



## SUBMITTAL SUMMARY REPORT ImprovePln-000674-2026

<b>PLAN NAME:</b> Heatherwood	<b>LOCATION:</b> 8490 JUNIPER RD OCALA,
<b>APPLICATION DATE:</b> 04/23/2026	<b>PARCEL:</b> 36640-004-00
<b>DESCRIPTION:</b> Heatherwood	

CONTACTS	NAME	COMPANY
Applicant	Tillman Associates	Tillman & Associates Engineering, LLC
Applicant	Tillman Associates	Tillman & Associates Engineering, LLC
Engineer of Record	Jeffrey McPherson	Tillman & Associates Engineering, LLC

SUBMITTAL	STARTED	DUE	COMPLETE	STATUS
OCE: Plan Review (DR) v.1	04/24/2026	05/08/2026	05/18/2026	Requires Re-submit
OCE: Plan Review (DR) v.2				Not Received

### SUBMITTAL DETAILS

#### OCE: Plan Review (DR) v.1

ITEM REVIEW NAME (DEPARTMENT)	ASSIGNED TO	DUE	COMPLETE	STATUS
911 Management (DR) (911 Management)	Kristie Wright	05/08/2026	05/05/2026	Requires Re-submit

*Corrections* 2.12.28 - Road identification (**Not Resolved**) - **Corrective Action:** Please be advised that road names have not been issued yet due to the CAD missing the street centerline and lot and tract info. Please resubmit CAD.

Sheets 04.01, 05.01, 06.02, 07.03, 08.01 – Juniper Rd is incorrectly labeled as NW Juniper Rd., Road name of Juniper Trail Loop needs to be removed – it is a bus loop, Sheets 09.03, 10.01, 17.01, SL.01, RN.01– Juniper Rd is incorrectly labeled as NW Juniper Rd. Sheet 19.02- Juniper Rd is incorrectly labeled as Juniper Loop. - 2.12.28 - Road identification: All roads shall be identified by quadrant number as assigned by Marion County 911 Management.

Environmental Health (Plans) (Environmental Health)	Evan Searcy	05/08/2026	05/18/2026	Approved
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Fire Marshal (Plans) (Fire)	Jonathan Kenning	05/08/2026	04/24/2026	Approved
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Growth Services Planning & Zoning (DR) (GS Planning and Zoning)	Sarah Wells	05/08/2026	05/13/2026	Requires Re-submit
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*Corrections* 2.12.16/6.5 - EALS or Exemption provided? (**Not Resolved**) - **Corrective Action:** Provide Environmental Assessment of Listed Species (EALS) or submit an Exemption Request per LDC Sec. 6.5. - 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* 2.1.3 - Order of plan approval and consistency (**Not Resolved**) - **Corrective Action:** Preliminary plat shall be approved prior to Improvement Plan review. This item will remain as NO until pre-plat is approved. - 2.1.3 - Order of plan approval and consistency: The plans shall be consistent with approved Pre-Plat. Plans listed below may be reviewed concurrently, but must be approved in the order listed below, when applicable and when the proper land use and zoning are in place: A.Master Plan. B.Preliminary Plat. C.Improvement Plan. D.Final Plat. E.Major Site Plan. However, a Major Site Plan can be substituted for the Improvement Plan and can be approved before approval of the Final Plat in cases when the infrastructure improvements supporting the plat are proposed as part of the Major Site Plan application.

*Corrections* 2.12.4/6.11.6 - Construction access (**Not Resolved**) - **Corrective Action:** Proposed construction access and route is missing/incorrect/not compliant to LDC/approved XXX. Please show on the plan. - 2.12.4/6.11.6 - Construction access: Show proposed construction access and route on plan, per Sec. 6.11.6. - Construction access/route,.

*Corrections* 2.12/2.12.21 - Open space and natural areas (**Not Resolved**) - **Corrective Action:** Open space and natural area information is not compliant to LDC requirement. Please provide correct information on the list and on the plan. Provide list of open space and natural areas in square footage, acreage, and percentage. - 2.12/2.12.21 - Open space and natural areas: Provide list of open space and natural areas in square footage, acreage, and percentage. Including existing and proposed natural open space, improved open space, open water, wetland, and preserved natural areas. Also show them on the plan.

*Corrections* 2.12 & Article 5 - Overlay zones (**Not Resolved**) - **Corrective Action:** Overlay zone information is incorrect. Please provide correct statement on the cover sheet. The parcel is located within the Primary Springs Protection Overlay Zone. - 2.12 & 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.

# SUBMITTAL SUMMARY REPORT (ImprovePin-000674-2026)

ITEM REVIEW NAME (DEPARTMENT)	ASSIGNED TO	DUE	COMPLETE	STATUS
Growth Services Planning & Zoning (DR) (GS Planning and Zoning)	Sarah Wells	05/08/2026	05/13/2026	Requires Re-submit
<i>Corrections</i>	6.5 & 6.6 - Habitat Preservation/Mitigation ( <b>Not Resolved</b> ) - <b>Corrective Action:</b> If any listed species are observed/potentially located on site, coordinate with FWC and get required permits. Habitat preservation/mitigation plan shall be submitted to County for records at later stage. - 6.5 & 6.6 - Habitat Preservation/Mitigation: Refer to LDC Sec. 6.6 for requirements and design standards if the site contains open water, wetland, listed species, native habitat vegetation, and/or natural open space. When a proposed development or land clearing site is found to include listed species, the application shall identify species and habitat protection as on-site or off-site. The selected option shall be a condition of approval and shall be completed at time of final inspection.			
Landscape (Plans) (Parks and Recreation)	Susan Heyen	05/08/2026	05/07/2026	Requires Re-submit
<i>Comments</i>	1. Landscape and irrigation plans shall be signed and sealed at submittal 2. see additional markups on plans			
OCE Design (Plans) (Office of the County Engineer)	Gerald Koch	05/08/2026	05/05/2026	Approved
OCE Property Management (Plans) (Office of the County Engineer)		05/08/2026	04/29/2026	Informational
<i>Comments</i>	<p>IF APPLICABLE:</p> <p>Sec. 2.18.1.I - Show connections to other phases.</p> <p>Sec.2.19.2.H – Legal Documents</p> <p>Legal documents such as Declaration of Covenants and Restrictions, By-Laws, Articles of Incorporation, ordinances, resolutions, etc.</p> <p>Sec. 6.3.1.B.1 – Required Right of Way Dedication (select as appropriate)</p> <p>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."</p> <p>Sec. 6.3.1.B.2 – Required Right of Way Dedication</p> <p>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."</p> <p>Sec. 6.3.1.D.3 - Cross Access Easements</p> <p>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]."</p> <p>Sec. 6.3.1.C.1 - Utility Easements (select as appropriate)</p> <p>"[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."</p> <p>Sec. 6.3.1.C.2 – Utility Easements</p> <p>"[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."</p> <p>Sec.6.3.1.D(c)(1)(2)(3) - Stormwater easements and facilities, select as appropriate:</p> <p>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."</p> <p>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."</p> <p>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."</p> <p>Sec.6.3.1.D(f) –</p> <p>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]."</p> <p>- DR 4/29/26</p>			
OCE Stormwater (Permits & Plans) (Office of the County Engineer)	Alexander Turnipseed	05/08/2026	04/29/2026	Requires Re-submit
<i>Corrections</i>	6.10 - Karst Topography and High Recharge Areas ( <b>Not Resolved</b> ) - Please provide a signed and sealed karst analysis			
<i>Corrections</i>	6.13.7 - Geotechnical Criteria ( <b>Not Resolved</b> ) - DRA-1 requires a total of 9 borings based on the size. 7 borings have been provided			
<i>Corrections</i>	Final signed and sealed hard copy signature page ( <b>Not Resolved</b> ) - 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>	6.13.2.B(8) - Calculation & Plan Consistency ( <b>Not Resolved</b> ) - This item will be reviewed upon resubmittal			
<i>Corrections</i>	2.12.8 - Topographical Contours ( <b>Not Resolved</b> ) - Please provide a survey that is no older than 12 months. Check with Survey to see if they would support a waiver			
<i>Corrections</i>	6.13.4 - Stormwater Quantity Criteria ( <b>Not Resolved</b> ) - See comment under "6.13.7 □ Geotechnical Criteria"			
<i>Corrections</i>	6.13.12 - Operation and Maintenance ( <b>Not Resolved</b> ) - 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>	6.13.2.B(6) - Freeboard ( <b>Not Resolved</b> ) - See comment under "6.13.7 □ Geotechnical Criteria"			
<i>Corrections</i>	6.13.4.C - Discharge Conditions ( <b>Not Resolved</b> ) - See comment under "6.13.7 □ Geotechnical Criteria"			

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ITEM REVIEW NAME (DEPARTMENT)	ASSIGNED TO	DUE	COMPLETE	STATUS
OCE Stormwater (Permits & Plans) (Office of the County Engineer)	Alexander Turnipseed	05/08/2026	04/29/2026	Requires Re-submit
<i>Corrections</i>	6.13.2.B(4) - Hydrologic Analysis ( <b>Not Resolved</b> ) - See comment under "6.13.7 <input type="checkbox"/> Geotechnical Criteria"			
<i>Corrections</i>	6.13.4.D - Recovery Analysis ( <b>Not Resolved</b> ) - See comment under "6.13.7 <input type="checkbox"/> Geotechnical Criteria"			
<i>Corrections</i>	6.13.2.C - Geotechnical Investigation Report ( <b>Not Resolved</b> ) - Please provide			
<i>Corrections</i>	6.13.6 - Stormwater Quality Criteria ( <b>Not Resolved</b> ) - See comment under "6.13.7 <input type="checkbox"/> Geotechnical Criteria"			
<i>Corrections</i>	Additional Stormwater comments ( <b>Not Resolved</b> ) - (1) Info: Please provide a copy of the NPDES permit or NOI as well as the district permit prior to construction. (2) 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.			
OCE Survey (Plans) (Office of the County Engineer)	Theresa Small	05/08/2026	05/06/2026	Requires Re-submit
<i>Corrections</i>	6.4.7. Construction Plans - Survey Requirements ( <b>Not Resolved</b> ) - 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. Please provide additional bench mark and horizontal control point to survey.			
<i>Corrections</i>	Additional Survey Comments ( <b>Not Resolved</b> ) - Sec. 2.12.8. - Current boundary and topographic survey. o 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. o (Ord. No. 13-20, § 2, 7-11-2013)			
OCE Traffic (Permits & Plans) (Office of the County Engineer)	Chris Zeigler	05/08/2026	05/11/2026	Requires Re-submit
<i>Corrections</i>	6.11.9.C - Pavement marking ( <b>Not Resolved</b> ) - <b>Corrective Action:</b> Provide high visibility crosswalks at all pedestrian crossings in the public right-of-way. - 6.11.9.C - Pavement marking: Provide pavement markings as required in Section 6.11.9.C.			
<i>Corrections</i>	6.12.9 - Subdivision roads ( <b>Not Resolved</b> ) - <b>Corrective Action:</b> 1. All dead end streets are required to have cul-de-sacs. Staff supports a waiver to allow a paved hammerhead at the ends of all dead ends that are no longer than 120 feet. 2. Several curves do not meet the 30mph design speed requirement. Staff supports a waiver subject to providing the appropriate curve signage per the MUTCD. - 6.12.9 - Subdivision roads : Subdivision roads must meet the design requirements in Section 6.12.9.			
<i>Corrections</i>	6.11.6 - Construction route ( <b>Not Resolved</b> ) - <b>Corrective Action:</b> Provide a construction route from the construction entrance to Baseline Road using chestnut road. None of the adjacent local subdivision streets shall be used for construction vehicle traffic. - 6.11.6 - Construction route: Show the construction route.			
<i>Corrections</i>	6.12.8 - Soil data ( <b>Not Resolved</b> ) - <b>Corrective Action:</b> Provide roadway soil borings. - 6.12.8 - Soil data: Provide soil borings and a soil boring location map meeting the requirement of Section 6.12.8.			
<i>Corrections</i>	Additional Traffic Comments ( <b>Not Resolved</b> ) - The force main crossing on the west side of Juniper Road at Juniper Trail Loop needs to be directional drilled.			
<i>Corrections</i>	6.12.12 - Sidewalks ( <b>Not Resolved</b> ) - <b>Corrective Action:</b> Relocate the sidewalk to the east side of the driveway connection to Juniper Trail Loop. Connect the sidewalk to the existing sidewalk that goes onto the school property on the south side of Juniper Trail Loop. - 6.12.12 - Sidewalks: Show sidewalk on the plans as required in section 6.12.12.			
<i>Corrections</i>	6.11.9.B - Traffic signs ( <b>Not Resolved</b> ) - <b>Corrective Action:</b> Relocate the northern school zone sign and end school zone sign to the southern property line for DRA #3. Coordinate relocation of school zone sign and beacon with Bruce Youman at the Office of the County Engineer 352-671-8686. - 6.11.9.B - Traffic signs: Provide traffic signs as required in Section 6.11.9.B.			
Utilities (OCE Plans) (Utilities)	Heather Proctor	05/08/2026	05/05/2026	Approved
<i>Comments</i>	Project is within the City of Belleview Utility service area. The City of Belleview will be providing public water and sewer via off-site connections and extensions. A letter from the City of Belleview stating they have availability and capacity to serve this project has been received.			

**REVIEW SESSION FILES:**  
 \_Boundary Topo Survey.pdf  
 \_Combined Plans.pdf  
 \_Supplimental Files.pdf  
 Heatherwood Utility Report SS.pdf  
 Master Drainage Report SS.pdf

REVIEWER	MARKUP	DATE/TIME	FILE NAME	PG #
Kristie W	Should be Juniper Rd.	04/29/2026 2:14	PM_Combined Plans.pdf	4
Kristie W	Please remove road name. This is a bus loop.	04/29/2026 2:14	PM_Combined Plans.pdf	4
Kristie W	Should be Juniper Rd.	04/29/2026 2:15	PM_Combined Plans.pdf	5
Kristie W	Should be Juniper Rd.	04/29/2026 2:17	PM_Combined Plans.pdf	7
Kristie W	Should be Juniper Rd.	04/29/2026 2:17	PM_Combined Plans.pdf	10
Kristie W	Should be Juniper Rd.	04/29/2026 2:18	PM_Combined Plans.pdf	10
Kristie W	Please remove this road name. It is a bus loop.	04/29/2026 2:19	PM_Combined Plans.pdf	10
Kristie W	Should be Juniper Rd.	04/29/2026 2:20	PM_Combined Plans.pdf	11
Kristie W	Please remove road name. This is a bus loop.	04/29/2026 2:20	PM_Combined Plans.pdf	11
Kristie W	Should be Juniper Rd.	04/29/2026 2:22	PM_Combined Plans.pdf	14
Kristie W	Should be Juniper Rd.	04/29/2026 2:23	PM_Combined Plans.pdf	16
Kristie W	Should be Juniper Rd.	04/29/2026 2:27	PM_Combined Plans.pdf	35
Kristie W	Should be Juniper Rd.	04/29/2026 2:28	PM_Combined Plans.pdf	42
Kristie W	Should be Juniper Rd.	04/29/2026 2:29	PM_Combined Plans.pdf	43
Kristie W	Road names have not been issued due to the fact the CAD file that was submitted does not have street centerline or lot/tract data. Please resubmit CAD.	04/29/2026 2:29	PM_Combined Plans.pdf	42
Kristie W	Please remove road name. This is a bus loop.	05/05/2026 11:24	AM_Combined Plans.pdf	7

# SUBMITTAL SUMMARY REPORT (ImprovePin-000674-2026)

**eREVIEW SESSION FILES:**      \_Boundary Topo Survey.pdf  
   \_Combined Plans.pdf  
   \_Supplimental Files.pdf  
   Heatherwood Utility Report SS.pdf  
   Master Drainage Report SS.pdf

REVIEWER	MARKUP	DATE/TIME	FILE NAME	PG #
Kristie W	Should be Juniper Rd.	05/05/2026 11:25	AM_Combined Plans.pdf	38
Theresa S.	Sec. 2.12.8. - Current boundary and topographic survey.oCurrent 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.o(Ord. No. 13-20, § 2, 7-11-2013)	05/06/2026 8:42	AM_Boundary Topo Survey.pdf	1
Susan Heyen	Enhanced buffer (lots 19-30) is 2 shade trees/ 3 understory per 100 LF, appears understory is being used due to conflict with OHE. Sheet 4.01 shows a shade tree area, please revise to show the correct number of shade trees in the shade tree area	05/07/2026 9:55	AM_Combined Plans.pdf	48
Susan Heyen	Sheet 04.01 shall match L04.02 landscape plan	05/07/2026 10:10	AM_Combined Plans.pdf	46
Susan Heyen	DRA shall have 4 shade trees with 200sf of shrubs/groundcovers per 100 ft - show this is met with calculations	05/07/2026 10:15	AM_Combined Plans.pdf	47
Susan Heyen	Show how tree Critical Root Zones will be protected with construction of DRAShow Tree protection on landscape plans also	05/07/2026 10:46	AM_Combined Plans.pdf	40
Susan Heyen	Shrubs shall be 18" ht at installation	05/07/2026 10:52	AM_Combined Plans.pdf	46
Susan Heyen	Plan shows understory, not shade tree. Plan needs to match sheet 04.01, which shows a shade tree area	05/07/2026 10:53	AM_Combined Plans.pdf	46
Susan Heyen	Provide HOA documents showing Florida Friendly Landscape principles being followed LDC 6.8.5.D	05/07/2026 10:56	AM_Combined Plans.pdf	46
Chris Zeigler	Provide Crosswalk within public right-of-way	05/11/2026 4:57	PM_Combined Plans.pdf	4
Chris Zeigler	Connect to existing sidewalk that goes onto school board property.	05/11/2026 4:58	PM_Combined Plans.pdf	4
Chris Zeigler	Relocate sidewalk to provide crossing on east side as shown	05/11/2026 4:59	PM_Combined Plans.pdf	4
Chris Zeigler	Recommend moving sidewalk to north side of road.	05/11/2026 5:00	PM_Combined Plans.pdf	4
Chris Zeigler	Relocate School Zone sign and end school zone sign to this location. Coordinate with Bruce Youman at the Marion County Office of the County Engineer on the school zone sign and beacon relocation.	05/11/2026 5:25	PM_Combined Plans.pdf	11
Chris Zeigler	(Relocate)	05/11/2026 5:27	PM_Combined Plans.pdf	11
Chris Zeigler	Use high visibility crosswalk markings in County right-of-way.	05/11/2026 5:28	PM_Combined Plans.pdf	11
Chris Zeigler	This needs to be directional drilled.	05/11/2026 5:51	PM_Combined Plans.pdf	37



**Marion County  
Board of County Commissioners**

Office of the County Engineer

412 SE 25th Ave.  
Ocala, FL 34471  
Phone: 352-671-8686  
Fax: 352-671-8687

Heatherwood Improvement Plan  
#ImprovePIIn-000674-2026

**Development Review Committee Waiver Request Form**

Per Section 2.10.1. of the Land Development Code: The Development Review Committee (DRC) may waive certain code requirements when not applicable to the proposed type of development or where alternative standards may promote flexibility, economical flexibility, and environmental soundness in layout and design.

Waiver requests and required documentation may be submitted through Civic Access. Waiver requests will not be processed without required information and applicable fees paid. Please be specific with all entries below.

Section Number & Title of Code:

2.12.8 - Current boundary and topographic survey

Section Details from Code:

CODE states 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.

Reason/Justification for Request:

Request a waiver to allow for the use of the current boundary and topographic survey which is more than 12 months old will be submitted to DRC for consideration.

Section Number & Title of Code:

6.12.9- Subdivision roads and related infrastructure

Section Details from Code:

CODE states A. In residential subdivisions, the road system shall be designed to serve the needs of the neighborhood and to discourage use by truck traffic and through traffic and still provide access to adjacent neighborhoods for emergency services. The use of neighborhood traffic calming devices such as traffic circles, cul-de-sac, etc. are encouraged in residential areas. B. Major local roads shall be identified on plans. C. All roads and related infrastructure within the proposed subdivision shall be designed, constructed, and paved to County specifications provided herein. D. The developer shall be required to design, construct, and pave to County specifications, one road from the subdivision to the nearest paved, public roadway with legal access, if such a road does not already exist. E. Roads and stormwater facilities within a subdivision shall be dedicated as either public or private. F. Public dedications shall be pre-approved by the Development Review Committee. If a MSBU is established as the maintenance and operation entity, roads and stormwater facilities can be platted as public. G. Cul-de-sac diameters to the right-of-way line shall not be less than 120 feet with a pavement radius of 40 feet for residential subdivisions and shall not be less than 120 feet to the right-of-way line with a pavement radius of 45 feet for commercial or industrial subdivisions. Refer to details in Section 7.3.1. A grassed island no greater than 50 feet in diameter may be constructed in the center of a cul-de-sac. H. Dead end roads shall not exceed 1,500 feet and shall have a cul-de-sac at the terminal end. Refer to details in Section 7.3.1. Dead end roads intended to provide future access to adjacent unplatted areas may be permitted without a cul-de-sac provided that no lots front thereon, the length does not exceed 1,500 feet, and appropriate temporary end-of-road markers are provided. I. The total perimeter of a block shall not exceed 4,500 feet. Larger block perimeters will be permitted for blocks surrounding or adjacent to natural or artificial features such as lakes, rivers, and golf courses where limiting block lengths are not feasible and impractical. J. Corner radii at the intersection of the two rights-of-way shall be not less than 25 feet. Minimum pavement radii shall be 40 feet for residential subdivisions and 50 feet for commercial or industrial subdivisions. K. Centerline radii shall be designed to accommodate the minimum design speed of 30 mph for subdivision local and minor local roads, 40 mph for major local and collector roads, and 45 mph for arterial roads in accordance with FDOT and AASHTO Standards. L. Evacuation routes for developments shall be indicated on the improvement plans.

Reason/Justification for Request:

Request a waiver to allow for the proposed design and posted speed will be submitted for consideration. Curve warning signage per FDOT Greenbook criteria is proposed as shown on Sheet 8.01

Section Number & Title of Code:

6.12.9 (H) - Subdivision roads and related infrastructure

Section Details from Code:

CODE states (H) Dead end roads shall not exceed 1,500 feet and shall have a cul-de-sac at the terminal end. Refer to details in Section 7.3.1. Dead end roads intended to provide future access to adjacent unplatted areas may be permitted without a cul-de-sac provided that no lots front thereon, the length does not exceed 1,500 feet, and appropriate temporary end-of-road markers are provided.

Reason/Justification for Request:

Requests a waiver to allow for the use of a hammerhead style intersection on dead end roads will be submitted to DRC for consideration. The proposed dead end segments will be less than 150' in length.

Section Number & Title of Code:

6.13.7(B)(2) - Geotechnical criteria

Section Details from Code:

CODE states B. Minimum requirements. (2) Number of tests. At least two tests shall be performed within the boundary of each proposed retention/detention area. For each half acre of pond bottom area and for each lineal retention/detention area of 250 feet, an additional test shall be conducted. The County Engineer or his designee, may require additional tests if the initial tests indicate the need for them.

Reason/Justification for Request:

Request waiver to reduce the required number of borings from nine to seven for DRA-1. The provided soil borings stratification represents consistently the subsurface soils and groundwater conditions across the area and provide sufficient information for design

Section Number & Title of Code:

Section Details from Code:

Reason/Justification for Request:

- PERMITS:**
1. MARION COUNTY PUD APPROVAL 250902P APPROVED 9/16/2025
  2. MARION COUNTY - PRELIMINARY PLAN - PENDING
  3. MARION COUNTY - IMPROVEMENT PLAN - PENDING
  4. FWP - SANITARY SEWER - PENDING
  5. FWP - POTABLE WATER - PENDING
  6. FWP - SANITARY SEWER - PENDING
  7. FWP - NPDES (BY OTHERS) - PENDING
  8. CITY OF BELLEVUE - UTILITY REVIEW - PENDING

**WAIVERS:**

LD-C-12.2A - RIGHT-OF-WAY WIDTH  
 ROADWAYS WILL REMAIN WITH A ROW WIDTH THAT WILL BE 30 FEET WITH A 10' DRAINAGE AND UTILITY EASEMENT FOR A TOTAL WIDTH OF 40'. THIS PROJECT IS LOCATED WITHIN THE CITY OF BELLEVUE UTILITY JURISDICTION AND THEY HAVE ACCEPTED THE PROPOSED ROW AND EASEMENT CONFIGURATION (APPROVED 05/04/2024) SUBJECT TO PROVIDING A WRITTEN ACCEPTANCE LETTER OR EMAIL FROM CITY OF BELLEVUE OF THE PROPOSED RIGHT-OF-WAY AND EASEMENTS)

**LD-C-12.4 - SUBDIVISION ROADS AND RELATED INFRASTRUCTURE:**  
 THIS PROJECT REPRESENTS THE DESIGN OF THE ROADWAY TO ACCOMMODATE THE MINIMUM DESIGN SPEEDS OF 30 MPH FOR SUBDIVISION LOCAL AND MINOR LOCAL ROADS, 40 MPH FOR MAJOR LOCAL AND COLLECTOR ROADS, AND 45 MPH FOR ARTERIAL ROADS IN ACCORDANCE WITH FOOT AND LAMBERT UNDERGROUND APPLICANT SPECIES TO AVOID TO REDUCE DESIGN SPEEDS TO A MINIMUM OF 30 MPH. PROPOSED CURVES WARRANTING THIS DESIGN SPEED WILL HAVE PROPER SIGNAGE PER MUTCD.

**LD-C-13.1(D) - TYPE OF STORMWATER FACILITY:**  
 WAIVER REQUESTED TO REDUCE BERM WIDTH FROM 12 TO 9'. THE POND WILL BE PRIVATELY OWNED AND MAINTAINED BY A HOA.

- NOTES:**
1. BASED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S FLOOD INSURANCE RATE MAP (FIRM), COMMUNITY PANEL NO. 12605C004, EFFECTIVE AUGUST 28, 2006, THE PROPERTY REPRESENTED HEREON LIES WITHIN FLOOD ZONE "X" AN AREA OF MINIMAL FLOODING.
  2. ALL UTILITIES UNDER EXISTING OR PROPOSED PAYMENT SHALL BE SLEEVED IN ACCORDANCE WITH SECTION B.2.6(A) OF THE MARION COUNTY LAND DEVELOPMENT CODE.
  3. THIS PROJECT IS LOCATED IN THE SECONDARY SPRINGS PROTECTION ZONE.
  4. SIGHT DISTANCE AT DRIVEWAYS COMPLIES WITH FOOT REQUIREMENTS.
  5. VERTICAL DATUM IS BASED ON NATIONAL GEODETIC SURVEY CONTROL POINT 3678 86 AZ. ELEVATION = 70.06' (NAVD-1988).
  6. DESIGN SPEED = 25 MPH TO BE POSTED AT 20 MPH EXCEPT FOR CURVES AS DEPICTED ON SIGNAGE & STRIPING PLAN.
  7. THIS PROPOSED PROJECT HAS NOT BEEN GRANTED CONCURRENT APPROVAL AND/OR GRANTED AND/OR RESERVED ANY PUBLIC FACILITY CAPACITY. IT IS THE RIGHT OF THE PROPERTY OWNER SUBJECT TO A FUTURE CONCURRENT CONCEPT REVIEW AND/OR APPROVAL HAS BEEN DEFERRED TO LATER DEVELOPMENT REVIEW STAGES, SUCH AS, BUT NOT LIMITED TO IMPROVEMENT PLAN, FINAL PLAN, OR BILLING PERMIT REVIEW.
  8. ALL PROPOSED ROADS ARE TO BE LOCAL SUBDIVISION WITH PRIVATE ROAD STATUS.
  9. 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.
  10. ORIENTATION FOR THE IMPROVEMENTS SHOWN HEREON SHOULD NOT BE USED TO RECONSTRUCT BOUNDARY LINES.

**BASIS OF BEARINGS:**  
 BEARINGS AND DISTANCES SHOWN HEREON ARE BASED ON THE FLORIDA STATE PLANNING COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD 83), WITH 2011 ADJUSTMENT AS DERIVED FROM THE FLORIDA DEPARTMENT OF TRANSPORTATION VIRTUAL REFERENCE STATION NETWORK.

**BENCHMARK:**  
 TEMPORARY BENCHMARK (200) - FOUND 4"x4" CONCRETE MONUMENT (L.S. 506), NORTHING = 7122647', EASTING = 425814', ELEVATION = 72.27' (NAVD 1988)

**LEGAL DESCRIPTION:**  
 (PER ALLIANT NATIONAL TITLE INSURANCE COMPANY, ISSUING AGENT (TITL) OF FLORIDA, INC. COMMITMENT NUMBER: 2025445; ISSUING OFFICE FILE NUMBER: JENNER LOOP, BEARING A COMMITMENT DATE OF MAY 21, 2020)

BEGIN AT THE NORTHWEST CORNER OF THE SE 1/4 OF SECTION 14, TOWNSHIP 16 SOUTH RANGE 22 EAST, MARION COUNTY, FLORIDA; THENCE SOUTH 09°25'00" W, A DISTANCE OF 71.64 FEET; THENCE NORTH 89°01'10" W, A DISTANCE OF 80.00 FEET; THENCE SOUTH 09°35'00" E, A DISTANCE OF 180.13 FEET; THENCE SOUTH 71°22'21" E, A DISTANCE OF 80.24 FEET; TO A POINT ON THE WEST BOUNDARY OF BLOCK 64, SILVER SPRING SHORES UNIT NO. 25 SUBDIVISION, AS RECORDED IN PLAT BOOK J, PAGE 28, PUBLIC RECORDS OF MARION COUNTY, FLORIDA; THENCE SOUTH 09°00'00" E, ALONG SAID BOUNDARY A DISTANCE OF 80.15 FEET TO A POINT OF BEGINNING; THENCE ALONG A 160.00' RADIUS CURVE, CONVEX TO THE EAST, THROUGH A CENTRAL ANGLE OF 0°27'39" A DISTANCE OF 96.96 FEET TO THE NORTH RIGHT OF WAY OF UNDER TRAIL LOOP (A 160.00' RADIUS CURVE, CONVEX TO THE EAST, THROUGH A CENTRAL ANGLE OF 0°27'39" A DISTANCE OF 96.96 FEET TO THE NORTH RIGHT OF WAY OF UNDER TRAIL LOOP; THENCE LEAVING SAID CURVE ON A BEARING OF NORTH 89°25'00" W, A DISTANCE OF 200.84 FEET TO THE POINT OF BEGINNING, INCLUDING LOTS 1 & 4 SILVER SPRING SHORES UNIT 25 PLAT BOOK J, PAGES 202-208.

LESS AND EXCEPT THAT PORTION LYING WITHIN DEED TO SCHOOL BOARD OF MARION COUNTY, FLORIDA, IN BOOK 522, PAGE 787.

**OWNER / DEVELOPER:**  
 DR-HORTON AMERICA'S BUILDER  
 DAVID DONOVAN  
 28039Y BETHLEHEM, SUITE 10-A  
 OCALA, FLORIDA 34474  
 PHONE: 727-641-5907

**CIVIL ENGINEER:**  
 TILLMAN AND ASSOCIATES ENGINEERING, LLC  
 JEFFREY McPHERSON, P.E.  
 2208 S. WATKINS BLVD. 100  
 OCALA, FLORIDA 34471  
 PHONE: (352) 367-4568

**GEOTECHNICAL CONSULTANT:**  
 GULF COAST GEOTECHNICAL ENGINEERING, LLC  
 RON D. MELAK, P.E.  
 PO BOX 201 OLD MARLBOROUGH, FL 34677  
 PHONE: (813) 925-2728

**ENVIRONMENTAL CONSULTANT:**  
 MODICA & ASSOCIATES  
 30 MEMPHIS ROAD  
 CLERMONT, FLORIDA 34715  
 PHONE: (352) 369-2000

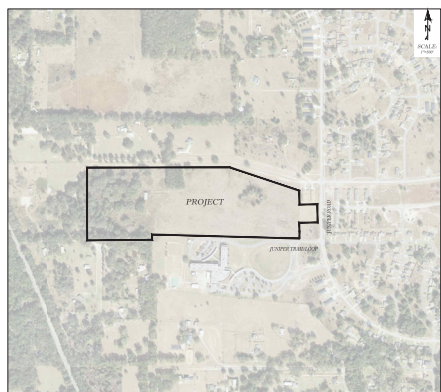
NOT VALID UNLESS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER

# IMPROVEMENT PLANS HEATHERWOOD

## RESUBMIT

SECTION 14, TOWNSHIP 16 SOUTH, RANGE 22 EAST  
MARION COUNTY, FLORIDA

THIS SITE CONTAINS:  
 RESIDENTIAL LOTS - 151  
 TOTAL MILES OF ROADWAY - 0.99 MILES  
 PROJECT AREA - 40.27 AC.  
 PARCEL #36640-004-00 (INCLUDING LOTS 3 & 4 SSS UNIT 25 PLAT BOOK J, PAGES 202-208) ( PARCEL 9025+0644-03)  
 CURRENT ZONING - PLANNED UNIT DEVELOPMENT (PUD) 250908ZP  
 FUTURE LAND USE - MEDIUM RESIDENTIAL (MR)  
 EXISTING IMPERVIOUS AREA - 0.00 AC. (0.00 S.F.) (0.00%)  
 PROPOSED IMPERVIOUS AREA - 8.12 30 AC. (544,646 S.F.) (31.77 %)  
 AVERAGE DAILY TRIPS (210) - 1528 TRIPS  
 PEAK HOUR TRIPS (210) - 182 TRIPS  
 ITE TRIP GENERATION MANUAL 10TH EDITION



**INDEX OF SHEETS**

01.01	COVER SHEET
02.01	GENERAL NOTES
03.01	AERIAL PHOTOGRAPH
04.01	MASTER PLAN
05.01	MASTER DRAINAGE PLAN
06.01 - 06.02	MASTER UTILITY PLAN
07.01 - 07.03	GEOMETRY PLAN
08.01	SIGNAGE & STRIPING PLAN
09.01 - 09.03	GRADING PLAN
09.04	DRA I GRADING
10.01 10.09	PLAN & PROFILES
11.01 - 11.02	WATER DISTRIBUTION DETAILS
12.0 - 12.02	SANITARY SEWER DETAILS
13.01	ROADWAY & PAVEMENT DETAILS
14.01 - 14.02	GRADING & DRAINAGE DETAILS
15.01 - 15.02	LIFT STATION DETAILS
16.01	GENERAL DETAILS
17.01	EROSION CONTROL PLAN
18.01	EROSION CONTROL DETAILS
19.01 - 19.03	OFFSITE UTILITY PLANS
20.01 - 20.02	TREE PRESERVATION PLAN
BL 01	BORING LOGS
RN.01	911 MANAGEMENT PLAN
SL.01	SLEEVING PLAN
1-4	BOUNDARY & TOPOGRAPHIC SURVEY (PREPARED BY JCH CONSULTING GROUP, INC)

**OWNER'S SIGNATURE**  
 I HEREBY CERTIFY THAT I MY SUCCESSORS AND ASSIGNS SHALL PERPETUALLY MAINTAIN THE IMPROVEMENTS AS SHOWN ON THIS PLAN.

DAVID DONOVAN  
 DR-HORTON AMERICA'S BUILDER

**ENGINEER'S CERTIFICATION**  
 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.

JEFFREY McPHERSON, P.E.  
 REGISTERED ENGINEER NO. 8905  
 STATE OF FLORIDA

**SURVYOR'S CERTIFICATE**  
 I HEREBY CERTIFY THAT THE SURVEY REPRESENTED HEREON IS IN ACCORDANCE WITH ALL APPLICABLE REQUIREMENTS OF THE LDC AND MEETS THE STANDARDS OF PRACTICE AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS.

JCH CONSULTING GROUP, INC.  
 CHRISTOPHER J. HOWSON  
 REGISTERED LAND SURVEYOR NO. 6851  
 STATE OF FLORIDA

**THOMAS ENGINEERING, LLC**  
 1720 SE 48th Ave, Bldg 110, Ocala, FL 34471  
 OFFICE: (352) 236-7947  
 FAX: (352) 236-7945  
 CELL: (352) 236-7945  
 LICENSE NO. 12574  
 STATE OF FLORIDA

**REGISTERED PROFESSIONAL ENGINEER**  
 JEFFREY McPHERSON, P.E.  
 REGISTERED ENGINEER NO. 8905  
 STATE OF FLORIDA

**REGISTERED LAND SURVEYOR**  
 CHRISTOPHER J. HOWSON  
 REGISTERED LAND SURVEYOR NO. 6851  
 STATE OF FLORIDA

**COVER SHEET**

DATE: 11/22/2025  
 DRAWN BY: AS  
 CHECK BY: JMD  
 JOB NO.: 25-01

SHEET: 01.01

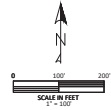






GRADING LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPOSED STORM PIPE
- PROPOSED SWALE BOTTOM
- PROPOSED STRUCTURE ID
- INSP-2 PER #12
- GRATE RAJST



NOTES

- PLEASE REFER TO POST DEVELOPMENT DATA BY SITE DEVELOPER REPORT FOR EXTENTS OF POST GRADE.

MARION COUNTY APPROVAL STAMP

**Thomas & Associates**  
ENGINEERING, LLC  
CIVIL ENGINEERING - PLANNING - LANDSCAPE ARCHITECTURE - ENVIRONMENTAL  
1720 SE 16TH AVE, SUITE 100, OCHA, FL 32871  
PHONE: 407-241-3945  
OFFICE: 407-241-3945  
FAX: 407-241-3945

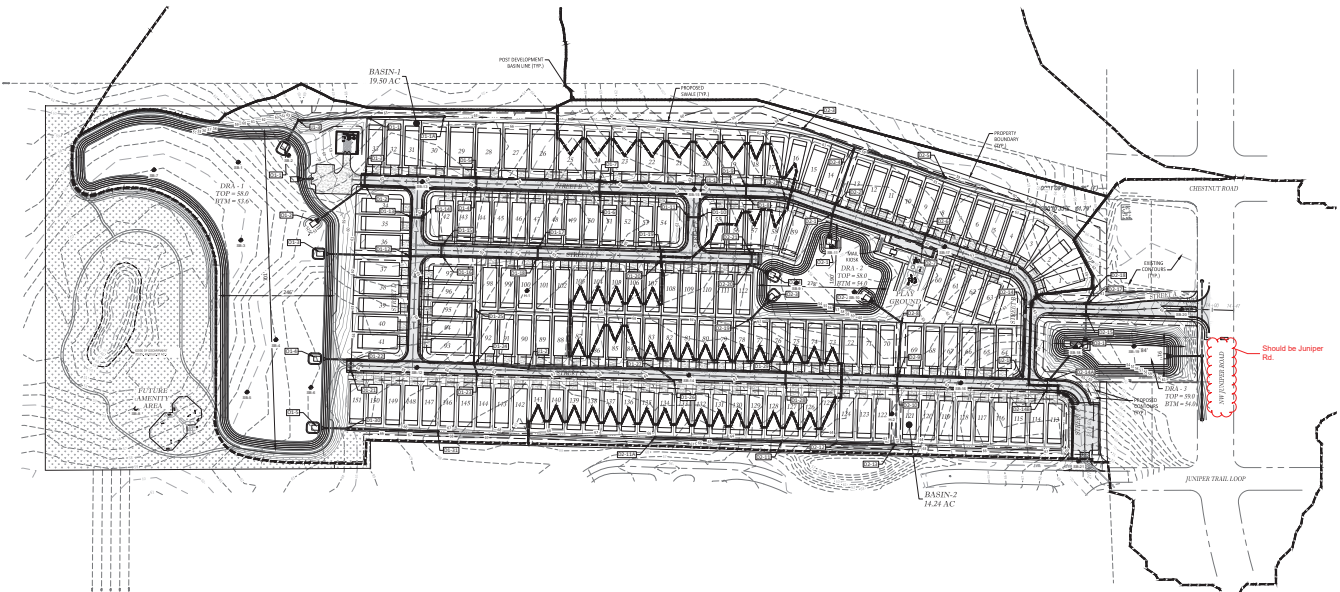
NO.	REVISION

APPROVED BY PLANS  
H. H. HARRISON  
MARION COUNTY, FLORIDA

**MASTER DRAINAGE PLAN**

DATE: 12-22-2010  
DRAWN BY: AS  
CHECK BY: JMA  
REVISED: 12-30-10

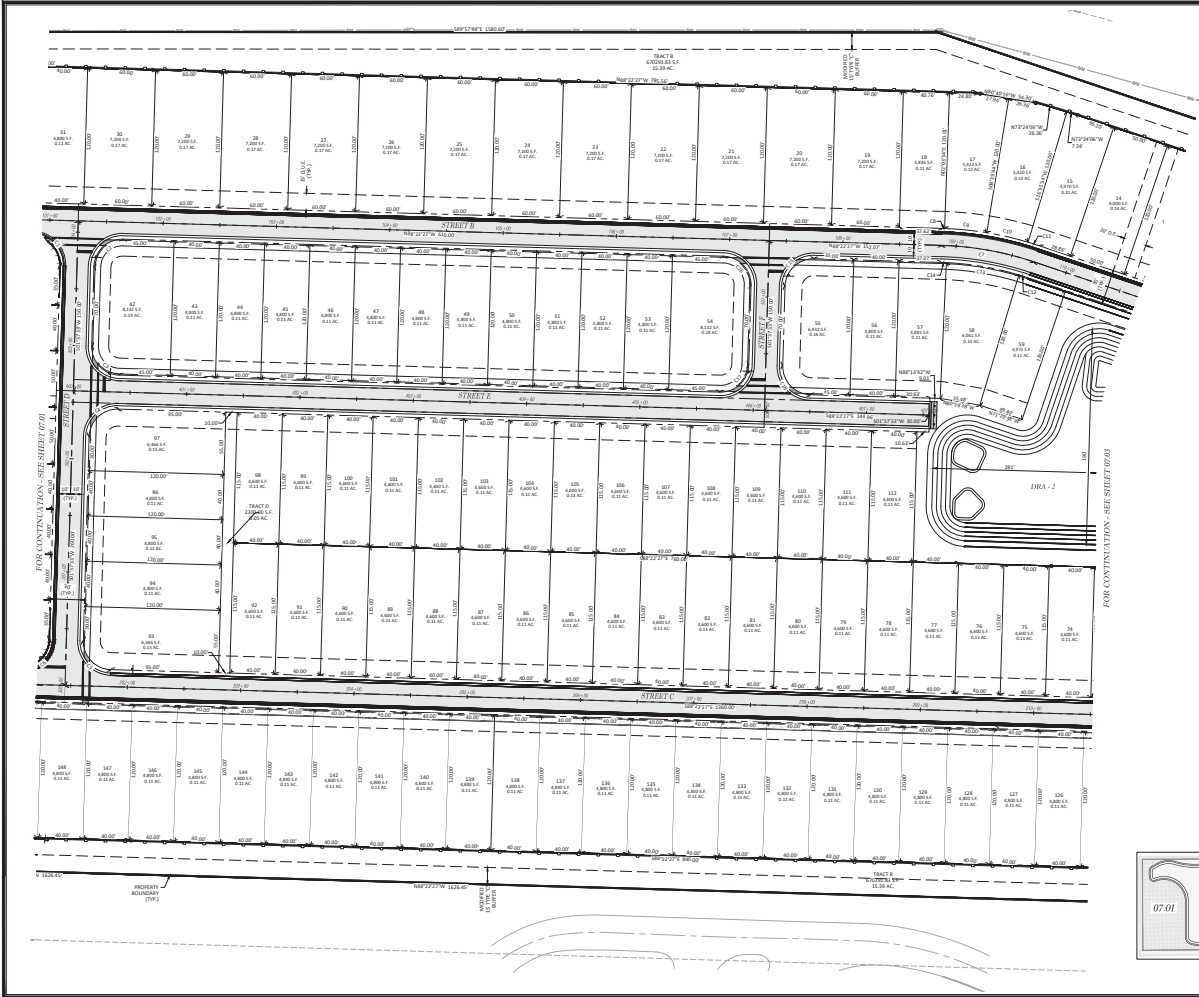
SHEET: 05.01











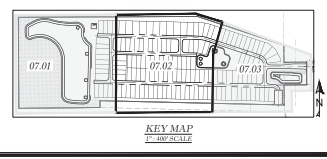
**C/L CURVE DATA**

STATION	SECT	CHORD	CHORD BEARING	CHORD	CHORD BEARING
CT	50°50'00"	200.00	83.01	61.86	21.77

**PARCHE CURVE DATA**

STATION	BL-C	TRUCK	CHORD	CHORD BEARING	TRUCK	TRUCK BEARING
CB	5°00'00"	200.00	2.22	1.15	2.23	58°50'24.17"E
CB	7°00'00"	200.00	37.43	18.78	37.46	58°18'23.27"E
CB	9°00'00"	200.00	79.26	38.56	79.27	57°30'38.81"E
CB	11°00'00"	200.00	120.83	52.83	120.84	56°37'38.81"E
CB	13°00'00"	200.00	162.11	66.45	162.12	55°20'38.82"W
CB	15°00'00"	200.00	202.81	79.26	202.82	53°50'38.82"W
CB	17°00'00"	200.00	242.81	91.76	242.82	52°30'38.82"W
CB	19°00'00"	200.00	282.00	103.53	282.01	51°20'38.82"W
CB	21°00'00"	200.00	320.39	114.56	320.40	50°20'38.82"W
CB	23°00'00"	200.00	358.00	124.96	358.01	49°30'38.82"W
CB	25°00'00"	200.00	394.83	134.83	394.84	48°50'38.82"W
CB	27°00'00"	200.00	431.00	144.28	431.01	48°20'38.82"W
CB	29°00'00"	200.00	466.63	153.41	466.64	47°50'38.82"W
CB	31°00'00"	200.00	501.75	162.23	501.76	47°20'38.82"W



MARION COUNTY APPROVAL STAMP

0 40' 80'  
SCALE IN FEET  
1" = 40'

**LEGEND**

- DRIVE, DRIVE, UTILITY AND ACCESS EASEMENT
- DRIVE EASEMENT
- UTILITY EASEMENT
- - - CENTERLINE

**THOMAS & ASSOCIATES**  
ENGINEERING, LLC

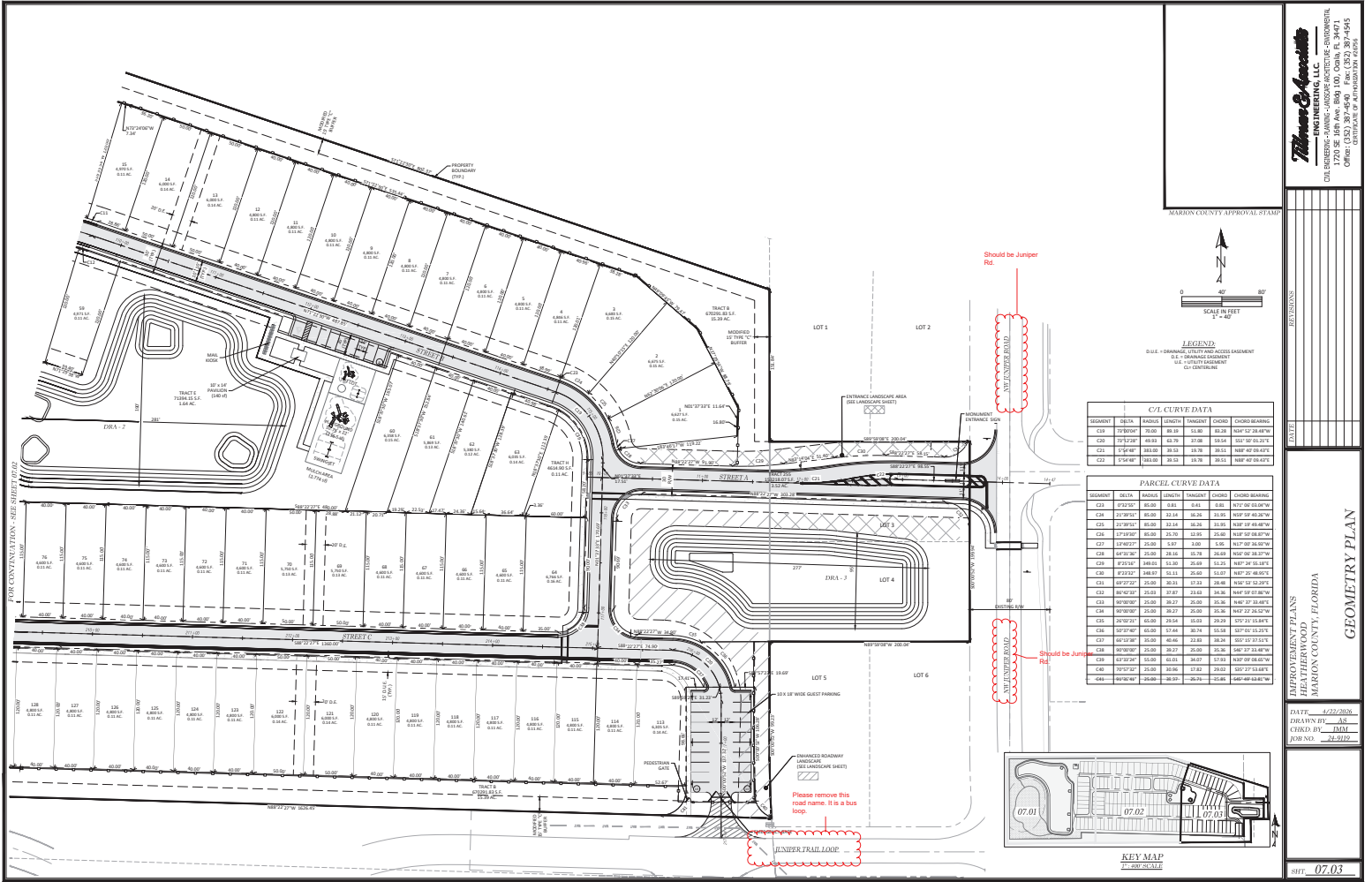
CHA. HENDERSON - P.L.L.C. - REGISTERED ARCHITECT - FLORIDA  
720 SE 10th Ave. Room 100, Ocala, FL 34471  
Office: 352-237-7075  
Cell: 352-237-7075

DATE: 11/22/2016  
DRAWN BY: AS  
CHECK BY: JAM  
FOR: 11-1910

MARION COUNTY, FLORIDA  
HEATHERWOOD  
GEOMETRY PLAN

SHT. 07.02

NOT VALID UNLESS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER



**Thomas & Associates**  
 ENGINEERING, LLC  
 CIVIL ENGINEERING - PLANNING - LANDSCAPE ARCHITECTURE - ENVIRONMENTAL  
 1720 SE 18th Ave, Room 100, Ocala, FL 34471  
 PHONE: 352-237-1111  
 FAX: 352-237-1112  
 OFFICE OF A PROFESSIONAL ENGINEER

REVISIONS

NO.	DATE	DESCRIPTION

APPROVED BY PLANS  
 HIGHWAY DEPARTMENT  
 MARION COUNTY, FLORIDA

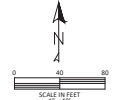
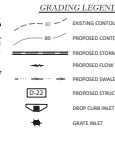
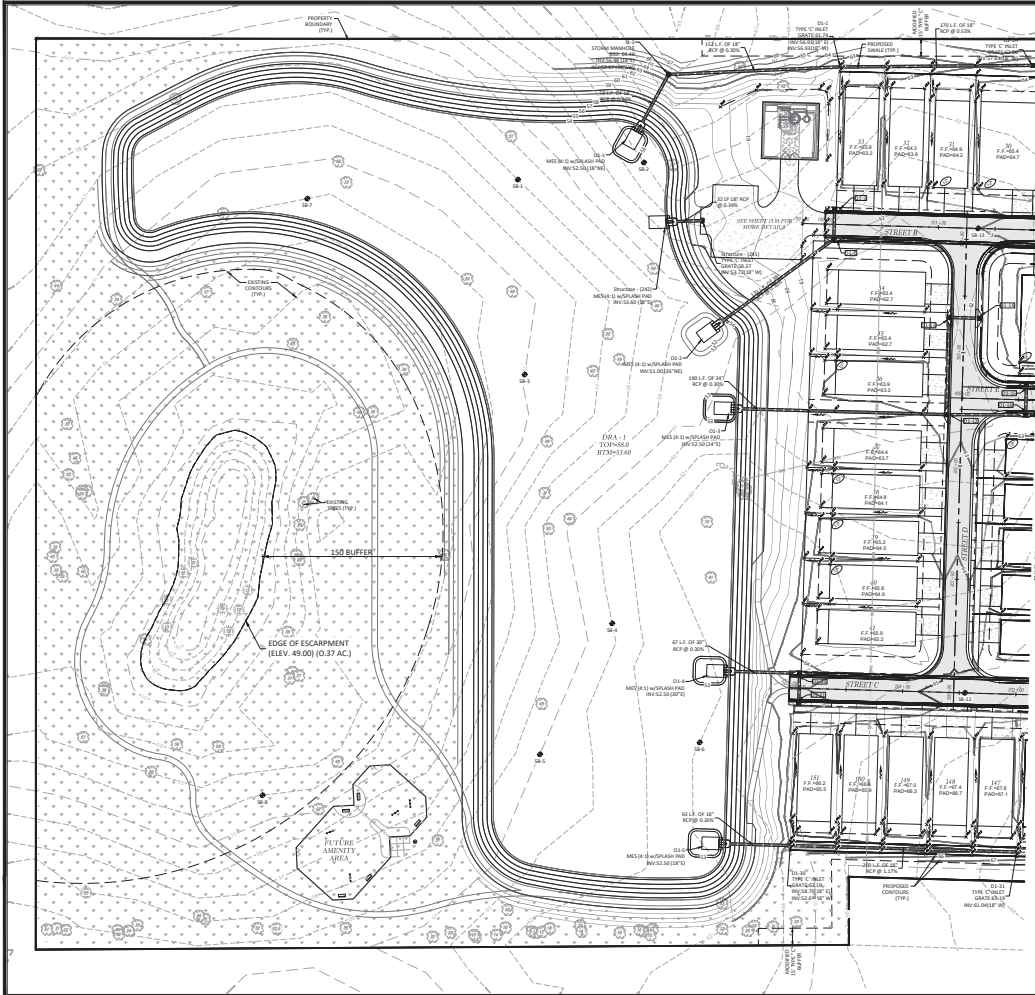
GEOMETRY PLAN

DATE: 12/22/2018  
 DRAWN BY: AS  
 CHECK BY: MM  
 FOREMAN: 12/29/19

SHT. 07.03

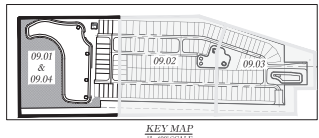
© Marion County OR Number: Juniper Loop Rd Channel 160 PUD/VA/CONSTRUCTION/07.01-07.03 GEOMETRY PLAN.dwg 4/21/2018 11:42:42 AM AutoCAD PLOT (General Documentation) p3





- NOTES**
1. MINIMUM GRADE ALONG LOT LINE UNLESS OTHERWISE DENOTED.
  2. MAXIMUM SLOPE ANYWHERE ON LOT UNLESS OTHERWISE DENOTED.
  3. IF 2% DIFFERENCE FROM PAD TO PROPOSED SLOPE.
  4. MINIMUM 1% SLOPE FROM PAD TO ADJACENT LOT CORNER UNLESS OTHERWISE DENOTED.
  5. STORM WATER SHALL BE COLLECTED BY PROPOSED DRAINAGE AND RECEIVED INTO ADDITIONAL TRENCHES AND STEP DOWNERS MAY BE REQUIRED. SEE LOT DRAINAGE DETAIL ON THE NEXT SHEET.
  6. ALL LOT DRAINAGES TO HIGH SIDE OF LOT IF EXPOSED SHALL BE GRADED ON 2% DOWNSLOPE.
  7. LOT DRAINAGE WITH AN INLET SHALL EXCEED THE MAXIMUM ALLOWABLE PAVING SLOPE OF 5%.

FOR CONTINUATION - SEE SHEET 09.02



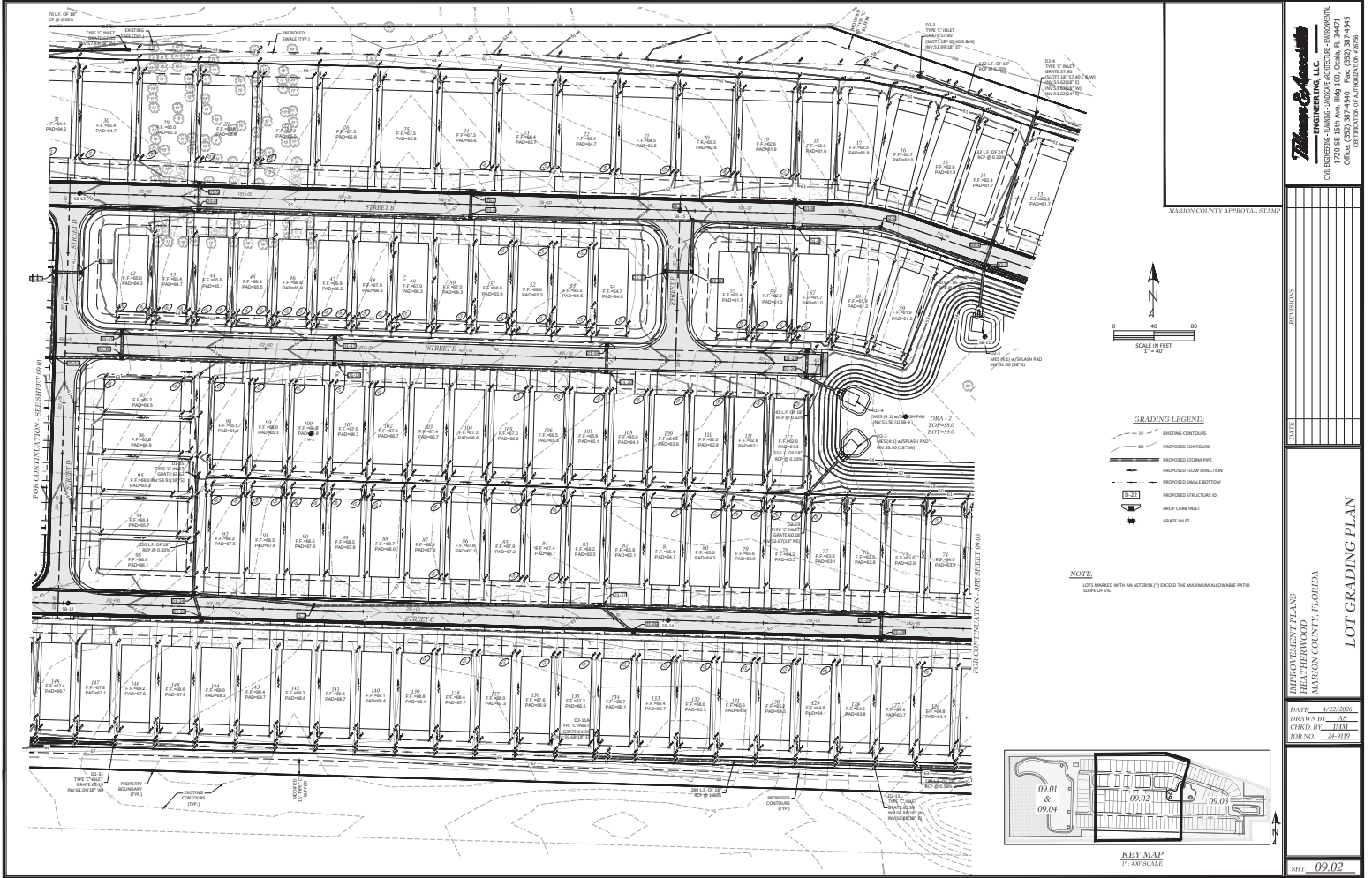
**Thomas Associates**  
ENGINEERS, INC. LLC  
1720 SE 16TH AVE, SUITE 100, OAKLAND, FL 32061  
TEL: 321.329.1234 FAX: 321.329.1235

MARION COUNTY APPROVAL STAMP

PROFESSIONAL SEAL	DATE: 11/22/2023
DRAWN BY: AS	CHECKED BY: MM
DATE: 11/22/2023	DATE: 11/22/2023

**LOT GRADING PLAN**

SHEET: 09.01



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**Thomas Associates**  
 ENGINEERS, INC.  
 1720 SE 16th Ave, Room 100, Ocala, FL 34471  
 OFFICE PHONE: 352-237-0975  
 CELL PHONE: 352-237-0975

DATE	
BY	
CHECKED BY	
APPROVED BY	

REVISIONS

DATE

DESCRIPTION

APPROVED BY PLANS  
 HILSHAWOOD  
 MARION COUNTY, FLORIDA

DATE: 12/22/2020  
 DRAWN BY: AS  
 CHECKED BY: MAM  
 FORNAX: 24-9119

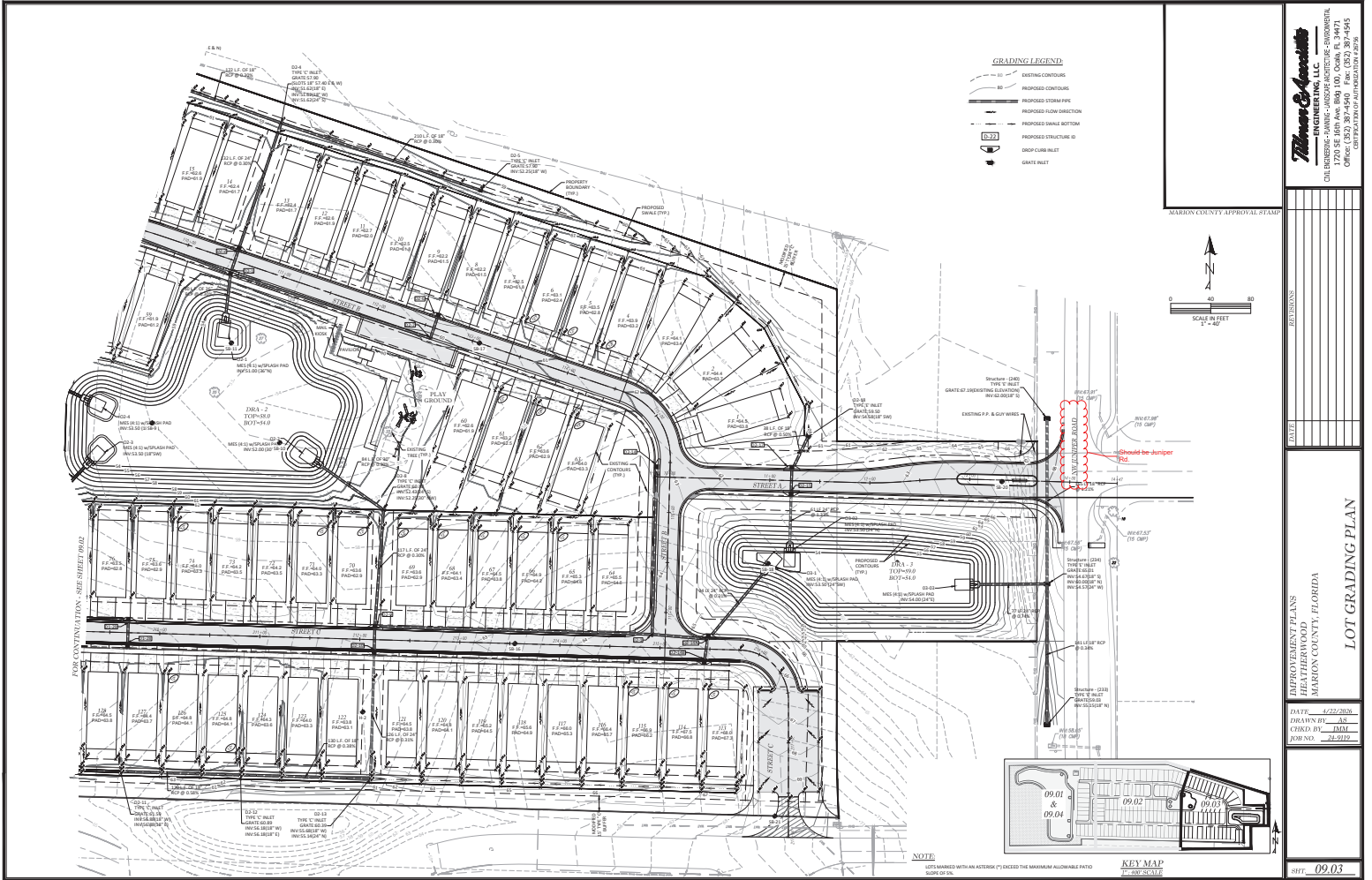
KEY MAP

09.01 09.02 09.03  
 09.04

KEY MAP

09.02

SHT. 09.02



NOT VALID UNLESS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER

**Thomas & Associates**  
 ENGINEERS, INC.  
 1720 SE 10th Ave, Room 100, Ocala, FL 34471  
 OFFICE: 352.237.1234  
 FAX: 352.237.1235

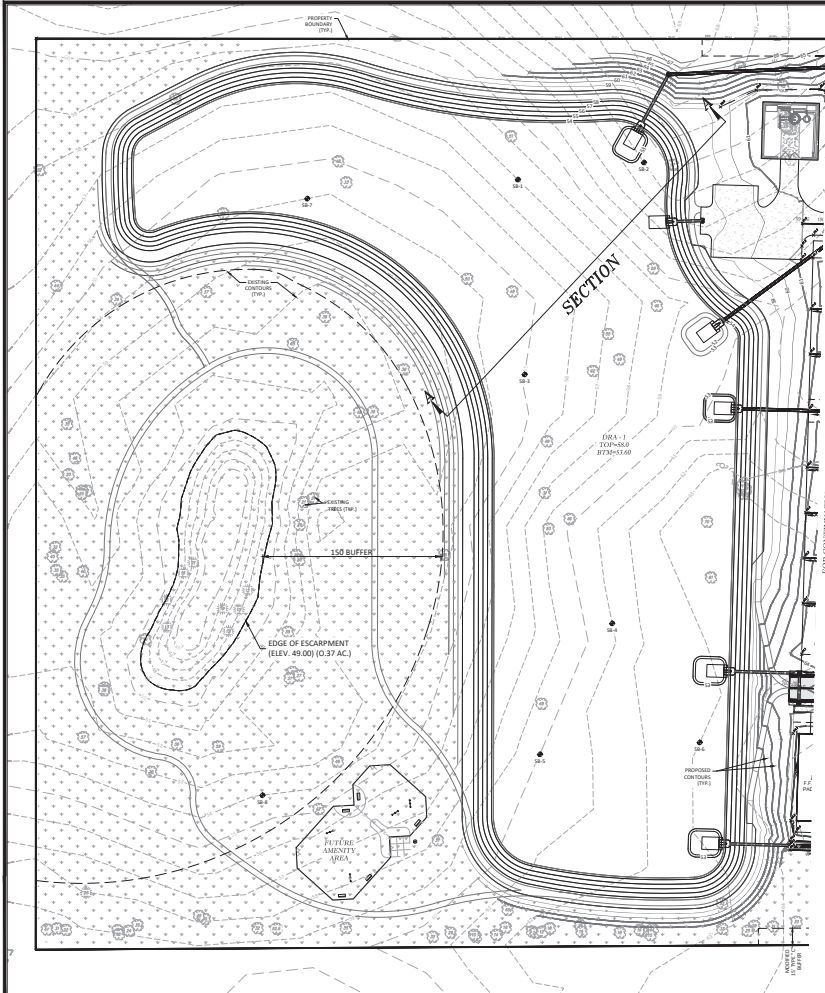
MARION COUNTY APPROVAL STAMP

DATE:	
REVISIONS:	

APPROVED BY PLANS  
 HILDA BERNARD  
 MARION COUNTY, FLORIDA

DATE: 12/22/2020  
 DRAWN BY: AS  
 CHECKED BY: MAM  
 FOREMAN: 24-0910

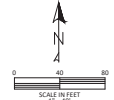
LOT GRADING PLAN  
 SHEET: 09.03



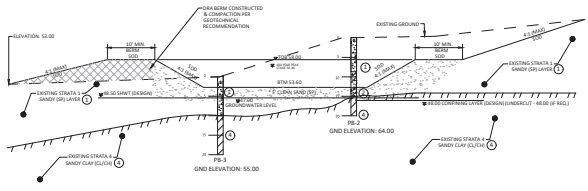
NOT VALID UNLESS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER

**GRADING LEGEND**

- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPOSED STORM PIPE
- PROPOSED FLOW DIRECTION
- PROPOSED GRADE BOTTOM
- PROPOSED STRUCTURE ID
- SACK CURB INLET
- GRAVE INLET



MARION COUNTY APPROVAL STAMP



**DRA - 1 / SECTION A-A**

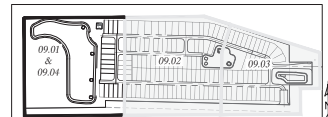
- \* 5' CLEAN SAND REG. UNDERCUT WHEN REQ. TO MAINTAIN 1' MIN CLEAN SAND (DPF MATERIAL, WOOD FIBER SOIL & MINIMUM 4\"/>

**DRY RETENTION POND DRA 1**

(200 YR 24HR & 25 YEAR 36 HR. PLOT - DEVELOPED 100% RETENTION OF ALL STORM WATER WITH NO DISCHARGE)

**SOIL BORING LEGEND**

- DARK GRAY TO WHITE TO YELLOWISH BROWN SAND TO SAND WITH FINE (DPF RM)
- LIGHT GRAY TO YELLOWISH BROWN CLAYEY SAND (DC)
- GRAY SANDY CLAY (C/LCH)



**KEY MAP**  
11-22-2011

**Thomas Associates**  
ENGINEERS, INC.  
1720 SE 16TH AVE, SUITE 100, OAKBURN, FL 32061  
TEL: 386-239-0975  
WWW.THOMASASSOCIATES.COM

DATE	DESCRIPTION

PREPARED BY PLANS  
DESIGNED BY  
MARION COUNTY, FLORIDA

**DRA 1 GRADING**

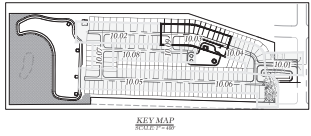
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DRAWN BY: AS  
CHECKED BY: MM  
ISSUED: 11-22-2011

SHEET: 09.04

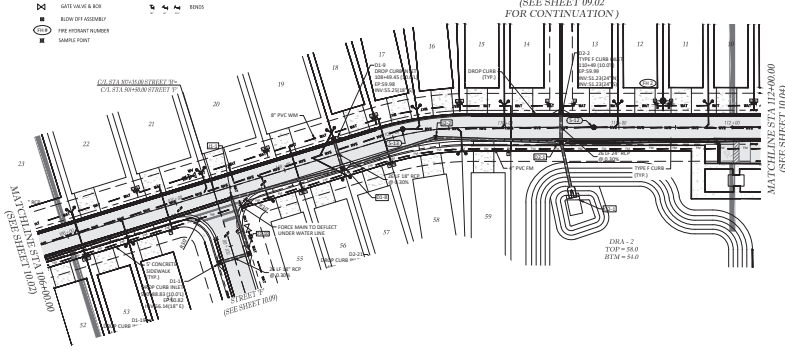
© Marion County OR Horton - Judge Long Re Chemical HS PUD/CD/CONSTRUCTION/09.01-09.04 OF GRADING PLAN.dwg 6/22/2024 11:47:57 AM AutoCAD FOR General Documentation.plt



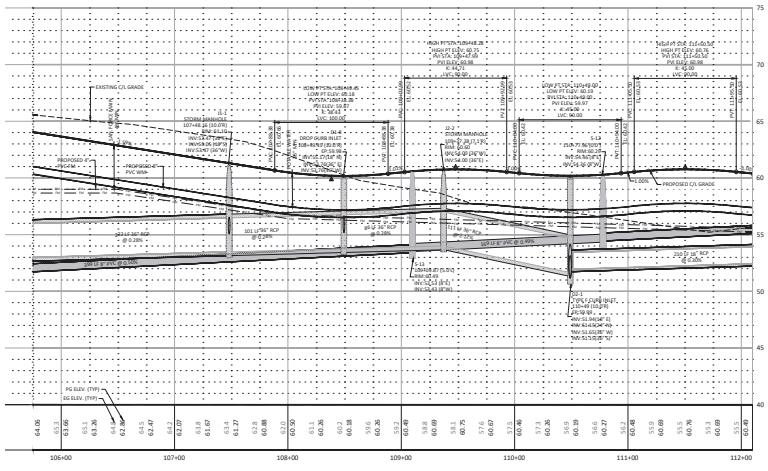




- WATER LEGEND**
- WATER MAIN
  - FIRE HYDRANT KERNELLY PVAL
  - VALVE
  - SINGLE WATER SERVICE
  - DOUBLE WATER SERVICE
  - GATE VALVE & BOX
  - BLIND OFF ASSEMBLY
  - NEW HYDRANT NUMBER
  - WARRANTY NUMBER
  - WARRANTY FOOT
- SANITARY SEWER LEGEND**
- SANITARY SEWER
  - MANHOLE
  - SANITARY MANHOLE FLAGGED
  - FORCE SERVICE
  - SINGLE SERVICE
  - SANITARY FORCE MAIN
  - BRICK
- STORM LEGEND**
- DROP CURB INLET
  - STORM MANHOLE
  - STORM PVT
  - STORM STRUCTURE ID



**STREET 'B'**



NOT VALID UNLESS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER

I:\Water County\DR Horton - Juniper Loop & Chetani Hill PUD\CONSTRUCTION\10-01-10-18 PLAN & PROFILE.dwg 6/22/2026 11:48:27 AM\_AutoCAD PLOT (General Documentation).pl

MARRON COUNTY APPROVAL STAMP

SCALE IN FEET  
1" = 40'

PROFILE SCALE  
1" = 4' VERT.  
1" = 40' HORIZ.

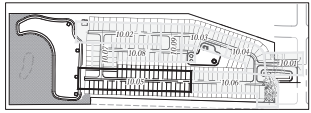
IMPROVEMENT PLANS  
MARRON COUNTY, FLORIDA  
MARRON COUNTY, FLORIDA

DATE: 4/22/2026  
DRAWN BY: AC  
CHECK BY: DDA  
JOB NO.: 24-0119

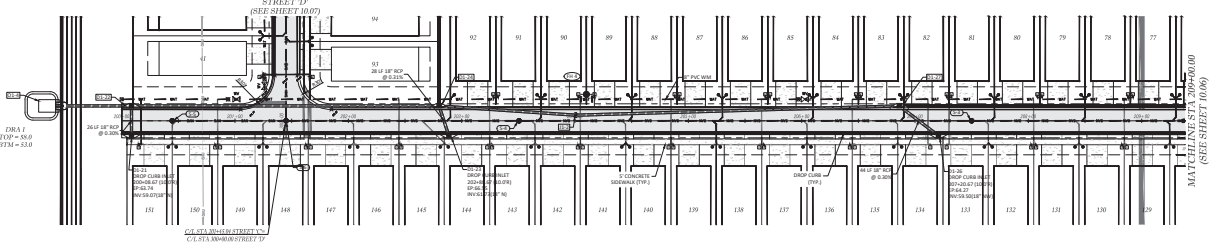
SHEET 10.03

W. H. HARRIS & ASSOCIATES, L.L.C.  
ENGINEERING, L.L.C.  
CIVIL ENGINEERING - PLANNING - LANDSCAPE ARCHITECTURE - ENVIRONMENTAL  
1720 SE 18TH AVE, SUITE 100, Ocala, FL 34071  
PHONE: 352.237.4475  
WWW.WHHARRIS.COM

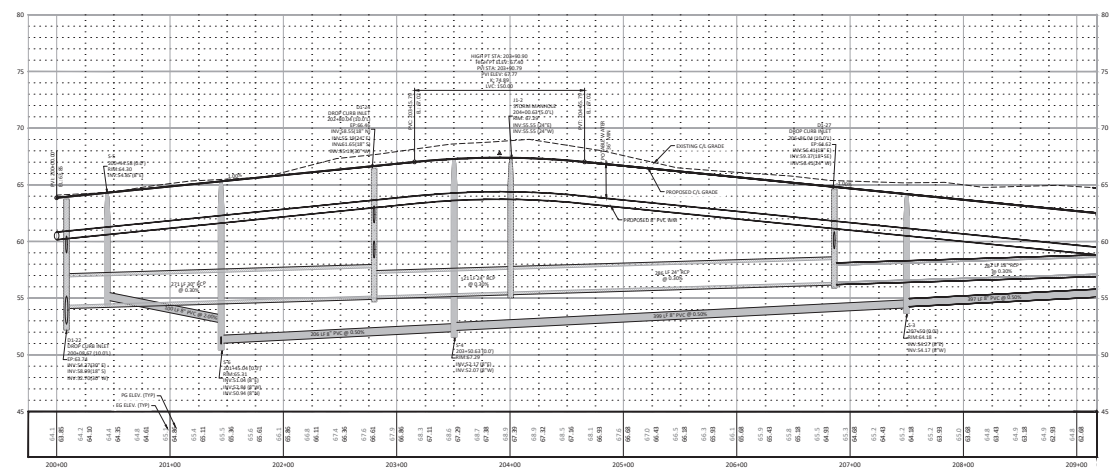
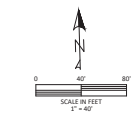




- WATER LEGEND**
- WATER MAIN
  - FIRE HYDRANT ASSEMBLY (FHA)
  - WELL
  - SINGLE WATER SERVICE
  - DOUBLE WATER SERVICE
  - GATE VALVE & BOX
  - BLIND OFF ASSEMBLY
  - NEW HYDRANT NUMBER
  - WATER POINT
- SANITARY SEWER LEGEND**
- SANITARY SEWER
  - SANITARY MANHOLE (HUBBED)
  - DOUBLE SERVICE
  - SINGLE SERVICE
  - SANITARY FORCE MAIN
  - BRICK
- STORM LEGEND**
- DROP CURB BELL
  - STORM MANHOLE
  - STORM POT
  - STORM STRUCTURE (S)



**STREET 'C'**



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\\water-county\08\homer\janger\loop\ba\chenna\48\FUD\CONSTRUCTION\10-01-10-08\PLAN & PROFILE.dwg 6/22/2008 11:48:41 AM AutoCAD PDF (General Documentation).pl

**MARRON COUNTY APPROVAL STAMP**

**WATER**

**SEWER**

**STREET 'C'**

**PLAN & PROFILE**

**DATE: 6/22/2008**

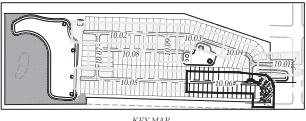
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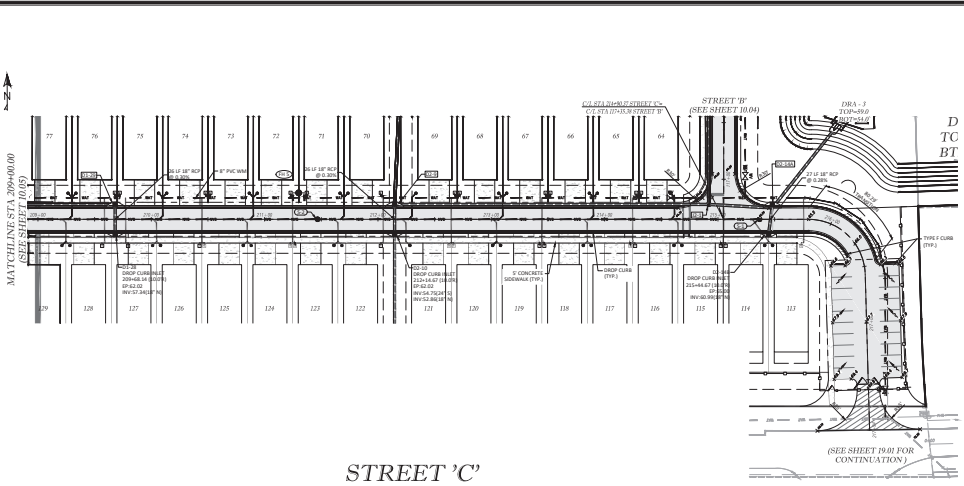
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**SHT. 10.05**

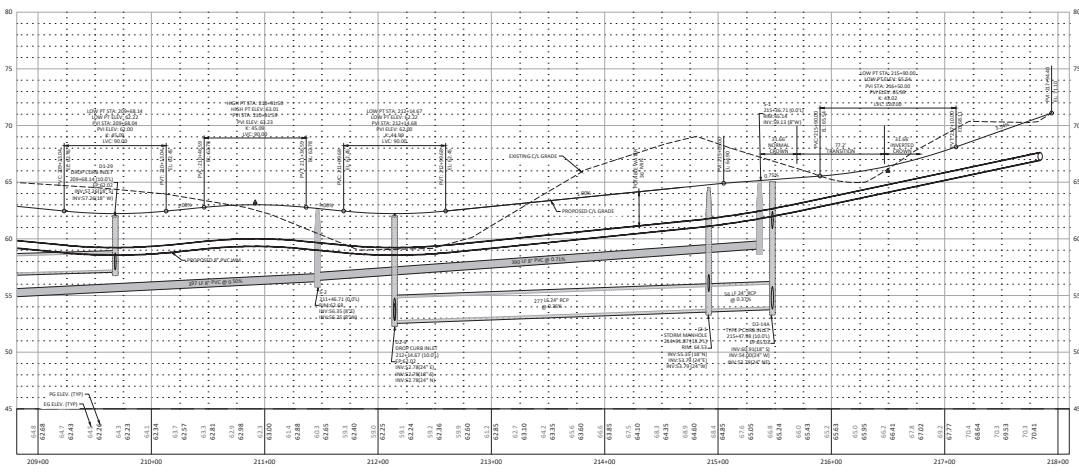
**WATER & SEWER ENGINEERS, INC.**  
 CIVIL ENGINEERS - PLANS - LANDSCAPE ARCHITECTURE - ENVIRONMENTAL  
 1726 S. 10TH AVE. SUITE 100, OPAKA, FL 33471  
 (407) 885-1400  
 WWW.WATERANDSEWERENGINEERS.COM



- WATER LEGEND:**
- WATER MAIN
  - WATER SERVICE ASSEMBLY (W/S)
  - TIE
  - RENDS
  - SINGLE WATER SERVICE
  - DOUBLE WATER SERVICE
  - GATE VALVE & BOX
  - ROUND OF MAINWAY
  - FIRE HYDRANT NUMBER
  - SHARPLE POINT
- SANITARY SEWER LEGEND:**
- SANITARY SEWER
  - MANHOLE
  - SANITARY MANHOLE NUMBER
  - DOUBLE SERVICE
  - SANITARY FORCE MAIN
  - RENDS
- STORM LEGEND:**
- STORM CURB INLET
  - STORM MANHOLE
  - STORMPIPE
  - STORM STRUCTURE ID



**STREET 'C'**



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**THOMAS & JENNIFER ENGINEERING, LLC**  
 CIVIL ENGINEERING - PLANNING - LANDSCAPE ARCHITECTURE - ENVIRONMENTAL  
 1720 SE 18TH AVE, SUITE 100, OPAWA, FL 32071  
 (904) 241-1111  
 WWW.THOMASANDJENNIFER.COM

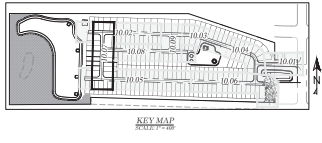
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 CHECKED BY: JMA  
 JOB NO.: 10-010

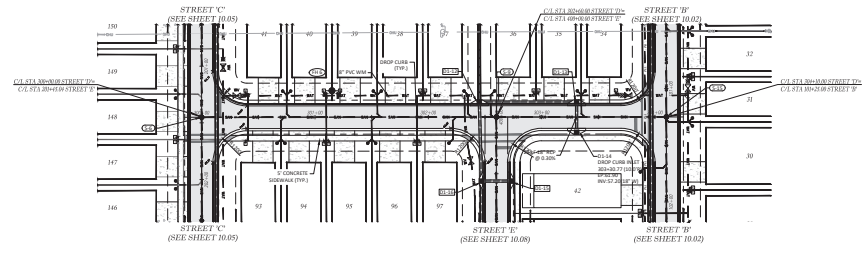
IMPROVEMENT PLANS  
 MARRION COUNTY, FLORIDA  
**PLAN & PROFILE**  
**STREET 'C'**

SHEET: 10.06

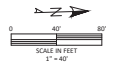
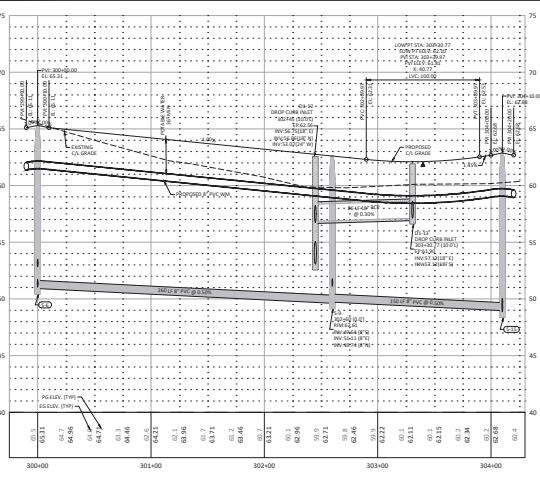
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- WATER LEGEND**
- WATER MAIN
  - FIRE HYDRANT ASSEMBLY (FHA)
  - TI
  - BRIDGE
  - UNDESL WATER SERVICE
  - UNDERSL WATER SERVICE
  - GATE VALVE & BOX
  - BLIND OFF ASSEMBLY
  - WATER METER
  - WATER METER
- SANITARY SEWER LEGEND**
- SANITARY SEWER
  - MANHOLE
  - SANITARY MANHOLE PLUMBER
  - UNDER SERVICE
  - UNDER SERVICE
  - SANITARY FORCE MAIN
  - BRIDGE
- STORM LEGEND**
- DROP CURB RISE
  - STORM MANHOLE
  - STORM PPE
  - STORM STRUCTURE ID



**STREET 'D'**



MARRION COUNTY APPROVAL STAMP

**MARRION COUNTY APPROVAL STAMP**

**W. J. ... ENGINEERING, INC.**  
 CIVIL ENGINEERING - PLANNING - ARCHITECTURE - ENVIRONMENTAL  
 1726 SE 16TH AVE. SUITE 100, Ocala, FL 34471  
 PHONE: 352-237-4455  
 FAX: 352-237-4456  
 WWW: WWW.WJENGINEERING.COM

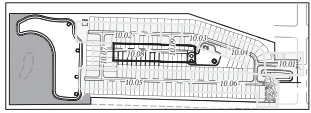
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 DRAWN BY: AS  
 CHECKED BY: DDA  
 JOB NO.: 04-9119

IMPROVEMENT PLANS  
 MARRION COUNTY, FLORIDA  
**PLAN & PROFILE**  
**STREET 'D'**

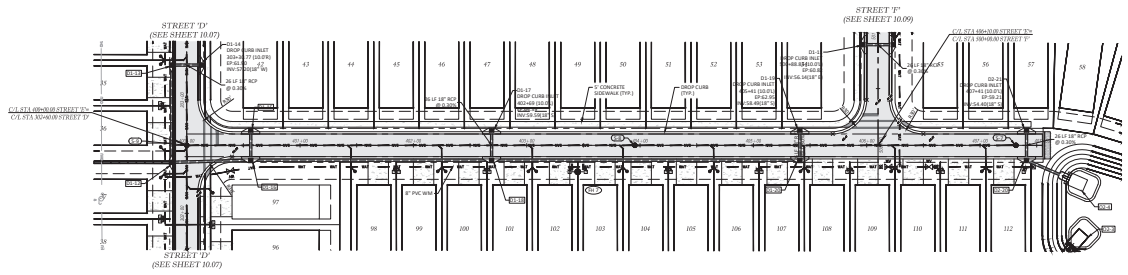
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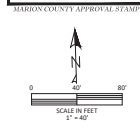
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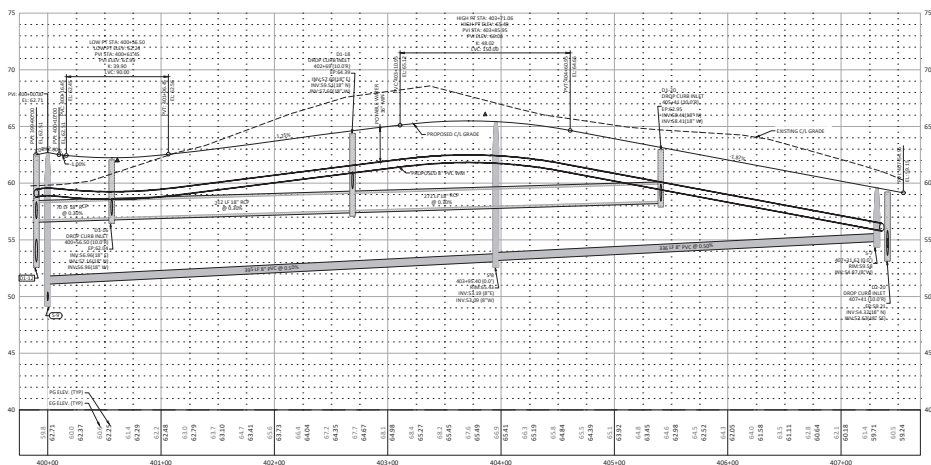
- WATER LEGEND**
- WATER MAIN
  - FIRE HYDRANT KERNALLY SPIKE
  - TR
  - BRICK
  - SINGLE WATER SERVICE
  - DOUBLE WATER SERVICE
  - GATE VALVE & BOX
  - BLIND OFF ADDRESS
  - NEW HYDRANT NUMBER
  - SMALL POINT
- SANITARY SEWER LEGEND**
- SANITARY SEWER
  - MANHOLE
  - SANITARY MANHOLE PLUMBER
  - SEWER SERVICE
  - SEWER SERVICE
  - SANITARY FORCE MAIN
  - BRICK
- STORM LEGEND**
- DROP CLEAR BELL
  - STORM MANHOLE
  - STORM PPE
  - STORM STRUCTURE ID



**STREET 'E'**



DATE: 12/12/2006  
 TIME: 10:52  
 BY: JLM



VERTICAL SCALE  
 1" = 4 FEET

**MARRION COUNTY APPROVAL STAMP**

**THOMAS & ASSOCIATES, INC.**  
 ENGINEERS  
 1726 SE 16TH AVE, SUITE 100, Ocala, FL 34071  
 PHONE: 352-237-4455  
 FAX: 352-237-4456

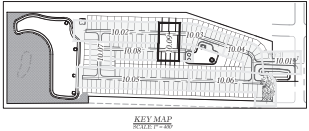
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IMPROVEMENT PLANS  
 MARRION COUNTY, FLORIDA  
**PLAN & PROFILE**  
**STREET 'E'**

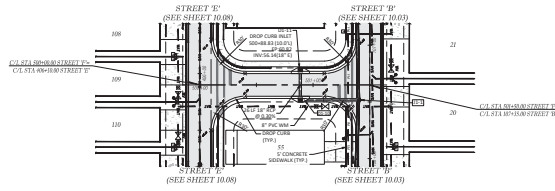
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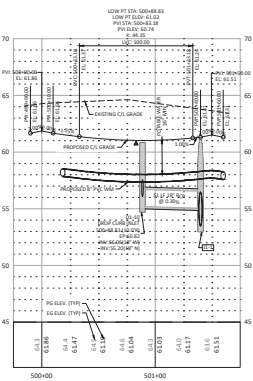
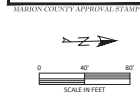
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- WATER LEGEND**
- Water Main
  - Fire Hydrant (Normally Open)
  - Valve
  - Ends
  - Single Water Service
  - Double Water Service
  - Gate Valve & Box
  - Right of Way
  - Fire Hydrant Marker
  - Water Point
- SANITARY SEWER LEGEND**
- Sanitary Sewer
  - Manhole
  - Sanitary Manhole Flange
  - Double Service
  - Single Service
  - Sanitary Force Main
  - Ends
- STORM LEGEND**
- Drop Curve Inlet
  - Storm Manhole
  - Storm Pipe
  - Storm Structure ID



**STREET 'F'**



**W. H. HARRIS & ASSOCIATES, INC.**  
ENGINEERS, ARCHITECTS, PLANNERS  
1726 SE 16TH AVE, SUITE 100, Ocala, FL 34471  
352.237.1100  
WWW.WHHARRIS.COM

MARRON COUNTY APPROVAL STAMP

DATE: 4/22/2008  
DRAWN BY: JC  
CHECKED BY: DDA  
JOB NO.: 08-0119

IMPROVEMENT PLANS  
MARRON COUNTY, FLORIDA  
**PLAN & PROFILE**  
STREET 'F'

SHEET 10.09

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**Excavation and Trenching 1**  
7.3.2 U.T. 102

**Excavation and Trenching 2**  
7.3.2 U.T. 103

**Pipe Locating Wire and Detectable Tape**  
7.3.2 U.T. 104

**Water and Reclaimed Water Services (Typical)**  
7.3.2 U.T. 107

**Tapping Sleeve and Gate Valve Assembly**  
7.3.2 U.T. 108

**Utility Man Marker**  
7.3.2 U.T. 109

**Typical Valve Box Cover**  
7.3.2 U.T. 110

**Sealed Valve Edge, Adjustable**  
7.3.2 U.T. 111

**Valve Edge Pad**  
7.3.2 U.T. 112

**Restrained Pipe Table**  
7.3.2 U.T. 116.A

MINIMUM RESTRAINED LENGTH (FT)	FOR SIZE OF FITTING AND VALVE	
	FOR SIZE OF FITTING AND VALVE	FOR SIZE OF FITTING AND VALVE
1/2"	10	10
3/4"	10	10
1"	10	10
1 1/4"	10	10
1 1/2"	10	10
2"	10	10
2 1/2"	10	10
3"	10	10
3 1/2"	10	10
4"	10	10
4 1/2"	10	10
5"	10	10
6"	10	10
8"	10	10
10"	10	10
12"	10	10
15"	10	10
18"	10	10
21"	10	10
24"	10	10
30"	10	10
36"	10	10
42"	10	10
48"	10	10
60"	10	10
72"	10	10
90"	10	10
108"	10	10
120"	10	10

**Restrained Pipe Table**  
7.3.2 U.T. 116.B

**Thrust Collar Water Mains**  
7.3.2 U.T. 201

**Temporary Jumper Connection**  
7.3.2 U.T. 203

**Gate Valve Water and Reclaimed Mains**  
7.3.2 U.T. 204

**Aboveground Offset Water or Reclaim Air Release Valve**  
7.3.2 U.T. 206

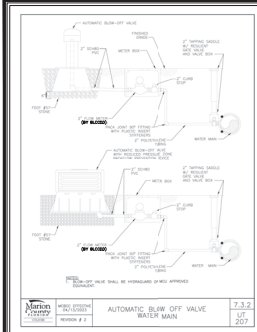
**THOMAS & BROTHERS ENGINEERS, INC.**  
 1720 SE 16TH AVE, SUITE 100, Ocala, FL 34471  
 PHONE: 352-237-1111 FAX: 352-237-1112  
 WWW.TBENGINEERS.COM

**POTABLE WATER DISTRIBUTION DETAILS**

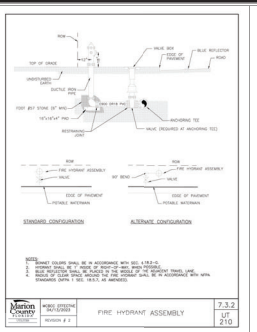
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 DRAWN BY: JAS  
 CHECKED BY: JMM  
 EXAMINED: 11/23/11

SHEET: 11.01

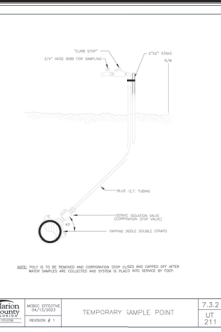
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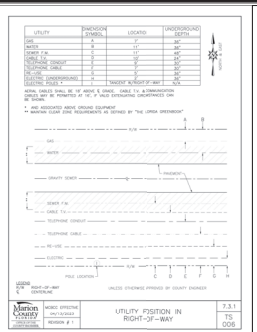
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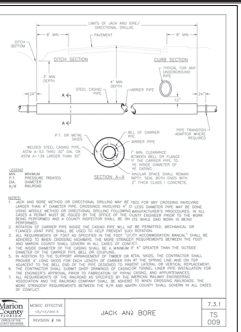
MARION COUNTY ENGINEERING INC. 7.3.3 FIRE HYDRANT ASSEMBLY JLT 2/21



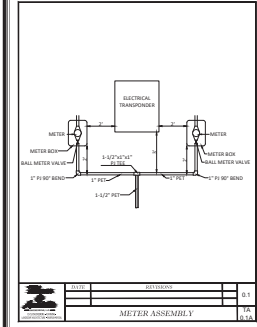
MARION COUNTY ENGINEERING INC. 7.3.4 TEMPORARY SAMPLE POINT JLT 2/21



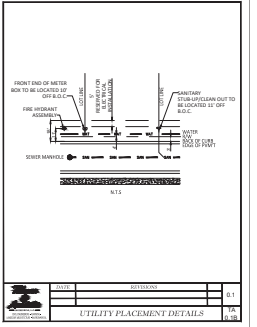
MARION COUNTY ENGINEERING INC. 7.3.1 UTILITY FISSURE IN RIGHT-OF-WAY TS 02/21



MARION COUNTY ENGINEERING INC. 7.3.1 JACK AND BORE TS 02/21



MARION COUNTY ENGINEERING INC. 7.3.1 METER ASSEMBLY TS 02/21



MARION COUNTY ENGINEERING INC. 7.3.1 UTILITY PLACEMENT DETAILS TS 02/21

MARION COUNTY APPROVAL STAMP

MARION COUNTY APPROVAL STAMP

DATE	
BY	
FOR	

MARION COUNTY, FLORIDA  
**POTABLE WATER**  
**DISTRIBUTION DETAILS**

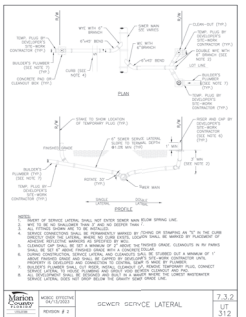
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 DESIGNED BY: MAM

SHEET 11.02

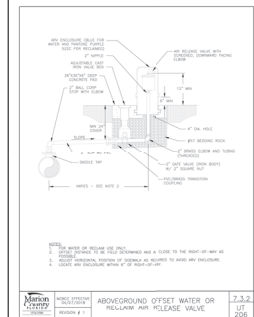
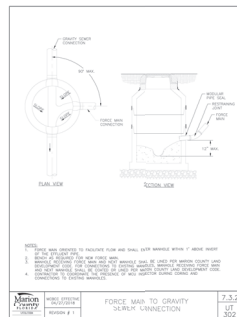
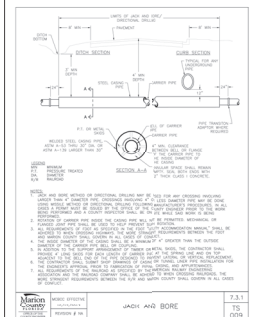
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UTILITY	DEPT.	LOCATION	UNDERGROUND DEPTH
SEWER	WPD	11'	48"
WATER	WPD	11'	48"
TELEPHONE	WPD	11'	48"
POWER	WPD	11'	48"
TELEVISION	WPD	11'	48"
CABLE	WPD	11'	48"
TRASH	WPD	11'	48"
STORM	WPD	11'	48"



**SEWER SERVICE LATERAL**  
 7.3.2  
 15  
 31.2

**UTILITY POSITION IN RIGHT-OF-WAY**  
 7.3.1  
 15  
 006

**WATER AND BORE**  
 7.3.1  
 15  
 009

**FORCE MAIN TO GRAVITY SEWERLY CONNECTION**  
 7.3.2  
 15  
 012

**ABOVEGROUND OFFSET WATER OR FOUWATER AIR RELEASE VALVE**  
 7.3.2  
 15  
 016

MARION COUNTY APPROVAL STAMP

**Thomas & Associates**  
 ENGINEERING, LLC  
 CIVIL ENGINEERING - PLANNING - LANDSCAPE ARCHITECTURE - SURVEILLANCE  
 1720 SE 16th Ave, Box 100, Ocala, FL 34471  
 PHONE: 352-237-0975  
 FAX: 352-237-0976  
 WWW: WWW.THOMASANDASSOCIATES.COM

REVISIONS	
DATE	
PREPARED BY: PLANS DRAWN BY: AS CHECKED BY: JMM FOREMAN: 12-09-10	DATE: 12-02-2010 DRAWN BY: AS CHECKED BY: JMM FOREMAN: 12-09-10
<b>SANITARY SEWER DETAILS</b>	
SHEET 12.02	



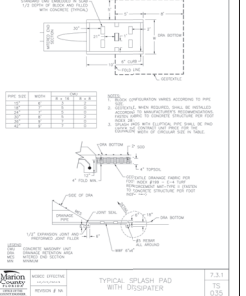
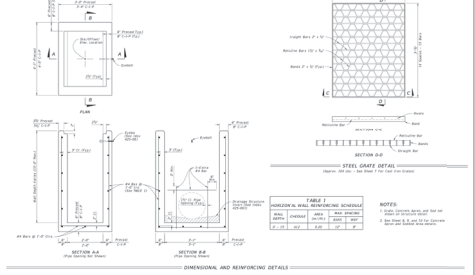
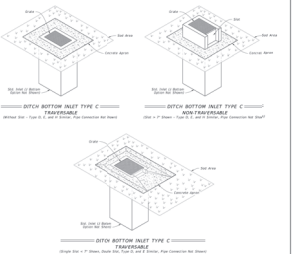


**GENERAL NOTES**

1. SEE PLAN SHEET FOR DIMENSIONS AND NOTES.
2. FINISH OF EXISTING GRADE AND SURFACE TO BE MAINTAINED AT EXISTING FINISH.
3. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.
4. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.
5. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.
6. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.

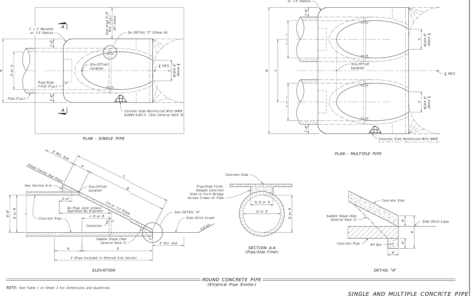
**TABLE OF CONTENTS**

NO.	DESCRIPTION	SHEET NO.
1	GENERAL NOTES	1 OF 6
2	TABLE OF CONTENTS	2 OF 6
3	TABLE 1 - DIMENSIONAL AND REINFORCING DETAILS	3 OF 6
4	TABLE 2 - DIMENSIONAL AND REINFORCING DETAILS	4 OF 6
5	TABLE 3 - DIMENSIONAL AND REINFORCING DETAILS	5 OF 6
6	TABLE 4 - DIMENSIONAL AND REINFORCING DETAILS	6 OF 6



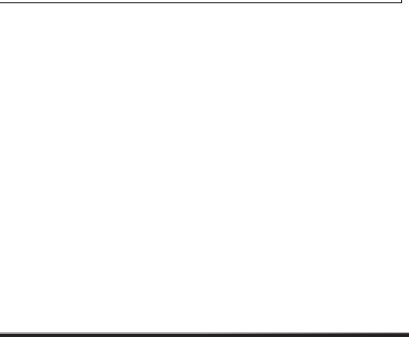
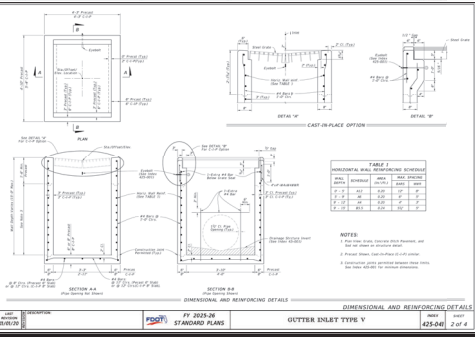
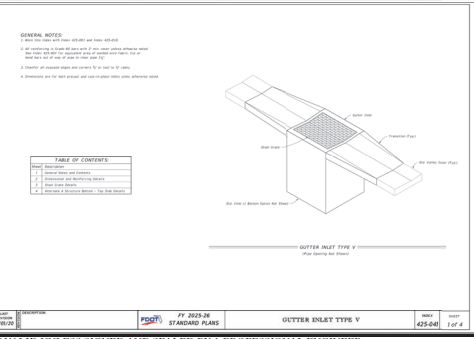
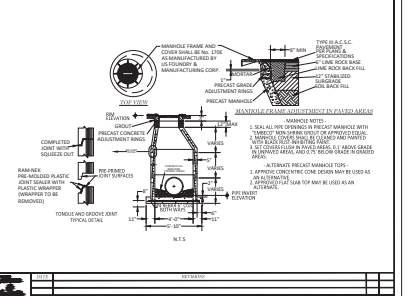
MARION COUNTY APPROVAL STAMP

**Thomas & Associates**  
ENGINEERING, LLC  
1720 SE 16th Ave. Room 100, Ocala, FL 34471  
352-237-2222  
www.thomasandassociates.com



**TABLE 1 - SINGLE AND MULTIPLE CONCRETE PIPE DIMENSIONS AND QUANTITIES**

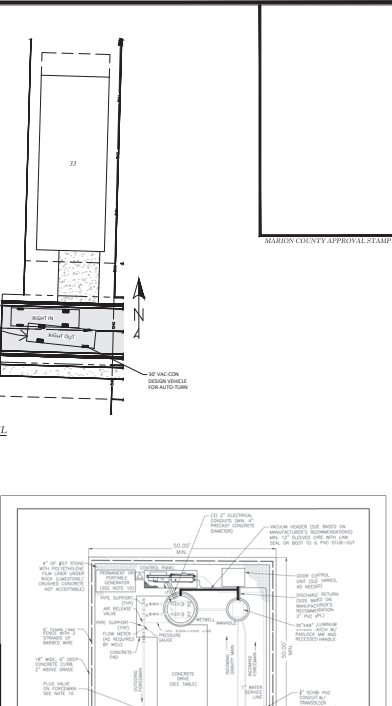
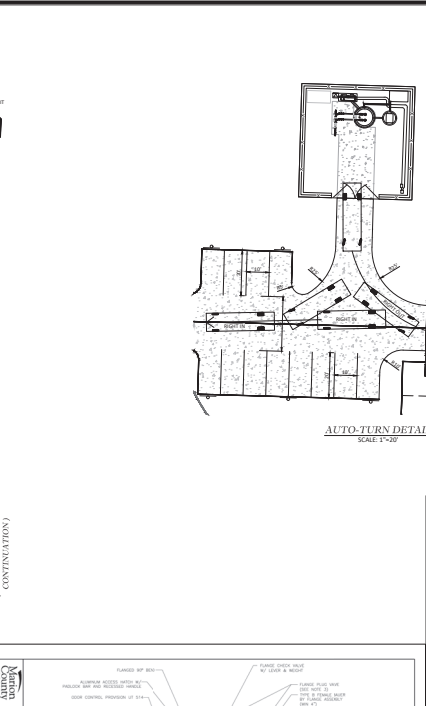
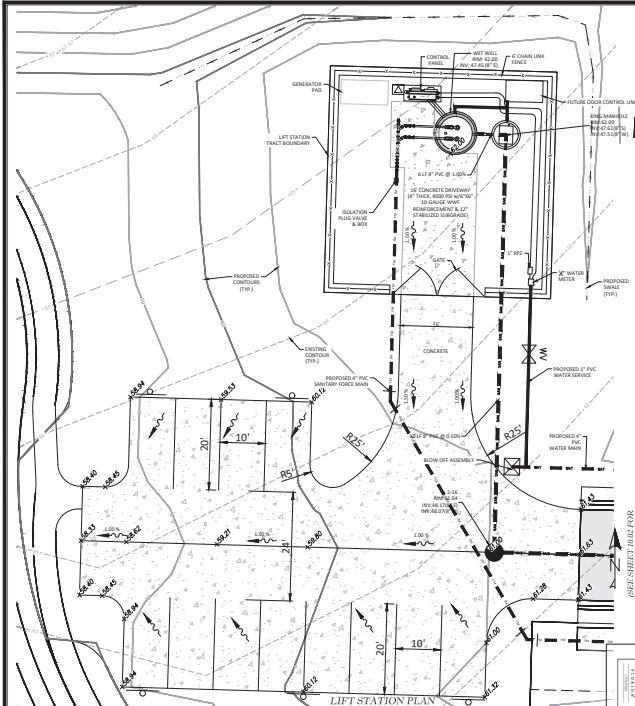
NO.	DESCRIPTION	QUANTITY
1	18" DIA. CONCRETE PIPE (30' LENGTH)	1
2	24" DIA. CONCRETE PIPE (30' LENGTH)	1
3	30" DIA. CONCRETE PIPE (30' LENGTH)	1
4	36" DIA. CONCRETE PIPE (30' LENGTH)	1
5	42" DIA. CONCRETE PIPE (30' LENGTH)	1
6	48" DIA. CONCRETE PIPE (30' LENGTH)	1
7	54" DIA. CONCRETE PIPE (30' LENGTH)	1
8	60" DIA. CONCRETE PIPE (30' LENGTH)	1
9	66" DIA. CONCRETE PIPE (30' LENGTH)	1
10	72" DIA. CONCRETE PIPE (30' LENGTH)	1



REVISIONS

DATE: 11/22/2023  
DRAWN BY: AS  
CHECKED BY: JLM  
ISSUED: 11/22/2023

PROJECT NO. 24-010  
SHEET 14 OF 20



**WASTEWATER PUMP STATION SPECIFICATIONS**

**GENERAL NOTES:**

- CONCRETE FINISHES BETWEEN FINISH AND UN-INSULATED EQUIPMENT SHALL BE 1/2\"/>

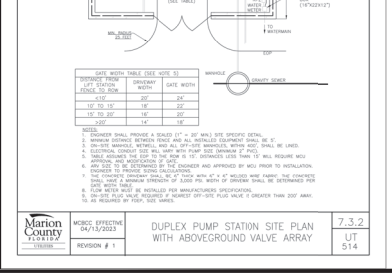
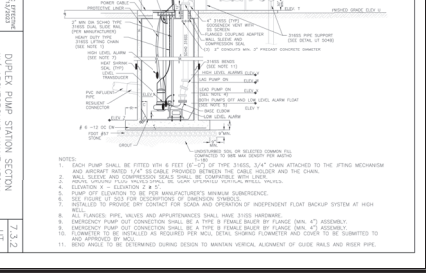
**MANUFACTURER:** SUEZ  
**MODEL:** 50P 50 V  
**WELL:** 50 V  
**WELL:** 50 V  
**DISCHARGE SIZE:** 3.50"

**WET WELL:** 85.5 HET TON  
**HEAD CONDITION:** 85.5 L 50 V 40 TON TON

DESCRIPTION	CONSD.	DIMENSION	ELEVATION
THICKNESS OF WALL	A	8"	—
THICKNESS OF WET WELL	B	8"	—
WIDTH OF BOTTOM FLAT	C	SEE NOTE 1	—
OD OF WET WELL TO OD OF PIPES	D	SEE NOTE 1	—
LENGTH OF PUMP ACCESS OPENING	E	SEE NOTE 1	—
WIDTH OF PUMP ACCESS OPENING	F	SEE NOTE 1	—
LENGTH OF WET WELL TO FACE OF SWITCH	G	SEE NOTE 1	—
THICKNESS OF WETWELL BASE	H	12"	—
TOP OF WET WELL	I	—	52.00
PROPOSED GRADE	J	—	52.00
INVERT ELEVATION	K	—	45.50
WELL PUMP ON	L	—	45.50
LOAD PUMP ON	M	—	45.50
TOP OF FLOOR OF PUMP ACCESS	N	—	45.50
BOTTOM OF PUMP TO TOP OF WET WELL	O	—	—
STEP HEIGHT (IF REQUIRED)	P	—	—
FACE OF WET WELL	Q	—	41.00

**MANUFACTURER'S REQUIREMENTS:**

- ELEVATION 42.52 AS A MINIMUM OF ABOVE THE 100 YEAR FLOOD ELEVATION AND THE 100 YEAR FLOOD ELEVATION OF THE BASIN.
- CONCRETE SHALL BE USED FOR ALL STRUCTURES AND UTILITY.
- LOADING AND UNLOADING SHALL BE PROVIDED.
- BATTERY BACKUP FOR ACCESS ALARM AND WARNING LIGHT SHALL BE PROVIDED.



**THOMAS & Associates**  
**ENGINEERS, INC.**  
 1720 SE 10th Ave, Room 100, Ocala, FL 34471  
 OFFICE: 352-237-7975  
 FAX: 352-237-7976

**MARION COUNTY APPROVAL STAMP**

**REVISIONS**

NO.	DATE	DESCRIPTION
1	04/17/2023	ISSUE FOR PERMIT
2	04/17/2023	ISSUE FOR PERMIT
3	04/17/2023	ISSUE FOR PERMIT
4	04/17/2023	ISSUE FOR PERMIT
5	04/17/2023	ISSUE FOR PERMIT
6	04/17/2023	ISSUE FOR PERMIT
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49	04/17/2023	ISSUE FOR PERMIT
50	04/17/2023	ISSUE FOR PERMIT

**DATE:** 04/17/2023  
**DRAWN BY:** AS  
**CHECKED BY:** MM  
**FOREMAN:** 24-9910

**MARION COUNTY, FLORIDA**

**LIFT STATION DETAILS**

**7.3.2**  
**UT**  
**514**

**15.01**

<p><b>FIGURE 100</b> GAVIC DRY-RAM ASSEMBLY</p> <p>NOTES: 1. THIS ASSEMBLY IS TO BE USED WITH THE GAVIC DRY-RAM ASSEMBLY ONLY. 2. THE GAVIC DRY-RAM ASSEMBLY IS TO BE USED WITH THE GAVIC DRY-RAM ASSEMBLY ONLY. 3. THE GAVIC DRY-RAM ASSEMBLY IS TO BE USED WITH THE GAVIC DRY-RAM ASSEMBLY ONLY.</p> <p>7.3.2 LIT 504.1</p>	<p><b>FIGURE 101</b> SLOTTED PIPE SUPPORT</p> <p>NOTES: 1. ALL METAL PIPES FOR PIPE SUPPORT SHALL BE 316 STAINLESS STEEL. 2. THIS MAY BE USED FOR WATER.</p> <p>7.3.2 LIT 504.8</p>	<p><b>FIGURE 102</b> COVER AND DOOR GROUNDING</p> <p>NOTES: 1. ALL METAL PARTS SHALL BE 316 STAINLESS STEEL. 2. ALL ELECTRICAL CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC).</p> <p>7.3.2 LIT 506</p>	<p><b>FIGURE 103</b> GROUND TEST ENCLOSURE</p> <p>NOTES: 1. ALL METAL PARTS SHALL BE 316 STAINLESS STEEL. 2. ALL ELECTRICAL CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC).</p> <p>7.3.2 LIT 507</p>	<p><b>FIGURE 104</b> HVDC BIDD ASSEMBLY</p> <p>NOTES: 1. THIS ASSEMBLY IS TO BE USED WITH THE HVDC BIDD ASSEMBLY ONLY. 2. THE HVDC BIDD ASSEMBLY IS TO BE USED WITH THE HVDC BIDD ASSEMBLY ONLY.</p> <p>7.3.2 LIT 508</p>	<p>MARION COUNTY APPROVAL STAMP</p>	<p><b>Thomas &amp; Associates</b> ENGINEERS INC. LLC 1720 SE 8th Ave Bldg 100, Ocala, FL 34471 OFFICE: 352-237-7975 FAX: 352-237-7976</p>
<p><b>FIGURE 105</b> SERVICE FEDESTAL</p> <p>NOTES: 1. THIS ASSEMBLY IS TO BE USED WITH THE SERVICE FEDESTAL ONLY. 2. THE SERVICE FEDESTAL IS TO BE USED WITH THE SERVICE FEDESTAL ONLY.</p> <p>7.3.2 LIT 509</p>	<p><b>FIGURE 106</b> SERVICE FEDESTAL</p> <p>NOTES: 1. THIS ASSEMBLY IS TO BE USED WITH THE SERVICE FEDESTAL ONLY. 2. THE SERVICE FEDESTAL IS TO BE USED WITH THE SERVICE FEDESTAL ONLY.</p> <p>7.3.2 LIT 509</p>	<p><b>FIGURE 107</b> LIFT STATION WATER SERVICE AND PRESSURE TRANSDUCER ASSEMBLY</p> <p>NOTES: 1. ALL METAL PARTS SHALL BE 316 STAINLESS STEEL. 2. ALL ELECTRICAL CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC).</p> <p>7.3.2 LIT 510.3</p>	<p><b>FIGURE 108</b> DUPLEX PUMP STATION PLAN W/ ABOVEGROUND VALVE ARRAY</p> <p>NOTES: 1. ALL METAL PARTS SHALL BE 316 STAINLESS STEEL. 2. ALL ELECTRICAL CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC).</p> <p>7.3.2 LIT 510</p>	<p><b>FIGURE 109</b> DUPLEX PUMP STATION GROUNDING W/ ABOVEGROUND VALVE ARRAY (TYPICAL)</p> <p>NOTES: 1. ALL METAL PARTS SHALL BE 316 STAINLESS STEEL. 2. ALL ELECTRICAL CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC).</p> <p>7.3.2 LIT 511</p>	<p>MARION COUNTY APPROVAL STAMP</p>	<p><b>Thomas &amp; Associates</b> ENGINEERS INC. LLC 1720 SE 8th Ave Bldg 100, Ocala, FL 34471 OFFICE: 352-237-7975 FAX: 352-237-7976</p>
<p><b>FIGURE 110</b> SERVICE FEDESTAL</p> <p>NOTES: 1. THIS ASSEMBLY IS TO BE USED WITH THE SERVICE FEDESTAL ONLY. 2. THE SERVICE FEDESTAL IS TO BE USED WITH THE SERVICE FEDESTAL ONLY.</p> <p>7.3.2 LIT 511</p>		<p><b>FIGURE 111</b> SERVICE FEDESTAL</p> <p>NOTES: 1. THIS ASSEMBLY IS TO BE USED WITH THE SERVICE FEDESTAL ONLY. 2. THE SERVICE FEDESTAL IS TO BE USED WITH THE SERVICE FEDESTAL ONLY.</p> <p>7.3.2 LIT 511</p>		<p>MARION COUNTY APPROVAL STAMP</p>		<p><b>Thomas &amp; Associates</b> ENGINEERS INC. LLC 1720 SE 8th Ave Bldg 100, Ocala, FL 34471 OFFICE: 352-237-7975 FAX: 352-237-7976</p>

NOT VALID UNLESS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER

**Thomas & Associates**  
ENGINEERS INC. LLC  
1720 SE 8th Ave Bldg 100, Ocala, FL 34471  
OFFICE: 352-237-7975  
FAX: 352-237-7976

**LIFT STATION DETAILS**

DATE: 4/22/2024  
DRAWN BY: AS  
CHECKED BY: JMM  
JOB NO.: 24-0910

SHEET 15.02

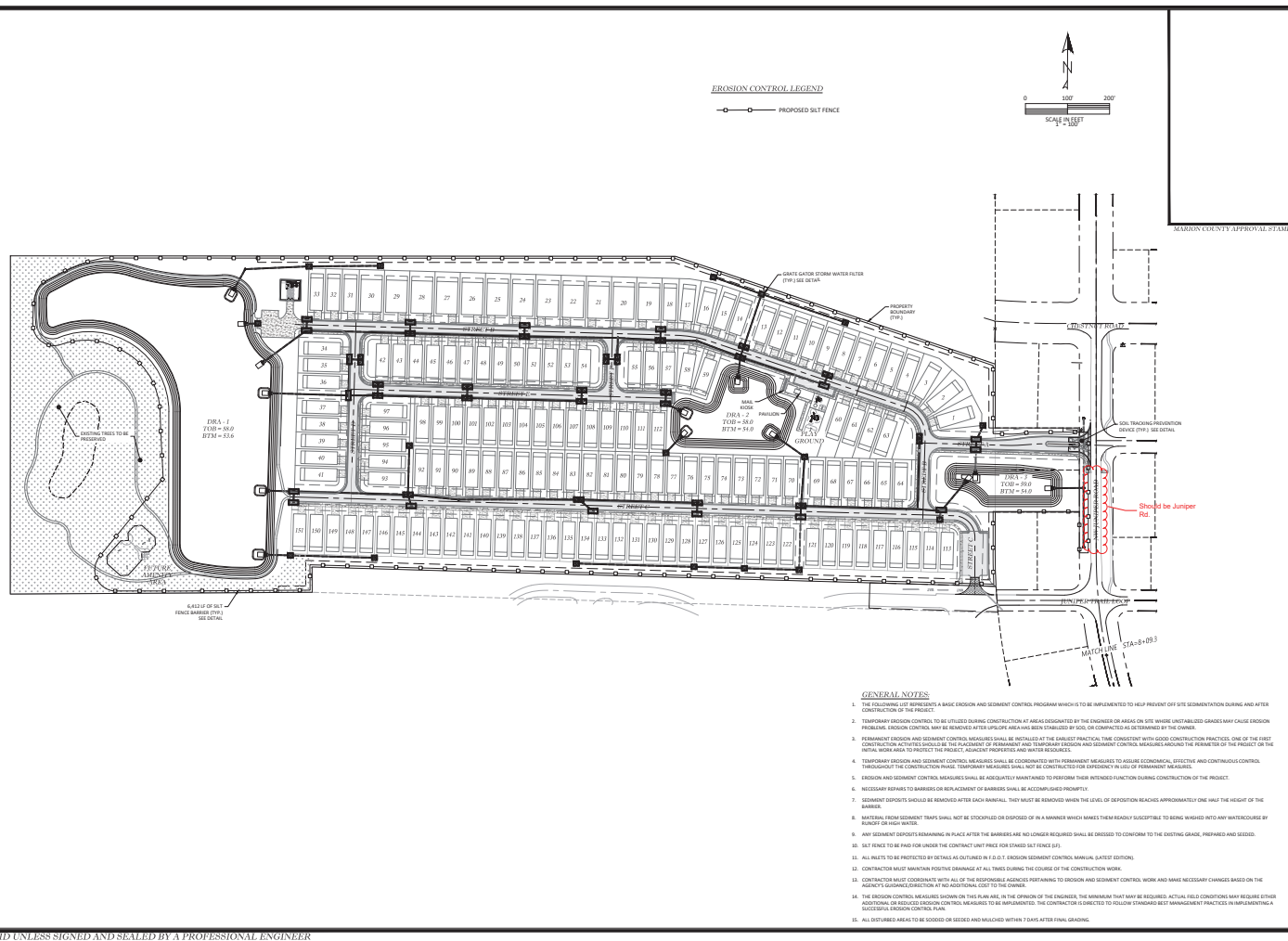


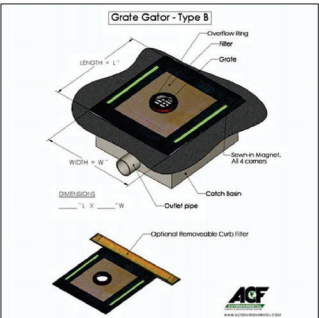
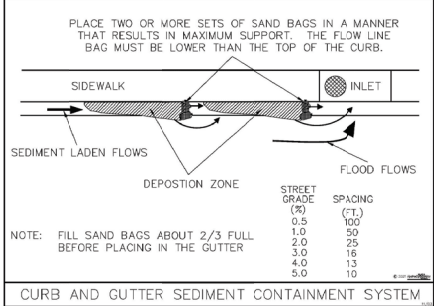
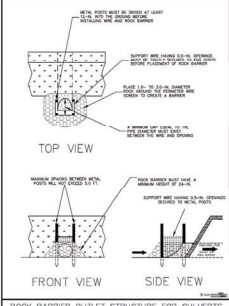
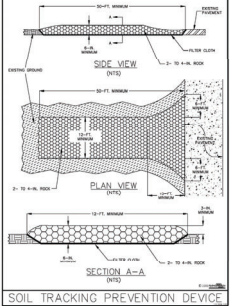
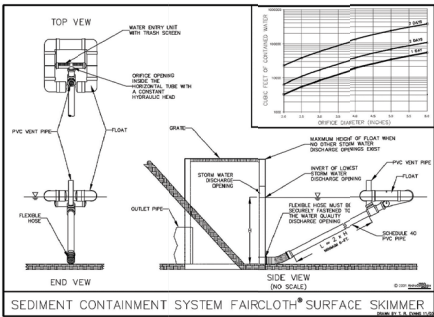
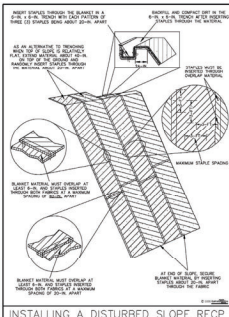
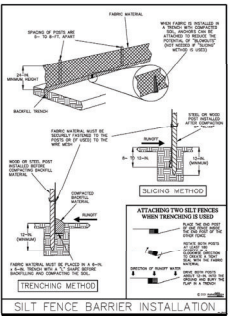
REVISIONS	DATE

IMPROVEMENT PLANS  
 HEATHERWOOD  
 MARION COUNTY, FLORIDA  
**EROSION CONTROL PLAN**

DATE	8/22/2018
DRAWN BY	AS
CHECK BY	JMM
JOB NO.	18-010

SHEET **17.01**





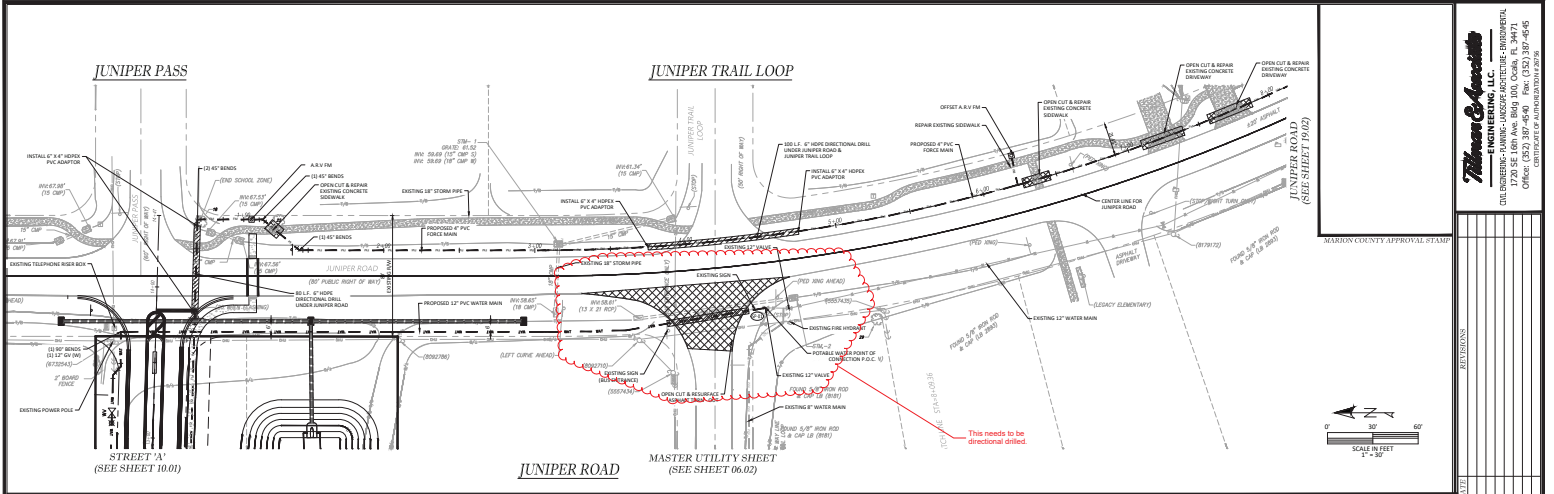
MARION COUNTY APPROVAL STAMP

**Thompson Engineering, LLC**  
 ENGINEERING, LLC  
 1720 SE 18th Ave. Box 100, Ocala, FL 34471  
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 352.237.1114  
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 352.237.1127  
 352.237.1128  
 352.237.1129  
 352.237.1130

IMPROVEMENT PLANS  
 MARION COUNTY, FLORIDA  
**EROSTON CONTROL**  
 DETAILS

DATE: 11/23/2020  
 DRAWN BY: AS  
 CHECK BY: JMA  
 JOB NO: 20-0910

SHEET: 18.01



MARRION COUNTY APPROVAL STAMP

SCALE IN FEET  
 1" = 30'

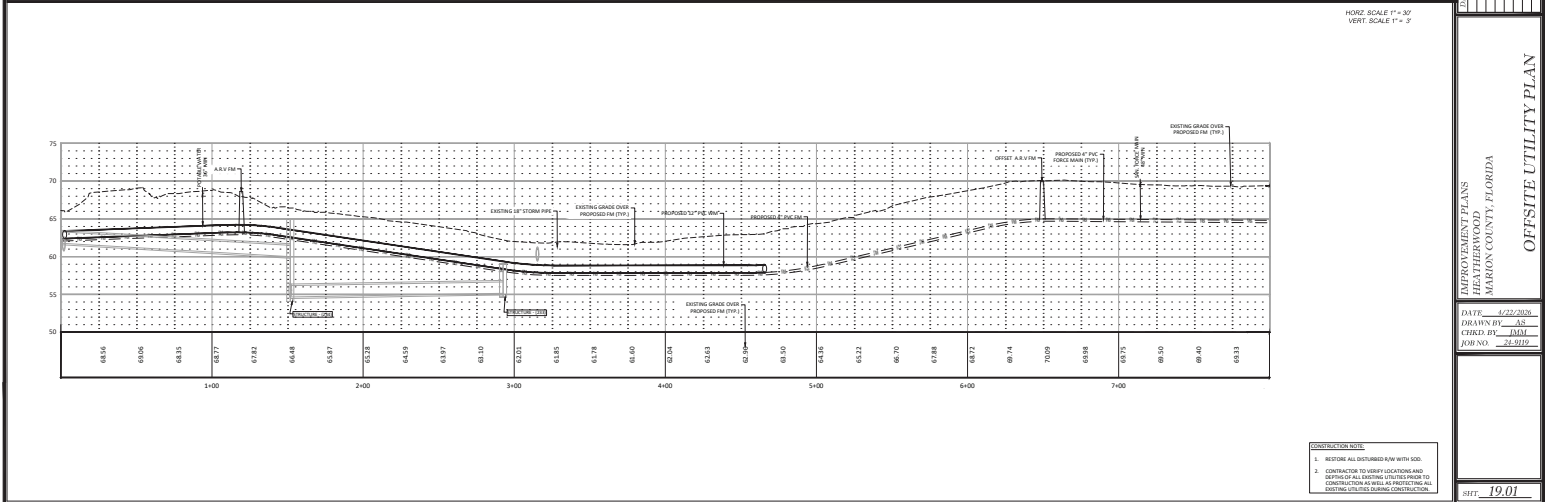
HORIZ SCALE 1" = 30'  
 VERT SCALE 1" = 5'

**Thomas & Associates**  
**ENGINEERING, LLC**  
 1720 SE 18th Ave, 18th Floor, Coral Gables, FL 33137  
 PHONE: (305) 441-4600  
 FAX: (305) 441-4601  
 WWW: www.thomasandassociates.com

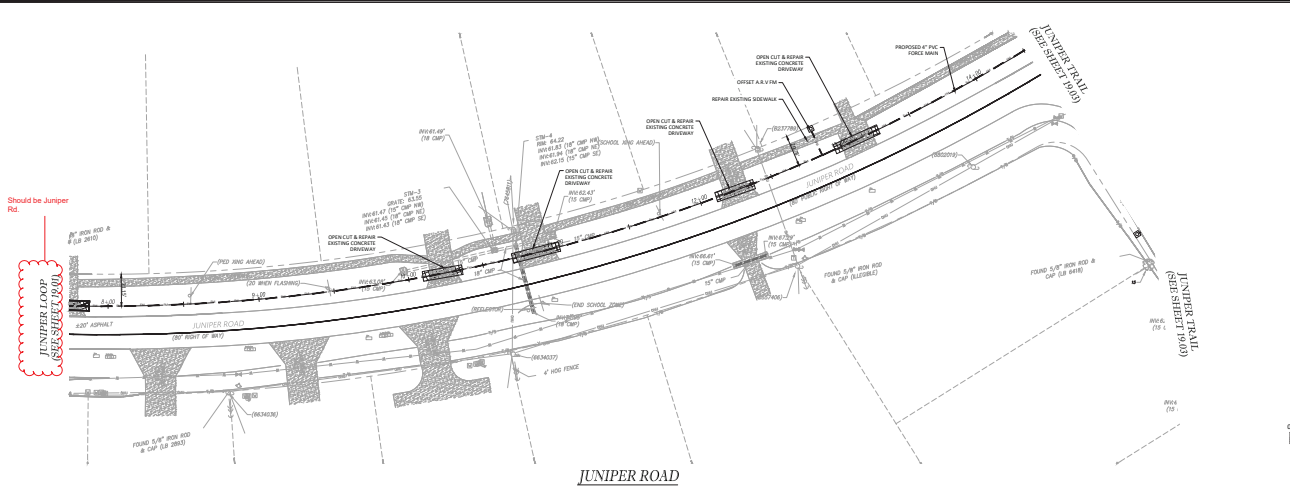
MARRION COUNTY PLANS  
 HATHERWOOD  
 MARRION COUNTY, FLORIDA

DATE: 02/22/2010  
 DRAWN BY: JAS  
 CHECKED BY: JLM  
 JOB NO.: 10-0010

SHEET 19.01



S:\Marrion County\DR Number: Juniper Loop\B4 Chestnut Hill PUD\VALVE\CONSTRUCTION\19.01-19.03 OFFSITE UTILITIES.dwg, 4/22/2010 11:14 AM, AutoCAD PDF (General Documentation).plotted



Should be Juniper Rd.

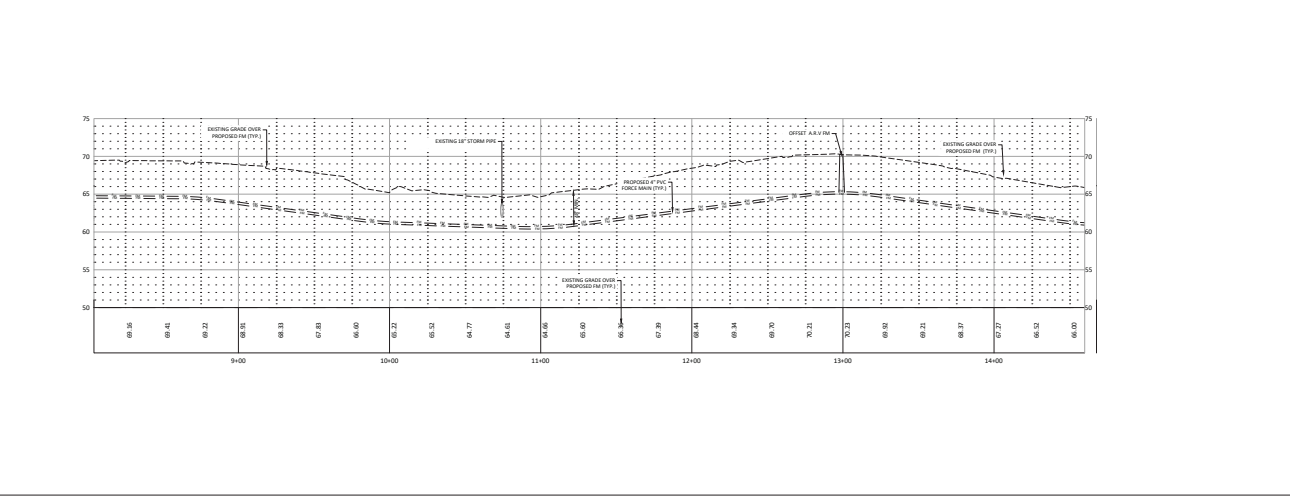
MARION COUNTY APPROVAL STAMP

REVISIONS

SCALE IN FEET  
1" = 30'

HORIZ. SCALE 1" = 30'  
VERT. SCALE 1" = 7'

**Thomas & Associates**  
ENGINEERING, L.L.C.  
1720 SE 18th Ave, 18th Floor, Coral Gables, FL 33134  
OFFICE: (305) 442-4600  
CELL: (305) 442-4600



CONSTRUCTION NOTES

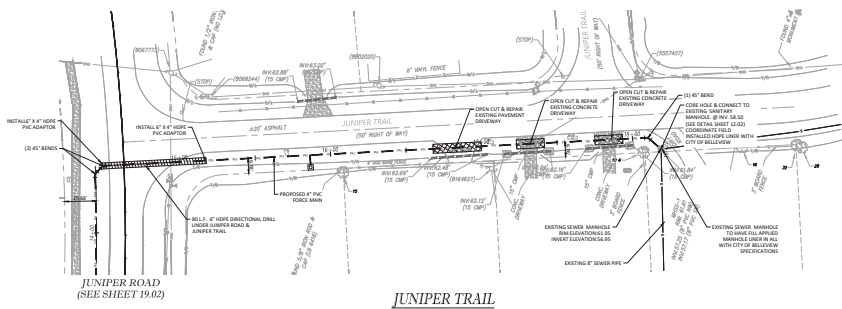
- RESTORE ALL DISTURBED AREA WITH SOG.
- CONTRACTOR TO VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AS WELL AS PROTECTING ALL EXISTING UTILITIES DURING CONSTRUCTION.

MARION COUNTY PLANS  
HEATHERWOOD  
MARION COUNTY, FLORIDA

DATE: 1/22/2010  
DRAWN BY: JAS  
CHECKED BY: JMM  
JOB NO.: 10-001

OFFSITE UTILITY PLAN

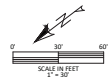
SHEET 19.02



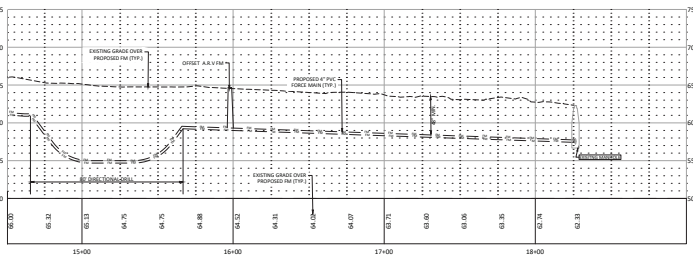
JUNIPER ROAD  
(SEE SHEET 19.02)

JUNIPER TRAIL

MARION COUNTY APPROVAL STAMP



HORIZ SCALE 1" = 30'  
VERT SCALE 1" = 7'



**CONSTRUCTION NOTE**

1. REMOVE ALL UTILITIES SHOWN WITH DASH.
2. CONTRACTOR TO VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AS WELL AS PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION.

**Thomas & Associates**  
ENGINEERING, L.L.C.  
CONSULTING - PLANNING - DESIGN - INSPECTION - ENVIRONMENTAL  
1720 SE 18TH AVE. 33609 DOL, Ocala, FL 34071  
OFFICE: 352-237-4900  
CELL: 352-237-4900  
FAX: 352-237-4900  
CONTRACT NO. 14MR0000000252

REVISIONS	
DATE	
DESCRIPTION	
DATE	
DESCRIPTION	
DATE	
DESCRIPTION	
DATE	
DESCRIPTION	
DATE	
DESCRIPTION	

**OFFSITE UTILITY PLAN**

MARION COUNTY, FLORIDA

DATE: 12/22/2010  
DRAWN BY: JAS  
CHECKED BY: JMM  
JOB NO: 14MR0000000252

SHEET **19.03**



**TREES TO RETAIN**

ID	TYPE	DBH	DBH
1739	OKA	25	
1740	OKA	47	
1707	OKA	31	
1706	OKA	23	
1702	OKA	35	
1700	OKA	24	
1698	OKA	15	
1696	OKA	34	
1693	PNE	25	
1692	PNE	25	
1688	OKA	38	
1685	OKA	57	
1681	OKA	38	
1677	OKA	32	
1674	OKA	40	
1671	OKA	35	
1668	OKA	35	
1665	OKA	40	
1661	OKA	48	
1658	OKA	20	
1655	OKA	25	
1653	OKA	25	
1650	OKA	32	
1647	OKA	35	
1643	OKA	43	
1640	OKA	34	
1632	OKA	37	
1617	OKA	37	
1614	OKA	59	
1611	OKA	46	
1607	OKA	45	
1605	OKA	40	
1599	OKA	32	
1596	OKA	52	
1590	OKA	35	
1586	OKA	42	
1583	OKA	48	
1578	OKA	27	
1576	OKA	21	
1574	OKA	21	
1572	OKA	38	
1563	OKA	14	
1560	PNE	13	
1556	PNE	15	

**TREES TO RETAIN**

ID	TYPE	DBH	DBH
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1550	PNE	18	
1536	PNE	12	
1532	PNE	12	
1529	PNE	19	
1526	PNE	10	
1500	OKA	28	
1498	OKA	23	
1495	OKA	25	
1492	OKA	21	
1489	OKA	21	
1485	OKA	49	
1481	OKA	65	
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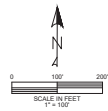
**TREES TO EXCLUDE**

ID	TYPE	DBH	DBH
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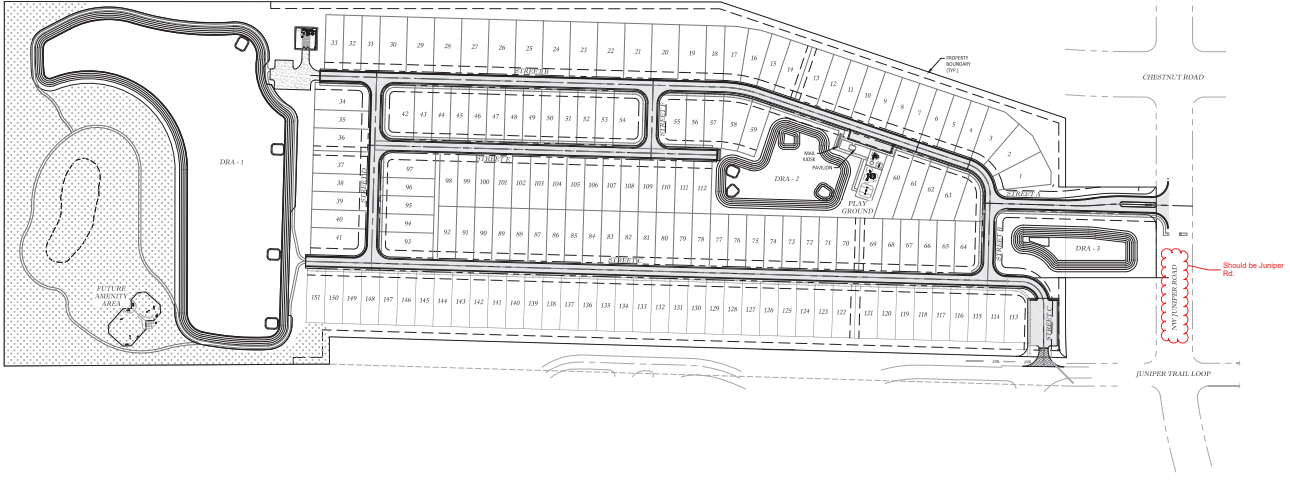
Road names have not been issued due to the fact the CAD file that was submitted does not have street centerline or lot/tract data. Please resubmit CAD.

**ROAD NAME LEGEND**

IMPROVEMENT PLAN STREET NAME	MARION COUNTY STREET NAME
STREET 'A'	N/A
STREET 'B'	N/A
STREET 'C'	N/A
STREET 'D'	N/A
STREET 'E'	N/A
STREET 'F'	N/A



MARION COUNTY APPROVAL STAMP



**Thomas Co. Associates**  
**ENGINEERING, LLC**  
 CIVIL ENGINEERING - PLANNING - LANDSCAPE ARCHITECTURE - ENVIRONMENTAL  
 1720 SE 18th Ave., Bldg. 100, COVINGTON, FL 32041  
 OFFICE: 904.237.0000 FAX: 904.237.0001  
 EMAIL: INFO@THOMASCOASSOCIATES.COM

DATE	REVISION

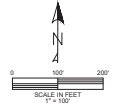
DESIGNED BY: JANS  
 DRAWN BY: AS  
 CHECKED BY: JMM  
 DATE: 4/22/2010  
 SHEET NO.: 24-0212-1

**RN-01-91I MANAGEMENT PLAN**

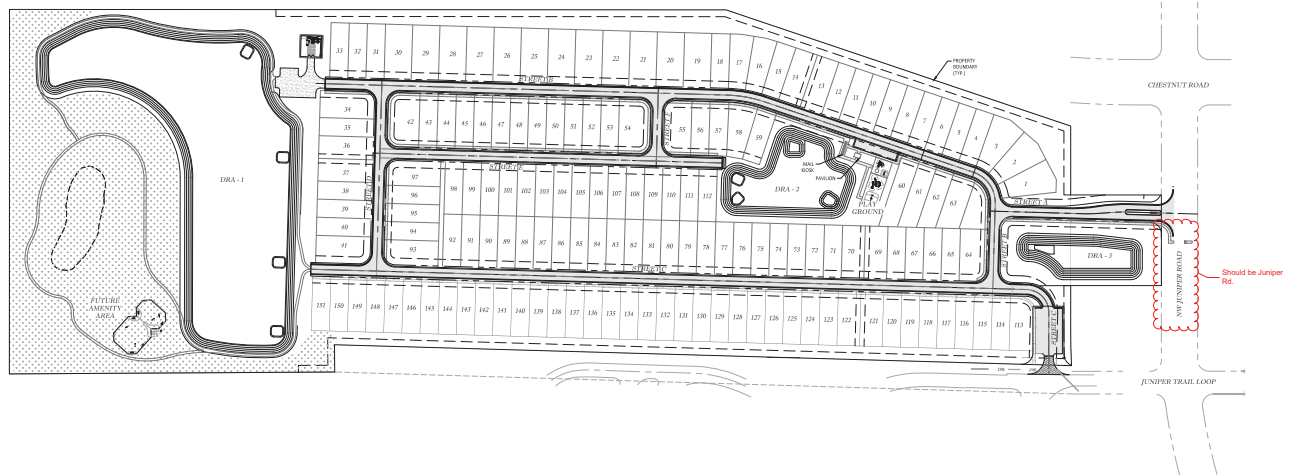
SHEET: **RN-01**

<b>IRRIGATION SLEEVE SCHEDULE</b> (1) 1" SCH 40 PIP SLEEVE (2) 1" SCH 40 PIP SLEEVE (3) 1" SCH 40 PIP SLEEVE	<b>ELECTRIC SLEEVE SCHEDULE (EQUIV)</b> (1) 2" SCH 40 PIP SLEEVE (2) 2" SCH 40 PIP SLEEVE (3) 2" SCH 40 PIP SLEEVE
<b>NATURAL GAS SLEEVE SCHEDULE (EQUIV)</b> (1) 1" SCH 40 PIP SLEEVE	<b>TELEPHONE/CABLE/INTERNET SLEEVE SCHEDULE (EQUIV)</b> (1) 2" SCH 40 PIP SLEEVE (2) 2" SCH 40 PIP SLEEVE (3) 2" SCH 40 PIP SLEEVE

	IRRIGATION SLEEVE
	1000 PSI PIPE
	600 PSI PIPE
	300 PSI PIPE



MARION COUNTY'S APPROVAL STAMP



**Williams & Associates**  
ENGINEERING, LLC

CIVIL ENGINEERING - PLANNING - LANDSCAPE ARCHITECTURE - ENVIRONMENTAL  
1720 SE 16TH AVE. #500, LDO, Ocala, FL 32671  
PHONE: 352.237.1500 FAX: 352.237.1501  
WWW.WILLIAMSANDASSOCIATES.COM

REVISIONS	
DATE	

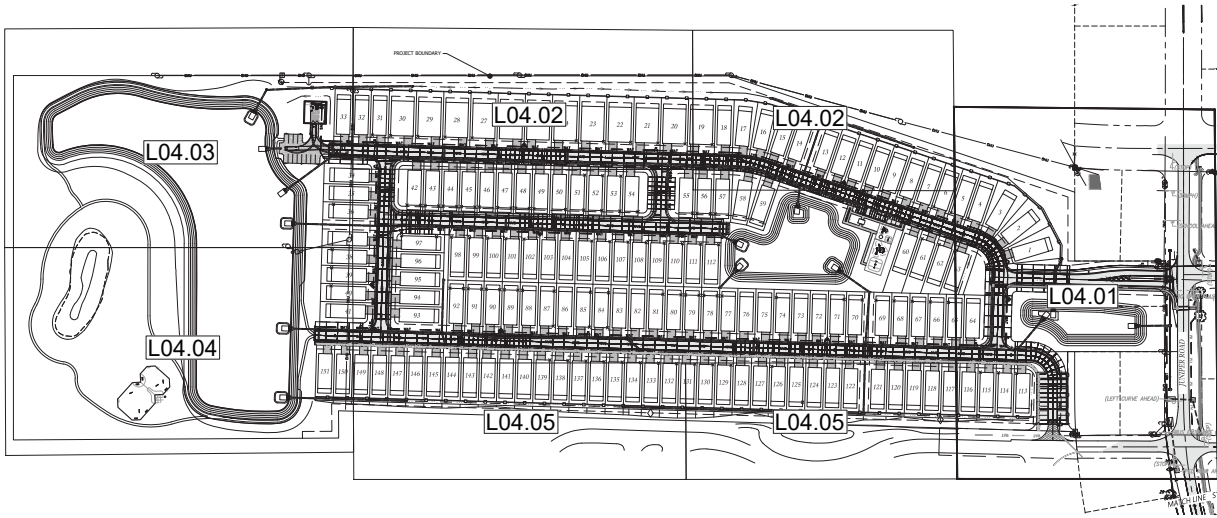
**SL-01-SLEEVE PLAN**

MARRIOTT RESORTS & SPAS  
HILTIERWOOD  
MARION COUNTY, FLORIDA

DATE: 1/22/2019  
DRAWN BY: JLS  
CHECKED BY: DMV  
JOB NO: 135019

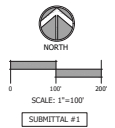
SHEET **SL-01**

NOT VALID UNLESS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER



**INDEX OF  
LANDSCAPE SHEETS**

L01.01	LANDSCAPE INDEX
L02.01	PLANTING SPECIFICATIONS
L03.01	PLANT SCHEDULE & NOTES
L04.01-L04.05	PLANTING PLAN
L05.01	PLANTING DETAILS
L06.01	MEIA
IR03.01	IRRIGATION SCHEDULE & NOTES
IR04.01-IR04.05	IRRIGATION PLAN
IR05.01-IR05.02	IRRIGATION DETAILS



**William & Associates**  
ENGINEERING, LLC  
CIVIL ENGINEERING • PLANNING • LANDSCAPE ARCHITECTURE • ENVIRONMENTAL  
1000 W. UNIVERSITY BLVD., SUITE 100  
GAINESVILLE, FL 32609-4400    TEL: (352) 330-4400    FAX: (352) 330-4405

REVISIONS	
DATE	
DRAWN BY	
CHECKED BY	
JOB NO.	

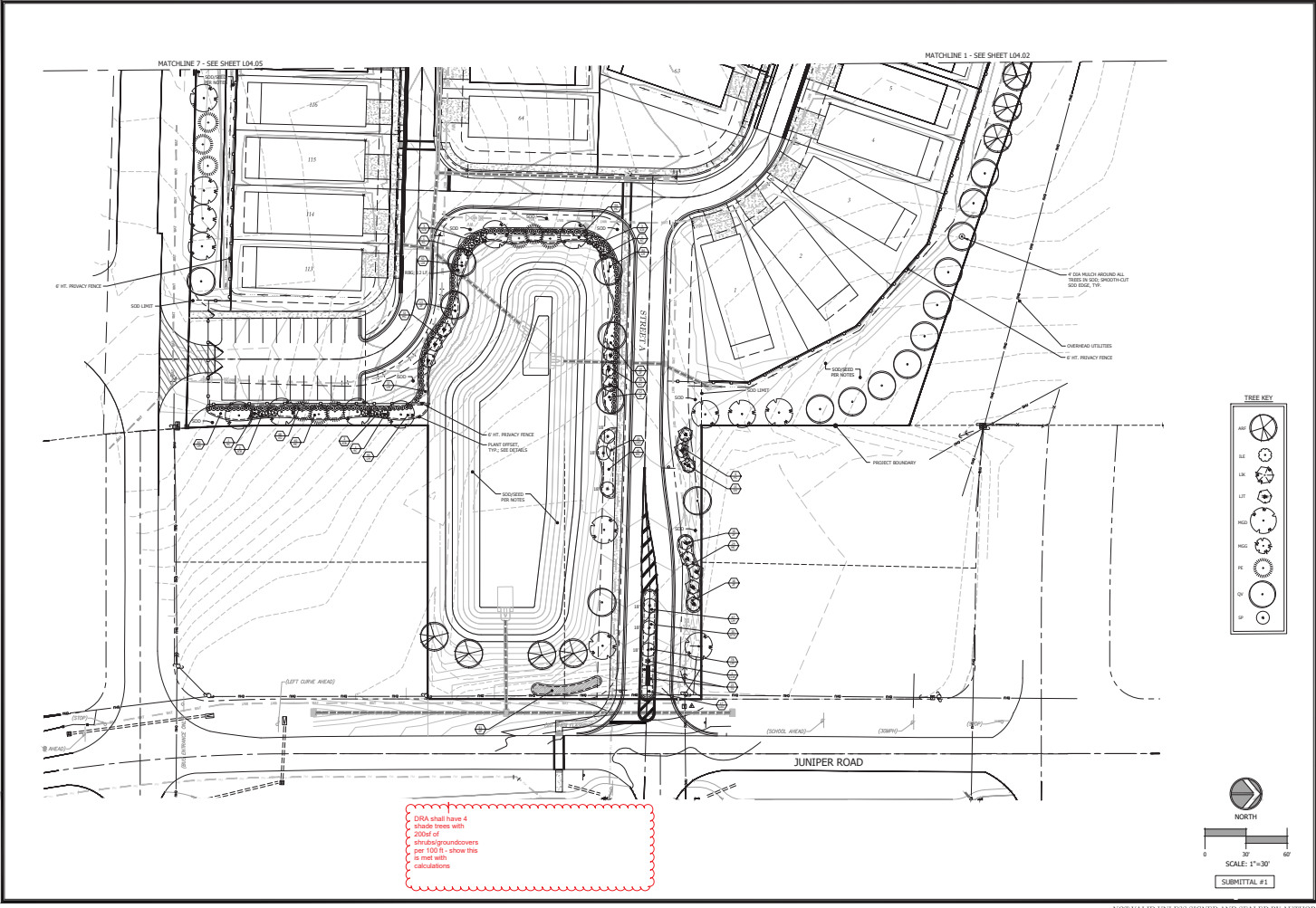
**LANDSCAPE INDEX**

SUBMITTAL #1

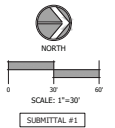
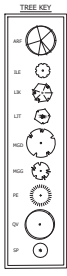
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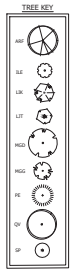
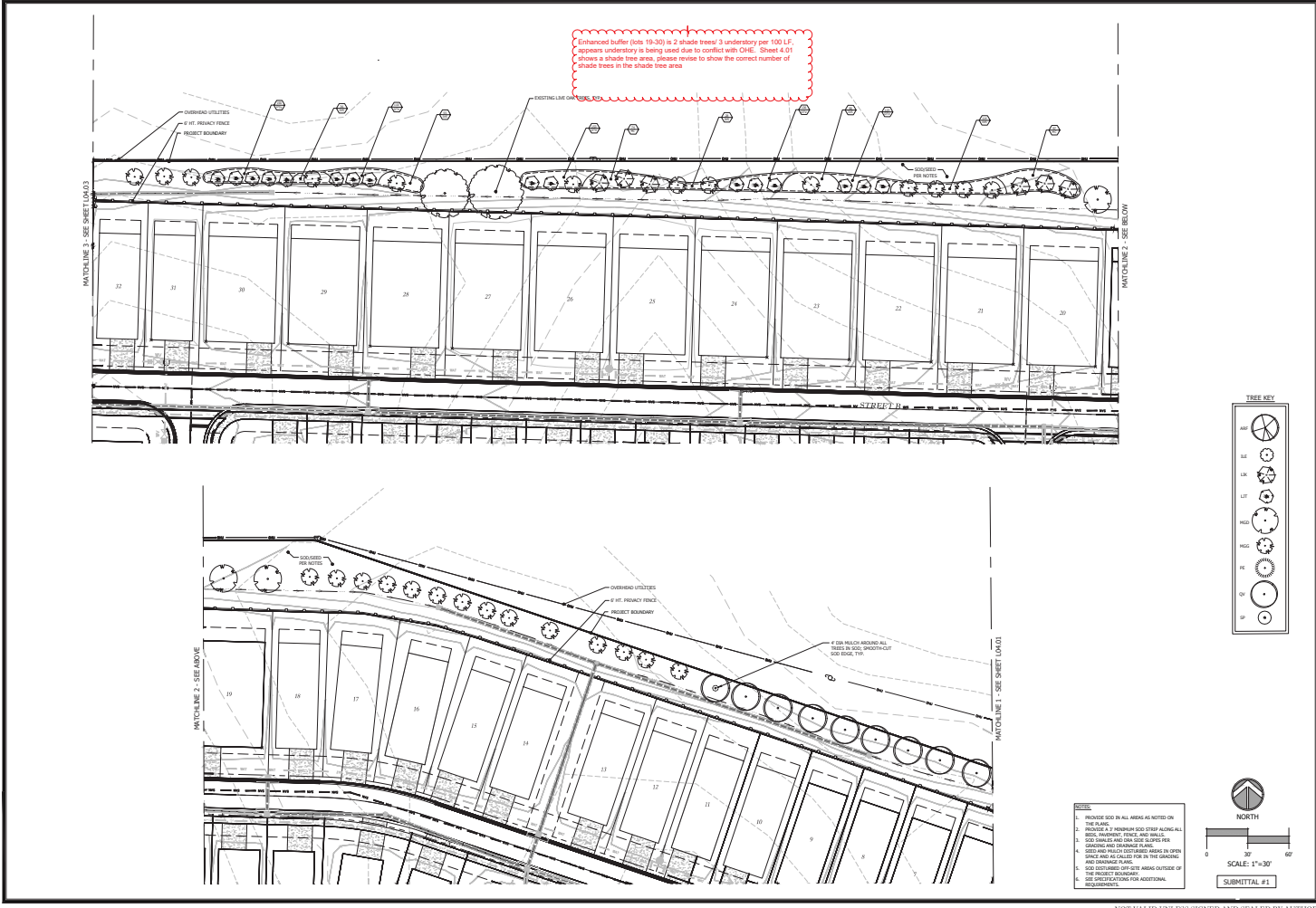


DRA shall have 4 shade trees with 2000 sq ft shrubs/groundcovers per 100 sq ft - show this in sheet with calculations

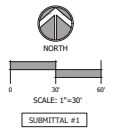


**Williams & Associates**  
**ENGINEERING, LLC**  
 CIVIL ENGINEERING - PLANNING - LANDSCAPE ARCHITECTURE - ENVIRONMENTAL  
 OFFICE: (352) 387-4900 FAX: (352) 387-4915

IMPROVEMENT PLANS HEATHERWOOD MARION COUNTY, FLORIDA	<b>PLANTING PLAN</b>
DATE: 4/15/2016 DRAWN BY: SM CHECK BY: SM JOB NO: 16-0112	
	<b>L.04.01</b>



- NOTES**
1. PROVIDE SOD IN ALL AREAS AS NOTED ON THE PLAN.
  2. PROVIDE 2" MINIMUM SOD DEEP ALONG ALL SOIL, PRIVACY FENCE, AND DRIVEWAY.
  3. SOIL SHALL BE 2" MINIMUM SOD DEEP ALONG ALL DRIVEWAY AND DRIVEWAY FENCE.
  4. SOIL AND FERTILIZER SHALL BE APPLIED TO ALL AREAS AS NOTED ON THE PLAN.
  5. SOIL NOTED OFF-LOT AREAS OUTSIDE OF THE PROJECT BOUNDARY.
  6. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.



**William & Associates**  
ENGINEERING, LLC

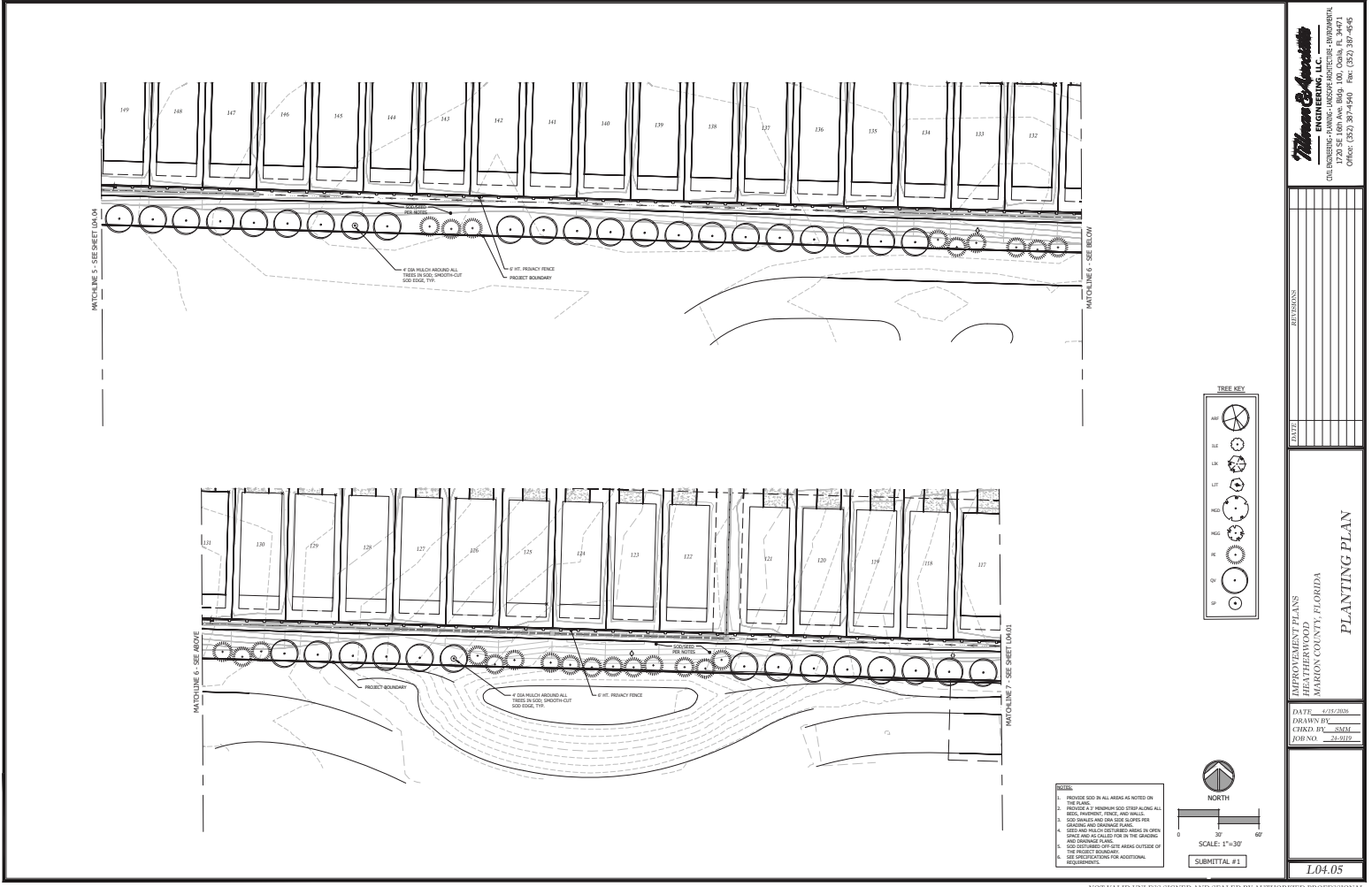
CIVIL ENGINEERING - PLANNING - LANDSCAPE ARCHITECTURE - ENVIRONMENTAL  
1000 W. UNIVERSITY AVENUE, SUITE 100, GAITHERSBURG, MD 20878  
PHONE: (301) 337-4500 FAX: (301) 337-4545

IMPROVEMENT PLANS HEATHERWOOD MARRION COUNTY, FLORIDA	PLANTING PLAN
DATE: 4/15/2024	DRAWN BY: JSM
CHECKED BY: JSM	JOB NO: 24-012
SUBMITTAL #1	
1.04.02	

NOT VALID UNLESS SIGNED AND SEALED BY AUTHORIZED PROFESSIONAL





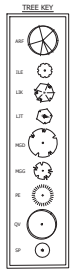


MATCHLINE 5 - SEE SHEET L.04.01

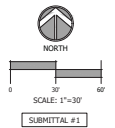
MATCHLINE 6 - SEE BELOW

MATCHLINE 6 - SEE ABOVE

MATCHLINE 7 - SEE SHEET L.04.01



- NOTES:**
1. PROVIDE SOID IN ALL AREAS AS NOTED ON THE PLAN.
  2. PROVIDE A 1/2" MINIMUM SOID STRIP ALONG ALL EXIST. DRIVEWAY, FENCE AND WALLS.
  3. SOID GRAVEL AND DRAIN SIZE SUPPLIED PER COUNCIL AND CHAIRMAN'S REVIEW.
  4. SOID TO BE PLACED IN ALL AREAS NOTED IN THIS PLAN AND AS CALLED FOR IN THE GRADING AND DRAINAGE PLAN.
  5. SOID TO BE PLACED IN ALL AREAS OUTSIDE OF THE PROJECT BOUNDARY.
  6. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.



SUBMITTAL #1

**William & Associates**  
ENGINEERING, U.C.

CIVIL ENGINEERING - PLANNING - LANDSCAPE ARCHITECTURE - ENVIRONMENTAL  
1000 W. UNIVERSITY BLVD., SUITE 100, GAITHERSBURG, MD 20878  
PHONE: (301) 330-9400 FAX: (301) 330-4645

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REVISIONS

NO.	DESCRIPTION	DATE

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IMPROVEMENT PLANS  
HEATHERWOOD  
MARRION COUNTY, FLORIDA

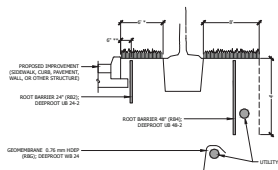
**PLANTING PLAN**

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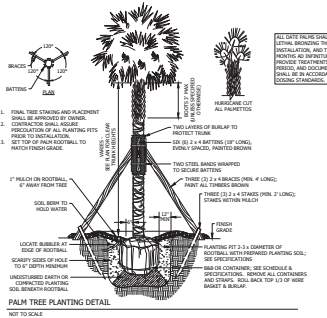
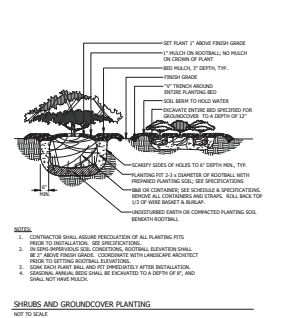
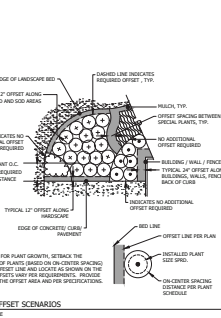
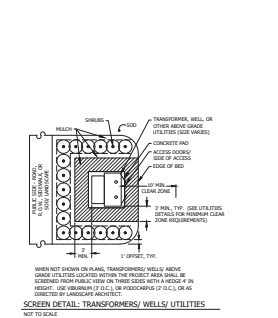
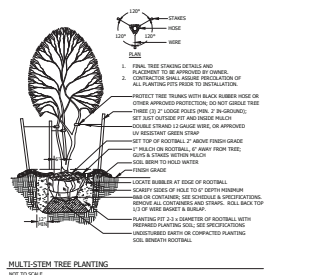
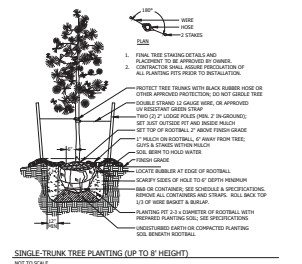
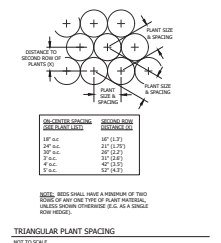
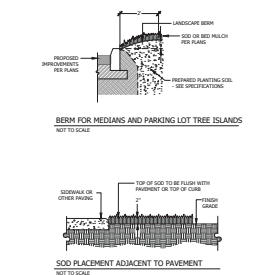
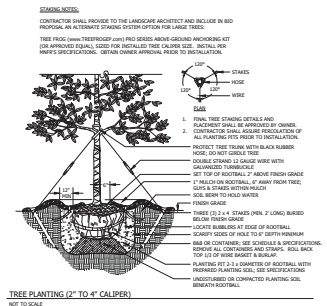
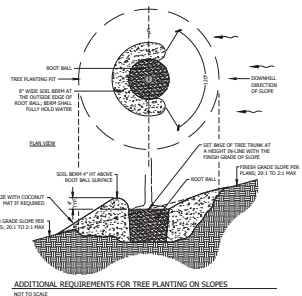
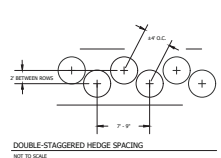
DATE: 4/15/2026  
DRAWN BY: JSM  
CHECKED BY: JSM  
JOB NO: 24-9112

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1.04.05



- ROOT BARRIER SCENARIOS**  
NOT TO SCALE
1. PROVIDE ROOT BARRIER (CONCRETE ALONG IMPROVEMENT, AS SHOWN ON PLAN, AND IMPROVED LANSCE TREES ARE LESS THAN 6" FEET FROM IMPROVEMENT) E.G. ON ANIMAL PLANTING, ETC.
  2. PROVIDE ROOT BARRIER (CONCRETE ALONG IMPROVEMENT) E.G. ON ANIMAL PLANTING, ETC.
  3. PROVIDE ROOT BARRIER (CONCRETE ALONG IMPROVEMENT) E.G. ON ANIMAL PLANTING, ETC.
  4. PROVIDE ROOT BARRIER (CONCRETE ALONG IMPROVEMENT) E.G. ON ANIMAL PLANTING, ETC.
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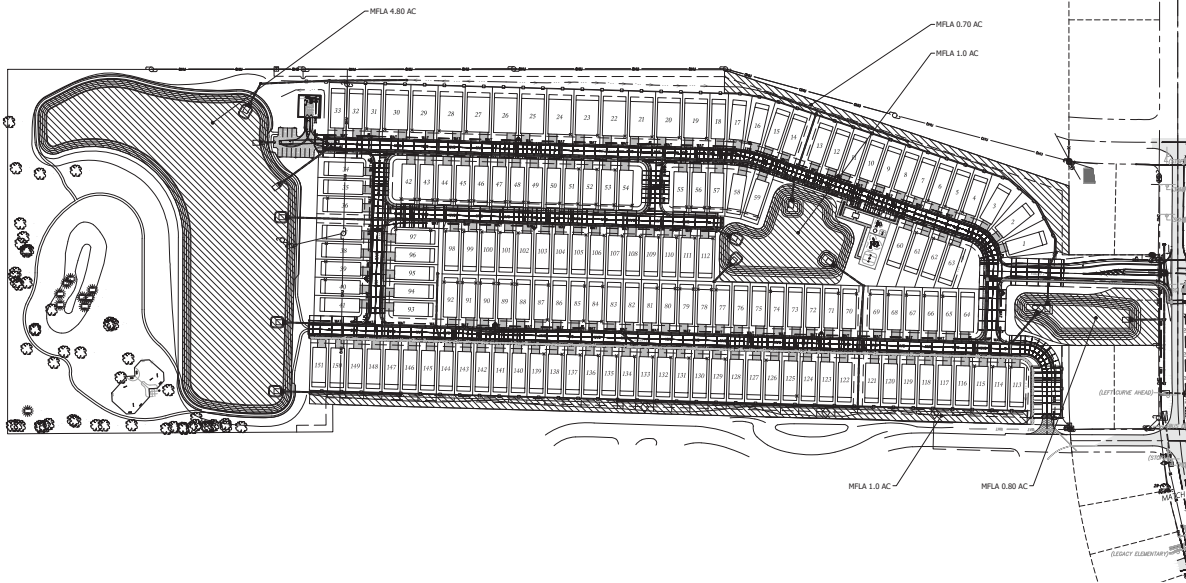


**PLANTING DETAILS**

MARRIOTT PLANS  
HEATHWOOD  
MARRIOTT COUNTY, FLORIDA

DATE: 4/16/2024  
DRAWN BY: SHM  
JOB NO: 241910

SUBMITTAL # 1  
1.05.01



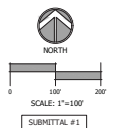
**MARION FRIENDLY LANDSCAPE AREA (MFLA)**

**SECTION**

**MARION FRIENDLY LANDSCAPE AREA (MFLA)**  
 The portion of a site or proposed development that through the approved development plans, location, and best practices, is deemed to be consistent with Marion County's goal of high water retention, low-impact stormwater, and low chemical (fertilizer and pesticide) on surfaces is provided.

**METHODS PRIMARY OPENING PROTECTION ZONE = 20% OF PROJECT AREA SHALL BE MARION FRIENDLY LANDSCAPE AREA**

- PROJECT AREA = 46.274 AC
- REQUIRED = 9.255 AC (20% x 46.274)
- PROVIDED = 9.30 AC



CIVIL ENGINEERING - PLANNING - LANDSCAPE ARCHITECTURE - ENVIRONMENTAL  
 1000 S. UNIVERSITY AVENUE, SUITE 100  
 ORLANDO, FLORIDA 32817-4500 TEL: (321) 330-4545

IMPROVEMENT PLANS HEATHERWOOD MARION COUNTY, FLORIDA	MFLA PLAN
DATE: 11/15/2024 DRAWN BY: [redacted] CHECKED BY: [redacted] JOB NO.: 24-0102	
SUBMITTAL #1	
L06.01	

**MARION COUNTY CODE REQUIREMENTS**

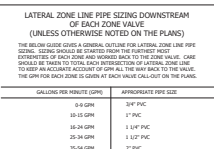
ALL IRRIGATION INSTALLATIONS AND MAINTENANCE SHALL BE IN ACCORDANCE WITH MARION COUNTY LAND DEVELOPMENT CODE, ARTICLE 6, DIVISION 6, IRRIGATION. IRRIGATION SHALL BE INSTALLED AND MAINTAINED AS FOLLOWS:

**IRRIGATION REQUIREMENTS**

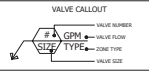
- ALL NEW IRRIGATION SHALL BE DESIGNED THROUGHOUT AN ESTABLISHMENT PERIOD SUITABLE FOR VEGETATION GROWTH OF THE PLANTS TO BE IRRIGATED.
- THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR APPROVAL OF THE IRRIGATION SYSTEM DESIGN, WHICH SHALL BE A "DESIGN-BUILD" SYSTEM TO PROVIDE WITH CHANGES OF LANDSCAPE DESIGN. CONSULT THE LANDSCAPE ARCHITECT WITH ANY QUESTIONS ON CLASSIFYING IRRIGATION REQUIREMENTS.
- THE IRRIGATION SYSTEM DESIGN SHALL MEET THE FOLLOWING REQUIREMENTS AND BE DETAILED BY THE CONTRACTOR:
  - IRRIGATION SHALL BE A LOW-VOLUME WATER SYSTEM TO CONVEY OF THE WATER, ROTATING STREAM NOZZLES AND/OR MICRO-IRRIGATION WITH PRESSURE CONTROL AND/OR CONTROL.
  - COORDINATE WITH OWNER FOR WATER SOURCE AND LOCATION, WITH NEARBY UTILITY APPROVED AND/OR ON RECORD.
  - TRUCKS, BARS, AND SOY HEADS SHALL BE IN A COMPLETE LINE, WITH APPROPRIATELY SIZED PIPING, VALVES, AND FITS.
  - SOIL IS NOT IRRIGATED UNLESS OTHERWISE NOTED ON THE PLAN. CONFORM DESIGNATED SOI WITH OWNER.
  - USE SENSITIVE HEADS WITH MICRO-IRRIGATION AND SOY HEADS.
  - WHERE APPROPRIATE, SOY HEADS SHALL BE LOCATED AND ADJUSTED FOR HEAD-TO-HEAD SPACING.
  - USE PRESSURE REGULATORS TO MAINTAIN DESIRED OPERATING PRESSURE AT EACH HEAD.
  - USE 1/2" INCH O.D. VALVES TO FEEDER, CONTROL, AND SOY HEAD.
  - THE AUTOMATIC CONTROLLER SHALL CONNECT TO A MAIN SENSOR OR OTHER MONITORING SENSING DEVICE, AND HAVE PRESETS FOR SEASONAL ADJUSTMENTS.
- ALL PRODUCTS SHALL BE INSTALLED TO MANUFACTURER'S SPECIFICATIONS, OBTAIN ADVANCE WRITTEN APPROVAL FROM THE OWNER FOR DEVIATIONS THAT MAY BE NECESSARY FOR SPECIFIC CONDITIONS.
- UPON COMPLETION OF THE IRRIGATION SYSTEM INSTALLATION AND THE ACCEPTANCE OF THE "AS-BUILT" DRAWINGS AND OPERATIONAL INFORMATION, A FINAL INSPECTION AND APPROVAL OF THE IRRIGATION SYSTEM SHALL BE OBTAINED FROM THE OWNER.

**IRRIGATION SPECIFICATIONS**

- THE IRRIGATION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH ALL DRAWINGS, SPECIFICATIONS, AND CONTRACT DOCUMENTS.
- CONTRACTOR SHALL DESIGN AND PROVIDE ALL NECESSARY PERMITS FOR WORK FROM THE COMMENCEMENT OF OPERATIONS THROUGH THE END OF THE PROJECTS SHALL BE SENT TO THE OWNER.
- CONTRACTOR SHALL INSTALL IRRIGATION AS SHOWN ON ANY LAIOUT DRAWINGS PROVIDED, AND SHALL PROVIDE SUPPLEMENTAL "DESIGN-BUILD" AS NECESSARY FOR A COMPLETE AND CORRECT INSTALLATION.
- DOCUMENT IRRIGATION INSTALLATION THROUGHOUT CONSTRUCTION; SEE IRRIGATION COMPLETION REQUIREMENTS.
- REMOVE EXISTING IRRIGATION SYSTEMS WITH THE OTHER REMOVAL OF CONSTRUCTION, INCLUDING LANDSCAPE MATERIALS.
- CONFORM WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS AND STANDARDS AS OUTLINED IN THE LATEST PUBLICATION OF THE IRRIGATION TOOLBOX (WWW.IRRIGATIONTOOLBOX.COM).
- BEFORE BEING USED FOR IRRIGATION, ALL MATERIALS SHALL BE TESTED TO THE STANDARD OF LOCAL AND STATE REGULATIONS.
- WHERE NECESSARY, THE CONTRACTOR SHALL PROVIDE THE OWNER WITH THE NECESSARY INFORMATION TO OBTAIN APPROVAL OF THE IRRIGATION SYSTEM. IN THE EVENT THAT APPROVAL OF THE IRRIGATION SYSTEM IS NOT OBTAINED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING APPROVAL OF THE IRRIGATION SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING APPROVAL OF THE IRRIGATION SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING APPROVAL OF THE IRRIGATION SYSTEM.



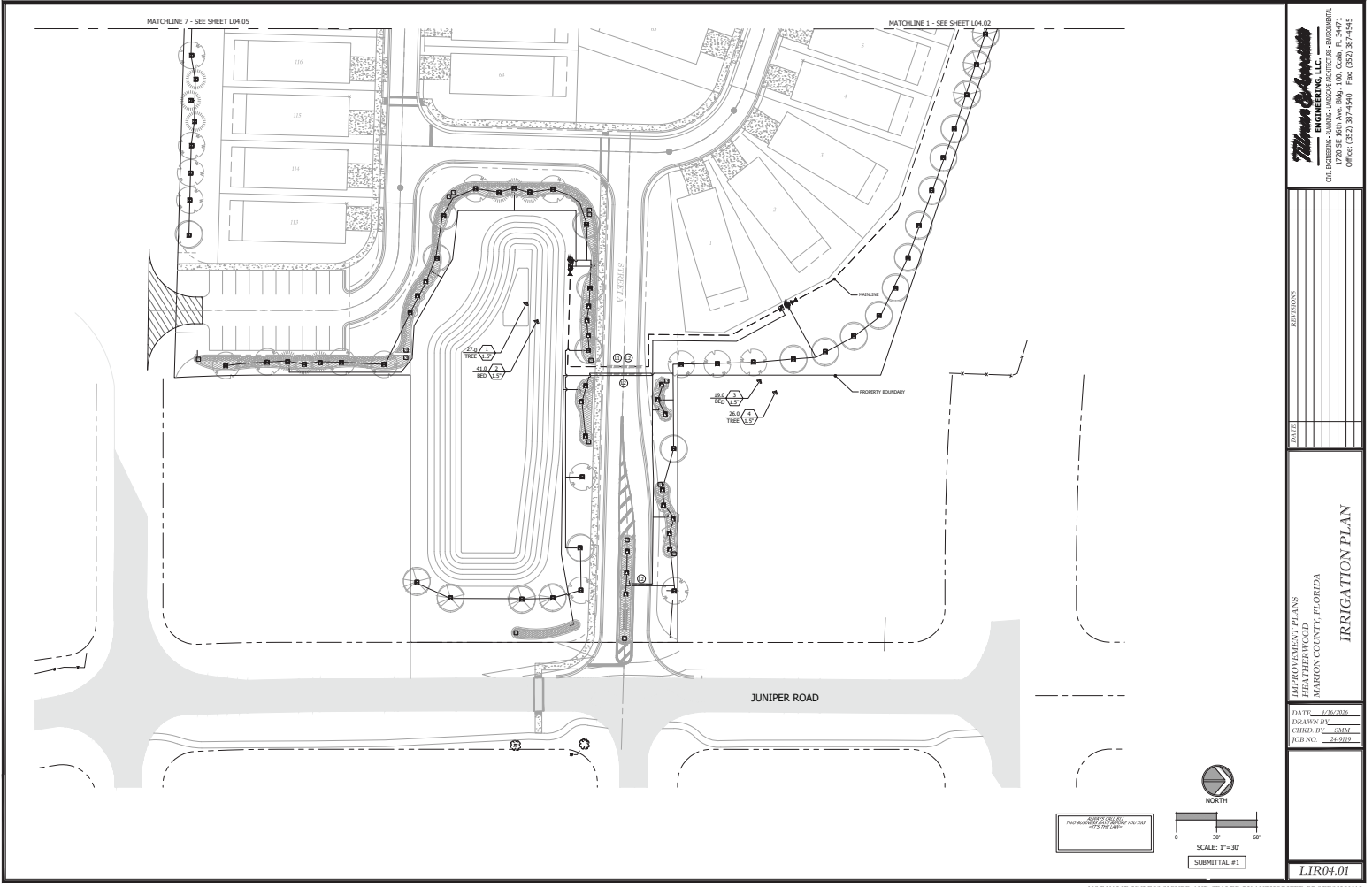
**VALVE CALLOUT**



**VALVE SIZING**

MINIMUM VALVE SIZES FOR SPECIFIC PRODUCT DATA

Pressure Loss (psi)	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
1.0	1.0	1.5	2.0	3.0	4.0	6.0
1.5	1.5	2.0	3.0	4.0	6.0	9.0
2.0	2.0	3.0	4.0	6.0	9.0	12.0
3.0	3.0	4.0	6.0	9.0	12.0	18.0
4.0	4.0	6.0	9.0	12.0	18.0	24.0
6.0	6.0	9.0	12.0	18.0	24.0	36.0
9.0	9.0	12.0	18.0	24.0	36.0	54.0
12.0	12.0	18.0	24.0	36.0	54.0	72.0
18.0	18.0	24.0	36.0	54.0	72.0	108.0
24.0	24.0	36.0	54.0	72.0	108.0	144.0
36.0	36.0	54.0	72.0	108.0	144.0	216.0
54.0	54.0	72.0	108.0	144.0	216.0	324.0
72.0	72.0	108.0	144.0	216.0	324.0	432.0
108.0	108.0	144.0	216.0	324.0	432.0	648.0
144.0	144.0	216.0	324.0	432.0	648.0	864.0
216.0	216.0	324.0	432.0	648.0	864.0	1296.0
324.0	324.0	432.0	648.0	864.0	1296.0	1728.0
432.0	432.0	648.0	864.0	1296.0	1728.0	2304.0
648.0	648.0	864.0	1296.0	1728.0	2304.0	3456.0
864.0	864.0	1296.0	1728.0	2304.0	3456.0	4608.0
1296.0	1296.0	1728.0	2304.0	3456.0	4608.0	6912.0
1728.0	1728.0	2304.0	3456.0	4608.0	6912.0	9152.0
2304.0	2304.0	3456.0	4608.0	6912.0	9152.0	12288.0
3456.0	3456.0	4608.0	6912.0	9152.0	12288.0	16384.0
4608.0	4608.0	6912.0	9152.0	12288.0	16384.0	21792.0
6912.0	6912.0	9152.0	12288.0	16384.0	21792.0	29184.0
9152.0	9152.0	12288.0	16384.0	21792.0	29184.0	38976.0
12288.0	12288.0	16384.0	21792.0	29184.0	38976.0	51936.0
16384.0	16384.0	21792.0	29184.0	38976.0	51936.0	69120.0
21792.0	21792.0	29184.0	38976.0	51936.0	69120.0	91584.0
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**William & Associates**  
ENGINEERING, L.L.C.

CIVIL ENGINEERING - PLANNING - LANDSCAPE ARCHITECTURE - ENVIRONMENTAL  
CONSULTING - SURVEYING - WATER RESOURCES - IRRIGATION  
OFFICE: (352) 387-4500 Fax: (352) 387-4505

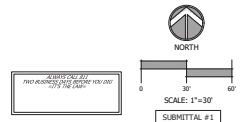
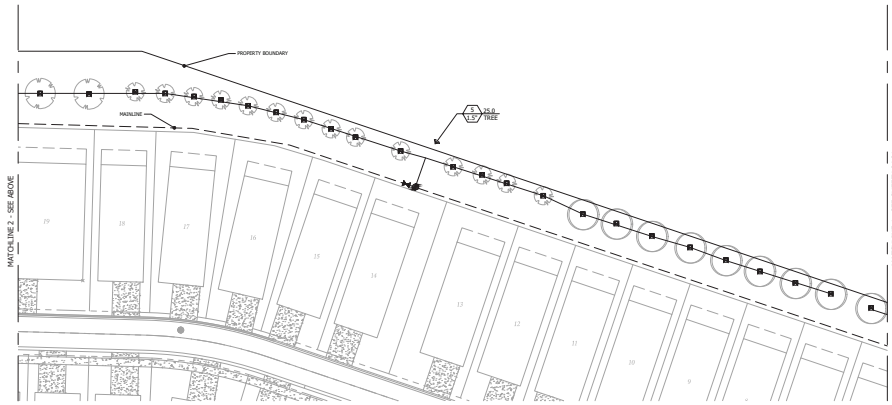
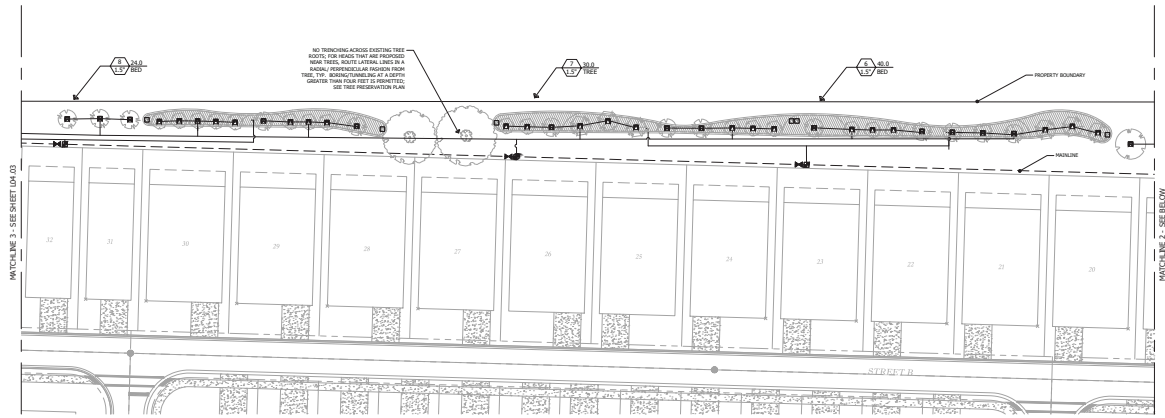
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**IMPROVEMENT PLANS  
HEATHERWOOD  
MORRIS COUNTY, FLORIDA  
IRRIGATION PLAN**

DATE: 4/16/2016	
DRAWN BY: JMM	
CHECKED BY: JMM	
JOB NO.: 14-010	

SCALE: 1"=30'  
SUBMITTAL #1

LIR04.01



**William & Associates**  
**ENGINEERING, LLC**  
 ONE HUNDRED & FORTY-NINE HIGHLAND AVENUE, SUITE 200  
 MARION COUNTY, FLORIDA 32003-3874  
 PHONE: (352) 339-4541 FAX: (352) 339-4545

DATE	
REVISIONS	

IMPROVEMENT PLANS  
 HEATHERWOOD  
 MARION COUNTY, FLORIDA  
**IRRIGATION PLAN**

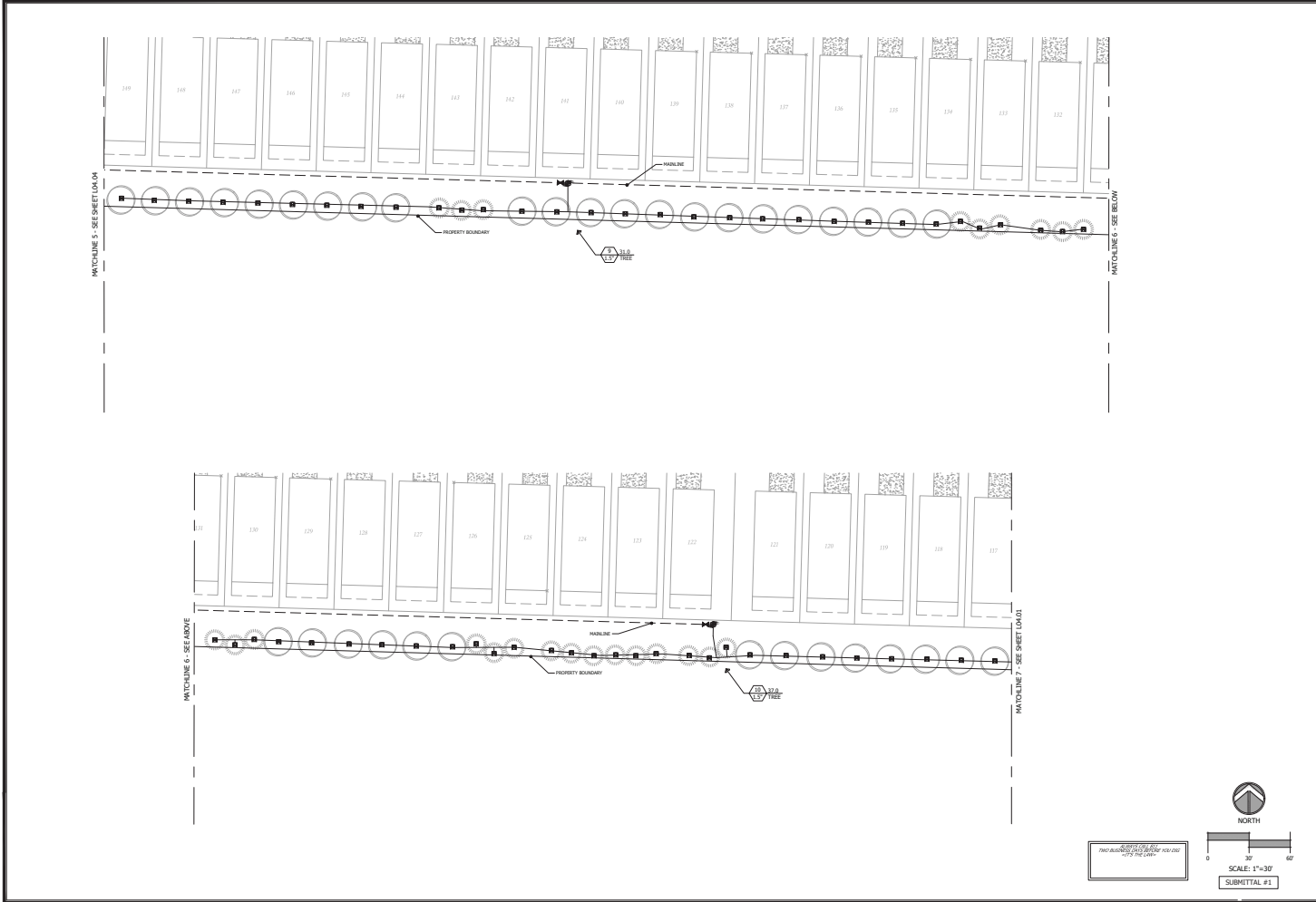
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 DRAWN BY: JMM  
 CHECKED BY: JMM  
 JOB NO.: 22-0112

**LIR04.02**

NOT VALID UNLESS SIGNED AND SEALED BY AUTHORIZED PROFESSIONAL







**Thomas & Associates**  
ENGINEERING, LLC  
CIVIL ENGINEERING • PLANNING • LANDSCAPE ARCHITECTURE • ENVIRONMENTAL  
1720 SE 168th Ave. Bldg. 100, Ocala, FL 34471  
Office: (352) 369-6494 Fax: (352) 369-6496

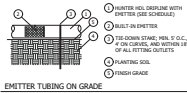
REVISIONS	
DATE	

**IRRIGATION PLAN**

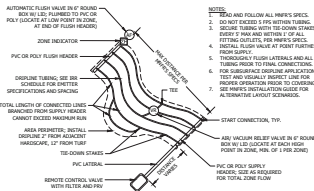
PREPARED BY: PLANS  
DESIGNED BY: JIM HILBURN  
CHECKED BY: SARA  
JOB NO.: LR04.05

DATE: 4/16/2016  
DRAWN BY:  
CHECKED BY: SARA  
JOB NO.: LR04.05

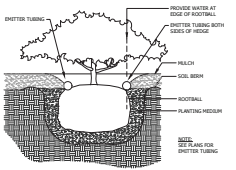
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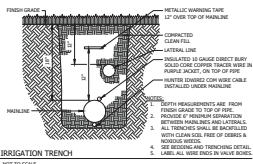
EMITTER TUBING ON GRADE  
NOT TO SCALE



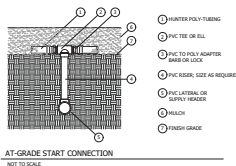
DRIPLINE LAYOUT  
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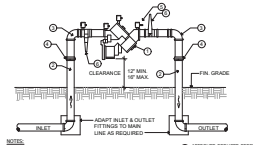
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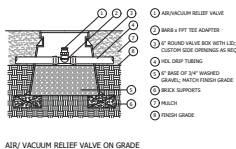
IRRIGATION TRENCH  
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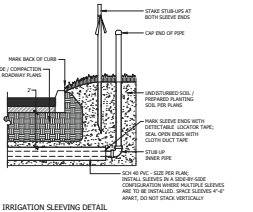
AT-GRADE START CONNECTION  
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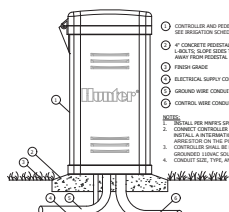
REDUCED PRESSURE BACKFLOW PREVENTER  
NOT TO SCALE



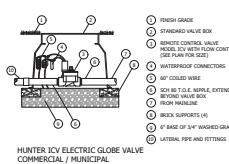
ARI VACUUM RELIEF VALVE ON GRADE  
NOT TO SCALE



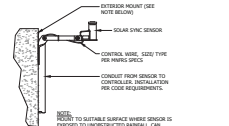
IRRIGATION SLEEVING DETAIL  
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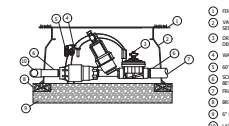
HUNTER ACC DECODER CONTROLLER ON PLASTIC PEDESTAL  
NOT TO SCALE



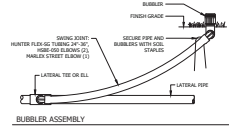
HUNTER JCV ELECTRIC GLOBE VALVE  
COMMERCIAL / MUNICIPAL  
NOT TO SCALE



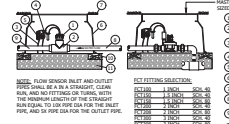
HUNTER SOLAR SYNC SENSOR (ET, FREEZE, RAIN)  
NOT TO SCALE



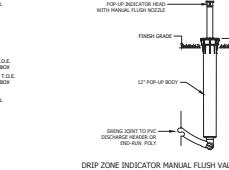
DRIIP CONTROL KIT  
NOT TO SCALE



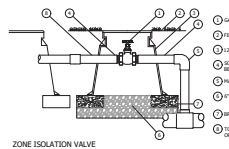
BUBBLER ASSEMBLY  
NOT TO SCALE



HUNTER FLOW-SYNC FLOW SENSOR AND MASTER VALVE ASSEMBLY  
NOT TO SCALE



DRIIP ZONE INDICATOR MANUAL FLUSH VALVE ASSEMBLY  
NOT TO SCALE



ZONE ISOLATION VALVE  
NOT TO SCALE

SUBMITTAL #1

**William C. Anderson**  
ENGINEERING, LLC  
1000 S.W. 10TH AVENUE, SUITE 100, BOCA RATON, FL 33432  
OFFICE: (561) 387-4500 FAX: (561) 387-4545

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IMPROVEMENT PLANS  
HEATHERWOOD  
MARION COUNTY, FLORIDA  
IRRIGATION DETAILS

DATE: 6/28/2016  
DRAWN BY: CHKD PL SAM  
JOB NO: 142019

LIR05.01

NOT VALID UNLESS SIGNED AND SEALED BY AUTHORIZED PROFESSIONAL

