PROPERTY AND DISPOSE OF OFF SITE IN A LEGAL MANNER.

15. DURING PREPARATION OF THE SUB GRADE AND UNTIL THE PAVING IS IN PLACE, THE CONTRACTOR SHALL PROMPTLY TAKE REASONABLE MEASURES TO OBTAIN AND MAINTAIN A DRY SITE CONDITION. SUCH MEASURES SHALL INCLUDE PUMPING OF FREE SURFACE WATER, MINOR HAND AND/OR MACHINE SHAPING OF FACILITATE WATER REMOVAL, AND OTHER OPERATIONS TO SPEED DRYING.

16. ALL DELETERIOUS SUBSURFACE MATERIAL (I.E. MUCK, PEAT, BURIED DEBRIS, ETC.) IS TO BE EXCAVATED AND REPLACED WITH SUITABLE/COMPACTED SOILS, AS DIRECTED BY THE OWNER, THE OWNERS ENGINEERS, OR OWNERS SOILS TESTING COMPANY. DELETERIOUS MATERIAL IS TO BE STOCKPILED OR REMOVED FROM THE SITE AS DIRECTED BY THE OWNER. EXCAVATED AREAS ARE TO BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE PLANS. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING DELETERIOUS MATERIAL FROM THE SITE.

17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND WILL PROVIDE BRACING, SHEETING OR SHORING AS NECESSARY. DEWATERING METHODS SHALL BE USED AS REQUIRED TO KEEP TRENCHES DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACED.

18. THE CONTRACTOR WILL STABILIZE BY SEED AND MULCH, SOD, OR OTHER APPROVED MATERIALS ANY DISTURBED AREAS WITHIN ONE WEEK FOLLOWING CONSTRUCTION OF THE UTILITY SYSTEMS AND PAVEMENT AREAS. CONTRACTOR SHALL MAINTAIN SUCH AREAS UNTIL FINAL ACCEPTANCE BY OWNER. CONTRACTOR TO COORDINATE WITH OWNER REGARDING TYPE OF MATERIAL, LANDSCAPING AND IRRIGATION REQUIREMENTS.

EROSION AND SILTATION CONTROL:

1. GENERAL – ALL EROSION AND SILTATION CONTROL METHODS SHALL BE IMPLEMENTED PRIOR TO THE START OF CONSTRUCTION. DURING CONSTRUCTION, DENUDED AREAS SHALL BE COVERED BY MULCHES SUCH AS STRAW, HAY AND FILTER FABRIC. ALL STORM SEWER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS OR HAY BALES. THESE SHALL BE MAINTAINED AND MODIFIED DURING THE CONSTRUCTION PROCESS TO MINIMIZE DOWNSTREAM SILTATION. WHEN CONSTRUCTION IS COMPLETED, DETENTION AREAS WILL BE RESHAPED, CLEANED OF SILT, MUD AND DEBRIS, AND RE-SODDED TO PROPERLY DETAIN THE INTENDED STORM QUANTITIES.

2. PROTECTION AND STABILIZATION OF ON-SITE SOIL STOCKPILES – FILL MATERIAL STOCKPILES SHALL BE PROTECTED AT ALL TIMES BY ON-SITE DRAINAGE CONTROLS WHICH PREVENT EROSION OF THE STOCKPILED MATERIAL. CONTROL OF DUST FROM SUCH STOCKPILES MAY BE REQUIRED, DEPENDING UPON THEIR LOCATION AND THE EXPECTED LENGTH OF TIME THE STOCKPILES WILL BE PRESENT. IN NO CASE SHALL ANY UNSTOCKPILED MATERIAL REMAIN MORE THAN THIRTY (30) CALENDAR DAYS AFTER SUBSTANTIAL PROJECT COMPLETION.

3. PROTECTION OF EXISTING STORM SEWER SYSTEMS: DURING CONSTRUCTION, ALL STORM SEWER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS SUCH AS SECURED HAY BALES, SOD, STONE, ETC., WHICH SHALL BE MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS, AND WHICH MUST BE APPROVED BY THE ENGINEER BEFORE INSTALLATION.

4. SEDIMENT BASINS AND TRAPS, SEDIMENT TRAPPING MEASURES: PERIMETER BERMS, SEDIMENT BARRIERS, VEGETATIVE BUFFERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT AND/OR PREVENT THE TRANSPORT OF SEDIMENT ONTO ADJACENT PROPERTIES, OR INTO EXISTING BODIES OF, MUST BE INSTALLED, CONSTRUCTED OR, IN THE CASE OF VEGETATIVE BUFFERS, PROTECTED FROM DISTURBANCE, AS A FIRST STEP IN THE LAND ALTERATION PROCESS. SUCH SYSTEMS SHALL BE FULLY OPERATIVE BEFORE ANY OTHER DISTURBANCE OF THE SITE BEGINS. EARTHEN STRUCTURES INCLUDING BUT NOT LIMITED TO BERMS, EARTH FILTERS, DAMS OR DIKES SHALL BE STABILIZED AND PROTECTED FROM DRAINAGE DAMAGE OR EROSION WITHIN ONE WEEK OF INSTALLATION.

5. ALL SWALES, DITCHES AND CHANNELS: CHANNELS LEADING FROM THE SITE SHALL BE SODDED WITH ARGENTINE BAHIA WITHIN THREE (3) DAYS OF EXCAVATION.

6. THE CONSTRUCTION OF UNDERGROUND UTILITY CONSTRUCTION: UNDERGROUND UTILITY LINES AND OTHER STRUCTURES SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING STANDARDS:

A. NO MORE THAN 500 LINEAR FEET OF TRENCH SHALL BE OPEN AT ANY ONE TIME;
B. WHEREVER CONSISTENT WITH SAFETY AND SPACE CONSIDERATION, EXCAVATED MATERIAL SHALL BE CAST TO THE UPHILL SIDE OF TRENCHES. TRENCH MATERIAL SHALL NOT BE CAST INTO OR ONTO THE SLOPE OF ANY STREAM, CHANNEL, ROAD, DITCH OR WATERWAY.

7. ALL EROSION AND SILTATION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND WILL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED.

No.	REVISIONS	DATE	BY

LINN ENGINEERING & DESIGN, INC.
P.O. BOX 140024
ORLANDO, FL 32814
PHONE: 407-775-5194
clinn@linnengineering.com

SCALE: AS NOTED
DESIGNED BY: CSL
DRAWN BY: YKD
CHECKED BY: CSL

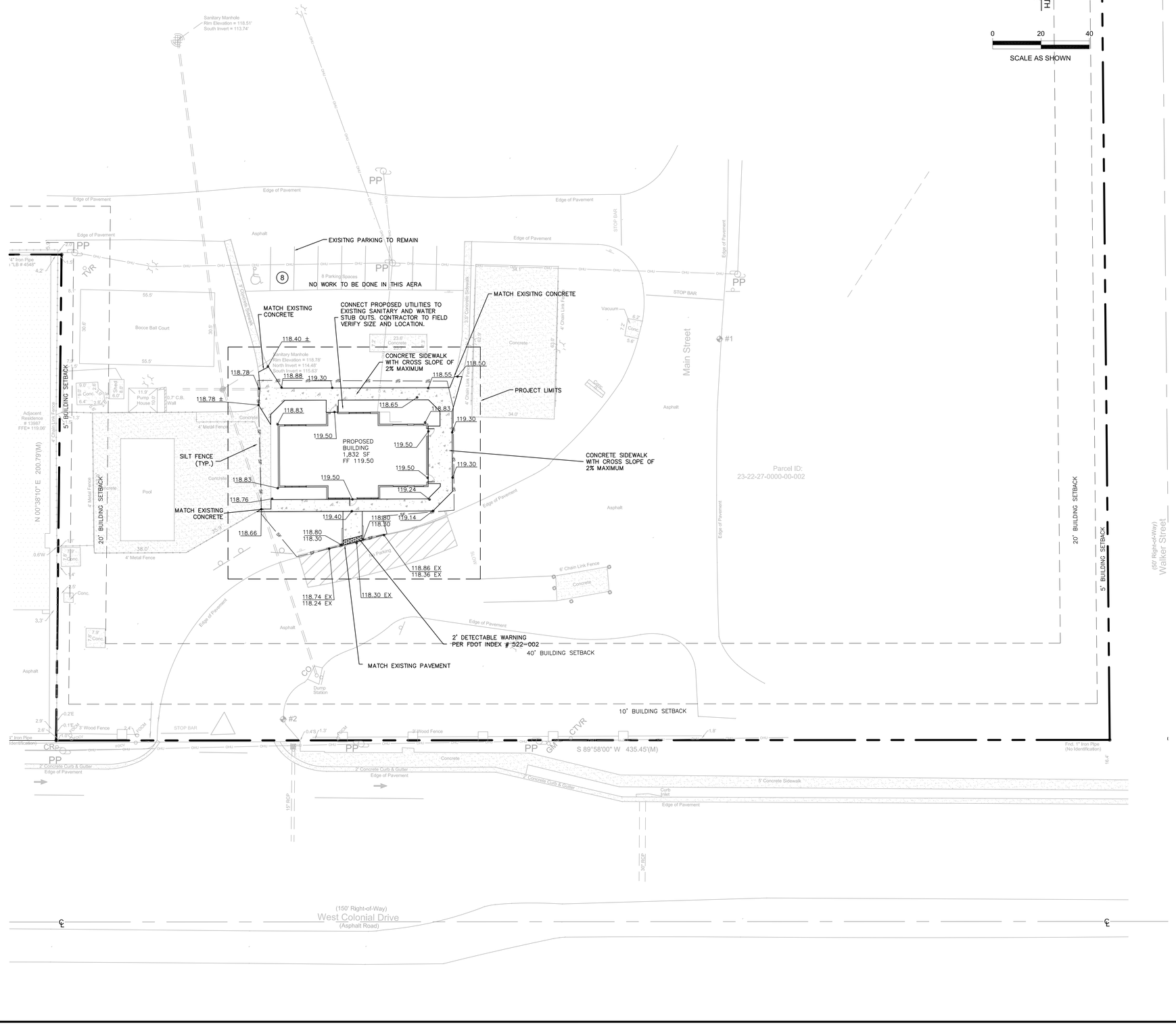
DESIGN ENGINEER: CHAD S. LINN, P.E.
FLORIDA REGISTRATION NUMBER: 57524
SEAL

EROSION CONTROL & STORMWATER POLLUTION PREVENTION PLAN

ENCORE WINTER GARDEN
13905 W. COLONIAL DR.
WINTER GARDEN, FL 34787
FLORIDA
CITY OF WINTER GARDEN

DATE 12/24
PROJECT NO. 99100-24-100
SHEET NUMBER SWPPP1

Drawing name: Z:\Projects\99100 - Albu\24-200 Encore Winter Garden\CAD-Civil\C11 Winter Garden swppp.dwg SWPPP-1 Mar 14, 2025 1:33pm by: Doug



LEGEND

- PROPOSED TYPE D CURB
- PROPOSED EASEMENT
- PROPERTY LINE

No.	REVISIONS	DATE	BY

LINN ENGINEERING & DESIGN, INC.
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ORLANDO, FL 32814
PHONE: 407-775-5194
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DESIGNED BY: CSL
DRAWN BY: YKD
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DESIGN ENGINEER: CHAD S. LINN, P.E.
FLORIDA REGISTRATION NUMBER: 57524
SEAL

EROSION CONTROL & STORMWATER POLLUTION PREVENTION PLAN

ENCORE WINTER GARDEN
13905 W. COLONIAL DR.
WINTER GARDEN, FL 34787
CITY OF WINTER GARDEN FLORIDA

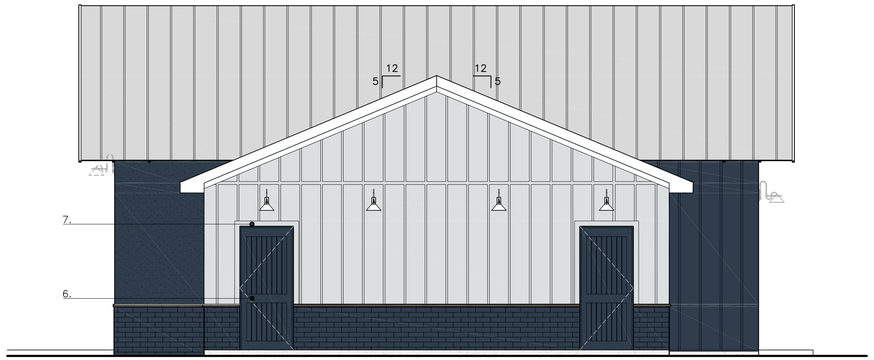
DATE: 12/24
PROJECT NO. 99100-24-100
SHEET NUMBER: SWPPP2

Drawing name: Z:\Projects\99100 - Albu\24-200 Encore Winter Garden\CAD-Civil\C11 Winter Garden swppp.dwg SWPPP-2 Mar 14, 2025 1:34pm by: Doug

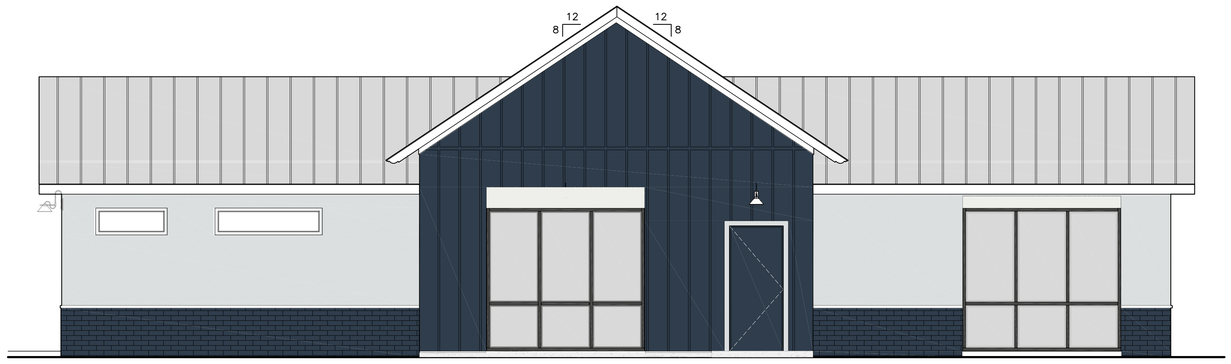
FRONT ELEVATION
SCALE = 1/4"=1'

TAG	PAINT CODE	PAINT NAME	WALL TEXTURE
1	SW6244	NAVAL	BOARD & BATTEN
2	SW6238	ICICLE	ROUGH STUCCO
3	SW7006	EXTRA WHITE	SMOOTH PLASTER
4	SW6244	NAVAL	BRICK VENEER
5	SW7006	EXTRA WHITE	SMOOTH PLASTER
6	SW6244	NAVAL	DOORS
7	SW6238	EXTRA WHITE	TRIMS

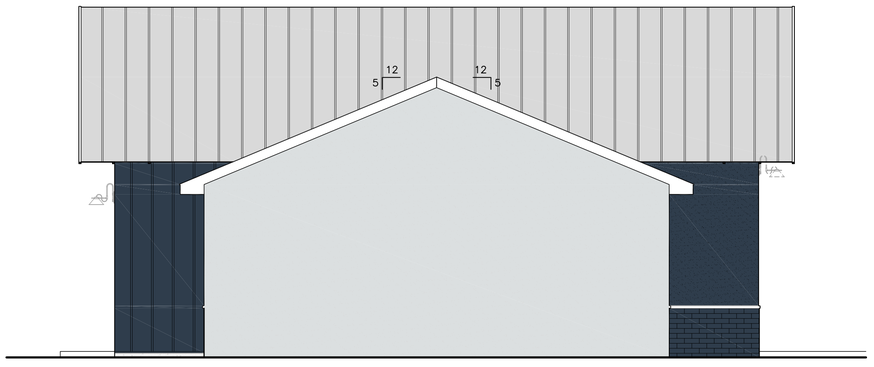
SW6244 SW6238 SW7006



RIGHT ELEVATION
SCALE = 1/4"=1'



REAR ELEVATION
SCALE = 1/4"=1'



LEFT ELEVATION
SCALE = 1/4"=1'

No.	REVISIONS	DATE	BY

LINN ENGINEERING & DESIGN, INC.
P.O. BOX 140024
ORLANDO, FL 32814
PHONE: 407-775-5194
clinn@linnengineering.com

DESIGN ENGINEER: CHAD S. LINN, P.E.
FLORIDA REGISTRATION NUMBER: 57524
SEAL

SCALE AS NOTED
DESIGNED BY CSL
DRAWN BY YKD
CHECKED BY CSL

ELEVATIONS COLOR - NAVY

ENCORE WINTER GARDEN
13905 W. COLONIAL DR.
WINTER GARDEN, FL 34787
CITY OF WINTER GARDEN FLORIDA

DATE 12/24
PROJECT NO. 99100-24-100
SHEET NUMBER --

Drawing name: Z:\Projects\99100 - Albu\24-200 Encore Winter Garden\CAD-Build\Base.dwg Color - Navy Oct 01, 2025 10:53am by: WSB

CITY OF WINTER GARDEN

DEVELOPMENT REVIEW COMMITTEE

300 West Plant Street - Winter Garden, Florida 34787-3011
(407) 656-4111

M E M O R A N D U M

TO: KELLY CARSON, PLANNING DIRECTOR
FROM: DEVELOPMENT REVIEW COMMITTEE
DATE: FEBRUARY 4, 2026
SUBJECT: REVIEW OF MINOR SITE PLAN – RV PARK OFFICE BUILDING
13905 W COLONIAL DRIVE

Pursuant to your request, we have reviewed the minor site plan dated 3/25/25 for compliance with the City's stormwater and site requirements. The plan proposes to demolish the existing 1,832 s.f. (footprint) 2-story office and construct a new 1,832 s.f. single-story office on the 26.87 acre C-2 zoned property. This is the first review of this project.

ENGINEERING COMMENTS

Engineering has no specific comments at this time. We recommend approval of the site plan, subject to approval by all other departments and the following conditions and comments:

1. Planning Department shall review and comment on proposed use, parking count, setbacks, open space, landscaping, buffering, lighting and signage, including the C-2 Zoning and SR 50 overlay requirements.

2. Building and electrical permits will be required.

3. All utilities shall conform to Chapter 78 of the City Code. Impact fees will be required for any new utility connections and shall be paid prior to issuance of building permit and City execution of FDEP permit applications. The site shall be served by City water, sewer and reuse. All utilities required for the development shall be run to the site at the Developer's expense, including potable water, reclaimed water and sanitary sewer. 100% of all required water, irrigation and sewer impact fees shall be paid prior to City execution of FDEP permits and issuance of site or building permits.

   If new or upsized meters are required for the project, additional utility connection fees will be required.

4. Existing drainage pattern shall not be altered.

5. General Requirements (as may be appropriate):
   a. All gravity sanitary pipe and fittings shall be SDR 26.
   b. All compaction shall be 98% of the modified proctor maximum density (AASHTO T-180).
   c. As-built record drawings shall comply with City of Winter Garden requirements available on-line (note on plan).
   d. All Storm (>12") and Sanitary lines (>6") shall be inspected by CCTV prior to completion.
   e. Use City Standard Detail sheets for utilities and public works in future submittals (see City website).
   f. If Thermoplastic pipe is used it shall meet all City material and installation requirements as specified in the City's Standards & Specifications including Class I bedding, HP polypropylene pipe (**not HDPE; N-12**), laser profiling, installation per ASTM D2321, etc. (see under on-line forms on website).
   g. All utilities shall be underground pursuant to Code (Sec. 18-33) including electrical

power, cable, telephone, etc.

PLANNING COMMENTS

6. Note: Although permitted separately, please be aware all signage shall adhere to City Code Chapter 102 – Signs.

STANDARD GENERAL CONDITIONS

7. The Owner is responsible for meeting all provisions of ADA and Florida Accessibility Code.

8. All work shall conform to City of Winter Garden standards and specifications.

9. Fencing, shall meet all City requirements for height, type, etc. Chain link fencing, if used, shall be vinyl coated per Code.

10. The City of Winter Garden will inspect private site improvements only to the extent that they connect to City owned/maintained systems (roadways, drainage, utilities, etc.). It is the responsibility of the Owner and Design Engineer to ensure that privately owned and maintained systems are constructed to the intended specifications. The City is not responsible for the operation and maintenance of privately owned systems, to include, but not be limited to, roadways, parking lots, drainage, stormwater ponds or on-site utilities.

11. The Contractor is responsible for the notification, location and protection of all utilities that may exist within the project limits.

12. No fill or runoff will be allowed to discharge onto adjacent properties; existing drainage patterns shall not be altered. The applicant should note that if approval is granted, the City of Winter Garden is not granting rights or easements for drainage from, or onto, property owned by others. Obtaining permission, easements or other approvals that may be required to drain onto private property is the Owner/Developer's responsibility. Should the flow of stormwater runoff from, or onto adjacent properties be unreasonable or cause problems, the City will not be responsible and any corrective measures required will be the responsibility of the Owner. Site construction shall adhere to the City of Winter Garden erosion and sediment control requirements as contained in Chapter 106 - Stormwater. If approval is granted by the City of Winter Garden, it does not waive any permits that may be required by federal, state, regional, county, municipal or other agencies that may have jurisdiction.

13. After final plan approval, a preconstruction meeting will be required prior to any commencement of construction. The applicant shall provide an erosion control and street lighting plan at the preconstruction meeting and shall pay all engineering review and inspection fees prior to construction. Inspection fees in the amount of **2.25%** of the cost of all site improvements shall be paid prior to issuance of the building permit.

Additional comments may be generated at subsequent reviews
Please review this information and contact our office if you have any questions. Thank you.

END OF MEMORANDUM

THE CITY OF WINTER GARDEN

CITY COMMISSION AGENDA ITEM

From: Kelly Carson, Planning Director

Via: City Manager Jon C. Williams

Date: February 4, 2026 **Meeting Date:** February 12, 2026

Subject: 14134 W Colonial Drive (Covenant Group)
Site Plan Approval
PARCEL ID# 27-22-27-9142-08-000

Issue: The applicant is requesting Site Plan Approval for the property located at 14134 W Colonial Drive.

Discussion: The applicant is requesting site plan approval to construct a 2-tenant 5,000 square foot commercial building in the West Market master development. The proposal includes additional landscaping and parking.

The 0.75 +/- acre subject property is designated COM (Commercial) on the City's Future Land Use Map and zoned PCD (Planned Commercial Development).

Recommended Action:

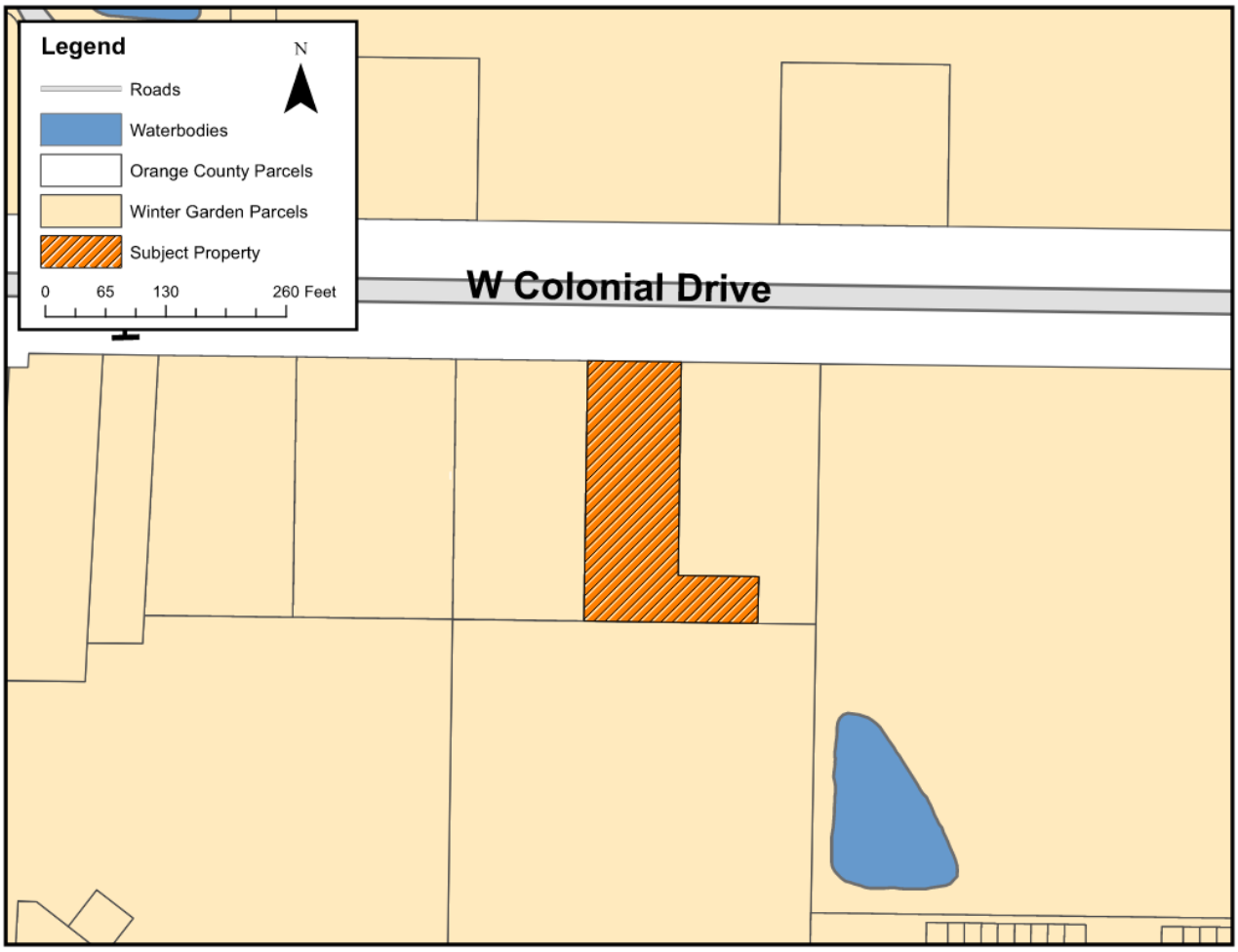
Staff recommends approval of the proposed Site Plan subject to the conditions of the DRC staff report dated January 23, 2026. Development of the property is consistent with the City's Comprehensive Plan and the property's PCD zoning requirements.

Attachment(s)/References:

Location Map
Site Plan
Landscape Plan
Building Elevations
DRC Combined Comments

Location Map

14134 W Colonial Drive



COVENANT WINTER GARDEN

COMMERCIAL

14134 W COLONIAL DR, WINTER GARDEN, FL 34787

SECTION 27, TOWNSHIP 22 S, RANGE 27 E

LAT 28° 33' 01" N LONG 81° 35' 39" W

SITE DATA

PROPERTY INFO:
PARCEL ID 27-22-27-9142-08-000

TOTAL PROJECT AREA = 32,761 SF 0.75 ACRES

ZONING:
WG-PCD (WINTER GARDEN - PLANNED COMMERCIAL DEVELOPMENT)

FLOOD ZONE:
X

FFE: 117.50

EXISTING USE:
1000 - COMM VACANT LAND (PROPOSED DENTAL OFFICE AND RESTAURANT)

BUILDING HEIGHT:
PROPOSED HEIGHT = 22 FT
MAXIMUM BUILDING HEIGHT = 50 FT, WITH A REDUCED LIMIT OF 35 FT WHEN WITHIN 100 FT OF RESIDENTIAL ZONING

ALLOWED BUILDING SETBACKS:

SOUTH	(PROPOSED 109 FT)
NORTH	(PROPOSED 96 FT)
WEST	(PROPOSED 11 FT)
EAST	(PROPOSED 19 FT)

PROPOSED LANDSCAPE BUFFERS:

SOUTH	10 FT	(PROPOSED 10 FT)
NORTH	25 FT	(PROPOSED 25 FT)
WEST	5 FT	(PROPOSED 5 FT)
EAST	5 FT	(PROPOSED 5 FT)

PARKING:
REQUIRED RESTAURANTS - 1 PARKING SPACE PER 4 SEATS
DENTAL OFFICE - 3 SPACES PER 1,000 SF OF GROSS SPACE
(3 X 1,000 / 32,761 SF = 11 PARKING SPACES)
PROPOSED: 28 SPACES INCLUDING 2 HANDICAP
2 BICYCLE PARKING SPACES

PROJECT AREA BREAKDOWN:

	AREA (S.F.)		% OF SITE (32,761 SF)
EXIST VEHICLE USE AREA	3,119	(0.72 AC)	10%
PROP VEHICLE USE AREA	10,638	(0.24 AC)	32%
SIDEWALK & DUMPSTER PAD	2,041	(0.05 AC)	6%
BUILDING	5,000	(0.11 AC)	15%
TOTAL IMPERVIOUS COVERAGE	20,878	(0.48 AC)	63%
OPEN GREEN SPACE	11,883	(0.27 AC)	37%

ISR RATIO = 0.63
MAX ISR THE IMPERVIOUS SURFACE FOR EACH LOT OR PARCEL IN A PID, PCD, OR A PUD IS RESTRICTED TO THE OVERALL MAXIMUM ISR THAT THE PID, PCD, OR PUD IS DESIGNED AND PERMITTED FOR BY ST. JOHNS RIVER WATER MANAGEMENT DISTRICT (SJRWMD), BUT IN NO CASE SHALL IT EXCEED 65 PERCENT FOR SINGLE-FAMILY DETACHED RESIDENTIAL USES OR 80 PERCENT FOR TOWNHOUSES, MULTI-FAMILY, COMMERCIAL OR INDUSTRIAL USES. THE ISR'S LISTED ABOVE ARE THE MAXIMUM ALLOWED AND SHALL BE SUPPORTED BY THE NECESSARY DRAINAGE CALCULATIONS.

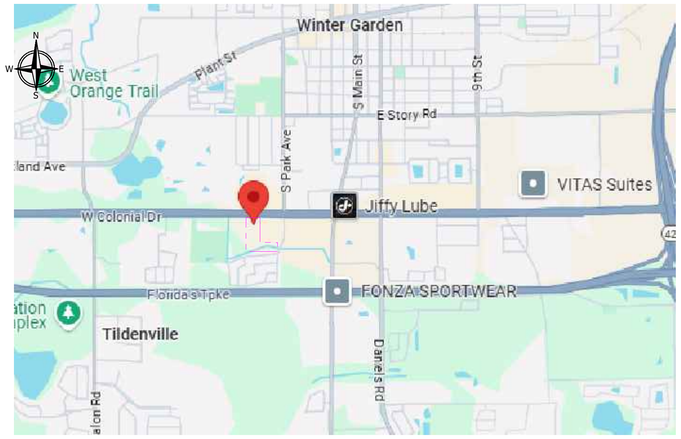
FIRE DEPARTMENT ACCESS ROAD:
WEST COLONIAL DRIVE

FIRE HYDRANT:
180 FT NORTH EAST OF THE SITE

LEGAL DESCRIPTION: TBD

AERIAL VIEW

SCALE: N.T.S.
PLAN REFERENCE



LOCATION MAP

SCALE: N.T.S.
PLAN REFERENCE

OWNER:
WINTER GARDEN EXCHANGE LLC
140 CARILLON PKWY, ST PETERSBURG, FL 33716-120

SHEET INDEX

C1 COVER SHEET
C2 GENERAL NOTES AND SPECIFICATIONS
C3 SITE PLAN
C4 UTILITY PLAN
C5 PAVING GRADING AND DRAINAGE PLAN
C6 SWPP PLAN
C7 SWPP DETAILS
C8 AUTOTURN

CITY STANDARD DETAILS SHEET 1
CITY STANDARD DETAILS FOR POTABLE WATER SYSTEMS SHEET 2
CITY STANDARD DETAILS FOR WASTE WATER SYSTEMS SHEET 3
CITY STANDARD DETAILS FOR POTABLE WATER SYSTEMS SHEET 8
CITY STANDARD DETAILS FOR PUBLIC SERVICES SHEET 9
CITY STANDARD DETAILS FOR PUBLIC SERVICES SHEET 10
CITY STANDARD DETAILS FOR MISCELLANEOUS DETAILS SHEET 11

SURVEY

PROFESSIONAL TEAMS

SURVEYOR
ASSOCIATED LAND SURVEYING & MAPPING, INC.
CONTACT: DAVID M. MCDERMOTT
1681 POWELL ST. LONGWOOD
FL 32750
OFFICE: (407) 869-5002

ARCHITECT
POWELLSTUDIO ARCHITECTURE
CONTACT: JULIE MARGETICH
713 W. MONTROSE STREET
CLERMONT, FLORIDA 34711
OFFICE: (352) 874-2340

GEOTECHNICAL ENGINEER
ECS FLORIDA, LLC
CONTACT: TYLOR A MCDADE
2815 DIRECTORS ROW, STE 500,
ORLANDO, FL 32809
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Trevor D. Howard, P.E. FL. #59364
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This document has been digitally signed and sealed by Trevor D. Howard, P.E. 59364 using a certified digital signature and date.
Printed copies of this document are not considered signed and sealed and the signature must be verified on electronic copies.

TREVOR D. HOWARD LICENSE No. 59364 STATE OF FLORIDA PROFESSIONAL ENGINEER

HOWARD CIVIL ENGINEERING, LLC
Land Development Civil Engineers
111 2nd Ave NE, #360, St. Petersburg, FL 33701
Phone: 813.962.6565

Know what's **below.** **Call** before you dig. FOR THE LOCATION OF UNDERGROUND FACILITIES

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES BEFORE COMMENCING WORK. IT AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

9/22/25 PER CITY
REVISIONS

COVER SHEET

COVENANT WINTER GARDEN
14134 W COLONIAL DR, WINTER GARDEN, FL 34787

SCALE 0

DRAWN BY: TREVOR HOWARD
CHECKED BY: TREVOR HOWARD
PROJ. MAN.: MEGAN STEENKAMP
JOB NO. 20250711WG
DATE: 2025/07/11
CAD FILE: 1
SHEET NO.
C1 - COVER SHEET

FILENAME: C:\Users\trevo\OneDrive\Cloud Drive\WINTER GARDEN FL\DRAWINGS\HCE WINTERS GARDEN.dwg PLOT DATE: 2025-10-02

GENERAL CONSTRUCTION NOTES

1. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN ACCORDING TO INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AFFECTING THIS WORK PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR SHALL CHECK PLANS AND FIELD CONDITIONS FOR CONFLICTS AND DISCREPANCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE OWNER'S ENGINEER OF ANY CONFLICT BEFORE PERFORMING ANY WORK IN THE AFFECTED AREA.
3. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND, THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS OF THE VARIOUS GOVERNMENTAL AGENCIES. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION, AND SCHEDULE INSPECTIONS ACCORDING TO AGENCY INSTRUCTION.
5. ALL SPECIFICATIONS AND DOCUMENTS REFERRED TO SHALL BE OF LATEST REVISIONS AND/OR LATEST EDITION.
6. ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK, INCLUDING LANDSCAPING.
7. CONTRACTOR SHALL SUBMIT FOR REVIEW TO THE OWNER'S ENGINEER SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS TO BE USED ON THIS SITE. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE. ENGINEER'S APPROVAL OF A SHOP DRAWING DOES NOT RELIEVE CONTRACTOR'S RESPONSIBILITY FOR PERFORMANCE OF THE ITEM.
8. WORK PERFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH OTHER WORK BEING PERFORMED ON SITE BY OTHER CONTRACTORS AND UTILITY COMPANIES. IT WILL BE NECESSARY FOR THE CONTRACTOR TO COORDINATE AND SCHEDULE HIS ACTIVITIES, WHERE NECESSARY WITH OTHER CONTRACTOR'S AND UTILITY COMPANIES.
9. BACKFILL MATERIAL SHALL BE SOLIDLY TAMPED AND COMPACTED TO A FIRMNESS EQUAL TO THAT OF THE SOIL ADJACENT TO THE TRENCH AROUND PIPES IN 6" LAYERS UP TO AN UNDISTURBED LEVEL OF AT LEAST 1' ABOVE THE TOP OF THE PIPE. IN AREAS TO BE PAVED, BACKFILL SHALL BE COMPACTED TO 100% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.
10. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF AT LEAST 3,000 P.S.I. IN 28 DAYS, UNLESS OTHERWISE NOTED, SPECIFIED OR REQUIRED.
11. REINFORCING SHALL BE BILLET STEEL BARS CONFORMING TO ASTM A615 GRADE 40 OR BETTER.
12. THE CONTRACTOR/SUBCONTRACTOR SHALL PLACE A 1" DEEP CONTRACTION JOINT EVERY 4' IN THE SIDEWALK.
13. SIDEWALK CONSTRUCTION SHALL BE FLUSH WITH PAVEMENT WHERE THEY ARE ADJACENT OR MEET, UNLESS OTHERWISE SHOWN.
14. MATERIALS AND CONSTRUCTION METHODS FOR STREETS AND STORM DRAINAGE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LOCAL REGULATORY AGENCY AND THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 1994, OR LATEST REVISION THEREOF AND SUPPLEMENTAL SPECIFICATIONS THERETO.
15. ALL PIPE NOTED ON THE PLANS AS RCP SHALL BE REINFORCED CONCRETE PIPE, CLASS III, WITH RUBBER GASKET JOINTS.
16. REPAIR AND REPLACEMENT OF ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITIONS BEFORE COMMENCING CONSTRUCTION WORK UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. ADDITIONAL COSTS ARE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED.
17. CLASS "B" TYPE I BEDDING SHALL BE USED UNLESS INDICATED OTHERWISE ON THE DRAWINGS, OR BY THE ENGINEER.
18. SOILS ENGINEER TO SUPPLY THE DESIGN ENGINEER WITH A PHOTOCOPY OF ALL COMPACTION TESTS, ASPHALT RESULTS, AND CONCRETE RESULTS. THE GEOTECH ENGINEER IS TO CERTIFY TO THE DESIGN ENGINEER IN WRITING THAT ALL TESTING REQUIREMENTS REQUIRED BY THE LOCAL REGULATORY AGENCY AND THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) FOR THE IMPROVEMENTS AS REQUIRED BY THE ENGINEERING CONSTRUCTION DRAWINGS FOR THE ON-SITE HAVE BEEN SATISFIED.
19. CONTRACTOR SHALL REVIEW SOIL REPORTS AND BORINGS PRIOR TO BIDDING THE PROJECT AND COMMENCING CONSTRUCTION.
20. IRRIGATION SYSTEM SHALL HAVE COLOR CODED PIPING AND LABELING ON THE PIPE TO ENSURE DIFFERENTIATION FROM POTABLE WATER PIPING.
21. AT LEAST 3 WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND APPROPRIATE AGENCIES AND SUPPLY THEM WITH ALL REQUIRED SHOP DRAWINGS, THE CONTRACTOR'S NAME, STARTING DATE, PROJECTED SCHEDULE, AND OTHER INFORMATION AS REQUIRED. ANY WORK PERFORMED PRIOR TO NOTIFYING THE ENGINEER OR WITHOUT AGENCY INSPECTOR PRESENT MAY BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
22. OWNER SPECIFIC SPECIFICATIONS TO BE PROVIDED TO CONTRACTOR DURING BIDDING.

DRAINAGE SYSTEM NOTES

1. STANDARD INDEXES REFER TO THE LATEST EDITION OF FDOT "ROADWAY AND TRAFFIC DESIGN STANDARDS".
2. ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE CLASS III (ASTM C-76) UNLESS OTHERWISE NOTED ON PLANS. ALL DRAINAGE STRUCTURES SHALL BE IN ACCORDANCE WITH FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS UNLESS OTHERWISE NOTED ON PLANS.
3. PIPE LENGTHS SHOWN ARE APPROXIMATE AND TO THE CENTER OF DRAINAGE STRUCTURES WITH THE EXCEPTION OF MITERED END AND FLARED END SECTIONS WHICH ARE INCLUDED IN LENGTHS.
4. ALL DRAINAGE STRUCTURE GRATES AND COVERS WITHIN TRAFFIC AREAS SHALL BE TRAFFIC RATED FOR H-20 LOADINGS.
5. CONTRACTOR TO SOD THE DETENTION POND AS INDICATED ON PLANS WITHIN ONE WEEK FOLLOWING CONSTRUCTION OF THE POND.
6. THE STORM DRAINAGE PIPING AND FILTRATION SYSTEM SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNER'S ENGINEER PRIOR TO THE PLACEMENT OF BACKFILL. THE CONTRACTOR SHALL COORDINATE A FINAL INSPECTION OF THE COMPLETED STORMWATER MANAGEMENT SYSTEM PRIOR TO FINAL ACCEPTANCE BY THE OWNER. CONTRACTOR TO NOTIFY THE ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE

RECORD DRAWINGS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING INFORMATION ON A SET OF THE APPROVED PLANS CONCURRENTLY WITH CONSTRUCTION PROGRESS. WITHIN TWO WEEKS FOLLOWING FINAL INSPECTION THE CONTRACTOR SHALL SUBMIT ONE SET OF RECORD DRAWINGS TO THE ENGINEER OF RECORD. THE FINAL RECORD DRAWINGS SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:

1. DRAWINGS TO BE LEGIBLY MARKED TO RECORD ACTUAL CONSTRUCTION.
2. DRAWINGS SHALL SHOW ACTUAL LOCATION OF ALL UTILITIES, AND RELATED APPURTENANCES, BOTH ABOVE AND BELOW GROUND. ALL CHANGES TO PIPING LOCATION INCLUDING HORIZONTAL & VERTICAL LOCATIONS OF UTILITIES & APPURTENANCES SHALL BE CLEARLY SHOWN AND REFERENCED TO PERMANENT SURFACE IMPROVEMENTS. DRAWINGS SHALL ALSO SHOW ACTUAL INSTALLED PIPE MATERIAL, ETC.
3. DRAWINGS SHALL CLEARLY SHOW ALL FIELD CHANGES OF DIMENSION AND DETAIL INCLUDING CHANGES MADE BY FIELD ORDER OR BY CHANGE ORDER.
4. DRAWINGS SHALL CLEARLY SHOW ALL DETAILS NOT ON ORIGINAL CONTRACT DRAWINGS BUT CONSTRUCTED IN THE FIELD. ALL EQUIPMENT AND PIPING RELOCATION SHALL BE CLEARLY SHOWN.
5. LOCATIONS OF ALL MANHOLES, HYDRANTS, VALVES, & VALVE BOXES SHALL BE SHOWN.
6. THE CONTRACTOR SHALL PROVIDE CERTIFIED AS-BUILT DRAWINGS, SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR. THE AS-BUILT DRAWINGS SHALL SHOW FINAL GRADES AND LOCATIONS OF ALL UTILITIES INCLUDING SANITARY SEWER CLEAN OUT INVERTS, WATER LINE LOCATIONS, STORM SEWER STRUCTURE LOCATIONS, GRATE ELEVATIONS, INVERTS, AND POND DETAILS (INCLUDING TOP OF BANK AND BOTTOM DIMENSIONS AND ELEVATIONS), OUTFALL STRUCTURE DETAILS (INCLUDING GRATE, WEIR, ORIFICE AND SKIMMER DIMENSIONS AND ELEVATIONS). THE CONTRACTOR SHALL PROVIDE TEN COPIES OF THE CERTIFIED AS-BUILT DRAWINGS TO THE ENGINEER.

STANDARD UTILITY NOTES

1. CHAPTER 77-153 OF THE FLORIDA STATUTES REQUIRES THAT AN EXCAVATOR NOTIFY ALL GAS UTILITIES A MINIMUM OF TWO WORKING DAYS PRIOR TO EXCAVATING. MAPS SHOW ONLY THE APPROXIMATE LOCATION OF GAS MAINS AND DO NOT SHOW SERVICE LINES. THE ONLY SAFE AND PROPER WAY TO LOCATE EITHER MAINS OR SERVICE LINES IS BY AN ON-SITE INSPECTION BY THE RESPECTIVE GAS PERSONNEL. THEREFORE, EXCAVATORS ARE INSTRUCTED TO TELEPHONE THE RESPECTIVE GAS COMPANY TWO WORKING DAYS BEFORE ENTERING A CONSTRUCTION AREA.
2. ALL UNDERGROUND UTILITIES MUST BE IN PLACE, TESTED AND INSPECTED AS REQUIRED PRIOR TO BASE AND SURFACE CONSTRUCTION.
3. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE VARIOUS UTILITY COMPANIES IN ORDER TO PERMIT MARKING THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES IN ADVANCE OF CONSTRUCTION, BY CALLING FLORIDA SUNSHINE STATE ONE CALL CENTER OF FLORIDA, INC. AT 1-800-432-4770. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY "SUNSHINE" FORTY-EIGHT (48) HOURS PRIOR TO ANY CLEARING OF CONSTRUCTION TO IDENTIFY ALL UTILITY LOCATIONS.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES TO DISCONNECT OR REMOVE THEIR FACILITIES PRIOR TO REMOVING OR DEMOLISHING ANY EXISTING STRUCTURES FROM THE SITE. ALL UTILITIES INCLUDING, BUT NOT NECESSARILY LIMITED TO, THE FOLLOWING SHOULD BE CONTACTED BY THE CONTRACTOR:
    1. GAS
    2. TELEPHONE
    3. WATER
    4. POWER
    5. CITY SEWER
    6. CITY/COUNTY/STATE TRAFFIC SIGNAL UTILITY (FIBER, HARDWIRE TRAFFIC SIGNAL INTERCONNECT)
5. THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR IT'S ACCURACY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITY OWNERS AND TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATIONS OR REMOVALS WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING ANY UNDERGROUND UTILITY, WHETHER SHOWN ON THE PLANS OR LOCATED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL CHECK PLANS AND FIELD CONDITIONS FOR CONFLICTS AND DISCREPANCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE OWNER'S ENGINEER OF ANY CONFLICT BEFORE PERFORMING ANY WORK IN THE AFFECTED AREA.

SAFETY NOTES

1. DURING THE CONSTRUCTION AND/OR MAINTENANCE OF THIS PROJECT, THE CONTRACTOR SHALL COMPLY WITH REGULATIONS. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE SAFETY OF ITS PERSONNEL. LABOR SAFETY REGULATIONS SHALL BE AS SET FORTH BY OSHA IN THE FEDERAL REGISTER OF THE DEPARTMENT OF LABOR.
2. THE MINIMUM STANDARDS AS SET FORTH IN THE CURRENT EDITION OF THE STATE OF FLORIDA, MANUAL ON TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS SHALL BE FOLLOWED IN THE DESIGN APPLICATION, INSTALLATION, MAINTENANCE, AND REMOVAL OF ALL TRAFFIC CONTROL DEVICES, WARNING DEVICES, AND BARRIERS NECESSARY TO PROTECT THE PUBLIC AND WORKERS FROM HAZARDS WITHIN THE PROJECT LIMITS.
3. ALL TRAFFIC CONTROL MARKINGS, FLAGGERS, AND DEVICES SHALL CONFORM TO THE PROVISIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES PREPARED BY THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION.
4. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS. THE ABOVE INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY AND DOES NOT IMPLY THAT THE OWNER OR ENGINEER WILL INSPECT AND/OR ENFORCE SAFETY REGULATIONS.

PAVING AND GRADING NOTES

1. ALL DELETERIOUS MATERIAL (I.E., MUCK, PEAT, BURIED DEBRIS) IS TO BE EXCAVATED IN ACCORDANCE WITH THESE PLANS OR AS DIRECTED BY THE OWNER'S ENGINEER OR OWNER'S SOIL TESTING COMPANY. DELETERIOUS MATERIAL IS TO BE STOCKPILED OR REMOVED FROM THE SITE AS DIRECTED BY THE OWNER. EXCAVATED AREAS ARE TO BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE PLANS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND SHALL PROVIDE BRACING, SHEETING OR SHORING AS NECESSARY. TRENCHES SHALL BE KEPT DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACED. DEWATERING SHALL BE USED AS REQUIRED, AND PERMITTED THROUGH LOCAL GOVERNMENTAL AGENCIES AND WATER MANAGEMENT DISTRICT PER CURRENT REGULATIONS.
3. PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON DRAWINGS.
4. REFER TO THE LATEST EDITION OF FDOT 'ROADWAY AND TRAFFIC DESIGN STANDARDS" FOR DETAILS AND SPECIFICATIONS OF ALL FDOT TYPE CURBING AND GUTTERS CALLED FOR ON THESE PLANS.
5. IT MAY BE NECESSARY TO FIELD ADJUST PAVEMENT ELEVATIONS TO PRESERVE THE ROOT SYSTEMS OF TREES SHOWN TO BE SAVED. CONTRACTOR TO COORDINATE WITH OWNER'S ENGINEER PRIOR TO ANY ELEVATION CHANGES.
6. PRIOR TO CONSTRUCTION OF CONCRETE PAVEMENT, THE CONTRACTOR IS TO SUBMIT A PROPOSED JOINTING PATTERN TO THE OWNER'S ENGINEER FOR REVIEW.
7. CONTRACTOR TO PROVIDE A 1/2" BITUMINOUS EXPANSION JOINT MATERIAL WITH SEALER AT ABUTMENT OF CONCRETE AND ANY STRUCTURE.
8. ALL PAVEMENT MARKINGS SHALL BE MADE WITH PERMANENT THERMOPLASTIC AND SHALL CONFORM TO FDOT STANDARD INDEX NO. 17346, SHEETS 1-7. PARKING STALL STRIPING TO BE 4" WIDE PAINTED STRIPES. ON-SITE STRIPE COLOR SHALL BE WHITE EXCEPT AS SHOWN ON THE ENGINEERING PLANS. PARKING STALL STRIPING SHALL BE COMPATIBLE WITH THE PAVEMENT TYPE (IE CONCRETE, ASPHALT) AND SPECIFICATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.
9. CONTRACTOR SHALL TRIM, TACK, AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.
10. CONTRACTOR SHALL INSTALL STORM PIPING AND CULVERTS IN ACCORDANCE WITH FDOT INDEX 205 AND PLACE EXTRA BASE MATERIAL WHEN THE DISTANCE BETWEEN THE PAVEMENT ELEVATION AND THE TOP OF THE PIPE OR BELL IS LESS THAN TWELVE (12) INCHES.
11. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING APPLICABLE TESTING WITH THE SOILS ENGINEER. TESTS WILL BE REQUIRED PURSUANT TO THE TESTING SCHEDULE REQUIRED BY APPLICABLE REGULATORY AGENCIES AND AS MAY BE FOUND IN THE ENGINEERING CONSTRUCTION DRAWINGS. CONTRACTOR TO VERIFY ALL TESTING WITH THE OWNER PRIOR TO COMMENCING CONSTRUCTION. UPON COMPLETION OF THE WORK, THE SOILS ENGINEER MUST SUBMIT TO THE OWNER'S ENGINEER CERTIFICATIONS STATING THAT ALL REQUIREMENTS HAVE BEEN MET.

GEOTECHNICAL NOTE:

CONTRACTOR TO REVIEW AND FOLLOW CONSTRUCTION TECHNIQUES OUTLINED IN THE SITE GEOTECHNICAL REPORT.

WATER SYSTEM NOTES

1. A VERTICAL CLEARANCE OF 18 INCHES SHALL BE MAINTAINED BETWEEN SANITARY SEWERS AND WATER MAINS. IF CLEARANCE CANNOT BE ACHIEVED BY ADJUSTING WATER MAINS THE SANITARY SEWER SHALL BE CONSTRUCTED PER SANITARY NOTE No. 1 BELOW.
2. A HORIZONTAL SEPARATION OF 10 FEET SHALL BE MAINTAINED BETWEEN WATER MAINS AND SANITARY SEWER.
3. ALL WATER MAINS SHALL HAVE A MINIMUM OF 36 INCHES OF COVER.
4. ALL WATER SYSTEM WORK SHALL CONFORM WITH LOCAL REGULATORY STANDARDS AND SPECIFICATIONS.
5. CONFLICTS BETWEEN WATER AND STORM OR SANITARY SEWER TO BE RESOLVED BY ADJUSTING THE WATER LINES AS NECESSARY.
6. ALL DUCTILE IRON PIPE SHALL BE CLASS 52 IN ACCORDANCE WITH ANSI A 21.50 (AWWA C150) AND ANSI A 21.51 (AWWA C151) AND PIPE SHALL RECEIVE EXTERIOR BITUMINOUS COATING IN ACCORDANCE WITH ANSI A 21.6, A 21.8 OR A 21.51 AND SHALL BE MORTAR LINED, STANDARD THICKNESS, AND BITUMINOUS SEALED IN ACCORDANCE WITH ANSI A (AWWA C 104-71).
7. ALL FITTINGS LARGER THAN 2" SHALL BE DUCTILE IRON CLASS 53 IN ACCORDANCE WITH AWWA C-110 WITH A PRESSURE RATING OF 350 PSI. JOINTS SHALL BE MECHANICAL JOINTS IN ACCORDANCE WITH AWWA C-111. FITTINGS SHALL BE CEMENT MORTAR LINED AND COATED IN ACCORDANCE WITH AWWA C-104.
8. CONTRACTOR TO INSTALL TEMPORARY BLOW-OFFS AT THE END OF WATER SERVICE LATERALS TO ASSURE ADEQUATE FLUSHING AND DISINFECTION.
9. THRUST BLOCKING AND/OR RESTRAINED JOINTS SHALL BE PROVIDED AT ALL FITTINGS AND HYDRANTS IN ACCORDANCE WITH AWWA STANDARDS.
10. ALL PVC WATER MAINS 4" THROUGH 12" SHALL BE IN ACCORDANCE WITH AWWA C-900. PIPE SHALL BE CLASS 150 AND MEET THE REQUIREMENTS OF SDR 18 IN ACCORDANCE WITH ASTM D-2241.
11. ALL FITTINGS 2" AND SMALLER SHALL BE SCHEDULE 40 PVC WITH SOLVENT WELDED SLEEVE TYPE JOINTS.
12. ALL WATER MAINS AND WATER SERVICES TO BE INSTALLED UNDER ROAD UNDERDRAIN SHALL MAINTAIN 18" SEPARATION.
13. MATERIALS AND CONSTRUCTION METHODS FOR WATER DISTRIBUTION SYSTEM SHALL BE IN ACCORDANCE WITH THE LOCAL REGULATORY AGENCY CODES, PLANS, AND SPECIFICATIONS FOR CONSTRUCTION, LATEST REVISION THEREOF AND SUPPLEMENTAL SPECIFICATIONS THERETO. APPROVAL AND CONSTRUCTION OF ALL POTABLE WATER SERVICE MAIN EXTENSIONS AND CONNECTIONS MUST BE COORDINATED THROUGH THE LOCAL REGULATORY AGENCY DEPARTMENT OF PUBLIC UTILITIES.
14. ALL COMPONENTS OF THE WATER SYSTEM, INCLUDING FITTINGS, HYDRANTS, CONNECTIONS, AND VALVES SHALL REMAIN UNCOVERED UNTIL PROPERLY PRESSURE TESTED AND ACCEPTED BY THE OWNER'S ENGINEER. PRESSURE TESTS TO BE IN ACCORDANCE WITH WATER DEPARTMENT AND AWWA SPECIFICATIONS. CONTRACTOR TO NOTIFY OWNER'S ENGINEER AND WATER DEPARTMENT INSPECTORS 48 HOURS IN ADVANCE OF PERFORMING TESTS.
15. CONTRACTOR TO PERFORM CHLORINATION AND BACTERIOLOGICAL SAMPLING REQUIRED TO OBTAIN CLEARANCE OF DOMESTIC WATER SYSTEM THROUGH LOCAL REGULATORY AGENCIES. COPIES OF ALL BACTERIOLOGICAL TESTS TO BE SUBMITTED TO OWNER'S ENGINEER.

SANITARY SEWER NOTES

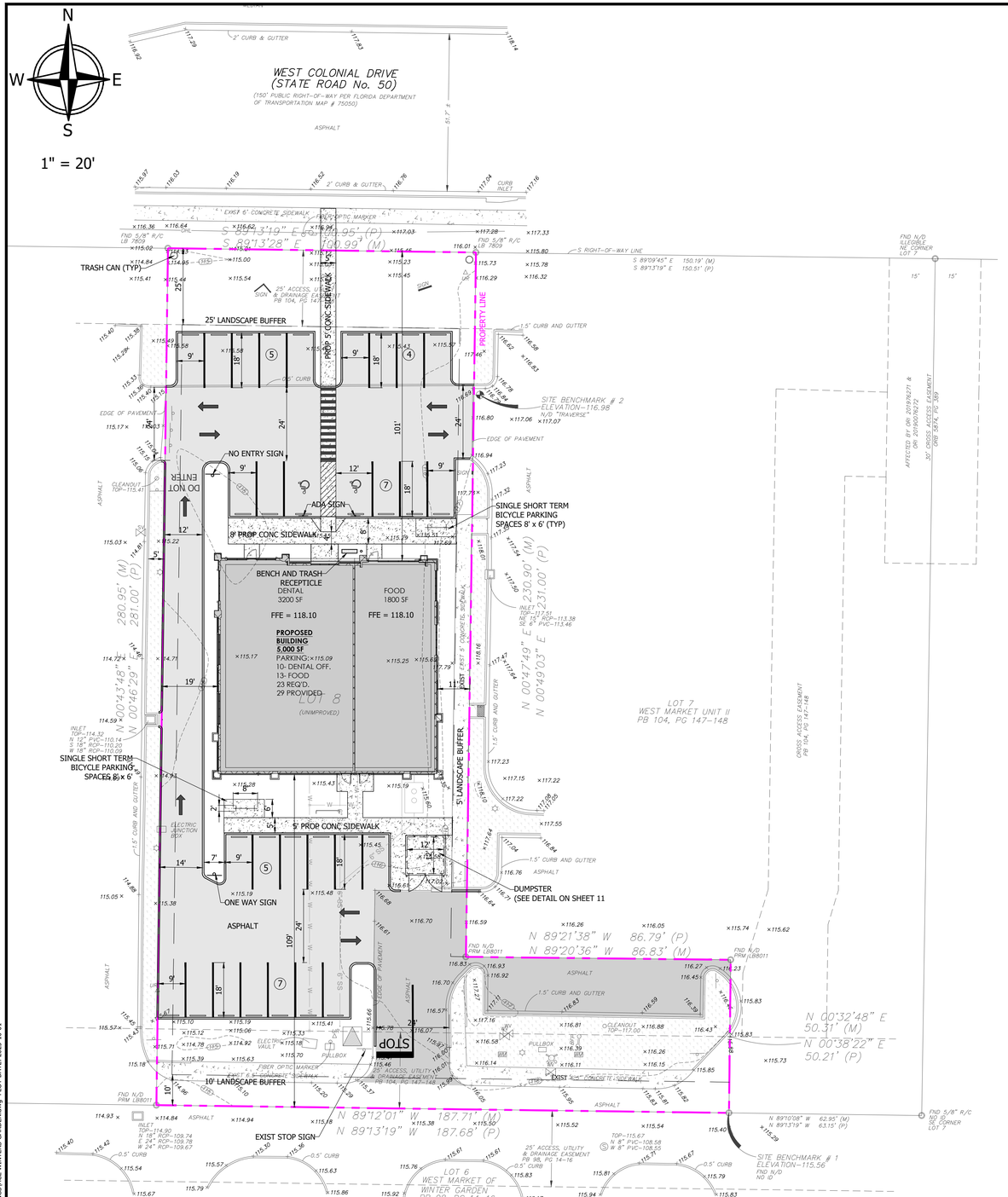
1. PER FAC 62-604.400 (2)(G) "SEWERS CROSSING UNDER WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE INVERT OF THE UPPER PIPE & THE CROWN OF THE LOWER PIPE. WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED, THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS & WATER MAIN JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN 10 FEET BETWEEN ANY TWO JOINTS. ALTERNATIVELY , THE SEWER MAIN MAY BE ENCASED IN A SLEEVE OR ENCASED IN CONCRETE TO OBTAIN THE EQUIVALENT OF THE REQUIRED 10 FEET SEPARATION."
2. A HORIZONTAL SEPARATION OF 10 FEET SHALL BE MAINTAINED BETWEEN WATER MAINS AND SANITARY SEWER. 1
3. ALL SANITARY SEWER MAINS & SERVICE LATERALS SHALL BE CONSTRUCTED OF POLYVINYL CHLORIDE PIPE, SDR 26.
4. ALL SANITARY SEWER WORK SHALL CONFORM WITH LOCAL REGULATORY STANDARDS AND SPECIFICATIONS.
5. PRIOR TO COMMENCING WORK WHICH REQUIRES CONNECTING NEW WORK TO EXISTING LINES OR APPURTENANCES, THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING CONNECTION POINT AND NOTIFY OWNER'S ENGINEER OF ANY CONFLICTS OR DISCREPANCIES.
6. PVC PIPE AND FITTINGS SHALL CONFORM WITH A.S.T.M. SPECIFICATIONS DESIGNATION D-3034-77C, MA SDR 26. INSTALLATION OF SDR PIPE SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF A.S.T.M. SPECIFICATION DESIGNATION D2321. ALL SANITARY SEWER PIPELINES SHALL BE SOLID GREEN IN COLOR. 1
7. ALL PVC FORCE MAINS WITHIN PUBLIC R/W SHALL BE CLASS 200, SDR 21, WITH MECHANICAL JOINTS, AND HAVE A GREEN MAGNETIC TAPE A MINIMUM OF 3" WIDE, PLACED 24" BELOW THE PROPOSED GRADE.THE PRINT ON THE MAGNETIC TAPE SHOULD READ "FORCE MAIN".
8. ALL DUCTILE IRON PIPE SHALL BE CLASS 52 IN ACCORDANCE WITH ANSI A 21.50 (AWWA C150) AND ANSI 21.51 (AWWA C 151). H.C. PIPE SHALL RECEIVE INTERIOR AND EXTERIOR BITUMINOUS COATING IN ACCORDANCE WITH ANSI A 21.6, A 21.8, OR A 21.51.
9. ALL SANITARY SEWER GRAVITY MAINS OR SANITARY SEWER FORCE MAINS THAT REQUIRE D.I.P. ARE TO BE POLYLINED OR EPOXY LINED.
10. ALL SANITARY SEWER COVERS SHALL BE TRAFFIC RATED FOR H-20 LOADING.
11. SANITARY SEWERS SHALL HAVE A MINIMUM COVER OF THREE (3) FEET AND SHALL BE INSTALLED ACCOMPANIED BY A METAL TAPE SIMILAR TO "TERRATAPE" COLORED GREEN AND LAID ONE FOOT ABOVE THE PIPE.
12. ALL GRAVITY SEWER PIPING SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNER'S ENGINEER. CONTRACTOR TO NOTIFY THE ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE INSPECTION.
13. THE CONTRACTOR SHALL PERFORM AN INFILTRATION/EXFILTRATION TEST ON ALL GRAVITY SEWERS IN ACCORDANCE WITH THE REGULATORY AGENCY HAVING JURISDICTION. SAID TESTS ARE TO BE CERTIFIED BY THE ENGINEER AND SUBMITTED TO THE REGULATORY AGENCY FOR APPROVAL. COORDINATION AND NOTIFICATION OF ALL PARTIES IS THE CONTRACTOR'S RESPONSIBILITY.
14. ALL FORCE MAINS SHALL BE SUBJECT TO A HYDROSTATIC PRESSURE TEST IN ACCORDANCE WITH THE REGULATORY AGENCY HAVING JURISDICTION. SAID TESTS ARE TO BE CERTIFIED BY THE ENGINEER AND SUBMITTED TO THE REGULATORY AGENCY FOR APPROVAL COORDINATION AND NOTIFICATION OF ALL PARTIES IS CONTRACTOR'S RESPONSIBILITY.

CLEARING AND EROSION CONTROL NOTES

1. PRIOR TO ANY SITE CLEARING, ALL TREES SHOWN TO REMAIN ON THE CONSTRUCTION PLANS SHALL BE PROTECTED IN ACCORDANCE WITH THE LOCAL REGULATORY AGENCY'S TREE ORDINANCE AND DETAILS CONTAINED IN THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THESE TREES IN GOOD CONDITION. NO TREES SHOWN TO REMAIN SHALL BE REMOVED WITHOUT WRITTEN APPROVAL FROM THE OWNER. ONLY "GRADING BY HAND" IS PERMITTED WITHIN THE CANOPY LINE OF TREES THAT ARE TO REMAIN.
2. THE CONTRACTOR IS TO PREPARE THE SITE PRIOR TO BEGINNING ACTUAL CONSTRUCTION IN ACCORDANCE WITH THE SOILS TESTING REPORT. COPIES OF THE SOILS REPORT ARE AVAILABLE THROUGH THE OWNER OR THE SOILS TESTING COMPANY. QUESTIONS REGARDING SITE PREPARATION REQUIREMENTS DESCRIBED IN THE SOILS REPORT ARE TO BE DIRECTED TO THE SOILS TESTING COMPANY.
3. CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE SITE NECESSARY FOR CONSTRUCTION. DISTURBED AREAS WILL BE SEEDED, MULCHED, OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIAL IMMEDIATELY FOLLOWING CONSTRUCTION.
4. THE TOP 4" TO 6" OF GROUND REMOVED DURING CLEARING AND GRUBBING SHALL BE STOCKPILED AT A SITE DESIGNATED BY THE OWNER TO BE USED FOR LANDSCAPING PURPOSES, UNLESS OTHERWISE DIRECTED BY THE OWNER. HAY BALES SHALL BE PLACED ALONG THE STOCKPILE PERIMETER FOR EROSION CONTROL..
5. ALL CONSTRUCTION DEBRIS AND OTHER WASTE MATERIAL SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH APPLICABLE REGULATIONS.
6. CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS FOR REMOVING ANY EXISTING STRUCTURES.
7. CONTRACTOR TO OBTAIN SITE CLEARING & TREE REMOVAL PERMIT PRIOR TO INSTALLATION OF ANY UNDERGROUND UTILITIES AND CLEARING THE SITE.
8. PROTECTION OF EXISTING STORM SEWER SYSTEMS: DURING CONSTRUCTION, ALL STORM SEWER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS SUCH AS SECURED HAY BALES, SOD, STONE, ETC., WHICH SHALL BE MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS.
9. ALL DISTURBED AREAS WHICH ARE NOT TO BE SODDED ARE TO BE SEEDED AND MULCHED TO FDOT STANDARDS AND MAINTAINED UNTIL A SATISFACTORY STAND OF GRASS ACCEPTABLE TO THE REGULATORY AGENCY AND ENGINEER HAVE BEEN OBTAINED. ANY WASHOUTS, REGRADING, RESEEDING, AND GRASSING WORK, AND OTHER EROSION WORK REQUIRED, WILL BE PERFORMED BY THE CONTRACTOR UNTIL THE SYSTEM IS ACCEPTED FOR MAINTENANCE BY THE REGULATORY AGENCY AND ENGINEER.
10. CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEDIMENTATION BARRIER (STRAW BALE OR STAKED SILT FENCE) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS, WATERWAYS, AND EXISTING WETLANDS. IN ADDITION, CONTRACTOR SHALL PLACE STRAW, MULCH, OR OTHER SUITABLE MATERIAL ON GROUND IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT THE SITE. IF, IN THE OPINION OF THE ENGINEER AND/OR LOCAL AUTHORITIES, EXCESSIVE QUANTITIES OF EARTH ARE TRANSPORTED OFF-SITE EITHER BY NATURAL DRAINAGE OR BY VEHICULAR TRAFFIC, THE CONTRACTOR IS TO RECOVER SAID EARTH TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES.
11. IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AFFECTED AREA USING SPRINKLING, IRRIGATION, OR OTHER ACCEPTABLE METHODS.
12. THERE SHALL BE NO DISCHARGE (I.E. PUMPING, SHEET FLOW, SWALE, DITCH, ETC.) INTO EXISTING LAKE SYSTEM, WETLAND, OR RIVER, WITHOUT THE USE OF SETTLING PONDS. IF THE CONTRACTOR DESIRES TO DISCHARGE INTO THE EXISTING LAKE SYSTEM OR RIVER, A SETTLING POND PLAN MUST BE SUBMITTED AND APPROVED BY THE ENGINEER AND LOCAL REGULATORY AGENCY PRIOR TO CONSTRUCTION.

STANDARD GENERAL CONDITIONS

1. THE OWNER IS RESPONSIBLE FOR MEETING ALL PROVISIONS OF ADA AND FLORIDA ACCESSIBILITY CODE.
2. ALL WORK SHALL CONFORM TO CITY OF WINTER GARDEN STANDARDS AND SPECIFICATIONS.
3. FENCING, SHALL MEET ALL CITY REQUIREMENTS FOR HEIGHT, TYPE, ETC. CHAIN LINK FENCING, IF USED, SHALL BE VINYL COATED PER CODE.
4. THE CITY OF WINTER GARDEN



LEGEND

- PROPERTY LINE
- BUILDING SETBACK LINE
- LANDSCAPE BUFFERS
- TYPE D CURB
- HANDICAP
- (7) PARKING COUNT
- NEW CONCRETE SIDEWALK
- NEW ASPHALT PARKING
- EXIST ASPHALT
- EXIST GRASS
- ×47.14 EXISTING ELEVATION
- 48.33 PROPOSED ELEVATION
- SURFACE RUNOFF DIRECTION
- STAKED SILT FENCE

DRIVEWAY NOTE:
SHALL BE 6" THICK CONCRETE THRU DRIVEWAY AND SIDEWALK REINFORCED WITH WELDED WIRE MESH OR 1.5 LB POLYPROPYLE FIBER.

CONTRACTOR NOTES
CONTRACTOR IS RESPONSIBLE FOR THE NOTIFICATION, LOCATION AND PROTECTION OF ALL UTILITIES THAT MAY EXIST WITHIN THE PROJECT LIMITS, AND FOR EXCAVATION, MOT, AND RESTORATION.

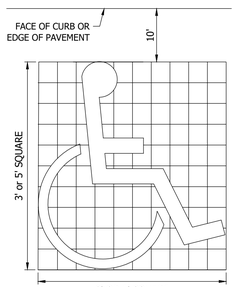
THE OWNER AND CONTRACTOR ARE RESPONSIBLE FOR MEETING ALL PROVISIONS OF ADA AND FLORIDA ACCESSIBILITY CODE, INCLUDING ACCESSIBLE ROUTE SIDEWALKS THAT WILL CONNECT TO PUBLIC SIDEWALKS ON S.R. 50.

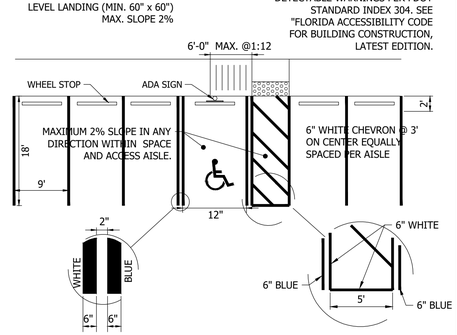
ALL SIGNAGE SHALL ADHERE TO CITY CODE CHAPTER 102 - SIGNS.

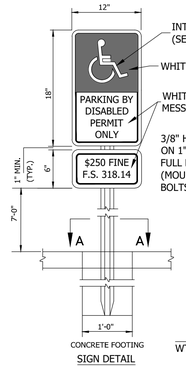
FENCING, IF APPROVED, SHALL MEET ALL CITY REQUIREMENTS FOR HEIGHT, TYPE, ETC. CHAIN LINK FENCING, IF APPROVED, SHALL BE VINYL COATED PER CODE.

THE CITY IS NOT RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF PRIVATELY OWNED SYSTEMS, TO INCLUDE, BUT NOT BE LIMITED TO, ROADWAYS, PARKING LOTS, DRAINAGE, STORMWATER PONDS OR ON-SITE UTILITIES.

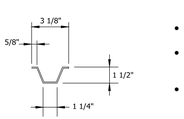
HANDICAP PARKING SPACE DETAILS







SIGN DETAIL
N.T.S



METAL POST
WT. OF BLANK POST SHALL BE 2-2 1/2"#/FT.
SECTION A - A

NOTES

- METAL POST TO BE GALVANIZED. ALL BOLTS, NUTS, WASHERS AND SCREWS MUST BE RUSTPROOF.
- CONCRETE FOR FOOTING SHALL BE PORTLAND CEMENT AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 P.S.I.
- SIGNS WILL BE FABRICATED BY USING REFLECTING COATING IN THE SYMBOL, MESSAGE AND BORDER APPLIED TO A SHEET ALUMINUM BACKING (.080) IN THICKNESS.
- MESSAGE LETTERING SHALL BE UPPER CASE (BLACK)(SERIES C) 1.5" HIGH IN ACCORDANCE WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. EXCEPT AS NOTED ON SHEET 2 OF 2.
- THE SYMBOL IS COMPOSED OF TWO ELEMENTS, A WHITE WHEELCHAIR FIGURE (WHICH SHOULD ALWAYS FACE RIGHT) ON A SQUARE BACKGROUND, INTERNATIONAL BLUE IN COLOR (FED. STD. 595a, COLOR #15180).
- SIGN POST SHALL BE MIN. 2'-0" CLEAR FROM BACK OF CURB.
- THE USE OF PROPERLY LOCATED BOLLARDS IN ACCESSIBLE PARKING SPACES ARE ACCEPTABLE SUBSTITUTES FOR REGULAR BUMPER GUARD.
- MINIMUM NUMBER OF ACCESSIBLE PARKING SPACES SHALL BE PER FLORIDA ACCESSIBILITY BUILDING CODE SECTION 4.6.3.
- AT LEAST ONE A.D.A SPACE SHALL BE SIGNED AS VAN ACCESSIBLE. SEE SITE PLAN FOR LOCATION(S). ACCESS AISLE SHOULD ALWAYS BE ON THE PASSENGER SIDE OF ALL VAN ACCESSIBLE SPACES.

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HOWARD CIVIL ENGINEERING, LLC
Land Development Civil Engineers
111 2nd Ave NE, #360, St. Petersburg, FL 33701
Phone: 813.962.6565

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THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND MAY NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

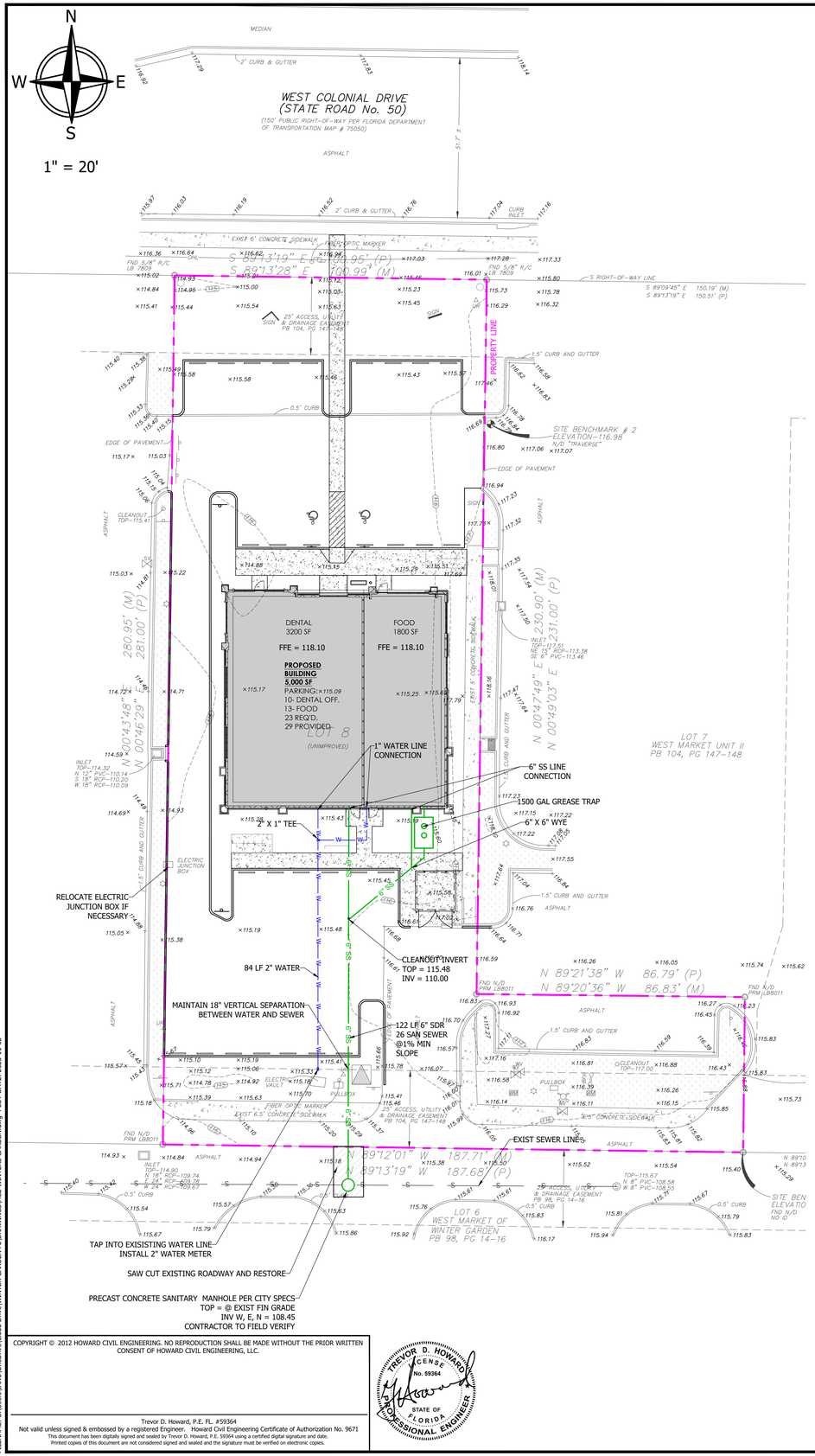
9/22/25 PER CITY
REVISIONS

SITE PLAN

COVENANT WINTER GARDEN
14134 W COLONIAL DR, WINTER GARDEN, FL 34787

SCALE 0 20
DRAWN BY: TREVOR HOWARD
CHECKED BY: TREVOR HOWARD
PROJ. MAN.: MEGAN STEENKAMP
JOB NO. 20250711WG
DATE: 2025/07/11
CAD FILE: 1
SHEET NO.
C3 - SITE PLAN

FILENAME: C:\Users\trevo\OneDrive\Cloud Drive\WINTER GARDEN FL\DRAWINGS\HCE WINTERS GARDEN.dwg PLOT DATE: 2025-10-01



LEGEND

- PROPERTY LINE
- BUILDING SETBACK LINE
- LANDSCAPE BUFFERS
- TYPE D CURB
- HANDICAP
- PARKING COUNT
- NEW CONCRETE SIDEWALK
- NEW ASPHALT PARKING
- EXIST ASPHALT
- EXIST GRASS
- EXISTING ELEVATION
- PROPOSED ELEVATION
- SURFACE RUNOFF DIRECTION
- STAKED SILT FENCE

CONNECTION TO CITY NOTE:

THE SITE SHALL BE SERVED BY CITY WATER, SEWER AND REUSE. ALL UTILITIES REQUIRED FOR THE DEVELOPMENT SHALL BE RUN TO THE SITE AT THE DEVELOPER'S EXPENSE, INCLUDING POTABLE WATER, RECLAIMED WATER AND SANITARY SEWER FOR THE ENTIRE PROJECT FRONTAGE.

SANITARY LATERALS, FITTINGS, AND PIPES SHALL BE SDR 26 PER CITY STANDARDS.

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9/22/25 PER CITY
REVISIONS

UTILITY PLAN

COVENANT WINTER GARDEN
14134 W COLONIAL DR, WINTER GARDEN, FL 34787

SCALE 0 20
DRAWN BY: TREVOR HOWARD
CHECKED BY: TREVOR HOWARD
PROJ. MAN.: MEGAN STEENKAMP
JOB NO. 20250711WG
DATE: 2025/07/11
CAD FILE: 1
SHEET NO.
C4 - UTILITY PLAN

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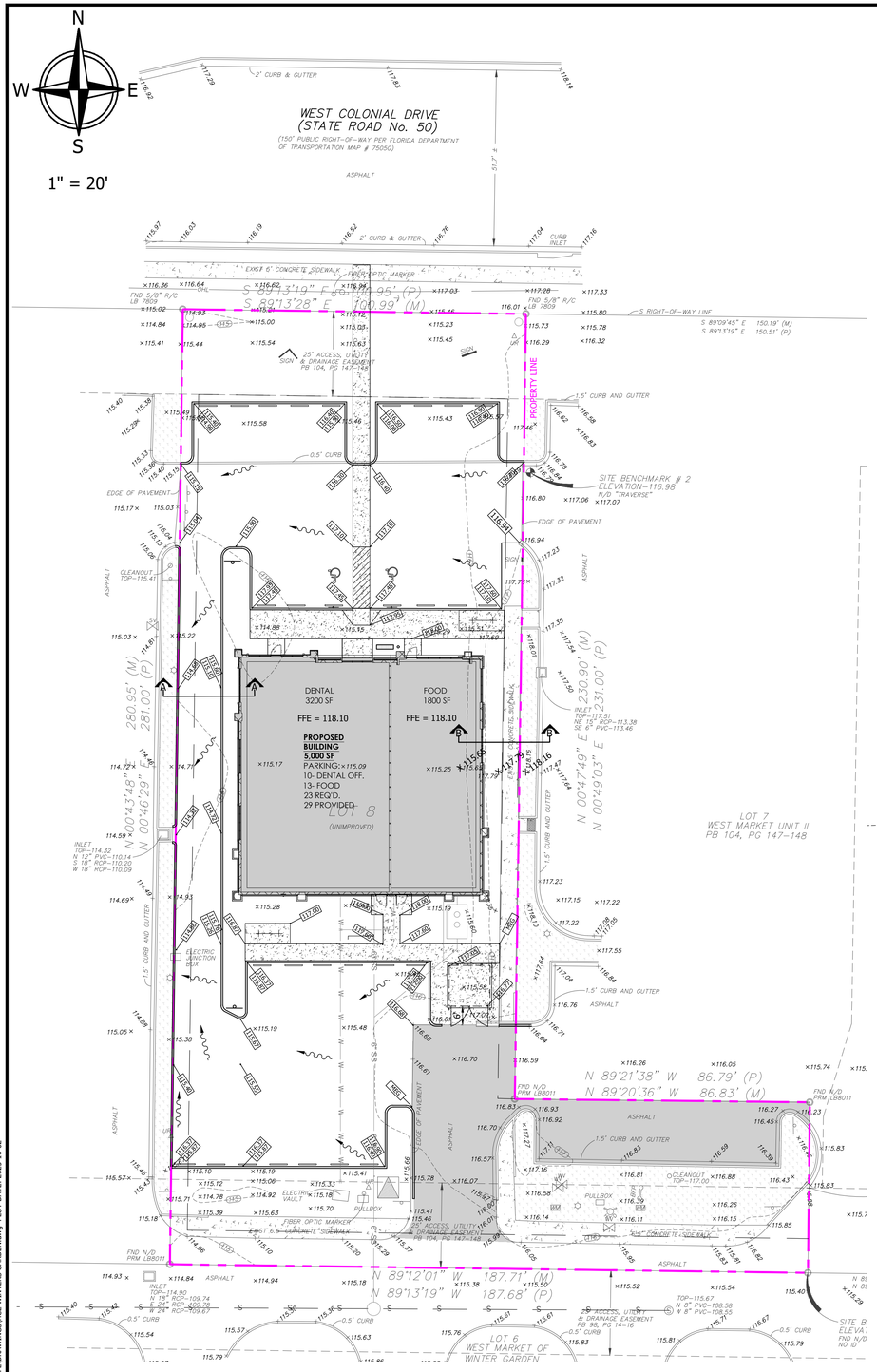

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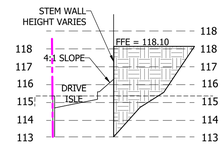
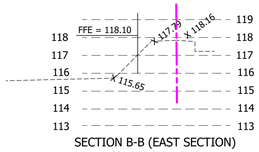


SECTION A-A (DRIVEWAY SECTION)
SCALE: VERTICAL 1"= 2'
HORIZONTAL 1" = 20'



SECTION B-B (EAST SECTION)
SCALE: VERTICAL 1"= 2'
HORIZONTAL 1" = 20'

TYPICAL PAVEMENT SECTIONS					
	Asphalt [4]			Concrete	
Component	Standard [1]	Heavy [2]	Super Heavy Duty [3]	Standard	Heavy
Stabilized Subgrade (LBR≥40)	12 inches	12 inches	12 inches	N/A	N/A
Base Course (LBR≥100 for Limerock or LBR≥150 for crushed concrete)	6 inches	8 inches	8 inches	N/A	N/A
Surface Course	1.5 inches	2 inches	4 inches	5 inches	6 inches

Technical Notes - Based on FDOT Standards and Specifications

1. For light duty pavement sections requiring a Structural Number (SN) no more than 2.70.
2. For heavy-duty pavement sections requiring a Structural Number (SN) no more than 3.28.
3. For pavement sections requiring a Structural Number (SN) up to 4.16 (typical of pavement with heavy truck traffic).
4. Type SP-9.5 and SP-12.5 asphalt should be applied in accordance with FDOT Standard of Specifications 334-1.4.1.
5. These typical pavement sections are based on assumed traffic loads and subgrade conditions per FDOT criteria and should be validated with site-specific LBR and geotechnical data for final design.
6. Limerock and crushed concrete base materials must comply with FDOT specifications for gradation, strength, and durability. Independent LBR verification is recommended.
7. Proper subgrade drainage is critical. High groundwater tables or inadequate separation between groundwater and the pavement structure can significantly reduce pavement performance.
8. According to FDOT and AASHTO guidance, if the separation between the seasonal high groundwater table (SHGWT) and the pavement base/subbase is:
   - < 12 inches, the Resilient Modulus (MR) may be reduced by up to 50%,
   - 12–24 inches, MR reduction is typically 25–40%,
   - 36 inches, full design MR may be used with minimal adjustment.
9. Reduced MR results in lower structural support, necessitating thicker base or surface layers, or the use of geosynthetics or underdrain systems to maintain pavement longevity.
10. These sections do not account for poor drainage, weak subgrade zones, or site-specific issues such as organics, muck, or utility conflicts, which may require additional ground improvement.
11. Concrete pavement design, if required for concrete pads, should consider joint spacing, reinforcement, and subbase support per FDOT and ACI recommendations.

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REVISIONS
1 9/22/25 PER CITY

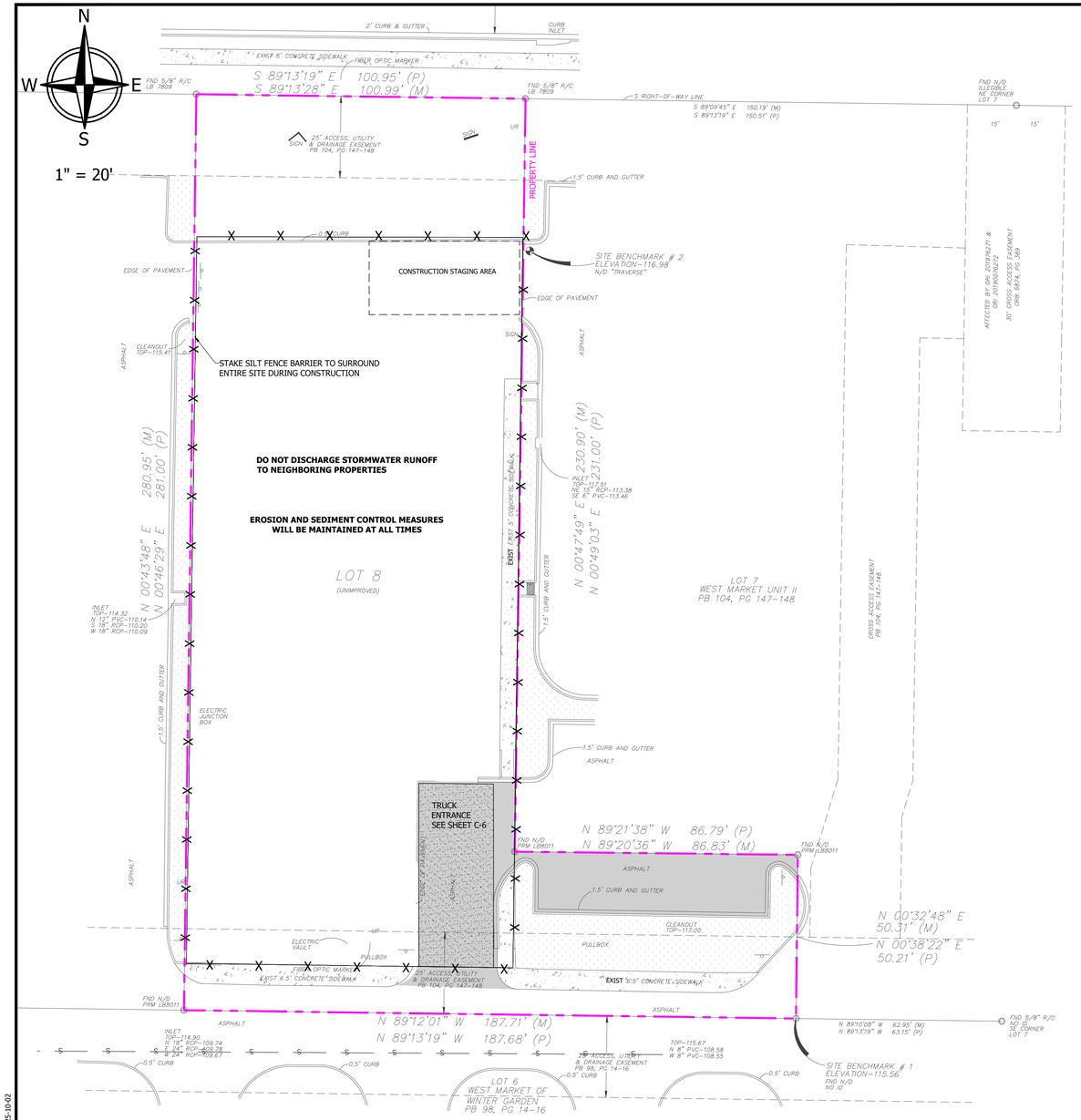
PAVING GRADING AND DRAINAGE PLAN

COVENANT WINTER GARDEN
14134 W COLONIAL DR, WINTER GARDEN, FL 34787

SCALE 0 20

DRAWN BY:	TREVOR HOWARD
CHECKED BY:	TREVOR HOWARD
PROJ. MAN.:	MEGAN STEENKAMP
JOB NO.	20250711WG
DATE:	2025/07/11
CAD FILE:	1
SHEET NO.	C5 - PAVING GRADING AND DRAINAGE PLAN

FILENAME: C:\Users\trevo\OneDrive\Cloud Drive\WINTER GARDEN FL\DRAWINGS\KCE WINTERS GARDEN.dwg PLOT DATE: 2025-10-02



LEGEND

- PROPERTY LINE
- BUILDING SETBACK LINE
- LANDSCAPE BUFFERS
- TYPE D CURB
- HANDICAP
- PARKING COUNT
- NEW CONCRETE SIDEWALK
- NEW ASPHALT PARKING
- EXIST ASPHALT
- EXIST GRASS
- EXISTING ELEVATION
- PROPOSED ELEVATION
- SURFACE RUNOFF DIRECTION
- STAKED SILT FENCE

NPDES NOTIFICATION (NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM)
THE EROSION/SEDIMENTATION LOCATIONS AND DETAILS SET FORTH IN THIS SITE PLAN HAVE BEEN DEVISED BY THE PROJECT ENGINEER TO MEET THE REQUIREMENTS OF THE FEDERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PROGRAM. FAILURE TO MAINTAIN THESE CONTROLS, OR AN ILLICIT DISCHARGE RESULTING FROM THEIR FAILURE WILL LIKELY RESULT IN FINE CITATIONS. SEC. 58-239 OF THE PINELLAS COUNTY CODE AUTHORIZES PENALTIES OF UP TO $10,000.00 FOR EACH OFFENSE.

ILLICIT DISCHARGE OF CONCRETE SLURRY
IT IS RECOMMENDED THAT THE GENERAL CONTRACTOR FOR THIS PROJECT PROVIDE A SUITABLE ON-SITE WASH DOWN AND CONCRETE DISPOSAL AREA, DISPOSAL OF CONCRETE SLURRY DIRECTLY OR INDIRECTLY INTO PUBLIC DRAINAGE SYSTEMS IS A VIOLATION OF THE "ILLICIT DISCHARGE" PROVISION OF THE PINELLAS COUNTY LAND DEVELOPMENT CODE, SEC. 58-239 OF THE PINELLAS COUNTY CODE AUTHORIZES PENALTIES OF UP TO $10,000.00 FOR EACH OFFENSE.

"I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND, AND SHALL COMPLY WITH, THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN PREPARED THEREUNDER."

NAME _____

TITLE _____

COMPANY NAME, ADDRESS _____

PHONE NUMBER _____

DATE _____

PROJECT DESCRIPTION:
BUILD A DENTAL OFFICE AND RESTAURANT WITH ASSOCIATED INFRASTRUCTURE.
SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:
(TIMES ARE APPROXIMATE AND TO CONTRACTORS BEST KNOWLEDGE)

- 0-2 DAYS, SITE PREP AND STABILIZED CONSTRUCTION ENTRANCE.
- 3-6 DAYS, INSTALL PERIMETER SEDIMENT AND EROSION CONTROLS.
- 7-10 DAYS, CLEARING/GRUBBING OVER ALL AREAS EXCEPT THOSE THAT ARE DESIGNATED AS BUFFERS/CONSERVATION EASEMENTS.
- 11-13 DAYS, SITE GRADING.
- 14-30 DAYS, INSTALL STORM SEWER AND UTILITIES.
- 31-42 DAYS, CONCRETE SLAB.
- 43-90 DAYS, FRAME STRUCTURE.
- 91-120 DAYS, FINISH BUILDING.
- 120-200 DAYS, STABILIZE SITE.

TOTAL AREA OF THE SITE: 0.75 ACRES

TOTAL AREA OF THE SITE TO BE DISTURBED: 0.51 ACRES

EXISTING SITE CONDITIONS:
EXISTING SITE IS CURRENTLY VACANT. SOIL TYPE IS MYAKKA SOILS AND MADE LAND WITH A SEASONAL WATER TABLE OF 2.0 FT BELOW EXISTING GRADE. THE PROPERTY IS MOSTLY FLAT.

SITE LOCATION:
LAT 28° 33' 01" N LONG 81° 35' 39" W

DISCHARGE:
DISCHARGES TO A STORMWATER INTO THE STORMWATER DRAINAGE SYSTEM OF BELONGING TO CITY OF WINTER GARDEN.

GENERAL NOTES:

- PRIOR TO CLEARING, A SILT FENCE (TRENCHED 4 INCHES DEEP AND BACKFILLED ON THE UPHILL SIDE), REINFORCED WITH STAKES (THAT ARE TRENCHED 4 INCHES DEEP, BACKFILLED ON THE UPHILL SIDE, AND STAKED WITH AT LEAST TWO 2" X 2" WOODEN STAKES) SHALL BE INSTALLED AROUND THE PERIMETER OF THE SITE. A DOUBLE ROW OF SILT FENCE REINFORCED WITH PROPERLY (WITH THE SAME INSTALLATION AS ABOVE) IN ADDITION TO A VEGETATION BARRIER SHALL BE PLACED AROUND THE VEGETATIVE BUFFERS AND WETLAND AREA AS SHOWN ON SITE PLAN.
- DURING THE CLEARING, GRUBBING AND SITE GRADING STAGES, AREAS THAT ARE DISTURBED MORE THAN 7 DAYS SHALL BE STABILIZED WITH RYE GRASS APPLIED AT MANUFACTURER'S RECOMMENDATIONS. AFTER SEEDING, EACH AREA SHALL BE MULCHED WITH 4,000 POUNDS OF STRAW PER ACRE. ALL EXPOSED SLOPES THAT ARE EQUAL TO OR GREATER THAN 5%, AN EROSION BLANKET® SHALL BE UTILIZED UNTIL THE AREA ACHIEVES FINAL STABILIZATION. A ROCK ACCESS ROAD (THAT IS 50FT LONG WITH A 6 INCH DEPTH OF FDOT #4 STONE AND LINED WITH FILTER FABRIC) SHALL BE CONSTRUCTED TO MINIMIZE THE EFFECTS OF TRUCK TRAFFIC AND SEDIMENTATION TRACKING BOTH ON AND OFF OF THE SITE. THERE WILL BE ONLY ONE CONSTRUCTION ENTRANCE AT THIS SITE.
- AFTER THE INITIAL SITE GRADING WORK, ALL PROPOSED INLET(S)/OUTFALLS, ONCE INSTALLED, SHALL BE PROTECTED FROM EROSION AND SEDIMENT RUNOFF BY THE USE OF FILTER FABRIC (WITH THE SAME INSTALLATION AS ABOVE). DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED SHALL BE STABILIZED WITH PERMANENT SEED OR OTHER PERMANENT STABILIZATION METHODS (IF OTHER METHODS ARE UTILIZED, THIS SWPPP WILL BE MODIFIED) NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY. SEEDING SHALL BE THE SAME AS IN TEMPORARY SEEDING.
- ALL INSTALLATION SHALL BE COMMENCED AS DEPICTED ON THE ATTACHED SITE MAP AND INSTALLATION "TYPICALS" SHEET.
- TEMPORARY SEEDING SHALL BE RYE GRASS APPLIED AT MANUFACTURER'S RECOMMENDATIONS TO ANY DISTURBED AREAS THAT ARE INACTIVE MORE THAN 7 DAYS.
- MULCHING PRACTICES AND SOD SHALL BE APPLIED TO THE PARKING LOT ISLAND.
- SOD SHALL BE USED TO STABILIZE THE SIDES OF THE RETENTION POND. (BAHIA)
- FILTER FABRIC SHALL BE PLACED UNDER THE ROCK ENTRANCE/EXIT, THE SWALE OUTFALL AND THE STORMWATER RETENTION POND OUTFALL.
- VEGETATIVE BUFFERS SHALL BE LEFT UNDISTURBED.
- A SILT FENCE REINFORCED (WITH THE SAME INSTALLATION AS INDICATED UNDER THE BEST MANAGEMENT PRACTICES HEADING) SHALL BE PLACED AROUND THE ENTIRE PERIMETER. A DOUBLE ROW OF SILT FENCE REINFORCED (WITH THE SAME INSTALLATION AS INDICATED UNDER THE BEST MANAGEMENT PRACTICES HEADING) IN ADDITION TO A VEGETATION BARRIER SHALL BE PLACED AROUND THE VEGETATIVE BUFFERS AND WETLAND AREA IF ANY ARE ON SITE.
- A RETENTION POND SHALL BE CONSTRUCTED AS SHOWN ON THE PAVING, GRADING AND DRAINAGE PLAN, AND MAY BE USED AS A TEMPORARY SEDIMENT BASIN (PRIOR TO BEING CONNECTED TO A DISCHARGE STRUCTURE) IF NEEDED. CARE SHALL BE TAKEN TO ASSURE THE REMOVAL OF ACCUMULATED FINE SEDIMENTS AND THAT THE EXCESSIVE COMPACTION OF SOIL BY CONSTRUCTION MACHINERY IS AVOIDED.
- INLET(S)/OUTFALLS SHALL BE PROTECTED WITH FILTER FABRIC (WITH THE SAME INSTALLATION AS INDICATED UNDER THE BEST MANAGEMENT PRACTICES HEADING).
- ROCK OUTLET PROTECTION LINED WITH FILTER FABRIC SHALL BE INSTALLED AT ALL OUTFALL POINTS.
- ALL CONSTRUCTION TO BE IN ACCORDANCE WITH APPROVED PLANS AND SWFWMD PERMIT.
- ALL CONSTRUCTION MATERIALS AND DEBRIS WILL BE PLACED IN A DUMPSTER AND HAULED OFF SITE TO A LANDFILL OR OTHER PROPER DISPOSAL SITE. THE DUMPSTER SHALL BE LOCATED AS SHOWN ON THE SITE MAP. NO MATERIALS WILL BE BURIED ON SITE.
- OFF SITE VEHICLE TRACKING OF SEDIMENTS AND DUST GENERATION WILL BE MINIMIZED VIA A ROCK CONSTRUCTION ENTRANCE, DAILY STREET SWEEPING AND THE USE OF WATER TO KEEP DUST DOWN.

THE PROPER APPLICATION RATES OF ALL FERTILIZERS, HERBICIDES AND PESTICIDES USED AT THE CONSTRUCTION SITE:

- FERTILIZERS AND PESTICIDES WILL BE USED AT A MINIMUM AND IN ACCORDANCE WITH THE MANUFACTURER'S SUGGESTED APPLICATION RATES. THE FERTILIZERS AND PESTICIDES WILL BE STORED IN A COVERED SHED, AS INDICATED ON SITE MAP.

THE STORAGE, APPLICATION, GENERATION AND MIGRATION OF ALL TOXIC SUBSTANCES:

- A SPILL PREVENTION PLAN IS IN PLACE. A DOUBLE WALLED FUEL TANK WILL BE PLACED ON A DRIP PAN TO CONTAIN AND PREVENT ANY DRIPS OR LEAKS FROM BEING DISCHARGED IN STORMWATER RUNOFF. ALL PAINTS AND OTHER CHEMICALS WILL BE STORED IN A LOCKED COVERED SHED, AS INDICATED ON SITE MAP.
- PORT-O-LETS WILL BE PLACED AWAY FROM STORM SEWER SYSTEMS, STORM INLET(S), SURFACE WATERS AND WETLANDS. SPECIFIC PLACEMENT IS DEPICTED ON THE SITE MAP. NO VEHICLE MAINTENANCE SHALL BE CONDUCTED ON-SITE. A WASHDOWN AREA SHALL BE DESIGNATED AT ALL TIMES AND WILL NOT BE LOCATED IN ANY AREA THAT WILL ALLOW FOR THE DISCHARGE OF POLLUTED RUNOFF. A SMALL-VEGETATED BERM SHALL BE PLACED AROUND THE WASHDOWN AREA.

CONTRACTOR SHALL PROVIDE ROUTINE MAINTENANCE OF PERMANENT AND TEMPORARY SEDIMENT AND EROSION CONTROL FEATURES IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS OR AS FOLLOWS, WHICHEVER IS MORE STRINGENT:

- SILT FENCE SHALL BE INSPECTED AT LEAST WEEKLY. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
- SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THEY REACH APPROXIMATELY 1/4 THE HEIGHT OF THE BARRIER.
- MAINTENANCE SHALL BE PERFORMED ON THE ROCK ENTRANCE WHEN ANY VOID SPACES ARE FULL OF SEDIMENT.
- INLET(S)/OUTFALLS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAIN EVENT, SILT FENCE, OR FILTER FABRIC SHALL BE PERFORMED IMMEDIATELY.
- BARE AREAS OF THE SITE THAT WERE PREVIOUSLY SEEDED SHALL BE RESEEDED PER MANUFACTURES' INSTRUCTIONS.
- MULCH AND SOD THAT HAS BEEN WASHED OUT SHALL BE REPLACED IMMEDIATELY.
- MAINTAIN ALL OTHER AREAS OF THE SITE WITH PROPER CONTROLS AS NECESSARY.
- INSPECTIONS MUST OCCUR AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM EVENT THAT IS 0.50 INCHES OR GREATER.
- QUALIFIED PERSONNEL WILL INSPECT ALL POINTS OF DISCHARGES, ALL DISTURBED AREAS OF CONSTRUCTION THAT HAVE NOT BEEN STABILIZED, CONSTRUCTED AREAS AND LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE AT LEAST ONCE EVERY 7 CALENDAR DAYS OR WITHIN 24 HOURS OF THE END OF A RAINFALL EVENT THAT IS 0.5 INCHES OR GREATER.
- WHERE SITES HAVE BEEN FINALLY STABILIZED, SAID INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH UNTIL THE NOTICE OF TERMINATION IS FILED.

IT IS EXPECTED THAT THE FOLLOWING NON-STORMWATER DISCHARGES MAY OCCUR FROM THE SITE DURING CONSTRUCTION PERIOD: WATER FROM WATER LINE FLUSHING, PAVEMENT WASH WATER (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED), AND UNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION), IF SAID DISCHARGES DO OCCUR, THEY WILL BE DIRECTED TO THE TEMPORARY SEDIMENT BASIN PRIOR TO DISCHARGE. TURBID WATER FROM THE STORMWATER POND SHALL NOT BE PUMPED DIRECTLY INTO EITHER OF THE RECEIVING WATERS. ANY PUMPED WATER FROM THE STORMWATER POND SHALL BE TREATED SO AS TO NOT ALLOW A DISCHARGE OF POLLUTED STORMWATER. TREATMENT CAN INCLUDE SILT FENCES, SETTLING PONDS, THE PROPER USE OF FLOCCULATING AGENTS OR OTHER APPROPRIATE MEANS.

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TREVOR D. HOWARD LICENSE No. 59364 STATE OF FLORIDA PROFESSIONAL ENGINEER

Trevor D. Howard, P.E. FL. #59364
Not valid unless signed & embossed by a registered Engineer. Howard Civil Engineering Certificate of Authorization No. 9671
This document has been digitally signed and sealed by Trevor D. Howard, P.E. 59364 using a certified digital signature and date.
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HOWARD CIVIL ENGINEERING, LLC
Land Development Civil Engineers
111 2nd Ave NE, #360, St. Petersburg, FL 33701
Phone: 813.962.6565

Know what's **below.** **Call** before you dig.
FOR THE LOCATION OF UNDERGROUND FACILITIES
811
THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR, BY REASON OF THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

REVISIONS

SWPP PLAN

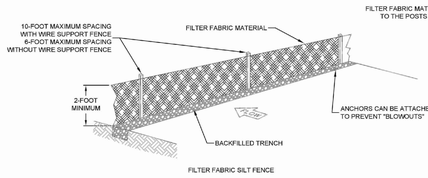
COVENANT WINTER GARDEN
14134 W COLONIAL DR, WINTER GARDEN, FL 34787

SCALE 0 20
DRAWN BY: TREVOR HOWARD
CHECKED BY: TREVOR HOWARD
PROJ. MAN.: MEGAN STEENKAMP
JOB NO. 20250711WG
DATE: 2025/07/11
CAD FILE: 1
SHEET NO.
C6 - SWPP PLAN

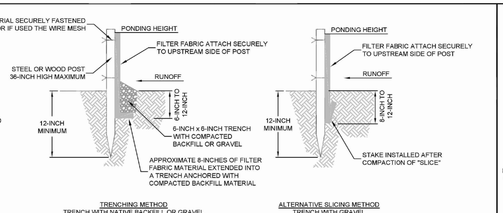
FILENAME: C:\Users\trevo\OneDrive\Cloud Drive\WINTER GARDEN FL\DRAWINGS\HCE WINTERS GARDEN.dwg PLOT DATE: 2025-10-02

STORMWATER POLLUTION PREVENTION PLAN

PERMITTED DRAWINGS SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWFWMD)
For construction permits, the Permittee shall notify the District in writing when construction begins.

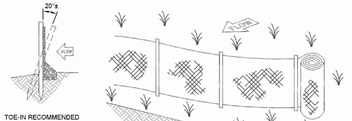


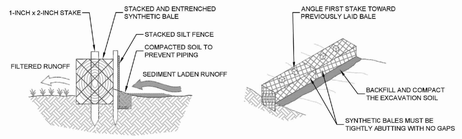
FILTER FABRIC SILT FENCE



TRENCHING METHOD
TRENCH WITH NATIVE BACKFILL OR GRAVEL

ALTERNATIVE SLICING METHOD
TRENCH WITH GRAVEL





PROPER PLACEMENT OF SYNTHETIC BALE BARRIER IN DRAINAGE WAY

ATTACHING TWO SILT FENCES

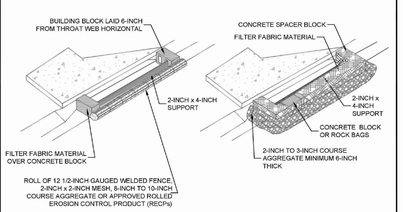
1. PLACE THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE
2. ROTATE BOTH POSTS AT LEAST 180 DEGREES IN A CLOCKWISE DIRECTION TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL
3. DRIVE BOTH POSTS ABOUT 10 INCHES INTO THE GROUND AND BURY FLAP

NOTES:
1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED
3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY
4. SEE FDOT INDEX 102 FOR ADDITIONAL DETAILS FOR TYPE I, II & TYPE III BARRIERS & SILT FENCE.

SEE FDOT INDEX 102 FOR RECOMMENDED SPACING FOR SYNTHETIC BALES OR BALE TYPE BARRIERS AND TYPE III SILT FENCE

TEMPORARY EROSION AND SEDIMENT CONTROL BARRIERS SILT FENCE & SYNTHETIC BALES

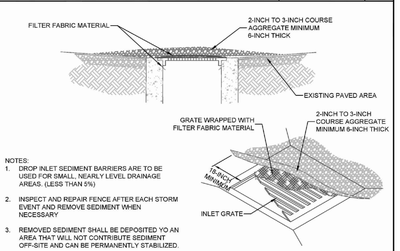
SCALE: NTS | 1



NOTES:
1. FIBROUS FILTER MATERIAL IN FRONT OF BLOCK PREVENTS GRAVEL FROM WASHING INTO STRUCTURE.
2. 2-INCH x 4-INCH BEHIND BLOCK AND ACROSS THROAT HELPS KEEP BLOCK IN PLACE PLACE IN OUTER HOLE OF SPACER BLOCK.
3. FILTER FABRIC AND AGGREGATE, SIMILARLY PLACED, MAY ALSO BE USED.

TEMPORARY EROSION CONTROL FILTER FABRIC OVER GRATE INLET

SCALE: NTS | 2



NOTES:
1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS. (LESS THAN 5%)
2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY
3. REMOVED SEDIMENT SHALL BE DEPOSITED YO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
4. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY

POST PAVEMENT EROSION CONTROL FILTER FABRIC OVER GRATE INLET

SCALE: NTS | 3

EROSION AND SEDIMENT CONTROL NOTES

GENERAL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM SITE IF NOT REUSABLE ON-SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL DITCHES AND SWALES AT COMPLETION OF CONSTRUCTION.
2. THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
3. ADDITIONAL PROTECTION - ON-SITE PROTECTION IN ADDITION TO THE ABOVE MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINES DUE TO UNSEEN CONDITIONS OR ACCIDENTS.
4. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
5. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST MANAGEMENT PRACTICES (BMP) AND MOST CURRENT EROSION AND SEDIMENT CONTROL PRACTICES. THIS PLAN INDICATES THE MINIMUM EROSION AND SEDIMENT MEASURES REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE RULES, REGULATIONS AND WATER QUALITY GUIDELINES AND MAY NEED TO INSTALL ADDITIONAL CONTROLS.
6. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL - DESIGNER AND REVIEWER MANUAL (JUNE 2007)" FOR THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (F.D.E.P.) & THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION, (F.D.O.T.) AND F.D.O.T. DESIGN STANDARDS INDEX 102.
7. THE CONTRACTOR SHALL BE REQUIRED TO RESPOND TO ALL F.D.O.T., F.D.E.P. AND WATER MANAGEMENT DISTRICT INQUIRIES, RELATIVE TO COMPLIANCE OF F.D.O.T., F.D.E.P. AND WATER MANAGEMENT DISTRICT FOR EROSION AND SEDIMENTATION CONTROL. THE COST OF THIS COMPLIANCE SHALL BE PART OF THE CONTRACT.

PRE-CONSTRUCIION SITE PROTECTION:

8. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADAIEN. SEE DETAIL SHEET FOR TYPICAL CONSTRUCTION.
9. ANY DISCHARGE FROM DEWATERING ACTIVITY SHALL BE FILTERED AND CONVEYED TO THE OUTFALL IN A MANNER WHICH PREVENTS EROSION AND TRANSPORTATION OF SUSPENDED SOLIDS TO THE RECEIVING OUTFALL.
10. DEWATERING PUMPS SHALL NOT EXCEED THE CAPACITY OF THAT WHICH REQUIRES A CONSUMPTIVE USE PERMIT FROM THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
11. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-THIRD (1/3) THE HEIGHT OF THE BARRIER OR INLET. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
12. ALL DISTURBED AREAS ARE TO BE STABILIZED THROUGH COMPACTION. SILT SCREENS, SYNTHETIC BALES, AND GRASSING. ALL FILL SLOPES 3:1 OR STEEPER TO RECEIVE STAKED SOLID SOD.

SITE PROTECTION:

13. THE FILTER BARRIER SHALL BE ENTRENCHED AND BACKFILLED PROPERLY. A TRENCH SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 6 INCHES. BARRIER IS STAKED. THE EXCAVATED SOIL OR GRAVEL SHALL BE BACKFILLED AND COMPACTED AGAINST THE FILTER BARRIER. USING WIRE BACKING FOR SUPPORT IS DISCOURAGED DUE TO DISPOSAL PROBLEMS.
14. WATER OR SLURRY USED TO CONTROL DUST SHALL BE RETAINED ON THE SITE AND NOT ALLOWED TO RUN DIRECTLY INTO WATERCOURSE OR STORMWATER CONVEYANCE SYSTEMS.
15. SPECIAL AREAS SHALL BE DESIGNATED AS VEHICLE AND EQUIPMENT WASHING AREAS AND SUCH AREAS SHALL NOT ALLOW RUNOFF TO FLOW DIRECTLY INTO WATERCOURSE OR STORMWATER CONVEYANCE SYSTEMS.
16. SILT FENCE BARRIERS ARE NOT TO BE USED WHERE CONCENTRATED FLOWS OF WATER ARE ANTICIPATED SUCH AS DRAINAGE DITCHES. AROUND INLETS OR ABOVE/ BELOW WHERE CULVERTS DISCHARGE.
17. SYNTHETIC BALES, SANDBAGS OR OTHER APPROVED DEVICE FACED WITH FILTER FABRIC SHALL BE USED IN HIGH VOLUME AREAS TO DECREASE THE RUNOFF VELOCITY AND SHALL BE SECURELY ANCHORED.
18. ALL DEVICES INCLUDING SILT FENCE, FILTER BARRIERS, SYNTHETIC BALES AND/OR SANDBAGS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BARRIERS. END RUNS AND UNDERCUTTING BENEATH BARRIERS.
19. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
20. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

STORM DRAIN INLET PROTECTION:

21. FILTER FABRIC SHALL BE LAID OVER INLETS SO THAT THE FABRIC EXTEND A MINIMUM OF 1 FOOT BEYOND EAST SIDE OF THE INLET STRUCTURE. FILTER FABRIC IN CONFORMANCE WITH F.D.O.T. INDEX 985 OR COMPARABLE SHALL BE USED. IF MORE THAN ONE STRIP OF FABRIC IS NECESSARY, THE STRIPS SHALL BE OVERLAPPED.
22. 2 INCH - 3 INCH COARSE AGGREGATE SHALL BE PLACED OVER THE FILTER FABRIC. THE DEPTH OF STONE SHALL BE AT LEAST 6 INCHES OVER THE ENTIRE INLET OPENING. THE STONE SHALL EXTEND BEYOND THE INLET OPENING AT LEAST 18 INCHES ON ALL SIDES.
23. IF STONE FILTERS BECOME CLOGGED WITH SEDIMENT SO THAT THEY NO LONGER ADEQUATELY PERFORM THEIR FUNCTION, THE STONES MUST BE PULLED AWAY FROM THE INLET, CLEANED AND REPLACED.

POST-CONSTRUCTION SITE PROTECTION:

24. ALL DEWATERING, EROSION AND SEDIMENT CONTROL TO REMAIN IN PLACE AFTER COMPLETION OF CONSTRUCTION AND REMOVED ONLY WHEN AREAS HAVE STABILIZED.
25. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER TEMPORARY BARRIERS ARE NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA IN SUCH A MANNER THAT IT WILL NOT ERODE.
26. ALL DISTURBED AREAS SHALL BE GRASSED, FERTILIZED, MULCHED AND MAINTAINED UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED.
27. SOD SHALL BE PLACED IN AREAS WHICH MAY REQUIRE IMMEDIATE EROSION PROTECTION TO ENSURE WATER QUALITY STANDARDS ARE MAINTAINED.

Nisit Sapparkhao, State of Florida, Professional Engineer, License No. 64085

This item has been electronically signed and sealed by Nisit Sapparkhao, PE. On 09/13/2017 using a SHA-1 authentication code.

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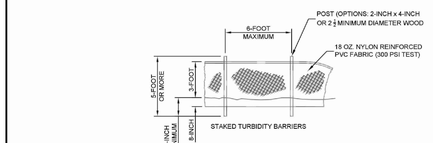
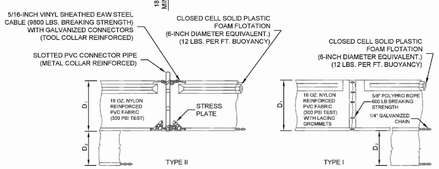
NOTE:
THE WATER MANAGEMENT DISTRICT FOR THIS PROJECT IS THE SOUTH WEST FLORIDA WATER MANAGEMENT DISTRICT (S.W.F.W.M.D.)

NOTE:
WHERE F.D.O.T. SPECS AND INDEX ARE REFERENCED, PLEASE REFER TO F.D.O.T DESIGN STANDARDS FOR DESIGN, CONSTRUCTION MAINTENANCE AND UTILITY OPERATIONS MANUAL, UPDATE VERSION 2008.





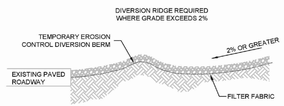
FLOATING TURBIDITY BARRIERS

NOTES:
1. TURBIDITY BARRIERS ARE TO BE USED IN ALL PERMANENT BODIES OF WATER REGARDLESS OF WATER DEPTH.
2. NUMBER AND SPACING OF ANCHORS DEPENDENT ON CURRENT VELOCITIES.
3. DEPLOYMENT OF BARRIER AROUND PILE LOCATIONS MAY VARY TO ACCOMMODATE CONSTRUCTION OPERATIONS.
4. NAVIGATION MAY REQUIRE SEGMENTING BARRIER DURING CONSTRUCTION OPERATIONS.
5. FOR ADDITIONAL INFORMATION SEE SECTION 104 OF THE FDOT STANDARD SPECIFICATIONS.

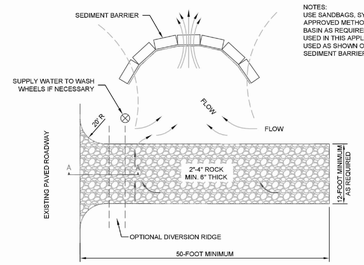
TURBIDITY BARRIERS FOR FLOWING STREAMS AND TIDAL CREEKS MAY BE EITHER FLOATING, OR STAKED TYPES OR ANY COMBINATIONS OF TYPES THAT WILL SUIT SITE CONDITIONS AND MEET EROSION CONTROL AND WATER QUALITY REQUIREMENTS. THE BARRIER TYPE(S) WILL BE AT THE CONTRACTORS OPTION UNLESS OTHERWISE SPECIFIED IN THE PLANS. HOWEVER, PAYMENT WILL BE UNDER THE CONTRACT LUMP SUM PRICE ESTABLISHED IN THE BID PROPOSAL FOR EROSION AND SEDIMENT CONTROL POSTS IN STAKED TURBIDITY BARRIERS TO BE INSTALLED IN VERTICAL POSITION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

TEMPORARY TURBIDITY BARRIERS

SCALE: NTS | 4



SECTION A-A



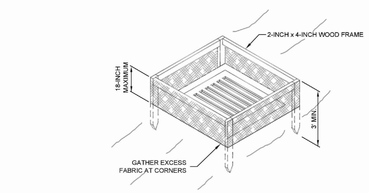
PLAN

NOTES:
USE SANDBAGS, SYNTHETIC BALES OR OTHER APPROVED METHODS TO CHANELIZE RUNOFF TO BASIN AS REQUIRED WHEN SYNTHETIC BALES ARE USED IN THIS APPLICATION. SILT FENCE SHALL BE USED AS SHOWN ON THE UPSTREAM SIDE OF THE SEDIMENT BARRIER. SEE FOOT INDEX NO. 607.

NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
4. SEE FDOT INDEX NO. 106

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE (SOIL TRACKING PREVENTION DEVICE)

SCALE: NTS | 5



SECTION A-A

NOTES:
1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS. (LESS THAN 5")
2. USE 2-INCH X 4-INCH WOOD OR EQUIVALENT METAL STAKES. (3-FOOT MINIMUM LENGTH)
3. INSTALL 2-INCH X 4-INCH WOOD TOP FRAME TO INSURE STABILITY.
4. THE TOP OF THE FRAME (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BYPASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.

PRE-PAVEMENT SEDIMENT BARRIER AT GRATE INLET

SCALE: NTS | 6

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Trevor D. Howard, P.E. FL. #59364
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Phone: 813.962.6565

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REVISIONS

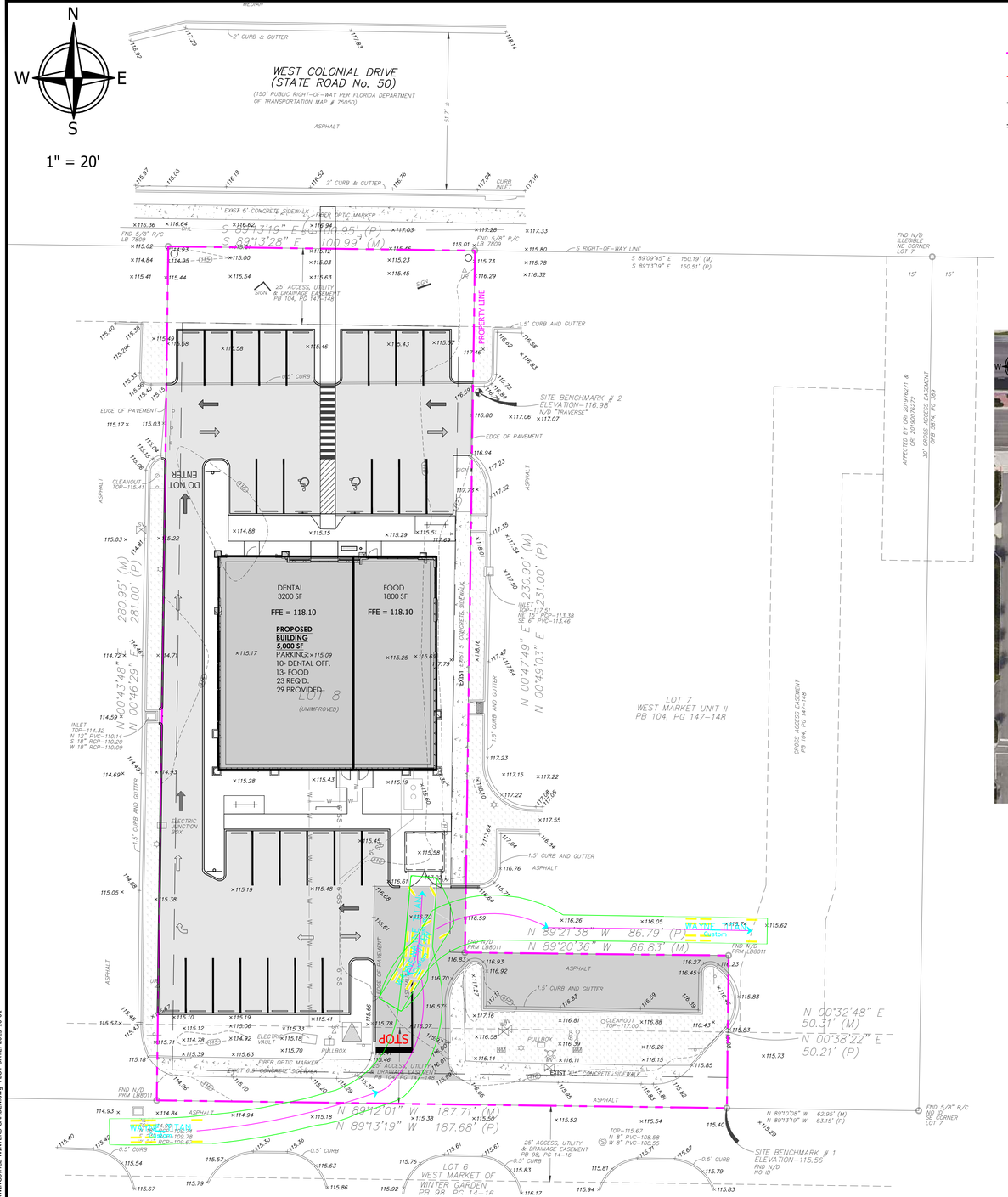
SWPP DETAILS

COVENANT WINTER GARDEN
14134 W COLONIAL DR, WINTER GARDEN, FL 34787

SCALE 0

DRAWN BY: TREVOR HOWARD
CHECKED BY: TREVOR HOWARD
PROJ. MAN.: MEGAN STEENKAMP
JOB NO. 20250711WG
DATE: 2025/07/11
CAD FILE: 1
SHEET NO.
C7 - SWPP DETAILS

FILENAME: C:\Users\trevo\OneDrive\Cloud Drive\WINTER GARDEN FL\DRAWINGS\HCE WINTERS GARDEN.dwg PLOT DATE: 2025-10-02

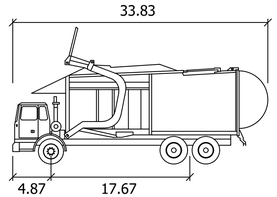


LEGEND

- PROPERTY LINE
- BUILDING SETBACK LINE
- LANDSCAPE BUFFERS
- TYPE D CURB
- HANDICAP
- (7) PARKING COUNT
- NEW CONCRETE SIDEWALK
- NEW ASPHALT PARKING
- EXIST ASPHALT
- EXIST GRASS

AERIAL VIEW

SCALE: N.T.S.
PLAN REFERENCE



Wayne Titan

	feet
Width	: 8.46
Track	: 8.00
Lock to Lock Time	: 6.0
Steering Angle	: 45.0

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Know what's **below.** **Call** before you dig. 811 FOR LOCATION OF UNDERGROUND FACILITIES

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE, AS SHOWN IN AN APPROXIMATE WAY ONLY, AND MAY NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

REVISIONS

AUTOTURN

WINTER GARDEN ALTA FL
14134 W COLONIAL DR, WINTER GARDEN, FL 34787

SCALE 0 20

DRAWN BY:	TREVOR HOWARD
CHECKED BY:	TREVOR HOWARD
PROJ. MAN.:	MEGAN STEENKAMP
JOB NO.	20250711WG
DATE:	2025/07/11
CAD FILE:	1
SHEET NO.	C8 - AUTOTURN

FILENAME: C:\Users\megan\OneDrive\Cloud Drive\WINTER GARDEN FL\DRAWINGS\WG WINTERS GARDEN.dwg PLOT DATE: 2025-10-01

CITY OF WINTER GARDEN - GENERAL NOTES:

1. ALL UTILITY SYSTEMS AND IMPROVEMENTS CONSTRUCTED IN THE CITY OF WINTER GARDEN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MANUAL OF STANDARDS AND SPECIFICATIONS FOR UTILITY CONSTRUCTION FOR THE CITY OF WINTER GARDEN, TO BE REFERRED TO AS MSS/CWG, THE LATEST EDITION AT THE TIME PERMITS ARE APPROVED SHALL BE EFFECTIVE FOR THE DURATION OF THE SUBJECT WORK OR PROJECT DEVELOPMENT.
2. THE CITY OF WINTER GARDEN GENERAL NOTES AND DETAILS ARE PROVIDED FOR THE CONVENIENCE OF FIELD PERSONNEL. THEY DO NOT INCLUDE ALL REQUIREMENTS OF THE MSS/CWG. THE CONTRACTOR SHALL REFER TO THE FULL TEXT OF THE MSS/CWG FOR FURTHER DETAIL AND CLARITY WHEN NEEDED.
3. ANY REQUEST FOR VARIANCE OR NONCOMPLIANCE FROM THE MSS/CWG NOTED ABOVE MUST BE APPROVED BY THE CITY ENGINEER OR UTILITIES DIRECTOR.
4. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN EXCAVATING IN CLOSE PROXIMITY TO WATER, WASTEWATER, RECLAIMED WATER AND OTHER UTILITY SYSTEMS. THE CONTRACTOR SHALL COORDINATE UTILITY LOCATIONS WITH RESPECTIVE UTILITY OWNERS AND/OR CALL,"SUNSHINE ONE CALL", 1-800-432-4770 A MINIMUM OF 72 HOURS IN ADVANCE.
5. CONTRACTOR'S DAMAGE OF WINTER GARDEN UTILITY SYSTEM: THE CONTRACTOR SHALL IMMEDIATELY NOTIFY AND REPORT DAMAGE TO THE CITY OF WINTER GARDEN UTILITY DIVISION, (NO MESSAGE) PHONE # 407-656-4100.
6. IMMEDIATE REPAIR OF DAMAGED UTILITY SYSTEM: THE CONTRACTOR SHALL IMMEDIATELY REPAIR ANY DAMAGE TO THE CITY OF WINTER GARDEN UTILITY SYSTEM AS REQUIRED BY THE UTILITY OWNER AT CONTRACTORS COST. IN CASE OF UNRESPONSIVE ACTION BY THE CONTRACTOR, THE CITY RESERVES RIGHT TO REPAIR DAMAGE. THE CONTRACTOR SHALL REIMBURSE THE CITY OF WINTER GARDEN OF ALL REPAIR COST.
7. ADVANCE NOTIFICATION OF CONSTRUCTION: THE CONTRACTOR SHALL NOTIFY CITY OF WINTER GARDEN, UTILITY DIVISION, PH.# 407-656-4100, AT LEAST SEVEN (7) CALENDAR DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY.
8. ADVANCE NOTIFICATION OF UTILITY CONNECTION: THE CONTRACTOR SHALL NOTIFY THE CITY OF WINTER GARDEN AT LEAST SEVEN CALENDAR DAYS IN ADVANCE TO SCHEDULE CONNECTIONS TO UTILITY SYSTEM.
9. UTILITY VALVE OPERATION: ONLY CITY OF WINTER GARDEN UTILITY PERSONNEL SHALL OPERATE VALVES AND FIRE HYDRANTS. THE CONTRACTOR, WHEN NEEDED, SHALL CALL THE CITY TO REQUEST VALVE OPERATIONS AT LEAST TWO (2) DAYS IN ADVANCE OF CONSTRUCTION WORK.
10. OPERATIONS INVOLVING WATER OR WASTEWATER FACILITIES INCLUDING PUMPING STATIONS: THE CONTRACTOR SHALL COORDINATE AT LEAST TWO (2) WEEKS IN ADVANCE, ANY CONSTRUCTION OPERATION THAT MAY REQUIRE THE DISCONTINUATION OF SERVICE OR OPERATION OF A FACILITY. THE CITY WILL PROVIDE PERSONNEL TO OPERATE THE CITY FACILITIES.
11. REQUIRED TESTING BY CONTRACTOR: THE CONTRACTOR SHALL NOTIFY THE CITY OF WINTER GARDEN AT LEAST TWO (2) DAYS PRIOR TO SAMPLING ACTIVITIES FOR PURPOSE OF TESTING AS REQUIRED BY THE CITY. THE CONTRACTOR SHALL NOT TEST OR SAMPLE WITHOUT OBSERVATION BY CITY INSPECTION PERSONNEL.
12. TEMPORARY OR CONSTRUCTION WATER SERVICE CONNECTIONS PROVIDED BY FIRE HYDRANT CONNECTION: THE CITY WILL PROVIDE METER ON FIRE HYDRANT. THE CONTRACTOR SHALL PROVIDE NON-REFUNDABLE ACCOUNT INITIATION FEE, A REFUNDABLE SECURITY DEPOSIT FOR THE METER APPARATUS AND PAY ALL COST FOR WATER USED.
13. ALL AS-BUILT MEASUREMENTS & ELEVATIONS ARE TO BE MADE BY A LICENSED LAND SURVEYOR.

CITY OF WINTER GARDEN - WASTEWATER SYSTEM NOTES:

1. SANITARY SEWER MAINS AND SERVICES SHALL BE PVC SDR-26 (MINIMUM). FITTINGS SHALL BE SDR-26. DUCTILE IRON IS NOT APPROVED FOR SANITARY SEWERS.
2. ALL SERVICES SHALL BE 6" (MINIMUM) DIAMETER AND TERMINATE AT THE PROPERTY LINE WITH 6" CLEAN OUT. (36" TO 48" DEEP AT LOT LINE)
3. MAGNETIC TAPE MUST BE PLACED 2' ABOVE THE TOP OF PIPE FOR THE ENTIRE LENGTH OF ALL MAINS AND SERVICES.
4. ALL SANITARY MANHOLES SHALL BE PAINTED INSIDE AND OUT WITH "BITUMASTIC SUPER SERVICE BLACK", BY KOPPERS OR APPROVED EQUAL. MANHOLES RECEIVING FLOW FROM FORCE MAINS SHALL BE LINED WITH FIBERGLASS, HDPE OR EPOXY AT THE PRECASTERS FACILITY.
5. ALL PIPE CONNECTIONS TO PRE-CAST MANHOLES SHALL BE MADE USING A FLEXIBLE EPDM RUBBER BOOT AND STAINLESS STEEL STRAP OR CAST IN BOOT BY A-LOK, Z-LOK OR EQUAL.
6. CONNECTIONS MADE TO EXISTING MANHOLES SHALL BE CORE BORED WITH A MINIMUM 6" BORE AND CONNECTION SEALED WITH FLEXIBLE BOOT AND STAINLESS STEEL CLAMP.
7. DEAD END MANHOLES SHALL HAVE A MINIMUM OF 5 FEET OF COVER FROM FINISHED GRADE TO OUTLET PIPE INVERT.
8. ALL PRECAST SEWER MANHOLES SHALL HAVE A 4 FOOT MINIMUM HIGH BARREL. CONE SECTIONS SHALL BE 3 FOOT MAXIMUM. CONCRETE DONUTS FOR EXTENDING ARE ACCEPTABLE TO RAISE MANHOLES UP TO 1 FOOT MAXIMUM.
9. THE CONTRACTOR SHALL PROVIDE AND INSTALL BALLCENTRIC PLUG VALVES IN FORCE MAINS AT 1000 FOOT MAXIMUM SPACING BETWEEN VALVES. VALVES SHALL BE LOCATED AT ALL TEES AND CROSSES.
10. THE CONTRACTOR SHALL CUT A "S" INTO CONCRETE CURB LOCATED INSIDE OF A PAINTED GREEN SQUARE BOX, IN FRONT OF EACH SERVICE LOCATION.
11. THE CONTRACTOR SHALL PROVIDE TV INSPECTION OF ALL SANITARY SEWER MAINS AFTER SYSTEM IS COMPLETED, THOROUGHLY CLEANED, DRAINED AND FULLY VISIBLE. TV INSPECTION SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATIONS. FAULTY INSPECTION DUE TO POOR CONDITIONS WILL REQUIRE REINSPECTION BY CONTRACTOR.
12. THE CONTRACTOR SHALL PROVIDE A (WARRANTY) TV INSPECTION AT THE TWO YEAR IN SERVICE MILESTONE FOR EACH SYSTEM.
13. THE CONTRACTOR SHALL PROVIDE SANITARY SEWER TESTING, EXFILTRATION OR AIR, AS REQUIRED BY DESIGN ENGINEER AND SUBMIT CERTIFIED RESULTS TO THE CITY ENGINEER.
14. GRAVITY SEWERS DEPTHS SHALL NOT EXCEED 18 FEET.
15. THE DESIGN ENGINEER SHALL PROVIDE A MINIMUM OF ONE FOOT OF FREEBOARD BETWEEN THE LOWEST FINISHED FLOOR ELEVATION AND THE TOP ELEVATION OF THE WET WELL.
16. ALL PENETRATIONS INTO CONCRETE STRUCTURES SHALL BE PRE-CAST OR CORE-DRILLED.
17. WARRANTY – ALL MATERIALS & EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR SHALL BE WARRANTED FOR A PERIOD OF TWO YEARS FROM THE DATE OF FINAL ACCEPTANCE THEREOF AGAINST DEFECTIVE MATERIALS, DESIGN, AND WORKMANSHIP. UPON RECEIPT OF NOTICE FROM THE CITY OF FAILURE OF ANY PART OF THE WARRANTED EQUIPMENT OR MATERIALS DURING THE WARRANTY PERIOD, THE AFFECTED PART, PARTS, OR MATERIALS SHALL BE PROMPTLY REPLACED BY THE CONTRACTOR WITH NEW PARTS OR MATERIALS AT NO EXPENSE TO THE CITY. IN THE EVENT THE CONTRACTOR FAILS TO MAKE THE NECESSARY REPLACEMENT OR REPAIRS IMMEDIATELY AFTER NOTIFICATION, THE CITY MAY ACCOMPLISH THE WORK AT THE EXPENSE OF THE CONTRACTOR.

CLOSED CIRCUIT TELEVISION (CCTV) INSPECTION OF SEWER LINES

GENERAL:

1. ALL NEW SANITARY SEWER LINES, PRIVATE OR CITY MAINTAINED, IN THE CITY OF WINTER GARDEN'S SERVICE AREA SHALL BE INSPECTED BY CLOSED CIRCUIT TV INSPECTION BY THE CONTRACTOR WITH A CITY INSPECTOR PRESENT PRIOR TO BEING ACCEPTED BY THE CITY.

REQUIREMENTS PRIOR TO INSPECTION RELEASE:

1. ALL ELEMENTS OF THE SEWER SYSTEM MUST BE INSTALLED AND BE COMPLETELY FINISHED, INCLUDING MAIN SEWER LINES, LATERALS, CLEAN OUTS, AND MANHOLES PRIOR TO CCTV INSPECTION.
2. ALL SEWER LINES SHALL BE COMPLETELY CLEANED OF ALL DEBRIS, SAND, WATER, ETC. PRIOR TO THE CCTV INSPECTION. ANY OBJECT OR MATTER THAT PREVENTS CCTV INSPECTION FROM VIEWING CONDITION OF PIPELINE IS CONSIDERED AN OBSTRUCTION REQUIRING ADDITIONAL CLEANING. WHEN CCTV VIEW IS OBSTRUCTED, INSPECTION SHALL BE TERMINATED. THE CONTRACTOR SHALL CLEAN THE SEWER SYSTEM COMPLETELY AND RESCHEDULE CCTV RE-INSPECTION WITH THE CITY.
3. A HYDRAULIC SEWER CLEANER SHALL NOT BE USED DURING THE CCTV INSPECTION. IF LINES ARE FOUND TO BE OBSCURED BY WATER OR DEBRIS DURING THE CCTV INSPECTION, THE INSPECTION SHALL BE TERMINATED AND RESCHEDULED TO A TIME WHEN SEWER CLEANING IS COMPLETE.
4. WHEN A SEWER LINE IS UNDER A PAVED AREA, THE AREA SHALL BE COMPACTED AND PRIMED BEFORE THE SYSTEM SHALL BE RELEASED FOR TV INSPECTION.

TELEVISION EQUIPMENT MINIMUM REQUIREMENTS:

1. THE CLOSED CIRCUIT TV CAMERA SHALL PRODUCE A CLEAR COLOR PICTURE ON THE MONITOR AND ON THE DVD RECORDING. THE CAMERA SHALL BE ABLE TO SHOW DETAIL TO THE POINT THAT ALL JOINTS AND ANY DEFECTS MAY BE READILY SEEN AT THE TIME OF THE INSPECTION. THE CAMERA SHALL STOP AND PAN AT EACH JOINT FOR COMPLETE 360 DEGREE INSPECTION.
2. REFER TO APPENDIX B OF THE REFERENCED STANDARDS FOR SPECIFICATION OF CLOSED CIRCUIT TELEVISION INSPECTION EQUIPMENT.
3. THE VIDEO RECORDER SHALL PRODUCE A NO NOISE STILL PICTURE, AND PROVIDE BOTH AUDIO AND VIDEO DURING THE INSPECTION.
4. A MEASURING DEVICE, APPROVED BY THE CITY, TO CHECK THE GRADE OF THE PIPE DURING THE INSPECTION, SHALL BE REQUIRED, GAUGE DEPTH, 0" TO 2" MIN. WITH 1/2" MARKINGS.
5. AUDIO OF THE INSPECTION SHALL BE SIMULTANEOUSLY RECORDED ON DVD DISC. THE AUDIO SHALL CONSIST OF ORDINARY DESCRIPTION AND COMMENTARY. A TAPE WILL BE GIVEN TO THE INSPECTOR ON SITE AT THE END OF THE DAY.

PROCEDURE FOR TELEVISING:

1. THE CITY'S ENGINEERING INSPECTION DIVISION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS NOTICE PRIOR TO THE TIME PLANNED FOR THE TV INSPECTION TO COMMENCE. A DEFINITE TIME AND DATE WILL BE AGREED UPON BY THE CONTRACTOR AND INSPECTOR AT THAT TIME.
2. NO INSPECTION SHALL COMMENCE WITHOUT THE PRESENCE OF THE INSPECTOR, EXCEPT WHEN PRIOR ARRANGEMENTS HAVE BEEN MADE BETWEEN THE CONTRACTOR, INSPECTOR, AND THE CITY. TV INSPECTION SHALL BE PERFORMED BY THE CONTRACTOR AT THE EXPENSE OF THE CONTRACTOR.
3. ALL CCTV INSPECTIONS SHALL COMMENCE UP STREAM OF THE SYSTEM TO PREVENT FOREIGN SUBSTANCES FROM ENTERING A SECTION PREVIOUSLY TELEVISED. THE CAMERA SHALL BE STARTED FROM THE DOWNSTREAM MANHOLE AND PROCEED UPSTREAM IN DIRECTION OPPOSING THE NORMAL FLOW IN THE LINE. THIS PROCEDURE WILL ALLOW FOR THE VIEWING OF THE SERVICE LATERALS.
4. BEFORE THE CAMERA IS PLACED IN THE SEWER LINE, WATER WITH YELLOW OR ORANGE DYE SHALL BE PUT INTO THE UPSTREAM MANHOLE OF THE SECTION BEING TELEVISED. CAMERA WILL HAVE A GAUGE SHOWING 1/2" MARKS FROM 1/2" TO 2-1/2". THIS WILL ENABLE THE CAMERA TO DETECT ANY CHANGES IN GRADE THAT MAY BE PRESENT IN THE SYSTEM.
5. THE CCTV AND DVD RECORDER SHALL BE TURNED ON BEFORE THE CAMERA IS PLACED IN THE MANHOLE FOR INSPECTION AND SHALL NOT BE TURNED OFF UNTIL THE CAMERA IS REMOVED FROM THE MANHOLE. THE CAMERA SHALL BE MOVED THROUGH THE LINE UNDER THE CONTROL OF THE CCTV CAMERA OPERATOR. THE CAMERA SHALL BE DRAWN THROUGH THE LINE AT A RATE NOT TO EXCEED THIRTY (30) FEET PER MINUTE AND SHALL STOP AT ALL SERVICE CONNECTIONS AND PIPE JOINTS IN THE PIPELINE.
6. A DVD RECORDING SHALL BE MADE OF THE ENTIRE SYSTEM BEING TELEVISED. THIS SHALL BECOME THE PROPERTY OF THE CITY UPON COMPLETION OF THE TV INSPECTION (NOT A COPY). THE TAPE(S) SHALL BE LABELED IN SUCH A MANNER THAT STATES THE PROJECT NAME, DATE OF INSPECTION AND LINE SECTION ACCORDING TO CONSTRUCTION PLANS CONTAINED ON EACH TAPE. A WRITTEN REPORT SHALL ACCOMPANY THE DVD DISC.

HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS

PROPOSED UTILITY	POTABLE WATER		RECLAIMED WATER*		SANITARY SEWER (GRAVITY)		SANITARY SEWER (FORCEMAIN)		STORM WATER		ACCEPTABLE VARIANCES
	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.	
POTABLE WATER	–	–	3'	12"	6'	12"	6'	12"	3'	6" A 12" B	SEE GENERAL NOTES: NO. 4 & 5
RECLAIMED WATER*	3'	12"	–	–	3'	6" A 12" B	3'	12"	–	–	
SANITARY SEWER (GRAVITY)	6'	12"	3'	6" A 12" B	–	–	–	–	–	–	
SANITARY SEWER (FORCEMAIN)	6'	12"	3'	12"	–	–	–	–	–	–	

GENERAL NOTES:

1. THE TABLE REPRESENTS THE MINIMUM SEPARATION REQUIREMENTS AS DESCRIBED IN F.D.E.P. RULES OF THE FLORIDA ADMINISTRATION CODE (F.A.C.). THESE SEPARATION REQUIREMENTS SHALL APPLY BETWEEN NEWLY PROPOSED UTILITY LINES AND EXISTING OR PROPOSED UTILITY LINES AND EXISTING OR PROPOSED UTILITY LINES.

*2. FOR THE PURPOSE OF THIS TABLE, RECLAIMED WATER SHALL MEAN UNRESTRICTED PUBLIC ACCESS REUSE WATER AS DEFINED BY F.A.C. 162-610, CHAPTER III. OTHER TYPES OF RECLAIMED WATER ARE CONSIDERED RAW SEWAGE AND SEPARATIONS LISTED FOR SANITARY SEWER SHALL APPLY.

3. ALL SEPARATION DISTANCES ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE UNLESS OTHERWISE SPECIFIED. CRITERION PRODUCING GREATER CLEARANCE SHALL BE USED.
   A. DENOTES POTABLE WATER ABOVE RECLAIMED WATER, SANITARY SEWER OR STORM WATER; OR RECLAIMED WATER ABOVE SANITARY SEWER.
   B. DENOTES POTABLE WATER BELOW RECLAIMED WATER, SANITARY SEWER OR STORM WATER; OR RECLAIMED WATER BELOW SANITARY SEWER.
4. UTILITY SEPARATION – VERTICAL CLEARANCE MITIGATION
   A. WHERE WATER AND GRAVITY SANITARY SEWER MAINS CROSS WITH LESS THAN REQUIRED VERTICAL CLEARANCE OR THE SEWER MAIN IS ABOVE THE WATER MAIN, THE SANITARY SEWER WILL BE 20 FEET OF EITHER:
      A.1. DUCTILE IRON PIPE, CENTERED ON THE POINT OF CROSSING, OR;
      A.2. CONCRETE ENCASED VITRIFIED CLAY, OR;
      A.3. PVC PIPE UPGRADED TO WATER MAIN STANDARDS AND PRESSURE TESTED.
   B. WHERE WATER MAINS AND STORM SEWER PIPES CROSS WITH LESS THAN REQUIRED VERTICAL CLEARANCE, THE WATER MAIN SHALL BE 20 FEET OF DUCTILE IRON PIPE CENTERED ON THE POINT OF CROSSING.
   C. SEPARATION REQUIREMENTS BETWEEN FORCE MAINS AND POTABLE WATER MAINS MUST BE MAINTAINED UNLESS APPROVED IN ADVANCE BY THE DEPARTMENT.
5. UTILITY SEPARATION – HORIZONTAL SEPARATION MITIGATION
   A. WHEN A WATER MAIN PARALLELS A GRAVITY SANITARY SEWER MAIN, A SEPARATION (MEASURED EDGE TO EDGE) OF AT LEAST SIX FEET SHOULD BE MAINTAINED. WHERE THIS SEPARATION IS NOT MET, ONE OF THE FOLLOWING MUST OCCUR.
      A.1. THE WATER MAIN IS LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 6 INCHES ABOVE THE TOP OF THE SEWER, OR;
      A.2. IF BOTH SANITARY SEWER AND POTABLE WATER MAINS ARE PROPOSED AND THE ABOVE (1.) IS NOT MET, THE SANITARY SEWER PIPES SHALL BE UPGRADED TO THE EQUIVALENT PIPE MATERIAL AS THE WATER MAIN AND PRESSURE TESTED.
      A.3. IF THE SANITARY SEWER IS EXISTING AND THE POTABLE WATER MAIN IS PROPOSED, THE WATER MAIN SHALL, AT A MINIMUM, BE UPGRADED TO DUCTILE IRON PIPE, CONSTRUCTED IN SEPARATE TRENCHES, LAID AT A HIGHER ELEVATION THAN THE SANITARY SEWER, AND UTILIZE STAGGERED JOINTS.
   B. SEPARATION REQUIREMENTS BETWEEN FORCE MAINS AND POTABLE WATER MAINS MUST BE MAINTAINED UNLESS APPROVED IN ADVANCE BY THE DEPARTMENT.
6. NO WATER PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SANITARY OR STORM WATER MANHOLE OR STRUCTURE.

CITY OF WINTER GARDEN - WATER SYSTEM NOTES:

1. THE CONTRACTOR SHALL PROVIDE AND INSTALL A CITY APPROVED BACKFLOW DEVICE ASSEMBLY AT EACH CONNECTION POINT TO THE CITY WATER SYSTEM.
2. THE CONTRACTOR SHALL HYDROSTATICALLY TEST ALL WATER MAINS AND SERVICE LATERALS AT 150 PSI FOR A TWO HOUR PERIOD. TESTING MUST BE OBSERVED BY A CITY INSPECTOR.
3. THE CONTRACTOR SHALL INSTALL WARNING TAPE OVER ALL NEW WATER MAINS. WARNING TAPE SHALL BE AS FOLLOWS: NON-DETECTABLE, SIZE 3" WITH "WATER LINE BELOW", MUST BE PLACED 8" TO 12" BELOW FINISHED GRADE ON ALL PVC WATER MAINS, LATERALS AND HEADER TEES, NUMBER 10 GAUGE TRACER WIRE SHALL BE ATTACHED TO THE TOP OF THE PIPE WITH DUCT TAPE, AT LEAST FIVE TIMES PER JOINT. THE TRACER WIRE SHALL ALSO BE ATTACHED TO ALL PVC LATERALS AND ATTACHED TO THE OUTSIDE OF EACH VALVE BOX SO THAT A PIPE LOCATOR CAN BE CONNECTED TO IT.
4. THE CONTRACTOR SHALL INSTALL WATER MAINS PER MoSS/CoWG SPECIFICATIONS. SOLVENT CEMENTED JOINTS AND THRUST BLOCKS ON PIPING SYSTEMS SHALL NOT BE ALLOWED.
5. THE CONTRACTOR SHALL INSTALL ALL WATER MAINS TO A MINIMUM DEPTH OF 36 INCHES AND A MAXIMUM DEPTH OF 42 INCHES BELOW FINAL GRADE.
6. THE CONTRACTOR SHALL INSTALL ALL SERVICE LATERALS A UNIFORM DISTANCE APART, LOCATED ON PROPERTY LOT LINE AT 90° FROM THE WATER MAIN. SERVICE LATERALS SHALL BE SEPARATELY CONNECTED TO THE WATER MAIN, NOT SPLICED TOGETHER.
7. THE CONTRACTOR SHALL CUT A "W" INTO CONCRETE CURB, LOCATED INSIDE OF A PAINTED BLUE SQUARE, LOCATED DIRECTLY IN FRONT OF EACH SERVICE LATERAL.
8. THE CONTRACTOR SHALL INSTALL CURB STOP, IN METER BOX, CURB STOP SHALL BE SET 8" BELOW FINISHED GRADE.
9. THE CONTRACTOR SHALL PROVIDE AND INSTALL IN-LINE VALVES ON WATER MAINS AT 1,000 FOOT MAXIMUM SPACING BETWEEN VALVES. VALVES SHALL BE LOCATED ON ALL TEE'S AND CROSSES. WATER MAINS SHALL BE PLACED UNDER SIDEWALKS WHERE POSSIBLE.
10. ALL WATERMAINS SHALL BE CLEANED BY PIGGING THE LINE WITH A FOAM PIG (MINIMUM OF 2 IN SERIES, 1 FLUSH). A FULL BORE FLUSH MAY BE REQUIRED AFTER PIGGING TO ENSURE THE PIPE IS CLEAN AND READY FOR SERVICE. THE CONTRACTOR SHALL COORDINATE LINE PIGGING AND FULL BORE FLUSH WITH THE CITY INSPECTOR.
11. THE CONTRACTOR SHALL DEMONSTRATE THAT LOCATION WIRE INSTALLED OVER ALL WATER MAINS IS IN WORKING CONDITION AT TIME OF ACCEPTANCE BY THE CITY.
12. ALL NEW SUBDIVISION CONSTRUCTION SHALL INSTALL DOUBLE POTABLE WATER SERVICES AT THE PROPERTY LINES.

CITY OF WINTER GARDEN - RECLAIMED WATER SYSTEM NOTES:

1. ALL PRIVATE RECLAIMED WATER SYSTEMS SHALL HAVE A CITY APPROVED BACKFLOW DEVICE ASSEMBLY AT EACH CONNECTION POINT WHEN CONNECTED TO THE CITY POTABLE WATER SYSTEM.
2. ALL MAINS AND SERVICE LATERALS SHALL BE HYDROSTATICALLY TESTED AT 150 PSI FOR A TWO HOUR PERIOD.
3. WARNING TAPE, NON-DETECTABLE, SIZE 3" WITH "REUSE WATER LINE BELOW", MUST BE PLACED 8" TO 12" BELOW FINISHED GRADE ON ALL PVC WATER MAINS, LATERALS AND HEADER TEES, NUMBER 10 GAUGE TRACER WIRE SHALL BE ATTACHED TO THE TOP OF THE PIPE WITH DUCT TAPE, AT LEAST FIVE TIMES PER JOINT. THE TRACER WIRE SHALL ALSO BE ATTACHED TO ALL PVC LATERALS AND ATTACHED TO THE OUTSIDE OF EACH VALVE BOX SO THAT A PIPE LOCATOR CAN BE CONNECTED TO IT. THE CONTRACTOR SHALL DEMONSTRATE THE LOCATE WIRE TO BE IN WORKING CONDITION AT PROJECT COMPLETION.
4. THE CONTRACTOR SHALL INSTALL RECLAIMED WATER MAINS PER MoSS/CoWG. SOLVENT CEMENTED JOINTS AND THRUST BLOCKS SHALL NOT BE ALLOWED.
5. REUSE WATER MAIN SHALL BE BURIED TO A MINIMUM DEPTH OF 36" AND A MAXIMUM DEPTH 42" BELOW FINAL GRADE.
6. SERVICE LATERALS MUST BE LOCATED A UNIFORM DISTANCE APART AND ALIGNED TO PROPERTY LOT LINE AT 90° FROM THE RECLAIMED WATERMAIN.
7. CUSTOMER SERVICE LATERALS SHALL NOT BE SPLICED TOGETHER BETWEEN THE WATER MAIN AND CURB STOP.
8. THE CONTRACTOR SHALL CUT CURB A "R" INTO CONCRETE CURB LOCATED INSIDE OF A PAINTED SQUARE (PURPLE), DIRECTLY IN FRONT OF EACH SERVICE LATERAL AND VALVE.
9. THE CONTRACTOR SHALL SET DEPTH OF CURB STOP, IN METER BOX, 8" BELOW FINISHED GRADE.
10. THE CONTRACTOR SHALL INSTALL VALVE(S) IN MAIN, NO MORE THAN 1,000 FEET APART IN BETWEEN TEES AND CROSSES. VALVES SHALL BE PROVIDED AT EACH TEE OR CROSS LOCATED IN MAIN LINE.
11. RECLAIMED WATER MAINS MAY BE LOCATED UNDER SIDEWALKS. RECLAIMED MAINS LOCATED UNDER PAVEMENT SHOULD BE MINIMIZED.
12. ALL WATERMAINS SHALL BE CLEANED BY PIGGING THE LINE WITH A FOAM PIG (MINIMUM OF 2 IN SERIES, 1 FLUSH). A FULL BORE FLUSH MAY BE REQUIRED AFTER PIGGING TO ENSURE THE PIPE IS CLEAN AND READY FOR SERVICE. THE CONTRACTOR SHALL COORDINATE LINE PIGGING AND FULL BORE FLUSH WITH THE CITY INSPECTOR.
13. RECLAIMED WATERMAIN MAINS SHALL BE 8 INCH DIAMETER MINIMUM, 4 INCH IS ALLOWED ON DEAD END RUNS SERVING LESS THAN 20 HOMES. THE DESIGN ENGINEER SHALL SUBMIT HYDRAULIC CALCULATIONS THAT DEMONSTRATE THE PROPOSED SYSTEM WILL PROVIDE REQUIRED FLOWS AND MAINTAIN SYSTEM ABOVE MINIMUM PRESSURE. PEAK IRRIGATION RATE SHALL BE SIX(6) TIMES GREATER THAN THE AVERAGE IRRIGATION RATE OF FLOW.
14. RECLAIMED WATER SYSTEM COMPONENTS INCLUDING PIPE, VALVE BOX TOPS AND METER BOX TOPS SHALL BE RECLAIMED PURPLE IN COLOR.

CITY OF WINTER GARDEN - TRUST RESTRAINT TABLE

RESTRAINED FORCE MAIN PIPE TABLE

MINIMUM LENGTH(FT) TO BE RESTRAINED ON EACH SIDE OF FITTING(S)

	PIPE SIZE								
	6"	8"	10"	12"	16"	20"	24"	30"	36"
90° BEND	19	25	30	34	44	52	60	70	80
45° BEND	8	10	12	14	18	21	25	30	34
22-1/2° BEND	4	5	6	7	9	10	12	14	16
11-1/4° BEND	2	3	4	5	6	7	8	9	10
PLUG, DEAD END OR BRANCH OF TEE	40	52	63	72	93	111	130	155	178
VALVE	20	25	32	36	47	56	78	116	89

RESTRAINED WATER AND RECLAIMED PIPE TABLE

MINIMUM LENGTH(FT) TO BE RESTRAINED ON EACH SIDE OF FITTING(S)

	PIPE SIZE								
	6"	8"	10"	12"	16"	20"	24"	30"	36"
90° BEND	29	37	44	51	65	77	89	105	120
45° BEND	12	15	18	21	27	32	37	44	50
22-1/2° BEND	6	7	9	10	13	15	18	21	24
11-1/4° BEND	3	4	5	6	7	8	9	10	12
PLUG, DEAD END OR BRANCH OF TEE	59	77	93	108	138	166	194	231	265
VALVE	59	77	93	108	138	166	194	231	265

THRUST RESTRAINT NOTES:

1. THE TABLES INDICATE MINIMUM LENGTHS OF RESTRAINED JOINTS ON EACH SIDE OF FITTINGS AND CHANGES IN DIRECTION. WHERE PRACTICAL, FULL LENGTHS OF RESTRAINED PIPE SHALL BE LAID TO ACHIEVE THE REQUIRED MINIMUM RESTRAINT.
2. WHERE COMBINATIONS OF FITTINGS ARE USED, THE PIPING BETWEEN THE FITTINGS SHALL BE RESTRAINED. THE MINIMUM RESTRAINED LENGTH OF PIPE REQUIRED UPSTREAM AND DOWNSTREAM OF THE COMBINATION OF FITTINGS SHALL BE DETERMINED ON THE BASIS OF ONE EQUIVALENT FITTING (I.E., 2-45 DEGREE BENDS WILL BE CONSIDERED AS THOUGH A 90° BEND WERE LOCATED MIDWAY BETWEEN THE TWO 45° BENDS).
3. FOR PIPE THAT IS ENCASED IN POLYETHYLENE, RESTRAINED JOINTS MINIMUM LENGTHS SHALL BE INCREASED BY 50 PERCENT.
4. FOR FITTINGS OTHER THAN THOSE PRESENTED IN THE ABOVE TABLES, RESTRAINED JOINT LENGTHS SHALL BE DETERMINED IN ACCORDANCE WITH "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" BY THE DUCTILE IRON PIPE RESEARCH ASSOCIATION. RESTRAINED JOINT LENGTHS FOR A GIVEN PRESSURE RANGE SHALL BE BASED ON THE MAXIMUM PRESSURE FOR THE TEST PRESSURE RANGE, SM (SAND SILT) SOIL, 3-FEET DEPTH, LAYING CONDITION NO. 3 AND FACTOR OF SAFETY OF 1.5.
5. IN-LINE VALVES: PROVIDE MECHANICAL RESTRAINT ON EACH SIDE OF THE VALVE.
6. ALL RECLAIMED WATER PIPING SHALL BE HYDROSTATICALLY TESTED AT A PRESSURE OF 150 PSI. ALL WASTEWATER PIPING SHALL BE HYDROSTATICALLY TESTED AT A PRESSURE OF 100 PSI.

WINTER GARDEN STANDARDS INCORPORATED WITH DESIGN ENGINEERS DOCUMENTS:

THE DETAILS, NOTES AND SPECIFICATIONS SHOWN ON THIS SHEET REPRESENT THE NOTED STANDARDS OF THE CITY OF WINTER GARDEN FOR CONSTRUCTION OF PUBLIC WORKS AND UTILITY INFRASTRUCTURE. BY INCLUDING THE STANDARDS, THE DESIGN ENGINEER HAS ACKNOWLEDGED THAT THEY ARE EFFECTIVE TO THE PROJECT AND THAT DETAILS, NOTES, OR SPECIFICATIONS ARE AS PROVIDED BY THE CITY AND HAVE NOT BEEN REVISED OR MODIFIED WITHOUT WRITTEN APPROVAL FROM THE CITY ENGINEER OR UTILITY DIRECTOR.

No.	ITEM	DATE
1	Revised General Notes	4/4/14
2	Revised Water & Reuse Notes	4/4/14

REVISIONS

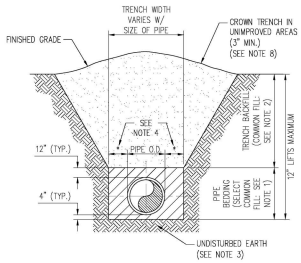
CITY OF WINTER GARDEN, FLORIDA
STANDARDS AND SPECIFICATIONS
FOR UTILITY CONSTRUCTION

WINTER GARDEN

STANDARD DETAILS
FOR
UTILITY SYSTEMS

DATE
JANUARY 2024

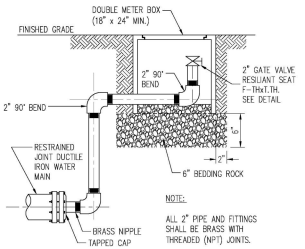
SHEET
1
1 OF 11



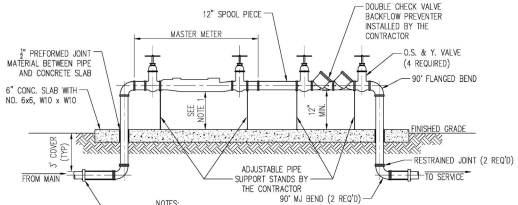
NOTES:

1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 98% OF THE MAXIMUM DENSITY AS PER AASHTO T-180 AND CONTAINING NO MORE THAN 5% PASSING #200 SIEVE.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 98% OF THE MAXIMUM DENSITY AS PER AASHTO T-180 AND CONTAINING NO MORE THAN 5% PASSING #200 SIEVE.
3. PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH TYPE A BEDDING AND TRENCHING MAY BE REQUIRED AS DIRECTED BY THE CITY OF WINTER GARDEN.
4. (*): 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 24" LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. REFER TO SECTION 32.5 OF THE CITY OF WINTER GARDEN MANUAL OF STANDARDS AND SPECIFICATIONS FOR WASTEWATER AND WATER MAIN CONSTRUCTION FOR SHEETING AND BRACING IN EXCAVATIONS.
8. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN CITY OF WINTER GARDEN RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.

1 STANDARD BEDDING DETAIL
N.T.S.



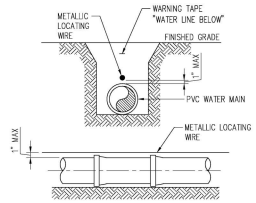
4 BLOWOFF VALVE DETAIL
N.T.S.



NOTES:

1. THE CONTRACTOR SHALL CONTACT THE INSPECTOR FOR EXACT ASSEMBLY LENGTH AND HEIGHT ABOVE THE SLAB REQUIRED FOR THE FIRE LINE MASTER METER TO BE INSTALLED. ALL WIRE, FITTINGS AND APPURTENANCES SHALL BE INSTALLED BY THE CONTRACTOR.
2. ALL PIPE LARGER THAN 2 INCH SHALL BE FLANGED DUCTILE IRON PIPE.
3. SENSUS METER REQUIRED.
4. 2" BYPASS METER SHALL BE CONSTRUCTED ON ALL MASTER METER ASSEMBLIES THREE INCHES AND LARGER.

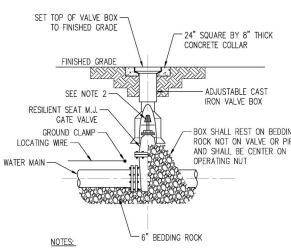
9 MASTER METER ASSEMBLY
N.T.S.



NOTES:

1. PVC PIPE SHALL REQUIRE INSULATED METALLIC LOCATING WIRE (10 GAUGE COPPER) CAPABLE OF DETECTION BY A CABLE LOCATOR AND SHALL BE ATTACHED TO THE TOP OF PIPE WITH DUCT TAPE, AT LEAST 5 TIMES PER JOINT.
2. LOCATING ROD SHALL TERMINATE AT THE TOP OF EACH VALVE BOX AND BE CAPABLE OF EXTENDING ABOVE TOP OF BOX 1" SO AS NOT TO INTERFERE WITH VALVE OPERATION.

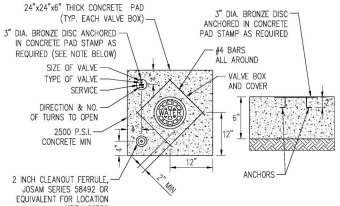
2 PVC PIPE LOCATING WIRE DETAIL
N.T.S.



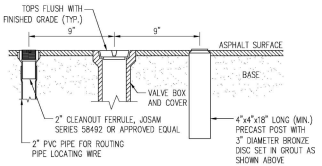
NOTES:

1. PVC EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION.
2. THE ACTUATING NUT FOR DEEPER VALVES SHALL BE EXTENDED TO COME UP TO 4 FOOT DEPTH BELOW FINISHED GRADE.

3 GATE VALVE & BOX DETAIL
N.T.S.



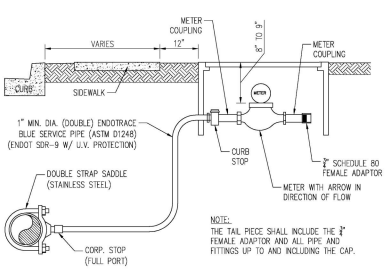
UNIMPROVED CONDITION



IMPROVED CONDITION

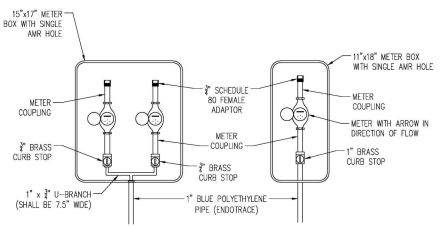
NOTE:
BRONZE IDENTIFICATION DISC SHALL BE REQUIRED FOR ALL VALVES.

7 VALVE BOX COLLAR
N.T.S.



NOTE:
THE TAIL PIECE SHALL INCLUDE THE 2" FEMALE ADAPTOR AND ALL PIPE AND FITTINGS UP TO AND INCLUDING THE CAP.

SERVICE SECTION
N.T.S.



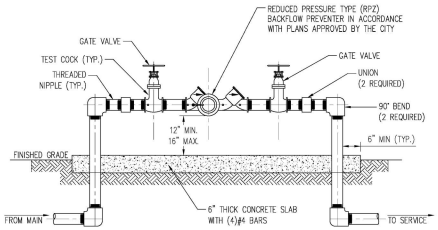
DOUBLE SERVICE (TOP VIEW)
N.T.S.

SINGLE SERVICE (TOP VIEW)
N.T.S.

NOTES:

1. ALL FITTINGS BETWEEN THE WATER MAIN AND THE METER COUPLING SHALL BE BRASS WITH COMPRESSION/PACK JOINT CONNECTIONS.
2. NO SERVICE LINE SHALL TERMINATE UNDER A DRIVEWAY.
3. EACH SERVICE SHALL TERMINATE IN A METER BOX ASSEMBLY, WHICH SHALL BE PLACED TO GRADE IN THE UTILITY EASEMENT AT THE PROPERTY LINE(S) OF THE LOT(S) TO BE SERVED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION TO AND INCLUDING THE METER BOX ASSEMBLY. THE CITY SHALL FURNISH THE METER AND THE TAIL PIECE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING THE METER BOX ASSEMBLY TO FINISH GRADE AND MAKING ANY GRADE ADJUSTMENTS TO THE METER BOX IF REGRADING OCCURS.
5. ALL SERVICE LINES SHALL BE POLY ENDOTRACE PIPE AND SHALL BE BLUE IN COLOR W/WIRE.
6. THE POINT OF CONNECTION IS LOCATED ONE FOOT BEYOND THE METER BOX. THE PLUMBER/CUSTOMER SHALL BE RESPONSIBLE FOR MAINTENANCE BEYOND THE POINT OF CONNECTION.
7. IN NO CASE IS METER TO BE INSTALLED IN SIDEWALK OR OTHER PAVED AREAS.

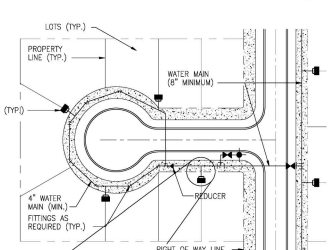
8 WATER SERVICE DETAIL
N.T.S.



NOTES:

1. ALL PIPE AND FITTINGS 2" AND SMALLER SHALL BE THREADED SCHEDULE 80 PVC. NO GALVANIZED PIPE WILL BE APPROVED.
2. ALL PIPE LARGER THAN 2" SHALL BE FLANGED DUCTILE IRON PIPE.
3. NO GALVANIZED PIPE ALLOWED.

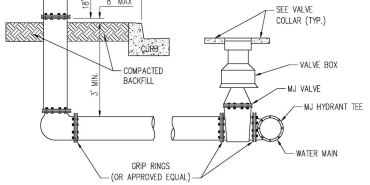
12 BACKFLOW PREVENTER ASSEMBLY
N.T.S.



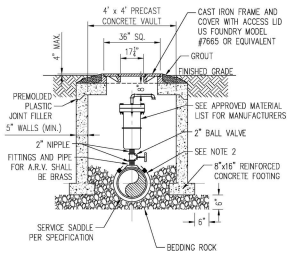
NOTES:

1. ANCHORING TYPE 90° BEND SHALL ONLY BE USED WHERE RIGHT-OF-WAY CONSTRICTIONS WILL NOT ALLOW INSTALLATION OF A STRAIGHT ASSEMBLY.
2. METER BOX TO BE INSTALLED BY THE CONTRACTOR.

CUL-DE-SAC LOOPING AND METER BOX PLACEMENT DETAIL
5
N.T.S.



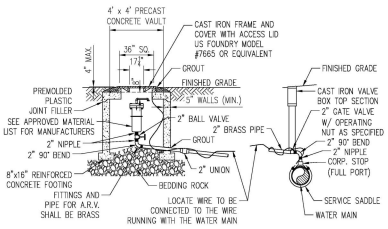
6 FIRE HYDRANT ASSEMBLY
N.T.S.



NOTES:

1. THE MINIMUM DIMENSION FROM TOP OF PIPE TO FINISHED GRADE SHALL BE 3.0 FEET.
2. DOUBLE STRAP SADDLE AND WRAP WITH TWO LAYERS OF WIDE PLASTIC OR POLY TAPE WITH STAINLESS STEEL STRAP.
3. PIPE INSTALLATION SHALL BE SUCH THAT THE A.R.V. IS LOCATED AT THE HIGHEST POINT IN THE RESPECTIVE SEGMENT.
4. INTERIOR AND EXTERIOR CONCRETE SURFACES SHALL RECEIVE PROTECTIVE COATING AS SPECIFIED FOR VALVE VAULTS.
5. CAST IRON FRAME, COVER AND ACCESS LID SHALL BE INSTALLED FLUSH WITH FINISHED GRADE.
6. COVER SHALL READ "WINTER GARDEN UTILITIES DIVISION AND "POTABLE WATER".
7. NO GALVANIZED PIPE/VALVES.

10 AIR RELEASE VALVE & VAULT
N.T.S.



NOTES:

1. THE MINIMUM DIMENSION FROM TOP OF PIPE TO FINISHED GRADE SHALL BE 4.0 FEET.
2. DOUBLE STRAP SADDLE AND WRAP WITH TWO LAYERS OF WIDE PLASTIC OR POLY TAPE WITH STAINLESS STEEL STRAP.
3. PIPE INSTALLATION SHALL BE SUCH THAT THE A.R.V. IS LOCATED AT THE HIGHEST POINT IN THE RESPECTIVE SEGMENT.
4. INTERIOR AND EXTERIOR CONCRETE SURFACES SHALL RECEIVE PROTECTIVE COATING AS SPECIFIED FOR VALVE VAULTS.
5. CAST IRON FRAME, COVER AND ACCESS LID SHALL BE INSTALLED FLUSH WITH FINISHED GRADE.
6. COVER SHALL READ "WINTER GARDEN UTILITIES DIVISION, "SEWER" "RECLAIMED WATER OR POTABLE WATER".
7. NO GALVANIZED PIPE/VALVES.
8. LOCATE WIRE IN THE ARV VAULT SHALL BE SPLICED TO THE WIRE RUNNING WITH THE WATER MAIN AND EXCESS WIRE TO BE PLACED IN ARV VAULT. THE POINT OF CONNECTION AT THE MAIN SHALL HAVE A WATER PROOF CONNECTOR.

11 OFFSET AIR RELEASE VALVE ASSEMBLY
N.T.S.

WINTER GARDEN STANDARDS INCORPORATED WITH DESIGN ENGINEERS DOCUMENTS:

THE DETAILS, NOTES AND SPECIFICATIONS SHOWN ON THIS SHEET REPRESENT THE NOTED STANDARDS OF THE CITY OF WINTER GARDEN FOR CONSTRUCTION OF PUBLIC WORKS AND UTILITY INFRASTRUCTURE. BY INCLUDING THE STANDARDS, THE DESIGN ENGINEER HAS ACKNOWLEDGED THAT THEY ARE EFFECTIVE TO THE PROJECT AND THAT DETAILS, NOTES, OR SPECIFICATIONS ARE AS PROVIDED BY THE CITY AND HAVE NOT BEEN REVISED OR MODIFIED WITHOUT WRITTEN APPROVAL FROM THE CITY ENGINEER OR UTILITY DIRECTOR.

No.	ITEM	DATE
1	Water Service	4/4/14
2	ARV Detail	4/4/14
3	Service Detail Update	1/24

REVISIONS

CITY OF WINTER GARDEN, FLORIDA
STANDARDS AND SPECIFICATIONS
FOR UTILITY CONSTRUCTION

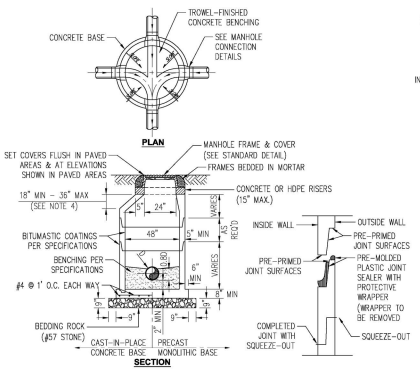
WINTER GARDEN

STANDARD DETAILS
FOR
POTABLE WATER SYSTEMS

DATE
JANUARY 2024

SHEET
2

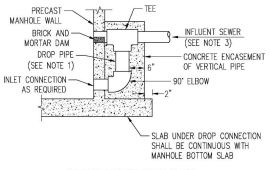
2 OF 11



NOTES:

1. DROP CONNECTIONS ARE REQUIRED WHENEVER INVERT OF INFLUENT SEWER IS 24" OR MORE ABOVE THE INVERT OF THE MANHOLE. SEE MANHOLE CONNECTION DETAILS. ALL DROPS TO BE OUTSIDE OF THE MANHOLE.
2. E-Z RAPP OUTSIDE ALL JOINTS
3. GROUT WITH NON-SHRINKING GROUT INSIDE JOINTS
4. NO CONES OVER 3 FT. TALL
5. ALL PRECAST CONCRETE SHALL BE COATED INSIDE AND OUTSIDE WITH COAL TAR EPOXY, MINIMUM 16 MIL DMT.

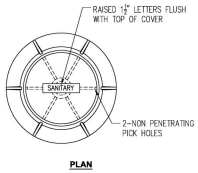
1 PRECAST CONCRETE SANITARY MANHOLE
N.T.S.



NOTES:

1. DROP PIPE AND FITTINGS SHALL BE OF EQUAL SIZE AND MATERIAL AS THE INFLUENT SEWER.
2. AN OUTSIDE DROP CONNECTION SHALL BE REQUIRED FOR ALL INFLUENT WHICH HAVE AN INVERT 2' OR MORE ABOVE THEN MANHOLE INVERT.

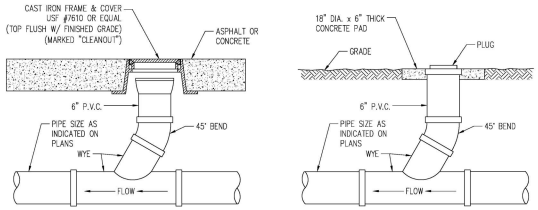
2 MANHOLE CONNECTION DETAIL
N.T.S.



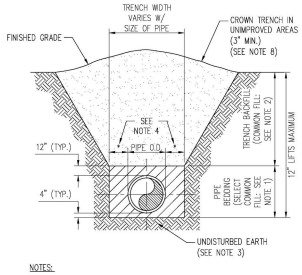
NOTES:

1. MANHOLE FRAME & COVER SHALL BE 24" OPENINGS, USE #AS-225 AS MANUFACTURED BY U.S. FOUNDRY & MFG. CORP. OR COMPOSITE ACCESS PRODUCTS H-25 PRODUCT.
2. RAIN STOPPER LDS OR RAIN GUARD LDS (LFWS) REQUIRED.

3 MANHOLE FRAME AND COVER
N.T.S.



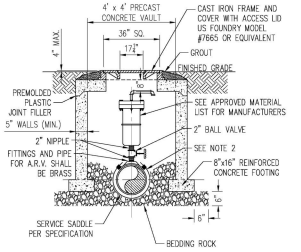
6 SANITARY SEWER CLEAN OUT DETAIL
N.T.S.



NOTES:

1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 98% OF THE MAXIMUM DENSITY AS PER AASHTO T-180 AND CONTAINING NO MORE THAN 5% PASSING #200 SIEVE.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 98% OF THE MAXIMUM DENSITY AS PER AASHTO T-180 AND CONTAINING NO MORE THAN 5% PASSING #200 SIEVE.
3. PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH TYPE A BEDDING AND TRENCHING MAY BE REQUIRED AS DIRECTED BY THE CITY OF WINTER GARDEN.
4. (*): 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 24" LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. REFER TO SECTION 32.5 OF THE CITY OF WINTER GARDEN MANUAL OF STANDARDS AND SPECIFICATIONS FOR WASTEWATER AND WATER MAIN CONSTRUCTION FOR SHEETING AND BRACING IN EXCAVATIONS.
8. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN CITY OF WINTER GARDEN RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.

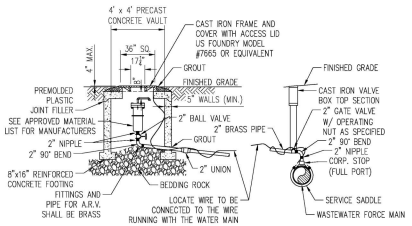
4 STANDARD BEDDING DETAIL
N.T.S.



NOTES:

1. THE MINIMUM DIMENSION FROM TOP OF PIPE TO FINISHED GRADE SHALL BE 3.0 FEET.
2. DOUBLE STRAP SADDLE AND WRAP WITH TWO LAYERS OF WIDE PLASTIC OR POLY TAPE WITH STAINLESS STEEL STRAP.
3. PIPE INSTALLATION SHALL BE SUCH THAT THE A.R.V. IS LOCATED AT THE HIGHEST POINT IN THE RESPECTIVE SEGMENT.
4. INTERIOR AND EXTERIOR CONCRETE SURFACES SHALL RECEIVE PROTECTIVE COATING AS SPECIFIED FOR VALVE VAULTS.
5. CAST IRON FRAME, COVER AND ACCESS LID SHALL BE INSTALLED FLUSH WITH FINISHED GRADE.
6. COVER SHALL READ "WINTER GARDEN UTILITIES DIVISION AND "WASTEWATER".
7. NO GALVANIZED PIPE/VALVES.

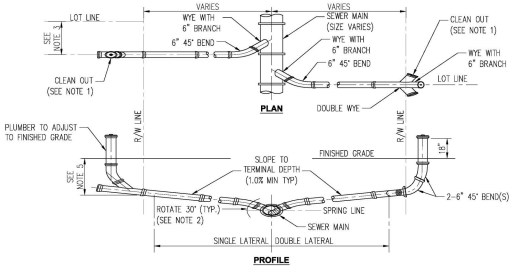
5 AIR RELEASE VALVE & VAULT
N.T.S.



NOTES:

1. THE MINIMUM DIMENSION FROM TOP OF PIPE TO FINISHED GRADE SHALL BE 4.0 FEET.
2. DOUBLE STRAP SADDLE AND WRAP WITH TWO LAYERS OF WIDE PLASTIC OR POLY TAPE WITH STAINLESS STEEL STRAP.
3. PIPE INSTALLATION SHALL BE SUCH THAT THE A.R.V. IS LOCATED AT THE HIGHEST POINT IN THE RESPECTIVE SEGMENT.
4. INTERIOR AND EXTERIOR CONCRETE SURFACES SHALL RECEIVE PROTECTIVE COATING AS SPECIFIED FOR VALVE VAULTS.
5. CAST IRON FRAME, COVER AND ACCESS LID SHALL BE INSTALLED FLUSH WITH FINISHED GRADE.
6. COVER SHALL READ "WINTER GARDEN UTILITIES DIVISION, "SEWER" "RECLAIMED WATER OR POTABLE WATER".
7. NO GALVANIZED PIPE/VALVES.
8. LOCATE WIRE IN THE ARV VAULT SHALL BE SPLICED TO THE WIRE RUNNING WITH THE MAIN AND EXCESS WIRE TO BE PLACED IN ARV VAULT. THE POINT OF CONNECTION AT THE MAIN SHALL HAVE A WATER PROOF CONNECTOR.

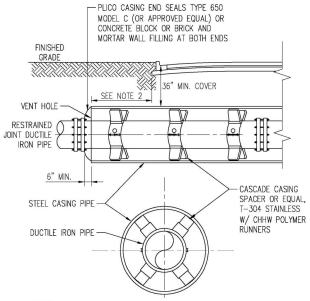
10 OFFSET AIR RELEASE VALVE ASSEMBLY
N.T.S.



NOTES:

1. CLEANOUT SHALL BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH STANDARD PLUMBING CODE.
2. INVERT OF SERVICE LATERAL SHALL NOT ENTER SEWER MAIN BELOW SPRING LINE.
3. WYES AND 45° BENDS SHALL BE PVC (SDR 26).
4. LOCATE SINGLE LATERAL AS CLOSE TO LOT LINE AS POSSIBLE, 25' MAXIMUM.
5. 4' TYP TERMINAL DEPTH (3' MIN) REQUIRED FOR SERVICE AT RIGHT-OF-WAY.

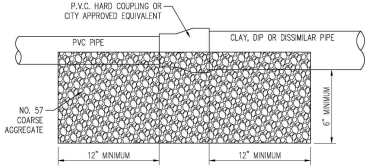
7 SANITARY SEWER SERVICE LATERAL DETAIL
N.T.S.



NOTES:

1. WHERE PRACTICAL, CASING SHALL EXTEND 8' BEYOND EDGE OF PAYMENT AND SHALL NOT BE LESS THAN 6' BEYOND EDGE OF PAYMENT IN ANY CASE.
2. CASING SPACERS AND END SEALS TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
3. DESIGN ENGINEER TO DETERMINE NEED FOR SACRIFICIAL ANODE (S) FOR CORROSION CONTROL.

8 SEWER MAIN STEEL CASING DETAIL
N.T.S.



NOTE:

1. FIELD VERIFY MATERIALS OF EXISTING PIPES TO SELECT PROPER CONNECTOR.
2. HARBCO COUPLING OR APPROVED EQUIVALENT FOR ALL PIPE MATERIALS, UNLESS APPROVED IN WRITING BY THE CITY.

9 SEWER MAIN CONNECTION DETAIL
N.T.S.

WINTER GARDEN STANDARDS INCORPORATED WITH DESIGN ENGINEERS DOCUMENTS:

THE DETAILS, NOTES AND SPECIFICATIONS SHOWN ON THIS SHEET REPRESENT THE NOTED STANDARDS OF THE CITY OF WINTER GARDEN FOR CONSTRUCTION OF PUBLIC WORKS AND UTILITY INFRASTRUCTURE. BY INCLUDING THE STANDARDS, THE DESIGN ENGINEER HAS ACKNOWLEDGED THAT THEY ARE EFFECTIVE TO THE PROJECT AND THAT DETAILS, NOTES, OR SPECIFICATIONS ARE AS PROVIDED BY THE CITY AND HAVE NOT BEEN REVISED OR MODIFIED WITHOUT WRITTEN APPROVAL FROM THE CITY ENGINEER OR UTILITY DIRECTOR.

No.	ITEM	DATE
1	Sanitary Manhole	4/7/14
2	Offset ARV Detail	4/7/14
3	MH Ring & Cover	1/24

REVISIONS

CITY OF WINTER GARDEN, FLORIDA
STANDARDS AND SPECIFICATIONS
FOR UTILITY CONSTRUCTION

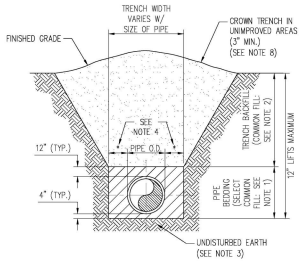
WINTER GARDEN

STANDARD DETAILS
FOR
WASTEWATER SYSTEMS

DATE
JANUARY 2024

SHEET
3

3 OF 11



NOTES:

1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 98% OF THE MAXIMUM DENSITY AS PER AASHTO T-180 AND CONTAINING NO MORE THAN 5% PASSING #200 SIEVE.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 98% OF THE MAXIMUM DENSITY AS PER AASHTO T-180 AND CONTAINING NO MORE THAN 5% PASSING #200 SIEVE.
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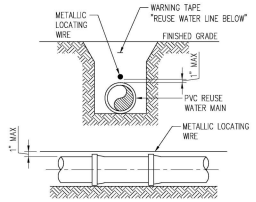
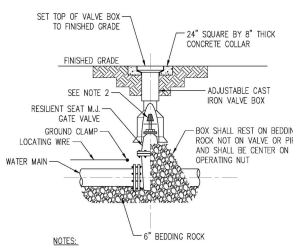
1 STANDARD BEDDING DETAIL
N.T.S.



NOTES:

1. PVC PIPE SHALL REQUIRE INSULATED METALLIC LOCATING WIRE (10 GAUGE COPPER) CAPABLE OF DETECTION BY A CABLE LOCATOR AND SHALL BE ATTACHED TO THE TOP OF PIPE WITH DUCT TAPE, AT LEAST 5 TIMES PER JOINT.
2. LOCATING ROD SHALL TERMINATE AT THE TOP OF EACH VALVE BOX AND BE CAPABLE OF EXTENDING ABOVE TOP OF BOX 1" SO AS NOT TO INTERFERE WITH VALVE OPERATION.

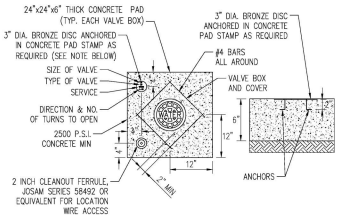
2 PVC PIPE LOCATING WIRE DETAIL
N.T.S.



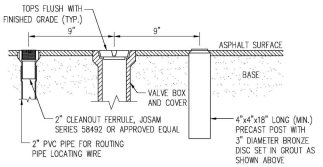
NOTES:

1. PVC EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION.
2. THE ACTUATING NUT FOR DEEPER VALVES SHALL BE EXTENDED TO COME UP TO 4 FOOT DEPTH BELOW FINISHED GRADE.

3 GATE VALVE & BOX DETAIL
N.T.S.



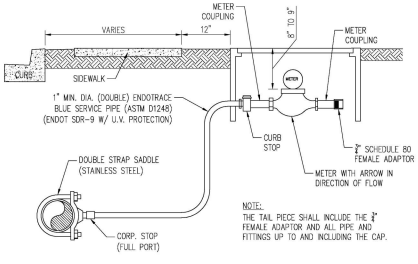
UNIMPROVED CONDITION



IMPROVED CONDITION

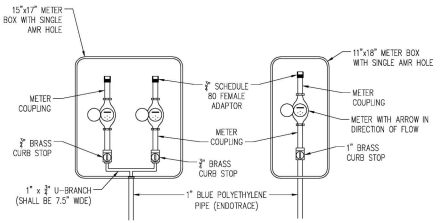
NOTE:
BRONZE IDENTIFICATION DISC SHALL BE REQUIRED FOR ALL VALVES.

4 VALVE BOX COLLAR
N.T.S.



NOTE:
THE TAIL PIECE SHALL INCLUDE THE 1" FEMALE ADAPTOR AND ALL PIPE AND FITTINGS UP TO AND INCLUDING THE CAP.

SERVICE SECTION
N.T.S.



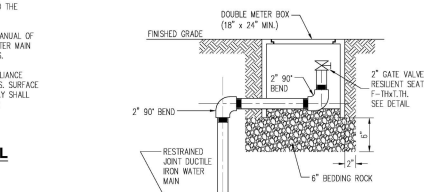
DOUBLE SERVICE (TOP VIEW)
N.T.S.

SINGLE SERVICE (TOP VIEW)
N.T.S.

NOTES:

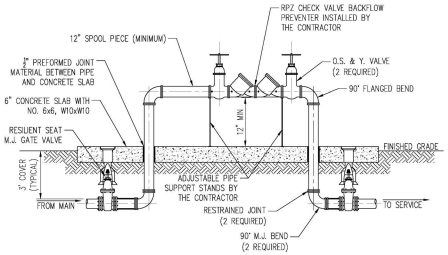
1. ALL FITTINGS BETWEEN THE WATER MAIN AND THE METER COUPLING SHALL BE BRASS WITH COMPRESSION/PACK JOINT CONNECTIONS.
2. NO SERVICE LINE SHALL TERMINATE UNDER A DRIVEWAY.
3. EACH SERVICE SHALL TERMINATE IN A METER BOX ASSEMBLY, WHICH SHALL BE PLACED TO GRADE IN THE UTILITY EASEMENT AT THE PROPERTY LINE(S) OF THE LOT(S) TO BE SERVED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION TO AND INCLUDING THE METER BOX ASSEMBLY. THE CITY SHALL FURNISH THE METER AND THE TAIL PIECE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING THE METER BOX ASSEMBLY TO FINISH GRADE AND MAKING ANY GRADE ADJUSTMENTS TO THE METER BOX IF REGRADING OCCURS.
5. ALL SERVICE LINES SHALL BE POLY ENDOTRACE PIPE AND SHALL BE BLUE IN COLOR W/WIRE.
6. THE POINT OF CONNECTION IS LOCATED ONE FOOT BEYOND THE METER BOX. THE PLUMBER/CUSTOMER SHALL BE RESPONSIBLE FOR MAINTENANCE BEYOND THE POINT OF CONNECTION.
7. IN NO CASE IS METER TO BE INSTALLED IN SIDEWALK OR OTHER PAVED AREAS.

6 WATER SERVICE DETAIL
N.T.S.



NOTE:
ALL 2" PIPE AND FITTINGS SHALL BE BRASS WITH THREADED (NPT) JOINTS.

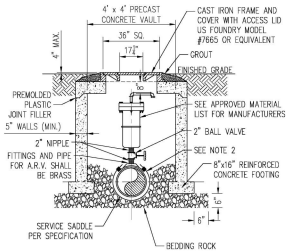
5 BLOWOFF VALVE DETAIL
N.T.S.



NOTES:

1. ALL PIPE AND FITTINGS 2" AND SMALLER SHALL BE THREADED SCHEDULE 80 PVC. NO GALVANIZED PIPE ALLOWED.
2. ALL PIPE LARGER THAN 2 INCH SHALL BE FLANGED DUCTILE IRON PIPE.
3. RECLAIMED WATER JUMPER SHALL BE SIZE ON SIZE.

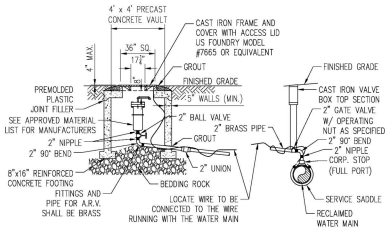
7 RECLAIMED WATER JUMPER CONNECTION
N.T.S.



NOTES:

1. THE MINIMUM DIMENSION FROM TOP OF PIPE TO FINISHED GRADE SHALL BE 3.0 FEET.
2. DOUBLE STRAP SADDLE AND WRAP WITH TWO LAYERS OF WIDE PLASTIC OR POLY TAPE WITH STAINLESS STEEL STRAP.
3. PIPE INSTALLATION SHALL BE SUCH THAT THE A.R.V. IS LOCATED AT THE HIGHEST POINT IN THE RESPECTIVE SEGMENT.
4. INTERIOR AND EXTERIOR CONCRETE SURFACES SHALL RECEIVE PROTECTIVE COATING AS SPECIFIED FOR VALVE VAULTS.
5. CAST IRON FRAME, COVER AND ACCESS LID SHALL BE INSTALLED FLUSH WITH FINISHED GRADE.
6. COVER SHALL READ "WINTER GARDEN UTILITIES DIVISION AND "RECLAIMED WATER".
7. NO GALVANIZED PIPE/VALVES.

8 AIR RELEASE VALVE & VAULT
N.T.S.



NOTES:

1. THE MINIMUM DIMENSION FROM TOP OF PIPE TO FINISHED GRADE SHALL BE 4.0 FEET.
2. DOUBLE STRAP SADDLE AND WRAP WITH TWO LAYERS OF WIDE PLASTIC OR POLY TAPE WITH STAINLESS STEEL STRAP.
3. PIPE INSTALLATION SHALL BE SUCH THAT THE A.R.V. IS LOCATED AT THE HIGHEST POINT IN THE RESPECTIVE SEGMENT.
4. INTERIOR AND EXTERIOR CONCRETE SURFACES SHALL RECEIVE PROTECTIVE COATING AS SPECIFIED FOR VALVE VAULTS.
5. CAST IRON FRAME, COVER AND ACCESS LID SHALL BE INSTALLED FLUSH WITH FINISHED GRADE.
6. COVER SHALL READ "WINTER GARDEN UTILITIES DIVISION, "SEWER" "RECLAIMED WATER OR POTABLE WATER".
7. NO GALVANIZED PIPE/VALVES.
8. LOCATE WIRE IN THE ARV VAULT SHALL BE SPLICED TO THE WIRE RUNNING WITH THE WATER MAIN AND EXCESS WIRE TO BE PLACED IN ARV VAULT. THE POINT OF CONNECTION AT THE MAIN SHALL HAVE A WATER PROOF CONNECTOR.

9 OFFSET AIR RELEASE VALVE ASSEMBLY
N.T.S.

WINTER GARDEN STANDARDS INCORPORATED WITH DESIGN ENGINEERS DOCUMENTS:

THE DETAILS, NOTES AND SPECIFICATIONS SHOWN ON THIS SHEET REPRESENT THE NOTED STANDARDS OF THE CITY OF WINTER GARDEN FOR CONSTRUCTION OF PUBLIC WORKS AND UTILITY INFRASTRUCTURE. BY INCLUDING THE STANDARDS, THE DESIGN ENGINEER HAS ACKNOWLEDGED THAT THEY ARE EFFECTIVE TO THE PROJECT AND THAT DETAILS, NOTES, OR SPECIFICATIONS ARE AS PROVIDED BY THE CITY AND HAVE NOT BEEN REVISED OR MODIFIED WITHOUT WRITTEN APPROVAL FROM THE CITY ENGINEER OR UTILITY DIRECTOR.

No.	ITEM	DATE
1	Water Meter Service	4/7/14
2	ARV Detail	4/7/14

REVISIONS

CITY OF WINTER GARDEN, FLORIDA
STANDARDS AND SPECIFICATIONS
FOR UTILITY CONSTRUCTION

WINTER GARDEN

STANDARD DETAILS
FOR
POTABLE WATER SYSTEMS

DATE
JANUARY 2024

SHEET
8
8 OF 11

GENERAL NOTES:

1. ALL NEW STORM AND SANITARY SEWER LINES IN THE CITY OF WINTER GARDEN SHALL BE SUBJECTED TO CLOSED CIRCUIT TV INSPECTION PRIOR TO BEING ACCEPTED BY THE CITY, WHETHER PRIVATE OR CITY MAINTAINED. ALL STORM SEWER PIPE SHALL BE REINSPECTED AT THE YEAR END, COST TO BE PAID BY THE OWNER.

2. PIPE MATERIAL SHALL BE AS SHOWN ON THE CONSTRUCTION PLANS UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

3. CONTRACTOR AND OWNER ARE RESPONSIBLE FOR ENSURING THAT ALL CITY, COUNTY, STATE (FDEP, FDOT, SJRWMD, ETC.), AND FEDERAL PERMITS HAVE BEEN ISSUED FOR THE PROJECT.

4. ALL STORM SYSTEM MUST BE WATER-TIGHT WITH ALL JOINTS WRAPPED.

5. STORM SYSTEM WILL BE CLEANED PRIOR TO BEING TV'D.

6. THE OWNER SHALL KEEP A COPY OF THE WATER MANAGEMENT DISTRICT PERMIT, NPDES, NOI AND SWPP PLAN IN A CONSPICUOUS LOCATION ON THE JOB SITE AT ALL TIMES.

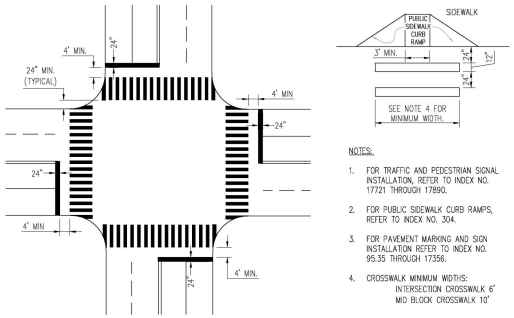
7. ALL STORM SEWER MANHOLES FRAME & COVER SHALL BE ASTM 225.

8. CLEAN SAND SHALL CONSIST OF MATERIAL HAVING LESS THAN 5% PASSING THE #200 SIEVE.

9. ONLY CONCRETE RISER RINGS WILL BE ALLOWED TO BE PLACED FOR STORM MANHOLES. ALL RISER RINGS SHALL BE SEALED TO THE STRUCTURE USING WRAPID SEAL. NO MORE THAN 15" WILL BE ALLOWED.

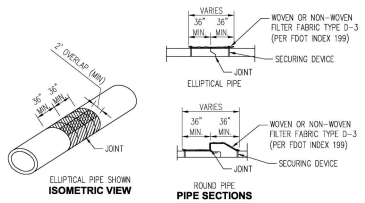
10. STORM SEWER PIPES SHALL MEET ASTM C76 & ASTM C507.

11. ALL STORM SEWER STRUCTURE SECTIONS SHALL BE SEALED WITH WRAPID SEAL.



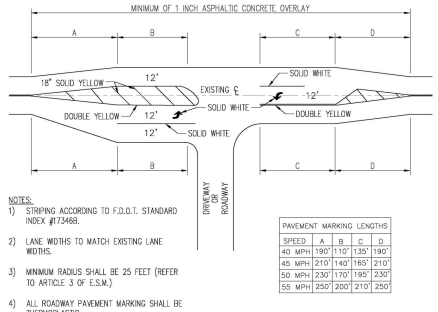
NOTES:
1. FOR TRAFFIC AND PEDESTRIAN SIGNAL INSTALLATION, REFER TO INDEX NO. 17721 THROUGH 17890.
2. FOR PUBLIC SIDEWALK CURB RAMPS, REFER TO INDEX NO. 304.
3. FOR PAVEMENT MARKING AND SIGN INSTALLATION REFER TO INDEX NO. 95.35 THROUGH 17356.
4. CROSSWALK MINIMUM WIDTHS: INTERSECTION CROSSWALK 6' MID BLOCK CROSSWALK 10'

1 TYPICAL CROSSWALK
N.T.S.



Cost of filter fabric jacket to be included in cost of pipe culverts.
FOR ALL PIPE TYPES - CONCRETE PIPE SHOWN

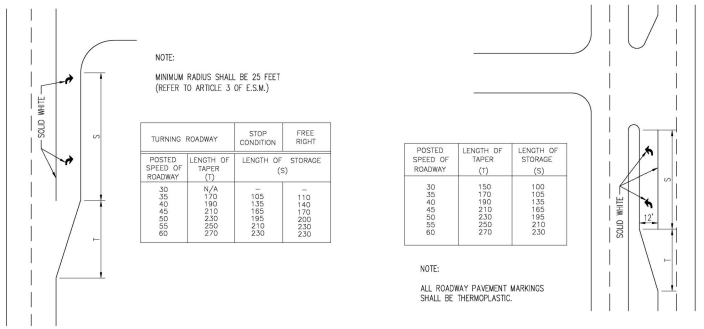
2 FILTER FABRIC JACKET
N.T.S.



NOTES:
1) STRIPING ACCORDING TO F.D.O.T. STANDARD INDEX #17346g.
2) LANE WIDTHS TO MATCH EXISTING LANE WIDTHS.
3) MINIMUM RADIUS SHALL BE 25 FEET (REFER TO ARTICLE 3 OF E.S.M.)
4) ALL ROADWAY PAVEMENT MARKING SHALL BE THERMOPLASTIC.

PAVEMENT MARKING LENGTHS				
SPEED	A	B	C	D
40 MPH	190'	110'	135'	190'
45 MPH	210'	140'	165'	210'
50 MPH	230'	170'	195'	230'
55 MPH	250'	200'	210'	250'

3 TYPICAL INTERSECTION
N.T.S.



NOTE:
MINIMUM RADIUS SHALL BE 25 FEET (REFER TO ARTICLE 3 OF E.S.M.)

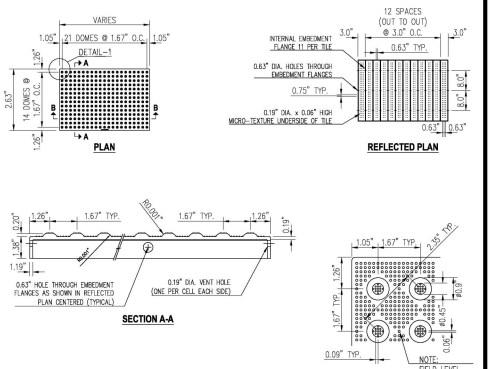
TURNING ROADWAY		STOP CONDITION	FREE RIGHT
POSTED SPEED OF ROADWAY	LENGTH OF TAPER (T)	LENGTH OF STORAGE (S)	
30	N/A	--	--
35	170	105	110
40	190	135	140
45	210	165	170
50	230	195	200
55	250	210	230
60	270	230	230

4 RIGHT TURN DECELERATION LANE
N.T.S.

POSTED SPEED OF ROADWAY	LENGTH OF TAPER (T)	LENGTH OF STORAGE (S)
30	150	100
35	170	105
40	190	135
45	210	165
50	230	195
55	250	210
60	270	230

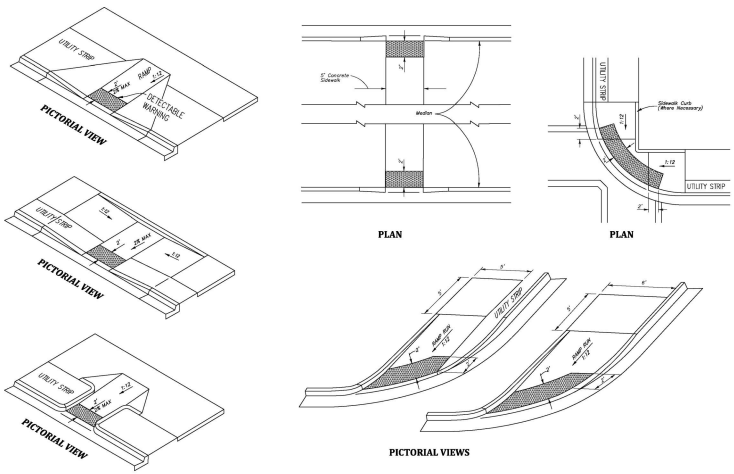
NOTE:
ALL ROADWAY PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.

5 DIVIDED HIGHWAY LEFT TURN STORAGE LANE
N.T.S.

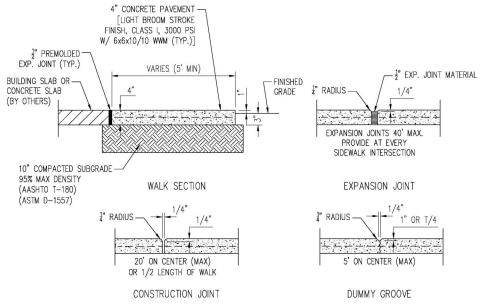


NOTE:
1. CURB RAMP DETECTABLE WARNING TILE SHALL BE ARMOR TILE OR EQUAL.
2. ALL SIDEWALK CURB RAMPS SHALL HAVE DETECTABLE WARNING SURFACES THAT EXTEND THE FULL WIDTH OF THE RAMP AND IN THE DIRECTION OF TRAVEL 24 INCHES (610 MM) FROM THE BACK OF CURB.

8 DETECTABLE WARNING DETAIL
N.T.S.



6 CURB RAMPS & DETECTABLE WARNING PLACEMENT
N.T.S.



7 SIDEWALK DETAILS
N.T.S.

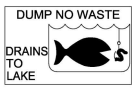


PLATE SHALL BE ADDED TO STORMWATER INLETS AS REQUIRED BY THE CITY.

WINTER GARDEN STANDARDS INCORPORATED WITH DESIGN ENGINEERS DOCUMENTS:

THE DETAILS, NOTES AND SPECIFICATIONS SHOWN ON THIS SHEET REPRESENT THE NOTED STANDARDS OF THE CITY OF WINTER GARDEN FOR CONSTRUCTION OF PUBLIC WORKS AND UTILITY INFRASTRUCTURE. BY INCLUDING THE STANDARDS, THE DESIGN ENGINEER HAS ACKNOWLEDGED THAT THEY ARE EFFECTIVE TO THE PROJECT AND THAT DETAILS, NOTES, OR SPECIFICATIONS ARE AS PROVIDED BY THE CITY AND HAVE NOT BEEN REVISED OR MODIFIED WITHOUT WRITTEN APPROVAL FROM THE CITY ENGINEER OR UTILITY DIRECTOR.

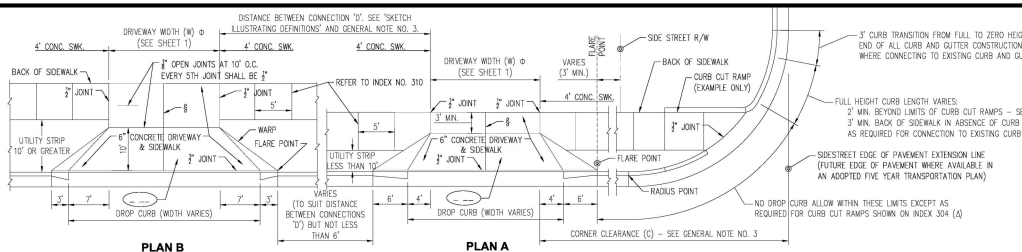
DATE
ITEM
No.
REVISIONS

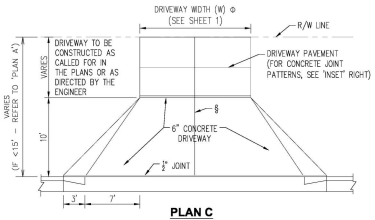
CITY OF WINTER GARDEN, FLORIDA
STANDARDS AND SPECIFICATIONS
FOR ROADWAY & DRAINAGE CONSTRUCTION

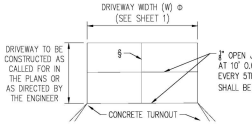
WINTER GARDEN

STANDARD DETAILS
FOR
PUBLIC SERVICES

DATE
JANUARY 2024
SHEET
9
9 OF 11







FOOTNOTES:
ALL ½" JOINTS SHALL BE CONSTRUCTED WITH PREFORMED JOINT FILLER.
§ OPEN JOINTS PLACED AT EQUAL (20' MAX.) INTERVALS FOR DRIVEWAYS OVER 20' WIDE. JOINTS IN CURB AND GUTTER TO MATCH JOINTS IN DRIVEWAYS.
Δ WHEN CONNECTING TO SIDESTREET CURB AND GUTTER SECTIONS, THE NO DROP CURB LIMITS SHOULD EXTEND BACK TO THE SIDESTREET RADIUS POINT. WITH OR WITHOUT CURB AND GUTTER, NO DRIVEWAY SHOULD ENCROACH ON THE CORNER RADIUS.
Φ DRIVEWAYS (6" CONCRETE) SHALL BE OF A UNIFORM WIDTH (W) TO THE RIGHT OF WAY LINE.
(___) ALPHA-NUMERIC IDENTIFICATION OF A FLARED DRIVEWAY TYPE SPECIFICALLY CALLED FOR IN THE PLANS, SEE SHEETS 3 AND 4.

SPECIAL NOTES FOR URBAN FLARED TURNOUTS

1. DRIVEWAY 6" CONCRETE PAVEMENT AND DROP CURB SHALL MEET THE MATERIAL AND CONSTRUCTION REQUIREMENTS OF SECTIONS 522 AND 520 RESPECTIVELY OF THE FDOT STANDARD SPECIFICATIONS. THE DRIVEWAY FOUNDATION SHALL MEET THE REQUIREMENT OF SUBARTICLE 522-4.
2. FOR DETAILS OF DROP CURB AND CURB CUT RAMPS REFER TO INDEXES NOS. 300 AND 304 RESPECTIVELY.
3. WHERE TURNOUTS ARE CONSTRUCTED WITHIN EXISTING CURB AND GUTTER, THE EXISTING CURB AND GUTTER SHALL BE REMOVED EITHER TO THE NEAREST JOINT BEYOND THE FLARE POINT OR TO THE EXTENT THAT NO REMAINING SECTION IS LESS THAN 5 FEET LONG; AND, DROP CURB CONSTRUCTED IN ACCORDANCE WITH NOTES NOS. 1 AND 2.
4. COST FOR PREFORMED JOINT FILLER SHALL BE INCLUDED IN THE COST FOR THE CONCRETE PAVEMENT (CONCRETE SIDEWALK, 6" THICK).
5. FOR TURNOUTS WITH RADIAL RETURNS SEE THE REQUIREMENTS UNDER THE "SUMMARY OF GEOMETRIC REQUIREMENTS FOR TURNOUTS", THE "GENERAL NOTES", THE DETAILS OF "RURAL TURNOUT CONSTRUCTION" AND THE DETAIL OF "LIMITS OF CLEARING & GRUBBING, STABILIZATION AND BASE AT INTERSECTIONS".
6. DEPARTMENT MAINTENANCE OF PAVEMENT SHALL EXTEND OUT TO THE RIGHT OF WAY OR 2 FEET BACK OF SIDEWALK, WHICHEVER DISTANCE IS LESS.
7. THE MAINTENANCE AND OPERATION OF HIGHWAY LIGHTING, TRAFFIC SIGNALS, ASSOCIATED EQUIPMENT, AND OTHER NECESSARY DEVICES SHALL BE THE RESPONSIBILITY OF A PUBLIC AGENCY.
8. ALL PAVEMENT MARKINGS ON THE STATE HIGHWAYS, INCLUDING ACCELERATION AND DECELERATION LANE MARKINGS, AND SIGNING INSTALLED FOR THE OPERATION OF THE STATE HIGHWAY SHALL BE MAINTAINED BY THE DEPARTMENT.
9. ALL SIGNING AND MARKING INSTALLED FOR THE OPERATION OF THE CONNECTION (SUCH AS STOP BARS AND STOP SIGNS FOR THE CONNECTION) SHALL BE THE RESPONSIBILITY OF THE PERMITTEE.
10. TURNOUTS WILL BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR SIDEWALK CONCRETE (6" THICK), SY.

DESIGN NOTES FOR URBAN FLARED TURNOUTS

1. DRIVEWAYS INDICATED AS 'ADVERSE APPLICATIONS' ARE THOSE WITH SLOPES THAT CAN CAUSE OVERHANG DRAG FOR REPRESENTATIVE STANDARD PASSENGER VEHICLES UNDER FULLY LOADED CONDITIONS; OR, THOSE WITH SLOPES THAT CAN CAUSE DRIVERS WHO ARE LEAVING THE ROADWAY TO SLOW OR PAUSE TO THE EXTENT THAT TRAFFIC DEMAND VOLUMES WILL BE IMPEDED.

DRIVEWAYS INDICATED AS 'MARGINAL APPLICATIONS' ARE THOSE WITH SLOPES THAT CAN CAUSE OVERHANG DRAG FOR REPRESENTATIVE STANDARD PASSENGER VEHICLES UNDER FULLY LOADED CONDITIONS WHEN THE DRIVEWAY IS LOCATED ON THE LOW SIDE OF FULLY SUPERELEVATED ROADWAYS.

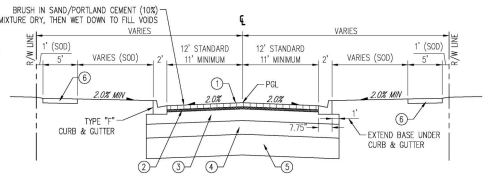
DRIVEWAYS INDICATED AS 'GENERAL APPLICATIONS' ARE THOSE WITH SLOPES THAT CAN READILY ACCOMMODATE REPRESENTATIVE STANDARD PASSENGER VEHICLES AND THOSE AND THOSE THAT CAN ACCOMMODATE REPRESENTATIVE STANDARD TRUCKS, VANS, BUSSES AND RECREATIONAL VEHICLES OPERATING UNDER NORMAL CROWN AND SUPERELEVATION CONDITIONS.

2. THE STANDARD FLARED DRIVEWAYS ON THIS INDEX MAY NOT ACCOMMODATE VEHICLES WITH LOW BEDS, LOW UNDERCARRIAGE OR LOW APPENDAGE FEATURES. WHERE SUCH VEHICLES ARE DESIGN VEHICLES DRIVEWAYS ARE TO HAVE SITE SPECIFIC FLARE DESIGNS OR CATEGORY ~~~~ DESIGNS.
3. WHEN SPECIFIC FLARE TYPE DRIVEWAYS ARE TO BE CONSTRUCTED, THE TYPE SHALL BE DESIGNATED IN THE PLANS USING THE ASSIGNED ALPHA-NUMERIC DESIGNATION.

Note: See sheet 1 for 'GENERAL NOTES'

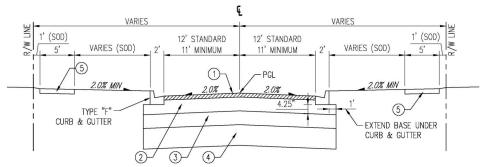
PAVEMENT DESIGN

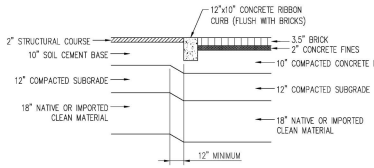
1. 3.5" BRICKS
2. 1"– 2" LOOSE CONCRETE FINES LEVELING BED
3. 10" BASE – COMPACTED CONCRETE FINES TO 98% MAX. DENSITY (AASHTO T-134). ASPHALTIC PRIME COAT APPLIED AT 0.15 GAL./SF
4. 12" COMPACTED SUBGRADE (98% DENSITY) AASHTO T-180 AND LBR 40
5. 18" OF NATIVE OR IMPORTED MATERIAL HAVING LESS THAN 5% PASSING #200 SIEVE COMPACTED TO 98% PER AASHTO T-180
6. 4" THICK CONCRETE SIDEWALK



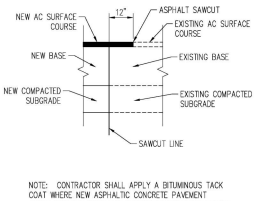
PAVEMENT DESIGN

1. 2" TYPE S-1 STRUCTURAL COURSE (2 LIFTS)
2. 10" BASE TYPE SOIL CEMENT COMPACTED TO 98% MAX. DENSITY (AASHTO T-134). ASPHALTIC PRIME COAT APPLIED AT 0.15 GAL./SF 300 PSI 7-DAY COMPRESSIVE STRENGTH
3. 12" COMPACTED SUBGRADE (98% DENSITY) AASHTO T-180 AND LBR 40
4. 18" OF NATIVE OR IMPORTED MATERIAL HAVING LESS THAN 5% PASSING #200 SIEVE COMPACTED TO 98% PER AASHTO T-180
5. 4" THICK CONCRETE SIDEWALK



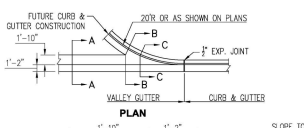


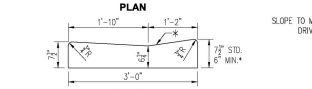
1 RIBBON CURB WITH BRICK PAVERS N.T.S.

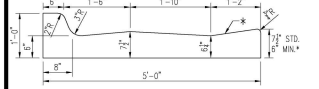


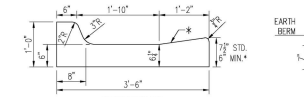
NOTE: CONTRACTOR SHALL APPLY A BITUMINOUS TACK COAT WHERE NEW ASPHALTIC CONCRETE PAVEMENT ABUTS EXISTING PORTLAND CEMENT CONCRETE PAVEMENT.

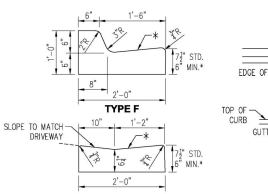
1 SAWCUT TYPCIAL DETAIL N.T.S.

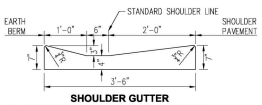








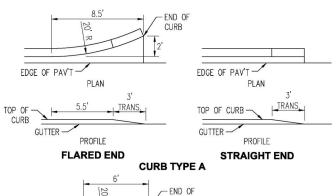




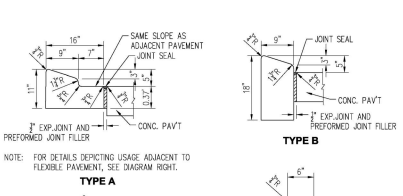
* WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP SHALL BE 6", UNLESS OTHERWISE SHOWN ON PLANS.

CONCRETE CURB AND GUTTER

NOTE: FOR USE ADJACENT TO CONCRETE OR FLEXIBLE PAVEMENT, CONCRETE SHOWN. FOR DETAILS DEPICTING USAGE ADJACENT TO FLEXIBLE PAVEMENT, SEE DIAGRAM RIGHT. EXPANSION JOINT, PREFORMED JOINT FILLER AND JOINT SEAL ARE REQUIRED BETWEEN CURB & GUTTER AND CONCRETE PAVEMENT ONLY, SEE DIAGRAM RIGHT.



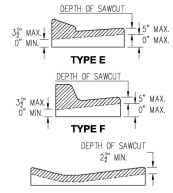
CURB AND GUTTER ENDINGS



NOTE: FOR USE ADJACENT TO CONCRETE OR FLEXIBLE PAVEMENT, CONCRETE SHOWN. EXPANSION JOINT, PREFORMED JOINT FILLER AND JOINT SEAL ARE REQUIRED BETWEEN CURBS AND CONCRETE PAVEMENT ONLY, SEE DIAGRAM RIGHT.

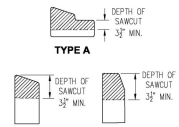
CONCRETE CURB

ASPHALTIC CONCRETE CURB

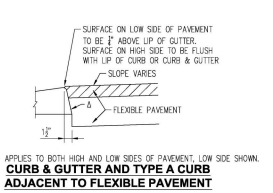


NOTE: SAWCUTS SHOULD BE AVOIDED WITHIN VALLEY GUTTER AND WITHIN CURB AND GUTTER ENDINGS.

CONTRACTION JOINT IN CURB AND GUTTER

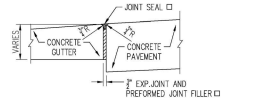


CONTRACTION JOINT IN CURB



Δ – APPLIES TO BOTH HIGH AND LOW SIDES OF PAVEMENT, LOW SIDE SHOWN.

CURB & GUTTER AND TYPE A CURB ADJACENT TO FLEXIBLE PAVEMENT



□ – APPLIES TO BOTH HIGH AND LOW SIDES OF PAVEMENT, LOW SIDE SHOWN.

EXPANSION JOINT BETWEEN GUTTER AND CONCRETE PAVEMENT

GENERAL NOTES

1. FOR CURB,GUTTER,AND CURB AND GUTTER PROVIDE ½" – 1" CONTRACTION JOINTS AT 10' CENTERS (MAX.). CONTRACTION JOINTS ADJACENT TO CONCRETE PAVEMENT ON TANGENTS AND FLAT CURVES ARE TO MATCH THE PAVEMENT JOINTS, WITH INTERMEDIATE JOINTS NOT TO EXCEED 10' CENTERS. CURB,GUTTER AND CURB & GUTTER EXPANSION JOINTS SHALL BE LOCATED IN ACCORDANCE WITH SECTION 520 OF THE STANDARD SPECIFICATIONS.
2. ENDS OF CURBS TYPES B AND D SHALL TRANSITION FROM FULL TO ZERO HEIGHTS IN 3 FEET.

No.	ITEM	DATE
1	Brick Typical Section	4/4/24

REVISIONS

CITY OF WINTER GARDEN, FLORIDA
STANDARDS AND SPECIFICATIONS
FOR ROADWAY & DRAINAGE CONSTRUCTION

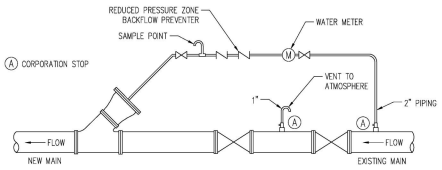
WINTER GARDEN

STANDARD DETAILS
FOR
PUBLIC SERVICES

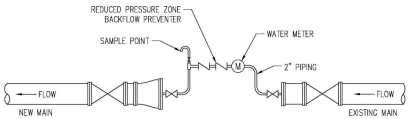
DATE
JANUARY 2024

SHEET
10

10 OF 11



OPTION "A"



OPTION "B"

EXCEPT AS INDICATED BELOW FOR SHORT LENGTHS, EACH SECTION OF PIPELINE SHALL BE THOROUGHLY CLEANED WITH ONE POLYURETHANE FOAM PIG EACH TIME.

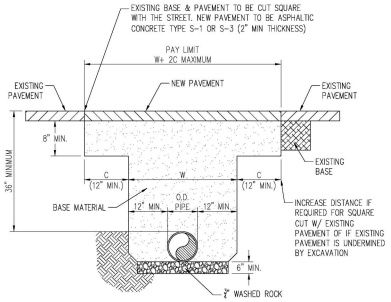
A CITY REPRESENTATIVE SHALL BE PRESENT AT THE TIME OF INSERTION AND EXIT OF THE PIGS. LINES SHALL BE PIGGED AND/OR FLUSHED UNTIL THE WATER RUNS CLEAN AND IS APPROVED BY THE CITY REPRESENTATIVE. THE CITY REPRESENTATIVE SHALL BE GIVEN 48 HOURS MINIMUM NOTICE PRIOR TO PIGGING OR FLUSHING.

ON SHORT LENGTHS OF PIPELINE (100' MAX) CLEANING MAY BE ACCOMPLISHED BY FLUSHING WITH WATER AT A MINIMUM VELOCITY OF 2.5 FEET PER SECOND. WATER REQUIRED FOR TESTING AND CLEANING SHALL BE SUPPLIED BY THE CITY AT THE CONTRACTOR'S EXPENSE. WATER SHALL BE FROM A POTABLE SOURCE SATISFACTORY TO THE CITY.

NOTES:

1. REDUCER TO BE NEW MAIN SIZE PLUS 2" LARGER.
2. WYE TO BE PLUGGED AND RESTRAINED AT THE END OF PIGGING.
3. AT THE END OF THE PROJECT, ALL CORPORATIONS TO BE REMOVED AND CORPORATION PLUGS TO BE INSTALLED.
4. SAMPLE POINT TO BE LOCATED AFTER BACKFLOW PREVENTER.
5. ALL MATERIALS, PIPE, AND FITTINGS SHALL CONFORM THE THE CITY OF WINTER GARDEN STANDARDS.
6. INSTALL REDUCER WITH PIG INSIDE. ONLY ONE PIG WILL BE ALLOWED TO BE RUN THROUGH THE MAIN AT A TIME. PIPE EXTENSION CAP MAY BE REQUIRED.
7. PIGGING PROCEDURE TO BE PERFORMED AT LEAST TWICE.

1 PIPE PIGGING DETAIL
N.T.S.

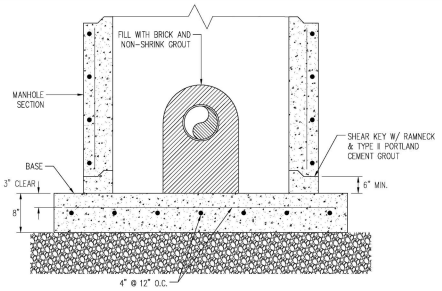


W = O.D. OF PIPE + 12" MIN. AT BOTH SIDES OF PIPE

C = VARIES W/ SOIL TYPE
(CONTACT ENGINEER OF RECORD FOR DETERMINATION IN THE FIELD)

NOTE:
ALL BACKFILL COMPACTION SHALL BE 98% OF MAXIMUM DENSITY.

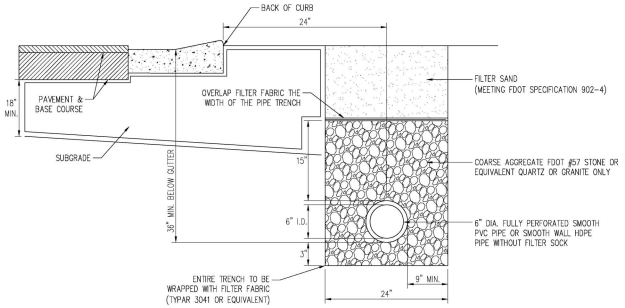
5 PAVEMENT RESTORATION DETAIL
N.T.S.



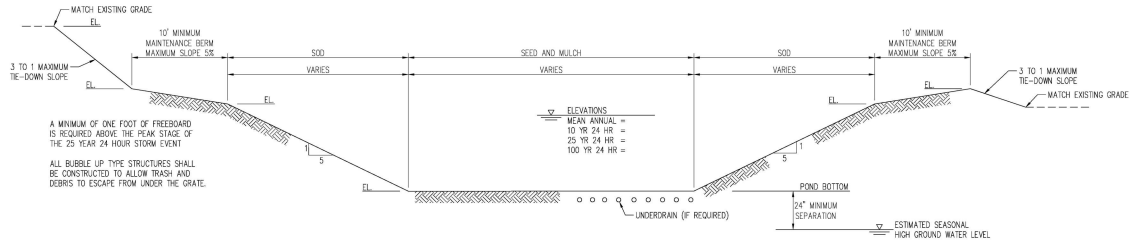
NOTES:

1. TO CONSTRUCT NEW MANHOLE OVER EXISTING SEWER, SLIDE BASE UNDER PIPE AND SET MANHOLE SECTION ON TOP.
2. FOR ADDITIONAL DETAILS NOT SHOWN, SEE "GRAVITY SEWER MANHOLE STANDARD.
3. AT THE END OF THE PROJECT, ALL CORPORATIONS TO BE REMOVED AND CORPORATION PLUGS TO BE INSTALLED. CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPORT OF EXISTING SEWER DURING INSTALLATION OF MANHOLE.

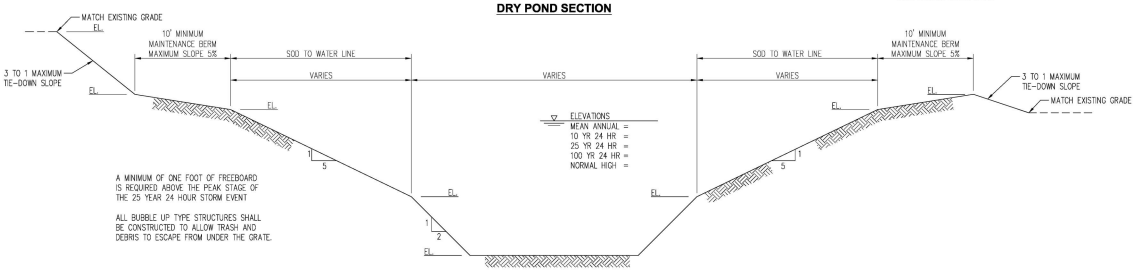
2 GRAVITY SEWER DOGHOUSE MANHOLE
N.T.S.



3 UNDERDRAIN DETAIL
N.T.S.



DRY POND SECTION



WET POND SECTION

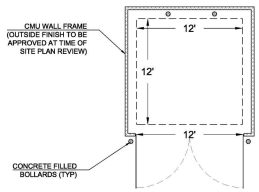
4 POND SECTIONS
N.T.S.

WINTER GARDEN STANDARDS INCORPORATED WITH DESIGN ENGINEERS DOCUMENTS:

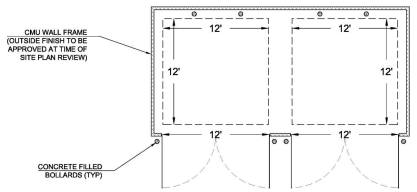
THE DETAILS, NOTES AND SPECIFICATIONS SHOWN ON THIS SHEET REPRESENT THE NOTED STANDARDS OF THE CITY OF WINTER GARDEN FOR CONSTRUCTION OF PUBLIC WORKS AND UTILITY INFRASTRUCTURE. BY INCLUDING THE STANDARDS, THE DESIGN ENGINEER HAS ACKNOWLEDGED THAT THEY ARE EFFECTIVE TO THE PROJECT AND THAT DETAILS, NOTES, OR SPECIFICATIONS ARE AS PROVIDED BY THE CITY AND HAVE NOT BEEN REVISED OR MODIFIED WITHOUT WRITTEN APPROVAL FROM THE CITY ENGINEER OR UTILITY DIRECTOR.

THE BACKGROUND COLOR SHALL BE RETROREFLECTIVE GREEN AND THE LETTERING AND BORDER SHALL BE RETROREFLECTIVE WHITE.

6 STREET SIGN BLADE DETAIL
N.T.S.



12'x12' CLEAR AREA FREE OF BOLLARDS, WALLS AND GATES INCLUDING HINGES REQUIRED



2 SEPARATE 12'x12' CLEAR AREAS FREE OF BOLLARDS, WALLS AND GATES INCLUDING HINGES REQUIRED

7 DUMPSTER LAYOUT DETAIL
N.T.S.

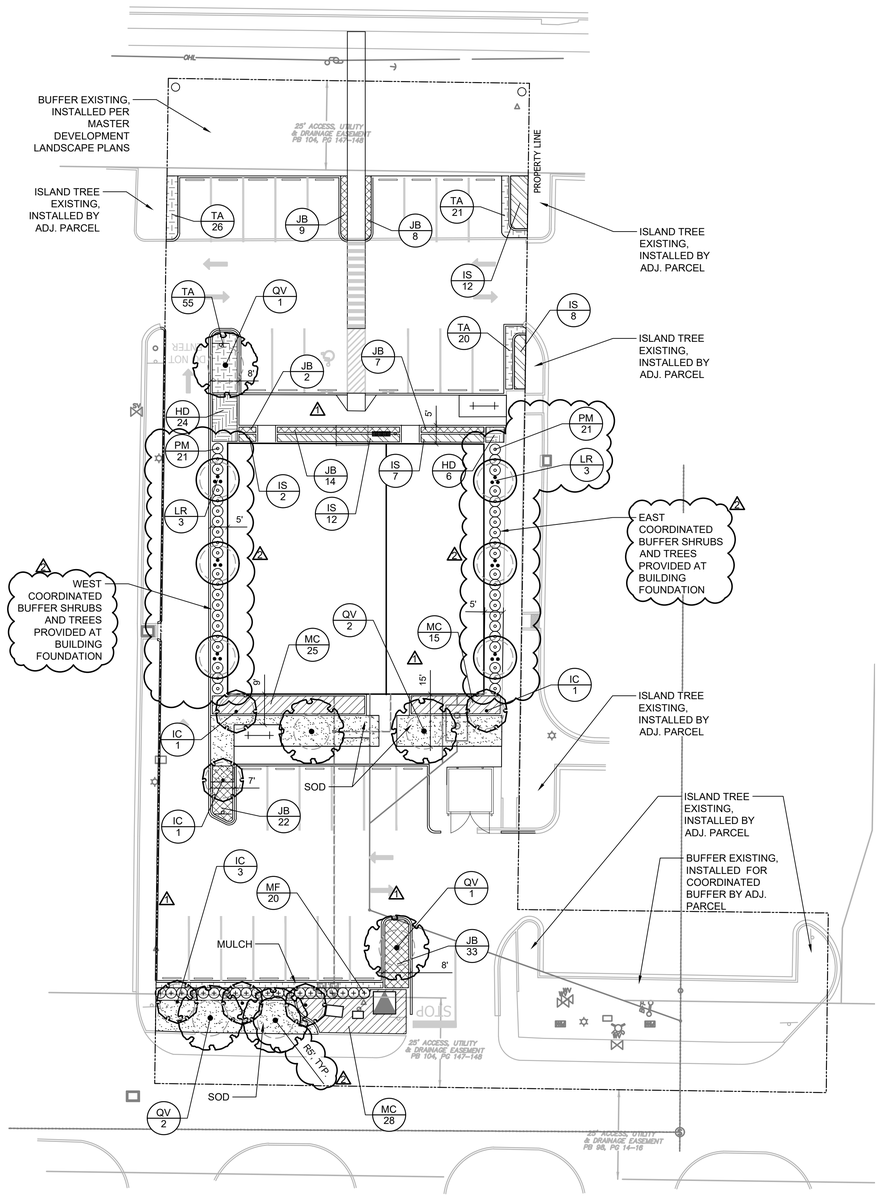
DATE
ITEM
No.
REVISIONS

CITY OF WINTER GARDEN, FLORIDA
STANDARDS AND SPECIFICATIONS
FOR UTILITY CONSTRUCTION

WINTER GARDEN

STANDARD DETAILS
FOR
MISCELLANEOUS DETAILS

DATE
JANUARY 2024
SHEET
11
11 OF 11



NORTH

0' 10' 20' 40'

Scale 1" = 20'

NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING BAR SCALE ABOVE.

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ROOT BARRIERS

THE CONTRACTOR SHALL INSTALL ROOT BARRIERS NEAR ALL NEWLY-PLANTED TREES THAT ARE LOCATED WITHIN FIVE (5) FEET OF PAVING, CURBS, WATER, STORM, OR SANITARY SEWER UTILITIES. ROOT BARRIERS SHALL BE "CENTURY" OR "DEEP-ROOT" 24" DEEP PANELS (OR EQUAL). BARRIERS SHALL BE LOCATED IMMEDIATELY ADJACENT TO HARDSCAPE. INSTALL PANELS PER MANUFACTURER'S RECOMMENDATIONS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR USE ROOT BARRIERS OF A TYPE THAT COMPLETELY ENCIRCLE THE ROOTBALL.

MULCHES

AFTER ALL PLANTING IS COMPLETE, CONTRACTOR SHALL INSTALL 3" THICK LAYER OF 1-1/2" SHREDDED WOOD MULCH, NATURAL (UNDYED), OVER LANDSCAPEFABRIC IN ALL PLANTING AREAS (EXCEPT FOR TURF AND SEEDED AREAS). CONTRACTOR SHALL SUBMIT SAMPLES OF ALL MULCHES TO LANDSCAPE ARCHITECT AND OWNER FOR APPROVAL PRIOR TO CONSTRUCTION. ABSOLUTELY NO EXPOSED GROUND SHALL BE LEFT SHOWING ANYWHERE ON THE PROJECT AFTER MULCH HAS BEEN INSTALLED (SUBJECT TO THE CONDITIONS AND REQUIREMENTS OF THE "GENERAL GRADING AND PLANTING NOTES" AND SPECIFICATIONS).

PLANTING & IRRIGATION GUARANTEE

THE LANDSCAPE CONTRACTOR SHALL GUARANTEE THAT ALL NEWLY INSTALLED AND EXISTING PLANTS SHALL SURVIVE FOR ONE YEAR AFTER FINAL OWNER ACCEPTANCE OF THE INSTALLATION WORK. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR APPROPRIATE WATERING OF THE LANDSCAPE THROUGH INSTALLATION OF A PROPERLY DESIGNED IRRIGATION SYSTEM. THE OWNER SHALL APPROVE THE SYSTEM DESIGN BEFORE INSTALLATION OF PLANTS OR IRRIGATION.

PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONTAINER	CAL/DBH	HEIGHT	SPREAD	NATIVE
TREES									
	IC	6	ILEX CASSINE	DAHOON HOLLY	15 GAL. MIN.	1.5" CAL MIN	7` MIN.		YES
	LR	6	LAGERSTROEMIA INDICA X FAURIEI `TUSCARORA`	TUSCARORA CRAPE MYRTLE MULTI-TRUNK	15 GAL. MIN.	3 TRUNKS MIN., EACH 1" CAL. @ 12" ABOVE GRADE	7` MIN.	FULL	YES
	QV	6	QUERCUS VIRGINIANA	SOUTHERN LIVE OAK	30 GAL MIN	2" CAL. MIN.	12` MIN.		YES

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONTAINER	SPACING	HEIGHT	SPREAD	NATIVE
SHRUBS									
	MF	20	MYRCIANTHES FRAGRANS	SIMPSON'S STOPPER	3 GAL. MIN.	36" OC	24" MIN.		YES
	PM	42	PODOCARPUS MACROPHYLLUS	YEW PODOCARPUS	7 GAL. MIN.	36" OC	36" MIN.	FULL	NO

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	HEIGHT	SPREAD	NATIVE
SMALL SHRUBS & GROUNDCOVERS									
	HD	30	HELIANTHUS DEBILIS	DUNE SUNFLOWER	1 GAL. MIN.	24" OC	FULL		YES
	IS	41	ILEX VOMITORIA `STOKES DWARF`	STOKES DWARF YAUPON HOLLY	3 GAL. MIN.	30" OC	12" HT. MIN		YES
	JB	95	JUNIPERUS CONFERTA 'BLUE PACIFIC'	BLUE PACIFIC SHORE JUNIPER	3 GAL. MIN.	24" OC	6" MIN.		NO
	MC	68	MUHLENBERGIA CAPILLARIS	PINK MUHLY GRASS	3 GAL. MIN.	36' OC	FULL		YES
	TA	166	TRACHELOSPERMUM ASIATICUM	ASIAN JASMINE	1 GAL. MIN.	18" OC	FULL		NO
SOD/SEED									
	SOD	1,021 SF	STENOTAPHRUM SECUNDATUM `FLORATAM`	FLORATAM ST. AUGUSTINE GRASS	SOLID SOD				

ALL PLANTS SHALL MEET, OR EXCEED, FLORIDA NO. 1 GRADE AND MEET, OR EXCEED, ALL SPECIFICATIONS PROVIDED.
PLANT QUANTITIES ARE PROVIDED FOR CONVENIENCE ONLY. IN THE CASE OF A DISCREPANCY, THE DRAWING SHALL TAKE PRECEDENCE.

LANDSCAPE CALCULATIONS

ZONING: WEST MARKET PCD (ORD 20-30)
OVERLAY: WEST STATE ROAD 50

TOTAL SITE AREA: 32,688.3 SF 0.8 AC
TOTAL PERVIOUS AREA: 8,458.7 SF
TOTAL BUILDING AREA: 5,000.0 SF
TOTAL PAVED AREA: 19,229.6 SF

SEC. 118-1522 BUILDING OPEN AREAS

BUILDING PERIMETER - DOOR OPENINGS (LF): 261.3
REQ. LANDSCAPE AREA AT 10' WIDE - 5' SIDEWALK - DOOR OPENINGS (SF): 1,406.3

	REQUIRED	PROVIDED
1 CANOPY TREE / 50 LF	5.2	5.0
MIN. 30% OF GREENSPACE IN SHRUBS/GROUNDCOVERS (SF)	421.9	1,747.1

SEC. 118-1523 LANDSCAPE BUFFER ALONG PUBLIC STREETS

WEST COLONIAL DRIVE (SR 50)

REQUIRED	PROVIDED
EXISTING - INSTALLED PER MASTER DEVELOPMENT LANDSCAPE PLANS	

SEC. 118-1524 LANDSCAPE AREAS BETWEEN PARCELS

			REQUIRED	PROVIDED
SIDE YARD - EAST	5' WIDE COORDINATED BUFFER ADJ. COMMERCIAL	183.0 LF		
	1 CANOPY TREE / 50 LF, 3" CAL, 12' HT, 30 GAL		3.7	3*
	33 SHRUBS / 50 LF, CONTINUOUS MIN. 36" HT AT PLANTING, 3 GAL., 90% OPACITY IN 1 YR		120.8	CONTINUOUS HEDGE* *
	** CRAPE MYRTLE TREES PROVIDED ADJACENT TO BUILDING*			
	*** CONTINUOUS HEDGE OF LARGE SHRUBS PROVIDED ADJACENT TO BUILDING*			
SIDE YARD - WEST	5' WIDE COORDINATED BUFFER ADJ. COMMERCIAL	257.0 LF		
	1 CANOPY TREE / 50 LF, 3" CAL, 12' HT, 30 GAL		5.1	3*
	33 SHRUBS / 50 LF, CONTINUOUS MIN. 36" HT AT PLANTING, 3 GAL., 90% OPACITY IN 1 YR		169.6	CONTINUOUS HEDGE* *
	** CRAPE MYRTLE TREES PROVIDED ADJACENT TO BUILDING*			
	*** CONTINUOUS HEDGE OF LARGE SHRUBS PROVIDED ADJACENT TO BUILDING*			
REAR YARD - SOUTH	10' ADJ. COMMERCIAL	187.7 LF *		

* 1/2 OF BUFFER (EAST OF DRIVEWAY) IS EXISTING INSTALLED LANDSCAPE, 1/2 OF BUFFER (WEST OF DRIVEWAY) IS PROPOSD FOR THIS SITE

2 CANOPY TREE / 100 LF, 2" CAL, 12' HT, 30 GAL	3.8	2 EXISTING (EAST OF DRIVEWAY) 2 PROPOSED (WEST OF DRIVEWAY)
3 UNDERSTORY TREES / 100 LF, 1.5"-2" CAL, 7' HT, 15 GAL	5.6	3 EXISTING (EAST OF DRIVEWAY) 3 PROPOSED (WEST OF DRIVEWAY)
33 SHRUBS / 100 LF, CONTINUOUS MIN. 24" HT AT PLANTING, 3 GAL., 36"-42" HT X 36" WIDE HEDGE AT 90% OPACITY IN 1 YR	61.9	EXISTING (EAST OF DRIVEWAY) 48 PROPOSED (WEST OF DRIVEWAY)

SEC. 118-1525 PARKING LOT LANDSCAPING

PARKING SPACES: 29.0
PAVED AREA (SF): 19,229.6

	REQUIRED	PROVIDED
1 CANOPY TREE / 10 SPACES, 2" CAL, 12' HT, 30 GAL	2.9	2 EXISTING (IN SHARED ISLANDS) 1 PROPOSED
LANDSCAPE AREA EQUAL OR GREATER THAN 10% OF PAVED AREA IN PROJECT SITE (NOT INCL BUILDING OR RETENTION)	1,923.0	2,693.8
40% OF REQ. LANDSCAPE AREA IN SHRUBS/GROUNDCOVER VS. SOD	769.2	1,789.6

SEC. 118-1529 STORAGE AREAS AND SITE UTILITIES

		REQUIRED	PROVIDED
STORAGE AND DUMPSTER/SOLID WASTE AREAS	*24" HT HEDGE AT PLANTING, REACHING 36"-42" HT AND 90% OPACITY IN 1 YR*	PROVIDED WHERE POSSIBLE DUE TO TIGHT SITE CONDITIONS	
ABOVE-GROUND UTILITIES	*24" HT HEDGE AT PLANTING DESIGNED TO ALLOW MAINT, REACHING 36"-42" HT AND 90% OPACITY IN 1 YR*		

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OWNER LOGO:

OWNER / PROJECT:

COVENANT GROUP LLC.
WINTER GARDEN
SHELL BUILDING
14134 W. COLONIAL DRIVE,
WINTER GARDEN, FLORIDA 34787

PROFESSIONAL SEAL:

REGISTERED LANDSCAPE ARCHITECT
JENNIFER N. MILLER
LA 6667079
STATE
FLORIDA

MARK	DATE	DESCRIPTION
1	10/03/2025	CITY COMMENTS
2	11/24/2025	CITY COMMENTS

ISSUE DATE: JULY 18, 2025

LANDSCAPE PLAN

PROJECT NO. 2025-12.00
DRAWN BY JNM
CHECKED BY MNB

LP-1

Scale As indicated

PLANTING SPECIFICATIONS

GENERAL

A. QUALIFICATIONS OF LANDSCAPE CONTRACTOR
   1. ALL LANDSCAPE WORK SHOWN ON THESE PLANS SHALL BE PERFORMED BY A SINGLE FIRM SPECIALIZING IN LANDSCAPE PLANTING.
   2. A LIST OF SUCCESSFULLY COMPLETED PROJECTS OF THIS TYPE, SIZE AND NATURE MAY BE REQUESTED BY THE OWNER FOR FURTHER QUALIFICATION MEASURES.
   3. THE LANDSCAPE CONTRACTOR SHALL HOLD A VALID CONTRACTOR'S LICENSE ISSUED BY THE APPROPRIATE LOCAL JURISDICTION.

B. SCOPE OF WORK
   1. WORK COVERED BY THESE SECTIONS INCLUDES THE FURNISHING AND PAYMENT OF ALL MATERIALS, LABOR, SERVICES, EQUIPMENT, LICENSES, TAXES AND ANY OTHER ITEMS THAT ARE NECESSARY FOR THE EXECUTION, INSTALLATION AND COMPLETION OF ALL WORK, SPECIFIED HEREIN AND / OR SHOWN ON THE LANDSCAPE PLANS, NOTES, AND DETAILS.
   2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER SUCH WORK, INCLUDING ALL INSPECTIONS AND PERMITS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES IN SUPPLY, TRANSPORTATION AND INSTALLATION OF MATERIALS.
   3. THE LANDSCAPE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITY LINES (WATER, SEWER, ELECTRICAL, TELEPHONE, GAS, CABLE, TELEVISION, ETC.) PRIOR TO THE START OF ANY WORK.

PRODUCTS

A. ALL MANUFACTURED PRODUCTS SHALL BE NEW.
B. CONTAINER AND BALLED-AND-BURLAPPED PLANTS:
   1. FURNISH NURSERY-GROWN PLANTS COMPLYING WITH ANSI Z60.1-2014. PROVIDE WELL-SHAPED, FULLY BRANCHED, HEALTHY, VIGOROUS STOCK FREE OF DISEASE, INSECTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN SCALD, INJURIES, ABRASIONS, AND DISFIGUREMENT. ALL PLANTS WITHIN A SPECIES SHALL HAVE SIMILAR SIZE, AND SHALL BE OF A FORM TYPICAL FOR THE SPECIES. ALL TREES SHALL BE OBTAINED FROM SOURCES WITHIN 200 MILES OF THE PROJECT SITE, AND WITH SIMILAR CLIMACTIC CONDITIONS.
   2. ROOT SYSTEMS SHALL BE HEALTHY, DENSELY BRANCHED ROOT SYSTEMS, NON-POT-BOUND, FREE FROM ENCIRCLING AND/OR GIRDLING ROOTS, AND FREE FROM ANY OTHER ROOT DEFECTS (SUCH AS J-SHAPED ROOTS).
   3. TREES MAY BE PLANTED FROM CONTAINERS OR BALLED-AND-BURLAPPED (B&B), UNLESS SPECIFIED ON THE PLANTING LEGEND. BARE-ROOT TREES ARE NOT ACCEPTABLE.
   4. ANY PLANT DEEMED UNACCEPTABLE BY THE LANDSCAPE ARCHITECT OR OWNER SHALL BE IMMEDIATELY REMOVED FROM THE SITE AND SHALL BE REPLACED WITH AN ACCEPTABLE PLANT OF LIKE TYPE AND SIZE AT THE CONTRACTOR'S OWN EXPENSE. ANY PLANTS APPEARING TO BE UNHEALTHY, EVEN IF DETERMINED TO STILL BE ALIVE, SHALL NOT BE ACCEPTED. THE LANDSCAPE ARCHITECT AND OWNER SHALL BE THE SOLE JUDGES AS TO THE ACCEPTABILITY OF PLANT MATERIAL.
   5. ALL TREES SHALL BE STANDARD IN FORM, UNLESS OTHERWISE SPECIFIED. TREES WITH CENTRAL LEADERS WILL NOT BE ACCEPTED IF LEADER IS DAMAGED OR REMOVED. PRUNE ALL DAMAGED TWIGS AFTER PLANTING.
   6. CALIPER MEASUREMENTS FOR STANDARD (SINGLE TRUNK) TREES SHALL BE AS FOLLOWS: SIX INCHES ABOVE THE ROOT FLARE FOR TREES UP TO AND INCLUDING FOUR INCHES IN CALIPER, AND TWELVE INCHES ABOVE THE ROOT FLARE FOR TREES EXCEEDING FOUR INCHES IN CALIPER.
   7. MULTI-TRUNK TREES SHALL BE MEASURED BY THEIR OVERALL HEIGHT, MEASURED FROM THE TOP OF THE ROOT BALL. WHERE CALIPER MEASUREMENTS ARE USED, THE CALIPER SHALL BE CALCULATED AS ONE-HALF OF THE SUM OF THE CALIPER OF THE THREE LARGEST TRUNKS.
   8. ANY TREE OR SHRUB SHOWN TO HAVE EXCESS SOIL PLACED ON TOP OF THE ROOT BALL, SO THAT THE ROOT FLARE HAS BEEN COMPLETELY COVERED, SHALL BE REJECTED.
C. SOD: PROVIDE WELL-ROOTED SOD OF THE VARIETY NOTED ON THE PLANS. SOD SHALL BE CUT FROM HEALTHY, MATURE TURF WITH SOIL THICKNESS OF 3/4" TO 1". EACH PALLET OF SOD SHALL BE ACCOMPANIED BY A CERTIFICATE FROM SUPPLIER STATING THE COMPOSITION OF THE SOD.
D. TOPSOIL: SANDY TO CLAY LOAM TOPSOIL, FREE OF STONES LARGER THAN ½ INCH, FOREIGN MATTER, PLANTS, ROOTS, AND SEEDS.
E. COMPOST: WELL-COMPOSTED, STABLE, AND WEED-FREE ORGANIC MATTER, pH RANGE OF 5.5 TO 8; MOISTURE CONTENT 35 TO 55 PERCENT BY WEIGHT; 100 PERCENT PASSING THROUGH 3/4-INCH SIEVE; SOLUBLE SALT CONTENT OF 5 TO 10 DECISIEMENS/M; NOT EXCEEDING 0.5 PERCENT INERT CONTAMINANTS AND FREE OF SUBSTANCES TOXIC TO PLANTINGS. NO MANURE OR ANIMAL-BASED PRODUCTS SHALL BE USED.
F. FERTILIZER: GRANULAR FERTILIZER CONSISTING OF NITROGEN, PHOSPHORUS, POTASSIUM, AND OTHER NUTRIENTS IN PROPORTIONS, AMOUNTS, AND RELEASE RATES RECOMMENDED IN A SOIL REPORT FROM A QUALIFIED SOIL-TESTING AGENCY (SEE BELOW).
G. MULCH: SIZE AND TYPE AS INDICATED ON PLANS, FREE FROM DELETERIOUS MATERIALS AND SUITABLE AS A TOP DRESSING OF TREES AND SHRUBS.
H. TREE STAKING AND GUYING
   1. STAKES: 6' LONG GREEN METAL T-POSTS.
   2. GUY AND TIE WIRE: ASTM A 641, CLASS 1, GALVANIZED-STEEL WIRE, 2-STRAND, TWISTED, 0.106 INCH DIAMETER.
   3. STRAP CHAFING GUARD: REINFORCED NYLON OR CANVAS AT LEAST 1-1/2 INCH WIDE, WITH GROMMETS TO PROTECT TREE TRUNKS FROM DAMAGE.
I. PRE-EMERGENT HERBICIDES: ANY GRANULAR, NON-STAINING PRE-EMERGENT HERBICIDE THAT IS LABELED FOR THE SPECIFIC ORNAMENTALS OR TURF ON WHICH IT WILL BE UTILIZED. PRE-EMERGENT HERBICIDES SHALL BE APPLIED PER THE MANUFACTURER'S LABELED RATES.

METHODS

A. SOIL PREPARATION
   1. BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE GRADE OF ALL LANDSCAPE AREAS ARE WITHIN +/-0.1' OF FINISH GRADE. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY SHOULD ANY DISCREPANCIES EXIST.
   2. SOIL TESTING:
      a. AFTER FINISH GRADES HAVE BEEN ESTABLISHED, CONTRACTOR SHALL HAVE SOIL SAMPLES FROM THE PROJECT'S LANDSCAPE AREAS TESTED BY AN ESTABLISHED SOIL TESTING LABORATORY. EACH SAMPLE SUBMITTED TO THE LAB SHALL CONTAIN NO LESS THAN ONE QUART OF SOIL, TAKEN FROM BETWEEN THE SOIL SURFACE AND 6" DEPTH. IF NO SAMPLE LOCATIONS ARE INDICATED ON THE PLANS, THE CONTRACTOR SHALL TAKE A MINIMUM OF THREE SAMPLES FROM VARIOUS REPRESENTATIVE LOCATIONS FOR TESTING.
      b. THE CONTRACTOR SHALL HAVE THE SOIL TESTING LABORATORY PROVIDE RESULTS FOR THE FOLLOWING: SOIL TEXTURAL CLASS, GENERAL SOIL FERTILITY, pH, ORGANIC MATTER CONTENT, SALT (CEC), LIME, SODIUM ADSORPTION RATIO (SAR) AND BORON CONTENT.
      c. THE CONTRACTOR SHALL ALSO SUBMIT THE PROJECT'S PLANT LIST TO THE LABORATORY ALONG WITH THE SOIL SAMPLES.
      d. THE SOIL REPORT PRODUCED BY THE LABORATORY SHALL CONTAIN RECOMMENDATIONS FOR THE FOLLOWING (AS APPROPRIATE): SEPARATE SOIL PREPARATION AND BACKFILL MIX RECOMMENDATIONS FOR GENERAL ORNAMENTAL PLANTS, XERIC PLANTS, TURF, AND NATIVE SEED, AS WELL AS PRE-PLANT FERTILIZER APPLICATIONS AND RECOMMENDATIONS FOR ANY OTHER SOIL RELATED ISSUES. THE REPORT SHALL ALSO PROVIDE A FERTILIZER PROGRAM FOR THE ESTABLISHMENT PERIOD AND FOR LONG-TERM MAINTENANCE.
   3. THE CONTRACTOR SHALL INSTALL SOIL AMENDMENTS AND FERTILIZERS PER THE SOILS REPORT RECOMMENDATIONS. ANY CHANGE IN COST DUE TO THE SOIL REPORT RECOMMENDATIONS, EITHER INCREASE OR DECREASE, SHALL BE SUBMITTED TO THE OWNER WITH THE REPORT.
   4. FOR BIDDING PURPOSES ONLY, THE SOIL PREPARATION SHALL CONSIST OF THE FOLLOWING:
      a. TURF: INCORPORATE THE FOLLOWING AMENDMENTS INTO THE TOP 8" OF SOIL BY MEANS OF ROTOTILLING AFTER CROSS-RIPPING:
         i. NITROGEN STABILIZED ORGANIC AMENDMENT - 4 CU. YDS. PER 1,000 S.F.
         ii. PREPLANT TURF FERTILIZER (10-20-10 OR SIMILAR, SLOW RELEASE, ORGANIC) - 15 LBS PER 1,000 S.F.
         iii. "CLAY BUSTER" OR EQUAL - USE MANUFACTURER'S RECOMMENDED RATE
      b. TREES, SHRUBS, AND PERENNIALS: INCORPORATE THE FOLLOWING AMENDMENTS INTO THE TOP 8" OF SOIL BY MEANS OF ROTOTILLING AFTER CROSS-RIPPING:
         i. NITROGEN STABILIZED ORGANIC AMENDMENT - 4 CU. YDS. PER 1,000 S.F.
         ii. 12-12-12 FERTILIZER (OR SIMILAR, ORGANIC, SLOW RELEASE) - 10 LBS. PER CU. YD.
         iii. "CLAY BUSTER" OR EQUAL - USE MANUFACTURER'S RECOMMENDED RATE
         iv. IRON SULPHATE - 2 LBS. PER CU. YD.
   5. IN THE CONTEXT OF THESE PLANS, NOTES, AND SPECIFICATIONS, "FINISH GRADE" REFERS TO THE FINAL ELEVATION OF THE SOIL SURFACE (NOT TOP OF MULCH) AS INDICATED ON THE GRADING PLANS.
      a. BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE ROUGH GRADES OF ALL LANDSCAPE AREAS ARE WITHIN +/-0.1' OF FINISH GRADE. SEE SPECIFICATIONS FOR MORE DETAILED INSTRUCTION ON TURF AREA AND PLANTING BED PREPARATION.
      b. CONSTRUCT AND MAINTAIN FINISH GRADES AS SHOWN ON GRADING PLANS, AND CONSTRUCT AND MAINTAIN SLOPES AS RECOMMENDED BY THE GEOTECHNICAL REPORT. ALL LANDSCAPE AREAS SHALL HAVE POSITIVE DRAINAGE AWAY FROM STRUCTURES AT THE MINIMUM SLOPE SPECIFIED IN THE REPORT AND ON THE GRADING PLANS, AND AREAS OF POTENTIAL PONDING SHALL BE REGRADED TO BLEND IN WITH THE SURROUNDING GRADES AND ELIMINATE PONDING POTENTIAL.
      c. THE LANDSCAPE CONTRACTOR SHALL DETERMINE WHETHER OR NOT THE EXPORT OF ANY SOIL WILL BE NEEDED, TAKING INTO ACCOUNT THE ROUGH GRADE PROVIDED, THE AMOUNT OF SOIL AMENDMENTS TO BE ADDED (**BASED ON A SOIL TEST**, PER SPECIFICATIONS), AND THE FINISH GRADES TO BE ESTABLISHED.
      d. ENSURE THAT THE FINISH GRADE IN SHRUB AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 3" BELOW THE ADJACENT FINISH SURFACE, IN ORDER TO ALLOW FOR PROPER MULCH DEPTH. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
      e. ENSURE THAT THE FINISH GRADE IN TURF AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 1" BELOW THE FINISH SURFACE OF THE WALKS. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
      f. SHOULD ANY CONFLICTS AND/OR DISCREPANCIES ARISE BETWEEN THE GRADING PLANS, GEOTECHNICAL REPORT, THESE NOTES AND PLANS, AND ACTUAL CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY BRING SUCH ITEMS TO THE ATTENTION OF THE LANDSCAPE ARCHITECT, GENERAL CONTRACTOR, AND OWNER.
   6. ONCE SOIL PREPARATION IS COMPLETE, THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT THERE ARE NO DEBRIS, TRASH, OR STONES LARGER THAN 1" REMAINING IN THE TOP 6" OF SOIL.

B. SUBMITTALS
   1. THE CONTRACTOR SHALL PROVIDE SUBMITTALS AND SAMPLES, IF REQUIRED, TO THE LANDSCAPE ARCHITECT, AND RECEIVE APPROVAL IN WRITING FOR SUCH SUBMITTALS BEFORE WORK COMMENCES.
   2. SUBMITTALS SHALL INCLUDE PHOTOS OF PLANTS WITH A RULER OR MEASURING STICK FOR SCALE, PHOTOS OR SAMPLES OF ANY REQUIRED MULCHES, AND SOIL TEST RESULTS AND PREPARATION RECOMMENDATIONS FROM THE TESTING LAB (INCLUDING COMPOST AND FERTILIZER RATES AND TYPES, AND OTHER AMENDMENTS FOR TREE/SHRUB, TURF, AND SEED AREAS AS MAY BE APPROPRIATE).
   3. SUBMITTALS SHALL ALSO INCLUDE MANUFACTURER CUT SHEETS FOR PLANTING ACCESSORIES SUCH AS TREE STAKES AND TIES, EDGING, AND LANDSCAPE FABRICS (IF ANY).
   4. WHERE MULTIPLE ITEMS ARE SHOWN ON A PAGE, THE CONTRACTOR SHALL CLEARLY INDICATE THE ITEM BEING CONSIDERED.

C. GENERAL PLANTING
   1. REMOVE ALL NURSERY TAGS AND STAKES FROM PLANTS.
   2. EXCEPT IN AREAS TO BE PLANTED WITH ORNAMENTAL GRASSES, APPLY PRE-EMERGENT HERBICIDES AT THE MANUFACTURER'S RECOMMENDED RATE.
   3. TRENCHING NEAR EXISTING TREES:
      A. CONTRACTOR SHALL NOT DISTURB ROOTS 1-1/2" AND LARGER IN DIAMETER WITHIN THE CRITICAL ROOT ZONE (CRZ) OF EXISTING TREES, AND SHALL EXERCISE ALL POSSIBLE CARE AND PRECAUTIONS TO AVOID INJURY TO TREE ROOTS, TRUNKS, AND BRANCHES. THE CRZ IS DEFINED AS A CIRCULAR AREA EXTENDING OUTWARD FROM THE TREE TRUNK, WITH A RADIUS EQUAL TO 1' FOR EVERY 1" OF TRUNK DIAMETER-AT-BREAST-HEIGHT (4.5' ABOVE THE AVERAGE GRADE AT THE TRUNK).
      B. ALL EXCAVATION WITHIN THE CRZ SHALL BE PERFORMED USING HAND TOOLS. NO MACHINE EXCAVATION OR TRENCHING OF ANY KIND SHALL BE ALLOWED WITHIN THE CRZ.
      C. ALTER ALIGNMENT OF PIPE TO AVOID TREE ROOTS 1-1/2" AND LARGER IN DIAMETER. WHERE TREE ROOTS 1-1/2" AND LARGER IN DIAMETER ARE ENCOUNTERED IN THE FIELD, TUNNEL UNDER SUCH ROOTS. WRAP EXPOSED ROOTS WITH SEVERAL LAYERS OF BURLAP AND KEEP MOIST. CLOSE ALL TRENCHES WITHIN THE CANOPY DRIP LINES WITHIN 24 HOURS.
      D. ALL SEVERED ROOTS SHALL BE HAND PRUNED WITH SHARP TOOLS AND ALLOWED TO AIR-DRY. DO NOT USE ANY SORT OF SEALERS OR WOUND PAINTS.
   D. TREE PLANTING
      1. TREE PLANTING HOLES SHALL BE EXCAVATED TO MINIMUM WIDTH OF TWO TIMES THE WIDTH OF THE ROOTBALL, AND TO A DEPTH EQUAL TO THE DEPTH OF THE ROOTBALL LESS TWO TO FOUR INCHES.
      2. SCARIFY THE SIDES AND BOTTOM OF THE PLANTING HOLE PRIOR TO THE PLACEMENT OF THE TREE. REMOVE ANY GLAZING THAT MAY HAVE BEEN CAUSED DURING THE EXCAVATION OF THE HOLE.
      3. FOR CONTAINER AND BOX TREES, TO REMOVE ANY POTENTIALLY GIRDLING ROOTS AND OTHER ROOT DEFECTS, THE CONTRACTOR SHALL SHAVE A 1" LAYER OFF OF THE SIDES AND BOTTOM OF THE ROOTBALL OF ALL TREES JUST BEFORE PLACING INTO THE PLANTING PIT. DO NOT "TEASE" ROOTS OUT FROM THE ROOTBALL.
      4. INSTALL THE TREE ON UNDISTURBED SUBGRADE SO THAT THE TOP OF THE ROOTBALL IS TWO TO FOUR INCHES ABOVE THE SURROUNDING GRADE.
      5. BACKFILL THE TREE HOLE UTILIZING THE EXISTING TOPSOIL FROM ON-SITE. ROCKS LARGER THAN 1" DIA. AND ALL OTHER DEBRIS SHALL BE REMOVED FROM THE SOIL PRIOR TO THE BACKFILL. SHOULD ADDITIONAL SOIL BE REQUIRED TO ACCOMPLISH THIS TASK, USE STORED TOPSOIL FROM ON-SITE OR IMPORT ADDITIONAL TOPSOIL FROM OFF-SITE AT NO ADDITIONAL COST TO THE OWNER. IMPORTED TOPSOIL SHALL BE OF SIMILAR TEXTURAL CLASS AND COMPOSITION IN THE ON-SITE SOIL.
      6. TREES SHALL NOT BE STAKED UNLESS LOCAL CONDITIONS (SUCH AS HEAVY WINDS OR SLOPES) REQUIRE STAKES TO KEEP TREES UPRIGHT. SHOULD STAKING BE REQUIRED, THE TOTAL NUMBER OF TREE STAKES (BEYOND THE MINIMUMS LISTED BELOW) WILL BE LEFT TO THE LANDSCAPE CONTRACTOR'S DISCRETION. SHOULD ANY TREES FALL OR LEAN, THE LANDSCAPE CONTRACTOR SHALL STRAIGHTEN THE TREE, OR REPLACE IT SHOULD IT BECOME DAMAGED. TREE STAKING SHALL ADHERE TO THE FOLLOWING GUIDELINES:

A.	1"-2" TREES	TWO STAKES PER TREE
B.	2-1/2"-4" TREES	THREE STAKES PER TREE
C.	TREES OVER 4" CALIPER	GUY AS NEEDED
D.	MULTI-TRUNK TREES	THREE STAKES PER TREE MINIMUM, QUANTITY AND POSITIONS AS NEEDED TO STABILIZE THE TREE

      7. UPON COMPLETION OF PLANTING, CONSTRUCT AN EARTH WATERING BASIN AROUND THE TREE. COVER THE INTERIOR OF THE TREE RING WITH MULCH (TYPE AND DEPTH PER PLANS).
   E. SHRUB, PERENNIAL, AND GROUNDCOVER PLANTING
      1. DIG THE PLANTING HOLES TWICE AS WIDE AND 2" LESS DEEP THAN EACH PLANT'S ROOTBALL. INSTALL THE PLANT IN THE HOLE. BACKFILL AROUND THE PLANT WITH SOIL AMENDED PER SOIL TEST RECOMMENDATIONS.
      2. WHEN PLANTING IS COMPLETE, INSTALL MULCH (TYPE AND DEPTH PER PLANS) OVER ALL PLANTING BEDS, COVERING THE ENTIRE PLANTING AREA.
   F. SODDING
      1. SOD VARIETY TO BE AS SPECIFIED ON THE LANDSCAPE PLAN.
      2. LAY SOD WITHIN 24 HOURS FROM THE TIME OF STRIPPING. DO NOT LAY IF THE GROUND IS FROZEN.
      3. LAY THE SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS. BUTT ENDS AND SIDES OF SOD STRIPS - DO NOT OVERLAP. STAGGER STRIPS TO OFFSET JOINTS IN ADJACENT COURSES.
      4. ROLL THE SOD TO ENSURE GOOD CONTACT OF THE SOD'S ROOT SYSTEM WITH THE SOIL UNDERNEATH.
      5. WATER THE SOD THOROUGHLY WITH A FINE SPRAY IMMEDIATELY AFTER PLANTING TO OBTAIN AT LEAST SIX INCHES OF PENETRATION INTO THE SOIL BELOW THE SOD.
   G. MULCH
      1. INSTALL MULCH TOPDRESSING, TYPE AND DEPTH PER MULCH NOTE, IN ALL PLANTING AREAS AND TREE RINGS.
      2. DO NOT INSTALL MULCH WITHIN 6" OF TREE ROOT FLARE, EXCEPT AS MAY BE NOTED ON THESE PLANS. MULCH COVER WITHIN 6" OF CONCRETE WALKS AND CURBS SHALL NOT PROTRUDE ABOVE THE FINISH SURFACE OF THE WALKS AND CURBS. MULCH COVER WITHIN 12" OF WALLS SHALL BE AT LEAST 3" LOWER THAN THE TOP OF WALL.
   H. CLEAN UP
      1. DURING LANDSCAPE PREPARATION AND PLANTING, KEEP ALL PAVEMENT CLEAN AND ALL WORK AREAS IN A NEAT, ORDERLY CONDITION.
      2. DISPOSED LEGALLY OF ALL EXCAVATED MATERIALS OFF THE PROJECT SITE.
   I. INSPECTION AND ACCEPTANCE.
      1. UPON COMPLETION OF THE WORK, THE LANDSCAPE CONTRACTOR SHALL PROVIDE THE SITE CLEAN, FREE OF DEBRIS AND TRASH, AND SUITABLE FOR USE AS INTENDED. THE LANDSCAPE CONTRACTOR SHALL THEN REQUEST AN INSPECTION BY THE OWNER TO DETERMINE FINAL ACCEPTABILITY.
      2. WHEN THE INSPECTED PLANTING WORK DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS, THE LANDSCAPE CONTRACTOR SHALL REPLACE AND/OR REPAIR THE REJECTED WORK TO THE OWNER'S SATISFACTION WITHIN 24 HOURS.
      3. THE LANDSCAPE MAINTENANCE PERIOD WILL NOT COMMENCE UNTIL THE LANDSCAPE WORK HAS BEEN RE-INSPECTED BY THE OWNER AND FOUND TO BE ACCEPTABLE. AT THAT TIME, A WRITTEN NOTICE OF FINAL ACCEPTANCE WILL BE ISSUED BY THE OWNER, AND THE MAINTENANCE AND GUARANTEE PERIODS WILL COMMENCE.
   J. LANDSCAPE MAINTENANCE
      1. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL WORK SHOWN ON THESE PLANS FOR 90 DAYS BEYOND FINAL ACCEPTANCE OF ALL LANDSCAPE WORK BY THE OWNER. LANDSCAPE MAINTENANCE SHALL INCLUDE WEEKLY SITE VISITS FOR THE FOLLOWING ACTIONS (AS APPROPRIATE): PROPER PRUNING, RESTAKING OF TREES, RESETTING OF PLANTS THAT HAVE SETTLED, MOWING AND EDGING OF LAWNS, WEEDING, TREATING FOR INSECTS AND DISEASES,REPLACEMENT OF MULCH, REMOVAL OF LITTER, REPAIRS TO THE IRRIGATION SYSTEM DUE TO FAULTY PARTS AND/OR WORKMANSHIP, AND THE APPROPRIATE WATERING OF ALL PLANTINGS. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE IRRIGATION SYSTEM IN PROPER WORKING ORDER, WITH SCHEDULING ADJUSTMENTS BY SEASON TO MAXIMIZE WATER CONSERVATION.
      2. SHOULD SODDED AREAS NOT BE COVERED BY AN AUTOMATIC IRRIGATION SYSTEM, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING THESE AREAS AND OBTAINING A FULL, HEALTHY STAND OF PLANTS AT NO ADDITIONAL COST TO THE OWNER.
      3. TO ACHIEVE FINAL ACCEPTANCE AT THE END OF THE MAINTENANCE PERIOD, ALL OF THE FOLLOWING CONDITIONS MUST OCCUR:
      A. THE LANDSCAPE SHALL SHOW ACTIVE, HEALTHY GROWTH (WITH EXCEPTIONS MADE FOR SEASONAL DORMANCY). ALL PLANTS NOT MEETING THIS CONDITION SHALL BE REJECTED AND REPLACED BY HEALTHY PLANT MATERIAL PRIOR TO FINAL ACCEPTANCE.
      B. ALL HARDSCAPE SHALL BE CLEANED PRIOR TO FINAL ACCEPTANCE.
      C. SODDED AREAS MUST BE ACTIVELY GROWING AND MUST REACH A MINIMUM HEIGHT OF 1 1/2 INCHES BEFORE FIRST MOWING. BARE AREAS LARGER THAN TWELVE SQUARE INCHES MUST BE RESODDED PRIOR TO FINAL ACCEPTANCE. ALL SODDED TURF SHALL BE NEATLY MOWED.
   K. WARRANTY PERIOD, PLANT GUARANTEE AND REPLACEMENTS.
      1. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL TREES, SHRUBS, PERENNIALS, SOD, AND IRRIGATION SYSTEMS FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE OWNER'S FINAL ACCEPTANCE (90 DAYS FOR ANNUAL PLANTS). THE CONTRACTOR SHALL REPLACE, AT HIS OWN EXPENSE AND TO THE SATISFACTION OF THE OWNER, ANY PLANTS WHICH DIE IN THAT TIME, OR REPAIR ANY PORTIONS OF THE IRRIGATION SYSTEM WHICH OPERATE IMPROPERLY.
      2. AFTER THE INITIAL MAINTENANCE PERIOD AND DURING THE GUARANTEE PERIOD, THE LANDSCAPE CONTRACTOR SHALL ONLY BE RESPONSIBLE FOR REPLACEMENT OF PLANTS WHEN PLANT DEATH CANNOT BE ATTRIBUTED DIRECTLY TO OVERWATERING OR OTHER DAMAGE BY HUMAN ACTIONS.
   L. PROVIDE A MINIMUM OF (2) COPIES OF RECORD DRAWINGS TO THE OWNER UPON COMPLETION OF WORK. A RECORD DRAWING IS A RECORD OF ALL CHANGES THAT OCCURRED IN THE FIELD AND THAT ARE DOCUMENTED THROUGH CHANGE ORDERS, ADDENDA, OR CONTRACTOR/CONSULTANT DRAWING MARKUPS.

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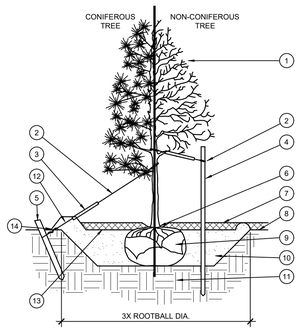
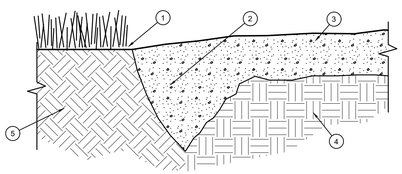


A TREE PLANTING
SCALE: NOT TO SCALE

1. TREE CANOPY.
2. CINCH-TIES (24" BOX/2" CAL. TREES AND SMALLER) OR 12 GAUGE GALVANIZED WIRE WITH NYLON TREE STRAPS AT TREE AND STAKE (36" BOX/2.5" CAL. TREES AND LARGER). SECURE TIES OR STRAPS TO TRUNK JUST ABOVE LOWEST MAJOR BRANCHES.
3. 24" X 3/4" P.V.C. MARKERS OVER WIRES.
4. GREEN STEEL T-POSTS. EXTEND POSTS 12" MIN. INTO UNDISTURBED SOIL.
5. PRESSURE-TREATED WOOD DEADMAN, TWO PER TREE (MIN.). BURY OUTSIDE OF PLANTING PIT AND 18" MIN. INTO UNDISTURBED SOIL.
6. TRUNK FLARE.
7. MULCH, TYPE AND DEPTH PER PLANS. DO NOT PLACE MULCH WITHIN 6" OF TRUNK.
8. FINISH GRADE.
9. ROOT BALL.
10. BACKFILL. AMEND AND FERTILIZE ONLY AS RECOMMENDED IN SOIL FERTILITY ANALYSIS.
11. UNDISTURBED NATIVE SOIL.
12. 4" HIGH EARTHEN WATERING BASIN.
13. FINISH GRADE.
14. MULCH BARRIER. IN AREAS WHERE THE GRADE SLOPES TOWARD THE FDOT RIGHT OF WAY, CONSTRUCT A 4" HIGH BERM TO CONTAIN MULCH. NO MULCH MAY BE PLACED WHERE IT COULD WASH INTO THE FDOT RIGHT OF WAY.

NOTES:
1. SCARIFY SIDES OF PLANTING PIT PRIOR TO SETTING TREE.
2. REMOVE EXCESS SOIL APPLIED ON TOP OF THE ROOTBALL THAT COVERS THE ROOT FLARE. THE PLANTING HOLE DEPTH SHALL BE SUCH THAT THE ROOTBALL RESTS ON UNDISTURBED SOIL, AND THE ROOT FLARE IS 2"-4" ABOVE FINISH GRADE.
3. FOR B&B TREES, CUT OFF BOTTOM 1/3 OF WIRE BASKET BEFORE PLACING TREE IN HOLE, CUT OFF AND REMOVE REMAINDER OF BASKET AFTER TREE IS SET IN HOLE. REMOVE ALL NYLON TIES, TWINE, ROPE, AND OTHER PACKING MATERIAL. REMOVE AS MUCH BURLAP FROM AROUND ROOTBALL AS IS PRACTICAL.
4. REMOVE ALL NURSERY STAKES AFTER PLANTING.
5. FOR TREES 36" BOX/2.5" CAL. AND LARGER, USE THREE STAKES OR DEADMEN (AS APPROPRIATE), SPACED EVENLY AROUND TREE.
6. STAKING SHALL BE TIGHT ENOUGH TO PREVENT TRUNK FROM BENDING, BUT LOOSE ENOUGH TO ALLOW SOME TRUNK MOVEMENT IN WIND.



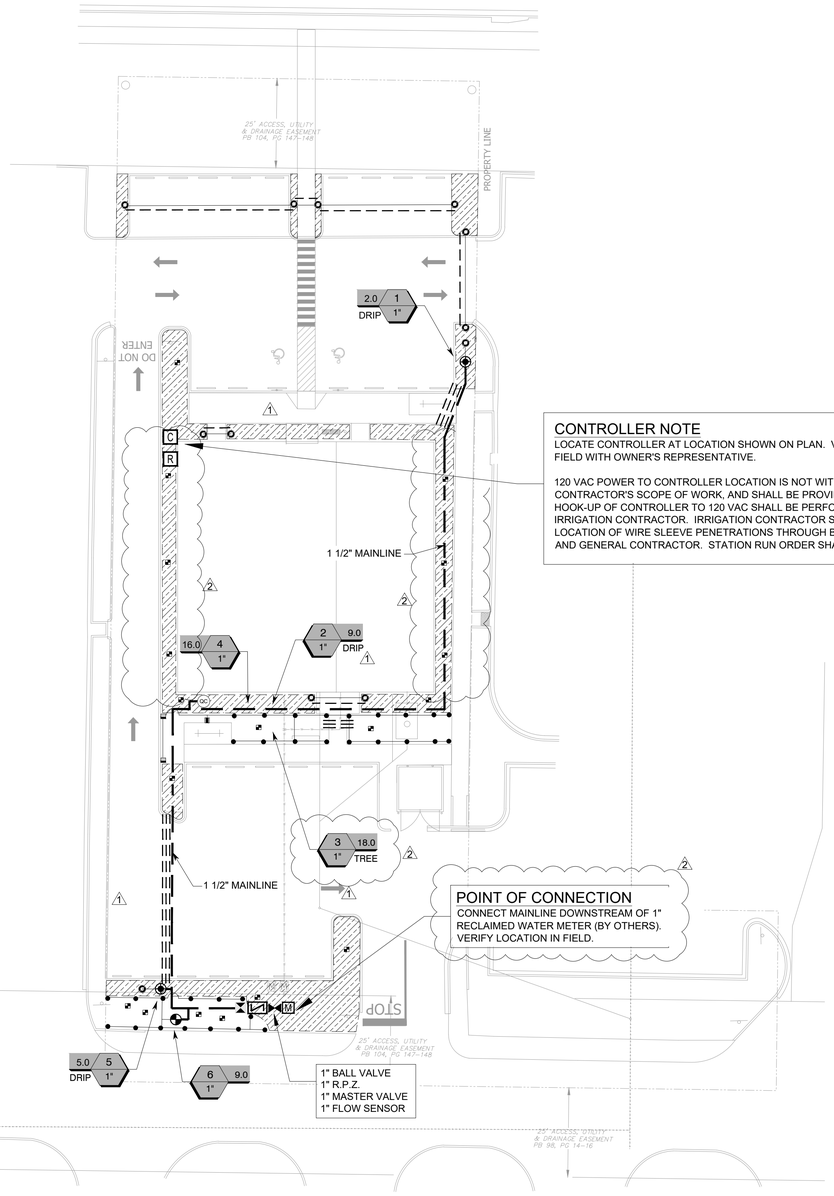
1. FINISH GRADE FOR LAWN
2. EARTH/SPACE EDGE WITH 5"-6" OF MULCH AT EDGE (FLUSH WITH TOP OF LAWN).
3. MULCH PER SPECIFICATIONS
4. SOIL MIX PER SPECIFICATIONS
5. EXISTING SOIL

NOTES:
USE WHEREVER MULCHED TRANSITION TO TURF AREA, INCLUDING ALL TREE MULCH RINGS, SHRUBS, BEDS, MASS PLANTING, ETC., EXCEPT WHERE NOTED OR STEEL EDGING HAS BEEN CALLED OUT.

C EARTH/SPADE EDGE
SCALE: NOT TO SCALE

GENERAL GRADING AND PLANTING NOTES

1. BY SUBMITTING A PROPOSAL FOR THE LANDSCAPE PLANTING SCOPE OF WORK, THE CONTRACTOR CONFIRMS THAT HE HAS READ, AND WILL COMPLY WITH, THE ASSOCIATED NOTES, SPECIFICATIONS, AND DETAILS WITH THIS PROJECT.
2. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL EXISTING VEGETATION (EXCEPT WHERE NOTED TO REMAIN).
3. IN THE CONTEXT OF THESE PLANS, NOTES, AND SPECIFICATIONS, "FINISH GRADE" REFERS TO THE FINAL ELEVATION OF THE SOIL SURFACE (NOT TOP OF MULCH) AS INDICATED ON THE GRADING PLANS.
   a. BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE ROUGH GRADES OF ALL LANDSCAPE AREAS ARE WITHIN +/-0.1' OF FINISH GRADE. SEE SPECIFICATIONS FOR MORE DETAILED INSTRUCTION ON TURF AREA AND PLANTING BED PREPARATION.
   b. CONSTRUCT AND MAINTAIN FINISH GRADES AS SHOWN ON GRADING PLANS, AND CONSTRUCT AND MAINTAIN SLOPES AS RECOMMENDED BY THE GEOTECHNICAL REPORT. ALL LANDSCAPE AREAS SHALL HAVE POSITIVE DRAINAGE AWAY FROM STRUCTURES AT THE MINIMUM SLOPE SPECIFIED IN THE REPORT AND ON THE GRADING PLANS, AND AREAS OF POTENTIAL PONDING SHALL BE REGRADED TO BLEND IN WITH THE SURROUNDING GRADES AND ELIMINATE PONDING POTENTIAL.
   c. THE LANDSCAPE CONTRACTOR SHALL DETERMINE WHETHER OR NOT THE EXPORT OF ANY SOIL WILL BE NEEDED, TAKING INTO ACCOUNT THE ROUGH GRADE PROVIDED, THE AMOUNT OF SOIL AMENDMENTS TO BE ADDED (**BASED ON A SOIL TEST**, PER SPECIFICATIONS), AND THE FINISH GRADES TO BE ESTABLISHED.
   d. ENSURE THAT THE FINISH GRADE IN SHRUB AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 3" BELOW THE ADJACENT FINISH SURFACE, IN ORDER TO ALLOW FOR PROPER MULCH DEPTH. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
   e. ENSURE THAT THE FINISH GRADE IN TURF AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 1" BELOW THE FINISH SURFACE OF THE WALKS. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED



CONTROLLER NOTE

LOCATE CONTROLLER AT LOCATION SHOWN ON PLAN. VERIFY LOCATION IN FIELD WITH OWNER'S REPRESENTATIVE.

120 VAC POWER TO CONTROLLER LOCATION IS NOT WITHIN THE IRRIGATION CONTRACTOR'S SCOPE OF WORK, AND SHALL BE PROVIDED BY OTHERS. HOOK-UP OF CONTROLLER TO 120 VAC SHALL BE PERFORMED BY THE IRRIGATION CONTRACTOR. IRRIGATION CONTRACTOR SHALL COORDINATE LOCATION OF WIRE SLEEVE PENETRATIONS THROUGH BUILDING WITH OWNER AND GENERAL CONTRACTOR. STATION RUN ORDER SHALL MATCH PLANS.

NORTH

0' 10' 20' 40'

Scale 1" = 20'

NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING BAR SCALE ABOVE.

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IRRIGATION DISCLAIMER

THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, AND OTHER EQUIPMENT SHOWN WITHIN PAVED AREAS OR OUT OF PROPERTY BOUNDARIES ARE FOR DESIGN CLARIFICATION ONLY, AND SHALL BE INSTALLED IN PLANTING AREAS WITHIN THE PROPERTY LINES OR LIMITS INDICATED ON PLAN. THE IRRIGATION CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL ABOVE-GRADE IRRIGATION EQUIPMENT WITH THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION, OR IRRIGATION CONTRACTOR MAY BE REQURED TO MOVE SUCH ITEMS AT HIS OWN COST.

IRRIGATION CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL FINAL QUANTITIES PER DRAWINGS AND SPECIFICATIONS. ANY QUANTITIES PROVIDED ARE PROVIDED AS A CONVENIENCE TO THE CONTRACTOR ONLY AND SHALL NOT BE CONSIDERED ABSOLUTE.

AUTOMATIC DRAIN VALVES AND AIR RELIEF VALVES

INSTALL AUTOMATIC DRAIN VALVES AT THE LOW POINTS OF EACH LATERAL LINE (MIN. 2 PER VALVE) AS PER DETAIL ON SHEET LI-2. INSTALL AIR RELIEF VALVES ON DRIP SYSTEMS AT THE LOCATIONS SHOWN ON THE PLANS, AS PER DETAILS.

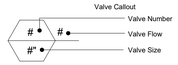
SLEEVING / WIRING NOTES:

IN ADDITION TO PROVIDING SLEEVES FOR ALL PIPING UNDER ROADWAYS AND WALKWAYS, THE IRRIGATION CONTRACTOR SHALL PROVIDE AND INSTALL SCH. 40 PVC SLEEVES FOR ALL CONTROLLER WIRES OCCURRING UNDER ALL ROADWAYS AND WALKWAYS. SLEEVES FOR CONTROLLER WIRES SHALL BE 2" DIA. AND CONTAIN NO MORE THAN 25 WIRES. **FOR PLAN CLARITY, ONLY SOME REPRESENTATIVE SLEEVES ARE SHOWN; SOME SLEEVES MAY NOT BE SHOWN.**

RECLAIMED WATER

PURPLE PIPE AND NON POTABLE EQUIPMENT, INCLUDING VALVE BOXES, VALVE HANDLES, DRIP TUBE, AND HEAD TOPS ARE REQUIRED ON ALL ZONES INCLUDING PESB SERIES VALVES

VALVE KEY



IRRIGATION LEGEND

SYMBOL	MANUFACTURER/MODEL
	RAIN BIRD R-VAN-STRIP 1806-SAM-P45 ,TURF ROTARY, 5'X15' (LCS AND RCS), 5'X30' (SST) HAND ADJUSTABLE MULTI-STREAM ROTARY W/ 1800 TURF SPRAY BODY ON 6.0" POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.
•	RAIN BIRD R-VAN14 1806-SAM-P45, TURF ROTARY, 8'-14' 45°-270° AND 360° HAND ADJUSTABLE MULTI-STREAM ROTARY W/1800 TURF SPRAY BODY ON 6.0" POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.
	RAINBIRD 1806-SAM-PRS SERIES POP UP SPRAY HEADS WITH ADAPTER AND RAINBIRD #1402 SERIES BUBBLER NOZZLES. (TWO PER TREE) SEE INSTALLATION NOTE #N-5 REGARDING TREE BUBBLER LATERAL PIPE
	RAINBIRD XCZ-100-PRBR-COM / 150-PRB-COM SERIES AUTOMATIC DRIP VALVE ASSEMBLY WITH 40 PSI PRESSURE REGULATOR
2	XCZ-100-PRB-COM - 1" BALL VALVE WITH 1" PESB VALVE AND 1" PRESSURE REGULATING 40PSI QUICK-CHECK BASKET FILTER. 0.3GPM TO 20GPM.
	RAINBIRD PESB SERIES ELECTRIC REMOTE CONTROL, "TREE BUBBLER ZONE" VALVE SEE INSTALLATION NOTE #N-5 REGARDING TREE BUBBLER LATERAL PIPE
	RAINBIRD PESB SERIES 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION.
	AREA TO RECEIVE DRIPLINE (PURPLE) RAINBIRD XFS-CV-06-12 SERIES DRIP TUBE IN SHRUB BED INSTALLED AT 2" DEPTH
	PIPE TRANSITION POINT ABOVE GRADE PIPE TRANSITION POINT FROM PVC LATERAL TO DRIP TUBING WITH RISER TO ABOVE GRADE INSTALLATION.
	ZURN / WILKINS 375XLB SERIES REDUCED PRESSURE TYPE BACKFLOW PREVENTOR INSTALLED PER CITY CODE WITH SAME SIZE BRONZE BALL VALVE INSTALLED ON THE UP-STREAM SIDE. MOUNTED IN STRONGBOX SMOOTH TOUCH ENCLOSURE.
	LASCO "V" SERIES SCH. 80 PVC TRUE UNION BALL VALVE, MAINLINE SIZE
M	IRRIGATION RECLAIMED WATER METER AND TAP (BY OTHERS) SIZE AS NOTED ON THE PLAN
QC	RAINBIRD 33-DNP QUICK COUPLING VALVE WITH LOCKING PURPLE COVER AND 3/4" PVC BALL VALVE
C	RAINBIRD ESP12LXMEF2P SERIES AUTOMATIC WALL MOUNT CONTROLLER WITH ONE ESPLXMSM12 STATION MODULE
R	RAINBIRD WR2-RFC RAIN / FREEZE SENSOR - CONFIRM SENSOR LOCATION WITH OWNERS REPRESENTATIVE
	1" MASTER VALVE MODEL # 100-EFB-CP WITH RAINBIRD FLOW SENSOR MODEL #FS100P SERIES
	(PURPLE) IRRIGATION LATERAL LINE: CLASS 200 PVC
— — —	(PURPLE) IRRIGATION MAINLINE: SCHEDULE 40 PVC
= = = = = = = =	IRRIGATION SLEEVES, SCH. 40 PVC, MIN. TWICE SIZE OF PIPE TO BE INSERTED

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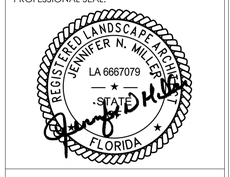
OWNER LOGO:

OWNER / PROJECT:

COVENANT GROUP LLC.
WINTER GARDEN
SHELL BUILDING
14134 W. COLONIAL DRIVE,
WINTER GARDEN, FLORIDA 34787

PROFESSIONAL SEAL:



MARK	DATE	DESCRIPTION
1	9/26/2025	SITE PLAN CHANGES
2	11/24/2025	CITY COMMENTS

ISSUE DATE: JULY 18, 2025

IRRIGATION PLAN

PROJECT NO.	2025-12.00
DRAWN BY	JNM
CHECKED BY	MNB

LI-1

Scale As indicated

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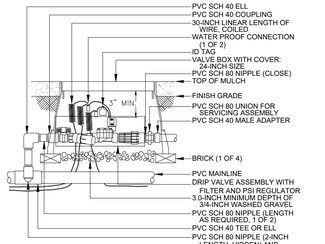
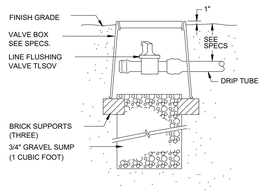
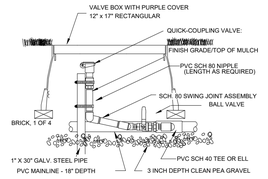


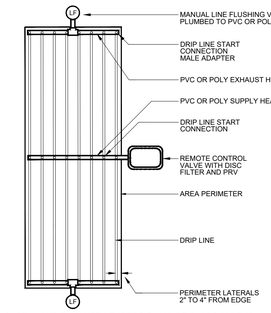
CONTROL ZONE KIT
N.T.S.



MANUAL LINE FLUSH VALVE
N.T.S.



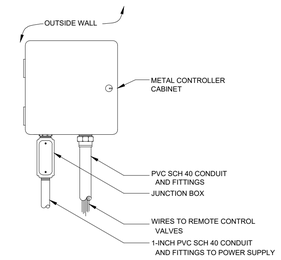
QUICK COUPLER VALVE WITH PVC BALL VALVE
N.T.S.



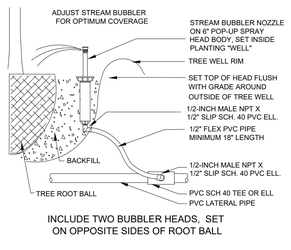
SUPPLY AND EXHAUST HEADERS SHALL BE CLASS 200 PVC PIPE, OF THE SAME DIAMETER AS THE ZONE VALVE SIZE.

USE DRIP TUBE FOR SUPPLY AND EXHAUST HEADERS ON GRIDS WITH FLOW SMALLER THAN 5 GPM ONLY.

DRIP CENTER FEED LAYOUT
N.T.S.

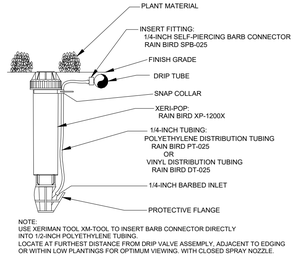


WALL MOUNT CONTROLLER
N.T.S.



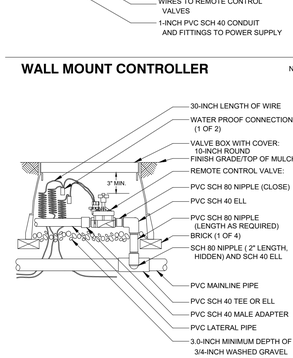
INCLUDE TWO BUBBLER HEADS, SET ON OPPOSITE SIDES OF ROOT BALL

TREE BUBBLER
N.T.S.

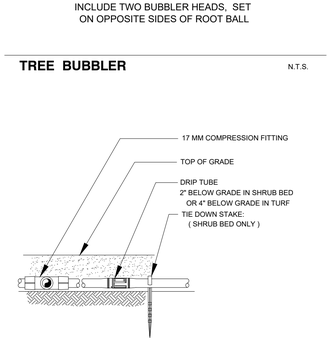


USE DRIP TUBE FOR SUPPLY AND EXHAUST HEADERS ON GRIDS WITH FLOW SMALLER THAN 5 GPM ONLY.

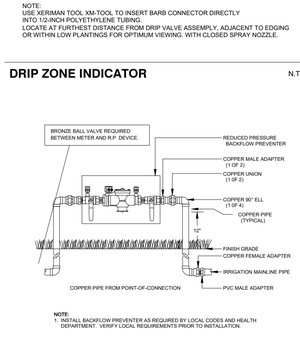
DRIP ISLAND LAYOUT
N.T.S.



REMOTE CONTROL VALVE
N.T.S.

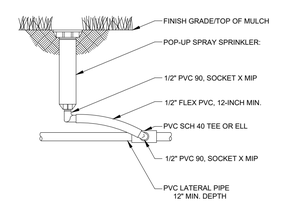


DRIP TUBE
N.T.S.

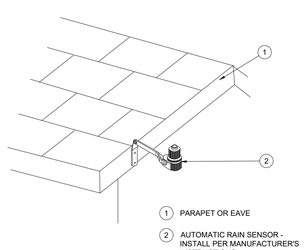


NOTE
1. INSTALL BACKFLOW PREVENTER AS REQUIRED BY LOCAL CODES AND HEALTH DEPARTMENT. VERIFY LOCAL REQUIREMENTS PRIOR TO INSTALLATION.

RP DEVICE
N.T.S.



POP-UP SPRAY HEAD
N.T.S.

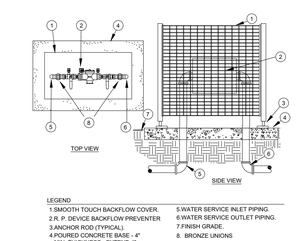


1. PARAPET OR EAVE
2. AUTOMATIC RAIN SENSOR - INSTALL PER MANUFACTURER'S INSTRUCTIONS

RAIN SENSOR, ROOF MOUNT
N.T.S.

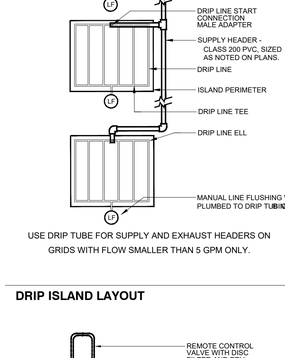
NOTE:
USE XERIMAN TOOL XM-TOOL TO INSERT BARB CONNECTOR DIRECTLY INTO 1/2-INCH POLYETHYLENE TUBING.
LOCATE AT FURTHEST DISTANCE FROM DRIP VALVE ASSEMBLY, ADJACENT TO EDGING OR WITHIN LOW PLANTINGS FOR OPTIMUM VIEWING. WITH CLOSED SPRAY NOZZLE.

DRIP ZONE INDICATOR
N.T.S.



LEGEND
1.SMOOTH TOUCH BACKFLOW COVER.
2.R. P. DEVICE BACKFLOW PREVENTER
3.ANCHOR ROD (TYPICAL)
4.POURED CONCRETE BASE - 4" MIN. THICKNESS - EXTEND 4" BEYOND OUTSIDE DIMENSIONS OF ENCLOSURE.
5.WATER SERVICE INLET PIPING.
6.WATER SERVICE OUTLET PIPING.
7.FINISH GRADE.
8. BRONZE UNIONS

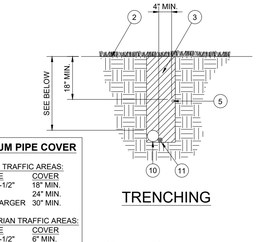
RP DEVICE WITH ENCLOSURE
N.T.S.



SUPPLY AND EXHAUST HEADERS SHALL BE CLASS 200 PVC PIPE, OF THE SAME DIAMETER AS THE ZONE VALVE SIZE.

USE DRIP TUBE FOR SUPPLY AND EXHAUST HEADERS ON GRIDS WITH FLOW SMALLER THAN 5 GPM ONLY.

DRIP END FEED LAYOUT
N.T.S.



MINIMUM PIPE COVER

VEHICLE TRAFFIC AREAS:

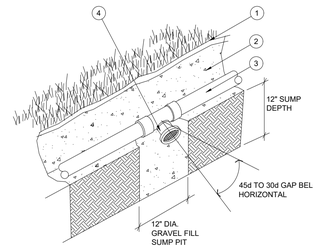
PIPE SIZE	COVER
1/2" TO 2-1/2"	18" MIN.
3" TO 5"	24" MIN.
6" AND LARGER	30" MIN.

PEDESTRIAN TRAFFIC AREAS:

PIPE SIZE	COVER
1/2" TO 1-1/2"	6" MIN.
2" TO 3"	12" MIN.
4" TO 6"	18" MIN.
6" AND LARGER	24" MIN.

1. PAVEMENT SURFACE
2. FINISH GRADE
3. TRENCH BACKFILL
4. LOCATOR WIRE W/BURIED CAUTION TAPE
5. PVC IRRIGATION LATERAL
6. SAND BACKFILL
7. SCH. 40 PVC LATERAL SLEEVE - SEE PLANS FOR SIZE
8. SCH. 40 PVC WIRE SLEEVE FOR CONTROL WIRES, MIN. 2" DIA.
9. SCH. 40 PVC MAINLINE SLEEVE - SEE PLANS FOR SIZE
10. PVC IRRIGATION MAINLINE
11. CONTROL WIRES - TAPE TO MAINLINE AT 10' INTERVALS
12. PVC CAP, SOLVENT WELDED

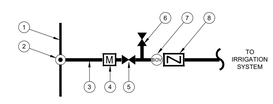
PIPE AND SLEEVE INSTALLATION
N.T.S.



NOTE:
AUTOMATIC VALVES ARE TO BE LOCATED AT LOW POINTS OF LATERAL LINES. LOCATE END DRAIN VALVE 12" UPSTREAM FROM LAST HEAD.

1. FINISH GRADE
2. PIPE TRENCH
3. LATERAL LINE PIPE
4. AUTOMATIC DRAIN VALVE

AUTOMATIC DRAIN VALVE
N.T.S.



1. CITY MAINLINE
2. TAP
3. SERVICE LINE
4. WATER METER
5. ISOLATION VALVE (PER PLAN)
6. MANUAL DRAIN VALVE (BALL VALVE)
7. BLOW OFF VALVE (BOV)
8. BACKFLOW DEVICE (WHERE SHOWN)

WINTERIZATION PROCEDURE:
1. TURN OFF EITHER THE METER AND ISOLATION VALVE (DEDICATED IRRIGATION METER) OR ISOLATION VALVE (DOMESTIC TAP).
2. OPEN ONE CONTROL VALVE TO RELIEVE PRESSURE
3. SLOWLY OPEN MANUAL DRAIN VALVE.
4. REPEAT PROCEDURE FOR ALL MANUAL DRAIN VALVES ALONG IRRIGATION MAINLINE.
5. CLOSE MANUAL DRAIN VALVES AND BLOW OUT REMAINING WATER FROM THE BLOWOUT VALVE. SLOWLY INCREASE AIR PRESSURE, NOT TO EXCEED 80 PSI. DO NOT BLOWOUT SYSTEM FROM BACKFLOW. BLOWOUT SYSTEM TWICE BUT NOT TO EXCEED AT MORE THAN 2 MIN. INTERVALS.

WATER TAP DIAGRAM
N.T.S.

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OWNER / PROJECT:

COVENANT GROUP LLC.
WINTER GARDEN
SHELL BUILDING
14134 W. COLONIAL DRIVE,
WINTER GARDEN, FLORIDA 34787

PROFESSIONAL SEAL:

REGISTERED LANDSCAPE ARCHITECT
JENNIFER N. MILLER
LA 6667079
STATE OF FLORIDA

MARK	DATE	DESCRIPTION
1	9/26/2025	SITE PLAN CHANGES
2	11/24/2025	CITY COMMENTS

ISSUE DATE: JULY 18, 2025

IRRIGATION DETAILS

PROJECT NO.	2025-12.00
DRAWN BY	JNM
CHECKED BY	MNB

LI-2

Scale: As indicated

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IRRIGATION SPECIFICATIONS

GENERAL

A. QUALIFICATIONS OF IRRIGATION CONTRACTOR
   1. ALL WORK SHOWN ON THESE PLANS SHALL BE PERFORMED BY A SINGLE IRRIGATION CONTRACTING FIRM SPECIALIZING IN IRRIGATION SYSTEMS. SEE THE IRRIGATION PLAN FOR SPECIFIC EQUIPMENT AND SYSTEM LAYOUT.
   2. THE IRRIGATION CONTRACTOR MUST HAVE ON ITS STAFF A LICENSED IRRIGATION INSTALLER, AS REGULATED BY THE APPROPRIATE LOCAL JURISDICTION. A LICENSED IRRIGATION INSTALLER SHALL BE PRESENT AT THE PROJECT SITE AT ALL TIMES AS WORK IS IN PROGRESS. THE OWNER MAY DEMAND THAT WORK STOP UNTIL THE CONTRACTOR PROVIDES FOR A LICENSED IRRIGATION INSTALLER TO BE PRESENT AT THE PROJECT SITE AND SUPERVISING ALL IRRIGATION WORK.
   3. A LIST OF SUCCESSFULLY COMPLETED PROJECTS OF THIS TYPE, SIZE AND NATURE MAY BE REQUESTED BY THE OWNER FOR FURTHER QUALIFICATION MEASURES.
B. SCOPE OF WORK
   1. WORK COVERED BY THESE SECTIONS INCLUDES THE FURNISHING AND PAYMENT OF ALL MATERIALS, LABOR, SERVICES, EQUIPMENT, LICENSES, TAXES, FEES, AND ANY OTHER ITEMS THAT ARE NECESSARY FOR THE EXECUTION, INSTALLATION AND COMPLETION OF ALL WORK, SPECIFIED HEREIN AND/OR SHOWN ON THE IRRIGATION PLANS, NOTES, AND DETAILS.
   2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER SUCH WORK, INCLUDING ALL INSPECTIONS AND PERMITS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES IN SUPPLY, TRANSPORTATION AND INSTALLATION OF MATERIALS. IN CASE OF CONFLICT BETWEEN THESE PLANS AND LOCAL AND/OR STATE CODES, CODES SHALL PREVAIL.
   3. THE INTENT OF THE IRRIGATION SYSTEM IS TO PROVIDE 100% COVERAGE OF ALL LANDSCAPE AREAS. THE IRRIGATION PLAN IS GENERALLY DIAGRAMMATIC; COORDINATE IRRIGATION INSTALLATION WITH UTILITY INSTALLATIONS. ACTUAL LOCATION OF CONTROLLER, BACKFLOW DEVICE, PIPING, VALVES, SPRAY HEADS, DRIP IRRIGATION, AND RELATED EQUIPMENT MAY NEED TO BE ADJUSTED BASED ON ACTUAL SITE CONDITIONS.
   4. FOR CLARITY PURPOSES, SOME IRRIGATION LINES AND EQUIPMENT ARE SHOWN IN HARDSCAPE AREAS WITHOUT ACCESS SLEEVES; THESE LINES SHALL BE INSTALLED IN A COMMON TRENCH OR AT THE BACK OF CURB IN LANDSCAPE AREAS. MINOR FIELD ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.

PRODUCTS

A. ALL MATERIALS SHALL BE NEW AND WITHOUT FLAWS OR DEFECTS OF ANY TYPE AND SHALL BE THE BEST OF THEIR CLASS AND KIND. ALL MATERIALS SHALL HAVE A MINIMUM GUARANTEE OF ONE YEAR AGAINST MATERIAL DEFECTS OR DEFECTIVE WORKMANSHIP. ALL MATERIALS SHALL BE OF THE BRANDS AND TYPES NOTED ON THE DRAWINGS OR AS SPECIFIED HEREIN, OR APPROVED EQUAL. THE CONTRACTOR MUST FIRST OBTAIN APPROVAL FROM THE IRRIGATION DESIGNER FOR AN 'APPROVED EQUAL' BEFORE INSTALLING SUCH MATERIALS IN THE FIELD, OR THE CONTRACTOR MAY BE REQUIRED TO REPLACE SUCH MATERIALS AT HIS OWN COST.
B. BACKFLOW PREVENTION DEVICES SHALL BE OF THE SIZE AND TYPE INDICATED ON THE DRAWINGS. INSTALL BACKFLOW PREVENTION UNITS IN ACCORDANCE WITH IRRIGATION CONSTRUCTION DETAILS AND ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES.
C. PIPING
   1. PRESSURE SUPPLY LINES, DOWNSTREAM OF THE POINT-OF-CONNECTION:
      a. SCHEDULE 40 PVC FOR ALL PIPE 1-1/2" OR LESS
      b. CLASS 315 PVC FOR ALL PIPE 2" TO 2-1/2"
      c. CLASS 200 PVC, GASKETED, FOR ALL PIPE 3" AND LARGER
   2. SLEEVING AND NON-PRESSURE LATERAL LINES (DOWNSTREAM FROM VALVES): CLASS 200 PVC
   3. FITTINGS: SCH. 40 PVC, EXCEPT AS NOTED OTHERWISE.
D. VALVES AND DRIP VALVE ASSEMBLIES: TYPE AND SIZE AS NOTED ON PLANS. EACH VALVE SHALL BEAR A PRE-MANUFACTURED, NUMBERED WATERPROOF TAG BEARING A NUMBER CORRESPONDING TO ITS VALVE SEQUENCE OF OPERATION ON THE CONTROLLER. THE OPERATION SEQUENCE SHALL MATCH THAT AS SHOWN ON THE PLANS.
E. QUICK COUPLERS, BALL VALVES, AND GATE VALVES: TYPE AND SIZE PER PLANS.
F. VALVE BOXES: TYPE AND SIZE AS NOTED ON DETAILS. ALL VALVES BOXES SHALL BE LOCKING BOLT-DOWN TYPE, FURNISHED WITH LIDS AND BOLTS. BOXES SHALL BE OF A SIZE TO CONTAIN THE ENTIRE VALVE AND/OR VALVE ASSEMBLY. THE VALVE BOX LID SHALL HAVE THE VALVE STATION NUMBER HEAT-BRANDED INTO THE LID WITH 2" HIGH LETTERS.
G. FIXED SPRAY HEADS AND ROTORS: PLASTIC BODY POP-UP, WITH A REMOVABLE PLASTIC SPRAY NOZZLE. EXACT TYPE, MODEL, AND NOZZLE SHALL BE AS INDICATED ON PLANS.
H. INTEGRAL EMITTER DRIP TUBING: TUBING MODEL AND FLOW RATE AS NOTED ON PLANS, WITH INTEGRAL EMITTERS WELDED TO THE INSIDE WALL OF THE TUBING AS AN INTEGRAL PART OF THE TUBING ASSEMBLY.
I. AUTOMATIC CONTROLLER: TYPE AND MODEL PER PLANS. PROVIDE VANDAL-PROOF ENCLOSURE FOR ALL EXTERIOR INSTALLATIONS. PROVIDE LINE-VOLTAGE DISCONNECT SWITCH WITH GROUND FAULT PROTECTION.
J. 24 VOLT VALVE WIRE SHALL BE A MINIMUM OF #14 GAUGE, U.F. APPROVED FOR DIRECT BURIAL, SINGLE CONDUCTOR IRRIGATION WIRE. EACH CONTROLLER SHALL HAVE A DIFFERENT COLOR STATION AND COMMON WIRE.
   1. STATION WIRE - ANY COLOR EXCEPT WHITE OR BLUE
   2. COMMON WIRE - WHITE
   3. EXTRA COMMON WIRES - BLUE
K. WIRE SPLICES SHALL BE ENCASED IN A WATERPROOF COMPOUND OR GEL. ALL FIELD SPLICES SHALL BE LOCATED IN A 6 INCH ROUND VALVE BOX.
L. RAIN SENSOR: TYPE AND MODEL PER PLANS.

METHODS

A. THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, AND OTHER EQUIPMENT SHOWN WITHIN PAVED AREAS OR OUT OF PROPERTY BOUNDARIES ARE FOR DESIGN CLARIFICATION ONLY, AND SHALL BE INSTALLED IN PLANTING AREAS WITHIN THE PROPERTY LINES OR LIMITS INDICATED ON PLAN. THE IRRIGATION CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL ABOVE-GRADE IRRIGATION EQUIPMENT WITH THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION, OR IRRIGATION CONTRACTOR MAY BE REQUIRED TO MOVE SUCH ITEMS AT HIS OWN COST. ENSURE FIELD COORDINATION IS MADE EARLY ON IN THE CONSTRUCTION PHASE SO PLACEMENT LOCATION IS CORRECT.
B. THE IRRIGATION CONTRACTOR SHALL MEET WITH THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK, AND SHALL OBTAIN ALL ENGINEERING, LANDSCAPE, AND OTHER APPLICABLE PLANS & DOCUMENTS. THE CONTRACTOR SHALL THOROUGHLY REVIEW THE PLANS AND REPORT ANY CONFLICTS OR DISCREPANCIES TO THE LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE IMMEDIATELY.
C. THE IRRIGATION CONTRACTOR SHALL NOT WILFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTIONS, GRADES OR DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE IRRIGATION DESIGNER. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS AND NECESSARY COSTS.
D. THE IRRIGATION CONTRACTOR SHALL PAY ANY AND ALL FEES AND PERMITS ASSOCIATED WITH THE INSTALLATION OF THE IRRIGATION SYSTEM.
E. AT LEAST SEVEN DAYS BEFORE BEGINNING WORK, CONFIRM THE STATIC WATER PRESSURE IS AT LEAST 65 PSI. IF STATIC WATER PRESSURE IS OUTSIDE OF THE STATED RANGE, DO NOT PROCEED WITHOUT FIRST NOTIFYING THE IRRIGATION DESIGNER AND OWNER IN WRITING, AND OBTAINING SUBSEQUENT DIRECTION FOR CORRECTIONAL MEASURES. SHOULD THE IRRIGATION CONTRACTOR CHOOSE TO BEGIN THE INSTALLATION WITHOUT SUCH NOTIFICATION, THE IRRIGATION CONTRACTOR WILL ASSUME THE RESPONSIBILITY FOR ALL COSTS INCURRED TO ENSURE THE SYSTEM IS WORKING PROPERLY. NO CHANGE ORDERS WILL BE AUTHORIZED IN SUCH CIRCUMSTANCES.
F. THE IRRIGATION CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITY LINES (WATER, SEWER, ELECTRICAL, TELEPHONE, GAS, CABLE, TELEVISION, ETC.) PRIOR TO THE START OF ANY WORK. THE CONTRACTOR SHALL BE FAMILIAR WITH ALL GRADE DIFFERENCES, LOCATIONS OF WALLS, STRUCTURES AND UTILITIES.
G. COORDINATE WITH THE OWNER THE PROPOSED LOCATIONS OF THE AUTOMATIC CONTROLLER AND ANY REQUIRED SLEEVES THROUGH THE BUILDING FOR CONTROL WIRES.
H. TRENCHING NEAR EXISTING TREES:
   1. CONTRACTOR SHALL NOT DISTURB ROOTS 1-1/2" AND LARGER IN DIAMETER WITHIN THE CRITICAL ROOT ZONE (CRZ) OF EXISTING TREES, AND SHALL EXERCISE ALL POSSIBLE CARE AND PRECAUTIONS TO AVOID INJURY TO TREE ROOTS, TRUNKS, AND BRANCHES. THE CRZ IS DEFINED AS A CIRCULAR AREA EXTENDING OUTWARD FROM THE TREE TRUNK, WITH A RADIUS EQUAL TO 1' FOR EVERY 1" OF TRUNK DIAMETER-AT-BREAST-HEIGHT (4.5' ABOVE THE AVERAGE GRADE AT THE TRUNK).
   2. ALL EXCAVATION WITHIN THE CRZ SHALL BE PERFORMED USING HAND TOOLS. NO MACHINE EXCAVATION OR TRENCHING OF ANY KIND SHALL BE ALLOWED WITHIN THE CRZ.
   3. ALTER ALIGNMENT OF PIPE TO AVOID TREE ROOTS 1-1/2" AND LARGER IN DIAMETER. WHERE TREE ROOTS 1-1/2" AND LARGER IN DIAMETER ARE ENCOUNTERED IN THE FIELD, TUNNEL UNDER SUCH ROOTS. WRAP EXPOSED ROOTS WITH SEVERAL LAYERS OF BURLAP AND KEEP MOIST. CLOSE ALL TRENCHES WITHIN THE CANOPY DRIP LINES WITHIN 24 HOURS.
   4. ALL SEVERED ROOTS SHALL BE HAND PRUNED WITH SHARP TOOLS AND ALLOWED TO AIR-DRY. DO NOT USE ANY SORT OF SEALERS OR WOUND PAINTS.
I. BACKFILL
   1. ALL BACKFILL MATERIAL SHALL BE SUBJECT TO APPROVAL BY THE OWNER. BACKFILL MATERIAL SHALL BE FREE FROM RUBBISH, ROCK LARGER THAN 1", LARGE STONES, BRUSH, SOD, FROZEN MATERIAL OR OTHER UNSUITABLE SUBSTANCES THAT MAY DAMAGE PIPE DURING THE BACKFILLING OPERATIONS. SEPARATE OUT ROCKS LARGER THAN 1 INCH IN ANY DIRECTION FROM EXCAVATED MATERIAL, AND REMOVE FROM AREAS TO RECEIVE LANDSCAPING. COVER FOR BOTH TOP AND SIDES OF PIPE SHALL BE A MINIMUM OF 2 INCHES OF ROCK-FREE SOIL, SAND, OR OTHER APPROVED MATERIAL.
   2. IN THE EVENT THAT THE MATERIAL FROM THE EXCAVATION OR TRENCHING IS FOUND TO BE UNSUITABLE FOR USE IN BACKFILL, IT SHALL BE REMOVED FROM THE SITE AND PROPERLY AND LEGALLY DISPOSED OF BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL THEN PURCHASE AND FURNISH SUITABLE BACKFILL MATERIAL CONSISTING OF EARTH, LOAM, SANDY CLAY, SAND OR OTHER APPROVED MATERIALS FREE OF DEBRIS.
J. BACKFLOW PREVENTER INSTALLATION: CONTRACTOR SHALL MAKE CONNECTIONS TO EXISTING WATER SOURCES AT LOCATION SHOWN ON PLANS AND AS APPROVED BY THE OWNER, AND SHALL MAKE ANY MINOR CHANGES IN LOCATION AS MAY BE NECESSARY DUE TO ACTUAL SITE CONDITIONS. BACKFLOW PREVENTER HEIGHT SHALL BE AS PER LOCAL CODES AND IRRIGATION DETAILS. INSTALL A BRASS BALL VALVE IMMEDIATELY UPSTREAM OF THE BACKFLOW DEVICE TO SERVE AS AN ISOLATION VALVE. TO EVERY EXTENT POSSIBLE, INSTALL BACKFLOW PREVENTER IN A LOCATION SCREENED FROM PUBLIC VIEW (SUCH AS BEHIND A SHRUB ROW).
K. PIPING:
   1. PIPE SIZE SHALL CONFORM TO THOSE SHOWN ON THE DRAWINGS. NO SUBSTITUTIONS OF SMALLER PIPE SIZES SHALL BE PERMITTED, BUT SUBSTITUTIONS FOR LARGER SIZES MAY BE APPROVED.
   2. MAINLINE PIPE AND WIRES SHALL BE INSTALLED WITH A MINIMUM COVER OF 18 INCHES (24" FOR MAINLINE 3"-5", AND 30" FOR MAINLINE 6" AND GREATER). LATERAL PIPE SHALL BE INSTALLED WITH A MINIMUM COVER OF 12 INCHES.
   3. ASSEMBLE ALL THREADED FITTINGS WITH TEFLON TAPE, WHICH SHALL BE APPLIED TO MALE THREADS ONLY.
   4. ALL SOLVENT-WELD CONNECTIONS SHALL BE MADE WITH APPROVED SOLVENT-WELD PRIMER AND GLUE.
   5. PIPE SHALL BE INSTALLED WITH A MINIMUM OF 4" HORIZONTAL CLEARANCE FROM ANY OTHER PIPE AND 2" VERTICAL CLEARANCE FROM ANY PIPES THAT CROSS OVER OR UNDER.
L. VALVES
   1. VALVES SHALL BE INSTALLED PER MANUFACTURER'S DIRECTIONS AND THE IRRIGATION DETAILS.
   2. VALVE BOXES SHALL BE INSTALLED FLUSH WITH THE GRADE, WITH CLEAN PEA GRAVEL LOCATED BELOW THE VALVE AS NOTED ON THE DETAILS. LOCATE BOXES WITHIN 12 TO 24" OF SIDEWALKS OR LANDSCAPE EDGES, WITH TOPS OF BOXES 1" ABOVE FINISH GRADE IN TURF, AND 3" ABOVE FINISH GRADE IN SHRUB AREAS (TO AVOID BEING COVERED BY MULCH).
   3. EACH VALVE BOX COVER SHALL BE HEAT-BRANDED WITH THE CONTROLLER STATION NUMBER.
   4. DO NOT INSTALL MORE THAN TWO VALVES IN A JUMBO BOX.
M. DRIP IRRIGATION EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S DIRECTIONS AND THE IRRIGATION DETAILS.
   1. SUBSURFACE DRIP LINES SHALL BE BURIED NO MORE THAN 2" BELOW FINISH GRADE.
   2. DRIP LINES MOUNTED ON GRADE SHALL BE LOCATED BENEATH LANDSCAPE FABRIC, AND SECURED IN PLACE WITH WIRE STAPLES AT A MAXIMUM OF 24'-36" ON CENTER.
N. SPRAY, ROTOR, AND BUBBLER HEADS:
   1. ALL SPRAY AND ROTOR HEAD LOCATIONS SHALL BE STAKED, FLAGGED AND/OR OTHERWISE CLEARLY MARKED ON THE GROUND PRIOR TO INSTALLATION. SPRINKLER HEAD STAKING SHALL BE INSPECTED AND APPROVED BY THE OWNER'S REPRESENTATIVE BEFORE INSTALLATION.
   2. ALL SPRAY HEADS SHALL BE CONNECTED WITH A 12 INCH MINIMUM LENGTH OF ½ INCH FLEX PVC. THE FLEX PVC SHALL BE SOLVENT WELDED TO SCHEDULE 40 PVC FITTINGS WITH WELD-ON #795 SOLVENT AND #P-70 PRIMER. ALL ROTORS SHALL BE CONNECTED TO LATERAL LINES WITH PRE-MANUFACTURED SWING JOINTS.
   3. ALL ROTOR, SPRAY AND BUBBLER HEADS SHALL BE SET PERPENDICULAR AND FLUSH TO FINISH GRADE AND WITH A CLEARANCE OF FOUR INCHES (MINIMUM) FROM THE EDGE OF ANY BUILDINGS, WALLS, BOULDERS, AND HARDSCAPE, WITH A CLEARANCE OF TWELVE INCHES (MINIMUM) FROM BUILDINGS, UNLESS OTHERWISE SPECIFIED.
   4. ALL ROTOR, SPRAY AND BUBBLER HEADS AND VALVES SHALL BE FLUSHED AND ADJUSTED FOR OPTIMUM COVERAGE WITH MINIMUM OVERSPRAY ON WALKS, STREETS, WALLS, ETC.
   5. LATERAL PIPE TO TREE STREAM BUBBLER HEADS IS OMITTED FOR GRAPHIC CLARITY. CONNECT TREE BUBBLER HEADS TO VALVES AS SHOWN WITH CLASS 200 PVC PIPE SIZED TO ALLOW A MAXIMUM FLOW VELOCITY OF 5 FEET PER SECOND
O. AUTOMATIC CONTROLLER:
   1. INSTALL THE CONTROLLER AT THE LOCATION INDICATED BY THE OWNER. INSTALL CONTROLLER WITH A BACKUP BATTERY AS RECOMMENDED BY THE MANUFACTURER.
   2. THE IRRIGATION CONTRACTOR SHALL COORDINATE 120 V.A.C. ELECTRICAL POWER TO CONTROLLER AND DEDICATE ONE (1) 20-AMP BREAKER FOR EACH CONTROLLER. IT SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO MAKE THE FINAL HOOK-UP FROM THE ELECTRICAL SOURCE TO THE CONTROLLER UNIT ONLY.
   3. ALL VALVE CONTROL WIRE SHALL BE AWG 14 TYPE UF, 600 VOLT TEST, DIRECT BURIAL. NO SPLICES SHALL BE ALLOWED EXCEPT AT VALVES AND CONTROLLER. WHERE SPLICES MAY BE NECESSARY DUE TO EXCESSIVELY LONG WIRE RUNS, THE CONTRACTOR SHALL MAKE ALL SPLICES IN 6" ROUND VALVE BOXES WITH 3M'S "DBY-DIRECT BURIAL SPLICE KIT". THE CONTRACTOR SHALL LABEL ALL WIRES WITH WATERPROOF TAGS AND MARKERS AT ALL SPLICES AND VALVE MANIFOLDS, AND SHALL LEAVE A 24" COIL OF EXCESS WIRE AT EACH CONNECTION.
   4. PROVIDE #10 COMMON WIRE, DIRECT BURIAL, TO ALL REMOTE CONTROL VALVES.
   5. CONNECT ALL DIRECT BURIAL WIRES TO VALVES USING 3M'S "DBY-DIRECT BURIAL SPLICE KIT" (UNLESS OTHERWISE SPECIFIED).
   6. PROVIDE THREE ADDITIONAL IRRIGATION CONTROL WIRES ALONG EACH BRANCH OF MAINLINE FOR FUTURE EXPANSION. STUB ADDITIONAL CONTROL WIRES INTO BACK OF IRRIGATION CONTROLLERS.
   7. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL CONTROL WIRE SLEEVES AND PIPE SLEEVES UNDER PAVED AREAS PRIOR TO PAVING - SEE SLEEVING NOTES.
P. INSTALL THE RAIN SENSOR IN THE VICINITY OF THE CONTROLLER, AND COORDINATE LOCATION WITH THE OWNER. PROVIDE MINIMUM 5' CLEARANCE FROM OTHER OUTDOOR EQUIPMENT, TREE AND CLEAR OF ANY TREE CANOPY OR OTHER OVERHEAD OBSTRUCTIONS, AND ABOVE THE HEIGHT OF THE SPRINKLER COVERAGE. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO ENSURE THE RAIN SENSOR IS PLACED IN A LOCATION WHERE IT CAN RECEIVE ADEQUATE RAINFALL WITHOUT OBSTRUCTIONS. IF IT IS PLACED IN AN INADEQUATE LOCATION, THE IRRIGATION CONTRACTOR MAY BE REQUIRED TO RELOCATE IT AT NO ADDITIONAL COST TO THE OWNER.
Q. ALL IRRIGATION EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
R. QUALITY CONTROL
   1. PERFORM COVERAGE TESTS AFTER IRRIGATION SYSTEM IS COMPLETED, BUT PRIOR TO ANY PLANTING AND PEFFORM TESTING IN THE PRESENCE OF THE IRRIGATION DESIGNER AND THE CONSTRUCTION MANAGER.
   2. TEST SYSTEM TO ASSURE THAT ALL LAWN AND PLANTING AREAS ARE WATERED COMPLETELY AND UNIFORMLY.
   3. MAKE ALL NECESSARY ADJUSTMENTS TO PROVIDE COMPLETE COVERAGE, INCLUDING REALIGNMENT OF HEADS AND REPLACEMENT OF NOZZLES.
T. CLEAN UP
   1. DURING IRRIGATION EXCAVATION AND INSTALLATION, KEEP ALL PAVEMENT CLEAN AND ALL WORK AREAS IN A NEAT, ORDERLY CONDITION.
   2. DISPOSED LEGALLY OF ALL EXCAVATED MATERIALS OFF THE PROJECT SITE.
U. INSPECTION AND ACCEPTANCE
   1. UPON COMPLETION OF THE WORK, THE IRRIGATION CONTRACTOR SHALL PROVIDE THE SITE CLEAN, FREE OF DEBRIS AND TRASH, AND SUITABLE FOR USE AS INTENDED. THE IRRIGATION CONTRACTOR SHALL THEN REQUEST AN INSPECTION BY THE OWNER TO DETERMINE FINAL ACCEPTABILITY.
   2. WHEN THE INSPECTED WORK DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL REPLACE AND/OR REPAIR THE REJECTED WORK TO THE OWNER'S SATISFACTION WITHIN 24 HOURS.
   3. THE MAINTENANCE PERIOD WILL NOT COMMENCE UNTIL THE WORK HAS BEEN RE-INSPECTED BY THE OWNER AND FOUND TO BE ACCEPTABLE. AT THAT TIME, A WRITTEN NOTICE OF FINAL ACCEPTANCE WILL BE ISSUED BY THE OWNER, AND THE MAINTENANCE AND GUARANTEE PERIODS WILL COMMENCE.
   4. CONTROLLER CHART: THE IRRIGATION CONTRACTOR SHALL PROVIDE A 11" X 17" COLOR-CODED, LAMINATED COPY OF THE IRRIGATION LAYOUT AND PLACE IT IN THE CONTROLLER'S COVER. THE CONTROLLER CHART SHALL CLEARLY DELINEATE THE AREAS COVERED BY EACH VALVE, USING A SEPARATE COLOR FOR EACH ZONE.
   5. TURN THE FOLLOWING ITEMS IN TO THE OWNER UPON COMPLETION OF THE INSTALLATION:
      a. QUICK COUPLER KEYS (2)
      b. CONTROLLER MANUAL (1)
      c. CONTROLLER KEYS (2)
      d. A MINIMUM OF (2) COPIES OF RECORD DRAWINGS. A RECORD DRAWING IS A RECORD OF ALL CHANGES THAT OCCURRED IN THE FIELD AND THAT ARE DOCUMENTED THROUGH CHANGE ORDERS, ADDENDA, OR CONTRACTOR/CONSULTANT DRAWING MARKUPS.
V. REFER TO THE PLANTING SPECIFICATIONS FOR ADDITIONAL CONDITIONS OF FINAL ACCEPTANCE AND START OF THE MAINTENANCE PERIOD.
W. WARRANTY
   1. THE IRRIGATION SYSTEM SUPPLIED AND INSTALLED SHALL BE WARRANTED (LABOR AND MATERIALS) TO REMAIN OPERATIONAL FOR A PERIOD OF 12 MONTHS AFTER THE DATE OF FINAL ACCEPTANCE. DURING THIS PERIOD, THE CONTRACTOR SHALL ALSO REPAIR ANY SETTLEMENT OF THE IRRIGATION TRENCHES.
   2. BY THE END OF THE WARRANTY PERIOD, ANY IRRIGATION PART THAT IS EITHER NON-OPERATIONAL OR THAT IS OPERATING BELOW STANDARDS AS DETERMINED BY THE OWNER, SHALL BE REMOVED FROM THE SITE AND SHALL BE REPLACED. REPLACEMENTS SHALL BE OF THE SAME KIND AS SPECIFIED IN THE IRRIGATION LEGEND, AND SHALL BE INSTALLED AS ORIGINALLY SPECIFIED.
   3. IRRIGATION PARTS DAMAGED OR IMPAIRED DUE TO ACTS OF GOD, VANDALISM, AND/OR THE OWNER'S IMPROPER MAINTENANCE SHALL NOT BE COVERED BY THIS WARRANTY.
X. SHOULD THE PERMITTING JURISDICTION REQUIRE AN IRRIGATION AUDIT, THE IRRIGATION CONTRACTOR SHALL RETAIN THE SERVICES OF A THIRD-PARTY CERTIFIED LANDSCAPE IRRIGATION AUDITOR, AT NO ADDITIONAL COST TO THE OWNER.

IRRIGATION LEGEND

SYMBOL	MANUFACTURER/MODEL
	RAIN BIRD R-VAN-STRIP 1806-SAM-P45 ,TURF ROTARY, 5'X15' (LCS AND RCS), 5'X30' (SST) HAND ADJUSTABLE MULTI-STREAM ROTARY W/ 1800 TURF SPRAY BODY ON 6.0" POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.
	RAIN BIRD R-VAN14 1806-SAM-P45, TURF ROTARY, 8'-14' 45°-270° AND 360° HAND ADJUSTABLE MULTI-STREAM ROTARY W/1800 TURF SPRAY BODY ON 6.0" POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.
	RAINBIRD 1806-SAM-PRS SERIES POP UP SPRAY HEADS WITH ADAPTER AND RAINBIRD #1402 SERIES BUBBLER NOZZLES. (TWO PER TREE) SEE INSTALLATION NOTE #N-5 REGARDING TREE BUBBLER LATERAL PIPE
2	RAINBIRD XCZ-100-PRBR-COM / 150-PRB-COM SERIES AUTOMATIC DRIP VALVE ASSEMBLY WITH 40 PSI PRESSURE REGULATOR XCZ-100-PRB-COM - 1" BALL VALVE WITH 1" PESB VALVE AND 1" PRESSURE REGULATING 40PSI QUICK-CHECK BASKET FILTER. 0.3GPM TO 20GPM.
	RAINBIRD PESB SERIES ELECTRIC REMOTE CONTROL, "TREE BUBBLER ZONE" VALVE SEE INSTALLATION NOTE #N-5 REGARDING TREE BUBBLER LATERAL PIPE
	RAINBIRD PESB SERIES 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION.
	AREA TO RECEIVE DRIPLINE (PURPLE) RAINBIRD XFS-CV-06-12 SERIES DRIP TUBE IN SHRUB BED INSTALLED AT 2" DEPTH
	PIPE TRANSITION POINT ABOVE GRADE PIPE TRANSITION POINT FROM PVC LATERAL TO DRIP TUBING WITH RISER TO ABOVE GRADE INSTALLATION.
	ZURN / WILKINS 375XLB SERIES REDUCED PRESSURE TYPE BACKFLOW PREVENTOR INSTALLED PER CITY CODE WITH SAME SIZE BRONZE BALL VALVE INSTALLED ON THE UP-STREAM SIDE. MOUNTED IN STRONGBOX SMOOTH TOUCH ENCLOSURE.
	LASCO "V" SERIES SCH. 80 PVC TRUE UNION BALL VALVE, MAINLINE SIZE
M	IRRIGATION RECLAIMED WATER METER AND TAP (BY OTHERS) SIZE AS NOTED ON THE PLAN 2
GC	RAINBIRD 33-DNP QUICK COUPLING VALVE WITH LOCKING PURPLE COVER AND 3/4" PVC BALL VALVE
C	RAINBIRD ESP12LXMEF2P SERIES AUTOMATIC WALL MOUNT CONTROLLER WITH ONE ESPLXMSM12 STATION MODULE
R	RAINBIRD WR2-RFC RAIN / FREEZE SENSOR - CONFIRM SENSOR LOCATION WITH OWNERS REPRESENTATIVE
	1" MASTER VALVE MODEL # 100-EFB-CP WITH RAINBIRD FLOW SENSOR MODEL #FS100P SERIES
	(PURPLE) IRRIGATION LATERAL LINE: CLASS 200 PVC 2
	(PURPLE) IRRIGATION MAINLINE: SCHEDULE 40 PVC
	IRRIGATION SLEEVES, SCH. 40 PVC, MIN. TWICE SIZE OF PIPE TO BE INSERTED

IRRIGATION NOTE:

1. L.I.C. SHALL SELECT R-VAN SPRAY NOZZLES FOR "HEAD-TO-HEAD" COVERAGE, ADJUSTED FOR NO OVERSPRAY ONTO WALLS AND WALKS. NO OVERSPRAY INTO STREETS IS PERMITTED.
2. ALL PIPE TO BE SIZED SUCH THAT FLOWS WILL NOT EXCEED VELOCITY OF 5 FPS

WATER CONSERVATION

IRRIGATION WATER CONSERVATION SHALL BE ACCOMPLISHED THROUGH THE FOLLOWING EFFORTS:

1. SEPARATE TURF / TREE / SHRUB ZONES FOR SCHEDULING ADJUSTMENT
2. NO OVERSPRAY ONTO PAVEMENT PERMITTED
3. USE OF RAIN SENSOR SHUT OFF OVER-RIDE DEVICE

LATERAL PIPE SIZE CHART

LATERAL PIPE SHALL BE SIZED TO ALLOW A MAXIMUM FLOW VELOCITY OF FIVE FEET PER SECOND ACCORDING TO THE FOLLOWING CHART:

FLOW IN GPM	LATERAL PIPE SIZE
UP TO 5 GPM	3/4" CLASS 200
6 - 10 GPM	3/4" CLASS 200
11 - 15 GPM	1" CLASS 200
16 - 28 GPM	1 1/4" CLASS 200
29 - 35 GPM	1 1/2" CLASS 200
36 - 54 GPM	2" CLASS 200
55 - 81 GPM	2 1/2" CLASS 200
82 - 120 GPM	3" CLASS 200

RECLAIMED WATER 2

PURPLE PIPE AND NON POTABLE EQUIPMENT, INCLUDING VALVE BOXES, VALVE HANDLES, DRIP TUBE, AND HEAD TOPS ARE REQUIRED ON ALL ZONES INCLUDING PESB SERIES VALVES

VALVE KEY

CRITICAL ANALYSIS

P.O.C. NUMBER: 01
Water Source Information: Reclaimed Irrigation Meter, By Others 2

FLOW AVAILABLE
Water Meter Size: 1"
Flow Available: 30 gpm

PRESSURE AVAILABLE
Static Pressure at POC (est.): 68.00 psi
Elevation Change: NA
Service Line Size: NA
Length of Service Line: NA
Pressure Available: 65.00 psi

DESIGN ANALYSIS
Maximum Station Flow: 16.0 gpm
Flow Available at POC: 30.0 gpm
Residual Flow Available: 14.0 gpm

Critical Station: 6
Head Pressure Required: 35.0 psi
Lateral Loss: 3.5 psi
Loss through Valve: 2.9 psi
Pressure Req. at Critical Station: 41.2 psi
Loss for Main Line: 2.14 psi
Loss for Fittings and/or(Main Line): 0.25 psi
Loss for Master Valve: 2.10 psi
Loss for Backflow: 11.00 psi
Loss for Water Meter: 1.40 psi
Critical Station Pressure at POC: 58.09 psi
Pressure Available: 65.00 psi
Residual Pressure Available: 6.91 psi

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EXTERIOR FINISH SCHEDULE

COLOR	DESCRIPTION	COLOR (BASIS OF DESIGN)	COLOR	DESCRIPTION	COLOR (BASIS OF DESIGN)
	S-1 PAINTED STUCCO	SHERWIN-WILLIAMS "REALIST BEIGE" *SW 6078*		M-1 FIBER CEMENT SIDING	JAMES HARDIE PLANK LAP SIDING BEADED SELECT CEDARMILL, "*WATERING CAN*" (OR EQUAL)
	S-2 PAINTED STUCCO, ALTERNATE COLOR OPTION	SHERWIN-WILLIAMS "COMFORT GRAY" *SW 6205*		V-1 BRICK VENEER	PIONEER - J&N STONE, PATTERN 100 SERIES BRICK, ONYX; (OR EQUAL)
	S-3 TRIM AND ACCENTS	SHERWIN-WILLIAMS "HIGH REFLECTIVE WHITE" *SW 7757*		C-1 METAL CANOPY	MAPES LUMISHADE HANGER ROD FLAT SOFFIT, BLACK (OR EQUAL)

1 NORTH ELEVATION
1/8" = 1'-0"

2 WEST ELEVATION
1/8" = 1'-0"

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AA26002236

PROJECT NAME:
WINTER GARDEN SHELL BUILDING
14134 W. COLONIAL DRIVE,
WINTER GARDEN, FLORIDA 34787

DRAWING TITLE:
PRELIMINARY ELEVATIONS

DATE:
09/23/25

SHEET NO:
SD-2

EXTERIOR FINISH SCHEDULE

COLOR	DESCRIPTION	COLOR (BASIS OF DESIGN)
	S-1 PAINTED STUCCO	SHERWIN-WILLIAMS "REALIST BEIGE" *SW 6078*
	S-2 PAINTED STUCCO, ALTERNATE COLOR OPTION	SHERWIN-WILLIAMS "COMFORT GRAY" *SW 6205*
	S-3 TRIM AND ACCENTS	SHERWIN-WILLIAMS "HIGH REFLECTIVE WHITE" *SW 7757*

COLOR	DESCRIPTION	COLOR (BASIS OF DESIGN)
	M-1 FIBER CEMENT SIDING	JAMES HARDIE PLANK LAP SIDING BEADED SELECT CEDARMILL, "*WATERING CAN*" (OR EQUAL)
	V-1 BRICK VENEER	PIONEER - J&N STONE, PATTERN 100 SERIES BRICK, ONYX; (OR EQUAL)
	C-1 METAL CANOPY	MAPES LUMISHADE HANGER ROD FLAT SOFFIT, BLACK (OR EQUAL)

1 SOUTH ELEVATION
1/8" = 1'-0"

2 EAST ELEVATION
1/8" = 1'-0"

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WINTER GARDEN, FLORIDA 34787

DRAWING TITLE:
PRELIMINARY ELEVATIONS

DATE:
09/23/25

SHEET NO:
SD-3

CITY OF WINTER GARDEN

DEVELOPMENT REVIEW COMMITTEE

300 West Plant Street - Winter Garden, Florida 34787-3011
(407) 656-4111

M E M O R A N D U M

TO: KELLY CARSON, PLANNING DIRECTOR
FROM: DEVELOPMENT REVIEW COMMITTEE
DATE: JANUARY 23, 2026
SUBJECT: REVIEW OF MAJOR SITE PLAN – COVENANT GROUP
14134 W COLONIAL DRIVE

Pursuant to your request, we have reviewed the revised site plan stamped received by Planning 12/18/25 for compliance with the City's stormwater and site requirements. The property included in this project is part of the West Market master development and proposes a 2-tenant 5,000 s.f. commercial building on the 0.75 acre PCD zoned parcel. This was submitted in response to our review of 10/16/25 and DRC meeting of 11/05/25 where it was referred to staff review only.

ENGINEERING

We recommend approval of the site plan, subject to approval by all other departments and the following conditions and comments. Underlined comments shall be addressed prior to pre-con:

1. Planning Department shall review and comment on proposed use, parking count, setbacks, open space, landscaping, buffering, lighting and signage, including PCD Zoning and SR 50 Overlay requirements.

2. General Requirements (as noted):
    a. All gravity sanitary pipe and fittings shall be SDR 26.
    b. All compaction shall be 98% of the modified proctor maximum density (AASHTO T-180).
    c. As-built record drawings shall comply with City of Winter Garden requirements available on-line (note on plan).
    d. All Storm (≥12") and Sanitary lines (≥6") shall be inspected by CCTV prior to completion.
    e. Use City Standard Detail sheets for utilities and public works (see City website).
    f. If Thermoplastic pipe is used it shall meet all City material and installation requirements as specified in the City's Standards & Specifications including Class I bedding, HP polypropylene pipe (**not HDPE or N-12**), laser profiling, installation per ASTM D2321, etc. (see under on-line forms on website).
    g. All utilities shall be underground pursuant to Code (Sec. 18-33) including electrical power, cable, telephone, etc.

3. Sheet C4 – Utility Plan:
    a. Grease trap sizing shall be reviewed and approved by Building & Utility Departments.
    b. Final revisions to the Utility Plan shall show the revised reclaim water line to the irrigation meter as discussed with the Design Engineer.

4. Public Services Solid Waste Division shall approve dumpster location/alignment. All dumpsters shall be enclosed and shall provide **12'** minimum inside clearance (each way inside of bollards and gate hardware). The trash enclosure detail provided will also be reviewed by the Planning Division.

5. All irrigation on the site shall be designed to be supplied by reclaimed water; irrigation connection shall be to the reuse stub-out constructed with the master infrastructure as shown (that is served by a jumper to potable water until reclaimed is available). Irrigation lines shall be purple in color.

6. All on-site utilities shall be privately owned and maintained. 100% of all required water and sewer impact fees shall be paid prior to City execution of FDEP permits or issuance of site or building permits. Meter sizes shall be provided for review by the Utilities Department for verification of impact fees at time of Building Permit application. Final plans will not be approved for construction until utility impact fees have been paid and FDEP permits or exemptions have been issued.

7. Any new water, sewer, or irrigation connections are required to pay utility impact fees, to be paid prior to issuance of site or building permits or execution of FDEP permits. Two new water services are shown with a new sanitary lateral. The plans show a 2" potable water meter and a 1" irrigation meter, the impact fees are as follows:

2" Potable water meter	1 ea. @	$8,688.00 =	$8,688.00
Wastewater for 2" meter	1 ea. @	$14,136.00 =	$14,136.00
1" Irrigation Meter	1 ea. @	$2,715.00 =	$2,715.00
		TOTAL =	**$25,539.00**

(does not include connection/installation fee; check with Utility Billing to verify any pre-payments)

8. No trees may be planted over or within 5 feet of any utility lines. Only sod or shrubs may be planted over utility lines.

9. On-site lighting and along street frontages (if not existing) will be required pursuant to City Code, meeting dark skies requirements. A photometric plan has been provided for Planning Department review. Lighting fixtures shall be uniform for the entire shopping center.

10. Landscape or other improvements (walls, signs, etc.) shall not encroach into the required sight distance pursuant to FDOT requirements. The Design Engineer has provided certification that sight distance requirements are being met.

11. Minimum 5' wide concrete sidewalks shall be constructed along all street frontages pursuant to Code. Any damaged, broken or cracked sections (including existing curbs and pavement) shall be replaced prior to issuance of certificate of occupancy. Internal sidewalks shall connect to the public sidewalks in the right-of-way per ADA.

12. SJRWMD permit modification is acknowledged. Provide permits or exemptions from FDEP for water, wastewater and NPDES NOI as may be appropriate.

13. Any signs, screen walls or retaining walls shall require a separate permit from the Building Department.

PLANNING COMMENTS

14. Note: Although permitted separately, please be aware all signage shall adhere to Ordinance 20-30 (West Market PCD). Where the PCD is silent the applicant will follow City Code Chapter 102 – Signs.

STANDARD GENERAL CONDITIONS

15. The Owner is responsible for meeting all provisions of ADA and Florida Accessibility Code.

16. All work shall conform to City of Winter Garden standards and specifications.

17. Fencing, shall meet all City requirements for height, type, etc. Chain link fencing, if used, shall be vinyl coated per Code.

18. The City of Winter Garden will inspect private site improvements only to the extent that they connect to City owned/maintained systems (roadways, drainage, utilities, etc.). It is the responsibility of the Owner and Design Engineer to ensure that privately owned and maintained systems are constructed to the intended specifications. The City is not responsible for the operation and maintenance of privately owned systems, to include, but not be limited to, roadways, parking lots, drainage, stormwater ponds or on-site utilities.

19. The Contractor is responsible for the notification, location and protection of all utilities that may exist within the project limits.

20. No fill or runoff will be allowed to discharge onto adjacent properties; existing drainage patterns shall not be altered. The applicant should note that if approval is granted, the City of Winter Garden is not granting rights or easements for drainage from, or onto, property owned by others. Obtaining permission, easements or other approvals that may be required to drain onto private property is the Owner/Developer's responsibility. Should the flow of stormwater runoff from, or onto adjacent properties be unreasonable or cause problems, the City will not be responsible and any corrective measures required will be the responsibility of the Owner. Site construction shall adhere to the City of Winter Garden erosion and sediment control requirements as contained in Chapter 106 - Stormwater. If approval is granted by the City of Winter Garden, it does not waive any permits that may be required by federal, state, regional, county, municipal or other agencies that may have jurisdiction.

21. After final plan approval, a preconstruction meeting will be required prior to any commencement of construction. The applicant shall provide an erosion control and street lighting plan at the preconstruction meeting and shall pay all engineering review and inspection fees prior to construction. Inspection fees in the amount of **2.25%** of the cost of all site improvements shall be paid prior to issuance of the building permit.

Additional comments may be generated at subsequent reviews
Please review this information and contact our office if you have any questions. Thank you.

END OF MEMORANDUM

THE CITY OF WINTER GARDEN

CITY COMMISSION AGENDA ITEM

From: Kelly Carson, Planning Director

Via: City Manager, Jon C. Williams

Date: February 5, 2026 **Meeting Date:** February 12, 2026

Subject: 426 West Plant Street.
Crooked Can Brewery – Celtic Fest 2026
PARCEL ID# 23-22-27-2888-05-021

Issue: Special Event approval for Plant Street Market to close South Central Avenue from Plant Street to Smith Street to permit their annual event, Celtic Fest, to be held at the Plant Street Market and on South Central Avenue on March 13, 14, and 15, 2026.

Discussion:

The owner of the property is requesting approval to hold the annual Crooked Can Celtic Fest event on March 13, 14, and 15, 2026. The event is proposed to be from 4:00 PM to 10:00 PM on Friday, 12:00 PM to 10:00 PM on Saturday, and from 12:00 PM to 6:00 PM on Sunday. This event proposes to close South Central Avenue, have several tents with food, a stage with live music on South Central Avenue, and would allow the sale and consumption of alcohol on the closed street. This is the same request as previous years – no changes are proposed.

Recommended Action:

Staff recommends approval of the event with conditions outlined in the attachment.

Attachment(s)/References:

Permit Application
Conditions of Approval

WINTER GARDEN – SPECIAL EVENT
CONDITIONS OF APPROVAL

Event: Crooked Can – Celtic Fest 2026

Location: 426 West Plant Street
Crooked Can Brewery
PARCEL ID# 23-22-27-2888-05-021

Date of Event: Friday, March 13, 2026 4:00 PM to 10:00 PM
Saturday, March 14, 2026 12:00 PM to 10:00 PM
Sunday, March 15, 2026 12:00 PM to 6:00 PM

Conditions of Approval:

- The Celtic Fest events cannot begin until after 12:00 pm daily.
- All live music shall end by 9:00 PM daily.
- All alcohol sales and service within the temporary outdoor areas and public rights-of-way shall end by 10:00 PM.
- A sound check shall be done in coordination with adjacent resident Phil Baker prior to the event.
- A temporary accessible parking stall shall be located in front of the BurgerFi building to account for the loss of accessible parking along Central Ave.
- Only two locations of any outdoor sales of alcohol are allowed and the locations need to be approved by the City.
- No glass is allowed in the street, alcohol must be served in opaque cups.
- Barricade fencing shall contain signage at all entrances stating “no alcohol beyond this point”
- All landscaping shall be protected from pedestrian traffic. All damaged landscaping shall be replaced within one week of this event.
- Crooked Can shall hire three off-duty police officers to work at the event to ensure state and local laws are followed.
- No waivers from the noise ordinance are being granted as part of this approval, the event is subject to all conditions outlined in Chapter 38, Article IV of the City Code.
- The owner is responsible for supplying bathroom facilities to accommodate the guests.
- Parking – this event cannot impact downtown parking.
- 50% of the total tent area shall be dedicated to food and non-alcohol vendors.
- Certificate of Insurance shall be provided prior to the event.
- A $1,000.00 special event permit fee is required for this event.

Event Dates: 3/13 - 3/15/26.

RECEIVED
DEC 31
By CEF

COMMUNITY DEVELOPMENT DEPARTMENT
300 WEST PLANT STREET
WINTER GARDEN, FLORIDA 34787

P: 407.877.5136
F: 407.656.0839
WWW. CWGDN.COM

PZE2025-2266

OPEN-AIR SPECIAL EVENT PERMIT APPLICATION FOR PRIVATE PROPERTY

APPLICANT NAME: Cooked Can Brewing Company

ORGANIZATION/GROUP NAME: Cooked Can Brewing Company

NAME OF EVENT: Cooked Can Celtic Fest

BUSINESS ADDRESS: 426 west Plant Street

CITY: Winter Garden STATE: FL ZIP: 34787

BUSINESS PHONE: 407-267-2860 BUSINESS FACSIMILE:

EMAIL: alan@Crookedcan.com

MAILING ADDRESS
(IF DIFFERENT FROM ABOVE):

CITY: STATE: ZIP:

FEIN: 46-5093645 NON PROFIT ☐ CORPORATION ☐ INDIVIDUAL ☐

EVENT LOCATION: Plant Street & Central Avenue
(MAP MUST BE ATTACHED)

CITY: Winter Garden STATE: FL ZIP: 34787

TYPE OF EVENT	EVENT DETAILS	EVENT EQUIPMENT
☑ FESTIVAL	☐ ADMISSION CHARGE/TICKET SALES	☑ AMPLIFIED SPEAKING/MUSIC
☐ EXHIBIT(S)	☒ ALCOHOL SERVED	☑ PORTABLE RESTROOMS
☐ CARNIVAL/CIRCUS/FAIR	☒ ALCOHOL SALES	☐ SPORTS EQUIPMENT
☐ GENERAL MEETING	☐ FIREWORKS/PYROTECHNICS	☑ STAGE/PROPS/PRODUCTION
☐ PARADE	☒ FOOD VENDORS: # OF ____	☐ INFLATABLE DEVICES
☐ SPORTING EVENT/COMPETITION	☒ MERCHANDISE VENDORS: # OF ____	☐ DUMPSTERS/RECEPTACLES
☐ WEDDING/RECEPTION	☒ OPEN TO PUBLIC	☑ COOKING EQUIPMENT USED
☐ REVIVAL	☑ STREET / SIDEWALK CLOSURE	☐ GAS ☐ OPEN FLAME electric
☐ OTHER: (EXPLAIN)	☐ CITY WATER USED	☒ TEMPORARY EVENT SIGNAGE
	☐ ELECTRIC USED	# OF: 10
	☑ PREVIOUSLY HELD EVENT	SIZE(S): Small
	☐ OTHER: (EXPLAIN)	LOCATION: Central Ave
		☐ TENTS #OF: 6
		SIZE(S): See Attached
		☐ OTHER: (EXPLAIN)

Event Dates: 3/13-3/15/26

COMMUNITY DEVELOPMENT DEPARTMENT
300 WEST PLANT STREET
WINTER GARDEN, FLORIDA 34787

P: 407.877.5136
F: 407.656.0839
WWW. CWGDN.COM

PZE2025-0266

PLEASE PROVIDE A GENERAL DESCRIPTION OF THE EVENT THAT INCLUDES ALL FEATURES BEING PROPOSED TO TAKE PLACE. ELABORATE ON ANY OF THE ABOVE CHECKED ITEMS IF NECESSARY (USE BACK OF APPLICATION IF NECESSARY):

Repeat of previous event

DAYS AND HOURS OF EVENT:

START DATE: 3/13/2026 **END DATE:** 3/15/2026

EVENT HOURS:

SUN	MON	TUE	WED	THU	FRI	SAT
					4-10	12-10

ESTIMATED DAILY ATTENDANCE:

SUN	MON	TUE	WED	THU	FRI	SAT
12-6						

HOURS OF AMPLIFIED SPEAKING/MUSIC: (IF DIFFERENT FROM ABOVE)

SUN	MON	TUE	WED	THU	FRI	SAT

HOURS OF STREET/SIDEWALK CLOSURE: (IF DIFFERENT FROM ABOVE)

SUN	MON	TUE	WED	THU	FRI	SAT

CONTACT PERSON: Alan Delahunt
ADDRESS: 426 West Plant St
CITY: Winter Garden STATE: FL ZIP: 34787
PHONE: 407-267-2560 CELLULAR:
EMAIL: alan@crookedcan.com

PROPERTY OWNER: Plant Street Market
ADDRESS: 426 West Plant Street
CITY: Winter Garden STATE: FL ZIP: 34787
PHONE: 407-267-2560 CELLULAR: —
EMAIL: alan@crookedcan.com

PZE2025-0266 Event Dates: 3/13 - 3/15/26.

Open-Air Special Event Permit Application 05-2025

I, ALAN DELAHUNT, CERTIFY THAT THE INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. IF ANY INFORMATION IS FOUND TO BE FALSE OR MISREPRESENTED, SUCH FACT MAY BE JUST CAUSE FOR IMMEDIATE REVOCATION OF ANY PERMIT ISSUED TO ME. IT IS FURTHER UNDERSTOOD THAT THIS PERMIT IS FOR THE PRIVILEGE OF ENGAGING IN THE BUSINESS PROFESSION OR OCCUPATION SHOWN AND ONLY AT THE LOCATION SHOWN HEREIN AND THAT I WILL COMPLY WITH THE CODE OF THE CITY OF WINTER GARDEN. FAILURE TO CORRECT CONDITIONS ON THE PREMISES THAT ARE IN VIOLATION OF THE CITY CODE WILL RESULT IN REVOCATION OF SAID PERMIT. I UNDERSTAND THAT CONDUCTING BUSINESS WITHOUT A PERMIT SHALL BE PUNISHED AS SET FORTH IN CHAPTER 2, ARTICLE II OF THE CITY CODE.

APPLICANT'S SIGNATURE

SWORN TO (OR AFFIRMED) AND SUBSCRIBED BEFORE ME THIS 31ST DAY OF DECEMBER, 2025 BY ~~ALAN DELAHUNT~~ WILLIAM P. BISHOP II WHO DID NOT TAKE AN OATH.

Notary Public State of Florida
William Paul Bishop II
My Commission HH 629793
Expires 1/16/2029

Notary Seal

☑ PERSONALLY KNOWN OR;

☐ PRODUCED IDENTIFICATION / TYPE OF ID PRODUCED _____

SIGNATURE OF NOTARY

NOTE: ANY PERMITTEE WHOSE OPEN AIR VENDOR PERMIT IS SUSPENDED OR REVOKED, OR ANY APPLICANT WHOSE APPLICATION FOR AN OPEN AIR VENDOR PERMIT IS DENIED PURSUANT TO CITY CODE SHALL RECEIVE A STATEMENT, IN WRITING, OUTLINING THE REASONS FOR SUCH SUSPENSION, REVOCATION, OR DENIAL OF THE PERMIT. AN APPLICANT MAY APPEAL SUCH SUSPENSION, REVOCATION OR DENIAL OF THE PERMIT TO THE CITY COMMISSION BY FILING A WRITTEN REQUEST FOR APPEAL WITH THE CITY CLERK, ACCOMPANIED BY THE ADMINISTRATIVE APPELLATE FEE AS PERIODICALLY DETERMINED BY THE CLERK'S OFFICE, WITHIN TEN (10) DAYS AFTER THE DATE OF THE WRITTEN SUSPENSION, REVOCATION OR DENIAL. APPEALS FROM DECISIONS OF THE CITY MANAGER'S OFFICE, INCLUDING DECISIONS OF REVOCATION OR SUSPENSION, MADE PURSUANT TO THIS ARTICLE SHALL BE ADDRESSED BY THE CITY COMMISSION. WHEN TIMELY FILED, AN APPEAL SHALL BE HEARD AT THE NEXT REGULARLY SCHEDULED CITY COMMISSION MEETING, WHICH MEETING IS SCHEDULED AT LEAST FOURTEEN (14) DAYS AFTER THE FILING OF SUCH APPEAL. APPEALS FROM THE DECISIONS OF THE CITY COMMISSION SHALL BE AS PROVIDED IN CITY CODE SECTION 98-32.

FOR OFFICE USE ONLY

APPLICATION REVIEW

		DATE	APPROVAL
CITY MANAGER/DESIGNEE			☐ YES ☐ NO

CONDITIONS

COMMUNITY DEVELOPMENT DEPARTMENT
300 WEST PLANT STREET
WINTER GARDEN, FLORIDA 34787

P: 407.877.5136
F: 407.656.0839
WWW. CWGDN.COM

PZE2025-0206

OPEN-AIR SPECIAL EVENT PERMIT APPLICATION FOR PRIVATE PROPERTY

PLEASE SUBMIT ALL OF THE FOLLOWING ITEMS THAT APPLY ELECTRONICALLY WITH YOUR APPLICATION.

✓ USE OF PROPERTY – PROOF OF REAL PROPERTY OWNER'S OR LESSEE'S PERMISSION

✓ ELECTRONIC SUBMITTAL OF ***ALL*** THE APPLICATION AND SUBMITTAL DOCUMENTS THROUGH THE CITY'S BS&A ONLINE PORTAL: (HTTPS://BSAONLINE.COM/CD_PZEPROCESSAPPLICATION/WIZARDSTEP?STEP=1&UID=3123)

✓ IF REGULATED BY THE STATE OF FLORIDA, A COPY OF THE STATE LICENSE, AND INSURANCE.

✓ SITE PLAN INDICATING ALL AFFECTED AREAS, STREETS PROPOSING TO BE CLOSED, TEMPORARY POWER SOURCES TO BE INSTALLED, PORTABLE RESTROOM LOCATIONS, VENDOR PLACEMENT, PARADE ROUTE OR ANY OTHER SIGNIFICANT FEATURES

✓ COPY OF APPLICANT'S INSURANCE CERTIFICATE. IF THE EVENT USES PUBLIC RIGHTS-OF-WAY OR CITY PROPERTY TO SUPPORT THE EVENT THE APPLICANT NEEDS TO NAME THE CITY OF WINTER GARDEN AS ADDITIONALLY INSURED.

LIMITS WILL IN MOST INSTANCES BE REQUIRED IN THE FOLLOWING AMOUNTS:

- GENERAL AGGREGATE 1,000,000
- PRODUCTS AGGREGATE 1,000,000
- PERSONAL & ADVERTISING INJURY 250,000 EACH OCCURRENCE 250,000
- FIRE LEGAL LIABILITY 50,000
- MEDICAL PAYMENTS 2,000

CITY STAFF RESERVES THE RIGHT TO REQUEST INCREASED LIMITS DEEMED NECESSARY FOR CERTAIN HIGH-RISK ACTIVITIES. INDIVIDUALS AND GROUPS WITHOUT INSURANCE, OR GROUPS THAT DO NOT PRODUCE AN APPROPRIATE CERTIFICATE OF INSURANCE TWO WEEKS PRIOR TO THE EVENT DATE WILL BE REQUIRED TO PURCHASE INDIVIDUAL EVENT POLICIES THROUGH THE CITY INSURANCE CARRIER AT LIMITS DEEMED NECESSARY BY CITY STAFF. PRICES FOR APPROPRIATE POLICIES ARE ESTABLISHED BY THE INSURANCE BROKER AND ARE NON-NEGOTIABLE. IF PROPER INSURANCE IS NOT OBTAINED OR PAID FOR AT LEAST TWO WEEKS PRIOR TO THE SCHEDULED EVENT, THE CITY RESERVES THE RIGHT TO CANCEL THE EVENT REQUEST.

✓ APPLICATION FEE: **$25.00** (NON-REFUNDABLE – WILL APPLY TO PERMIT FEE UPON APPROVAL)

_____ PERMIT FEE: IF **≤ 15** DAYS **$50.00**; IF **>15** DAYS **$100.00** (NO PRO-RATIONS)

REQUIREMENTS

PLEASE NOTE: IT SHALL BE UNLAWFUL FOR ANY OPEN AIR VENDOR TO OPERATE WITHOUT VALID OPEN AIR VENDOR PERMIT GRANTED BY THE CITY MANAGER, AND ANY SUCH INFRACTION SHALL BE PUNISHED AS SET FORTH IN CHAPTER 2, ARTICLE II OF THE CITY CODE. (REFERENCE ORDINANCE 09-25)

1. **Permit:** Application for permit must be submitted a minimum of 6-8 weeks prior to special event.
2. **Business Tax Receipt:** If the Sale or Event is part of an Owner occupied event or sale, only the event permit will be charged. However, if the event or sale is a non-owner or on-site business, the vendor will be required to pay a Business Tax fee.
3. **Charitable Organizations:** 501/3(s) agencies can request a waiver of the application fee, permit fee, and business tax receipt. This request must be submitted in writing to the City Manager.
4. **Food Vending:** The Department of Business and Professional Regulation of the State of Florida requires that you notify their Division of Hotels and Restaurants office no later than three days to any temporary event where food will be sold. All food vendors must meet minimum safety and sanitation requirements and pay a temporary event licensing fee if they do not already hold an annual license with the State of Florida. The Division of Hotels and Restaurants can be reached at 850-487-1395 or WWW.MYFLORIDA.COM/DBPR for more information.
5. **Electric:** If electric is being used an electrical permit will be required.
6. **Tent Permit:** If you're renting a tent(s) for the event (> 10' x 10') a tent permit must be submitted with this application.
7. **No Attention Getting Devices Allowed.** (i.e. Inflatable Balloons, Searchlights, Streamers, and Flags).

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 12/31/2025

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Blackadar Insurance Agency, Inc. 1436 N Ronald Reagan Blvd Longwood FL 32750	**CONTACT NAME:** Ella Nulph **PHONE (A/C, No, Ext):** 407-831-3832 **FAX (A/C, No):** 407-830-4681 **E-MAIL ADDRESS:** ella@blackadar.com
INSURED CROOCAN-01 Crooked Can Brewing Company, LLC 426 W. Plant Street Winter Garden FL 34787	**INSURER(S) AFFORDING COVERAGE** / **NAIC #** **INSURER A :** Philadelphia Insurance Company **INSURER B :** **INSURER C :** **INSURER D :** **INSURER E :** **INSURER F :**

COVERAGES **CERTIFICATE NUMBER:** 1106694467 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X **COMMERCIAL GENERAL LIABILITY** CLAIMS-MADE [X] OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: [X] POLICY [ ] PRO-JECT [ ] LOC OTHER:	Y	Y	PHPK2643151-004	1/14/2026	1/14/2027	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG $	$ 1,000,000 $ 100,000 $ 5,000 $ 1,000,000 $ 2,000,000 $ 2,000,000 $
A	**AUTOMOBILE LIABILITY** ANY AUTO OWNED AUTOS ONLY [X] HIRED AUTOS ONLY SCHEDULED AUTOS [X] NON-OWNED AUTOS ONLY			PHPK2643151-004	1/14/2026	1/14/2027	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident) $	$ 1,000,000 $ $ $ $
A	X **UMBRELLA LIAB** [X] OCCUR **EXCESS LIAB** CLAIMS-MADE DED RETENTION $			PHUB896518-004	1/14/2026	1/14/2027	EACH OCCURRENCE AGGREGATE $	$ 2,000,000 $ 2,000,000 $
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y / N ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? [ ] **(Mandatory in NH)** If yes, describe under DESCRIPTION OF OPERATIONS below	N / A					PER STATUTE [ ] OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ $ $
A	Liquor Liability			PHPK2643151-004	1/14/2026	1/14/2027	Limit	1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Certificate Holder is included as Additional Insured and Blanket Waiver of Subrogation applies; with regard to General Liability when required by written contract.

City of Winter Garden is named as additional insured with respect to general liability when required by written contract.

CERTIFICATE HOLDER

City of Winter Garden
300 W Plant Street
Winter Garden FL 34787

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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PLANT STREET MARKET, LLC 426 W. Plant Street Winter Garden, FL 34787

Date: Dec 31,2025

TO WHOM IT MAY CONCERN:

Subject: Permission for Special Event License Application – Celtic Fest

This letter serves as written permission from **PLANT STREET MARKET, LLC**, located at 426 W. Plant Street, Winter Garden, FL 34787 (FEI/EIN Number: 46-5100420), to **Crooked Can Brewing Company** to file for a Special Event License.

This license application is in relation to the event known as **"Crooked Can Celticfest,"** which is scheduled to be held on the property located at **426 W. Plant Street, Winter Garden, FL 34787**, from March 13 through 15th, 2026.

PLANT STREET MARKET, LLC grants Crooked Can Brewing Company full authorization to use the property for the purpose of hosting Celticfest and to undertake all necessary steps, including the application for and procurement of any required special event licenses from relevant governmental authorities.

Sincerely,

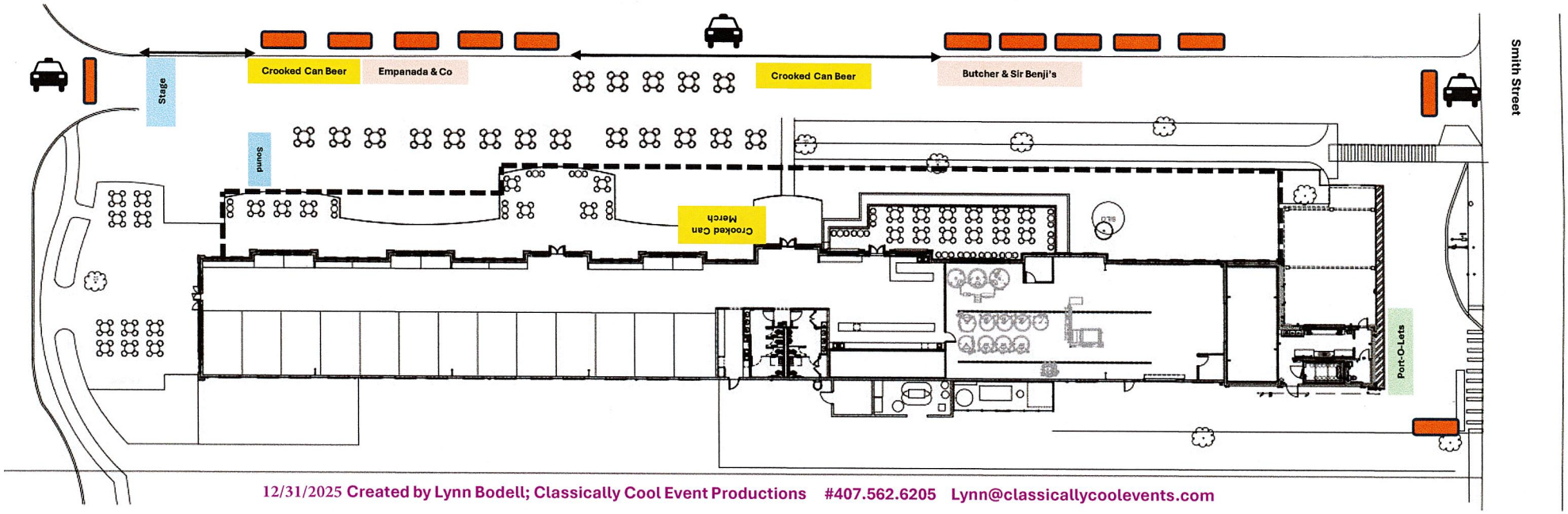
Andrew Sheeter

Owner

PLANT STREET MARKET, LLC

Crooked Can Brewing Company
Celtic Fest Festival Map

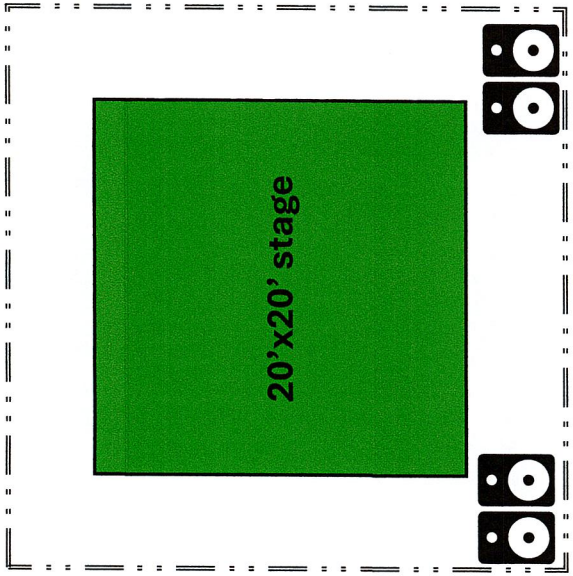
March 13-15, 2026



12/31/2025 Created by Lynn Bodell; Classically Cool Event Productions #407.562.6205 Lynn@classicallycoolevents.com

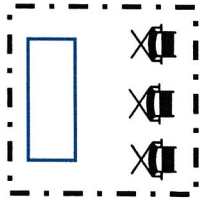
Crooked Can Brewing Company
Celtic Fest 2026 Tent & Stage Rentals

30' x 30' Gable Main Stage Tent



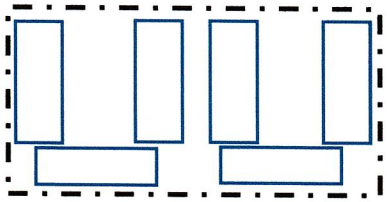
Equipment under the tent:
Musicians and their instruments
Sound & Light production equipment; speakers, microphones

10' x 10' Sound Tent



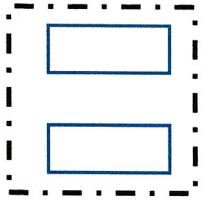
Equipment under the tent:
6' table with Sound equipment
Chairs

10'x20' Butcher & Sir Benji's Tent



Equipment under the tent:
6' tables for food vendors
Market lights

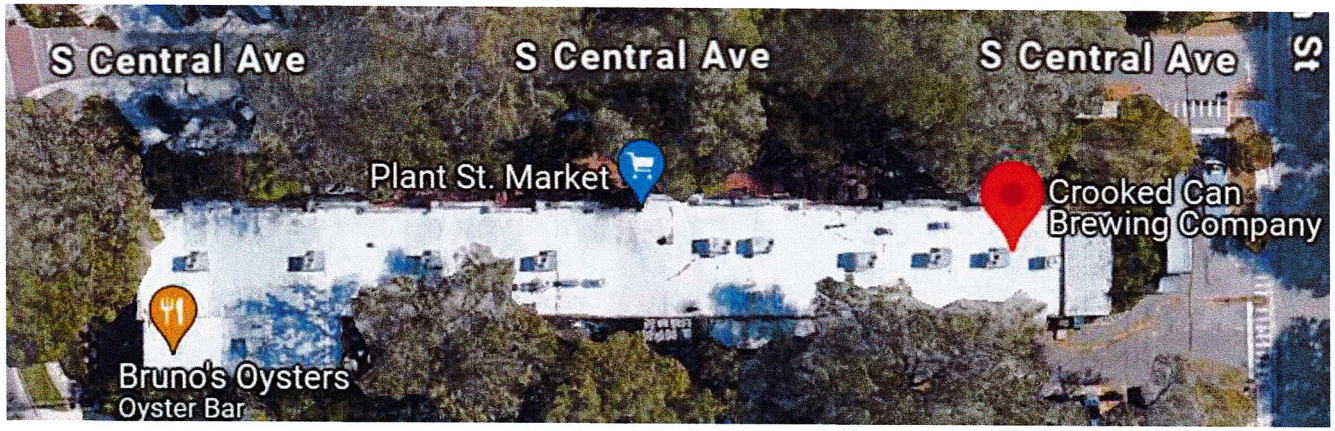
10'x10'Empanada Tent



Equipment under the tent:
6' tables for food vendor
Market lights

Created by Lynn Bodell; Classically Cool Event Productions #407.562.6205 Lynn@classicallycoolevents.com

Crooked Can Brewing Company
426 W. Plant Street
Winter Garden, Florida 34787



Festival map layout is the same direction as this Google map photo.

Created by Lynn Bodell; Classically Cool Event Productions #407.562.6205 Lynn@classicallycoolevents.com

Ron DeSantis, Governor

Melanie S. Griffin, Secretary

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

DIV OF ALCOHOLIC BEVERAGES & TOBACCO

THE RETAILER OF ALCOHOLIC BEVERAGES HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 564, FLORIDA STATUTES

SERIES: 2COP DUAL LICENSE

CROOKED CAN BREWING COMPANY LLC

CROOKED CAN BREWING COMPANY LLC
426 WEST PLANT STREET
WINTER GARDEN FL 34787

LICENSE NUMBER: BEV5812096

EXPIRATION DATE: SEPTEMBER 30, 2026

Always verify licenses online at MyFloridaLicense.com

ISSUED: 12/31/2025

Do not alter this document in any form.

This is your license. It is unlawful for anyone other than the licensee to use this document.

THE CITY OF WINTER GARDEN

CITY COMMISSION AGENDA ITEM

From: Kelly Carson, Planning Director

Via: Jon C. Williams, City Manager

Date: February 5, 2026 **Meeting Date:** February 12, 2026

Subject: **9th Annual FOLA 40 Bike Ride – Special Event**

Issue: Friends of Lake Apopka (FOLA) is requesting to hold their annual bike ride starting from the Downtown Pavillion on April 19, 2026.

Discussion:

Friends of Lake Apopka (FOLA) is requesting to use the Downtown Pavilion for rider registration and launch area for their annual 42 mile bicycle ride around Lake Apopka. The event would be held on Sunday April 19, 2026 from 7:00 AM to 9:30 AM, with approximately 300 cyclists participating in the event.

Recommended Action:

Staff recommends approval of the FOLA 40 Bike Ride Event on Sunday, April 19, 2026, starting at the Downtown Pavillion.

Attachment(s)/References:

Permit Application

Event Date: 04/19/2026

Planning & Zoning

JAN 12 2026

Received by: CEF
Project #: P2E 2026-0009

CITY OF WINTER GARDEN
Community Development
300 West Plant Street
WINTER GARDEN, FL 34787

(407) 656-4111
WWW.WINTERGARDEN-FL.GOV

SPECIAL EVENT APPLICATION

Private Property

OFFICIAL USE ONLY

DATE RECEIVED: _____

PERMIT FEE PD. ON: _____ INIT. _____

PER CITY CODE 27.1.3 "SPECIAL EVENTS" ARE DEFINED AS ANY PUBLIC ASSEMBLY OF 100 OR MORE PEOPLE IN ANY PARK, SIDEWALK, ALLEY, LAKE OR OTHER PUBLICALLY OWNED AREA. COMPLETED APPLICATIONS SHOULD BE SUBMITTED NO LESS THAN 30 DAYS PRIOR TO THE FIRST DATE OF THE PROPOSED EVENT. EVENTS THAT REQUIRE CLOSURE OF ANY CITY STREET OR ARE ANTICIPATED HAVING MORE THAN 500 PEOPLE IN ATTENDANCE WILL REQUIRE APPROVAL OF THE CITY COMMISSION.

SPECIAL EVENTS ON CITY PROPERTY WHERE 500 OR MORE PEOPLE ARE REASONABLY ANTICIPATED TO BE IN ATTENDANCE OR WHERE THERE ARE REQUESTS FOR STREET CLOSURES WILL REQUIRE PRIOR APPROVAL BY THE CITY COMMISSION, AT LEAST FOUR WEEKS PRIOR TO THE SCHEDULED EVENT. THE APPLICANT MUST COMPLETE ALL OF THE FOLLOWING INFORMATION.

DATE OF APPLICATION: January 12, 2026
ORGANIZATION/GROUP: Friends of Lake Apopka NON-PROFIT ☒ CORP ☐ INDIV. ☐
NAME OF EVENT: 9th Annual FOLA 40
CONTACT/REPRESENTATIVE: Joe Dunn PHONE # 352-433-6975
ALT. PHONE #: 104 S. Lakeview Ave EMAIL: joendanita@gmail.com
EVENT LOCATION: Starts at Winter Garden Pavillion PROPOSED DATES: Sunday, April 19, 2026
HOURS: 7am-9:30am ESTIMATED DAILY ATTENDANCE: 300 cyclists
DATES & TIMES OF EVENT SETUP & BREAKDOWN:
SET UP: 7-8am BREAKDOWN: 9-9:30am

PLEASE CHECK ALL OF THE FOLLOWING THAT APPLY:

TYPE OF EVENT

- ☐ FESTIVAL
- ☐ EXHIBIT(S)
- ☐ CARNIVAL/CIRCUS/FAIR
- ☐ GENERAL MEETING
- ☐ PARADE
- ☐ BLOCK PARTY OR PICNIC
- ☒ SPORTING EVENT/COMPETITION
- ☐ WEDDING/RECEPTION
- ☐ REVIVAL
- ☐ OTHER (EXPLAIN)

EVENT DETAILS

- ☐ ADMISSION CHARGE/TICKET SALES
- ☐ ALCOHOL SERVED
- ☐ ALCOHOL SALES
- ☐ FIREWORKS/PYROTECHNICS
- ☐ FOOD TRUCKS
- ☐ MERCH. VENDORS # OF: _____
- ☒ OPEN TO PUBLIC
- ☐ STREET/SIDEWALK CLOSURE
  HOURS OF: _____
- ☐ CITY WATER USED
- ☒ EVENT HELP PREVIOUSLY
- ☐ CITY ELECTRIC USED

EQUIPMENT AT EVENT

- ☐ AMPLIFIED SPEAKING/MUSIC
  HOURS OF: _____
- ☐ PORTABLE RESTROOMS
- ☐ SPORTS EQUIPMENT
- ☐ STAGE/PROPS/PRODUCTION
- ☒ TENTS # & SIZE OF: One 8'x8'
- ☐ TEMPORARY EVENT SIGNAGE
- ☐ DUMPSTERS/RECEPTACLES
- ☐ COOKING EQUIPMENT USED
- ☐ GAS ☐ OPEN FLAME
- ☐ OTHER (EXPLAIN):

REVISED 02/23/2016

PZE2026-0009

Event Dates:
04/19/2026

CITY OF WINTER GARDEN
Community Development
300 West Plant Street
WINTER GARDEN, FL 34787

(407) 656-4111
WWW.WINTERGARDEN-FL.GOV

SPECIAL EVENTS

PLEASE PROVIDE A GENERAL DESCRIPTION OF THE EVENT THAT INCLUDES ALL FEATURES BEING PROPOSED TO TAKE PLACE. ELABORATE ON ANY7 OF THE ABOVE CHECKED ITEMS, IF NECESSARY: (USE BACK IF NEEDED)

Please see attached

NO APPLICATION WILL BE ACCEPTED UNLESS THE FOLLOWING ITEMS ARE INCLUDED.
(APPROVAL PROCESS WILL NOT BEGIN UNTIL THE FOLLOWING IS SUBMITTED):

- COPY OF 501C-3 FORM SIGNIFYING NON-PROFIT STATUS (IF APPLICABLE)
- SITE PLAN INDICATING ALL AFFECTED AREAS, STREETS PROPOSING TO BE CLOSED, TEMPORARY POWER SOURCES TO BE INSTALLED, PORTABLE RESTROOM LOCATIONS, VENDOR PLACEMENT, PARADE ROUTE OR ANY OTHER SIGNIFICANT FEATURES.
- COPY OF APPLICANT'S INSURANCE CERTIFICATE NAMING THE CITY OF WINTER GARDEN AS ADDITIONALLY INSURED.
- IF ATTENDANCE IS REASONABLY ANTICIPATED TO BE GREATER THAN 100 PEOPLE, YOU SHOULD ALSO INCLUDE A PLAN FOR :
  - SANITATION – RESTROOM, PORT-O-LET PLACEMENT, POTABLE WATER, TRASH RECEPTACLES & COLLECTION PLAN, ETC.
  - PARKING AND TRAFFIC – REROUTING TRAFFIC AROUND BLOCKED STREETS, PARKING FOR EVENT PATRONS, ETC.
  - MEDICAL CARE – FIRST AID STATIONS, EMS SERVICES, AMBULANCE ON SITE, ETC.
  - SECURITY – OFF-DUTY OFFICERS SCHEDULES, SECURITY SERVICE UTILIZED, # OF EVENT STAFF IN ATTENDANCE, ETC.
- IF YOU WANT TO HAVE ANY SIGNAGE, PLEASE PROVIDE A SITE PLAN SHOWING WHERE SIGNS ARE PROPOSED (THE CITY PROHIBITS SNIPE SIGNS).

FOR OFFICIAL USE ONLY

TECHNICIAN INITIAL: _____ DATE RECEIVED: _____ ☐ FEE PAID

CITY MANAGER/DESIGNEE: _____ DATE: _____ APPROVED: ☐ YES / ☐ NO

CONDITIONS:

REVISED 02/23/2016

PZF 2026-0009

Event Date: 04/19/2026

CITY OF WINTER GARDEN
Community Development
300 West Plant Street
WINTER GARDEN, FL 34787

(407) 656-4111
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SPECIAL EVENTS POLICIES AND PROCEDURES

FOOD VENDING

THE DEPT. OF BUSINESS AND PROFESSIONAL REGULATION OF THE STATE OF FLORIDA REQUIRES THAT YOU NOTIFY THEIR DIVISION OF HOTELS AND RESTAURANTS NO LATER THAN THREE DAYS PRIOR TO ANY TEMPORARY EVENT WHERE FOOD WILL BE SOLD. ALL FOOD VENDORS MUST MEET MINIMUM SAFETY AND SANITATION REQUIREMENTS AND PAY A TEMPORARY EVENT LICENSING FEE IF THEY DO NOT ALREADY HOLD AN ANNUAL LICENSE WITH THE STATE OF FLORIDA. THE DIVISION OF HOTELS AND RESTAURANTS CAN BE REACHED AT 850-487-1395 OR VISIT http://www.myfloridalicense.com/dbpr/hr/licensing/GT_tempevents.html FOR MORE INFORMATION.

EVENT INSURANCE

LIMITS WILL IN MOST INSTANCES BE REQUIRED IN THE FOLLOWING AMOUNTS:
GENERAL AGGREGATE $1,000,000 PRODUCTS AGGREGATE $1,000,000
PERSONAL & ADVERTISING INJURY $250,000 EACH OCCURRENCE $250,000
FIRE LEGAL LIABILITY $50,000 MEDICAL PAYMENTS $2,000
CITY STAFF RESERVES THE RIGHT TO REQUEST INCREASED LIMITS DEEMED NECESSARY FOR CERTAIN HIGH-RISK ACTIVITIES. INDIVIDUALS, GROUPS WITHOUT INSURANCE, OR GROUPS THAT DO NO PRODUCE AN APPROPRIATE CERTIFICATE OF INSURANCE TWO WEEKS PRIOR TO THE EVENT DATE WILL BE REQUIRED TO PURCHASE INDIVIDUAL EVENT POLICIES THROUGH THE CITY INSURANCE CARRIER AT LIMITS DEEMED NECESSARY BY CITY STAFF. PRICES FOR APPROPRIATE POLICIES ARE ESTABLISHED BY THE INSURANCE BROKER AND ARE NON-NEGOTIABLE. IF PROPER INSURANCE IS NOT OBTAINED OR PAID FOR AT LEAST TWO WEEKS PRIOR TO THE SCHEDULED EVENT, THE CITY RESERVES THE RIGHT TO CANCEL THE EVENT REQUEST.

PERMIT FEES

EVENTS WITH LESS THAN 25 IN ATTENDANCE: $25.00
EVENTS WITH 25 - 200 PEOPLE IN ATTENDANCE: $150.00 EVENTS
WITH OVER 200 PEOPLE IN ATTENDANCE: $1,000.00

FEES

OTHER FEES WILL BE ASSESSED IF DEEMED NECESSARY BY CERTAIN APPLICABLE DEPARTMENTS. ALTHOUGH NOT AN EXHAUSTIVE LIST, FEES MAY BE ASSESSED FOR POLICE OFFICERS, POLICE SUPERVISORS, FIRE PROTECTION, EMT PERSONNEL, STREET BARRICADING, ELECTRIC USAGE, NECESSARY MAINTENANCE STAFF, TRASH RECEPTACLES & COLLECTION, OTHER NECESSARY STAFF ON-SITE DURING EVENT HOURS, ETC. BONDS OF UP TO $5,000,000 MAY BE REQUIRED AT THE DISCRETION OF CITY STAFF FOR EVENTS WITH ATTENDANCE OVER 500 PEOPLE AND EVENTS HOSTING CERTAIN HIGH-RISK ACTIVITIES. ALL FEES MUST BE PAID IN FULL IN CASH, CERTIFIED CHECK OR MONEY ORDER AT LEAST TWO WEEKS PRIOR TO THE EVENT DATE TO AVOID CANCELLATION.

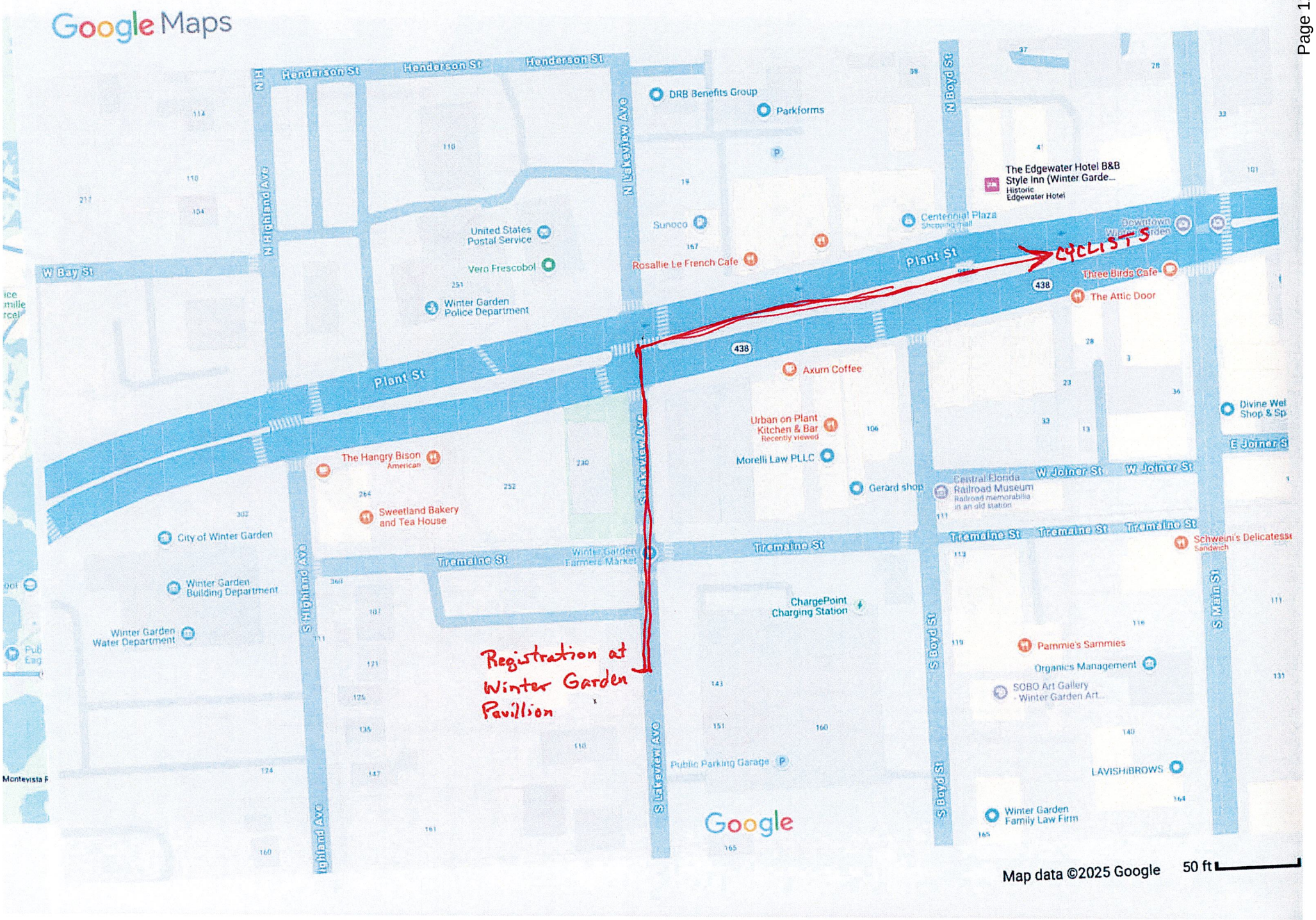
MISCELLANEOUS POLICIES

- BOUNCE HOUSES, INFLATABLES, AND ANY TYPE OF RIDES ARE NOT ALLOWED ON CITY PROPERTY.
- EVENT ADVERTISING WILL NOT INCLUDE ANY REFERENCE OF ENDORSEMENT BY THE CITY OF WINTER GARDEN.
- TEMPORARY EVENT SIGNAGE MUST MEET CITY CODE REQUIREMENTS. CONTACT W.G. CODE ENFORCEMENT FOR INFO.
- THERE ARE OTHER SPECIAL REQUIREMENTS FOR MOTION PHOTOGRAPHY PRODUCTION.
- THERE ARE SPECIAL REQUIREMENTS FOR FIREWORKS.
- ANY EVENT UTILIZING PLANT ST. AND EFFECTIVELY CLOSING THE WEST ORANGE TRAIL MUST NOTIFY ORANGE COUNTY PARKS AND RECREATION AT 407-654-1108.
- IF ANY PORTION OF A STATE ROAD IS TO BE CLOSED, A STATE D.O.T. REQUEST FORM MUST BE OBTAINED FROM THE WINTER GARDEN POLICE DEPT., COMPLETED AND RETURNED TO THE WGPD TO BE FILED WITH THE STATE OF FLORIDA. SUCH REQUESTS SHOULD BE SUBMITTED AT LEAST SIX WEEKS PRIOR TO THE EVENT DATE.
- MAY BE REQUIRED TO MEET WITH CITY TO PRESENT DETAILS OF EVENT.

APPROVAL PROCESS

COMMUNITY DEVELOPMENT, ECONOMIC DEVELOPMENT, CITY MANAGER AND PARKS & RECREATION DEPARTMENTS WILL REVIEW ALL REQUESTS AND FORWARD TO ADDITIONAL DEPARTMENTS AS NEEDED. YOU MAY BE CONTACTED TO PROVIDE FURTHER INFORMATION. YOU WILL BE NOTIFIED OF INITIAL APPROVAL, ADDITIONAL FEE REQUIREMENTS AND IF FURTHER COMMISSION APPROVAL WILL BE REQUIRED IN 2 TO 4 WEEKS. CONDITIONS OF APPROVAL DOCUMENT MAY BE INCLUDED AS PART OF FINAL APPROVAL.

REVISED 02/23/2016


Google Maps
Henderson St
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Edgewater Hotel
United States
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Sunoco
Centennial Plaza
Shopping mall
Vero Frescobol
Rosallie Le French Cafe
CYCLIST S
W Bay St
Plant St
438
Three Birds Cafe
The Attic Door
Winter Garden
Police Department
Axum Coffee
Urban on Plant
Kitchen & Bar
Recently viewed
Morelli Law PLLC
Divine Wel
Shop & Sp
E Joiner St
The Hangry Bison
American
Sweetland Bakery
and Tea House
Gerard shop
Central Florida
Railroad Museum
Railroad memorabilia
in an old station
W Joiner St
City of Winter Garden
Tremaine St
Winter Garden
Farmers Market
Schweini's Delicatesse
Sandwich
Winter Garden
Building Department
Winter Garden
Water Department
ChargePoint
Charging Station
S Highland Ave
S Lakeview Ave
S Boyd St
S Main St
Registration at
Winter Garden
Pavillion
Pammie's Sammies
Organics Management
SOBO Art Gallery
- Winter Garden Art...
Public Parking Garage
LAVISHiBROWS
Winter Garden
Family Law Firm
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2025 FLORIDA NOT FOR PROFIT CORPORATION ANNUAL REPORT

FILED
Apr 21, 2025
Secretary of State
5767163327CC

DOCUMENT# N50540

Entity Name: FRIENDS OF LAKE APOPKA, INCORPORATED

Current Principal Place of Business:

525 LAKE COVE POINTE CIRCLE
WINTER GARDEN, FL 34787

Current Mailing Address:

P.O. BOX 770355
WINTER GARDEN, FL 34777 US

FEI Number: 59-3174282

Certificate of Status Desired: No

Name and Address of Current Registered Agent:

DUNN, JOSEPH
525 LAKE COVE POINTE CIRCLE
WINTER GARDEN, FL 34787 US

The above named entity submits this statement for the purpose of changing its registered office or registered agent, or both, in the State of Florida.

SIGNATURE:

Electronic Signature of Registered Agent — Date

Officer/Director Detail :

Title	PRESIDENT
Name	KOONTZ, STEVE
Address	P.O. BOX 770355
City-State-Zip:	WINTER GARDEN FL 34777

Title	SECRETARY
Name	COMSTOCK, RACHEL
Address	P.O. BOX 770355
City-State-Zip:	WINTER GARDEN FL 34777

Title	DIRECTOR
Name	DUNN, JOSEPH
Address	P.O. BOX 770355
City-State-Zip:	WINTER GARDEN FL 34777

Title	TREASURER
Name	WHITEHOUSE, DANIEL
Address	P.O. BOX 770355
City-State-Zip:	WINTER GARDEN FL 34777

Title	VP
Name	CARTER, KRISTA
Address	P.O. BOX 770355
City-State-Zip:	WINTER GARDEN FL 34777

I hereby certify that the information indicated on this report or supplemental report is true and accurate and that my electronic signature shall have the same legal effect as if made under oath; that I am an officer or director of the corporation or the receiver or trustee empowered to execute this report as required by Chapter 617, Florida Statutes; and that my name appears above, or on an attachment with all other like empowered.

SIGNATURE: DANIEL WHITEHOUSE TREASURER 04/21/2025

Electronic Signature of Signing Officer/Director Detail — Date