



SUBMITTAL SUMMARY REPORT

MajorSite-000060-2025

PLAN NAME:	Multi-Family- 8 Units - 351 Marion Oaks Blvd	LOCATION:	351 MARION OAKS BLVD OCALA,
APPLICATION DATE:	11/20/2025	PARCEL:	8004-0433-18
DESCRIPTION:	New 8-unit residential building		

CONTACTS	NAME	COMPANY
Applicant	ADAN ORDONEZ ORDONEZ	ORDONEZ ORDONEZ CONSTRUCTION, INC
Engineer of Record	CHAD LINN	LINN ENGINEERING

CONDITION	DESCRIPTION	CREATED BY	CREATED ON	COMMENTS	SATISFIED?
Conditional Comment(s)		Chris Zeigler	02/23/2026	The sidewalk fee of \$2,400.00 must be paid prior to plan approval.	Yes

SUBMITTAL	STARTED	DUE	COMPLETE	STATUS
OCE: Plan Review (DR) v.5	06/24/2026	07/01/2026	07/06/2026	Approved
OCE: Plan Review (DR) v.4	06/02/2026	06/09/2026	06/09/2026	Requires Re-submit
OCE: Plan Review (DR) v.3	04/24/2026	05/01/2026	05/05/2026	Requires Re-submit
OCE: Plan Review (DR) v.2	02/18/2026	02/25/2026	02/27/2026	Requires Re-submit
OCE: Plan Review (DR) v.1	12/05/2025	12/19/2025	12/24/2025	Requires Re-submit

SUBMITTAL DETAILS

OCE: Plan Review (DR) v.5					
ITEM	REVIEW NAME (DEPARTMENT)	ASSIGNED TO	DUE	COMPLETE	STATUS
911 Management (DR)	(911 Management)	Jamie Waldron	07/01/2026	06/29/2026	Approved
Corrections	Additional 911 Comments (Resolved) - Corrective Action: Unit numbers needed on Site Plan. On Sheet C04 - when facing the building the 1st floor will be assigned Units 101-104 from left to right and the 2nd floor will be assigned 201-204 from left to right. These unit numbers need to be added to the site plan when applying for permits. Plan Approved.				
Environmental Health (Plans)	(Environmental Health)	Evan Searcy	07/01/2026	06/25/2026	Approved
Fire Marshal (Plans)	(Fire)	Jonathan Kenning	07/01/2026	06/25/2026	Approved
Growth Services Planning & Zoning (DR)	(GS Planning and Zoning)	Jared Rivera	07/01/2026	06/29/2026	Approved
Corrections	2.12.16/6.5 - EALS or Exemption provided (Resolved) - [INFO] EALS submitted and transmitted to FWC on 12/10/25.				
Corrections	2.12.27 - Location & screening of outside storage (Resolved) - [INFO] No outdoor storage				
Corrections	2.12.4/6.11.8 - Parking (Resolved) - [INFO] Please note that parking lot landscaping will need to be provided consistent with LDC Sec. 6.8.7				
Corrections	2.12.4.L & Article 5 - Overlay zones (Resolved) - [INFO] FEMA Flood Zone X, Secondary Springs Protection Zone, No ESOZ				
Corrections	2.12.5/1.8.2.D - Traffic Concurrency Evaluation? (Resolved) - [INFO] Please coordinate with OCE regarding improvements based on required traffic impact analysis.				
Comments	For any questions related to this planning/zoning review, please contact jared.rivera@marionfl.org or 352-438-2687.				
Landscape (Plans)	(Parks and Recreation)	Susan Heyen	07/01/2026	06/25/2026	Approved
Comments	Landscape plan approved in previous submittal				
OCE Design (Plans)	(Office of the County Engineer)	Gerald Koch	07/01/2026	07/01/2026	Approved

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ITEM REVIEW NAME (DEPARTMENT)	ASSIGNED TO	DUE	COMPLETE	STATUS
OCE Property Management (Plans) (Office of the County Engineer)	Delenie Roman	07/01/2026	06/30/2026	Informational
<i>Comments</i>	Map/Sunbiz checked. ----- IF APPLICABLE: Sec. 2.18.1.I - Show connections to other phases. Sec.2.19.2.H – Legal Documents Legal documents such as Declaration of Covenants and Restrictions, By-Laws, Articles of Incorporation, ordinances, resolutions, etc. Sec. 6.3.1.B.1 – Required Right of Way Dedication (select as appropriate) For Public Streets. "[All streets and rights-of-way shown on this plat or name specifically if less than all] are hereby dedicated for the use and benefit of the public." Sec. 6.3.1.B.2 – Required Right of Way Dedication For Non-Public Streets. "[All streets and rights-of-way shown on this plat or name specifically if less than all] are hereby dedicated privately to the [entity name]. All public authorities and their personnel providing services to the subdivision are granted an easement for access. The Board of County Commissioners of Marion County, Florida, shall have no responsibility, duty, or liability whatsoever regarding such streets. Marion County is granted an easement for emergency maintenance in the event of a local, state, or federal state of emergency wherein the declaration includes this subdivision or an emergency wherein the health, safety, or welfare of the public is deemed to be at risk." Sec. 6.3.1.D.3 - Cross Access Easements For Cross Access Easements. "All parallel access easements shown on this plat are hereby dedicated for the use and benefit of the public, and maintenance of said easements is the responsibility of [entity name]." Sec. 6.3.1.C.1 - Utility Easements (select as appropriate) "[All utility easements shown or noted or name specifically if less than all] are dedicated [private or to the public] for the construction, installation, maintenance, and operation of utilities by any utility provider." Sec. 6.3.1.C.2 – Utility Easements "[All utility tracts or identify each tract as appropriate] as shown are dedicated [private or to the public] for the construction and maintenance of such facilities." Sec.6.3.1.D(c)(1)(2)(3) - Stormwater easements and facilities, select as appropriate: 1. "[All stormwater and drainage easements as shown or noted or name specifically if less than all] are dedicated [private or to the public] for the construction and maintenance of such facilities." 2. "[All stormwater management tracts or identify each tract as appropriate] as shown are dedicated [private or to the public] for the construction and maintenance of such facilities." 3. When any stormwater easement and/or management tract is not dedicated to the public or Marion County directly, the following statement shall be added to the dedication language: "Marion County is granted the right to perform emergency maintenance on the [stormwater easement and/or management tract, complete accordingly] in the event of a local, state, or federal state of emergency wherein the declaration includes this subdivision or an emergency wherein the health, safety, or welfare of the public is deemed to be at risk." Sec.6.3.1.D(f) – If a Conservation Easement is required the following shall be provided: "A conservation easement [as shown or on tract and identify the tract, complete accordingly] is dedicated to [the Board of County Commissioners of Marion County, Florida or entity name, if not Marion County] for the purpose of preservation of [listed species, habitat, Karst feature and/or native vegetation, complete accordingly]." - DR 6/30/26			
OCE Stormwater (Permits & Plans) (Office of the County Engineer)	Alexander Turnipseed	07/01/2026	06/24/2026	Informational
<i>Comments</i>	Please provide a copy of the NPDES permit or NOI as well as District permit prior to construction.			
OCE Survey (Plans) (Office of the County Engineer)	Theresa Smail	07/01/2026	07/01/2026	Approved
<i>Corrections</i>	2.12.8. - Current boundary and topographic survey (Resolved) - 2.12.8. - Current boundary and topographic survey: Current boundary and topographic survey (one foot contour intervals extending 100 feet beyond the project boundary) based upon accepted vertical datum. Surveys will be less than 12 months old and accurately reflect current site conditions, meeting standards set forth in Ch. 5J-17 FAC. Alternate topographic data may be accepted if pre-approved by the Marion County Land Surveyor.			
<i>Corrections</i>	6.4.7. Construction Plans - Survey Requirements (Resolved) - Corrective Action: 6.4.7.B(1) - Show a minimum of two intervisible horizontal control points per site.			
	6.4.7.B(2) - Horizontal control points shall be monumented and referenced to the Florida State Plane Coordinate System			
	6.4.7.B(4) - Provide a statement or table detailing horizontal datum, adjustment, and coordinate values - 6.4.7. Construction Plans - Survey Requirements: Survey information to support construction plans, including but not limited to Mass Grading, Improvement, or Major Site plans, shall meet requirements as set forth in Ch. 5J-17 FAC in addition to the following as identified in Section 6.4.7.A. through H. of the LDC.			
OCE Traffic (Permits & Plans) (Office of the County Engineer)	Sydney Oberdorfer	07/01/2026	06/25/2026	Approved
<i>Corrections</i>	6.11.4.B - Cross access (Resolved) - Corrective Action: Provide the executed public parallel access easement. The template for the public easement can be obtained from the Development Review Office at developmentreview@marionfl.org or 352-671-8686. The executed template and recording fees must be returned to the Development Review Office prior to final plan approval. - 6.11.4.B - Cross access: Provide a 24' wide paved cross access easement as specified in 6.11.4.B			
<i>Corrections</i>	6.12.12 - Sidewalks (Resolved) - Corrective Action: Sidewalk is required along Marion Oaks Blvd. Staff supports payment of a fee in-lieu of sidewalk construction. A waiver must be approved by the Development Review Committee to allow the payment of a fee in-lieu of construction. If approved by the DRC the fee comes out to \$2,400.00 and must be paid prior to final plan approval. - 6.12.12 - Sidewalks: Show sidewalk on the plans as required in section 6.12.12.			
Utilities (OCE Plans) (Utilities)	Heather Proctor	07/01/2026	07/01/2026	Approved
<i>Corrections</i>	6.15.4 - Water Distribution System (Resolved) - Corrective Action: Tap for hydrant @ hydrant. Do not run water service to it. - 6.15.4 - Water Distribution System:			

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Utilities (OCE Plans) (Utilities)	Heather Proctor	07/01/2026	07/01/2026	Approved
<i>Corrections</i>	6.14.6 - Utilities design to be owned by MCU (Resolved) - Corrective Action: Informational: A. All utility systems shall be designed for the estimated tributary population. B. All utility systems shall be designed utilizing components with a minimum 30 year life span. C. Systems intended to be owned and maintained by MCU shall be designed for the tributary population and in conformance with the adopted Marion County Utilities Master Plan, as amended. D. Water systems shall be designed to satisfy the domestic water demand and fire protection requirements. E. All systems to be owned, operated, or maintained by MCU shall be subject to a pre-design meeting with MCU .F. All meters shall be located in a meter easement located adjacent to or within the public right-of-way. G. All meters in an MCU maintained system shall be installed and inspected by MCU after receiving payment of applicable fees and charges. H. All pipe shall comply with state standards. I. The engineer shall provide the required lengths of mechanically restrained joints in table form on the plans. - 6.14.6 - Utilities design to be owned by MCU:			
<i>Corrections</i>	Parcel numbers match project area (Resolved) - Corrective Action: Correct Parcel Number(s) or Project Area footprint - YES 8004-0433-18 - Parcel numbers match project area: The parcels(s) shown on the application and/or site plan must match the project area.			
<i>Corrections</i>	6.15.6.D - Meter Location (Resolved) - Corrective Action: Second request C06 - Move meter boxes into the ROW at the property line and label "end of county maintenance". 1" Header is not the appropriate size for 9 meters. Must size appropriately. MCU will install dual checks on residential meters. Backflow is not necessary for the unit meters. Keep the backflow on irrigation and call out on the plans. - 6.15.6.D - Meter Location:			
<i>Corrections</i>	6.14.7 - Construction Inspection - PLAN NOTE: (Resolved) - Corrective Action: Add note to Utility Sheet(s) MCU personnel are to inspect any work performed on or around existing MCU infrastructure. A pre-construction meeting is required to be held a minimum of 48 hours prior to start of any construction. If the pre-construction meeting is not completed, any work may be halted. To schedule, contact MCU's Construction Division, 352) 307-6000, ext. 5 or MCUconstruction@marionfl.org - 6.14.7 - Construction Inspection - PLAN NOTE			
<i>Corrections</i>	6.14.5.C - Hydraulic Analysis (Resolved) - Corrective Action: Second request - we need waste water analysis Submit (or revise if marked up) a hydraulic analysis to support the project. The Hydraulic Analysis has not been provided for this site. (LDC 6.14.5.C) - 6.14.5.C - Hydraulic Analysis: The hydraulic analysis is required to analyze the water or wastewater pressures in this area.			
<i>Corrections</i>	6.14.5.A(6) - MH locations, rim & invert elevation (Resolved) - Corrective Action: N/A - 6.14.5.A(6) - MH locations, rim & invert elevation:			
<i>Corrections</i>	Review Fee as applicable (per Resolution) (Resolved) - Corrective Action: Informational Plan resubmittal 5/1/26: \$130.00 - Review Fee as applicable (per Resolution): MCU review fee for this submittal			
<i>Corrections</i>	6.15.3 - Fire Protection/Fire Flow Capacity (Resolved) - Corrective Action: Sheet 06 - Backflow preventer needs to be shown directly after the meter. (2) install a gate valve near on the PWS meter side of the tee from the wet tap, so MCU doesn't have to shut down the fire line if repairs on the potable meters are required (see plan comments) - 6.15.3 - Fire Protection/Fire Flow Capacity:			
<i>Corrections</i>	6.14.5.B - Submit permits to MCU (DOT, ROW etc) (Resolved) - Corrective Action: Informational: Copies of all related permit applications and issued permits must be submitted to the Marion County Utilities Department prior to, or at the time of, the Pre-Construction Meeting. - 6.14.5.B - Submit permits to MCU (DOT, ROW etc): A copy of any permit issued to the contractor shall also be submitted to MCU's Construction Manager, or designee.			
<i>Corrections</i>	6.14.5.A(1) - Existing water & sewer mains shown (Resolved) - Corrective Action: Show all mains. Contractor to field locate. - 6.14.5.A(1) - Existing water & sewer mains shown: The entire utility system shall be shown on the plan, including existing water systems and all proposed components within the project area.			
<i>Corrections</i>	6.14.5.B - FDEP PWS and/or WW permits (Resolved) - Corrective Action: Informational: The Engineer of Record is responsible for requesting and submitting the appropriate FDEP Public Water System (PWS) and/or Wastewater (WW) permit applications, if applicable. All applications must be signed and sealed prior to submission for Marion County Utilities' signature and must be provided before the Utilities Pre-Construction meeting. - 6.14.5.B - FDEP PWS and/or WW permits			
<i>Corrections</i>	6.14.5.A(2) - Proposed mains & connections shown (Resolved) - Corrective Action: C06 - Need plug valve at the FM connection (2) Sheet 6.1 the proposed connection to the FM cannot be a Tee. Must be a wet tap. If this project is forced to extend the sewer from its current location, the correct method of connection will need to be made. - 6.14.5.A(2) - Proposed mains & connections shown:			
<i>Corrections</i>	6.15.4 - Water Main Piping Installation (Resolved) - Corrective Action: C06 – Clearly call out the proposed tap size at the water main connection. The water main located along Marion Oaks Boulevard is a 16-inch main. A 6-inch fire hydrant lead and nine (9) meters cannot be served from a 6-inch tap. Revise to either - Relocate the hydrant to the right-of-way and provide a direct tap to the main, or Install a 6-inch DDC serving a private hydrant. The fire main from the FDC shall be DR-14. Please clarify whether a dedicated fire line connection to the water main is proposed at the single-port Fire Department Connection. - 6.15.4 - Water Main Piping Installation:			
<i>Corrections</i>	6.14.9.B - Transfer of Assets to MCU - PLAN NOTE: (Resolved) - Corrective Action: "This project will require new utility infrastructure outside of the property boundary to be transferred to Marion County Utilities (MCU) through a Bill of Sale. The Bill of Sale package will be provided at the time of the Pre-Construction Meeting and must be completed and returned to MCU prior to FDEP clearance being released. " - 6.14.9.B - Transfer of Assets to MCU - PLAN NOTE::			
<i>Corrections</i>	7.1.3 - UT DETAILS - current LDC version (Resolved) - Corrective Action: C08 - Missing Meter Bank detail (2) Update UT201A and B to the 2023 version 116A and 116B. C09 - Remove UT 205. MCU does not allow butterfly valves. C10 - Remove UT 308 and replace with above-ground ARV UT 316 - 7.1.3 - UT DETAILS - current LDC version: UT details shall be current version based on latest edition of approved LDC			
<i>Corrections</i>	6.15.7 - Cross Connection Control/Backflow (Resolved) - Corrective Action: Informational: A backflow hold will be placed on the building permit. Backflows must be tested and the results reported to crossconnectioncontrol@marionfl.org before the final hold can be released. - 6.15.7 - Cross Connection Control/Backflow:			
<i>Corrections</i>	6.14.4 - Capacity charges - domestic water/sewer (Resolved) - Corrective Action: Informational - 6.14.4 - Capacity charges - domestic water/sewer: Capacity charges to be invoiced and collected by MCU Permitting at time of building permit review - Cap Fee Worksheet and interior floor plan may be required.			
<i>Corrections</i>	MCU Contact Info on Project Cover Sheet (Resolved) - Corrective Action: Correct Contact Info to reflect as provided - MCU Contact Info on Project Cover Sheet: Marion County Utilities, 11800 S US Hwy 441, Belleview FL 34420 - Customer Service 24/7/365 352-307-6000			

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ITEM REVIEW NAME (DEPARTMENT)	ASSIGNED TO	DUE	COMPLETE	STATUS
Utilities (OCE Plans) (Utilities)	Heather Proctor	07/01/2026	07/01/2026	Approved
Corrections	Additional Utilities Comments (Resolved) - Corrective Action: Sheet C02 - Water system notes #48 - remove OCPU system and replace with MCU - Additional Utilities Comments			
Corrections	6.14.8.A - Completion & Closeout - PLAN NOTE: (Resolved) - Corrective Action: Marion County Utilities requires a PDF copy of the utility as-builts for the preliminary walkthrough and project closeout. MCU's GIS and Construction teams will review the PDF as-builts and provide comments. Once all comments have been addressed and revisions made, a DWG/CAD file will be requested to complete the final closeout process. - 6.14.8.A - Completion & Closeout - PLAN NOTE:			
Corrections	6.15.6.B - Irrigation Water Metering - size (Resolved) - Corrective Action: 1" as shown on C06 - 6.15.6.B - Irrigation Water Metering - size:			
Corrections	6.14.5.A(3) - LS layout, elevations, schedules (Resolved) - Corrective Action: Second request - No response to comment letter. Need to provide Lift Station detail sheet. Was a sewer force main pressure test completed to have accurate data for sizing of the lift station? - 6.14.5.A(3) - LS layout, elevations, schedules: Lift station details shall be included on a separate page showing general location of LS with details, working elevations & schedules.			
Corrections	6.14.2 - Connection Requirements (Resolved) - Corrective Action: Second request: The project will be connecting to Marion County Utilities (MCU) water and sewer force main. The existing sewer force main is currently located at the intersection of Marion Oaks Manor and Marion Oaks Boulevard. The site plan must clearly show the off-site connection and any required utility extensions.			
	Parcel 8004-0433-19 has utility-approved plans to extend the sewer force main to that parcel; however, if that project is not completed, this project will be responsible for extending the sewer force main as necessary to provide service to the site. Plan note can state that extension to parcel 8004-0433-19 is proposed by others. - 6.14.2 - Connection Requirements:			
Corrections	6.14.4 - Capacity charges - irrigation (Resolved) - Corrective Action: 1,275 feet - listed on C06 under Irrigation note - 6.14.4 - Capacity charges			
Comments	The project is located within the Marion County Utilities service area and will be served by Marion County Utilities (MCU) for both water and sewer. No active building permit is listed on file.			
	A utility pre-construction meeting is required before any water or wastewater construction may begin. Please contact Development Review Officer Heather Proctor to schedule the meeting.			
	Heather Proctor Email: Heather.Proctor@marionfl.org Direct: (352) 438-2846 Main: (352) 307-6000, Ext. 4			

OCE: Plan Review (DR) v.4

ITEM REVIEW NAME (DEPARTMENT)	ASSIGNED TO	DUE	COMPLETE	STATUS
911 Management (DR) (911 Management)	Jamie Waldron	06/09/2026	06/03/2026	Approved
<i>Corrections</i>	Additional 911 Comments (Resolved) - Corrective Action: Unit numbers needed on Site Plan. On Sheet C04 - when facing the building the 1st floor will be assigned Units 101-104 from left to right and the 2nd floor will be assigned 201-204 from left to right. These unit numbers need to be added to the site plan when applying for permits. Plan Approved.			
Environmental Health (Plans) (Environmental Health)	Evan Searcy	06/09/2026	06/05/2026	Approved
Fire Marshal (Plans) (Fire)	Jonathan Kenning	06/09/2026	06/03/2026	Approved
Growth Services Planning & Zoning (DR) (GS Planning and Zoning)	Jared Rivera	06/09/2026	06/03/2026	Approved
<i>Corrections</i>	2.12.4.L & Article 5 - Overlay zones (Resolved) - [INFO] FEMA Flood Zone X, Secondary Springs Protection Zone, No ESOZ			
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<i>Comments</i>	Please see resolved comments for planning/zoning information. If you have any questions related to this planning/zoning review, please contact jared.rivera@marionfl.org or 352-438-2687.			
Landscape (Plans) (Parks and Recreation)	Susan Heyen	06/09/2026	06/05/2026	Informational
<i>Comments</i>	Landscape plan approved previous submittal			
OCE Design (Plans) (Office of the County Engineer)	Gerald Koch	06/09/2026	06/09/2026	Approved

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OCE Property Management (Plans) (Office of the County Engineer)	Elizabeth Woods	06/09/2026	06/09/2026	Informational
Comments Owner's Certification Updated and approved. -EMW 06.09.2026				
IF APPLICABLE: Sec. 2.18.1.I - Show connections to other phases. Sec.2.19.2.H – Legal Documents Legal documents such as Declaration of Covenants and Restrictions, By-Laws, Articles of Incorporation, ordinances, resolutions, etc. Sec. 6.3.1.B.1 – Required Right of Way Dedication (select as appropriate) For Public Streets. "[All streets and rights-of-way shown on this plat or name specifically if less than all] are hereby dedicated for the use and benefit of the public." Sec. 6.3.1.B.2 – Required Right of Way Dedication For Non-Public Streets. "[All streets and rights-of-way shown on this plat or name specifically if less than all] are hereby dedicated privately to the [entity name]. All public authorities and their personnel providing services to the subdivision are granted an easement for access. The Board of County Commissioners of Marion County, Florida, shall have no responsibility, duty, or liability whatsoever regarding such streets. Marion County is granted an easement for emergency maintenance in the event of a local, state, or federal state of emergency wherein the declaration includes this subdivision or an emergency wherein the health, safety, or welfare of the public is deemed to be at risk." Sec. 6.3.1.D.3 - Cross Access Easements For Cross Access Easements. "All parallel access easements shown on this plat are hereby dedicated for the use and benefit of the public, and maintenance of said easements is the responsibility of [entity name]." Sec. 6.3.1.C.1 - Utility Easements (select as appropriate) "[All utility easements shown or noted or name specifically if less than all] are dedicated [private or to the public] for the construction, installation, maintenance, and operation of utilities by any utility provider." Sec. 6.3.1.C.2 – Utility Easements "[All utility tracts or identify each tract as appropriate] as shown are dedicated [private or to the public] for the construction and maintenance of such facilities." Sec.6.3.1.D(c)(1)(2)(3) - Stormwater easements and facilities, select as appropriate: 1. "[All stormwater and drainage easements as shown or noted or name specifically if less than all] are dedicated [private or to the public] for the construction and maintenance of such facilities." 2. "[All stormwater management tracts or identify each tract as appropriate] as shown are dedicated [private or to the public] for the construction and maintenance of such facilities." 3. When any stormwater easement and/or management tract is not dedicated to the public or Marion County directly, the following statement shall be added to the dedication language: "Marion County is granted the right to perform emergency maintenance on the [stormwater easement and/or management tract, complete accordingly] in the event of a local, state, or federal state of emergency wherein the declaration includes this subdivision or an emergency wherein the health, safety, or welfare of the public is deemed to be at risk." Sec.6.3.1.D(f) – If a Conservation Easement is required the following shall be provided: "A conservation easement [as shown or on tract and identify the tract, complete accordingly] is dedicated to [the Board of County Commissioners of Marion County, Florida or entity name, if not Marion County] for the purpose of preservation of [listed species, habitat, Karst feature and/or native vegetation, complete accordingly]."				
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Comments Please provide a copy of the NPDES permit or NOI as well as a copy of the District permit prior to construction.				
OCE Survey (Plans) (Office of the County Engineer)	Theresa Smail	06/09/2026	06/03/2026	Approved
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ITEM REVIEW NAME (DEPARTMENT)	ASSIGNED TO	DUE	COMPLETE	STATUS
Utilities (OCE Plans) (Utilities)	Heather Proctor	06/09/2026	06/08/2026	Requires Re-submit
<i>Corrections</i>	6.14.5.A(1) - Existing water & sewer mains shown (Resolved) - Corrective Action: Show all mains. Contractor to field locate. - 6.14.5.A(1) - Existing water & sewer mains shown: The entire utility system shall be shown on the plan, including existing water systems and all proposed components within the project area.			
<i>Corrections</i>	6.14.5.A(6) - MH locations, rim & invert elevation (Resolved) - Corrective Action: N/A - 6.14.5.A(6) - MH locations, rim & invert elevation:			
<i>Corrections</i>	6.14.5.A(2) - Proposed mains & connections shown (Not Resolved) - Corrective Action: C06 - Need plug valve at the FM connection (2) Sheet 6.1 the proposed connection to the FM cannot be a Tee. Must be a wet tap. If this project is forced to extend the sewer from its current location, the correct method of connection will need to be made. - 6.14.5.A(2) - Proposed mains & connections shown:			
<i>Corrections</i>	6.14.6 - Utilities design to be owned by MCU (Resolved) - Corrective Action: Informational: A. All utility systems shall be designed for the estimated tributary population. B. All utility systems shall be designed utilizing components with a minimum 30 year life span. C. Systems intended to be owned and maintained by MCU shall be designed for the tributary population and in conformance with the adopted Marion County Utilities Master Plan, as amended. D. Water systems shall be designed to satisfy the domestic water demand and fire protection requirements. E. All systems to be owned, operated, or maintained by MCU shall be subject to a pre-design meeting with MCU .F. All meters shall be located in a meter easement located adjacent to or within the public right-of-way. G. All meters in an MCU maintained system shall be installed and inspected by MCU after receiving payment of applicable fees and charges. H. All pipe shall comply with state standards. I. The engineer shall provide the required lengths of mechanically restrained joints in table form on the plans. - 6.14.6 - Utilities design to be owned by MCU:			
<i>Corrections</i>	6.14.2 - Connection Requirements (Resolved) - Corrective Action: Second request: The project will be connecting to Marion County Utilities (MCU) water and sewer force main. The existing sewer force main is currently located at the intersection of Marion Oaks Manor and Marion Oaks Boulevard. The site plan must clearly show the off-site connection and any required utility extensions. Parcel 8004-0433-19 has utility-approved plans to extend the sewer force main to that parcel; however, if that project is not completed, this project will be responsible for extending the sewer force main as necessary to provide service to the site. Plan note can state that extension to parcel 8004-0433-19 is proposed by others. - 6.14.2 - Connection Requirements:			
<i>Corrections</i>	Review Fee as applicable (per Resolution) (Resolved) - Corrective Action: Informational Plan resubmittal 5/1/26: \$130.00 - Review Fee as applicable (per Resolution): MCU review fee for this submittal			
<i>Corrections</i>	6.14.8.A - Completion & Closeout - PLAN NOTE: (Resolved) - Corrective Action: Marion County Utilities requires a PDF copy of the utility as-builts for the preliminary walkthrough and project closeout. MCU's GIS and Construction teams will review the PDF as-builts and provide comments. Once all comments have been addressed and revisions made, a DWG/CAD file will be requested to complete the final closeout process. - 6.14.8.A - Completion & Closeout - PLAN NOTE:			
<i>Corrections</i>	6.15.3 - Fire Protection/Fire Flow Capacity (Not Resolved) - Corrective Action: Sheet 06 - Backflow preventer needs to be shown directly after the meter. (2) install a gate valve near on the PWS meter side of the tee from the wet tap, so MCU doesn't have to shut down the fire line if repairs on the potable meters are required (see plan comments) - 6.15.3 - Fire Protection/Fire Flow Capacity:			
<i>Corrections</i>	6.14.9.B - Transfer of Assets to MCU - PLAN NOTE: (Resolved) - Corrective Action: "This project will require new utility infrastructure outside of the property boundary to be transferred to Marion County Utilities (MCU) through a Bill of Sale. The Bill of Sale package will be provided at the time of the Pre-Construction Meeting and must be completed and returned to MCU prior to FDEP clearance being released. " - 6.14.9.B - Transfer of Assets to MCU - PLAN NOTE::			
<i>Corrections</i>	6.14.5.C - Hydraulic Analysis (Resolved) - Corrective Action: Second request - we need waste water analysis Submit (or revise if marked up) a hydraulic analysis to support the project. The Hydraulic Analysis has not been provided for this site. (LDC 6.14.5.C) - 6.14.5.C - Hydraulic Analysis: The hydraulic analysis is required to analyze the water or wastewater pressures in this area.			
<i>Corrections</i>	6.15.6.D - Meter Location (Resolved) - Corrective Action: Second request C06 - Move meter boxes into the ROW at the property line and label "end of county maintenance". 1" Header is not the appropriate size for 9 meters. Must size appropriately. MCU will install dual checks on residential meters. Backflow is not necessary for the unit meters. Keep the backflow on irrigation and call out on the plans. - 6.15.6.D - Meter Location:			
<i>Corrections</i>	6.14.4 - Capacity charges - irrigation (Resolved) - Corrective Action: 1,275 feet - listed on C06 under Irrigation note - 6.14.4 - Capacity charges			
<i>Corrections</i>	Parcel numbers match project area (Resolved) - Corrective Action: Correct Parcel Number(s) or Project Area footprint - YES 8004-0433-18 - Parcel numbers match project area: The parcels(s) shown on the application and/or site plan must match the project area.			
<i>Corrections</i>	6.14.5.B - Submit permits to MCU (DOT, ROW etc) (Resolved) - Corrective Action: Informational: Copies of all related permit applications and issued permits must be submitted to the Marion County Utilities Department prior to, or at the time of, the Pre-Construction Meeting. - 6.14.5.B - Submit permits to MCU (DOT, ROW etc): A copy of any permit issued to the contractor shall also be submitted to MCU's Construction Manager, or designee.			
<i>Corrections</i>	6.15.4 - Water Main Piping Installation (Resolved) - Corrective Action: C06 – Clearly call out the proposed tap size at the water main connection. The water main located along Marion Oaks Boulevard is a 16-inch main. A 6-inch fire hydrant lead and nine (9) meters cannot be served from a 6-inch tap. Revise to either - Relocate the hydrant to the right-of-way and provide a direct tap to the main, or Install a 6-inch DDC serving a private hydrant. The fire main from the FDC shall be DR-14. Please clarify whether a dedicated fire line connection to the water main is proposed at the single-port Fire Department Connection. - 6.15.4 - Water Main Piping Installation:			
<i>Corrections</i>	6.14.7 - Construction Inspection - PLAN NOTE: (Resolved) - Corrective Action: Add note to Utility Sheet(s) MCU personnel are to inspect any work performed on or around existing MCU infrastructure. A pre-construction meeting is required to be held a minimum of 48 hours prior to start of any construction. If the pre-construction meeting is not completed, any work may be halted. To schedule, contact MCU's Construction Division, 352) 307-6000, ext. 5 or MCUconstruction@marionfl.org - 6.14.7 - Construction Inspection - PLAN NOTE			
<i>Corrections</i>	6.15.4 - Water Distribution System (Resolved) - Corrective Action: Tap for hydrant @ hydrant. Do not run water service to it. - 6.15.4 - Water Distribution System:			
<i>Corrections</i>	6.15.6.B - Irrigation Water Metering - size (Resolved) - Corrective Action: 1" as shown on C06 - 6.15.6.B - Irrigation Water Metering - size:			

SUBMITTAL SUMMARY REPORT (MajorSite-000060-2025)

ITEM REVIEW NAME (DEPARTMENT)	ASSIGNED TO	DUE	COMPLETE	STATUS
Utilities (OCE Plans) (Utilities)	Heather Proctor	06/09/2026	06/08/2026	Requires Re-submit
Corrections	6.14.5.A(3) - LS layout, elevations, schedules (Resolved) - Corrective Action: Second request - No response to comment letter. Need to provide Lift Station detail sheet. Was a sewer force main pressure test completed to have accurate data for sizing of the lift station? - 6.14.5.A(3) - LS layout, elevations, schedules: Lift station details shall be included on a separate page showing general location of LS with details, working elevations & schedules.			
Corrections	6.15.7 - Cross Connection Control/Backflow (Resolved) - Corrective Action: Informational: A backflow hold will be placed on the building permit. Backflows must be tested and the results reported to crossconnectioncontrol@marionfl.org before the final hold can be released. - 6.15.7 - Cross Connection Control/Backflow:			
Corrections	MCU Contact Info on Project Cover Sheet (Resolved) - Corrective Action: Correct Contact Info to reflect as provided - MCU Contact Info on Project Cover Sheet: Marion County Utilities, 11800 S US Hwy 441, Belleview FL 34420 - Customer Service 24/7/365 352-307-6000			
Corrections	7.1.3 - UT DETAILS - current LDC version (Resolved) - Corrective Action: C08 - Missing Meter Bank detail (2) Update UT201A and B to the 2023 version 116A and 116B. C09 - Remove UT 205. MCU does not allow butterfly valves. C10 - Remove UT 308 and replace with above-ground ARV UT 316 - 7.1.3 - UT DETAILS - current LDC version: UT details shall be current version based on latest edition of approved LDC			
Corrections	6.14.5.B - FDEP PWS and/or WW permits (Resolved) - Corrective Action: Informational: The Engineer of Record is responsible for requesting and submitting the appropriate FDEP Public Water System (PWS) and/or Wastewater (WW) permit applications, if applicable. All applications must be signed and sealed prior to submission for Marion County Utilities' signature and must be provided before the Utilities Pre-Construction meeting. - 6.14.5.B - FDEP PWS and/or WW permits			
Corrections	Additional Utilities Comments (Not Resolved) - Corrective Action: Sheet C02 - Water system notes #48 - remove OCPU system and replace with MCU - Additional Utilities Comments			
Comments	Please see the corrective comments and plan markups.			
Please submit the revised utility plans to Heather.Proctor@Marionfl.org for review prior to your next submittal in Civic Access.				

REVIEW SESSION FILES: 351 Marion Oaks Civil Plans_v2.pdf
O&M.pdf
Proof of Ownership Documentation.pdf

REVIEWER	MARKUP	DATE/TIME	FILE NAME	PG #
Heather Proctor	Add gate valve here	06/08/2026 10:53	AM351 Marion Oaks Civil Plans_v2.pdf	7
Heather Proctor	RESUBMIT	06/08/2026 10:54	AM351 Marion Oaks Civil Plans_v2.pdf	1

OCE: Plan Review (DR) v.3

ITEM REVIEW NAME (DEPARTMENT)	ASSIGNED TO	DUE	COMPLETE	STATUS
911 Management (DR) (911 Management)	Kristie Wright	05/01/2026	04/30/2026	Approved
<i>Corrections</i>	Additional 911 Comments (Resolved) - Corrective Action: Unit numbers needed on Site Plan. On Sheet C04 - when facing the building the 1st floor will be assigned Units 101-104 from left to right and the 2nd floor will be assigned 201-204 from left to right. These unit numbers need to be added to the site plan when applying for permits. Plan Approved.			
Environmental Health (Plans) (Environmental Health)	Evan Searcy	05/01/2026	05/01/2026	Approved
Fire Marshal (Plans) (Fire)	Jonathan Kenning	05/01/2026	04/24/2026	Approved
Growth Services Planning & Zoning (DR) (GS Planning and Zoning)	Jared Rivera	05/01/2026	04/27/2026	Informational
<i>Corrections</i>	2.12.4.L & Article 5 - Overlay zones (Resolved) - [INFO] FEMA Flood Zone X, Secondary Springs Protection Zone, No ESOZ			
<i>Corrections</i>	2.12.4/6.11.8 - Parking (Resolved) - [INFO] Please note that parking lot landscaping will need to be provided consistent with LDC Sec. 6.8.7			
<i>Corrections</i>	2.12.16/6.5 - EALS or Exemption provided (Resolved) - [INFO] EALS submitted and transmitted to FWC on 12/10/25.			
<i>Corrections</i>	2.12.27 - Location & screening of outside storage (Resolved) - [INFO] No outdoor storage			
<i>Corrections</i>	2.12.5/1.8.2.D - Traffic Concurrency Evaluation? (Resolved) - [INFO] Please coordinate with OCE regarding improvements based on required traffic impact analysis.			
<i>Comments</i>	For any questions related to this Planning/Zoning review, please contact jared.rivera@marionfl.org or 352-438-2687.			
Landscape (Plans) (Parks and Recreation)	Susan Heyen	05/01/2026	04/30/2026	Approved
OCE Design (Plans) (Office of the County Engineer)	William Poole	05/01/2026	04/28/2026	Approved

SUBMITTAL SUMMARY REPORT (MajorSite-000060-2025)

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OCE Property Management (Plans) (Office of the County Engineer)	Delenie Roman	05/01/2026	04/30/2026	Requires Re-submit
<i>Comments</i>	Road Project Map checked. Sunbiz not Active. Please update Owner's Certification or in the alternative show new ownership documentation. Please ensure that signer's authority documents are uploaded at time of correction. IF APPLICABLE: Sec. 2.18.1.I - Show connections to other phases. Sec.2.19.2.H – Legal Documents Legal documents such as Declaration of Covenants and Restrictions, By-Laws, Articles of Incorporation, ordinances, resolutions, etc. Sec. 6.3.1.B.1 – Required Right of Way Dedication (select as appropriate) For Public Streets. "[All streets and rights-of-way shown on this plat or name specifically if less than all] are hereby dedicated for the use and benefit of the public." Sec. 6.3.1.B.2 – Required Right of Way Dedication For Non-Public Streets. "[All streets and rights-of-way shown on this plat or name specifically if less than all] are hereby dedicated privately to the [entity name]. All public authorities and their personnel providing services to the subdivision are granted an easement for access. The Board of County Commissioners of Marion County, Florida, shall have no responsibility, duty, or liability whatsoever regarding such streets. Marion County is granted an easement for emergency maintenance in the event of a local, state, or federal state of emergency wherein the declaration includes this subdivision or an emergency wherein the health, safety, or welfare of the public is deemed to be at risk." Sec. 6.3.1.D.3 - Cross Access Easements For Cross Access Easements. "All parallel access easements shown on this plat are hereby dedicated for the use and benefit of the public, and maintenance of said easements is the responsibility of [entity name]." Sec. 6.3.1.C.1 - Utility Easements (select as appropriate) "[All utility easements shown or noted or name specifically if less than all] are dedicated [private or to the public] for the construction, installation, maintenance, and operation of utilities by any utility provider." Sec. 6.3.1.C.2 – Utility Easements "[All utility tracts or identify each tract as appropriate] as shown are dedicated [private or to the public] for the construction and maintenance of such facilities." Sec.6.3.1.D(c)(1)(2)(3) - Stormwater easements and facilities, select as appropriate: 1. "[All stormwater and drainage easements as shown or noted or name specifically if less than all] are dedicated [private or to the public] for the construction and maintenance of such facilities." 2. "[All stormwater management tracts or identify each tract as appropriate] as shown are dedicated [private or to the public] for the construction and maintenance of such facilities." 3. When any stormwater easement and/or management tract is not dedicated to the public or Marion County directly, the following statement shall be added to the dedication language: "Marion County is granted the right to perform emergency maintenance on the [stormwater easement and/or management tract, complete accordingly] in the event of a local, state, or federal state of emergency wherein the declaration includes this subdivision or an emergency wherein the health, safety, or welfare of the public is deemed to be at risk." Sec.6.3.1.D(f) – If a Conservation Easement is required the following shall be provided: "A conservation easement [as shown or on tract and identify the tract, complete accordingly] is dedicated to [the Board of County Commissioners of Marion County, Florida or entity name, if not Marion County] for the purpose of preservation of [listed species, habitat, Karst feature and/or native vegetation, complete accordingly]." DR 4/30/26			
OCE Stormwater (Permits & Plans) (Office of the County Engineer)	Alexander Turnipseed	05/01/2026	04/28/2026	Requires Re-submit
<i>Corrections</i>	Additional Stormwater comments (Not Resolved) - (1) INFO: Please provide a copy of the NPDES permit or NOI as well as a copy of the District permit prior to construction. (2) INFO: If you have questions or would like to discuss the stormwater review comments, please contact Alexander Turnipseed at (352) 671-8376 or at alexander.turnipseed@marionfl.org.			
<i>Corrections</i>	6.13.2.B(8) - Calculation & Plan Consistency (Not Resolved) - Corrective Action: This item will be reviewed upon resubmittal - 6.13.2.B(8) - Calculation & Plan Consistency: Calculations must be consistent with the plan sheets and other supporting details. Calculations shall use standard methodology recognized in the State of Florida, including hand and/or computerized calculations.			
<i>Corrections</i>	6.13.12 - Operation and Maintenance (Not Resolved) - The O&M manual a standalone document from the plans and calculations.			
OCE Survey (Plans) (Office of the County Engineer)	Theresa Smail	05/01/2026	04/28/2026	Approved
<i>Corrections</i>	2.12.8. - Current boundary and topographic survey (Resolved) - 2.12.8. - Current boundary and topographic survey: Current boundary and topographic survey (one foot contour intervals extending 100 feet beyond the project boundary) based upon accepted vertical datum. Surveys will be less than 12 months old and accurately reflect current site conditions, meeting standards set forth in Ch. 5J-17 FAC. Alternate topographic data may be accepted if pre-approved by the Marion County Land Surveyor.			
<i>Corrections</i>	6.4.7. Construction Plans - Survey Requirements (Resolved) - Corrective Action: 6.4.7.B(1) - Show a minimum of two intervisible horizontal control points per site. 6.4.7.B(2) - Horizontal control points shall be monumented and referenced to the Florida State Plane Coordinate System 6.4.7.B(4) - Provide a statement or table detailing horizontal datum, adjustment, and coordinate values - 6.4.7. Construction Plans - Survey Requirements: Survey information to support construction plans, including but not limited to Mass Grading, Improvement, or Major Site plans, shall meet requirements as set forth in Ch. 5J-17 FAC in addition to the following as identified in Section 6.4.7.A. through H. of the LDC.			
OCE Traffic (Permits & Plans) (Office of the County Engineer)	Chris Zeigler	05/01/2026	04/26/2026	Approved
<i>Corrections</i>	6.12.12 - Sidewalks (Resolved) - Corrective Action: Sidewalk is required along Marion Oaks Blvd. Staff supports payment of a fee in-lieu of sidewalk construction. A waiver must be approved by the Development Review Committee to allow the payment of a fee in-lieu of construction. If approved by the DRC the fee comes out to \$2,400.00 and must be paid prior to final plan approval. - 6.12.12 - Sidewalks: Show sidewalk on the plans as required in section 6.12.12.			

SUBMITTAL SUMMARY REPORT (MajorSite-000060-2025)

ITEM REVIEW NAME (DEPARTMENT)	ASSIGNED TO	DUE	COMPLETE	STATUS
OCE Traffic (Permits & Plans) (Office of the County Engineer)	Chris Zeigler	05/01/2026	04/26/2026	Approved
Corrections	6.11.4.B - Cross access (Resolved) - Corrective Action: Provide the executed public parallel access easement. The template for the public easement can be obtained from the Development Review Office at developmentreview@marionfl.org or 352-671-8686. The executed template and recording fees must be returned to the Development Review Office prior to final plan approval. - 6.11.4.B - Cross access: Provide a 24' wide paved cross access easement as specified in 6.11.4.B			
Utilities (OCE Plans) (Utilities)	Heather Proctor	05/01/2026	05/01/2026	Requires Re-submit
Corrections	7.1.3 - UT DETAILS - current LDC version (Resolved) - Corrective Action: C08 - Missing Meter Bank detail (2) Update UT201A and B to the 2023 version 116A and 116B. C09 - Remove UT 205. MCU does not allow butterfly valves. C10 - Remove UT 308 and replace with above-ground ARV UT 316 - 7.1.3 - UT DETAILS - current LDC version: UT details shall be current version based on latest edition of approved LDC			
Corrections	6.14.5.B - FDEP PWS and/or WW permits (Resolved) - Corrective Action: Informational: The Engineer of Record is responsible for requesting and submitting the appropriate FDEP Public Water System (PWS) and/or Wastewater (WW) permit applications, if applicable. All applications must be signed and sealed prior to submission for Marion County Utilities' signature and must be provided before the Utilities Pre-Construction meeting. - 6.14.5.B - FDEP PWS and/or WW permits			
Corrections	6.14.5.A(6) - MH locations, rim & invert elevation (Resolved) - Corrective Action: N/A - 6.14.5.A(6) - MH locations, rim & invert elevation:			
Corrections	MCU Contact Info on Project Cover Sheet (Resolved) - Corrective Action: Correct Contact Info to reflect as provided - MCU Contact Info on Project Cover Sheet: Marion County Utilities, 11800 S US Hwy 441, Belleview FL 34420 - Customer Service 24/7/365 352-307-6000			
Corrections	6.14.7 - Construction Inspection - PLAN NOTE: (Resolved) - Corrective Action: Add note to Utility Sheet(s) MCU personnel are to inspect any work performed on or around existing MCU infrastructure. A pre-construction meeting is required to be held a minimum of 48 hours prior to start of any construction. If the pre-construction meeting is not completed, any work may be halted. To schedule, contact MCU's Construction Division, 352) 307-6000, ext. 5 or MCUconstruction@marionfl.org - 6.14.7 - Construction Inspection - PLAN NOTE			
Corrections	6.14.5.A(3) - LS layout, elevations, schedules (Resolved) - Corrective Action: Second request - No response to comment letter. Need to provide Lift Station detail sheet. Was a sewer force main pressure test completed to have accurate data for sizing of the lift station? - 6.14.5.A(3) - LS layout, elevations, schedules: Lift station details shall be included on a separate page showing general location of LS with details, working elevations & schedules.			
Corrections	6.15.4 - Water Distribution System (Resolved) - Corrective Action: Tap for hydrant @ hydrant. Do not run water service to it. - 6.15.4 - Water Distribution System:			
Corrections	6.14.5.A(2) - Proposed mains & connections shown (Not Resolved) - Corrective Action: Second request: C06 - Show method of connection to force main. (2) install plug valve at property line and label "end of county maintenance" - 6.14.5.A (2) - Proposed mains & connections shown:			
Corrections	Parcel numbers match project area (Resolved) - Corrective Action: Correct Parcel Number(s) or Project Area footprint - YES 8004-0433-18 - Parcel numbers match project area: The parcels(s) shown on the application and/or site plan must match the project area.			
Corrections	6.14.2 - Connection Requirements (Resolved) - Corrective Action: Second request: The project will be connecting to Marion County Utilities (MCU) water and sewer force main. The existing sewer force main is currently located at the intersection of Marion Oaks Manor and Marion Oaks Boulevard. The site plan must clearly show the off-site connection and any required utility extensions.			
Corrections	Parcel 8004-0433-19 has utility-approved plans to extend the sewer force main to that parcel; however, if that project is not completed, this project will be responsible for extending the sewer force main as necessary to provide service to the site. Plan note can state that extension to parcel 8004-0433-19 is proposed by others. - 6.14.2 - Connection Requirements:			
Corrections	6.15.4 - Water Main Piping Installation (Resolved) - Corrective Action: C06 – Clearly call out the proposed tap size at the water main connection. The water main located along Marion Oaks Boulevard is a 16-inch main. A 6-inch fire hydrant lead and nine (9) meters cannot be served from a 6-inch tap. Revise to either - Relocate the hydrant to the right-of-way and provide a direct tap to the main, or Install a 6-inch DDC serving a private hydrant. The fire main from the FDC shall be DR-14. Please clarify whether a dedicated fire line connection to the water main is proposed at the single-port Fire Department Connection. - 6.15.4 - Water Main Piping Installation:			
Corrections	6.14.4 - Capacity charges - domestic water/sewer (Resolved) - Corrective Action: Informational - 6.14.4 - Capacity charges - domestic water/sewer: Capacity charges to be invoiced and collected by MCU Permitting at time of building permit review - Cap Fee Worksheet and interior floor plan may be required.			
Corrections	6.14.5.B - Submit permits to MCU (DOT, ROW etc) (Resolved) - Corrective Action: Informational: Copies of all related permit applications and issued permits must be submitted to the Marion County Utilities Department prior to, or at the time of, the Pre-Construction Meeting. - 6.14.5.B - Submit permits to MCU (DOT, ROW etc): A copy of any permit issued to the contractor shall also be submitted to MCU's Construction Manager, or designee.			
Corrections	Review Fee as applicable (per Resolution) (Resolved) - Corrective Action: Informational Plan resubmittal 5/1/26: \$130.00 - Review Fee as applicable (per Resolution): MCU review fee for this submittal			
Corrections	6.14.5.A(1) - Existing water & sewer mains shown (Resolved) - Corrective Action: Show all mains. Contractor to field locate. - 6.14.5.A(1) - Existing water & sewer mains shown: The entire utility system shall be shown on the plan, including existing water systems and all proposed components within the project area.			
Corrections	6.15.6.B - Irrigation Water Metering - size (Resolved) - Corrective Action: 1" as shown on C06 - 6.15.6.B - Irrigation Water Metering - size:			
Corrections	6.14.8.A - Completion & Closeout - PLAN NOTE: (Resolved) - Corrective Action: Marion County Utilities requires a PDF copy of the utility as-builts for the preliminary walkthrough and project closeout. MCU's GIS and Construction teams will review the PDF as-builts and provide comments. Once all comments have been addressed and revisions made, a DWG/CAD file will be requested to complete the final closeout process. - 6.14.8.A - Completion & Closeout - PLAN NOTE:			

SUBMITTAL SUMMARY REPORT (MajorSite-000060-2025)

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Utilities (OCE Plans) (Utilities)	Heather Proctor	05/01/2026	05/01/2026	Requires Re-submit
<i>Corrections</i>	6.15.3 - Fire Protection/Fire Flow Capacity (Not Resolved) - Corrective Action: Easement needed on utility plan over fire line for maintenance and inspection (See plan markups). Informational Please see plan notes for potential FDC relocation. (2) Water service will be provided by Marion County Utilities. Please consult with Marion County Fire Rescue for any additional comments or requirements related to fire protection. - 6.15.3 - Fire Protection/Fire Flow Capacity:			
<i>Corrections</i>	6.15.7 - Cross Connection Control/Backflow (Resolved) - Corrective Action: Informational: A backflow hold will be placed on the building permit. Backflows must be tested and the results reported to crossconnectioncontrol@marionfl.org before the final hold can be released. - 6.15.7 - Cross Connection Control/Backflow:			
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<i>Corrections</i>	6.14.5.C - Hydraulic Analysis (Resolved) - Corrective Action: Second request - we need waste water analysis Submit (or revise if marked up) a hydraulic analysis to support the project. The Hydraulic Analysis has not been provided for this site. (LDC 6.14.5.C) - 6.14.5.C - Hydraulic Analysis: The hydraulic analysis is required to analyze the water or wastewater pressures in this area.			
<i>Corrections</i>	Additional Utilities Comments (Resolved) - Corrective Action: There are no resubmittal comments uploaded. - Additional Utilities Comments			
<i>Corrections</i>	6.14.6 - Utilities design to be owned by MCU (Resolved) - Corrective Action: Informational: A. All utility systems shall be designed for the estimated tributary population. B. All utility systems shall be designed utilizing components with a minimum 30 year life span. C. Systems intended to be owned and maintained by MCU shall be designed for the tributary population and in conformance with the adopted Marion County Utilities Master Plan, as amended. D. Water systems shall be designed to satisfy the domestic water demand and fire protection requirements. E. All systems to be owned, operated, or maintained by MCU shall be subject to a pre-design meeting with MCU .F. All meters shall be located in a meter easement located adjacent to or within the public right-of-way. G. All meters in an MCU maintained system shall be installed and inspected by MCU after receiving payment of applicable fees and charges. H. All pipe shall comply with state standards. I. The engineer shall provide the required lengths of mechanically restrained joints in table form on the plans. - 6.14.6 - Utilities design to be owned by MCU:			
<i>Corrections</i>	6.14.4 - Capacity charges - irrigation (Resolved) - Corrective Action: 1,275 feet - listed on C06 under Irrigation note - 6.14.4 - Capacity charges			
<i>Corrections</i>	6.14.9.B - Transfer of Assets to MCU - PLAN NOTE: (Resolved) - Corrective Action: "This project will require new utility infrastructure outside of the property boundary to be transferred to Marion County Utilities (MCU) through a Bill of Sale. The Bill of Sale package will be provided at the time of the Pre-Construction Meeting and must be completed and returned to MCU prior to FDEP clearance being released. " - 6.14.9.B - Transfer of Assets to MCU - PLAN NOTE::			
<i>Comments</i>	Please see Corrections and Plan Markups			

REVIEW SESSION FILES:

- 351 Marion Oaks Blvd Lift Station Design Report Rev 041926 SS.pdf
- 351 Marion Oaks Civil Plans_v2.pdf
- Comment Response Letter 2026-04-07.pdf
- Drainage Report SS & Hydraulic Analysis SS.pdf
- Landscape Plans_v1.pdf
- Survey_v2.pdf

REVIEWER	MARKUP	DATE/TIME	FILE NAME	PG #
Heather Proctor	Need Plug valve at connection point as well as at property line.	05/01/2026 4:27	PM351 Marion Oaks Civil Plans_v2.pdf	7
Heather Proctor	Need easement called out on plan.	05/01/2026 4:28	PM351 Marion Oaks Civil Plans_v2.pdf	7
Heather Proctor	Meter banks must be 2" tap per UT202. Could do only 1 tap, sized appropriately and make the meter bank for all meters. EoR to determine what the appropriate size should be based on demand.	05/01/2026 4:29	PM351 Marion Oaks Civil Plans_v2.pdf	7
Heather Proctor	Tap the fire hydrant with a 16x6 seperate. Right at the hydrant location. No need to extend the water service to it.	05/01/2026 4:29	PM351 Marion Oaks Civil Plans_v2.pdf	7
Heather Proctor	If this is the final CO, it doesn't need to be angled towards the building.	05/01/2026 4:31	PM351 Marion Oaks Civil Plans_v2.pdf	7
Heather Proctor	Need to make a plan note for the contractor where the proposed FM extension will be for 32203 - so they can bid it with the extension and if the extension gets halted.	05/01/2026 4:36	PM351 Marion Oaks Civil Plans_v2.pdf	8

OCE: Plan Review (DR) v.2

ITEM REVIEW NAME (DEPARTMENT)	ASSIGNED TO	DUE	COMPLETE	STATUS
911 Management (DR) (911 Management)	Jamie Waldron	02/25/2026	02/20/2026	Approved
<i>Corrections</i>	Additional 911 Comments (Resolved) - Corrective Action: Unit numbers needed on Site Plan. On Sheet C04 - when facing the building the 1st floor will be assigned Units 101-104 from left to right and the 2nd floor will be assigned 201-204 from left to right. These unit numbers need to be added to the site plan when applying for permits. Plan Approved.			
Environmental Health (Plans) (Environmental Health)	Evan Searcy	02/25/2026	02/26/2026	Approved
Fire Marshal (Plans) (Fire)	Jonathan Kenning	02/25/2026	02/18/2026	Approved
<i>Comments</i>	Previously Approved			

SUBMITTAL SUMMARY REPORT (MajorSite-000060-2025)

ITEM REVIEW NAME (DEPARTMENT)	ASSIGNED TO	DUE	COMPLETE	STATUS
Growth Services Planning & Zoning (DR) (GS Planning and Zoning)	Jared Rivera	02/25/2026	02/20/2026	Informational
Corrections	2.12.4.L - DRI/FQD Compliance Note (Resolved) - [2/18/26-INFO] Included in cover sheet [INITIAL] Specifically revise the plan to add the following advisory note: "DEVELOPMENT OF THE PROPERTY AS SHOWN ON THIS [SITE PLAN/SUBDIVISION PLAT] IS SUBJECT TO THE TERMS AND CONDITIONS OF THE MARION OAKS VESTED DRI AND ITS CORRESPONDING VESTED RIGHTS DETERMINATIONS, AS MAY BE AMENDED FROM TIME TO TIME, INCLUDING PROVISIONS REGARDING THE CONCURRENCY OF PUBLIC FACILITIES."			
Corrections	2.12 - Rezoning (Resolved) - [2/17/26-INFO] Included in cover sheet. [INITIAL] Please indicate Rezoning Case No. 250707ZP on cover sheet.			
Corrections	2.12.5/1.8.2.D - Traffic Concurrency Evaluation? (Resolved) - [INFO] Please coordinate with OCE regarding improvements based on required traffic impact analysis.			
Corrections	2.12.27 - Location & screening of outside storage (Resolved) - [INFO] No outdoor storage			
Corrections	2.12/4.2 - Building height (Resolved) - [2/18/26-INFO] Included. [INITIAL] Building heights are missing. Please provide in the site data table on cover/site plan sheets			
Corrections	2.12.24 - Landscape requirements/6.8.6 - Buffering (Resolved) - [INFO] (1) Buffers have been delineated but specific plantings do not seem to have been identified. Please note that in the case that the buffers are cleared, a zoning code violation would exist and the site may be subject to the code enforcement process, at the property owner's risk. (2) Please note that A/C shall be screened consistent with LDC Sec. 6.8.9.			
Corrections	2.12.4.L & Article 5 - Overlay zones (Resolved) - [INFO] FEMA Flood Zone X, Secondary Springs Protection Zone, No ESOZ			
Corrections	2.12.16/6.5 - EALS or Exemption provided (Resolved) - [INFO] EALS submitted and transmitted to FWC on 12/10/25.			
Corrections	2.12.4/6.11.8 - Parking (Resolved) - [INFO] Please note that parking lot landscaping will need to be provided consistent with LDC Sec. 6.8.7			
Comments	See resolved items for informational comments. If you have any questions regarding Planning/Zoning review, please contact jared.rivera@marionfl.org or 352-438-2687.			
Landscape (Plans) (Parks and Recreation)	Susan Heyen	02/25/2026	02/20/2026	Requires Re-submit
Comments	1. waiver for parking islands 2. dumpster and lighting question - see plan for markups			
OCE Design (Plans) (Office of the County Engineer)	Gerald Koch	02/25/2026	02/23/2026	Approved
OCE Property Management (Plans) (Office of the County Engineer)	Elizabeth Woods	02/25/2026	02/26/2026	Requires Re-submit
Comments	Please add owner's certification and signer's information to the cover sheet of the civil plans for review. -EMW 02.26.2026			
IF APPLICABLE: Sec. 2.18.1.I - Show connections to other phases. Sec.2.19.2.H – Legal Documents Legal documents such as Declaration of Covenants and Restrictions, By-Laws, Articles of Incorporation, ordinances, resolutions, etc. Sec. 6.3.1.B.1 – Required Right of Way Dedication (select as appropriate) For Public Streets. "[All streets and rights-of-way shown on this plat or name specifically if less than all] are hereby dedicated for the use and benefit of the public." Sec. 6.3.1.B.2 – Required Right of Way Dedication For Non-Public Streets. "[All streets and rights-of-way shown on this plat or name specifically if less than all] are hereby dedicated privately to the [entity name]. All public authorities and their personnel providing services to the subdivision are granted an easement for access. The Board of County Commissioners of Marion County, Florida, shall have no responsibility, duty, or liability whatsoever regarding such streets. Marion County is granted an easement for emergency maintenance in the event of a local, state, or federal state of emergency wherein the declaration includes this subdivision or an emergency wherein the health, safety, or welfare of the public is deemed to be at risk." Sec. 6.3.1.D.3 - Cross Access Easements For Cross Access Easements. "All parallel access easements shown on this plat are hereby dedicated for the use and benefit of the public, and maintenance of said easements is the responsibility of [entity name]." Sec. 6.3.1.C.1 - Utility Easements (select as appropriate) "[All utility easements shown or noted or name specifically if less than all] are dedicated [private or to the public] for the construction, installation, maintenance, and operation of utilities by any utility provider." Sec. 6.3.1.C.2 – Utility Easements "[All utility tracts or identify each tract as appropriate] as shown are dedicated [private or to the public] for the construction and maintenance of such facilities." Sec.6.3.1.D(c)(1)(2)(3) - Stormwater easements and facilities, select as appropriate: 1. "[All stormwater and drainage easements as shown or noted or name specifically if less than all] are dedicated [private or to the public] for the construction and maintenance of such facilities." 2. "[All stormwater management tracts or identify each tract as appropriate] as shown are dedicated [private or to the public] for the construction and maintenance of such facilities." 3. When any stormwater easement and/or management tract is not dedicated to the public or Marion County directly, the following statement shall be added to the dedication language: "Marion County is granted the right to perform emergency maintenance on the [stormwater easement and/or management tract, complete accordingly] in the event of a local, state, or federal state of emergency wherein the declaration includes this subdivision or an emergency wherein the health, safety, or welfare of the public is deemed to be at risk." Sec.6.3.1.D(f) – If a Conservation Easement is required the following shall be provided: "A conservation easement [as shown or on tract and identify the tract, complete accordingly] is dedicated to [the Board of County Commissioners of Marion County, Florida or entity name, if not Marion County] for the purpose of preservation of [listed species, habitat, Karst feature and/or native vegetation, complete accordingly]."				

SUBMITTAL SUMMARY REPORT (MajorSite-000060-2025)

ITEM REVIEW NAME (DEPARTMENT)	ASSIGNED TO	DUE	COMPLETE	STATUS
OCE Stormwater (Permits & Plans) (Office of the County Engineer)	Alexander Turnipseed	02/23/2026	02/18/2026	Requires Re-submit
Corrections	Additional Stormwater comments (Not Resolved) - (1) INFO: Please provide a copy of the NPDES permit or NOI as well as a copy of the District permit prior to construction. (2) INFO: If you have questions or would like to discuss the stormwater review comments, please contact Alexander Turnipseed at (352) 671-8376 or at alexander.turnipseed@marionfl.org.			
Corrections	6.13.2.B(8) - Calculation & Plan Consistency (Not Resolved) - Corrective Action: This item will be reviewed upon resubmittal - 6.13.2.B(8) - Calculation & Plan Consistency: Calculations must be consistent with the plan sheets and other supporting details. Calculations shall use standard methodology recognized in the State of Florida, including hand and/or computerized calculations.			
Corrections	6.13.12 - Operation and Maintenance (Not Resolved) - Corrective Action: An operation and maintenance manual is required for all projects. This is a standalone document from the plans and calculations. If you need an example of O&M documents that have been approved in the past, contact the stormwater department. The O&M manual will need to have the following certification on the cover: "I hereby certify that I, my successors, and assigns shall perpetually operate and maintain the stormwater management system and associated elements in accordance with the specifications shown herein and on the approved plans." This certification must be signed by the current property owner or their authorized representative. We used the State of Florida Sunbiz website to verify agents/member/officers of business entities. If the owner is an out of state organization we will need to see articles of incorporation/organization to verify the authority of the individual signing the certifications. For property ownership, we use the Marion County Property Appraiser's website. If you need an example contact the stormwater department. - 6.13.12 - Operation and Maintenance: Provide an O&M manual detailing the steps for operating and maintaining the proposed private system of DRAs, pipes, inlets, swales, etc. Manual shall be signed by Owner and owner's certification statement shall be on the manual. Owner's certification statement: "I hereby certify that I, my successors, and assigns shall perpetually operate and maintain the stormwater management and associated elements in accordance with the specifications shown herein and on the approved plan".			
OCE Survey (Plans) (Office of the County Engineer)	Theresa Smail	02/25/2026	02/23/2026	Requires Re-submit
Corrections	2.12.8. - Current boundary and topographic survey (Resolved) - 2.12.8. - Current boundary and topographic survey: Current boundary and topographic survey (one foot contour intervals extending 100 feet beyond the project boundary) based upon accepted vertical datum. Surveys will be less than 12 months old and accurately reflect current site conditions, meeting standards set forth in Ch. 5J-17 FAC. Alternate topographic data may be accepted if pre-approved by the Marion County Land Surveyor.			
Corrections	6.4.7. Construction Plans - Survey Requirements (Not Resolved) - Corrective Action: 6.4.7.B(1) - Show a minimum of two intervisible horizontal control points per site. 6.4.7.B(2) - Horizontal control points shall be monumented and referenced to the Florida State Plane Coordinate System 6.4.7.B(4) - Provide a statement or table detailing horizontal datum, adjustment, and coordinate values - 6.4.7. Construction Plans - Survey Requirements: Survey information to support construction plans, including but not limited to Mass Grading, Improvement, or Major Site plans, shall meet requirements as set forth in Ch. 5J-17 FAC in addition to the following as identified in Section 6.4.7.A. through H. of the LDC.			
Comments	Response to Comments Not Provided Public Ingress-Egress Easement (Cross Access) uploaded to this area. 6.4.7. Construction Plans - Survey Requirements: Survey information to support construction plans, including but not limited to Mass Grading, Improvement, or Major Site plans, shall meet requirements as set forth in Ch. 5J-17 FAC in addition to the following as identified in Section 6.4.7.A. through H. of the LDC. Corrective Action 6.4.7.B(1) - Show a minimum of two intervisible horizontal control points per site. 6.4.7.B(2) - Horizontal control points shall be monumented and referenced to the Florida State Plane Coordinate System 6.4.7.B(4) - Provide a statement or table detailing horizontal datum, adjustment, and coordinate values			
OCE Traffic (Permits & Plans) (Office of the County Engineer)	Chris Zeigler	02/25/2026	02/23/2026	Approved
Corrections	6.11.4.B - Cross access (Resolved) - Corrective Action: Provide the executed public parallel access easement. The template for the public easement can be obtained from the Development Review Office at developmentreview@marionfl.org or 352-671-8686. The executed template and recording fees must be returned to the Development Review Office prior to final plan approval. - 6.11.4.B - Cross access: Provide a 24' wide paved cross access easement as specified in 6.11.4.B			
Corrections	6.12.12 - Sidewalks (Resolved) - Corrective Action: Sidewalk is required along Marion Oaks Blvd. Staff supports payment of a fee in-lieu of sidewalk construction. A waiver must be approved by the Development Review Committee to allow the payment of a fee in-lieu of construction. If approved by the DRC the fee comes out to \$2,400.00 and must be paid prior to final plan approval. - 6.12.12 - Sidewalks: Show sidewalk on the plans as required in section 6.12.12.			
Utilities (OCE Plans) (Utilities)	Heather Proctor	02/25/2026	02/25/2026	Requires Re-submit
Corrections	6.15.6.B - Irrigation Water Metering - size (Resolved) - Corrective Action: 1" as shown on C06 - 6.15.6.B - Irrigation Water Metering - size:			
Corrections	6.14.4 - Capacity charges - irrigation (Resolved) - Corrective Action: 1,275 feet - listed on C06 under Irrigation note - 6.14.4 - Capacity charges			
Corrections	6.14.6 - Utilities design to be owned by MCU (Resolved) - Corrective Action: Informational: A. All utility systems shall be designed for the estimated tributary population. B. All utility systems shall be designed utilizing components with a minimum 30 year life span. C. Systems intended to be owned and maintained by MCU shall be designed for the tributary population and in conformance with the adopted Marion County Utilities Master Plan, as amended. D. Water systems shall be designed to satisfy the domestic water demand and fire protection requirements. E. All systems to be owned, operated, or maintained by MCU shall be subject to a pre-design meeting with MCU .F. All meters shall be located in a meter easement located adjacent to or within the public right-of-way. G. All meters in an MCU maintained system shall be installed and inspected by MCU after receiving payment of applicable fees and charges. H. All pipe shall comply with state standards. I. The engineer shall provide the required lengths of mechanically restrained joints in table form on the plans. - 6.14.6 - Utilities design to be owned by MCU:			
Corrections	7.1.3 - UT DETAILS - current LDC version (Resolved) - Corrective Action: C08 - Missing Meter Bank detail (2) Update UT201A and B to the 2023 version 116A and 116B. C09 - Remove UT 205. MCU does not allow butterfly valves. C10 - Remove UT 308 and replace with above-ground ARV UT 316 - 7.1.3 - UT DETAILS - current LDC version: UT details shall be current version based on latest edition of approved LDC			

SUBMITTAL SUMMARY REPORT (MajorSite-000060-2025)

ITEM REVIEW NAME (DEPARTMENT)	ASSIGNED TO	DUE	COMPLETE	STATUS
Utilities (OCE Plans) (Utilities)	Heather Proctor	02/25/2026	02/25/2026	Requires Re-submit
<i>Corrections</i>	Parcel numbers match project area (Resolved) - Corrective Action: Correct Parcel Number(s) or Project Area footprint - YES 8004-0433-18 - Parcel numbers match project area: The parcels(s) shown on the application and/or site plan must match the project area.			
<i>Corrections</i>	6.14.7 - Construction Inspection - PLAN NOTE: (Resolved) - Corrective Action: Add note to Utility Sheet(s) MCU personnel are to inspect any work performed on or around existing MCU infrastructure. A pre-construction meeting is required to be held a minimum of 48 hours prior to start of any construction. If the pre-construction meeting is not completed, any work may be halted. To schedule, contact MCU's Construction Division, 352) 307-6000, ext. 5 or MCUconstruction@marionfl.org - 6.14.7 - Construction Inspection - PLAN NOTE			
<i>Corrections</i>	6.14.5.A(1) - Existing water & sewer mains shown (Resolved) - Corrective Action: Show all mains. Contractor to field locate. - 6.14.5.A(1) - Existing water & sewer mains shown: The entire utility system shall be shown on the plan, including existing water systems and all proposed components within the project area.			
<i>Corrections</i>	6.15.3 - Fire Protection/Fire Flow Capacity (Resolved) - Corrective Action: Informational Please see plan notes for potential FDC relocation. (2) Water service will be provided by Marion County Utilities. Please consult with Marion County Fire Rescue for any additional comments or requirements related to fire protection. - 6.15.3 - Fire Protection/Fire Flow Capacity:			
<i>Corrections</i>	6.14.5.A(6) - MH locations, rim & invert elevation (Resolved) - Corrective Action: N/A - 6.14.5.A(6) - MH locations, rim & invert elevation:			
<i>Corrections</i>	6.15.6.D - Meter Location (Not Resolved) - Corrective Action: Second request C06 - Move meter boxes into the ROW at the property line and label "end of county maintenance". 1" Header is not the appropriate size for 9 meters. Must size appropriately. MCU will install dual checks on residential meters. Backflow is not necessary for the unit meters. Keep the backflow on irrigation and call out on the plans. - 6.15.6.D - Meter Location:			
<i>Corrections</i>	6.15.4 - Water Main Piping Installation (Resolved) - Corrective Action: C06 – Clearly call out the proposed tap size at the water main connection. The water main located along Marion Oaks Boulevard is a 16-inch main. A 6-inch fire hydrant lead and nine (9) meters cannot be served from a 6-inch tap. Revise to either - Relocate the hydrant to the right-of-way and provide a direct tap to the main, or install a 6-inch DDC serving a private hydrant. The fire main from the FDC shall be DR-14. Please clarify whether a dedicated fire line connection to the water main is proposed at the single-port Fire Department Connection. - 6.15.4 - Water Main Piping Installation:			
<i>Corrections</i>	6.14.9.B - Transfer of Assets to MCU - PLAN NOTE: (Resolved) - Corrective Action: "This project will require new utility infrastructure outside of the property boundary to be transferred to Marion County Utilities (MCU) through a Bill of Sale. The Bill of Sale package will be provided at the time of the Pre-Construction Meeting and must be completed and returned to MCU prior to FDEP clearance being released. " - 6.14.9.B - Transfer of Assets to MCU - PLAN NOTE::			
<i>Corrections</i>	6.14.5.B - FDEP PWS and/or WW permits (Resolved) - Corrective Action: Informational: The Engineer of Record is responsible for requesting and submitting the appropriate FDEP Public Water System (PWS) and/or Wastewater (WW) permit applications, if applicable. All applications must be signed and sealed prior to submission for Marion County Utilities' signature and must be provided before the Utilities Pre-Construction meeting. - 6.14.5.B - FDEP PWS and/or WW permits			
<i>Corrections</i>	6.14.8.A - Completion & Closeout - PLAN NOTE: (Resolved) - Corrective Action: Marion County Utilities requires a PDF copy of the utility as-builts for the preliminary walkthrough and project closeout. MCU's GIS and Construction teams will review the PDF as-builts and provide comments. Once all comments have been addressed and revisions made, a DWG/CAD file will be requested to complete the final closeout process. - 6.14.8.A - Completion & Closeout - PLAN NOTE:			
<i>Corrections</i>	6.14.5.A(3) - LS layout, elevations, schedules (Not Resolved) - Corrective Action: Second request - No response to comment letter. Need to provide Lift Station detail sheet. Was a sewer force main pressure test completed to have accurate data for sizing of the lift station? - 6.14.5.A(3) - LS layout, elevations, schedules: Lift station details shall be included on a separate page showing general location of LS with details, working elevations & schedules.			
<i>Corrections</i>	6.14.5.A(2) - Proposed mains & connections shown (Not Resolved) - Corrective Action: Second request: C06 - Show method of connection to force main. (2) install plug valve at property line and label "end of county maintenance" - 6.14.5.A (2) - Proposed mains & connections shown:			
<i>Corrections</i>	6.14.5.B - Submit permits to MCU (DOT, ROW etc) (Resolved) - Corrective Action: Informational: Copies of all related permit applications and issued permits must be submitted to the Marion County Utilities Department prior to, or at the time of, the Pre-Construction Meeting. - 6.14.5.B - Submit permits to MCU (DOT, ROW etc): A copy of any permit issued to the contractor shall also be submitted to MCU's Construction Manager, or designee.			
<i>Corrections</i>	6.15.7 - Cross Connection Control/Backflow (Resolved) - Corrective Action: Informational: A backflow hold will be placed on the building permit. Backflows must be tested and the results reported to crossconnectioncontrol@marionfl.org before the final hold can be released. - 6.15.7 - Cross Connection Control/Backflow:			
<i>Corrections</i>	Additional Utilities Comments (Not Resolved) - Corrective Action: There are no resubmittal comments uploaded. - Additional Utilities Comments			
<i>Corrections</i>	6.14.4 - Capacity charges - domestic water/sewer (Resolved) - Corrective Action: Informational - 6.14.4 - Capacity charges - domestic water/sewer: Capacity charges to be invoiced and collected by MCU Permitting at time of building permit review - Cap Fee Worksheet and interior floor plan may be required.			
<i>Corrections</i>	6.14.2 - Connection Requirements (Not Resolved) - Corrective Action: Second request: The project will be connecting to Marion County Utilities (MCU) water and sewer force main. The existing sewer force main is currently located at the intersection of Marion Oaks Manor and Marion Oaks Boulevard. The site plan must clearly show the off-site connection and any required utility extensions. Parcel 8004-0433-19 has utility-approved plans to extend the sewer force main to that parcel; however, if that project is not completed, this project will be responsible for extending the sewer force main as necessary to provide service to the site. Plan note can state that extension to parcel 8004-0433-19 is proposed by others. - 6.14.2 - Connection Requirements:			
<i>Corrections</i>	6.14.5.C - Hydraulic Analysis (Not Resolved) - Corrective Action: Second request - we need waste water analysis Submit (or revise if marked up) a hydraulic analysis to support the project. The Hydraulic Analysis has not been provided for this site. (LDC 6.14.5.C) - 6.14.5.C - Hydraulic Analysis: The hydraulic analysis is required to analyze the water or wastewater pressures in this area.			

SUBMITTAL SUMMARY REPORT (MajorSite-000060-2025)

ITEM REVIEW NAME (DEPARTMENT)	ASSIGNED TO	DUE	COMPLETE	STATUS
Utilities (OCE Plans) (Utilities)	Heather Proctor	02/25/2026	02/25/2026	Requires Re-submit
Corrections	Review Fee as applicable (per Resolution) (Not Resolved) - Corrective Action: Plan resubmittal: \$225.00 - Review Fee as applicable (per Resolution): MCU review fee for this submittal			
Corrections	MCU Contact Info on Project Cover Sheet (Resolved) - Corrective Action: Correct Contact Info to reflect as provided - MCU Contact Info on Project Cover Sheet: Marion County Utilities, 11800 S US Hwy 441, Belleview FL 34420 - Customer Service 24/7/365 352-307-6000			
Corrections	6.15.4 - Water Distribution System (Not Resolved) - Corrective Action: See plan comments - ARV can be replaced by the hydrant, if you move hydrant to the ROW. C06 – The existing ARV shown on the plans is an above-ground valve and is currently located within the proposed driveway. Please revise the plans to show the removal or relocation of this valve. - 6.15.4 - Water Distribution System:			
Comments	Please see the corrective comments and plan comments.			

OCE: Plan Review (DR) v.1

ITEM REVIEW NAME (DEPARTMENT)	ASSIGNED TO	DUE	COMPLETE	STATUS
911 Management (DR) (911 Management)	Caroline Dennison	12/19/2025	12/09/2025	Approved
Corrections	Additional 911 Comments (Resolved) - Corrective Action: Unit numbers needed on Site Plan. On Sheet C04 - when facing the building the 1st floor will be assigned Units 101-104 from left to right and the 2nd floor will be assigned 201-204 from left to right. These unit numbers need to be added to the site plan when applying for permits. Plan Approved.			
Environmental Health (Plans) (Environmental Health)	Evan Searcy	12/19/2025	12/23/2025	Approved
Fire Marshal (Plans) (Fire)	Jonathan Kenning	12/19/2025	12/05/2025	Approved
Growth Services Planning & Zoning (DR) (GS Planning and Zoning)	Jared Rivera	12/19/2025	12/10/2025	Requires Re-submit
Corrections	2.12.4.L & Article 5 - Overlay zones (Resolved) - Corrective Action: [INFO] FEMA Flood Zone X, Secondary Springs Protection Zone, No ESOZ - 2.12.4.L & Article 5 - Overlay zones: Provide a statement showing all applicable overlay zones on the subject properties such as Airport Overlay Zones (AOZ), Environmentally Sensitive Overlay Zone (ESOZ), Floodplain, Springs Protection Overlay Zone (SPOZ), Military Operating Area (MOA), Scenic Roads Area (SRA), Wellhead/Wellfield Protection Area (WHPA), Silver Springs Community Redevelopment Area (SSCRA), and CR 475A Visual Enhancement Gateway Development Overlay, etc. Refer to LDC Article 5 - OVERLAY ZONES AND SPECIAL AREAS.			
Corrections	2.12.4.L - DRI/FQD Compliance Note (Not Resolved) - Corrective Action: Specifically revise the plan to add the following advisory note: "DEVELOPMENT OF THE PROPERTY AS SHOWN ON THIS [SITE PLAN/SUBDIVISION PLAT] IS SUBJECT TO THE TERMS AND CONDITIONS OF THE MARION OAKS VESTED DRI AND ITS CORRESPONDING VESTED RIGHTS DETERMINATIONS, AS MAY BE AMENDED FROM TIME TO TIME, INCLUDING PROVISIONS REGARDING THE CONCURRENCY OF PUBLIC FACILITIES." - 2.12.4.L - DRI/FQD Compliance Note?: Revise the plan to add the following advisory note: "DEVELOPMENT OF THE PROPERTY AS SHOWN ON THIS [SITE PLAN/SUBDIVISION PLAT] IS SUBJECT TO THE TERMS AND CONDITIONS OF THE [PROJECT NAME DRI/FQD] DEVELOPMENT ORDER, AS MAY BE AMENDED FROM TIME TO TIME, INCLUDING PROVISIONS REGARDING THE CONCURRENCY OF PUBLIC FACILITIES.			
Corrections	2.12 - Rezoning (Not Resolved) - Corrective Action: Please indicate Rezoning Case No. 250707ZP on cover sheet - 2.12 - Rezoning: List of approved Rezoning, case numbers, conditions, and the date of approval.			
Corrections	2.12.4/6.11.8 - Parking (Resolved) - Corrective Action: [INFO] Please note that parking lot landscaping will need to be provided consistent with LDC Sec. 6.8.7 - 2.12.4/6.11.8 - Parking: Provide number and calculation of required and proposed parking spaces in table format, per LDC Sec. 6.11.8. - Parking requirements.			
Corrections	2.12.27 - Location & screening of outside storage (Resolved) - Corrective Action: [INFO] No outdoor storage - 2.12.27 - Location & screening of outside storage: Provide a statement indicating any outside storage area is proposed. If applicable, show location of outside storage areas on plan. Check special requirements under zoning code sections.			
Corrections	2.12 - Land Use Designation-adjacent properties (Resolved) - Corrective Action: [INFO] If possible, please also indicate adjacent zoning/FLU designation on sheets C04.1/04 in future submittals. - 2.12 - Land Use Designation-adjacent properties: Show existing land use designation on the adjacent properties.			
Corrections	2.12.6 - Location of water and sewer (Resolved) - Corrective Action: [INFO] Located within Marion County Utilities service area. Defer to MCU - 2.12.6 - Location of water and sewer: Show location of septic systems and wells. Locations shall be outside setback and clearance.			
Corrections	2.12.24 - Landscape requirements/6.8.6 - Buffering (Not Resolved) - Corrective Action: [INFO] (1) Buffers have been delineated but specific plantings do not seem to have been identified. Please note that in the case that the buffers are cleared, a zoning code violation would exist and the site may be subject to the code enforcement process, at the property owner's risk. (2) Please note that A/C shall be screened consistent with LDC Sec. 6.8.9 - 2.12.24 - Landscape requirements/6.8.6 - Buffering: Show buffer types, locations, and dimensions of required buffering on plan. Show buffer descriptions and illustrations of each proposed buffer (including longitudinal and transverse cross-sections)			
Corrections	2.12/4.2 - Building height (Not Resolved) - Corrective Action: Building heights are missing. Please provide in the site data table on cover/site plan sheets - 2.12/4.2 - Building height: Show building height (primary and accessory structures) in the site data table.			
Corrections	2.12.16/6.5 - EALS or Exemption provided (Resolved) - Corrective Action: [INFO] EALS submitted and transmitted to FWC on 12/10/25. - 2.12.16/6.5 - EALS or Exemption provided?: Provide Environmental Assessment of Listed Species (EALS) or submit an Exemption (EALS-ER). Copy of the EALS/EALS-ER will be forwarded to review agency for comments. Refer to LDC Sec. 6.5 for submittal requirements and review procedures.			
Corrections	2.12 - Waivers (Requested & Approved) (Resolved) - Corrective Action: [INFO] If applicable, please include in cover sheet in future submittals. - 2.12 - Waivers (Requested & Approved): List of all requested and approved waivers, conditions, and the date of approval.			
Corrections	2.12.5/1.8.2.D - Traffic Concurrency Evaluation? (Not Resolved) - Corrective Action: [INFO] Please coordinate with OCE regarding improvements based on required traffic impact analysis. - 2.12.5/1.8.2.D - Traffic Concurrency Evaluation?: In order to propose alternative solutions to addressing the lack of roadway capacity, a traffic study will be required and a traffic methodology must be submitted for review and approval prior to the traffic study being completed. Please contact OCE-Traffic Review for further information on completing the necessary methodology and study.			
Comments	See corrections for Planning/Zoning comments.			

SUBMITTAL SUMMARY REPORT (MajorSite-000060-2025)

ITEM REVIEW NAME (DEPARTMENT)	ASSIGNED TO	DUE	COMPLETE	STATUS
Landscape (Plans) (Parks and Recreation)	Susan Heyen	12/19/2025	12/12/2025	Requires Re-submit
<i>Comments</i>	Please submit Tree Preservation, signed and sealed Landscape, Irrigation and if necessary, photometric plans for review			
OCE Design (Plans) (Office of the County Engineer)	Gerald Koch	12/19/2025	12/22/2025	Approved
<i>Corrections</i>	6.2.1.B.-F. - Requirements (Resolved) - 6.2.1.B.-F. - Requirements: Technical standards and requirements as listed in Section 6.2.1.B. through F. of the LDC			
<i>Corrections</i>	6.2.1.A. - Licensed Professional (Resolved) - 6.2.1.A. - Licensed Professional: Plans shall be prepared by a professional licensed by the State of Florida. The name, street address, signature, date, license number, and seal of the responsible professional shall be shown on each plan sheet. The same shall be provided on the cover page of any supporting documents and calculations.			
<i>Corrections</i>	Additional Design Comments (Resolved) - Additional Comments:			
OCE Property Management (Plans) (Office of the County Engineer)	Elizabeth Woods	12/19/2025	12/22/2025	Requires Re-submit
<i>Comments</i>	Please upload application and Site Plan for review -EMW 12.22.25			
OCE Stormwater (Permits & Plans) (Office of the County Engineer)	Alexander Turnipseed	12/19/2025	12/10/2025	Requires Re-submit
<i>Corrections</i>	6.13.2.B(4) - Hydrologic Analysis (Not Resolved) - Corrective Action: Please clarify where you are getting the rainfall amounts from. Based on the site location using NOAA's maps the rainfall amount for the 24 hr,100 year storm & 24 hr, 25 year storm should be 11.1 & 7.95 respectively - 6.13.2.B(4) - Hydrologic Analysis: Hydrologic stormwater model analysis including all input parameters, supporting calculations, assumptions, documentation for design and results.			
<i>Corrections</i>	6.13.2 A(1)/(2) - Contributing Basins/Tc (Not Resolved) - Corrective Action: Please provide a pre-development drainage basin map - 6.13.2 A(1)/(2) - Contributing Basins/Tc: Plan sheets shall minimally show: All pre-development and post-development basins that contribute runoff to the area proposed for development, including all off-site contributions, and areas that may be impacted by the development fully delineated and quantified. The time of concentration, and travel path, for each watershed shall be shown.			
<i>Corrections</i>	2.12.4.L(9)(b) - Data Block (Impervious Area) (Not Resolved) - 2.12.4.L(9)(b) - Data Block (Impervious Area): Provide existing and proposed gross impervious area in SF, ac, and percentage in the data block on the cover sheet. Include any offsite drainage to your site in the data block.			
<i>Corrections</i>	6.13.2.B(6) - Freeboard (Not Resolved) - Corrective Action: See comment under "6.13.2.B(4) □ Hydrologic Analysis" - 6.13.2.B(6) - Freeboard: A minimum freeboard of six inches shall be provided for all retention/detention areas.			
<i>Corrections</i>	6.13.6 - Stormwater Quality Criteria (Not Resolved) - 6.13.6 - Stormwater Quality Criteria: The following systems shall be considered as meeting the County's stormwater quality criteria: a) Systems that demonstrate numerically the post-development stormwater quality is equal to or better than the pre-development stormwater quality using methodology approved by the County Engineer or his designee. b) Dry retention systems that have a depth of four feet or less, measured from top of bank to pond bottom, shall have an appropriate vegetative cover. c) Dry retention systems that have a depth of six feet or less, measured from top of bank to pond bottom, with side slopes that are no steeper than 4:1, shall have sodded bottoms. d) Wet retention/detention systems, including wetlands, shall meet the governing State standards. e) Systems demonstrating distributed volume.			
<i>Corrections</i>	Additional Stormwater comments (Not Resolved) - (1) INFO: Please provide a copy of the NPDES permit or NOI as well as a copy of the District permit prior to construction. (2) INFO: If you have questions or would like to discuss the stormwater review comments, please contact Alexander Turnipseed at (352) 671-8376 or at alexander.turnipseed@marionfl.org.			
<i>Corrections</i>	6.13.12 - Operation and Maintenance (Not Resolved) - Corrective Action: An operation and maintenance manual is required for all projects. This is a standalone document from the plans and calculations. If you need an example of O&M documents that have been approved in the past, contact the stormwater department. The O&M manual will need to have the following certification on the cover: "I hereby certify that I, my successors, and assigns shall perpetually operate and maintain the stormwater management system and associated elements in accordance with the specifications shown herein and on the approved plans." This certification must be signed by the current property owner or their authorized representative. We used the State of Florida Sunbiz website to verify agents/member/officers of business entities. If the owner is an out of state organization we will need to see articles of incorporation/organization to verify the authority of the individual signing the certifications. For property ownership, we use the Marion County Property Appraiser's website. If you need an example contact the stormwater department. - 6.13.12 - Operation and Maintenance: Provide an O&M manual detailing the steps for operating and maintaining the proposed private system of DRAs, pipes, inlets, swales, etc. Manual shall be signed by Owner and owner's certification statement shall be on the manual. Owner's certification statement: "I hereby certify that I, my successors, and assigns shall perpetually operate and maintain the stormwater management and associated elements in accordance with the specifications shown herein and on the approved plan".			
<i>Corrections</i>	2.12.8 - Topographical Contours (Not Resolved) - 2.12.8 - Topographical Contours: Current boundary and topographic survey (one foot contour intervals extending 100 feet beyond the project boundary) based upon accepted vertical datum. Surveys will be less than 12 months old and accurately reflect current site conditions, meeting standards set forth in Ch. 5J-17 FAC. Alternate topographic data may be accepted if pre-approved by the Marion County Land Surveyor.			
<i>Corrections</i>	6.13.2.B(8) - Calculation & Plan Consistency (Not Resolved) - Corrective Action: Notes on pages 56 & 58 of the stormwater report appear to have been cut off - 6.13.2.B(8) - Calculation & Plan Consistency: Calculations must be consistent with the plan sheets and other supporting details. Calculations shall use standard methodology recognized in the State of Florida, including hand and/or computerized calculations.			
<i>Corrections</i>	Final signed and sealed hard copy signature page (Not Resolved) - After all stormwater comments are resolved, please upload a scanned copy of the digitally signed and sealed certification page of the stormwater report. Alternatively, a hard copy can be submitted. If you choose to submit a hard copy, you only need to submit the certification page of the report. A full report is not necessary. However, full reports are accepted if desired.			
<i>Corrections</i>	6.13.8 - Stormwater Conveyance Criteria (Not Resolved) - Corrective Action: Please provide conveyance calculations - 6.13.8 - Stormwater Conveyance Criteria: Conveyance systems shall be sized to accommodate the 25-year 24-hour storm event. The tailwater elevation utilized shall be based on the tailwater elevation of the receiving water body plus 6 inches at the peak discharge time of the design storm. Alternatively, the tailwater elevation utilized can be the design high water elevation of the 25-year 24-hour design storm. All retention/detention areas within subdivision developments shall have direct access to a right-of-way. A drainage right-of-way may be necessary to establish this access. Drainage rights-of-way shall be a minimum of 30 feet in width. All drainage swales to facilities or underground stormwater conveyance systems shall be within drainage easements, except where rights-of-way are provided. Drainage easements shall be a minimum of 20 feet in width.			

SUBMITTAL SUMMARY REPORT (MajorSite-000060-2025)

ITEM REVIEW NAME (DEPARTMENT)	ASSIGNED TO	DUE	COMPLETE	STATUS
OCE Stormwater (Permits & Plans) (Office of the County Engineer)	Alexander Turnipseed	12/19/2025	12/10/2025	Requires Re-submit
<i>Corrections</i>	6.13.2.A(9) - Access Accommodates Stormwater (Not Resolved) - Corrective Action: Identify how the conveyance of runoff in the ROW swale will be maintained - 6.13.2.A(9) - Access Accommodates Stormwater: Site access accounting for stormwater conveyance with a swale, culvert, or curb and gutter driveway.			
<i>Corrections</i>	6.13.4 - Stormwater Quantity Criteria (Not Resolved) - Corrective Action: See comment under "6.13.2.B(4) □ Hydrologic Analysis" - 6.13.4 - Stormwater Quantity Criteria: Methodologies, rainfall distribution and intensities shall be consistent with those approved by the governing water management district. Assumed parameters must be supported by conventional methods. Design storms shall consider open or closed basins as provided in Table 6.13-1.			
<i>Corrections</i>	6.13.4.D - Recovery Analysis (Not Resolved) - Corrective Action: See comment under "6.13.2.B(4) □ Hydrologic Analysis" - 6.13.4.D - Recovery Analysis: All retention/detention areas shall recover the total volume required to meet the discharge volume limitations within 14 days following the design rainfall event. For retention/detention areas not able to recover the total required volume within 14 days, the stormwater facility volume shall be increased to retain an additional volume from a second design storm.			
<i>Corrections</i>	6.13.4.C - Discharge Conditions (Not Resolved) - Corrective Action: See comment under "6.13.2.B(4) □ Hydrologic Analysis" - 6.13.4.C - Discharge Conditions: All stormwater facilities shall be designed to limit discharges considering open or closed basins per Table 6.13-1. A discharge structure shall be required for all retention/detention areas not designed to retain the entire 100-year 24-hour post-development design storm. Discharge structures shall include a skimmer at a minimum.			
OCE Survey (Plans) (Office of the County Engineer)	Theresa Smail	12/19/2025	12/17/2025	Requires Re-submit
<i>Corrections</i>	6.4.7. Construction Plans - Survey Requirements (Not Resolved) - Corrective Action: 6.4.7.B(1) - Show a minimum of two intervisible horizontal control points per site. 6.4.7.B(2) - Horizontal control points shall be monumented and referenced to the Florida State Plane Coordinate System 6.4.7.B(4) - Provide a statement or table detailing horizontal datum, adjustment, and coordinate values - 6.4.7. Construction Plans - Survey Requirements: Survey information to support construction plans, including but not limited to Mass Grading, Improvement, or Major Site plans, shall meet requirements as set forth in Ch. 5J-17 FAC in addition to the following as identified in Section 6.4.7.A. through H. of the LDC.			
<i>Corrections</i>	2.12.8. - Current boundary and topographic survey (Not Resolved) - 2.12.8. - Current boundary and topographic survey: Current boundary and topographic survey (one foot contour intervals extending 100 feet beyond the project boundary) based upon accepted vertical datum. Surveys will be less than 12 months old and accurately reflect current site conditions, meeting standards set forth in Ch. 5J-17 FAC. Alternate topographic data may be accepted if pre-approved by the Marion County Land Surveyor.			
OCE Traffic (Permits & Plans) (Office of the County Engineer)	Chris Zeigler	12/19/2025	12/08/2025	Requires Re-submit
<i>Corrections</i>	6.11.4.B - Cross access (Not Resolved) - Corrective Action: Provide the executed public parallel access easement. The template for the public easement can be obtained from the Development Review Office at developmentreview@marionfl.org or 352-671-8686. The executed template and recording fees must be returned to the Development Review Office prior to final plan approval. - 6.11.4.B - Cross access: Provide a 24' wide paved cross access easement as specified in 6.11.4.B			
<i>Corrections</i>	6.12.12 - Sidewalks (Not Resolved) - Corrective Action: Sidewalk is required along Marion Oaks Blvd. Staff supports payment of a fee in-lieu of sidewalk construction. A waiver must be approved by the Development Review Committee to allow the payment of a fee in-lieu of construction. If approved by the DRC the fee comes out to \$2,400.00 and must be paid prior to final plan approval. - 6.12.12 - Sidewalks: Show sidewalk on the plans as required in section 6.12.12.			
Utilities (OCE Plans) (Utilities)	Heather Proctor	12/19/2025	12/22/2025	Requires Re-submit
<i>Corrections</i>	6.14.6 - Utilities design to be owned by MCU (Not Resolved) - Corrective Action: Informational: A. All utility systems shall be designed for the estimated tributary population. B. All utility systems shall be designed utilizing components with a minimum 30 year life span. C. Systems intended to be owned and maintained by MCU shall be designed for the tributary population and in conformance with the adopted Marion County Utilities Master Plan, as amended. D. Water systems shall be designed to satisfy the domestic water demand and fire protection requirements. E. All systems to be owned, operated, or maintained by MCU shall be subject to a pre-design meeting with MCU .F. All meters shall be located in a meter easement located adjacent to or within the public right-of-way. G. All meters in an MCU maintained system shall be installed and inspected by MCU after receiving payment of applicable fees and charges. H. All pipe shall comply with state standards. I. The engineer shall provide the required lengths of mechanically restrained joints in table form on the plans. - 6.14.6 - Utilities design to be owned by MCU:			
<i>Corrections</i>	6.14.4 - Capacity charges - irrigation (Not Resolved) - Corrective Action: Show irrigated SF on UTILITY PLAN PAGE - 6.14.4 - Capacity charges			
<i>Corrections</i>	MCU Contact Info on Project Cover Sheet (Resolved) - Corrective Action: Correct Contact Info to reflect as provided - MCU Contact Info on Project Cover Sheet: Marion County Utilities, 11800 S US Hwy 441, Belleview FL 34420 - Customer Service 24/7/365 352-307-6000			
<i>Corrections</i>	6.14.8.A - Completion & Closeout - PLAN NOTE: (Not Resolved) - Corrective Action: Marion County Utilities requires a PDF copy of the utility as-builts for the preliminary walkthrough and project closeout. MCU's GIS and Construction teams will review the PDF as-builts and provide comments. Once all comments have been addressed and revisions made, a DWG/CAD file will be requested to complete the final closeout process. - 6.14.8.A - Completion & Closeout - PLAN NOTE:			
<i>Corrections</i>	6.14.5.A(2) - Proposed mains & connections shown (Not Resolved) - Corrective Action: C06 - Show method of connection to force main. (2) install plug valve at property line and label "end of county maintenance" (3) C900 is required for 14 LF force main in ROW. - 6.14.5.A(2) - Proposed mains & connections shown:			
<i>Corrections</i>	6.14.5.A(8) - Connection to existing sanitary (Not Resolved) - Corrective Action: See previous comment – The plans must show the off-site connection and extension to the sewer force main at its current location. - 6.14.5.A(8) - Connection to existing sanitary:			
<i>Corrections</i>	6.14.9.B - Transfer of Assets to MCU - PLAN NOTE: (Not Resolved) - Corrective Action: "This project will require new utility infrastructure outside of the property boundary to be transferred to Marion County Utilities (MCU) through a Bill of Sale. The Bill of Sale package will be provided at the time of the Pre-Construction Meeting and must be completed and returned to MCU prior to FDEP clearance being released. " - 6.14.9.B - Transfer of Assets to MCU - PLAN NOTE::			
<i>Corrections</i>	6.14.5.B - FDEP PWS and/or WW permits (Not Resolved) - Corrective Action: The Engineer of Record is responsible for requesting and submitting the appropriate FDEP Public Water System (PWS) and/or Wastewater (WW) permit applications, if applicable. All applications must be signed and sealed prior to submission for Marion County Utilities' signature and must be provided before the Utilities Pre-Construction meeting. - 6.14.5.B - FDEP PWS and/or WW permits			

SUBMITTAL SUMMARY REPORT (MajorSite-000060-2025)

ITEM REVIEW NAME (DEPARTMENT)	ASSIGNED TO	DUE	COMPLETE	STATUS
Utilities (OCE Plans) (Utilities)	Heather Proctor	12/19/2025	12/22/2025	Requires Re-submit
<i>Corrections</i>	6.15.7 - Cross Connection Control/Backflow (Not Resolved) - Corrective Action: A backflow hold will be placed on the building permit. Backflows must be tested and the results reported to crossconnectioncontrol@marionfl.org before the final hold can be released. - 6.15.7 - Cross Connection Control/Backflow:			
<i>Corrections</i>	6.14.5.C - Hydraulic Analysis (Not Resolved) - Corrective Action: Submit (or revise if marked up) a hydraulic analysis to support the project. The Hydraulic Analysis has not been provided for this site. (LDC 6.14.5.C) - 6.14.5.C - Hydraulic Analysis: The hydraulic analysis is required to analyze the water or wastewater pressures in this area.			
<i>Corrections</i>	6.15.3 - Fire Protection/Fire Flow Capacity (Not Resolved) - Corrective Action: Water service will be provided by Marion County Utilities. Please consult with Marion County Fire Rescue for any additional comments or requirements related to fire protection. - 6.15.3 - Fire Protection/Fire Flow Capacity:			
<i>Corrections</i>	6.14.5.A(1) - Existing water & sewer mains shown (Not Resolved) - Corrective Action: Show all mains. Contractor to field locate. - 6.14.5.A(1) - Existing water & sewer mains shown: The entire utility system shall be shown on the plan, including existing water systems and all proposed components within the project area.			
<i>Corrections</i>	Review Fee as applicable (per Resolution) (Not Resolved) - Corrective Action: Utilities Plan Review Fee: \$510.00 Fee(s) may be paid online through the Civic Access portal. - Review Fee as applicable (per Resolution): MCU review fee for this submittal			
<i>Corrections</i>	6.14.5.A(3) - LS layout, elevations, schedules (Not Resolved) - Corrective Action: Need to provide Lift Station detail sheet. Was a sewer force main pressure test completed to have accurate data for sizing of the lift station? - 6.14.5.A(3) - LS layout, elevations, schedules: Lift station details shall be included on a separate page showing general location of LS with details, working elevations & schedules.			
<i>Corrections</i>	Additional Utilities Comments (Not Resolved) - Corrective Action: C02 - #12 under Sanitary System Notes - Change water main to force main. - Additional Utilities Comments			
<i>Corrections</i>	6.15.6.D - Meter Location (Not Resolved) - Corrective Action: C06 - Move meter boxes into the ROW at the property line and label "end of county maintenance". 1" Header is not the appropriate size for 9 meters. Must size appropriately. MCU will install dual checks on residential meters. Backflow is not necessary for the unit meters. Keep the backflow on irrigation and call out on the plans. - 6.15.6.D - Meter Location:			
<i>Corrections</i>	6.14.4 - Capacity charges - domestic water/sewer (Not Resolved) - Corrective Action: Informational - 6.14.4 - Capacity charges - domestic water/sewer: Capacity charges to be invoiced and collected by MCU Permitting at time of building permit review - Cap Fee Worksheet and interior floor plan may be required.			
<i>Corrections</i>	Parcel numbers match project area (Resolved) - Corrective Action: Correct Parcel Number(s) or Project Area footprint - YES 8004-0433-18 - Parcel numbers match project area: The parcels(s) shown on the application and/or site plan must match the project area.			
<i>Corrections</i>	6.15.4 - Water Main Piping Installation (Not Resolved) - Corrective Action: C06 – Clearly call out the proposed tap size at the water main connection. The water main located along Marion Oaks Boulevard is a 16-inch main. A 6-inch fire hydrant lead and nine (9) meters cannot be served from a 6-inch tap. Revise to either - Relocate the hydrant to the right-of-way and provide a direct tap to the main, or Install a 6-inch DDC serving a private hydrant. The fire main from the FDC shall be DR-14. Please clarify whether a dedicated fire line connection to the water main is proposed at the single-port Fire Department Connection. - 6.15.4 - Water Main Piping Installation:			
<i>Corrections</i>	6.14.5.B - Submit permits to MCU (DOT, ROW etc) (Not Resolved) - Corrective Action: Copies of all related permit applications and issued permits must be submitted to the Marion County Utilities Department prior to, or at the time of, the Pre-Construction Meeting. - 6.14.5.B - Submit permits to MCU (DOT, ROW etc): A copy of any permit issued to the contractor shall also be submitted to MCU's Construction Manager, or designee.			
<i>Corrections</i>	6.15.6.B - Irrigation Water Metering - size (Resolved) - Corrective Action: 1" as shown on C06 - 6.15.6.B - Irrigation Water Metering - size:			
<i>Corrections</i>	6.14.7 - Construction Inspection - PLAN NOTE: (Not Resolved) - Corrective Action: Add note to Utility Sheet(s) MCU personnel are to inspect any work performed on or around existing MCU infrastructure. A pre-construction meeting is required to be held a minimum of 48 hours prior to start of any construction. If the pre-construction meeting is not completed, any work may be halted. To schedule, contact MCU's Construction Division, 352) 307-6000, ext. 5 or MCUconstruction@marionfl.org - 6.14.7 - Construction Inspection - PLAN NOTE			
<i>Corrections</i>	7.1.3 - UT DETAILS - current LDC version (Not Resolved) - Corrective Action: C08 - Missing Meter Bank detail (2) Update UT201A and B to the 2023 version 116A and 116B. C09 - Remove UT 205. MCU does not allow butterfly valves. C10 - Remove UT 308 and replace with above-ground ARV UT 316 - 7.1.3 - UT DETAILS - current LDC version: UT details shall be current version based on latest edition of approved LDC			
<i>Corrections</i>	6.15.4 - Water Distribution System (Not Resolved) - Corrective Action: C06 – The existing ARV shown on the plans is an above-ground valve and is currently located within the proposed driveway. Please revise the plans to show the removal or relocation of this valve. - 6.15.4 - Water Distribution System:			
<i>Corrections</i>	6.14.2 - Connection Requirements (Not Resolved) - Corrective Action: The project will be connecting to Marion County Utilities (MCU) water and sewer force main. The existing sewer force main is currently located at the intersection of Marion Oaks Manor and Marion Oaks Boulevard. The site plan must clearly show the off-site connection and any required utility extensions.			
<i>Corrections</i>	Parcel 8004-0433-19 has utility-approved plans to extend the sewer force main to that parcel; however, if that project is not completed, this project will be responsible for extending the sewer force main as necessary to provide service to the site. Plan note can state that extension to parcel 8004-0433-19 is proposed by others. - 6.14.2 - Connection Requirements:			
<i>Comments</i>	6.14.5.A(6) - MH locations, rim & invert elevation (Resolved) - Corrective Action: N/A - 6.14.5.A(6) - MH locations, rim & invert elevation: The parcel will be connecting to Marion County Utilities water and will connect to and extend the sewer force main. Please see the correction comments.			

LEGAL DESCRIPTION:

LOTS 18, BLOCK "413", MARION OAKS
UNIT NO. 4, ACCORDING TO THE MAP OR PLAT
THEREOF, AS RECORDED IN PLAT BOOK 0, PAGE(S) 53, OF THE
PUBLIC RECORDS OF MARION COUNTY, FLORIDA.

I HEREBY CERTIFY THAT I, MY SUCCESSORS, AND ASSIGNS SHALL
PERPETUALLY MAINTAIN THE IMPROVEMENTS AS SHOWN ON THIS PLAN

Beatriz Estela

Signature

Beatriz Estela Rosa

Name

SITE DATA:

SITE AREA-24,000 SF (0.55 AC)
EXISTING IMPERVIOUS AREA- 0 SF (0 AC) 0%
PROPOSED IMPERVIOUS AREA- 13,546 SF (0.311 AC) (57%)
NO OFFSITE DRAINAGE

MULTIFAMILY (APARTMENTS)- INTENDED TO PROVIDE FOR
HIGH-DENSITY AND URBAN RESIDENTIAL DEVELOPMENT, INCLUDING
MULTI-FAMILY DWELLINGS IN AREAS SERVED BY PUBLIC OR PRIVATE
WATER AND SEWER FACILITIES.

PROJECT AREA: 0.55 AC

ZONING: RPUD

FLU: HR

PROPOSE USE: MULTIFAMILY APARTMENTS
3,600 SF/FLOOR

SECONDARY SPRINGS PROTECTION ZONE

BLDG HEIGHT: 26'-0"

ADJACENT PROPERTIES:

NORTH: RPUD; FLU- HR
EAST: R3; FLU- HR
SOUTH: RPUD; FLU- HR
WEST: ROW

SITE REQUIREMENTS:

MIN. LOT WIDTH: 100 FT

MIN. LOT AREA: 12,500 SF

MAX DENSITY: MAX. 8 UNITS/AC
MIN. 4 UNITS/AC

BUILDING SETBACKS:

FRONT (WEST)- 25 FT
SIDE (NORTH)- 8 FT SIDE (SOUTH) 8 FT SIDE
REAR (EAST)- 25 FT

PARKING REQUIREMENTS:

2 SPACE/ DWELLING UNIT
24 FT AISLE LENGTH; TWO WAY TRAFFIC; 90°
MIN. 9 FT WIDE BY 18 FT LONG PARKING SPACE

UTILITY PROVIDERS

MARION COUNTY UTILITIES
11800 SE US HIGHWAY 441
BELLEVUE, FL 34420
CUSTOMER SERVICE 24/7/365
(352)307-6000

ENGINEER:

LYNN ENGINEERING & DESIGN
P.O. BOX 140024
ORLANDO, FL 32814
CONTACT: CHAD S. LYNN, P.E.
PHONE: 407-775-5194
EMAIL: CLINN@LYNNENGINEERING.COM

SURVEYOR:

LYNX SURVEYORS CORP
302 LAUREL ROAD EAST, UNIT 291
LAUREL, FL 34272
833-721-2907
CONTACT@LYNXSURVEYORS.COM
WWW.LYNXSURVEYORS.COM

OWNER/APPLICANT:

A&B PROPERTIES SERVICES LLC
BEATRIZESTELA2000@YAHOO.COM
ADDRESS: 275 SYCAMORE CT, WIND GAP, PENNSYLVANIA, 18091
CONTACT INFORMATION: BEATRIZ ESTELA ROSA - (908) 343-9077

MAJOR SITE PLAN

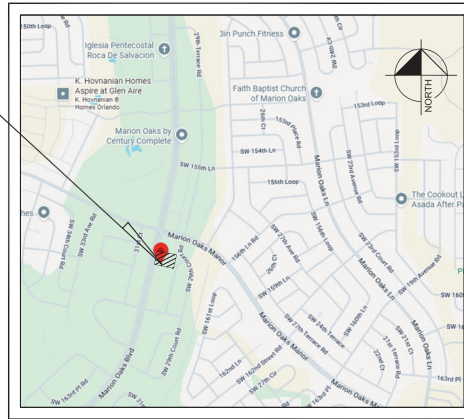
FOR

MULTIFAMILY DEVELOPMENT
351 MARION OAKS BLVD
OCALA, FL 34473

PARCEL ID: # 8004-0433-18

SECTION 23, TOWNSHIP 17, RANGE 21

PROJECT LOCATION



LOCATION MAP

SCALE: 1:400

DRAWING INDEX

C01	COVER SHEET
C02	GENERAL NOTES
C03	EXISTING CONDITIONS AND DEMOLITION PLAN
C04	SITE PLAN
C04.1	AERIAL MAP OVERLAY
C05	PAVING, GRADING AND DRAINAGE PLAN
C06	UTILITY PLAN
C06.1	UTILITY PLAN CONNECTION
C07	CONSTRUCTION DETAILS
C08-C10	UTILITY DETAILS
C11	LIFT STATION DETAIL
C12	AUTOTURN ANALYSIS FIRE TRUCK
C13	PHOTOMETRICS
SWPPP-1	EROSION CONTROL & STORMWATER POLLUTION
SWPPP-2	EROSION CONTROL & STORMWATER POLLUTION

I HEREBY CERTIFY THAT THESE PLANS AND CALCULATIONS WERE
COMPLETED IN ACCORDANCE WITH ALL APPLICABLE REQUIREMENTS OF
THE MARION COUNTY LAND DEVELOPMENT CODE (LDC), EXCEPT AS WAIVED

CALL 48 HOURS
BEFORE YOU DIAL 811IT'S THE LAW!
DIAL 811

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

NOTE:

- CONSTRUCTION MATERIALS QUALITY AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH MARION COUNTY AND FDOT SPECIFICATIONS AND STANDARDS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- THIS PROJECT IS NOT IN AN ENVIRONMENTALLY SENSITIVE OVERLAY ZONE.
- THIS PROPERTY IS LOCATED WITHIN FLOOD ZONE X
- PROJECT IS WITHIN THE SECONDARY SPRING PROTECTION OVERLAY ZONE
- THIS PROPOSED PROJECT HAS NOT BEEN GRANTED CONCURRENCY APPROVAL AND/OR GRANTED OR RESERVED ANY PUBLIC FACILITY CAPACITIES. FUTURE RIGHTS TO DEVELOP THE PROPERTY ARE SUBJECT TO A DEFERRED CONCURRENCY DETERMINATION, AND FINAL APPROVAL TO DEVELOP THE PROPERTY HAS NOT BEEN OBTAINED. THE COMPLETION OF CONCURRENCY REVIEW AND/OR APPROVAL HAS BEEN DEFERRED TO LATER DEVELOPMENT REVIEW STAGES, SUCH AS, BUT NOT LIMITED TO, MASTER PLAN, PRELIMINARY PLAT, IMPROVEMENT PLAN, FINAL PLAT, SITE PLAN, OR BUILDING PERMIT REVIEW.
- NO CHANGE TO THE WORK AS SHOWN ON THE APPROVED PLANS SHALL BE MADE WITHOUT NOTIFICATION TO AND APPROVAL BY THE OFFICE OF THE COUNTY ENGINEER.
- OWNER, A&B PROPERTIES SERVICES L.L.C., WILL BE RESPONSIBLE FOR MAINTENANCE AND MANAGEMENT OF THE COMMON AREAS AND IMPROVEMENTS.
- DEVELOPMENT OF THE PROPERTY AS SHOWN ON THIS SITE PLAN IS SUBJECT TO THE TERMS AND CONDITIONS OF THE 351 MARION OAKS BOULEVARD DEVELOPMENT ORDER, AS MAY BE AMENDED FROM TIME TO TIME, INCLUDING PROVISIONS REGARDING THE CONCURRENCY OF PUBLIC FACILITIES.
- DEVELOPMENT OF THE PROPERTY AS SHOWN ON THIS MAJOR SITE PLAN IS SUBJECT TO THE TERMS AND CONDITIONS OF THE MARION OAKS VESTED DRI AND ITS CORRESPONDING VESTED RIGHTS DETERMINATIONS, AS MAY BE AMENDED FROM TIME TO TIME, INCLUDING PROVISIONS REGARDING THE CONCURRENCY OF PUBLIC FACILITIES.

22-Oct-25

LYNN ENGINEERING & DESIGN

P.O. Box 140024, Orlando, FL 32814
Phone: 407-552-5433 • Fax: 407-382-3778
clinn@lynnengineering.com • www.LynnEngineering.com

Description/ITE Code	ITE Vehicle Trip Generation Rates										Expected Units
	Units	(peak hours are for peak hour of adjacent street traffic unless highlighted)								Units Independent Variable	
		Weekday	AM	PM	Pass-By	AM In	AM Out	PM In	PM Out		
Apartment 220	DU	6.74	0.40	0.51		24%	76%	63%	37%	DU	8.0
Total Generated Trips		Total Distribution of Generated Trips									
Daily		AM Hour	PM Hour	AM In	AM Out	Pass-By	PM In	PM Out	Pass-By		
		54	3	4	1	2	0	3	2	0	

THE ITE TRIP GENERATION MANUAL, 11TH EDITION WAS USED TO ESTIMATE THE PROJECTED TRIPS BY THIS DEVELOPMENT.

REZONING PERMIT:

ORDINANCE NO. 25-31

AGENDA ITEM 15.2.3 250707ZC - A&B PROPERTIES SERVICES, LLC

ZONING CHANGE FOR MULTIPLE-FAMILY DWELLINGS (R-3) TO RESIDENTIAL
PLANNED UNIT DEVELOPMENT (R-PUD), FOR ALL PERMITTED USES, 0.55 ACRE
PARCEL, ON PARCEL ACCOUNT NUMBER 8004-0433-18, SITE ADDRESS 351
MARION OAKS BOULEVARD, OCALA FL 34473

DULY ADOPTED: JULY 15TH, 2025

WAIVERS:

351 MARION OAKS MULTIFAMILY-MAJOR SITE PLAN
WAIVER #000293

LDC 6.12.12.(D) SIDEWALKS

REQUEST FEE IN LIEU OF SIDEWALK CONSTRUCTION

DATE OF APPROVAL: FEBRUARY 2ND, 2026

WAIVERS:

MULTI-FAMILY- 8 UNITS - 351 MARION OAKS BLVD

WAIVER PIR-000528-2026

LDC 6.8.7(D) PARKING AREAS AND VEHICULAR USE
AREAS

REQUEST TO USE EVERGREEN UNDERSTORY TREES IN
THE PARKING ISLANDS INSTEAD OF SHADE TREES.

DATE OF APPROVAL: APRIL 6TH, 2026

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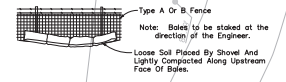
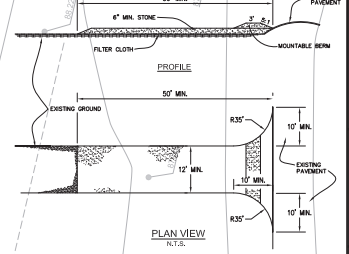
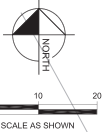
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STABILIZED CONSTRUCTION ENTRANCE

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 RIPPED ACROSS THE ENTRANCE. IF PAVING IS IMPRACTICAL, A MOUNTABLE BERM WITH 6:1 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.



BALES BACKED BY FENCE

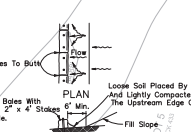
- * SYNTHETIC BALES SHALL BE USED IN PLACE OF HALE BALES.



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

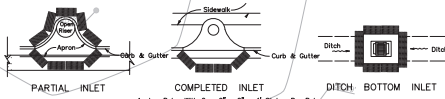
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BARRIERS FOR FILL SLOPES

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

N.T.S.



PROTECTION AROUND INLETS OR SIMILAR STRUCTURES

N.T.S.

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

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EXISTING CONDITIONS AND
DEMOLITION PLAN

MAJOR SITE PLAN
351 MARION OAKS BLVD
OCALA, FL
MARION COUNTY
FLORIDA

DATE
07/24
PROJECT NO.
36300-24-700
SHEET NUMBER
C03

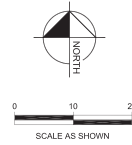
MARION OAKS BOULEVARD

LEGAL DESCRIPTION:

LOT 18, BLOCK "433", MARION OAKS, UNIT 4, AS PER THE PLAT THEREOF RECORDED IN PLAT BOOK 0, PAGE 53, PUBLIC RECORDS OF MARION COUNTY, FLORIDA.

FLOOD INFORMATION:

BY PERFORMING A SEARCH WITH THE LOCAL GOVERNING MUNICIPALITY OR WWW.FEMA.GOV, THE PROPERTY APPEARS TO BE LOCATED IN ZONE X. THIS PROPERTY WAS FOUND IN MARION COUNTY, FLORIDA COMMUNITY NUMBER 120160, DATED 8/28/2008.



SITE DATA

PARCEL ID# 8004-0433-18
PROJECT AREA: 0.55 ACRES 24,000 SF
EXISTING ZONING: R-3
PROPOSED ZONING: R-PUD (ORDINANCE NO.25-31)
PROPOSED USE: MULTIFAMILY APARTMENTS
PROPOSED FLU: HR
BUILDING: 3,600 SF/FLOOR
BUILDING HEIGHT: 26'-0"
NUMBER OF STORIES: 2
DENSITY PER SEC 4.2.11(D.) FOR RPUD MAX. 8 UNITS/AC
HIGH-RESIDENTIAL DENSITY MIN. 4 UNITS/AC
DENSITY ALLOWED MAX. 8 UNITS (ORDINANCE NO.25-31) MIN. 3 UNITS

PROPOSED UNITS:

8PLEX

PARKING REQUIRED:

8 - 2 BEDROOM UNITS: 2 SPACES/D.U. = 8 X 2 = 16 SPACES
TOTAL REQUIRED PARKING: 16 SPACES

PARKING PROVIDED:

HANDICAP SPACES (12'x18') 1 SPACES
REGULAR SPACES (9'x18') 15 SPACES
TOTAL SPACES 16 SPACES

PROPOSED IMPERVIOUS AREA:

CONCRETE (SIDEWALK, ETC.) 0.028 AC (1,232 SF)
BUILDING 0.083 AC (3,600 SF)
ASPHALT (PARKING LOT) 0.200 AC (8,692 SF)
TOTAL IMPERVIOUS AREA: 0.311 AC (13,524 SF) (57%)

BUILDING SETBACKS: REQUIRED

FRONT (WEST) 25 FEET
SIDE (NORTH) 8 FEET
REAR (EAST) 25 FEET
SIDE (SOUTH) 8 FEET

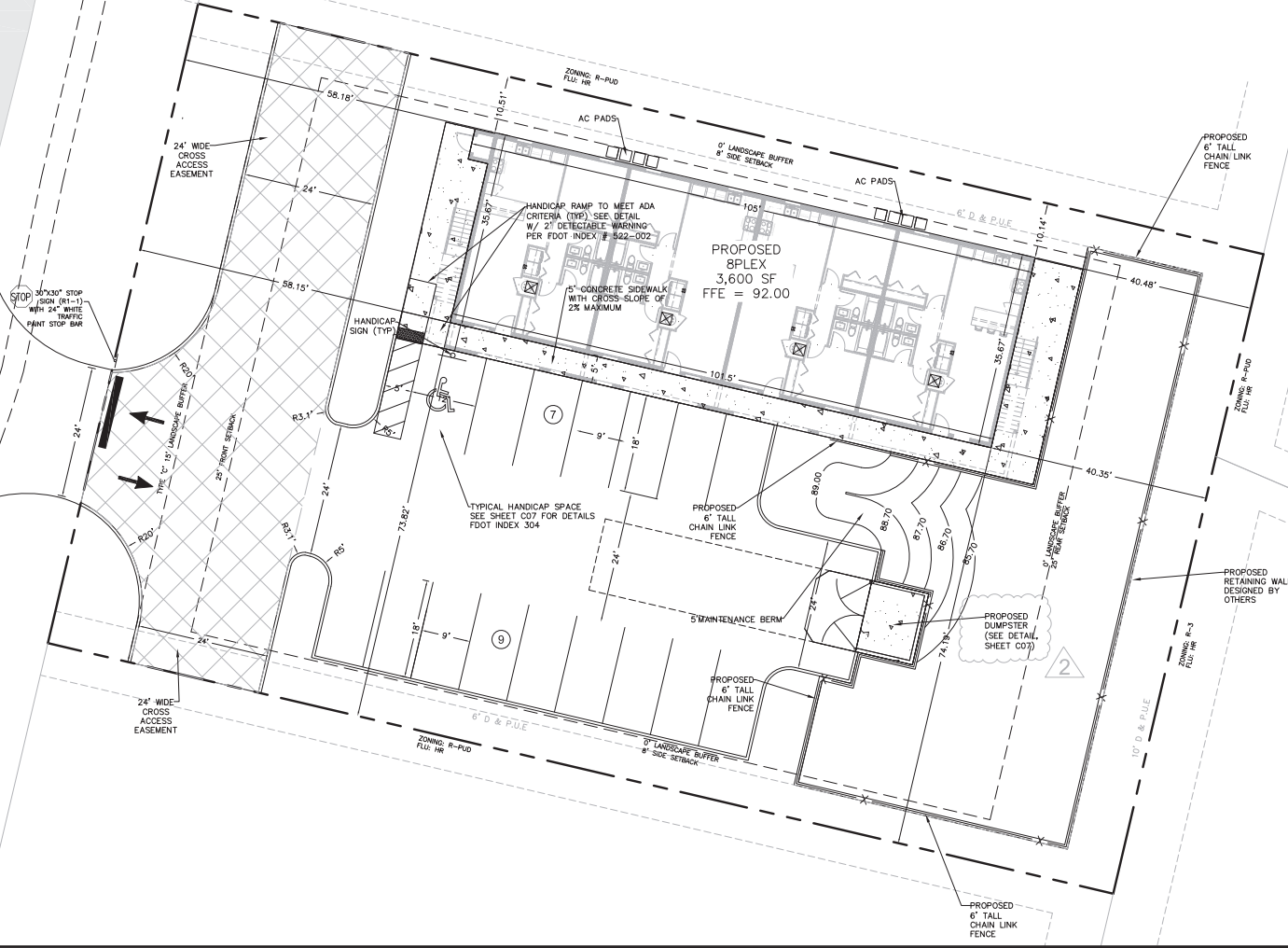
LANDSCAPE BUFFER: REQUIRED

FRONT (WEST) 15 FEET (ROW)
SIDE (NORTH) 0 FEET (RPUD)
REAR (EAST) 0 FEET (R-3)
SIDE (SOUTH) 0 FEET (RPUD)



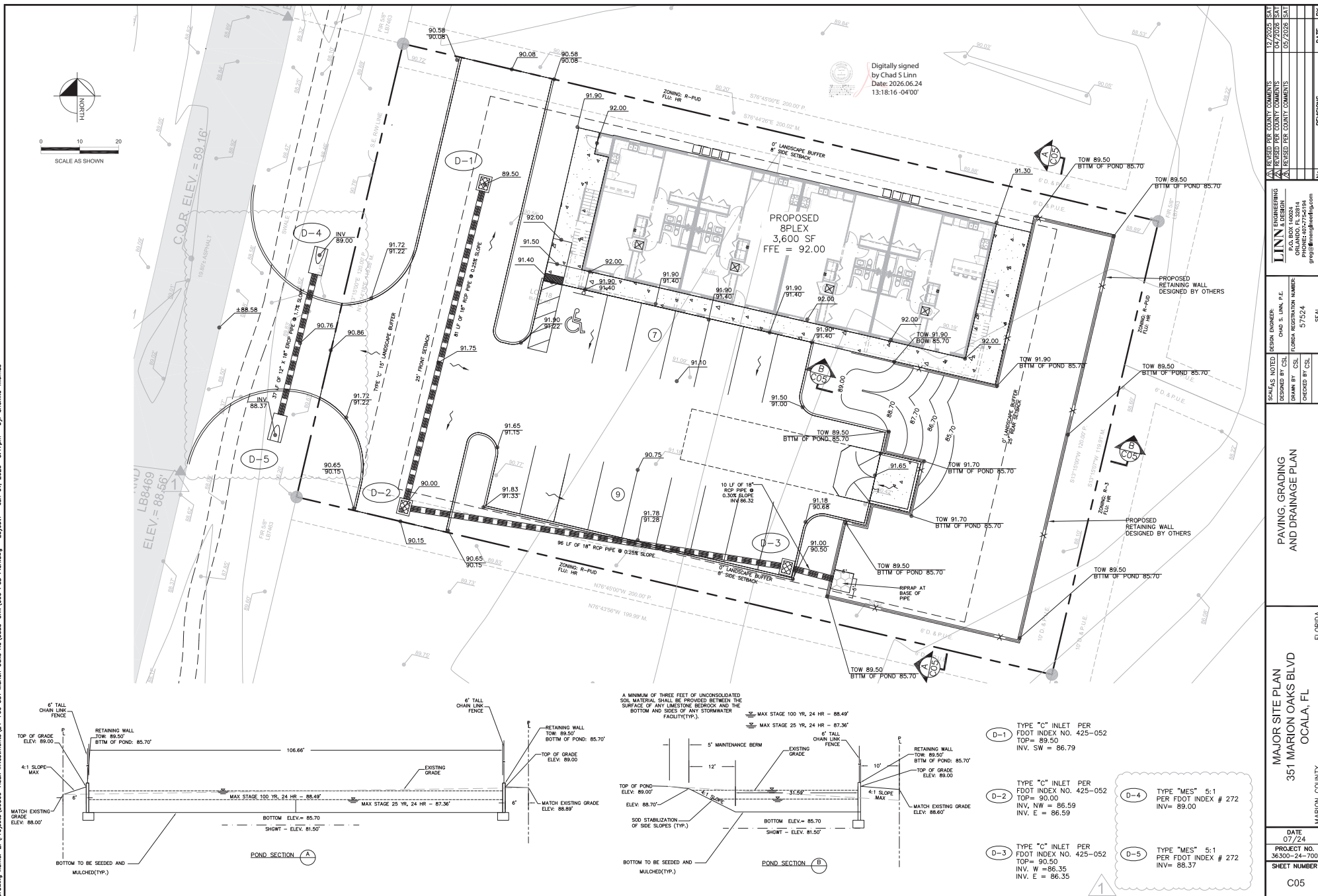
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36300-24-700	
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MAJOR SITE PLAN	
351 MARION OAKS BLVD	
OCALA, FL	
FLORIDA	
MARION COUNTY	
DESIGNED BY	
CHAD S. LINN, P.E.	
FLORIDA REGISTRATION NUMBER	
57524	
DRAWN BY	
CSL	
CHECKED BY	
CSL	
SCALE(S) NOTED	
DESIGNED BY	
CHAD S. LINN, P.E.	
FLORIDA REGISTRATION NUMBER	
57524	
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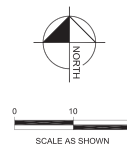
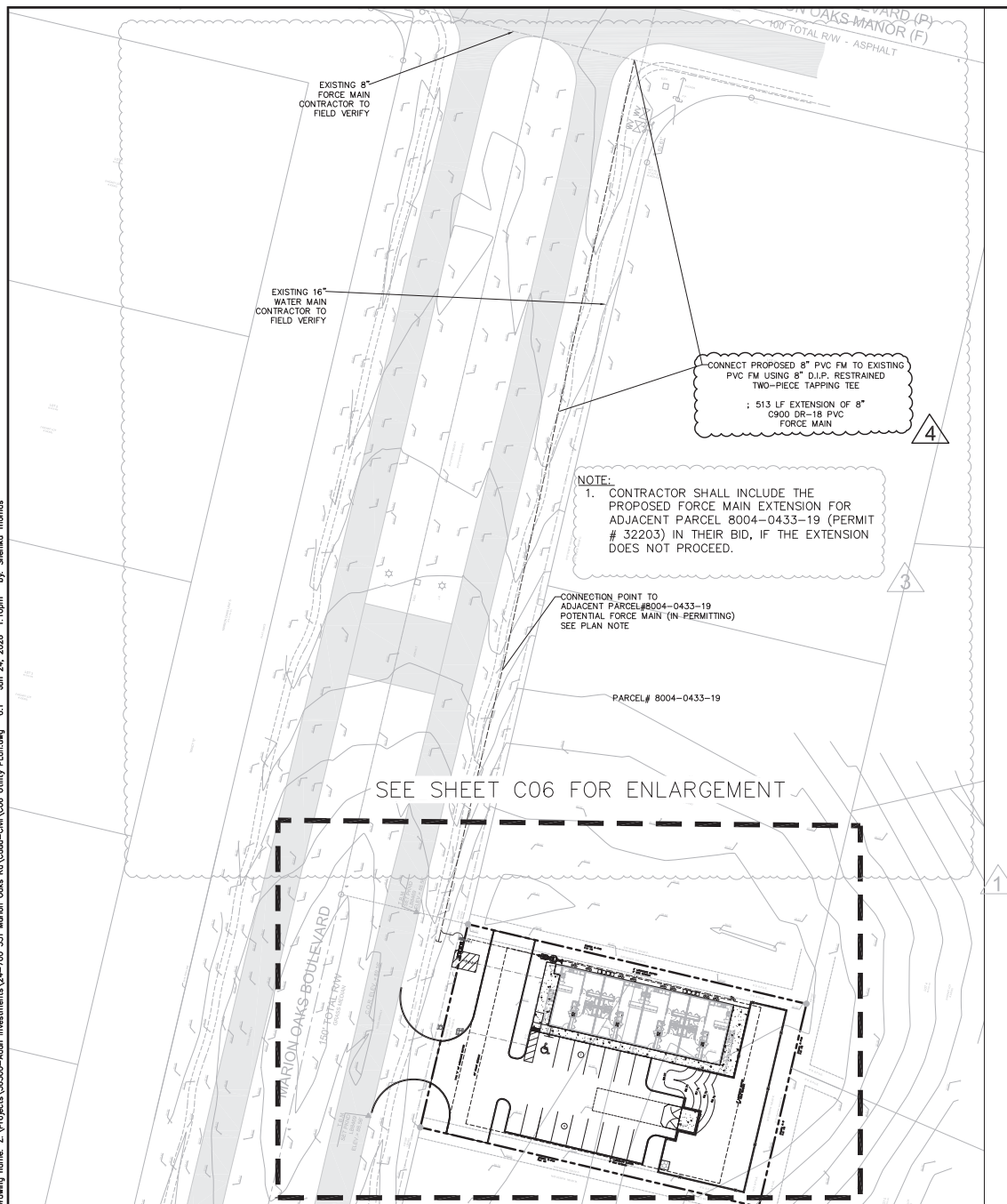




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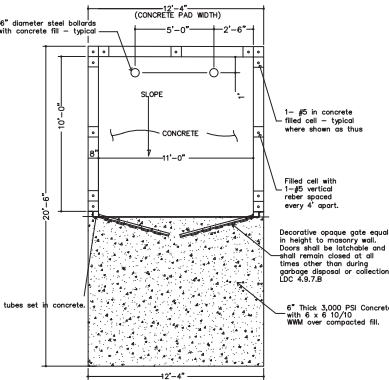
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DATE 07/24	MAJOR SITE PLAN 351 MARION OAKS BLVD OCALA, FL	UTILITY PLAN CONNECTION	DESIGN ENGINEER CHAD S. LINN, P.E. FLORIDA REGISTRATION NUMBER 57524	REVISIONS	DATE	BY
PROJECT NO. 36300-24-700	MARION COUNTY	FLORIDA	SCALE/AS NOTED DESIGNED BY CSEL DRAWN BY CSEL CHECKED BY CSEL	REVISIONS	DATE	BY
SHEET NUMBER C06.1						

- STRUCTURAL NOTES**
Foundation & Concrete Notes:
- Concrete 28 Day Strength shall be as follows:
 - Footings/Grade Beams 3,000 psi
 - Slabs on Grade 3,000 psi
 - All footings shall bear on firm undisturbed residual soil and/or engineered earth. If compressive strength of its maximum dry density is per ASTM D 698-70 (Standard Proctor), unless noted otherwise, the soil bearing capacity is to be verified by a geotechnical Engineer prior to construction.
 - All concrete and reinforcing steel shall conform to ACI 318 and ACI 301 latest edition, and ASTM A615-60. Contractor to have copies of the ACI documents at the job site during construction.
 - Provide 2'-6" x 2'-0" corner bars at corners of all continuous reinforced elements such as walls, footings, band beams, etc. Corner bars shall be lap welded, lapped, welded, and spliced as per continuous reinforcing.
 - All reinforcing steel lap welds shall be Class "B" with 24" minimum, unless otherwise noted.
 - The following minimum concrete cover shall be provided for reinforcing bars (per ACI 318):
 - Cast against and permanently exposed earth 3"
 - Formed and Exposed to Earth or Weather 2"
 - 6" thru #10 bars, a smaller 1 1/2"
 - 1) Sides, walls, and joint (if T-bar and smaller) 3/4"
 - 2) Beams, girders, and columns 1 1/2"*(Provide rebar, lap, splice, splices)*
 - Contraction joints shown may be saw cuts 1/8" wide x 1/4" slot thickness or other identified and approved method unless noted otherwise.

DUMPSTER ENCLOSURE SECTION

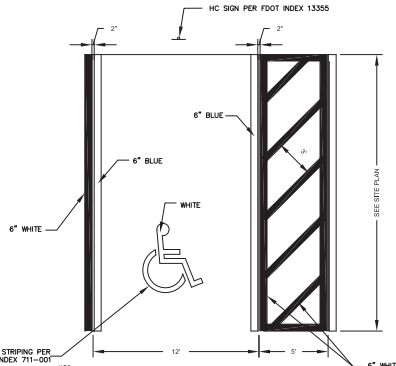
- NOTES:**
- THE MASONRY WALL SHALL BE DECORATIVELY FINISHED CONCRETE MASONRY UNIT, BRICK, STUCCO, OR OTHER MATERIAL MATCHING THE EXTERIOR OF THE PRINCIPAL BUILDING.
 - ENTRANCE OF DUMPSTER PAD WILL BE RAISED AND THE OUTSIDE PAVING WILL BE SLOPED AWAY FROM THE PAD TO PREVENT STORM WATER INTRUSION.
 - CHARLINK, PAINTED OR UNPAINTED BLOCK WALLS, BARBED WIRE AND WOOD ARE PROHIBITED AS PART OF A WALL.
 - EACH ENCLOSURE SHALL INCLUDE A DECORATIVE OPAQUE GATE (EQUAL IN HEIGHT TO THE MASONRY WALL) CHARLINK WITH PRIVACY SLATS IS NOT CONSIDERED OPAQUE MATERIAL.



SINGLE DUMPSTER ENCLOSURE PLAN

HANDICAP PARKING PAVEMENT MARKING

NTS

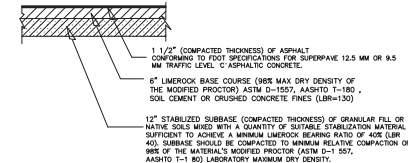


HANDICAP SIGN DETAIL

NOTE:

- ALL LETTERS ARE 1" SERIES "C" PER MUTCD.
- TOP PORTION OF SIGN SHALL HAVE (ENGINEERING GRADE) BLUE BACKGROUND WITH WHITE REFLECTORIZED LEGEND AND BORDER.
- BOTTOM PORTION OF SIGN SHALL HAVE A REFLECTORIZED (ENGINEERING GRADE) WHITE BACKGROUND WITH WHITE OPAQUE LEGEND AND BORDER.
- FINE NOTIFICATION SIGN SHALL HAVE A REFLECTORIZED (ENGINEERING GRADE) WHITE BACKGROUND WITH BLACK OPAQUE LEGEND AND BORDER.
- ONE (1) SIGN REQUIRED FOR EACH PARKING SPACE.
- INSTALLATION HEIGHT OF SIGN SHALL BE IN ACCORDANCE WITH SECTION 24-23 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

CONCRETE SIDEWALK DETAIL ON SITE



TYPICAL PAVEMENT SECTION

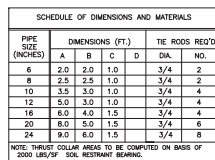
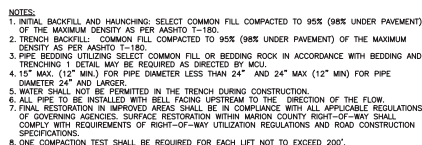
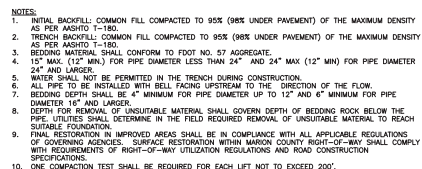
N.T.S.

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



Digitally signed
by Chad S Linn
Date: 2026.06.24
13:22:16 -04'00'

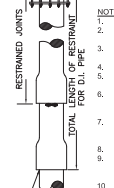
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PROJECT NO.	36300-24-700	PROJECT NO.	36300-24-700
SHEET NUMBER	C07	SHEET NUMBER	C07
MAJOR SITE PLAN	351 MARION OAKS BLVD	MAJOR SITE PLAN	351 MARION OAKS BLVD
OCALA, FL	OCALA, FL	OCALA, FL	OCALA, FL
MARION COUNTY	MARION COUNTY	MARION COUNTY	MARION COUNTY
FLORIDA	FLORIDA	FLORIDA	FLORIDA
DESIGN ENGINEER	CHAD S. LINN, P.E.	DESIGN ENGINEER	CHAD S. LINN, P.E.
FLORIDA REGISTRATION NUMBER	57524	FLORIDA REGISTRATION NUMBER	57524
DESIGNED BY	CSL	DESIGNED BY	CSL
DRAWN BY	CSL	DRAWN BY	CSL
CHECKED BY	CSL	CHECKED BY	CSL
SEAL		SEAL	
CONSTRUCTION DETAILS		CONSTRUCTION DETAILS	
REVISIONS		REVISIONS	
NO.		NO.	
DATE		DATE	
BY		BY	



PIPE SIZE (INCHES)	DIMENSIONS (FT.)				TIE ROOS REQ'D.	
	A	B	C	D	DIA.	NO.
6	2.0	2.0	1.0		3/4	2
8	2.5	2.5	1.0		3/4	2
10	3.5	3.0	1.0		3/4	4
12	5.0	3.0	1.0		3/4	4
16	6.0	4.0	1.5		3/4	4
20	8.0	5.0	1.5		3/4	6
24	9.0	6.0	1.5		3/4	8

NOTE: THRUST COLLAR AREA TO BE COMPUTED ON BASIS OF 2000 LBS/SQ. REQ. RESTRAINT BEARING.

- NOTES:
1. ADDITIONAL REINFORCEMENTS SHALL BE AS SPECIFIED BY THE ENGINEER.
 2. MINIMUM COMPRESSIVE STRENGTH FOR CONCRETE SHALL BE 3000 PSI.
 3. BEDDING, BACKFILL AND COMPACTION SHALL BE AS SPECIFIED ELSEWHERE IN THE LAND DEVELOPMENT CODE.
 4. ALL FORM BOARDS SHALL BE REMOVED PRIOR TO BACKFILL.
 5. NO ALLOWANCE SHALL BE MADE FOR FRICTION BETWEEN THE PIPE WALL AND THE THRUST COLLAR.
 6. DESIGN PRESSURE: 150 PSI.



MINIMUM RESTRAINED LENGTH (FT)	H=HORIZONTAL
- EACH SIDE OF FITTING AND VALVE	VU=VERTICAL-UP
FOR DIP, PE ENCASED DIP OR BARE PVC	VD=VERTICAL-DOWN
WATER MAIN: PRESSURE: 150 PSI, DEPTH OF COVER: 3.0 ft.	

REQUIRED RESTRAINED LENGTH ON WATER MAIN										REQUIRED RESTRAINED LENGTH ON THE BRANCH										
Bend type		Pipe Length (ft)								TEE FITTING		Pipe Length (in)								
Angle		4"	6"	8"	10"	12"	16"	20"	24"	Direction of Branch		4"	6"	8"	10"	12"	16"	20"	24"	
1/2"	11°	W	2	3	4	5	6	7	8	D	4"	39	28	18	16	10	0	0	0	
		VO	2	3	4	5	6	7	8		9	4"	33	24	16	14	9	5	0	0
1"	11°	W	4	6	7	9	10	12	14	16	D	6"	69	52	33	28	17	11	6	34
		VO	4	6	7	9	10	12	14	16		6"	107	100	65	58	34	19	7	34
1 1/2"	11°	W	6	9	11	13	15	18	21	24	D	10"	117	113	73	64	39	23	10	50
		VO	6	9	11	13	15	18	21	24		10"	173	168	111	100	61	34	19	74
2"	11°	W	12	17	22	27	33	40	48	56	D	16"	178	176	116	104	64	38	21	109
		VO	12	17	22	27	33	40	48	56		16"	259	259	161	146	90	50	28	134
4"	11°	W	6	11	15	20	25	30	36	42	D	24"								
		VO	25	35	46	56	65	75	85	95		24"								
6"	11°	W	19	27	35	44	53	62	72	83	D									
		VO	27	39	50	61	72	83	94	105										
8"	11°	W	40	61	81	101	121	141	161	181	D									
		VO	41	65	111	135	159	183	207	231										
10"	11°	W	61	95	119	143	167	191	215	239	D									
		VO	61	95	119	143	167	191	215	239										
12"	11°	W	81	125	149	173	197	221	245	269	D									
		VO	81	125	149	173	197	221	245	269										
16"	11°	W	125	193	241	289	337	385	433	481	D									
		VO	125	193	241	289	337	385	433	481										
20"	11°	W	167	251	317	383	449	515	581	647	D									
		VO	167	251	317	383	449	515	581	647										
24"	11°	W	207	307	387	467	547	627	707	787	D									
		VO	207	307	387	467	547	627	707	787										
30"	11°	W	267	397	497	597	697	797	897	997	D									
		VO	267	397	497	597	697	797	897	997										

Minimum Design Criteria

Bedding type: A

Soil Category: 1.5

Sand: Faint

Sand-Silt: Faint

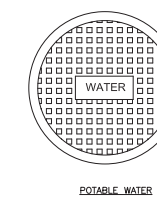
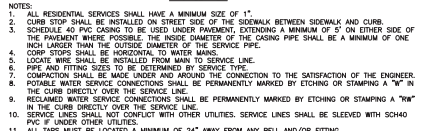
Coarse Grained Soil: Faint

REQUIRED RESTRAINED LENGTH ON FORCE MAIN											
Pipe Type (ft)		Pipe Length (ft)									
Base Type	Derivation	8"	10"	12"	14"	16"	18"	20"	24"		
11-14"	VSU	2	2	3	4	4	5	6	7		
	VSU	2	2	3	4	4	5	6	7		
	VSU	2	2	3	4	4	5	6	7		
12-17"	H	3	5	6	7	8	10	12	14		
	VSU	3	5	6	7	8	10	12	14		
	VSU	3	5	6	7	8	10	12	14		
20-24"	H	6	9	11	14	16	20	24	28		
	VSU	6	9	11	14	16	20	24	28		
	VSU	6	9	11	14	16	20	24	28		
30-36"	H	15	21	27	34	38	48	57	66		
	VSU	15	21	27	34	38	48	57	66		
	VSU	15	21	27	34	38	48	57	66		
48-60"	H	46	65	80	102	114	144	168	191		
	VSU	46	65	80	102	114	144	168	191		
	VSU	46	65	80	102	114	144	168	191		

REQUIRED RESTRAINED LENGTH ON THE BRANCH											
Pipe Length (ft)		Diameter of Branch (ft)									
		8"	10"	12"	14"	16"	18"	20"	24"		
T FITTING	45°	25	14	4	0	0	0	0	0		
	60°	43	26	8	2	0	0	0	0		
	90°	68	38	18	5	1	0	0	0		
Diameter of Branch	10°	0	0	0	0	0	0	0	0		
	12°	0	0	0	0	0	0	0	0		
	14°	0	0	0	0	0	0	0	0		
24"	16°	0	0	0	0	0	0	0	0		
	18°	0	0	0	0	0	0	0	0		
	20°	0	0	0	0	0	0	0	0		

REQUIRED RESTRAINED LENGTH ON LARGER PIPE											
Pipe Length (ft)		Diameter of Fitting (ft)									
		8"	10"	12"	14"	16"	18"	20"	24"		
FITTING	45°	10	5	2	0	0	0	0	0		
	60°	17	9	4	1	0	0	0	0		
	90°	27	14	7	3	1	0	0	0		
Diameter of Branch	10°	0	0	0	0	0	0	0	0		
	12°	0	0	0	0	0	0	0	0		
	14°	0	0	0	0	0	0	0	0		
24"	16°	0	0	0	0	0	0	0	0		
	18°	0	0	0	0	0	0	0	0		
	20°	0	0	0	0	0	0	0	0		

 MARION COUNTY MISSISSIPPI	MCBCC EFFECTIVE 04/13/2023	RESTRAINED PIPE TABLE
	REVISION # NA	



	MCBCC EFFECTIVE 04/13/2023	BEDDING AND TRENCHING 1
	REVISION # 2	

7.3.2		MCBCC EFFECTIVE 04/13/2023	BEDDING AND TRENCHING 2
UT 102		REVISION # 2	

	MCBCC EFFECTIVE 04/13/2023	THRUST COLLAR WATER MAINS	7.3.2
	REVISION # NA		UT 2024

	MCBCC EFFECTIVE 04/13/2023	WATER AND RECLAIMED WATER SERVICE (TYPICAL)
	REVISION # 2	

2		MCBCC EFFECTIVE 04/13/2023	TYPICAL VALVE BOX COVER	7.3.2 UT
		REVISION # NA		11

	MOCOC EFFECTIVE 04/13/2023	RESTRAINED PIPE TABLE	7.3.2	
	REVISION # NA		UT 116A	

 Marion County UTILITIES	MCBC EFFECTIVE 04/13/2023	RESTRAINED PIPE TABLE	7.3.2
	REVISION # NA		UT 116B

Digitally signed
by Chad S Linn
Date:
2026.06.24
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	DATE	BY
No.	REVISIONS	
④	REVISED PER COUNTY COMMENTS	12/20/2025 SAT
③	REVISED PER COUNTY COMMENTS	04/20/2026 SAT
②	REVISED PER COUNTY COMMENTS	05/20/2026 SAT
①	REVISED PER COUNTY COMMENTS	

MJENN ENGINEERING & DESIGN
P.O. BOX 140024
CHANDLER, AZ 85244
PHONE: 480-779-5194
info@mjengineering.com

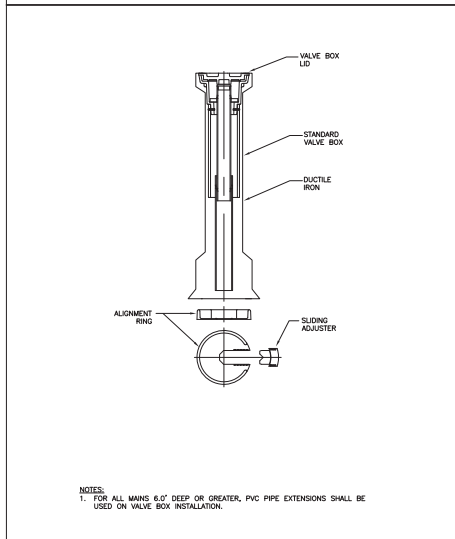
SCALE AS NOTED	DESIGN ENGINEER:
DESIGNED BY CSL	CHAD S. LINN, P.E.
DRAWN BY CSL	FLORIDA REGISTRATION NUMBER:
CHECKED BY CSL	57524
	SEAL

UTILITY DETAILS

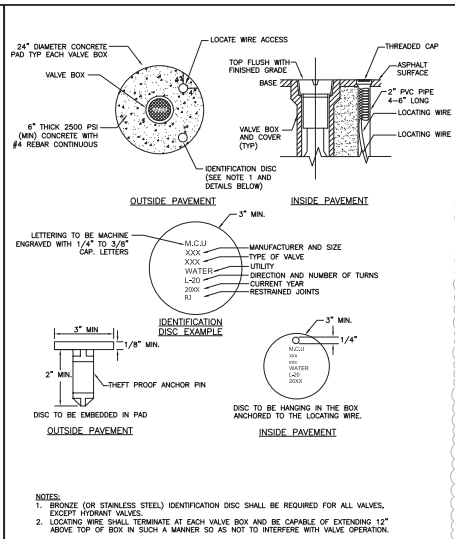
FLORIDA

MAJOR SITE PLAN
351 MARION OAKS BLV
OCALA, FL
NTY

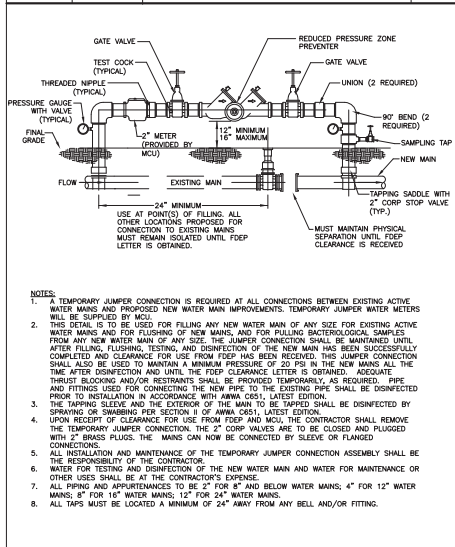
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PROJECT NO.	36300-24-700
SHEET NUMBER	



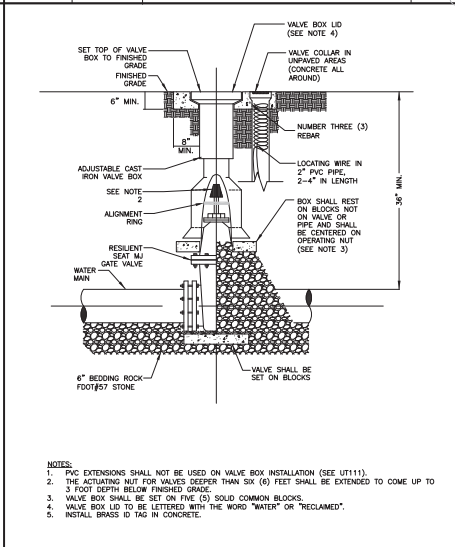
7.3.2
UT 111
MCBC EFFECTIVE 04/13/2023
REVISION # 1
SEALED VALVE BOX, ADJUSTABLE



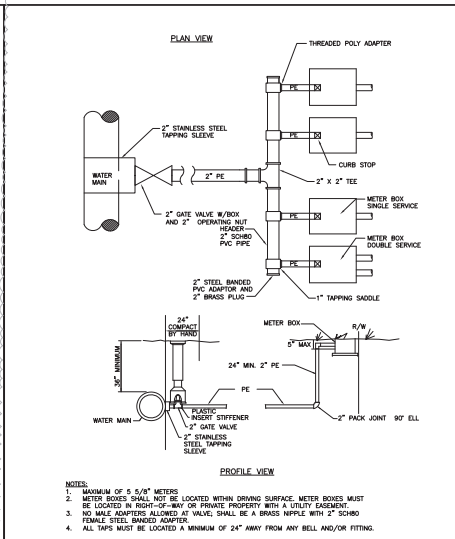
7.3.2
UT 112
MCBC EFFECTIVE 04/13/2023
REVISION # 1
VALVE BOX PAD



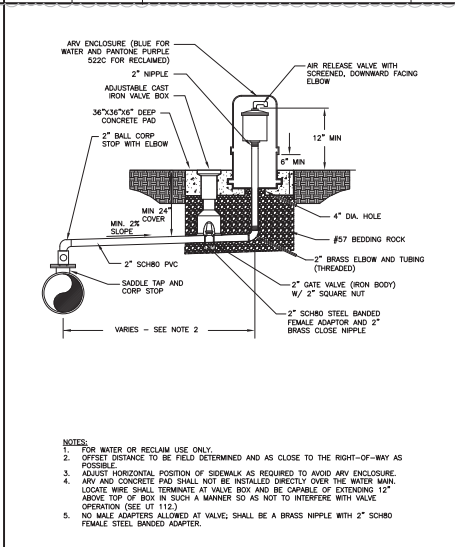
7.3.2
UT 203
MCBC EFFECTIVE 04/13/2023
REVISION # 2
TEMPORARY JUMPER CONNECTION



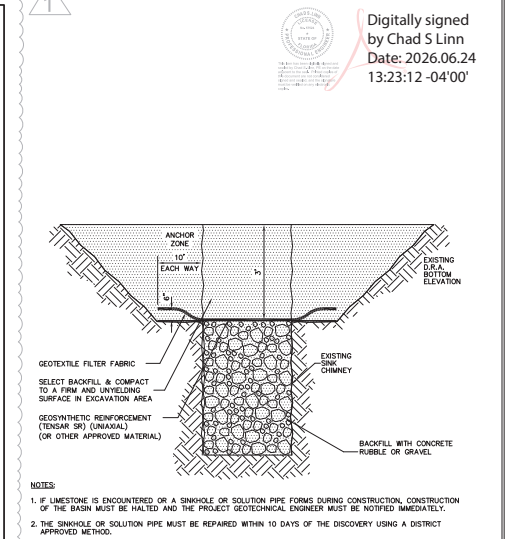
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UT 204
MCBC EFFECTIVE 04/13/2023
REVISION # 2
GATE VALVE WATER AND RECLAIMED MAINS



7.3.2
UT 202
MCBC EFFECTIVE 04/13/2023
REVISION # 1
METER BANK 2\"/>



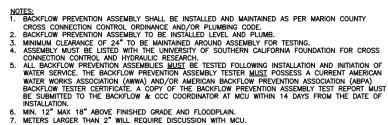
7.3.2
UT 206
MCBC EFFECTIVE 04/13/2023
REVISION # 2
ABOVEGROUND OFFSET WATER OR RECLAIM AIR RELEASE VALVE



7.3.2
UT 208
MCBC EFFECTIVE 04/13/2023
REVISION # 2
FIRE LINE DOUBLE DETECTOR CHECK VALVE ASSEMBLY

Digitally signed by Chad S Linn Date: 2026.06.24 13:23:12 -04'00'

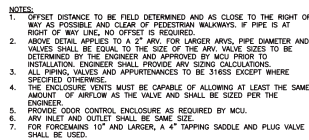
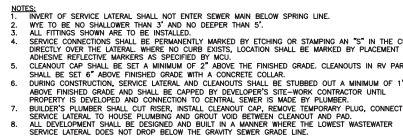
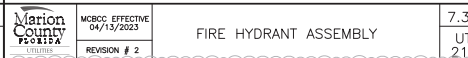
DESIGNED BY	CHAD S. LINN, P.E.	FLORIDA REGISTRATION NUMBER	57524
DRAWN BY	CSL	CHECKED BY	CSL
SCALE	NOTED	DATE	07/24
PROJECT NO.	36300-24-700	SHEET NUMBER	C09
MAJOR SITE PLAN	351 MARION OAKS BLVD	OCALA, FL	MARION COUNTY
UTILITY DETAILS			
FLORIDA			
REVISIONS			
NO.	DATE	BY	
1	07/2025	SA	
2	04/2026	SA	
3	05/2026	SA	
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100	05/2026	SA	



PIPE SIZE (INCHES)	DIMENSIONS (FT.)				THE ROOS REQ'D	
	A	B	C	D	DIA.	NO.
6	2.0	2.0	1.0		3/4	2
8	2.5	2.5	1.0		3/4	2
10	3.0	2.5	1.0		3/4	4
12	4.0	3.0	1.0		3/4	4
16	5.5	3.5	1.5		3/4	4
20	7.5	4.0	1.5		3/4	4
24	8.5	5.0	1.5		3/4	6

NOTE: THRUST COLLAR AREAS TO BE COMPUTED ON BASIS OF 2000 LBS/SF SOIL RESTRAINT BEARING.

- NOTES:
1. ADDITIONAL REINFORCEMENTS SHALL BE AS SPECIFIED BY THE ENGINEER.
 2. MINIMUM COMPRESSIVE STRENGTH FOR CONCRETE SHALL BE 3000 PSI.
 3. BEDDING, BACKFILL, AND COMPACTION SHALL BE AS SPECIFIED ELSEWHERE IN THE STANDARD DRAWINGS.
 4. ALL FORM BOARDS SHALL BE REMOVED PRIOR TO BACKFILL.
 5. NO ALLOWANCE SHALL BE MADE FOR FRICTION BETWEEN THE PIPE WALL AND THE THRUST COLLAR.
 6. DESIGN PRESSURE: 100 PSI.
 7. REQUIRED FOR LINE STOPS, AS DETERMINED BY MCU.



7/1/19 has been 4824, issued by Chad E. Jones, PE, and sent to the state. The document is not complete and signed, and it must be written on and signed.

Digitally signed
by Chad S Linn
Date:
2026.06.24
13:23:33 -04'00'

MUNICIPALITY OF		REVISIONS		DATE	BY
1	REVISED PER COUNTY COMMENTS			12/20/2025	SAT
2	REVISED PER COUNTY COMMENTS			04/20/2026	SAT
3	REVISED PER COUNTY COMMENTS			05/20/2026	SAT

CLINN ENGINEERING & DESIGN

P.O. BOX 140024
 OMAHA, NE 68144
 PHONE: 402-778-5194
info@clinnengineering.com

CLINN ENGINEERING & DESIGN

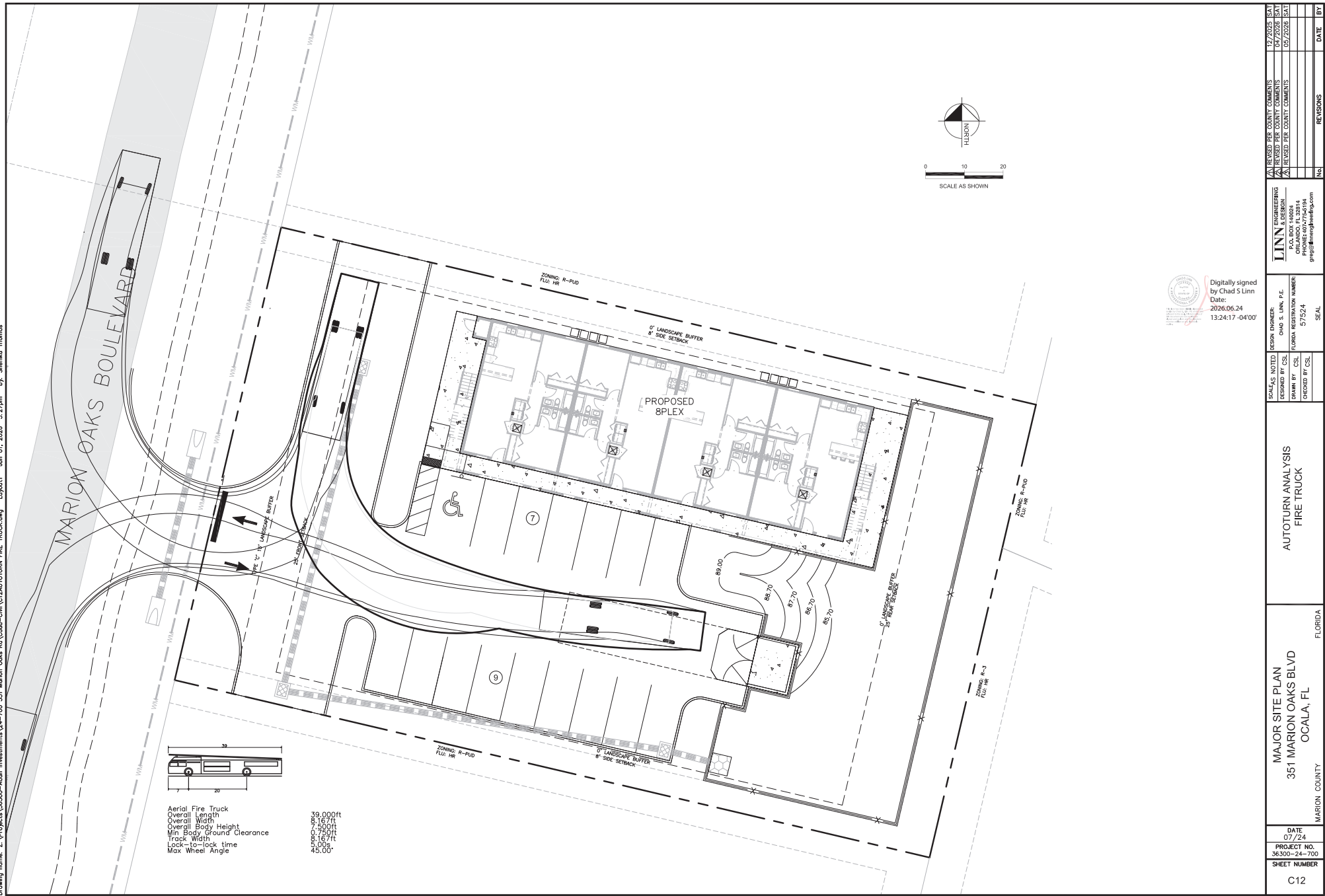
SCALE AS NOTED	DESIGN ENGINEER:
DESIGNED BY CSL	CHAD S. LINN, P.E.
DRAWN BY CSL	FLORIDA REGISTRATION NUMBER:
CHECKED BY CSL	57524
	SEAL

UTILITY DETAILS

MAJOR SITE PLAN
351 MARION OAKS BLVD
OCALA, FL
COUNTY FLORIDA

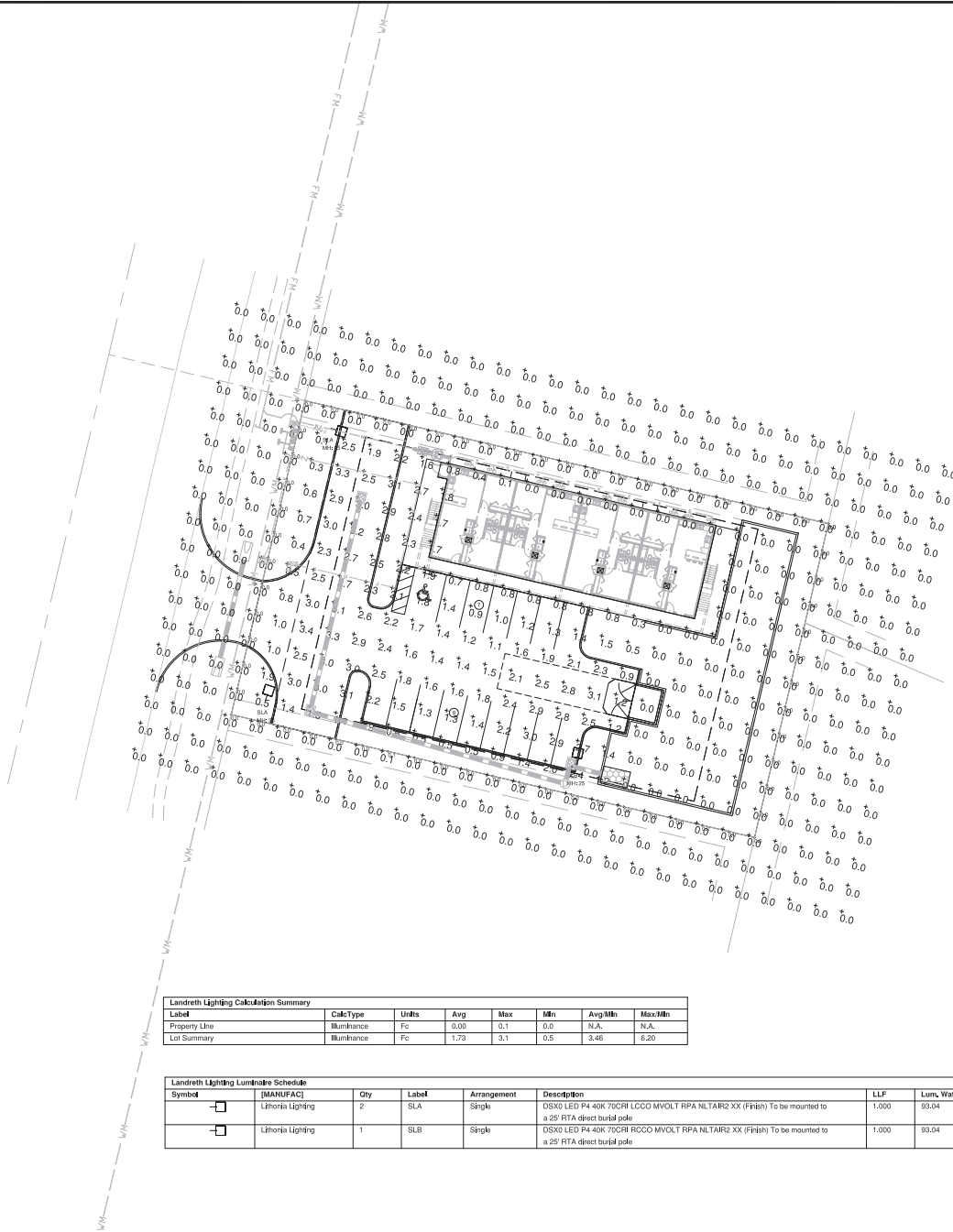
DATE	07/24
PROJECT NO.	36300-24-700
SHEET NUMBER	C10

Drawing name: Z:\Projects\36300-Adon Investments\24-700 351 Marion Oaks Rd\Cadd-Civil\C12AUTOTURN FIRE TRUCK.dwg Jun 01, 2026 3:27pm by: Shenika Thomas



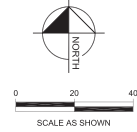
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by Chad S Linn
Date:
2026.06.24
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MARION COUNTY		FLORIDA	
MAJOR SITE PLAN		AUTOTURN ANALYSIS	
351 MARION OAKS BLVD		FIRE TRUCK	
OCALA, FL			
DATE	07/24	PROJECT NO.	36300-24-700
SHEET NUMBER	C12	SHEET NUMBER	700
SCALAS NOTED		SEAL	
DESIGNED BY CSJ		SEAL	
DRAWN BY CSJ		SEAL	
CHECKED BY CSJ		SEAL	
FLORIDA REGISTRATION NUMBER:		57524	
P.O. BOX 10024		P.O. BOX 10024	
OCALA, FL 34476		OCALA, FL 34476	
PHONE: 407-7545104		PHONE: 407-7545104	
greg@lanningengineering.com		greg@lanningengineering.com	
LANNING ENGINEERING		LANNING ENGINEERING	
DESIGNED FOR COUNTY COMMENTS		DESIGNED FOR COUNTY COMMENTS	
REVISIONS PER COUNTY COMMENTS		REVISIONS PER COUNTY COMMENTS	
05/2024		05/2024	
DATE		DATE	
BY		BY	



Landreth Lighting Calculation Summary						
Label	CalcType	Units	Avg	Max	Min	Avg/Min
Property Line	Illuminance	Fc	0.00	0.1	0.0	N/A
Lot Summary	Illuminance	Fc	1.73	3.1	0.5	3.48

Landreth Lighting Luminaire Schedule								
Symbol	(MANUFAC)	Qty	Label	Arrangement	Description	LLF	Lum. Watts	BUG Rating
	Lithonis Lighting	2	SLA	Single	DSX0 LED P4 40K 70CRI LCCO MVOLT RPA NLTAIR2 XX (F/Flt) To be mounted to a 25' RTA direct burial pole	1.000	93.04	B1-U0-G2
	Lithonis Lighting	1	SLB	Single	DSX0 LED P4 40K 70CRI RCCO MVOLT RPA NLTAIR2 XX (F/Flt) To be mounted to a 25' RTA direct burial pole	1.000	93.04	B1-U0-G2



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2026.06.24
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REVISIONS		DATE	BY
No.	REVISIONS	DATE	BY
1	REVISED PER COUNTY COMMENTS	12/20/2025	SA
2	REVISED PER COUNTY COMMENTS	04/20/2026	SA
3	REVISED PER COUNTY COMMENTS	05/20/2026	SA
LINN ENGINEERING & DESIGN			
1000 S. MARION OAKS BLVD			
ORLANDO, FL 32814			
PHONE: 407-775-0894			
glinn@linneng.com			
DESIGN ENGINEER		CHAD S. LINN, P.E.	
DESIGNED BY		CSL	
DRAWN BY		CSL	
CHECKED BY		CSL	
FLORIDA REGISTRATION NUMBER		57524	
SEAL			
PHOTOMETRICS			
MAJOR SITE PLAN			
351 MARION OAKS BLVD			
OCALA, FL			
FLORIDA			
MARION COUNTY			
DATE		07/24	
PROJECT NO.		36300-24-700	
SHEET NUMBER		C13	



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.

MATERIAL, LANDSCAPING AND IRRIGATION REQUIREMENTS.

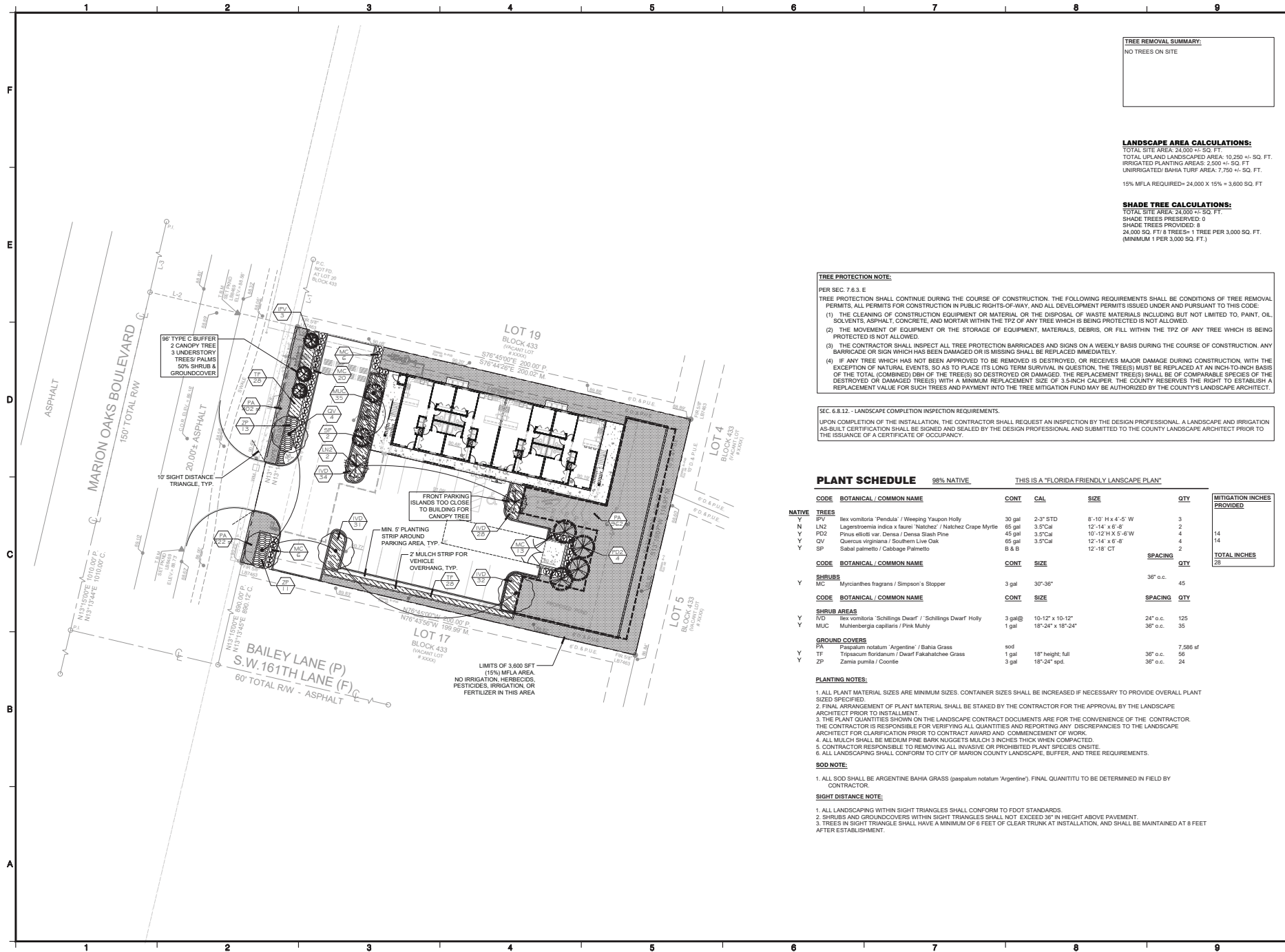
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by Chad S Linn
Date: 2026.06.24
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MAJOR SITE PLAN 351 MARION OAKS BLVD OCALA, FL MARION COUNTY FLORIDA	DATE
	07/24
	PROJECT NO.
	36.300-24-700
	SHEET NUMBER
	SWPPP 1

[illegible]

MAJOR SITE PLAN	FLORIDA	DATE 07/24
351 MARION OAKS BLVD		PROJECT NO. 3630-24-700
OCALA, FL		SHEET NUMBER SWPPP 2
MARION COUNTY		
EROSION CONTROL & STORMWATER POLLUTION PREVENTION PLAN		
SCALE/S NOTED DESIGNED BY: UNL, P.E. DRAWN BY: CSJ CHECKED BY: CSJ		DESIGN NUMBER: 5/524 SEAL
LINN ENGINEERING 418 ELMEN P.O. BOX 11 R.O. NUNO, FL 32814 PHONE: 407-275-1804 greg@linnengineering.com		A) REVISOR FOR COUNTY COMMENTS 12/2024 CSJ B) REVISOR FOR COUNTY COMMENTS 04/2025 SAT C) REVISOR FOR COUNTY COMMENTS 05/2025 SAT

[illegible]



TREE REMOVAL SUMMARY:
NO TREES ON SITE

LANDSCAPE AREA CALCULATIONS:
TOTAL SITE AREA: 24,000 +/- SQ. FT.
TOTAL UPLAND LANDSCAPED AREA: 10,250 +/- SQ. FT.
IRRIGATED PLANTING AREAS: 2,500 +/- SQ. FT.
UNIRRIGATED BAHIA TURF AREA: 7,750 +/- SQ. FT.
15% MFLA REQUIRED= 24,000 X 15% = 3,600 SQ. FT.

SHADE TREE CALCULATIONS:
TOTAL SITE AREA: 24,000 +/- SQ. FT.
SHADE TREES PRESERVED: 0
SHADE TREES PROVIDED: 8
24,000 SQ. FT. ÷ 3 TREES= 1 TREE PER 3,000 SQ. FT.
(MINIMUM 1 PER 3,000 SQ. FT.)

TREE PROTECTION NOTE:
PER SEC. 7 & 3.8 E
TREE PROTECTION SHALL CONTINUE DURING THE COURSE OF CONSTRUCTION. THE FOLLOWING REQUIREMENTS SHALL BE CONDITIONS OF TREE REMOVAL PERMITS, ALL PERMITS FOR CONSTRUCTION IN PUBLIC RIGHTS-OF-WAY, AND ALL DEVELOPMENT PERMITS ISSUED UNDER AND PURSUANT TO THIS CODE:
(1) THE CLEANING OF CONSTRUCTION EQUIPMENT OR MATERIAL OR THE DISPOSAL OF WASTE MATERIALS INCLUDING BUT NOT LIMITED TO, PAINT, OIL, SOLVENTS, ASPHALT, CONCRETE, AND MORTAR WITHIN THE TPZ OF ANY TREE WHICH IS BEING PROTECTED IS NOT ALLOWED.
(2) THE MOVEMENT OF EQUIPMENT OR THE STORAGE OF EQUIPMENT, MATERIALS, DEBRIS, OR FILL WITHIN THE TPZ OF ANY TREE WHICH IS BEING PROTECTED IS NOT ALLOWED.
(3) THE CONTRACTOR SHALL INSPECT ALL TREE PROTECTION BARRICADES AND SIGNS ON A WEEKLY BASIS DURING THE COURSE OF CONSTRUCTION. ANY BARRICADE OR SIGN WHICH HAS BEEN DAMAGED OR IS MISSING SHALL BE REPLACED IMMEDIATELY.
(4) IF ANY TREE WHICH HAS NOT BEEN APPROVED TO BE REMOVED IS DESTROYED OR RECEIVES MAJOR DAMAGE DURING CONSTRUCTION, WITH THE EXCEPTION OF NATURAL EVENTS, SO AS TO PLACE ITS LONG TERM SURVIVAL IN QUESTION, THE TREE(S) MUST BE REPLACED AT AN INCH-TO-INCH BASIS OF THE TOTAL (COMBINED) DBH OF THE TREE(S) SO DESTROYED OR DAMAGED. THE REPLACEMENT TREE(S) SHALL BE OF COMPARABLE SPECIES OF THE DESTROYED OR DAMAGED TREE(S) WITH A MINIMUM REPLACEMENT SIZE OF 3.5-INCH CALIPER. THE COUNTY RESERVES THE RIGHT TO ESTABLISH A REPLACEMENT VALUE FOR SUCH TREES AND PAYMENT INTO THE TREE MITIGATION FUND MAY BE AUTHORIZED BY THE COUNTY'S LANDSCAPE ARCHITECT.

SEC. 6.8.12 - LANDSCAPE COMPLETION INSPECTION REQUIREMENTS.
UPON COMPLETION OF THE INSTALLATION, THE CONTRACTOR SHALL REQUEST AN INSPECTION BY THE DESIGN PROFESSIONAL, LANDSCAPE AND IRRIGATION AS-BUILT CERTIFICATION SHALL BE SIGNED AND SEALED BY THE DESIGN PROFESSIONAL AND SUBMITTED TO THE COUNTY LANDSCAPE ARCHITECT PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.

PLANT SCHEDULE		98% NATIVE	THIS IS A "FLORIDA FRIENDLY LANDSCAPE PLAN"			
CODE	BOTANICAL / COMMON NAME	CONT	CAL	SIZE	QTY	MITIGATION INCHES PROVIDED
TREES						
IV	Ilex vomitoria 'Pendula' / Weeping Yaupon Holly	30 gal	2-3" STD	8'-10' H x 4'-5' W	3	14
N2	Lagerstroemia indica x faurei 'Natchez' / Natchez Crape Myrtle	65 gal	3.5" CAL	12'-14' X 6'-8'	2	
PDZ	Pinus elliotii var. densa / Dense Slash Pine	45 gal	3.5" CAL	10'-12' H X 5'-6' W	4	
QV	Quercus virginiana / Southern Live Oak	65 gal	3.5" CAL	12'-14' x 6'-8'	4	
Y	Sabal palmetto / Cabbage Palmetto	8 & B		12'-18' CT	2	
CODE <th>BOTANICAL / COMMON NAME</th> <th>CONT</th> <th>SIZE</th> <th></th> <th>SPACING</th> <th>TOTAL INCHES</th>	BOTANICAL / COMMON NAME	CONT	SIZE		SPACING	TOTAL INCHES
SHRUBS						
Y	Myrsine fragrans / Simpson's Stopper	3 gal	30"-36"		36" o.c.	45
SHRUB AREAS						
IVD	Ilex vomitoria 'Schilling's Dwarf' / 'Schilling's Dwarf' Holly	3 gal@	10'-12" x 10'-12"		24" o.c.	125
MUC	Muhlenbergia capillaris / Pink Muhly	1 gal	18"-24" x 18"-24"		36" o.c.	35
GROUND COVERS						
PA	Paspalum notatum 'Argentine' / Bahia Grass	sod				7,586 sf
TF	Tripsacum dandatum / Dwarf Fakahatchee Grass	1 gal	18" height, full		36" o.c.	56
ZP	Zamia pumila / Coontie	3 gal	18"-24" spd.		36" o.c.	24

PLANTING NOTES:
1. ALL PLANT MATERIAL SIZES ARE MINIMUM SIZES. CONTAINER SIZES SHALL BE INCREASED IF NECESSARY TO PROVIDE OVERALL PLANT SIZED SPECIFIED.
2. FINAL ARRANGEMENT OF PLANT MATERIAL SHALL BE STATED BY THE CONTRACTOR FOR THE APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLMENT.
3. THE PLANT QUANTITIES SHOWN ON THE LANDSCAPE CONTRACT DOCUMENTS ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES AND REPORTING ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT FOR CLARIFICATION PRIOR TO CONTRACT AWARD AND COMMENCEMENT OF WORK.
4. ALL MULCH SHALL BE MEDIUM PINE BARK NUGGETS MULCH 3 INCHES THICK WHEN COMPACTED.
5. CONTRACTOR RESPONSIBLE TO REMOVING ALL INVASIVE OR PROHIBITED PLANT SPECIES ON SITE.
6. ALL LANDSCAPING SHALL CONFORM TO CITY OF MARION COUNTY LANDSCAPE, BUFFER, AND TREE REQUIREMENTS.
SOD NOTE:
1. ALL SOD SHALL BE ARGENTINE BAHIA GRASS (paspalum notatum 'Argentine'). FINAL QUANTITU TO BE DETERMINED IN FIELD BY CONTRACTOR.
SIGHT DISTANCE NOTE:
1. ALL LANDSCAPING WITHIN SIGHT TRIANGLES SHALL CONFORM TO FOOT STANDARDS.
2. SHRUBS AND GROUNDCOVERS WITHIN SIGHT TRIANGLES SHALL NOT EXCEED 36" IN HEIGHT ABOVE PAVEMENT.
3. TREES IN SIGHT TRIANGLE SHALL HAVE A MINIMUM OF 6 FEET OF CLEAR TRUNK AT INSTALLATION, AND SHALL BE MAINTAINED AT 8 FEET AFTER ESTABLISHMENT.

MAINLINE AND LATERAL LOCATION, WHERE SHOWN, IS FOR GRAPHIC CLARITY PURPOSES ONLY. INSTALL AT THE BACK OF CURB, FRONT OF WALK, BACK OF WALK, OR ADJACENT TO OTHER HARDSCAPES TO FACILITATE FUTURE LOCATION AND TO PROTECT FROM DAMAGE. ENSURE MAINLINE IS INSTALLED ACCORDING FDEP GUIDELINES AND TO IRRIGATION SPECIFICATIONS AND DETAILS.



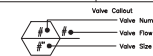
LANDSCAPE AREA CALCULATIONS:
TOTAL SITE AREA: 24,000 +/- SQ. FT.
TOTAL UPLAND LANDSCAPED AREA: 16,345 +/- SQ. FT.
IRRIGATED PLANTING AREAS: 1,257 +/- SQ. FT.
UNIRRIGATED BAHIA TURF AREA: 15,088 +/- SQ. FT.
15% MFLA REQUIRED= 24,000 X 15% = 3,600 SQ. FT.

IRRIGATED AREAS:
TOTAL IRRIGATED AREA: 1,275 +/- SQ. FT.
HIGH FLOW SPRAY AREA: 0 +/- SQ. FT.
LOW FLOW DRIP AREA: 1,275 +/- SQ. FT. (100%)

NOTE: IRRIGATION SHALL BE IN ACCORDANCE WITH MARION COUNTY CODE. THE SYSTEM IS PROPOSED AS PERMANENT.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER MODEL	QTY	ARC	PSI	GPM	RADIUS
☒	Rain Bird 1800-1400 Flood 1402	15	360	30	0.5	3'
SYMBOL	MANUFACTURER MODEL DESCRIPTION	QTY				
☒	Rain Bird XCZ-150-LCDR High Flow Control Zone Kit, for Large Commercial Drip Zones. 1-1/2" PESB-R Scrubber Globe Valve with single 1-1/2" Pressure Regulating (RPR) Quick-Check Basket Filters. Flow range 15-62gpm.	2				
	Area to Receive Dripline Jesulim TLGV-09-12 Techline Pressure Compensating Landscape Dripline with Check Valve, 9.9 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern, 17mm.	1,266 lf				
SYMBOL	MANUFACTURER MODEL DESCRIPTION	QTY				
☒	Febco 82BY 1-1/4" Reduced Pressure Backflow Preventer	1				
☒	Water Meter 1"	1				
	Irrigation Lateral Line: PVC Class 200 SDR 21	514.1 lf				
	Irrigation Mainline: PVC Schedule 40	18.6 lf				
	Pipe Sleeve: PVC Schedule 40	85.4 lf				



VALVE SCHEDULE (ALL ZONES SHALL RUN INDIVIDUALLY)

NUMBER	MODEL	SIZE	TYPE	GPM	WIRE	PSI	PSI @ POC	PRECIP
1	Rain Bird XCZ-150-LCDR	1-1/2"	Bubbler	13.87	58.4	37.0	47.2	0.96 in/h
2	Rain Bird XCZ-150-LCDR	1-1/2"	Bubbler	12.63	61.6	41.3	51.5	0.96 in/h
	Common Wire				18.6			

CRITICAL ANALYSIS

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P.O.C. NUMBER: 01
Water Source Information:

FLOW AVAILABLE
Water Meter Size: 1"
Flow Available: 20.27 GPM

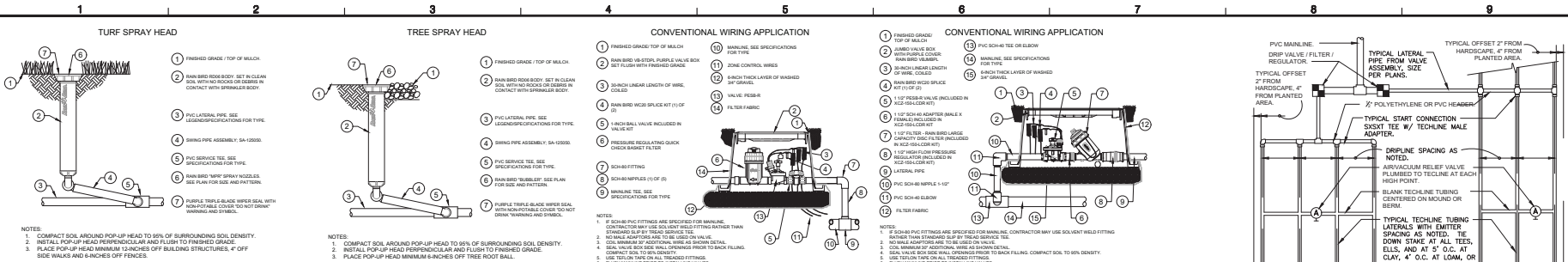
PRESSURE AVAILABLE
Static Pressure at POC: 60 PSI
Elevation Change: 5.00 ft
Service Line Size: 1"
Length of Service Line: 20.8
Pressure Available: 56 PSI

DESIGN ANALYSIS
Maximum Station Flow: 13.87 GPM
Flow Available at POC: 20.27 GPM
Residual Flow Available: 6.41 GPM

Critical Station: 2
Design Pressure: 30 PSI
Friction Loss: 4.78 PSI
Fittings Loss: 0.48 PSI
Elevation Loss: 0 PSI
Loss through Valve: 6 PSI
Pressure Req. at Critical Station: 41.3 PSI
Loss for Fittings: 0.03 PSI
Loss for Main Line: 0.28 PSI
Loss for POC to Valve Elevation: 0 PSI
Loss for Backflow: 8.98 PSI
Loss for Water Meter: 0.96 PSI
Critical Station Pressure at POC: 51.5 PSI
Pressure Available: 56 PSI
Residual Pressure Available: 4.49 PSI

Sec. 6.9.6.- Completion inspection requirements.

- A. Irrigation installation professionals shall be accountable for the proper installation and compliance with the conditions of the irrigation permit and approved plans.
- B. Upon completion of the installation, the contractor or owner shall request an inspection by the irrigation design professional. Prior to the inspection, the irrigation installation professional shall produce a clear and legible as-built diagram which accurately represents the irrigation system was installed. The diagram shall be presented and reviewed during the final inspection. The diagram may be a marked-up copy of the approved irrigation plan and shall include at a minimum:
- (1) Locations of all mainlines and mainline valves;
 - (2) Locations of all remote control valves;
 - (3) Water demand per zone in GPM, and
 - (4) Total water demand per operating cycle.
- C. The irrigation installation professional shall also provide to the owner:
- (1) Irrigation system scheduling information;
 - (2) A copy of the irrigation controller owner's manual;
 - (3) Irrigation system maintenance schedule, which includes:
 - (a) Instructions for seasonal adjustments of controller and sensors.
 - (b) Instructions covering how and when to check for leaks.
 - (c) A schedule for checking for proper irrigation distribution coverage.
 - (4) Within 60 days after installation the irrigation controller shall be adjusted to be set in accordance with the applicable irrigation schedule set forth in this Code.
- D. Upon completion of the irrigation system installation and the acceptance of the as-built diagram and operational information, a Final Inspection and Landscape/Irrigation Release shall be signed and sealed by the irrigation design professional and submitted to the County's Landscape Architect.



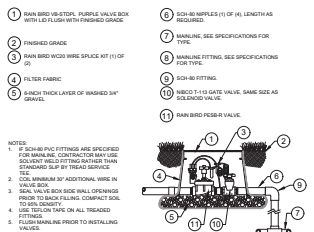
A Rain Bird RD1800 Series-RD06-S-P-45-NP-NSI
N/S Pop-Up Sprinkler W/ SA-12000 and NIP NOZZLES

B Rain Bird RD1800 Series-RD06-S-P-45-NP-NSI
N/S Pop-Up Sprinkler W/ SA-12000 and NIP NOZZLES

D RAIN BIRD XCZ-100-PRBR-COM
N/S

G RAIN BIRD XCZ-150-LCDR
N/S

CONVENTIONAL WIRING APPLICATIONS

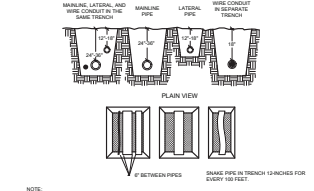


H RAIN BIRD RD100/150/200-PESB-R PRS-D
N/S WITH GATE VALVE

L MINI-CLICK II RAIN SENSOR
N/S

I RAIN BIRD ESP-LXMEF WALL MOUNT CONTROLLER
N/S IN HEAVY DUTY 88-SSBW STRONG BOX

L METER CONNECTION
N/S



M PIPE TRENCH DETAIL
N/S

N ROADWAY / HARDSCAPE SLEEVING
N/S

GENERAL NOTES

1. THE DRAWINGS ARE TO BE CONSIDERED DIAGRAMMATIC, AS IT MAY NOT HAVE BEEN POSSIBLE TO ACCURATELY DEPICT THE EXACT LOCATIONS FOR ALL MATERIAL, OR ALL JOBSITE ELEMENTS. THE INSTALLER SHALL BE EXPECTED TO MAKE MINOR ADJUSTMENTS ON THE SITE AS NEEDED, IN ORDER TO MAINTAIN COMPLETE AND ACCURATE COVERAGE, AND MAINTAIN THE INTENT OF THE DESIGN. MODIFICATIONS WHICH INCREASE THE SPACING OF HEADS, OR DECREASE THE SIZING OF PIPE, SHALL NOT BE MADE WITHOUT PRIOR CONSENT OF THE PROJECT MANAGER. THE FINAL LOCATIONS FOR ALL MAJOR EQUIPMENT, INCLUDING CONTROLLERS, VALVES, SUPPLY CONNECTIONS, MAINLINES, ETC. SHALL BE DETERMINED IN THE FIELD, STAKED OUT BY THE CONTRACTOR, USING THE DRAWINGS AS A GUIDE, AND APPROVED PRIOR TO INSTALLATION.
2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH PREVAILING CODES AND REGULATIONS. ALTHOUGH DUE DILIGENCE HAS BEEN EXERCISED IN THE PREPARATION OF THE DOCUMENTS TO AVOID CONFLICTS, IT SHALL REMAIN THE RESPONSIBILITY OF THE INSTALLER FOR VERIFICATION AND CONFORMANCE TO THE PARTICULAR CODES FOR THIS LOCATION. THE INSTALLER SHALL OBTAIN ANY NECESSARY PERMITS, LOCATES, AND INSPECTIONS.
3. ALL WORK SHALL BE CLOSELY COORDINATED WITH THAT OF OTHER TRADES, IN ORDER TO AVOID CONFLICTS. THE INSTALLATION SHALL BE COORDINATED WITH ALL NEW AND EXISTING IMPROVEMENTS, AND WITH THE ACTUAL INSTALLED BOUNDARIES, SOI LIMITS, AND PLANT LOCATIONS.
4. THE INSTALLER SHALL BE FAMILIAR WITH ALL APPLICABLE DOCUMENTS, INCLUDING ANY WRITTEN SPECIFICATIONS THAT MAY HAVE BEEN ISSUED, ANY CONFLICT FOUND BETWEEN THE VARIOUS DOCUMENTS SHALL BE SUBMITTED IN WRITING TO THE PROJECT MANAGER FOR DETERMINATION.
5. ALL MATERIAL AND LABOR NECESSARY TO PROVIDE A COMPLETE, FULLY OPERATIONAL, AND GUARANTEED SYSTEM SHALL BE CONSIDERED PART OF THE WORK, WHETHER OR NOT THEY ARE SPECIFICALLY INDICATED IN THE DOCUMENTS. THIS SHALL INCLUDE CONFORMANCE TO THE REQUIREMENTS AND RECOMMENDATIONS OF THE VARIOUS MANUFACTURERS OF THE EQUIPMENT, AND TO APPLICABLE TRAINING AND CERTIFICATION OF INSTALLATION PERSONNEL.
6. UNLESS SPECIFICALLY STATED TO THE CONTRARY, PIPING AND WIRING SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING: ALL PIPING SHALL BE INSTALLED IN SLEEVING OF ADEQUATE SIZE AND STRENGTH. SIDEWALKS AND DECKS, AND TURF PAVERS SHALL REQUIRE SLEEVING, EVEN IF NOT SHOWN ON THE DRAWINGS. CONTROL WIRING MAY BE RUN WITH A LARGER SLEEVING WITH MAINLINE PIPING, BUT ONLY IF PROTECTED BY A SMALLER CONDUIT. WIRE MAY NOT BE TAPED TO THE MAINLINE IN LIEU OF THIS CONDUIT, AS ABRASION OF THE WIRE JACKET IS LIKELY TO OCCUR.
7. SLEEVES UNDER PARKING AND DRIVEWAYS MAY BE THE RESPONSIBILITY OF OTHER THAN THE IRRIGATION CONTRACTOR (SUCH AS THE PAVING OR SITE CIVIL CONTRACTOR). CONSULT OTHER DOCUMENTS FOR ADDITIONAL INFORMATION. SLEEVES UNDER SIDEWALKS, DECKS, ETC. ARE NORMALLY INSTALLED BY THE IRRIGATION CONTRACTOR.
8. CONTROL WIRING SHALL BE ROUTED WITH THE MAINLINE WHENEVER POSSIBLE. WIRE SHALL DIRECT BURIAL PER I-94 GUIDE.
9. ALL SPRINKLER HEADS SHALL BE OF THE PROPER SIZE AND TYPE FOR THE LOCATION AND PLANT MATERIAL. HEADS SHALL BE INSTALLED IN THE PRESCRIBED MANNER, PLUMB, AND WITH THE PROPER HEIGHT WITH RESPECT TO GRADE AND/OR PLANT MATERIAL. ALL HEADS AND OTHER EQUIPMENT SHALL BE INSTALLED WITH ADEQUATE AND UNIFORM CLEARANCES FROM ALL PAVING, CURBS, SIDEWALKS, WALLS, AND OTHER OBSTACLES, SO THAT DAMAGE TO EQUIPMENT DOES NOT OCCUR DURING NORMAL LANDSCAPE MAINTENANCE OPERATIONS. ALL SPRINKLERS SHALL BE ADJUSTED TO OBTAIN OPTIMAL COVERAGE OF PLANT MATERIAL, WHILE MINIMIZING OVERSPRAY ONTO WINDOWS, WALLS, PAVING OR OTHER IMPERVIOUS SURFACES, PARTICULARLY WOODWORK AND/OR TRIM. THE INSTALLER SHALL UTILIZE THE PROPER SPRAY NOZZLE PATTERN FOR THE LOCATION, AS WELL AS PRESSURE-COMPENSATING HEADS OR SCREENS, AND ADJUSTABLE-PA-TTERN NOZZLES WHERE A FIXED PATTERN IS NOT SUITABLE TO CONTROL COVERAGE OR OVERSPRAY.
10. RISER-MOUNTED HEADS SHALL BE INSTALLED WITHIN THE FIRST ROW OF PLANT MATERIAL, SO THAT THE HEAD IS PROTECTED AND CONCEALED BY THE MATERIAL. IT MAY BE REQUIRED TO RELOCATE HEADS NOT CONFORMING TO THIS STIPULATION AFTER PLANTS ARE INSTALLED. THIS SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER. RISERS SHALL BE STAKED AS SHOWN IN THE DETAILS, AND PAINTED A DURABLE FLAT COLOR, TO BE AGREED UPON BY THE PARTIES.
11. TREE BUBBLER HEADS SHALL BE CONSIDERED TEMPORARY, AND WILL BE CAPPED OFF ONCE MATERIAL IS ESTABLISHED.
12. THE CONTROLLER SHALL REQUIRE A STANDARD 120-VAC POWER FEED, WHICH SHALL BE COORDINATED BY THE INSTALLER, AND HOOKED UP BY A LICENSED ELECTRICIAN. IT IS PREFERRED THAT A DEDICATED CIRCUIT BE PROVIDED FOR THIS POWER INPUT SURGE ARRESTOR SHALL BE PROVIDED ON THE POWER FEED, AND A DEDICATED

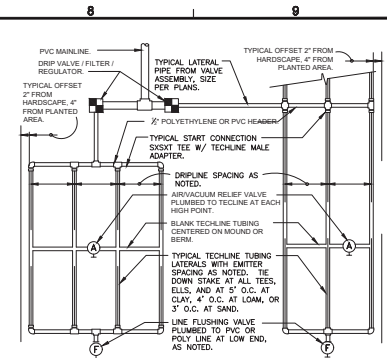
GROUND ROD/PLATE NETWORK (SEE DETAIL) SHALL BE INSTALLED, HAVING A MEASURED EARTH GROUND RESISTANCE OF NOT GREATER THAN TEN (10) OHMS.

13. THE CONTROLLER SYSTEM IS A RAIN BIRD SYSTEM. THE INSTALLER SHALL UTILIZE PERSONNEL WHO ARE SPECIFICALLY TRAINED AND CERTIFIED IN THE PROPER INSTALLATION OF THIS SYSTEM. THE INSTALLER SHALL ENLIST THE SERVICES OF THE FIELD SERVICE REPRESENTATIVE FOR ANY REQUIRED COORDINATION, ALL RELEVANT MATERIAL AND LABOR TO INSTALL THIS SYSTEM IN ACCORDANCE WITH RAIN BIRD GUIDELINES SHALL BE CONSIDERED PART OF THE WORK, WHETHER OR NOT SPECIFICALLY CALLED OUT IN THESE DOCUMENTS.

14. THE CONTROLLER SHALL BE EQUIPPED WITH A PROPERLY LOCATED AND INSTALLED RAIN SENSOR. THE SENSOR SHALL BE LOCATED IN SUCH A MANNER SO THAT IT IS UNOBSTRUCTED AND DIRECTLY EXPOSED TO NATURAL RAINFALL FROM ALL DIRECTIONS, BUT NOT TO RUNOFF WATER FROM ROOFS, ETC.

15. THE MINIMUM SUPPLY REQUIREMENT FOR THE SYSTEM AS DESIGNED IS:
SEE POC CRITICAL ANALYSIS

16. THE INSTALLER SHALL BE EXPECTED TO BE FAMILIAR WITH ALL REQUIREMENTS FOR THE WORK, AND TO CONDUCT HIS WORK IN A CLEAN, SAFE, AND WORKMANLIKE MANNER. THE OWNER RESERVES THE RIGHT TO ACT TO PROTECT HIS PROPERTY AND THE OTHER PERSONNEL AT WORK THERE AND TO MAKE EMERGENCY REPAIRS OR TAKE CORRECTIVE ACTION IF THE INSTALLER DOES NOT FULFILL HIS OBLIGATIONS IN A TIMELY MANNER. THE OWNER FURTHER RESERVES THE RIGHT TO BACK-CHARGE THE INSTALLER TO COVER SUCH EXPENSES, TO THE EXTENT ALLOWED UNDER APPLICABLE LAW.

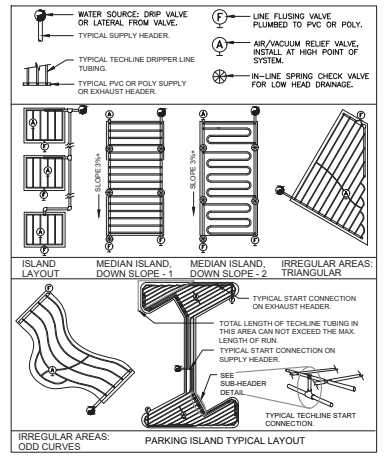


END FEED EXAMPLE CENTER FEED EXAMPLE

- SLOPED CONDITION NOTES:**
1. DRINKLINE SPACING SHOULD FOLLOW THE CONTOURS OF THE SLOPE WHENEVER POSSIBLE.
 2. INSTALL AIR RELIEF VALVE AT HIGHEST POINT.
 3. TECHLINE NORMAL SPACING WITHIN THE TOP 2/3 OF SLOPE.
 4. INSTALL TECHLINE AT NORMAL SPACING PLUS 25% AT THE BOTTOM 1/3 OF THE SLOPE.
 5. WHEN ELEVATION CHANGE IS 10 FT OR MORE, ZONE THE BOTTOM 1/3 ON A SEPARATE VALVE.

TECHLINE MAXIMUM LENGTH OF SINGLE LATERAL (FEET)									
DRIPPER SPACING	12"	16"	20"	24"	30"	36"	42"	48"	54"
DRIPPER FLOW RATE (GPH)	0.4	0.6	0.8	0.9	0.4	0.6	0.8	0.9	0.4
15	292	233	175	410	322	247	405	308	
25	397	321	238	558	438	335	553	423	
35	486	365	279	656	514	394	649	497	
45	520	407	311	732	574	439	725	555	

TECHLINE FLOW PER 100 FEET									
DRIPPER SPACING	0.4 GPH DRIPPER	0.6 GPH DRIPPER	0.8 GPH DRIPPER	0.9 GPH DRIPPER	0.4 GPH DRIPPER	0.6 GPH DRIPPER	0.8 GPH DRIPPER	0.9 GPH DRIPPER	0.4 GPH DRIPPER
DRIPPER SPACING	GPH	GPM	GPM	GPM	GPH	GPM	GPM	GPM	GPH
12"	40.00	0.67	61.00	1.02	92.00	1.53			
16"	26.67	0.44	41.00	0.68	61.00	1.02			
24"	N/A	N/A	31.00	0.51	46.00	0.77			



1 TYPICAL NETAFIM TECHLINE REQUIREMENTS
7" x 10" FX-R-NETAFIM-DRIP

	1	2	3	4	5	6	7	8	9
	IRRIGATION NOTES & SPECIFICATIONS		WIRING						
	Irrigation design based on the TDC Design Studio Landscape Plan dated 7/19/2021. Contractor shall refer to these plans to coordinate sprinkler and pipe locations.		Irrigation control wire shall be thermoplastic solid copper, single conductor, low voltage irrigation controller wire, suitable for direct burial and continuous operation at rated voltages.		Pipes must cure a minimum of 30 minutes prior to handling and placing into trenches. A longer curing time may be required; refer to the manufacturer's specifications. The pipe must cure a minimum of 24 hours prior to filling with water.		Independent runs of wire shall be located every 30' for straight runs and at every change of direction. Sleeves will be located at end points and every 20' of length. All underground items shall include depth in inch format. These POINTS once completed shall be imported into an AutoCAD DWG geo-referenced base file to be labeled accordingly. The completed AS-Built shall be a Geo-Referenced DWF file delivered to the owner on a compact disk (CD).		
F	The system has been designed to conform with the requirements of all applicable codes, laws, ordinances, rules, regulations and conventions. Should any conflict exist, the requirements of the codes shall prevail. It is the responsibility of the owner/installation contractor to ensure the entire system is installed as designed. Irrigation contractor responsible for obtaining all required permits according to federal, state and local laws.		Tape and bundle control wires every 10' and run alongside the mainline. At all turns in direction make a 2" coil of wire. At all valve boxes coil wire around a 3/4" piece of PVC pipe to make a coil using 30 linear inches of wire. Make electrical connections with 3MDBYB connectors.		Gasketed Pipe: With pipe in the trench, cut pipe square, deburr, and place beveled edge on male portion of pipe, if not using a piece with a factory bevel. Clean pipe and fittings of foreign material; then apply a small amount of pipe grease to the rubber gasket on the female end. Fully insert the male end of the pipe into the bell end of adjacent pipe until the bevel is fully seated into the bell. Restrain pipe as required.		2. Controller charts - Upon completion of "as-built" prepare controller charts; one per controller. Indicate on each chart the area controlled by a remote control valve (using a different color for each zone). This chart shall be reduced to a size that will fit inside of the controller door. The reduction shall be geometrically scaled to inside two 2mil pieces of clear plastic.		
	The scope of work is shown on the plans, notes and details. The Irrigation Contractor shall be certified as a CERTIFIED IRRIGATION CONTRACTOR by the Irrigation Association. The certification shall be current and in good standing.		Number all wires, using an electrical book of numbers, according to the plans. Number wires in all valve boxes, junction boxes and at the controller.		BACK FILL The Back fill 6" below, 6" above, and around all piping shall be of clean sand and anything beyond that in the trench can be of native material but nothing larger than 2" in diameter.		3. Grounding Certification - Provide ground certification results for each controller and pump panel grounding grid installed. This must be on a licensed electrician letter head indicating location tested (using IR pin symbols), date, time, test method, and testing results.		
	THE WORK The work specified in this section consists of furnishing all components necessary for the installation, testing, and delivery of a complete, fully functional automatic landscape irrigation system that complies with the irrigation plans, specifications, notes, and details. This work shall include, but not be limited to, the providing of all required material (if applicable (pump(s), backflows, pipes, valves, fittings, controllers, wire, primer, glue, etc.), layout, protection to the public, excavation, assembly, installation, back filling, compaction, repair of road surfaces, controller and low voltage leads to valves, cleanup, maintenance, guarantee and as-built plans.		Wire sized, numbered and colored as follows: #14 white for common #14 spare black common #14 individual color coded hot wire #14 spare yellow hot wire		Main line pipe depth measured to the top of pipe shall be: 24" minimum for 3/4"-2 1/2" PVC with a 30" minimum at vehicular crossings; 30" minimum for 3" & 4" PVC with a 36" minimum at vehicular crossings; 36" minimum for 6" PVC with a 36" minimum at vehicular crossings.		INSPECTIONS AND COORDINATION MEETINGS REQUIRED - Contractor is required to schedule, perform, and attend the following, and demonstrate to the owner and/or owners representative to their satisfaction, as follows:		
	All irrigated areas shall provide 100% head-to-head coverage from a fully automatic irrigation system with a rain (and freeze as appropriate) shut off device. If the rain shut off device is a rain sensor, it shall be installed to prevent activation by adjacent heads. Zones are prioritized first by public safety and then by hydraulic controls. This sequencing will be a mandatory punch list item.		Spare wires Leaving each controller, run six spare wires in both directions (twelve spare wires total). Install as 2 common spares (4 total) and 4 hot wires (8 total). Loop these wires into each RCV along their path and terminate in the last valve box controlled by the wires respective controller. The loop into each valve box shall extend up into the valve box a minimum of 8" and be readily accessible by opening the valve box lid. These wires must be all numbered and color coded as required in these plans.		Lateral line depths measured to top of pipe shall be: 18" minimum for 3/4"-3" PVC with a 30" minimum at vehicular crossings; 24" minimum for 4" PVC and above with a 30" minimum at vehicular crossings.		1. Pre-construction meeting - Designer and contractor to review entire install process and schedule with owner/general contractor. 2. Mainline installation inspection(s) - all mainline must be inspected for proper pipe, fittings, depth of coverage, backfill, and installation method 3. Mainline pressure test - All mainline shall be pressure tested according to this designs requirements 4. Flow Meter calibration - All flow meters must be calibrated, provide certified calibration report for all flow meters. 5. USDA Soil Quality Tests for infiltration/texture 6. Coverage and operational test 7. Final inspection 8. Punch list inspection		
E	These plans have been designed to satisfy/exceed the Florida Irrigation Society Standards and Specifications for Turf and Landscape Irrigation Systems, fourth edition. All products should be installed per manufacturer's recommendation. Contractor shall verify all underground utilities 72 hours prior to commencement of work.		Controller and Pump station Control Panel grounding - Contractor to utilize 4"X8"X5/8" copper grounding plates, 5/8"X10" copper clad grounding rods, "One Strike" CAD wells at all connection points, #8 bare copper wire, and earth contact material. Install these and other required components as outlined in the detail. Contractor to verify that the earth to ground resistance does not exceed 10 ohms. Contractor shall provide a written certification, on a licensed electrical contractors letter head, showing the date of the test, controller/pump location, and test results. Each controller/pump shall be so grounded and tested. Each component must have its own separate grounding grid, unless they are sitting side by side, in which case up to two controllers can share a common grounding grid.		Contractor shall backfill all piping, both mainline and laterals, prior to performing any pressure tests. The pipe shall be backfilled with the exception of 2" on each side of every joint (bell fittings, 90's, tees, 45's, etc.). These joints shall not be backfilled until all piping has satisfactorily passed its appropriate pressure test as outlined below.		FINAL ACCEPTANCE Final acceptance of the irrigation system will be given after the following documents and conditions have been completed and approved. Final payment will not be released until these conditions are satisfied.		
	It is the responsibility of the irrigation contractor to familiarize themselves with all grade differences, location of walls, retaining walls, structures and utilities. Do not willfully install the sprinkler system as shown on the drawings when it is obvious in the field that unknown obstruction, grade differences or differences in the area dimensions exist that might not have been considered in the engineering. Such obstructions, or differences, should be brought to the attention of the owner's authorized representative. In the event this notification is not performed, the irrigation contractor shall assume full responsibility for any revisions necessary.		LAYOUT Lay out irrigation system mainlines and lateral lines. Make the necessary adjustments as required to take into account all site obstructions and limitations prior to excavating trenches.		FLUSHING Prior to the placement of heads, flush all mainlines for a minimum of 10 minutes or until lines are completely clean of debris, whichever is longer.		1. All above inspections are completed, documented, and approved by owner. 2. Completion and acceptance of "as-built" drawings. 3. Acceptance of required controller charts and placement inside of controllers. 4. All other submittals have been made to the satisfaction of the owner.		
D	Irrigation contractor shall repair or replace all items damaged by their work. Irrigation contractor shall coordinate their work with other contractors for the location and installation of pipe sleeves and laterals through walls, under roadways and paving, etc.		Stake all sprinkler head locations. Adjust location and make the necessary modifications to nozzle types, etc. required to ensure 100% head to head coverage. Refer to the Edge of Pavement Detail on the Irrigation Detail Sheet.		TESTING Soil: At a minimum of 2 locations on the site, soil tests for Infiltration and texture shall be performed according to the USDA Soil Quality Test Kit Guide. The tests shall be documented in a USDA Soil Worksheet. (All of the above is available at http://soils.usda.gov/soiltestsheet/!test_kit.html) The completed worksheet shall be submitted to the owners representative for review/approval. Do not proceed without written direction from the owner/owner's representative.		GUARANTEE: The irrigation system shall be guaranteed for a minimum of one calendar year from the time of final acceptance.		
	The contractor shall take immediate steps to repair, replace, or restore all services to any utilities which are disrupted due to their operations. All costs involved in disruption of service and repairs due to negligence on the part of the contractor shall be their responsibility.		Spray heads shall be installed 4" from sidewalks or curbed roadways and 12" from uncurbed roadways and building foundations. Rotors shall be installed 4" from sidewalks or curbed roadways, 12" from building foundations, and 36" from uncurbed roadways.		MINIMUM RECOMMENDED IRRIGATION MAINTENANCE PROCEDURES 1. Every irrigation zone should be checked monthly and written reports generated describing the date(s) each zone was inspected, problems identified, date problems repaired, and a list of materials used in the repair. At minimum, these inspections should include the following tasks: A. Turn on each zone from the controller to verify automatic operation. B. Check schedules to ensure they are appropriate for the season, plant and soil type, and irrigation method. Consult an I.A. certified auditor for methods used in determining proper irrigation scheduling requirements. C. Check remote control valves to ensure proper operation. D. Check setting on pressure regulator to verify proper setting, if present. E. Check flow control and adjust as needed; ensure valve closure within 10-15 seconds after deactivation by controller. F. Check for leaks - mainline, lateral lines, valves, heads, etc. G. Check all heads as follows: 1. Proper set height (top of sprinkler is 1" below mow height) 2. Verify head pop-up height - 6" in turf, 12" in ground cover, and pop-up on riser in shrub beds. 3. Check wiper seal for leaks - if leaking, clean head and re-inspect. If still leaking, replace head with the appropriate head with pressure regulator and built-in check valve. 4. All nozzles checked for proper pattern, clogging, leaks, correct make & model, etc. - replace as needed 5. Check for proper alignment - perfectly vertical; coverage area is correct; minimize over spray onto hardscapes. 6. Riser height raised/lowered to accommodate plant growth patterns and ensure proper coverage. 7. verify the pop-up riser retracts after operation. If not, repair/replace as needed. 2. Check controller/C.C.U. grounds for resistance (10 ohms or less) once per year. Submit written reports. 3. Check rain shut-off device monthly to ensure it functions properly. 4. Inspect all filters monthly and clean/repair/replace as needed. 5. Inspect backflow devices by utilizing a properly licensed backflow inspector. This should be done annually, at minimum. 6. Inspect all valve boxes to ensure they are in good condition, lids are in place and locked. 7. Check pump stations for proper operation, pressures, filtration, settings, etc. - refer to pump station operations manual. 8. Check and clean intake screens on all suction lines quarterly, at minimum. Clean and/or repair, as needed. 9. Winterize, if applicable, as weather in your area dictates. Follow manufacturer recommendations and blow out all lines and equipment using compressed air. Perform seasonal startup of system as per manufacturer recommendations. 10. Conduct additional inspections, maintenance tasks, etc. that are particular for your site.		POINT OF CONNECTION (P.O.C.) There is ONE P.O.C. (s) #1-P.O.C. is a new 1" potable meter & RPZ Backflow (by others) with a 1" service line by others. The P.O.C. must be capable of delivering a minimum of 20.3 GPM at 60 PSI downstream of the water meter.		
C	Contractor to verify these minimum conditions can be met prior to ordering of materials and the beginning of installation. If the conditions can not be met, the contractor must notify the designer prior to proceeding with the work. If the contractor does not do so, the contractor proceeds at their own risk and becomes responsible for any future work required to make the system perform as required.		Shrub heads shall be installed on 3/4" Sch 40 PVC risers. The risers shall be set at a minimum of 18" off sidewalks, roadway curbing, building foundations, and/or any other hardscaped areas. Shrub heads shall be installed to a standard height of 4" below maintained height of plants and shall be installed a minimum of 6" within planted masses to be less visible and offer protection. Plant all shrub risers with flat black or forest green paint, unless irrigation system will utilize reuse water; in this case the risers shall be purple PVC and shall not be painted.		L=ND*P/7400 where L=Allowable leakage in gallons per hour N=Number of joints in pipe tested D=Nominal diameter of pipe (in inches) P=Average Test Pressure (in PSI)		PROJECT NO. 2025-05 DESIGNED BY TTFV DRAWN BY TTFV CHECKED BY TDC/TTFV DATE 2/18/2025 DRAWING SCALE AS SHOWN		
	THE PIPE Pipe locations shown on the plan are schematic and shall be adjusted in the field. When laying out mainlines place a maximum of 18" away from either the back of curb, front of walk, back of walk, or other hardscape to allow for ease in locating and protection from physical damage. Install all lateral pipe near edges of pavement or against buildings whenever possible to allow space for plant root balls. Always install piping inside proper property's boundary.		Sequence all valves so that the farthest valve from the P.O.C. operates first and the closest to the P.O.C. operates last. The closest valve to the P.O.C. should be the last valve in the programmed sequence.		If these parameters are exceeded, locate the problem; repair it; wait 24 hours and retry the test. This procedure must be followed until the mainline passes the test.		DRAWING TITLE IRRIGATION NOTES		
B	All pipes are to be placed in planting beds. If it is necessary to have piping under hardscapes, such as roads, walks, and patios, the pipes must be sleeved using Class 200 PVC with the sleeve diameter being twice the size of the pipe it is carrying with a minimum sleeve size of 2".		Adjust the flow control on each RCV to ensure shut off in 10 seconds after deactivation by the irrigation controller.		Lateral Lines: The lateral lines must be fully filled to operational pressure and visually checked for leaks. Any leaks detected must be repaired.		DRAWING NUMBER IR-03		
	Pipe sizes shall conform to those shown on the drawings. No substitutions of smaller pipe sizes shall be permitted, but substitutions of larger sizes may be approved. All damaged and rejected pipe shall be removed from the site at the time of said rejection.		Using an electric branding iron, brand the valve I.D. letter/number on the lid of each valve box. This brand must be 2"-3" tall and easily legible.		Operational Testing - Once the mainline and lateral lines have passed their respective tests, and the system is completely operational, a coverage test and demonstration of the system is required. The irrigation contractor must demonstrate to the owner, or higher representative, that proper coverage is obtained and the system works automatically from the controller. This demonstration requires each zone to be turned on, in the proper sequence as shown on the plans, from the controller. Each zone will be inspected for proper coverage and function. The determination of proper coverage and function is at the sole discretion of the owner or owner's representative.		SHEET 3 of 3		
A	Mainline shall be Pantone Purple Sch 40 solvent-weld (sized per plan) PVC with Sch 40 PVC solvent-weld fittings.		All pop-up heads and shrub risers shall be pressure compensating. All pop-up heads shall be mounted on flex-type swing joints. All rotors shall be installed with PVC tie ring swing joints unless otherwise detailed.		Pre-Construction: The contractor must submit for written approval, prior to installation, five (5) copies of the manufacturer's cut sheets/specifications for all components to be used in the irrigation system.				
	Contractor to ensure all mainline piping is properly restrained using mechanical joint fittings, restraining collars, threaded rods, thrust blocks, etc., as and where required. Contractor shall refer to pipe manufacturers recommended installation practices for further direction.		TRENCHING Excavate straight and vertical trenches with smooth, flat or sloping bottoms. Trench width and depth should be sufficient to allow for the proper vertical and horizontal separation between piping as shown in the pipe installation detail on the detail sheet.		After project completion: As a condition of final acceptance, the irrigation contractor shall provide the owner with: 1. Irrigations AS-builts - shall be provided utilizing a sub-foot Global Positioning System (GPS) to accurately locate all mainlines, sleeves, remote control valves, gate valves, independent wire runs, wire splice boxes, controllers, high voltage supply sources/conduit path, control mechanisms, sensors, wells and water source connections in Florida East State Plane, NAD 83, and CORS 98 format. The data collected shall be in POINT format and include an ID for each data point with Manufacturer, Type, Size, and Depth. All mainline and				
	PVC pipe joint compound and primer: The PVC cement shall be Weld-On 711 (grey, slow-drying, heavy duty) and the primer shall be Weld-On P70 (purple tinted, compatible with cement), or approved equals.		Protect existing landscaped areas. Remove and replant any damaged plant material upon job completion. The replacement material shall be of the same genus and species, and of the same size as the material it is replacing. The final determination as to what needs to be replaced and the acceptability of the replacement material shall be solely up to the owner or owner's representative.						
	ELECTRICAL POWER SUPPLY Electrical supply for irrigation pumps, controllers, sensors, relaysto be provided by irrigation contractor. Irrigation contractor to coordinate with local utilities for the installation of, and connection to, site available power supplies for required electrical components as set forth in the irrigation plans.		INSTALLATION Solvent Weld Pipe: Cut all pipe square and deburr. Clean pipe and fittings of foreign material; then apply a small amount of primer while ensuring that any excess is wiped off immediately. Primer should not puddle or drip from pipe or fittings. Next apply a thin coat of PVC cement, first apply a thin layer to the pipe, next a thin layer inside the fitting, and finally another very thin layer on the pipe. Insert the pipe into the fitting. Insure that the pipe is inserted to the bottom of the fitting, then turn the pipe a 1/4 turn and hold for 10 seconds. Make sure that the pipe doesn't rotate from the fitting. If the pipe isn't at the bottom of the fitting upon completion, the glue joint is unacceptable and must be discarded.						



PROJECT 351 MARION OAKS BLVD MARION COUNTY, FL
Prepared For: A&B PROPERTIES SERVICES

DESIGNED BY TTFV
DRAWN BY TTFV
CHECKED BY TDC/TTFV
DATE 2/18/2025
DRAWING SCALE AS SHOWN

PROJECT NO. 2025-05
DESIGNED BY TTFV
DRAWN BY TTFV
CHECKED BY TDC/TTFV
DATE 2/18/2025
DRAWING SCALE AS SHOWN

DRAWING TITLE IRRIGATION NOTES

DRAWING NUMBER IR-03
SHEET 3 of 3

MAINLINE AND LATERAL LOCATION, WHERE SHOWN, IS FOR GRAPHIC CLARITY PURPOSES ONLY. INSTALL AT THE BACK OF CURB, FRONT OF WALK, BACK OF WALK, OR ADJACENT TO OTHER HARDSCAPES TO FACILITATE FUTURE LOCATION AND TO PROTECT FROM DAMAGE. ENSURE MAINLINE IS INSTALLED ACCORDING FDEP GUIDELINES AND TO IRRIGATION SPECIFICATIONS AND DETAILS.



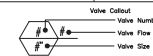
LANDSCAPE AREA CALCULATIONS:
TOTAL SITE AREA: 24,000 +/- SQ. FT.
TOTAL UPLAND LANDSCAPED AREA: 16,345 +/- SQ. FT.
IRRIGATED PLANTING AREAS: 1,257 +/- SQ. FT.
UNIRRIGATED BAHIA TURF AREA: 15,088 +/- SQ. FT.
15% MFLA REQUIRED= 24,000 X 15% = 3,600 SQ. FT.

IRRIGATED AREAS:
TOTAL IRRIGATED AREA: 1,275 +/- SQ. FT.
HIGH FLOW SPRAY AREA: 0 +/- SQ. FT.
LOW FLOW DRIP AREA: 1,275 +/- SQ. FT. (100%)

NOTE: IRRIGATION SHALL BE IN ACCORDANCE WITH MARION COUNTY CODE. THE SYSTEM IS PROPOSED AS PERMANENT.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER MODEL	QTY	ARC	PSI	GPM	RADIUS
☒	Rain Bird 1800-1400 Flood 1402	15	360	30	0.5	3'
SYMBOL	MANUFACTURER MODEL DESCRIPTION	QTY				
☒	Rain Bird XCZ-150-LCDR High Flow Control Zone Kit, for Large Commercial Drip Zones. 1-1/2" PESB-R Scrubber Globe Valve with single 1-1/2" Pressure Regulating (RPR) Quick-Check Basket Filters. Flow range 15-62gpm.	2				
	Area to Receive Dripline Jesulim TLGV-09-12 Techline Pressure Compensating Landscape Dripline with Check Valve, 9.9 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern, 17mm.	1,266 lf				
SYMBOL	MANUFACTURER MODEL DESCRIPTION	QTY				
☒	Febco 82BY 1-1/4" Reduced Pressure Backflow Preventer	1				
☒	Water Meter 1"	1				
	Irrigation Lateral Line: PVC Class 200 SDR 21	514.1 lf				
	Irrigation Mainline: PVC Schedule 40	18.8 lf				
	Pipe Sleeve: PVC Schedule 40	85.4 lf				



VALVE SCHEDULE (ALL ZONES SHALL RUN INDIVIDUALLY)

NUMBER	MODEL	SIZE	TYPE	GPM	WIRE	PSI	PSI @ POC	PRECIP
1	Rain Bird XCZ-150-LCDR	1-1/2"	Bubbler	13.87	58.4	37.0	47.2	0.96 in/h
2	Rain Bird XCZ-150-LCDR	1-1/2"	Bubbler	12.63	61.6	41.3	51.5	0.96 in/h
	Common Wire				18.6			

CRITICAL ANALYSIS

Generated: 2025-10-15 11:05

P.O.C. NUMBER: 01
Water Source Information:

FLOW AVAILABLE
Water Meter Size: 1"
Flow Available: 20.27 GPM

PRESSURE AVAILABLE
Static Pressure at POC: 60 PSI
Elevation Change: 5.00 ft
Service Line Size: 1"
Length of Service Line: 29.8
Pressure Available: 56 PSI

DESIGN ANALYSIS
Maximum Station Flow: 13.87 GPM
Flow Available at POC: 20.27 GPM
Residual Flow Available: 6.41 GPM

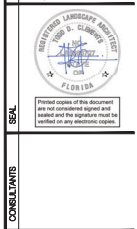
Critical Station: 2
Friction Pressure: 30 PSI
Friction Loss: 4.78 PSI
Fittings Loss: 0.48 PSI
Elevation Loss: 0 PSI
Loss through Valve: 6 PSI
Pressure Req. at Critical Station: 41.3 PSI
Loss for Fittings: 0.03 PSI
Loss for Main Line: 0.28 PSI
Loss for POC to Valve Elevation: 0 PSI
Loss for Backflow: 8.88 PSI
Loss for Water Meter: 0.96 PSI
Critical Station Pressure at POC: 51.5 PSI
Pressure Available: 56 PSI
Residual Pressure Available: 4.49 PSI

Sec. 6.9.6.- Completion inspection requirements.

- A. Irrigation installation professionals shall be accountable for the proper installation and compliance with the conditions of the irrigation permit and approved plans.
- B. Upon completion of the installation, the contractor or owner shall request an inspection by the irrigation design professional. Prior to the inspection, the irrigation installation professional shall produce a clear and legible as-built diagram which accurately represents the irrigation system was installed. The diagram shall be presented and reviewed during the final inspection. The diagram may be a marked-up copy of the approved irrigation plan and shall include at a minimum:
- (1) Locations of all mainlines and mainline valves;
 - (2) Locations of all remote control valves;
 - (3) Water demand per zone in GPM, and
 - (4) Total water demand per operating cycle.
- C. The irrigation installation professional shall also provide to the owner:
- (1) Irrigation system scheduling information;
 - (2) A copy of the irrigation controller owner's manual;
 - (3) Irrigation system maintenance schedule, which includes:
 - (a) Instructions for seasonal adjustments of controller and sensors.
 - (b) Instructions covering how and when to check for leaks.
 - (c) A schedule for checking for proper irrigation distribution coverage.
 - (4) Within 60 days after installation the irrigation controller shall be adjusted to be set in accordance with the applicable irrigation schedule set forth in this Code.
- E. Upon completion of the irrigation system installation and the acceptance of the as-built diagram and operational information, a Final Inspection and Landscape/Irrigation Release shall be signed and sealed by the irrigation design professional and submitted to the County's Landscape Architect.

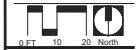
THE DESIGN STUDIO, LLC ("TDS") HEREBY WARRANTS THAT THE CONCEPTS AND DESIGN HEREIN WERE CREATED BY TDS IN THESE PLANS, IDEAS, AND DESIGN ARE NOT TO BE REPRODUCED, COPIED, OR COUNTERFEIT IN ANY MANNER, WHATSOEVER, NOR ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN PERMISSION, CONSENT, AND PROCEEDING APPROPRIATELY COMPENSATION FROM TDS. ANY UNAUTHORIZED SHALL HAVE PROCEEDED OVER SCALE DIMENSIONS, CONTRACTING SHALL VERIFY AND BE RESPONSIBLE FOR VERIFYING DIMENSIONS AND CONDITIONS OF THE JOB. TDS IS NOT RESPONSIBLE FOR THE ACCURACY OF DIMENSIONS PROVIDED BY OTHERS AND INCORPORATED IN THESE DRAWINGS. TDS IS TO BE NOTIFIED IN WRITING OF ANY VIOLATION FROM APPEARING ON THESE PLANS. (C) 2024.

351 MARION OAKS BLVD
MARION COUNTY, FL
Prepared For:
A&B PROPERTIES SERVICES



ISSUED FOR:	01/04/2025 PERMIT
PROJECT NO.	2025-05
DESIGNED BY	TFW
DRAWN BY	TFW
CHECKED BY	TD/TFW
DATE	2/18/2025

DRAWING SCALE: 1"=20'



DRAWING TITLE
IRRIGATION PLAN

DRAWING NUMBER

IR-01
SHEET 1 of 3

	1	2	3	4	5	6	7	8	9
	IRRIGATION NOTES & SPECIFICATIONS		WIRING						
	Irrigation design based on the TDC Design Studio Landscape Plan dated 7/19/2021. Contractor shall refer to these plans to coordinate sprinkler and pipe locations.		Irrigation control wire shall be thermoplastic solid copper, single conductor, low voltage irrigation controller wire. Sufficient for direct burial and continuous operation at rated voltages.		Pipes must cure a minimum of 30 minutes prior to handling and placing into trenches. A longer curing time may be required; refer to the manufacturer's specifications. The pipe must cure a minimum of 24 hours prior to filling with water.		Independent runs of wire shall be located every 30' for straight runs and at every change of direction. Sleeves will be located at end points and every 20' of length. All underground items shall include depth in inch format. These POINTS once collected shall be imported into an AutoCAD DWG geo-referenced base file to be labeled accordingly. The completed AS-Built shall be a Geo-Referenced DWF file delivered to the owner on a compact disk (CD).		
F	The system has been designed to conform with the requirements of all applicable codes, laws, ordinances, rules, regulations and conventions. Should any conflict exist, the requirements of the codes shall prevail. It is the responsibility of the owner/installation contractor to ensure the entire system is installed as designed. Irrigation contractor responsible for obtaining all required permits according to federal, state and local laws.		Tape and bundle control wires every 10' and run alongside the mainline. At all turns in direction make a 2" coil of wire. At all valve boxes coil wire around a 3/4" piece of PVC pipe to make a coil using 30 linear inches of wire. Make electrical connections with 3MDEBYT connectors.		Gasketed Pipe: With pipe in the trench, cut pipe square, deburr, and place beveled edge on male portion of pipe, if not using a piece with a factory bevel. Clean pipe and fittings of foreign material; then apply a small amount of pipe grease to the rubber gasket on the female end. Fully insert the male end of the pipe into the bell end of adjacent pipe until the bevel is fully seated into the bell. Restrain pipe as required.		2. Controller charts - Upon completion of "as-built" prepare controller charts; one per controller. Indicate on each chart the area controlled by a remote control valve (using a different color for each zone). This chart shall be reduced to a size that will fit inside of the controller door. The reduction shall be geometrically scaled to inside two 2mil pieces of clear plastic.		
	The scope of work is shown on the plans, notes and details. The Irrigation Contractor shall be certified as a CERTIFIED IRRIGATION CONTRACTOR by the Irrigation Association. The certification shall be current and in good standing.		Number all wires, using an electrical box of numbers, according to the plans. Number wires in all valve boxes, junction boxes and at the controller.		BACK FILL The Back fill 6" below, 6" above, and around all piping shall be of clean sand and anything beyond that in the trench can be of native material but nothing larger than 2" in diameter.		3. Grounding Certification - Provide ground certification results for each controller and pump panel grounding grid installed. This must be on a licensed electrician letter head indicating location tested (using IR plan symbols), date, time, test method, and testing results.		
	THE WORK The work specified in this section consists of furnishing all components necessary for the installation, testing, and delivery of a complete, fully functional automatic landscape irrigation system that complies with the irrigation plans, specifications, notes, and details. This work shall include, but not be limited to, the providing of all required material (if applicable (pump(s), backflows, pipes, valves, fittings, controllers, wire, primer, glue, etc.), layout, protection to the public, excavation, assembly, installation, backfilling, compacting, repair of road surfaces, controller and low voltage leads to valves, cleanup, maintenance, guarantee and as-built plans.		Wire sized, numbered and colored as follows: #14 white for common #14 spare black common #14 individual color coded hot wire #14 spare yellow hot wire		Main line pipe depth measured to the top of pipe shall be: 24" minimum for 3/4"-2 1/2" PVC with a 30" minimum at vehicular crossings; 30" minimum for 3" & 4" PVC with a 36" minimum at vehicular crossings; 36" minimum for 6" PVC with a 36" minimum at vehicular crossings.		INSPECTIONS AND COORDINATION MEETINGS REQUIRED - Contractor is required to schedule, perform, and attend the following, and demonstrate to the owner and/or owners representative to their satisfaction, as follows:		
	All irrigated areas shall provide 100% head-to-head coverage from a fully automatic irrigation system with a rain (and freeze as appropriate) shut off device. If the rain shut off device is a rain sensor, it shall be installed to prevent activation by adjacent heads. Zones are prioritized first by public safety and then by hydraulic conditions. This sequencing will be a mandatory punch list item.		Spare wires Leaving each controller, run six spare wires in both directions (twelve spare wires total). Install as 2 common spares (4 total) and 4 hot wires (8 total). Loop these wires into each RCV along their path and terminate in the last valve box controlled by the wires respective controller. The loop into each valve box shall extend up into the valve box a minimum of 8" and be readily accessible by opening the valve box lid. These wires must be all numbered and color coded as required in these plans.		Lateral line depths measured to top of pipe shall be: 18" minimum for 3/4"-3" PVC with a 30" minimum at vehicular crossings; 24" minimum for 4" PVC and above with a 30" minimum at vehicular crossings.		1. Pre-construction meeting - Designer and contractor to review entire install process and schedule with owner/general contractor. 2. Mainline installation inspection(s) - all mainline must be inspected for proper pipe, fittings, depth of coverage, backfill, and installation method 3. Mainline pressure test - All mainline shall be pressure tested according to this design's requirements 4. Flow Meter calibration - All flow meters must be calibrated, provide certified calibration report for all flow meters. 5. USDA Soil Quality Tests for infiltration/texture 6. Coverage and operational test 7. Final inspection 8. Punch list inspection		
E	These plans have been designed to satisfy/exceed the Florida Irrigation Society Standards and Specifications for Turf and Landscape Irrigation Systems, fourth edition. All products should be installed per manufacturer's recommendation. Contractor shall verify all underground utilities 72 hours prior to commencement of work.		Controller and Pump station Control Panel grounding - Contractor to utilize 4"X8"X5/8" copper grounding plates, 5/8"X10" copper clad grounding rods, "One Strike" CAD wells at all connection points, #8 bare copper wire, and earth contact material. Install these and other required components as outlined in the detail. Contractor to verify that the earth to ground resistance does not exceed 10 ohms. Contractor shall provide a written certification, on a licensed electrical contractors letter head, showing the date of the test, controller/pump location, and test results. Each controller/pump shall be so grounded and tested. Each component must have its own separate grounding grid, unless they are sitting side by side, in which case up to two controllers can share a common grounding grid.		Contractor shall backfill all piping, both mainline and laterals, prior to performing any pressure tests. The pipe shall be backfilled with the exception of 2" on each side of every joint (bell fittings, 90's, tees, 45's, etc.). These joints shall not be backfilled until all piping has satisfactorily passed its appropriate pressure test as outlined below.		Final acceptance of the irrigation system will be given after the following documents and conditions have been completed and approved. Final payment will not be released until these conditions are satisfied.		
	It is the responsibility of the irrigation contractor to familiarize themselves with all grade differences, location of walls, retaining walls, structures and utilities. Do not willfully install the sprinkler system as shown on the drawings when it is obvious in the field that unknown obstruction, grade differences or differences in the area dimensions exist that might not have been considered in the engineering. Such obstructions, or differences, should be brought to the attention of the owner's authorized representative. In the event this notification is not performed, the irrigation contractor shall assume full responsibility for any revisions necessary.		LAYOUT Lay out irrigation system mainlines and lateral lines. Make the necessary adjustments as required to take into account all site obstructions and limitations prior to excavating trenches.		FLUSHING Prior to the placement of valves, flush all mainlines for a minimum of 10 minutes or until lines are completely clean of debris, whichever is longer.		1. All above inspections are completed, documented, and approved by owner. 2. Completion and acceptance of "as-built" drawings. 3. Acceptance of required controller charts and placement inside of controllers. 4. All other submittals have been made to the satisfaction of the owner.		
D	The contractor shall repair or replace all items damaged by their work. Irrigation contractor shall coordinate their work with other contractors for the location and installation of pipe sleeves and laterals through walls, under roadways and paving, etc.		Stake all sprinkler head locations. Adjust location and make the necessary modifications to nozzle types, etc. required to ensure 100' head to head coverage. Refer to the Edge of Pavement Detail on the Irrigation Detail Sheet.		Soil: At a minimum of 2 locations on the site, soil tests for Infiltration and texture shall be performed according to the USDA Soil Quality Test Kit Guide. The tests shall be documented in a USDA Soil Worksheet. (All of the above is available at http://soils.usda.gov/soiltestkit/soiltest_kit.html) The completed worksheet shall be submitted to the owners representative for review/approval. Do not proceed without written direction from the owner/owner's representative.		MINIMUM RECOMMENDED IRRIGATION MAINTENANCE PROCEDURES 1. Every irrigation zone should be checked monthly and written reports generated describing the date(s) each zone was inspected, problems identified, date problems repaired, and a list of materials used in the repair. At minimum, these inspections should include the following tasks: A. Turn on each zone from the controller to verify automatic operation. B. Check schedules to ensure they are appropriate for the season, plant and soil type, and irrigation method. Consult an I.A. certified auditor for methods used in determining proper irrigation scheduling requirements. C. Check remote control valves to ensure proper operation. D. Check setting on pressure regulator to verify proper setting, if present. E. Check flow control and adjust as needed; ensure valve closure within 10-15 seconds after deactivation by controller. F. Check for leaks - mainline, lateral lines, valves, heads, etc. G. Check all heads as follows: 1. Proper set height (top of sprinkler is 1" below mow height) 2. Verify head pop-up height - 6" in turf, 12" in ground cover, and pop-up on riser in shrub beds. 3. Check wiper seal for leaks - if leaking, clean head and re-inspect. If still leaking, replace head with the appropriate head with pressure regulator and built-in check valve. 4. All nozzles checked for proper pattern, clogging, leaks, correct make & model, etc. - replace as needed 5. Check for proper alignment - perfectly vertical; coverage area is correct; minimize over spray onto hardscapes. 6. Riser height raised/lowered to accommodate plant growth patterns and ensure proper coverage. 7. verify the pop-up riser retracts after operation. If not, repair/replace as needed. 2. Check controller/C.C.U. grounds for resistance (10 ohms or less) once per year. Submit written reports. 3. Check rain shut-off device monthly to ensure it functions properly. 4. Inspect all filters monthly and clean/repair/replace as needed. 5. Inspect backflow devices by utilizing a properly licensed backflow inspector. This should be done annually, at minimum. 6. Inspect all valve boxes to ensure they are in good condition, lids are in place and locked. 7. Check pump stations for proper operation, pressures, filtration, settings, etc. - refer to pump station operations manual. 8. Check and clean intake screens on all suction lines quarterly, at minimum. Clean and/or repair, as needed. 9. Winterize, if applicable, as weather in your area dictates. Follow manufacturer recommendations and blow out all lines and equipment using compressed air. Perform seasonal startup of system as per manufacturer recommendations. 10. Conduct additional inspections, maintenance tasks, etc. that are particular for your site.		
	POINT OF CONNECTION (P.O.C.) There is ONE P.O.C. (s)		Spray heads shall be installed 4" from sidewalks or curbed roadways and 12" from uncurbed roadways and building foundations. Rotors shall be installed 4" from sidewalks or curbed roadways, 12" from building foundations, and 36" from uncurbed roadways.		Mainline: Remove all remote control valves and cap using a threaded cap on SCH 80 nipple. Fill mainline with water and pressurize the system to 125 PSI. Monitor the system pressure at two gauge locations; the gauge locations must be at opposite ends of the mainline. With the same respective pressures, monitor the gauges for two hours. There can be no loss in pressure at either gauge for solvent-welded pipe. For HDPE pipe, see HDPE notes. For gasketed pipe, testing requires measurement of the water pumped into the mainline system, using a hydrostatic pump, to maintain 125 PSI - this water volume shall be no more than the result of the following formula: $L=(ND \cdot P)/7400$ where L=Allowable leakage in gallons per hour N=Number of joints in pipe tested D=Nominal diameter of pipe (in inches) P=Average Test Pressure (in PSI)		SEAL The sealant of this document is not considered signed and sealed until the sealant is verified on any electronic copies.		
	#1-P.O.C. is a new 1" potable meter & RPZ Backflow (by others) with a 1" service line by others. The P.O.C. must be capable of delivering a minimum of 20.3 GPM at 60 PSI downstream of the water meter.		Shrub heads shall be installed on 3/4" Sch 40 PVC risers. The risers shall be set at a minimum of 18" off sidewalks, roadway curbing, building foundations, and/or any other hardscaped areas. Shrub heads shall be installed to a standard height of 4" below maintained height of plants and shall be installed a minimum of 6" within planted masses to be less visible and offer protection. Paint all shrub risers with flat black or forest green paint, unless irrigation system will utilize reuse water; in this case the risers shall be purple PVC and shall not be painted.		Sequence all valves so that the farthest valve from the P.O.C. operates first and the closest to the P.O.C. operates last. The closest valve to the P.O.C. should be the last valve in the programmed sequence. Adjust the flow control on each RCV to ensure shut off in 10 seconds after deactivation by the irrigation controller. Using an electric branding iron, brand the valve I.D. letter/number on the lid of each valve box. This brand must be 2"-3" tall and easily legible.		CONSULTANTS PROJECT NO. 1011424025 PERMIT DESIGNED BY TFW DRAWN BY TFW CHECKED BY TDC/TFW DATE 2/18/2025 DRAWING SCALE AS SHOWN		
	THE PIPE Pipe locations shown on the plan are schematic and shall be adjusted in the field. When laying out mainlines place a maximum of 18" away from either the back of curb, front of walk, back of walk, or other hardscape to allow for ease in locating and protection from physical damage. Install all lateral pipe near edges of pavement or against buildings whenever possible to allow space for plant root balls. Always install piping inside proper property's boundary.		VALVES Locate valves prior to excavation. Ensure that their location provides for easy access and that there is no interference with physical structures, plants, trees, poles, etc. Valve boxes must be placed a minimum of 12" and a maximum of 15" from the edge of pavement, curbs, etc. and the top of the box must be 2" above finish grade. No valve boxes shall be installed in turf areas without approval by the irrigation designer - only in shrub beds. Never install in sport field areas.		TRENCHING Excavate straight and vertical trenches with smooth, flat or sloping bottoms. Trench width and depth should be sufficient to allow for the proper vertical and horizontal separation between piping as shown in the pipe installation detail on the detail sheet.		PROJECT TITLE IRRIGATION NOTES		
	All pipes are to be placed in planting beds. If it is necessary to have piping under hardscapes, such as roads, walks, and patios, the pipes must be sleeved using Class 200 PVC with the sleeve diameter being twice the size of the pipe it is carrying with a minimum sleeve size of 2".		EQUIPMENT All pop-up heads and shrub risers shall be pressure compensating. All pop-up heads shall be mounted on flex-type swing joints. All rotors shall be installed with PVC tie ring swing joints unless otherwise detailed.		SUBMITTALS Pre-Construction: The contractor must submit for written approval, prior to installation, five (5) copies of the manufacturer's cut sheets/specifications for all components to be used in the irrigation system. After project completion: As a condition of final acceptance, the irrigation contractor shall provide the owner with: 1. Irrigations AS-builts - shall be provided utilizing a sub-foot Global Positioning System (GPS) to accurately locate all mainlines, sleeves, remote control valves, gate valves, independent wire runs, wire splice boxes, controllers, high voltage supply sources/conduit path, control mechanisms, sensors, wells and water source connections in Florida East State Plane, NAD 83, and CORS 98 format. The data collected shall be in POINT format and include an ID for each data point with Manufacturer, Type, Size, and Depth. All mainline and		DRAWING NUMBER IR-03		
	Pipe sizes shall conform to those shown on the drawings. No substitutions of smaller pipe sizes shall be permitted, but substitutions of larger sizes may be approved. All damaged and rejected pipe shall be removed from the site at the time of said rejection.		TRENCHING Excavate straight and vertical trenches with smooth, flat or sloping bottoms. Trench width and depth should be sufficient to allow for the proper vertical and horizontal separation between piping as shown in the pipe installation detail on the detail sheet.		DRAWING SCALE AS SHOWN		SHEET 3 of 3		
	Mainline shall be Pantone Purple Sch 40 solvent-weld (sized per plan) PVC with Sch 40 PVC solvent-weld fittings.		TRENCHING Excavate straight and vertical trenches with smooth, flat or sloping bottoms. Trench width and depth should be sufficient to allow for the proper vertical and horizontal separation between piping as shown in the pipe installation detail on the detail sheet.						
	Contractor to ensure all mainline piping is properly restrained using mechanical joint fittings, restraining collars, threaded rods, thrust blocks, etc., as and where required. Contractor shall refer to pipe manufacturers recommended installation practices for further direction.		TRENCHING Excavate straight and vertical trenches with smooth, flat or sloping bottoms. Trench width and depth should be sufficient to allow for the proper vertical and horizontal separation between piping as shown in the pipe installation detail on the detail sheet.						
	PVC pipe joint compound and primer: The PVC cement shall be Weld-On 711 (grey, slow-drying, heavy duty) and the primer shall be Weld-On P70 (purple tinted, compatible with cement), or approved equals.		TRENCHING Excavate straight and vertical trenches with smooth, flat or sloping bottoms. Trench width and depth should be sufficient to allow for the proper vertical and horizontal separation between piping as shown in the pipe installation detail on the detail sheet.						
	ELECTRICAL POWER SUPPLY Electrical supply for irrigation pumps, controllers, sensors, relaysto be provided by irrigation contractor. Irrigator to coordinate with local utilities for the installation of, and connection to, site available power supplies for required electrical components as set forth in the irrigation plans.		TRENCHING Excavate straight and vertical trenches with smooth, flat or sloping bottoms. Trench width and depth should be sufficient to allow for the proper vertical and horizontal separation between piping as shown in the pipe installation detail on the detail sheet.						
A	All electrical work is to comply with the National Electrical Code and any, and all, other applicable electrical codes, laws and regulations. A licensed electrician shall perform all electrical hook-ups. Power for each controller/CCU shall be a dedicated 120 volt, 20 amp circuit unless otherwise specified in the plans. Power for each pump to be according to pump specifications indicated in these plans.		TRENCHING Excavate straight and vertical trenches with smooth, flat or sloping bottoms. Trench width and depth should be sufficient to allow for the proper vertical and horizontal separation between piping as shown in the pipe installation detail on the detail sheet.						

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