September 9, 2024
PROJECT NAME: WOODRIDGE PLACE SUBDIVISION
PROJECT NUMBER: 2006060068
APPLICATION: IMPROVEMENT PLAN #31694

1 DEPARTMENT: ENGDRN - STORMWATER REVIEW
REVIEW ITEM: 2.12.20 - Stormwater Infrastructure Supports Phasing
STATUS OF REVIEW: INFO
REMARKS: Stormwater improvements must be in place to support each phase of development at time of phase completion.

2 DEPARTMENT: ENGDRN - STORMWATER REVIEW
REVIEW ITEM: 6.13.2.B(8) - Calculation & Plan Consistency
STATUS OF REVIEW: INFO
REMARKS: This criteria to be reviewed with resubmittal.

3 DEPARTMENT: ENGDRN - STORMWATER REVIEW
REVIEW ITEM: 6.13.10.B - Copy of NPDES Permit or NOI
STATUS OF REVIEW: INFO
REMARKS: Please provide a copy of the NPDES permit or NOI prior to construction.

4 DEPARTMENT: ENGDRN - STORMWATER REVIEW
REVIEW ITEM: Copy of District Permit (County Interest)
STATUS OF REVIEW: INFO
REMARKS: Please provide a copy of the District permit prior to construction.

5 DEPARTMENT: ENGDRN - STORMWATER REVIEW
REVIEW ITEM: Additional Stormwater comments
STATUS OF REVIEW: INFO
REMARKS: If you have questions or would like to discuss the stormwater review comments, please contact Kevin Vickers, PE at 352-671-8695 or kevin.vickers@marionfl.org.

6 DEPARTMENT: ENGIN - DEVELOPMENT REVIEW
REVIEW ITEM: 2.12.4.K - List of approved waivers, conditions, date of approval
STATUS OF REVIEW: INFO
REMARKS: 7/12/24 - Add waivers if requested in the future

7 DEPARTMENT: ENGIN - DEVELOPMENT REVIEW
REVIEW ITEM: 2.19.4.C - No Final Plat shall be accepted for filing by the Clerk of the Circuit Court until...an MSBU, CDD, or other special district for the purposes of maintaining the improvements for this plat has been established
STATUS OF REVIEW: INFO
REMARKS: 7/12/24 - Establishment of an MSBU is required prior to final plat approval. Contact the MSTU Department at (352)438-2650 to create an MSBU or obtain a waiver from BCC via DRC.

8 DEPARTMENT: ENGIN - DEVELOPMENT REVIEW
REVIEW ITEM: Additional Development Review Comments
STATUS OF REVIEW: INFO
REMARKS: After approval, plans will be electronically stamped by the County. The applicant will receive an email indicating that approved plans are available for download and are located in the ePlans project Approved folder. For Development Review submittals, with the exception of Final Plats and Minor Site

Plans, applicants are required to print, obtain required signatures, and sign and seal two 24”x 36” sets of the electronically stamped approved plan and deliver them to the Office of County Engineer, Development Review Section, located at 412 SE 25th Avenue Ocala, FL 34471. Upon receipt, a development order will be issued. Until such time as that development order is issued, the project does not have final approval and construction, if applicable, shall not commence. For plans requiring As-Builts, As-Builts and associated documentation shall be submitted on paper in accordance with current county requirements.

9 DEPARTMENT: UTIL - MARION COUNTY UTILITIES
REVIEW ITEM: 6.14.2.A(1) - Public water service area/provider
STATUS OF REVIEW: INFO
REMARKS: MCU by offsite connection to Courtney Acres and future 16" WME along NE Jacksonville Rd (separate project) - all offsite & onsite WM to be owned & operated by MCU post Bill of Sale

10 DEPARTMENT: UTIL - MARION COUNTY UTILITIES
REVIEW ITEM: 6.14.2.A(1) - Public sewer service area/provider
STATUS OF REVIEW: INFO
REMARKS: MCU by offsite connection to new 8" SFM via NE Jacksonville Rd - all offsite & onsite SS & SFM & LS to be owned & operated by MCU post Bill of Sale

11 DEPARTMENT: UTIL - MARION COUNTY UTILITIES
REVIEW ITEM: 6.14.5.C - All issued permits related to this project shall be submitted to MCU (DOT, ROW, misc)
STATUS OF REVIEW: INFO
REMARKS:

12 DEPARTMENT: UTIL - MARION COUNTY UTILITIES
REVIEW ITEM: 6.14.5.C - DEP permit for water mains to be constructed/owned by MCU
STATUS OF REVIEW: INFO
REMARKS: MCU will not sign out any DEP PWS permit until the plan status is COMPLETE by MCU. Leave all MCU & plant data blank; MCU will complete based on current data when received. ALLOW A MINIMUM OF 5 WORKING DAYS to receive, review, report data, route for signatures, and return.

13 DEPARTMENT: UTIL - MARION COUNTY UTILITIES
REVIEW ITEM: 6.14.5.C - DEP permit for sewer mains to be constructed/owned by MCU
STATUS OF REVIEW: INFO
REMARKS: MCU will not sign out any DEP WW permit until the plan status is COMPLETE by MCU. Leave all MCU & plant data blank; MCU will complete based on current data when received. ALLOW A MINIMUM OF 5 WORKING DAYS to receive, review, report data, route for signatures, and return.

14 DEPARTMENT: UTIL - MARION COUNTY UTILITIES
REVIEW ITEM: 6.14.9.B - Bill of Sale
STATUS OF REVIEW: INFO
REMARKS: Any assets to be conveyed to Marion County Utilities as part of the public utility system shall be coordinated PRIOR TO Marion County Utilities through the Bill of Sale, and prior to MCU's authorization of the DEP connection/Clearance Package. The Bill of Sale for the Lift Station MUST include the first electric bill to capture necessary data prior to transfer to MCU. ALLOW A MINIMUM OF 5 WORKING DAYS for processing the Bill of Sale data.

15 DEPARTMENT: UTIL - MARION COUNTY UTILITIES
REVIEW ITEM: Utilities Plan Review Fee per Resolution 15-R-583 - payable to Marion County Utilities
STATUS OF REVIEW: INFO

REMARKS: $500 - checks payable to MCU or pay by phone at 352-671-8686 and reference Utility Fee for AR 31694.

16 DEPARTMENT: UTIL - MARION COUNTY UTILITIES
REVIEW ITEM: Additional Utilities comments
STATUS OF REVIEW: INFO
REMARKS: Only the Master Utility Plan pages 05.01 and 05.02 were reviewed; ensure all changes carry over to P&P pages as applicable.

17 DEPARTMENT: UTIL - MARION COUNTY UTILITIES
REVIEW ITEM: Additional Utilities comments
STATUS OF REVIEW: INFO
REMARKS: DEP Clearances will not be signed out by MCU until accompanied by a BoS for the respective components.

18 DEPARTMENT: DOH - ENVIRONMENTAL HEALTH
REVIEW ITEM: Additional Health comments
STATUS OF REVIEW: INFO
REMARKS: N/A

19 DEPARTMENT: FRMSH - FIRE MARSHAL REVIEW
REVIEW ITEM: 6.18.3 - Gated Communities/Properties
STATUS OF REVIEW: INFO
REMARKS: If the subdivision has a automated gate installed it shall open upon siren activation. Per Marion County Land Development Code Section 6.18.3 a siren activated gate shall be provided for emergency vehicular access. Please note on the plans the gate will be siren activated.

20 DEPARTMENT: ENRAA - ACQ AGENT ENG ROW
REVIEW ITEM: Improvement Plan
STATUS OF REVIEW: INFO
REMARKS: Verified owner with Sunbiz and check project list. HR 7.15.24
IF APPLICAB LE:
Sec. 2.18.2.I Show connections to other phases.
Sec. 2.19.2.H. Legal documents such as Declaration of Covenants and Restrictions, By-Laws, Articles of Incorporation, ordinances, resolutions, etc.
Required Right of Way Dedication (select as appropriate)
Sec. 6.3.1.D.(1)(b)1. For Public Streets. "[All streets and right of way shown on this plat or name specifically if less than all] are hereby dedicated for the use and benefit of the public."
Sec. 6.3.1.D.(1)(b)2. For Non-Public Streets. "[All streets and right of way shown on this plat or name specifically if less than all] are hereby dedicated privately to the [entity name]. All public authorities and their personnel providing services to the subdivision are granted an easement for access. The Board of County Commissioners of Marion County, Florida, shall have no responsibility, duty, or liability whatsoever regarding such streets. Marion County is granted an easement for emergency maintenance in the event of a local, state, or federal state of emergency wherein the declaration includes this subdivision or an emergency wherein the health, safety, or welfare of the public is deemed to be at risk."
Sec. 6.3.1.D.(1)(b)3. For Cross Access Easements. "All parallel access easements shown on this plat are hereby dedicated for the use and benefit of the public, and maintenance of said easements is the responsibility of [entity name]."
Sec. 6.3.1.D.(1)(c)1.2. Utility Easements, select as appropriate:
1."[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."
2."[All utility tracts or identify each tract as appropriate] as shown are dedicated [private or to the public] for

the construction and maintenance of such facilities."
Sec. 6.3.1.D.(1)(d)1.2.3. Stormwater easements and facilities, select as appropriate:
1."[All stormwater and drainage easements as shown or noted or name specifically if less than all] are dedicated [private or to the public] for the construction and maintenance of such facilities."
2."[All stormwater management tracts or identify each tract as appropriate] as shown are dedicated [private or to the public] for the construction and maintenance of such facilities."
3. When any stormwater easement and/or management tract is not dedicated to the public or Marion County directly, the following statement shall be added to the dedicated language: "Marion County is granted the right to perform emergency maintenance on the [stormwater easement and/or management tract, complete accordingly] in the event of a local, state, or federal state of emergency wherein the declaration includes this subdivision or an emergency wherein the health, safety, or welfare of the public is deemed to be at risk."
Sec. 6.3.1.D.(1)(f). If a Conservation Easement is required the following shall be provided: "A conservation easement [as shown or on tract and identify the tract, complete accordingly] is dedicated to [the Board of County Commissioners of Marion County, Florida or entity name, if not Marion County] for the purpose of preservation of [listed species, habitat, Karst feature and/or native vegetation, complete accordingly]."

21 DEPARTMENT: ENGDRN - STORMWATER REVIEW
REVIEW ITEM: 2.12.8 - Topographical Contours
STATUS OF REVIEW: NO
REMARKS: LDC requires that the survey have been performed in the last 12 months. You have one of two options for addressing this. You can have the surveyor recertify the survey. Or you can apply for a waiver. If there have been no changes to the site, staff can support the waiver.

22 DEPARTMENT: ENGDRN - STORMWATER REVIEW
REVIEW ITEM: 2.12.9/10 - Proposed Drainage Right-of-Way/Easements
STATUS OF REVIEW: NO
REMARKS: Please update the typical lot detail to include the drainage easements on the backsides of the lots. This will enable staff to determine if adequate easement widths are being granted to meet the LDC requirements. Please note that code requires that all drainage swales to facilities or underground stormwater conveyance systems shall be within drainage easements or rights-of-way. Drainage easements shall be a minimum of 20 feet in width. This criteria will be reviewed with your resubmittal.

23 DEPARTMENT: ENGDRN - STORMWATER REVIEW
REVIEW ITEM: 6.13.7 - Geotechnical Criteria
STATUS OF REVIEW: NO
REMARKS: Please note that the LDC requires that for each retention/detention area utilizing percolation or infiltration in the design model, there shall be a minimum of two infiltration rate tests for each retention/detention area. DRA-1 does not have two tests.

24 DEPARTMENT: ENGDRN - STORMWATER REVIEW
REVIEW ITEM: 6.13.2.A(1)/(2) - Contributing Basins/Tc
STATUS OF REVIEW: NO
REMARKS: See comment under "6.13.2.B(4) - Hydrologic Analysis"

25 DEPARTMENT: ENGDRN - STORMWATER REVIEW
REVIEW ITEM: 6.13.2.B(1)/(2) - Runoff Analysis/ Tc Calculations
STATUS OF REVIEW: NO
REMARKS: See comment under "6.13.2.B(4) - Hydrologic Analysis"

26 DEPARTMENT: ENGDRN - STORMWATER REVIEW
REVIEW ITEM: 6.13.2.A(3) - Retention/Detention Area Design Parameters
STATUS OF REVIEW: NO

REMARKS: The pond typical section is showing a 12' berm @ 6% around all ponds. The grading plan does not appear to reflect this. Please clarify.

27 DEPARTMENT: ENGDRN - STORMWATER REVIEW
REVIEW ITEM: 6.13.4 - Stormwater Quantity Criteria
STATUS OF REVIEW: NO
REMARKS: See comment under "6.13.2.B(4) - Hydrologic Analysis"

28 DEPARTMENT: ENGDRN - STORMWATER REVIEW
REVIEW ITEM: 6.13.2.B(4) - Hydrologic Analysis
STATUS OF REVIEW: NO
REMARKS: (1) Per the watershed management plan in this area, there is connectivity between one of the onsite flood prone areas and the existing DRA on parcel 1495+001-001. This connectivity and the associated drainage implications need to be accounted for in the proposed stormwater design. Please clarify how this was considered in the current design. (2) Per the geotechnical borings, the proposed pond bottoms will excavate well into clayey sand materials (and clay materials) on most of the pond bottom area for this development. The perc rate of these materials is known for being highly sensitive to site work practices. The concern is that disturbing this material typically results in creating a virtually impervious compacted material that will not allow the ponds to perc as designed. What provisions will be made during construction to ensure that the percolation will not be compromised? On another project the design engineer agreed to have DRIP tests performed on the DRAs to confirm post construction perc rates where greater than or equal to rates assumed in the design modeling. (3) Please provide written geotechnical justification for the use of 0.25 porosity for the clayey sand materials in the layer below the pond bottoms. (4) The County owns two DRAs adjacent to NE property line of this property (parcels 1495+001-001 and 1493+002-001. Due to proximity and potential interaction between DRAs for percolation, the County DRAs need to be modeled to ensure the performance is not negatively impacted by the proposed DRAs. (5) Please confirm that the "Residential" Land Cover Zone included in the ICPR inputs represents the impervious area for the buildable lots only and can be used by County staff as the "allowable impervious" area for building permits. (6) Please provide explanation/justification for the 38% impervious coverage being utilized for the "Offsite Residential" Land Cover Zone in the ICPR inputs.

29 DEPARTMENT: ENGDRN - STORMWATER REVIEW
REVIEW ITEM: 6.13.4.C - Discharge Conditions
STATUS OF REVIEW: NO
REMARKS: See comment under "6.13.2.B(4) - Hydrologic Analysis"

30 DEPARTMENT: ENGDRN - STORMWATER REVIEW
REVIEW ITEM: 6.13.2.B(6) - Freeboard
STATUS OF REVIEW: NO
REMARKS: See comment under "6.13.2.B(4) - Hydrologic Analysis"

31 DEPARTMENT: ENGDRN - STORMWATER REVIEW
REVIEW ITEM: 6.13.4.D - Recovery Analysis
STATUS OF REVIEW: NO
REMARKS: See comment under "6.13.2.B(4) - Hydrologic Analysis"

32 DEPARTMENT: ENGDRN - STORMWATER REVIEW
REVIEW ITEM: 6.13.2.B(5) - Hydraulic Analysis
STATUS OF REVIEW: NO
REMARKS: (1) Please provide swale calculations for review. (2) Conveyance calculations don't consider the connection between DRA-5 and DRA-6. Please clarify. (3) Conveyance calculations don't include pipes between DRA-4 and DRA-5. Please provide calculations justifying the size used. (4) Conveyance

calculations don't include pipes between DRA-2 and DRA-3. Please provide calculations justifying the size used.

33 DEPARTMENT: ENGDRN - STORMWATER REVIEW
REVIEW ITEM: 6.13.9 - Grading Criteria
STATUS OF REVIEW: NO
REMARKS: The grading sheet 08.03 was submitted twice and sheet 8.05 is not included in the submittal. Please submit sheet 08.05 for review and correct plan sheet numbers.

34 DEPARTMENT: ENGDRN - STORMWATER REVIEW
REVIEW ITEM: 6.10 Karst Topography and High Recharge Areas
STATUS OF REVIEW: NO
REMARKS: Per the Karst report, Geotech is recommending follow up investigation of the two onsite depressional features. The improvement plan appears to propose buildable lots on top of these depressional features. What is the status of the geotechnical engineer's recommendation?

35 DEPARTMENT: ENGDRN - STORMWATER REVIEW
REVIEW ITEM: 6.13.12 - Operation and Maintenance
STATUS OF REVIEW: NO
REMARKS: Please provide an O&M manual detailing the steps for operating and maintaining the proposed system of inlets, drains and DRAs. An owner's certification is required on the O&M manual. Certification to state “I hereby certify that I, my successor, 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.” The individual signing the certification needs to be an agent or member of the entity that will own and maintain the stormwater system, or an authorized signatory of that entity. If signatory is not an agent or member, a letter authorizing a different individual needs to be submitted with the signed documents. The authorization letter must be signed by and agent/officer of owner. Please have the person signing also print their name for verification. Sunbiz will be used to verify agents and/or officers. Please contact reviewer if you need examples of O&M manuals accepted in the past.

36 DEPARTMENT: ENGDRN - STORMWATER REVIEW
REVIEW ITEM: Please provide a final signed and sealed hard copy signature page with references to the stormwater analysis or final hard copy of the full stormwater analysis.
STATUS OF REVIEW: NO
REMARKS: After all stormwater comments are resolved, please upload a digitally signed and sealed report. A hard copy signed and sealed report can be submitted if desired.

37 DEPARTMENT: ENGTRF - TRAFFIC REVIEW
REVIEW ITEM: 6.11.9.C - Pavement marking
STATUS OF REVIEW: NO
REMARKS: 8/1/24 - The legend indicates that the white lane on the exit lane is a "solid dashed" line. This needs to be a solid line.

38 DEPARTMENT: ENGTRF - TRAFFIC REVIEW
REVIEW ITEM: 6.12.11 - Turn lanes
STATUS OF REVIEW: NO
REMARKS: 7/24/24 - The approved traffic study determined that a 290 ft southbound left turn lane and a 240 ft northbound right turn lane are needed on CR 200A. An offsite improvement plan is required for these improvements. The plan must be submitted and approved concurrently with the subdivision improvement plan.

39 DEPARTMENT: ENGIN - DEVELOPMENT REVIEW
REVIEW ITEM: 2.18.2.B - Improvement Plan fee of $1,200.00 + ($10.00 x per lot)
STATUS OF REVIEW: NO
REMARKS: 7/11/24 - fee due

40 DEPARTMENT: ENGIN - DEVELOPMENT REVIEW
REVIEW ITEM: 2.18.2.G - Easement requirements of each utility shall be indicated by the utility on a copy of the Preliminary Plat or by letter. (Letters/emails of easement acceptance due with improvement plan.)
STATUS OF REVIEW: NO
REMARKS: 7/12/24 - Easement acceptance not submitted with improvement plan - WM

41 DEPARTMENT: UTIL - MARION COUNTY UTILITIES
REVIEW ITEM: Marion County Utilities Contact Information
STATUS OF REVIEW: NO
REMARKS: 01.01 Change Josh Kramer and 352-438-2383 to MCU Customer Service 24/7/365 and 352-307-6000

42 DEPARTMENT: UTIL - MARION COUNTY UTILITIES
REVIEW ITEM: 6.14.5.A(1) - Submittal Requirements - Existing on-site & off-site mains and service connections
STATUS OF REVIEW: NO
REMARKS: sheet 05.01 - change 12" future water main note to 16"

43 DEPARTMENT: UTIL - MARION COUNTY UTILITIES
REVIEW ITEM: 6.14.5.A(2) - Submittal Requirements - Proposed on-site & off-site mains and service connections
STATUS OF REVIEW: NO
REMARKS: (1) ensure all water services are not in conflict with driveways; several appear to be potential conflicts on sheets 05.01 and 05.02 (2) interconnect to Courtney Acres development at NE 59th St & at NE 56th St

44 DEPARTMENT: UTIL - MARION COUNTY UTILITIES
REVIEW ITEM: 6.14.5.D - Hydraulic Analysis
STATUS OF REVIEW: NO
REMARKS: See Supplemental folder for MCU's comments on the Woodridge Offsite FM Technical Memorandum. Version new document over previous upon resubmittal.

45 DEPARTMENT: UTIL - MARION COUNTY UTILITIES
REVIEW ITEM: 6.14.8.A - Completion and Closeout - PLAN NOTE: As-builts
STATUS OF REVIEW: NO
REMARKS: "EoR shall supply .pdf and CAD as-builts including NAD 83 W State Plane coordinates for all features per Code. As-builts shall be submitted to MCU a minimum of two weeks prior to the FDEP clearance request. This will allow for adequate time to review ahead of the Bill of Sale and clearance request and avoid delay. Delayed/expired BacTs as a result of insufficient time shall be Owner/Developer's sole expense."

46 DEPARTMENT: UTIL - MARION COUNTY UTILITIES
REVIEW ITEM: 6.15.3 - Fire Protection/Fire Flow Capacity
STATUS OF REVIEW: NO
REMARKS: move all hydrants away from intersections

47 DEPARTMENT: UTIL - MARION COUNTY UTILITIES
REVIEW ITEM: 6.15.6.D - Meter Location
STATUS OF REVIEW: NO
REMARKS: (1) will a water service/meter be needed for the Amenity Center? Recommend adding now instead of having to wet tap after main is cleared (2) move meter to left lot line of lot 34 so there is a double service at the property corner of 33/34

48 DEPARTMENT: UTIL - MARION COUNTY UTILITIES
REVIEW ITEM: 6.16.4 - Wastewater Collection Systems (Gravity/Pressurized) Design
STATUS OF REVIEW: NO
REMARKS: (1) move all laterals out of manholes (2) check for flow direction changes that are <90*; appears to be several on sheet 05.01 (3) extend gravity main farther west of RLL of lot 1; this will minimize the long lateral & keep it from being under the driveway

49 DEPARTMENT: UTIL - MARION COUNTY UTILITIES
REVIEW ITEM: 6.16.5.C - Public Wastewater Pump Stations (MCU Standards)
STATUS OF REVIEW: NO
REMARKS: (1) sheet 12.01 - see changemarks in ePlans (2) sheet 12.02 appears to be the wrong sheet uploaded (dupl of 12.01)

50 DEPARTMENT: UTIL - MARION COUNTY UTILITIES
REVIEW ITEM: Additional Utilities comments
STATUS OF REVIEW: NO
REMARKS: Sheet 02.01 - update all references to 14 ga copper wire to 10 ga

51 DEPARTMENT: UTIL - MARION COUNTY UTILITIES
REVIEW ITEM: Additional Utilities comments
STATUS OF REVIEW: NO
REMARKS: cloud all revisions

52 DEPARTMENT: UTIL - MARION COUNTY UTILITIES
REVIEW ITEM: Additional Utilities comments
STATUS OF REVIEW: NO
REMARKS: Woodbridge Place Master Utility Report - Update proposed 12" WM to 16"

53 DEPARTMENT: UTIL - MARION COUNTY UTILITIES
REVIEW ITEM: Additional Utilities comments
STATUS OF REVIEW: NO
REMARKS: PLAN NOTE: "Developer to verify all water services/meter boxes and sewer clean outs will not be in conflict with any concrete surfaces. Any services to be found in conflict will be relocated by developer at developer's sole expense."

54 DEPARTMENT: UTIL - MARION COUNTY UTILITIES
REVIEW ITEM: Additional Utilities comments
STATUS OF REVIEW: NO
REMARKS: Utility Sheet(s) NOTE: "No residential water meters will be set (regardless of clearance or Bill of Sale status) until the wastewater collection system is DEP cleared for use."

55 DEPARTMENT: 911 - 911 MANAGEMENT
REVIEW ITEM: 2.12.28 - Correct road names supplied
STATUS OF REVIEW: NO
REMARKS: Labeled road names on RN.01 911 Management Plan.

56 DEPARTMENT: 911 - 911 MANAGEMENT
REVIEW ITEM: 6.2.1.F - North arrow and graphic drawing and written scale
STATUS OF REVIEW: NO
REMARKS: Sheet 09.17 has an incorrect North Arrow. Either remove it or correct it as it is pointing south.

57 DEPARTMENT: LSCAPE - LANDSCAPE DESIGN AND IRRIGATION
REVIEW ITEM: Additional Landscape comments
STATUS OF REVIEW: NO
REMARKS: Please submit Tree mitigation, Landscape and Irrigation plans for review

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

AR 31694

DEVELOPMENT REVIEW COMMITTEE WAIVER REQUEST FORM

Date: 8/6/2024 Parcel Number(s): 14973-000-00 and 14971-001-00 Permit Number: AR#31694

A. PROJECT INFORMATION: Fill in below as applicable:

Project Name: Woodridge Place Commercial ☐ Residential ☑
Subdivision Name (if applicable):
Unit Block Lot Tract

B. PROPERTY OWNER'S AUTHORIZATION: The property owner's signature authorizes the applicant to act on the owner's behalf for this waiver request. The signature may be obtained by email, fax, scan, a letter from the property owner, or original signature below.

Name (print): Harvey Vandeven
Signature:
Mailing Address: 1240 SE 12th Ct City: Ocala
State: FL Zip Code: 34471 Phone # (352) 895-3697
Email address: harveyvandeven@gmail.com

C. APPLICANT INFORMATION: The applicant will be the point of contact during this waiver process and will receive all correspondence.

Firm Name (if applicable): Tillman & Associates Engineering, LLC Contact Name: Jeffrey McPherson, P.E.
Mailing Address: 1720 SE 16th Ave., Bldg 100 City: Ocala
State: FL Zip Code: 34471 Phone # (352) 387-4540
Email address: permits@tillmaneng.com

D. WAIVER INFORMATION:
Section & Title of Code (be specific): 6.13.3 - Type of Stormwater Facility Criteria
Reason/Justification for Request (be specific): A waiver is requested to reduce berm width from 12' to 5'. The ponds will be privately owned and maintained by an HOA.

DEVELOPMENT REVIEW USE:
Received By: Email 9/12/24 Date Processed: 9/12/24 BM Project # 2006060068 AR # 31694

ZONING USE: Parcel of record: Yes ☐ No ☐ **Eligible to apply for Family Division: Yes ☐ No ☐**
Zoned: ESOZ: P.O.M. Land Use: **Plat Vacation Required: Yes ☐ No ☐**
Date Reviewed: Verified by (print & initial):

Revised 6/2021

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

DEVELOPMENT REVIEW COMMITTEE WAIVER REQUEST FORM

Section & Title of Code (be specific) 6.12.9 - Subdivision roads and related infrastructure
Reason/Justification for Request (be specific): A waiver request for curve that does not meet the 30 mph design speed requirement. Staff indicated support of waiver subject to providing the appropriate warning signage per MUTCD.

Section & Title of Code (be specific) 2.12.8 - Topographical Contours
Reason/Justification for Request (be specific): A waiver is requested for survey more than 1 year old. Site topography is consistant with the survey provided by JCH on 2/17/22.

Section & Title of Code (be specific) 6.12.11 - Turn Lanes
Reason/Justification for Request (be specific): Waiver to defer approve onsite improvement plans prior to approval of offsite turn lanes which will be submitted under separate plan set

Section & Title of Code (be specific) 6.12.2.A - Right of Way Width
Reason/Justification for Request (be specific): Roadways will remain private & ROW width will be 30' wide with a 15' drainage and utility easement for a total width of 60'. The r/w is consistent with the approved PUD and that the required 20' separations from building pads to utilities has been adhered to.

Section & Title of Code (be specific)
Reason/Justification for Request (be specific):

Section & Title of Code (be specific)
Reason/Justification for Request (be specific):

Section & Title of Code (be specific)
Reason/Justification for Request (be specific):

Revised 6/2021

WOODRIDGE PLACE

IMPROVEMENT PLAN

SECTION 28, TOWNSHIP 14 SOUTH, RANGE 22 EAST
MARION COUNTY, FLORIDA

PERMITS:

1. MARION COUNTY - PRELIMINARY PLAT
2. MARION COUNTY - IMPROVEMENT PLAN
3. S.W.F.W.M.D. - E.R.P. - PENDING
4. FDEP - POTABLE WATER - PENDING
5. FDEP - SANITARY SEWER - PENDING
6. FDEP - NPDES (BY OTHERS)

WAIVERS:

NOTES:

1. BASED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S FLOOD INSURANCE RATE MAP (FIRM), COMMUNITY PANEL NO. 12083C0530E, EFFECTIVE APRIL 19 2017, THE PROPERTY DESCRIBED HEREON LIES WITHIN FLOOD ZONE "X" AN AREA OF MINIMAL FLOOD HAZARD.
2. ALL UTILITIES UNDER EXISTING OR PROPOSED PAVEMENT SHALL BE SLEEVED IN ACCORDANCE WITH SECTION B.2.6A 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 FDOT REQUIREMENTS.
5. VERTICAL DATUM IS BASED ON NATIONAL GEODETIC SURVEY CONTROL POINT "T 447", ELEVATION = 71.37' (NAVD-1988).
6. DESIGN SPEED = 20 M.P.H. TO BE POSTED AT 20 M.P.H. EXCEPT FOR CURVES AS DEPICTED ON SIGNAGE & STRIPING PLAN
7. THIS PROPOSED PROJECT HAS NOT BEEN GRANTED CONCURRENCY APPROVAL AND/OR GRANTED AND/OR RESERVED ANY PUBLIC FACILITY CAPACITIES. FUTURE RIGHTS TO DEVELOP THE PROPERTY ARE SUBJECT TO A DEFERRED CONCURRENCY DETERMINATION, AND FINAL APPROVAL TO DEVELOP THE PROPERTY HAS NOT BEEN OBTAINED. THE COMPLETION OF CONCURRENCY REVIEW AND/OR APPROVAL HAS BEEN DEFERRED TO LATER DEVELOPMENT REVIEW STAGES, SUCH AS, BUT NOT LIMITED TO IMPROVEMENT PLAN, FINAL PLAT, OR BUILDING 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 COORDINATES SHOWN HEREON ARE BASED ON THE FLORIDA STATE PLANE 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 (#1007) - FOUND 4"X4"CONCRETE MONUMENT (LS 2418), NORTHING = 1785352.7930 EASTING = 618669.9590
ELEVATION = 68.57' (NAVD 1988)

TEMPORARY BENCHMARK (#1005) - FOUND 4"X4" CONCRETE MONUMENT (NO ID), NORTHING = 1786659.7460 EASTING = 618991.0440
ELEVATION = 73.66' (NAVD 1988)

LEGAL DESCRIPTION:

TRACT NO.1
BEGINNING AT A CONCRETE MONUMENT AT THE SE. CORNER OF THE NE. 1/4 OF THE SW. 1/4 OF SECTION 28, TOWNSHIP 14 SOUTH, RANGE 22 EAST, MARION COUNTY, FLORIDA AND PROCEED S.09°50'37"W., ALONG THE SOUTH BOUNDARY LINE OF THE NE. 1/4 OF THE SW. 1/4, A DISTANCE OF 1770.57 FEET TO A CONCRETE MONUMENT; THENCE DEPARTING SAID SOUTH BOUNDARY LINE, N.00°09'23"W., A DISTANCE OF 209.78 FEET TO A CONCRETE MONUMENT; THENCE S.89°52'10"W., ALONG THE NORTH BOUNDARY LINE OF PARCEL #14971-002-00, A DISTANCE OF 369.24 FEET TO A CONCRETE MONUMENT ON THE EASTERLY RIGHT-OF-WAY LINE OF STATE ROAD 200, NE. JACKSONVILLE ROAD, AND OLD U.S. HIGHWAY 301, BEING 100 FEET WIDE, THENCE N.13°21'20"E., ALONG SAID EASTERLY RIGHT-OF-WAY, A DISTANCE OF 41.13 FEET TO AN IRON ROD & CAP, STAMPED P.L.S. 2418; THENCE DEPARTING SAID EASTERLY RIGHT-OF-WAY LINE, N.89°52'10"E., A DISTANCE OF 376.86 FEET TO AN IRON ROD & CAP, STAMPED P.L.S. 2418; THENCE S.45°07'40"E., A DISTANCE OF 56.57 FEET TO AN IRON ROD & CAP, STAMPED P.L.S. 2418, THENCE N.89°52'10"E., A DISTANCE OF 429.47 FEET TO AN IRON ROD & CAP, STAMPED P.L.S. 2418, THENCE N.00°08'49"W., A DISTANCE OF 291.81 FEET TO AN IRON ROD & CAP, STAMPED P.L.S 2418, AT THE SW. CORNER OF PARCEL #14971-001-03; THENCE N.89°51'28"E., ALONG AN EASTERLY EXTENSION OF AND THE SOUTH BOUNDARY LINE OF PARCEL #14971-001-03, A DISTANCE OF 1284.53 FEET TO A POINT-OF-INTERSECTION WITH THE EAST BOUNDARY LINE OF THE AFORESAID NE.1/4 OF THE SW.1/4 OF SECTION 28 AND THE WEST BOUNDARY LINE OF THE FORE ACRES NORTH, FIRST ADDITION AS PER PLAT BOOK "S", PAGES 78 THROUGH 80 OF THE PUBLIC RECORDS OF MARION COUNTY, FLORIDA; THENCE S.00°03'20"E., ALONG SAID EAST BOUNDARY LINE AND SAID WEST BOUNDARY LINE, A DISTANCE OF 501.06 FEET TO THE CONCRETE MONUMENT AT THE POINT-OF-BEGINNING. SAID TRACT NO. 1, LYING AND BEING SITUATE IN MARION COUNTY, FLORIDA.

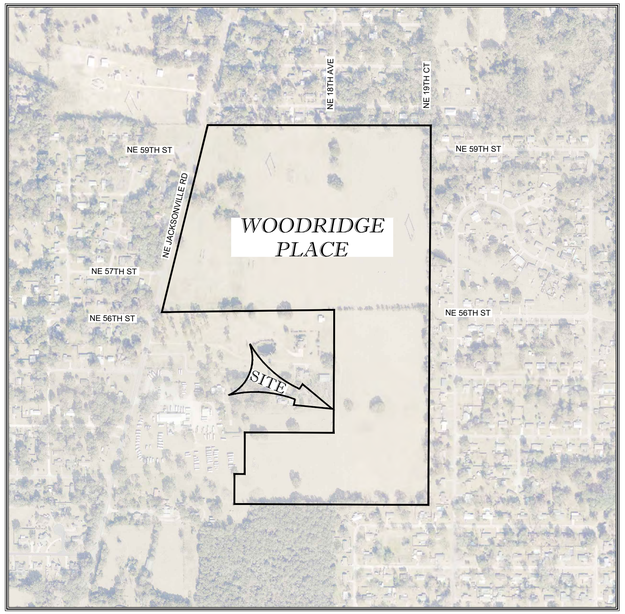
LESS AND EXCEPT:
COMMENCING AT A CONCRETE MONUMENT AT THE SE. CORNER OF THE NE. 1/4 OF THE SW. 1/4 OF SECTION 28, TOWNSHIP 14 SOUTH, RANGE 22 EAST, MARION COUNTY, FLORIDA AND PROCEED S.89°50'37"W., ALONG THE SOUTH BOUNDARY LINE OF THE NE. 1/4 OF THE SW. 1/4, A DISTANCE OF 1770.57 FEET TO A CONCRETE MONUMENT, THENCE DEPARTING SAID SOUTH BOUNDARY LINE, N.00°09'23"W., A DISTANCE OF 209.78 FEET TO A CONCRETE MONUMENT AND THE POINT OF BEGINNING, THENCE S.89°52'10"W., ALONG THE NORTH BOUNDARY LINE OF PARCEL #14971-002-00, A DISTANCE OF 369.24 FEET TO A CONCRETE MONUMENT ON THE EASTERLY RIGHT OF WAY LINE OF STATE ROAD 200, NE. JACKSONVILLE ROAD, AND OLD U.S. HIGHWAY 301, BEING 100 FEET WIDE. THENCE N.13°21'20"E., ALONG SAID EASTERLY RIGHT OF WAY, A DISTANCE OF 41.13 FEET TO AN IRON ROD & CAP, STAMPED P.L.S. 2418, THENCE DEPARTING SAID EASTERLY RIGHT OF WAY LINE, N.89°52'10"E., A DISTANCE OF 376.86 FEET TO AN IRON ROD & CAP, STAMPED P.L.S. 2418; THENCE S.45°07'40"E., A DISTANCE OF 56.57 FEET TO AN IRON ROD & CAP, STAMPED P.L.S. 2418, THENCE S.89°52'10"W., ALONG THE NORTH BOUNDARY LINE OF PARCEL #14971-004-00, A DISTANCE 57.21 FEET TO THE POINT BEGINNING.

AND LESS AND EXCEPT
COMMENCING AT A CONCRETE MONUMENT AT THE SE. CORNER OF THE NE. 1/4 OF THE SW. 1/4 OF SECTION 28, TOWNSHIP 14 SOUTH, RANGE 22 EAST, MARION COUNTY, FLORIDA AND PROCEED S.89°50'37"W., ALONG THE SOUTH BOUNDARY LINE OF THE NE. 1/4 OF THE SW. 1/4, A DISTANCE OF 1355.22 FEET TO THE POINT OF BEGINNING. THENCE CONTINUE ALONG SAID SOUTH BOUNDARY LINE, S.89°50'37"W., A DISTANCE OF 415.35 FEET TO A CONCRETE MONUMENT; THENCE DEPARTING SAID SOUTH BOUNDARY LINE, N.00°09'23"W., A DISTANCE OF 209.78 FEET TO A CONCRETE MONUMENT; THENCE N.89°52'10"E., ALONG THE NORTH BOUNDARY LINE OF PARCEL #14971-004-00, A DISTANCE OF 415.35 FEET; THENCE DEPARTING SAID NORTH BOUNDARY, S.00°09'23"W., ALONG THE EAST BOUNDARY OF PARCEL #14971-004-00, A DISTANCE OF 209.59 FEET TO THE POINT OF BEGINNING.

TRACT NO.2
COMMENCING AT A CONCRETE MONUMENT AT THE SE. CORNER OF THE NE. 1/4 OF THE SW. 1/4 OF SECTION 28, TOWNSHIP 14 SOUTH, RANGE 22 EAST, MARION COUNTY, FLORIDA AND PROCEED N.00°03'20"W., ALONG THE EAST BOUNDARY LINE OF THE NE. 1/4 OF THE SW. 1/4, AND ALONG WEST BOUNDARY LINE OF FORE ACRES NORTH, FIRST ADDITION AS PER PLAT BOOK "S", PAGES 78 THROUGH 80 OF THE PUBLIC RECORDS OF MARION COUNTY, FLORIDA, A DISTANCE OF 501.06 FEET TO THE POINT-OF-BEGINNING OF TRACT NO.2 AS DESCRIBED HEREIN; THENCE DEPARTING FROM SAID EAST BOUNDARY LINE, S.89°51'28"W., ALONG AN EASTERLY EXTENSION OF PARCEL #14971-001-03, A DISTANCE OF 664.64 FEET TO AN IRON ROD & CAP, STAMPED P.L.S. 2418, AT THE SE. CORNER OF SAID PARCEL #14971-001-03; THENCE N.00°06'48"W., ALONG THE EAST BOUNDARY LINE OF SAID PARCEL #14971-001-03, A DISTANCE OF 330.49 FEET TO AN IRON ROD & CAP, STAMPED P.L.S. 2418, AT THE NE. CORNER OF SAID PARCEL #14971-001-03, THENCE S.89°51'28"W., ALONG THE NORTH BOUNDARY LINE OF SAID PARCEL #114971-001-03, A DISTANCE OF 620.09 FEET TO A POINT OCCUPIED BY 35" OAK TREE; THENCE S.00°08'49"E., ALONG THE WEST BOUNDARY LINE OF SAID PARCEL #14971-001-03, A DISTANCE OF 45.00 FEET TO AN IRON ROD & CAP, STAMPED P.L.S. 2418, THENCE S.89°51'11"W., A DISTANCE OF 45.00 FEET TO AN IRON ROD & CAP, STAMPED P.L.S. 2418; THENCE N.00°10'20"W., A DISTANCE OF 117.96 FEET TO AN IRON ROD & CAP, STAMPED P.L.S. 2418; THENCE S.89°17'18"W., A DISTANCE OF 390.28 FEET TO AN IRON ROD & CAP, STAMPED P.L.S. 2418, THENCE N.00°02'23"E., A DISTANCE OF 130.05 FEET TO AN IRON ROD & CAP, STAMPED P.L.S. 2418, THENCE S.88°33'22"W., A DISTANCE OF 225.27 FEET TO AN IRON ROD & CAP, STAMPED P.L.S. 2418, ON THE AFORESAID EASTERLY RIGHT-OF-WAY LINE OF STATE ROAD 200; THENCE N.13°22'13"E., ALONG SAID EASTERLY RIGHT-OF-WAY LINE, A DISTANCE OF 321.24 FEET TO AN CONCRETE MONUMENT, STAMPED P.L.S. 2418, THENCE DEPARTING SAID EASTERLY RIGHT-OF-WAY LINE, N.88°49'00"E., A DISTANCE OF 550.36 FEET TO A CONCRETE MONUMENT, STAMPED P.L.S. 2418, THENCE S.00°08'49"E., ALONG THE WEST BOUNDARY LINE OF PARCEL #14971-001-02, A DISTANCE OF 306.75 FEET TO AN IRON ROD & CAP, STAMPED P.L.S. 2418, THENCE N.89°51'11"E., ALONG THE SOUTH BOUNDARY LINE OF SAID PARCEL #14971-001-02, A DISTANCE OF 96.53 FEET TO AN IRON ROD & CAP, STAMPED P.L.S. 2418, THENCE S.00°08'49"E., ALONG SAID SOUTH BOUNDARY LINE, A DISTANCE OF 12.00 FEET TO AN IRON ROD & CAP, STAMPED P.L.S. 2418, THENCE N.89°51'11"E., ALONG SAID SOUTH BOUNDARY LINE, A DISTANCE OF 558.42 FEET TO AN IRON ROD & CAP, STAMPED P.L.S. 2418, AT THE SE. CORNER OF SAID PARCEL #14971-001-02; THENCE N.00°06'48"W., A DISTANCE OF 330.60 FEET TO AN IRON ROD & CAP, STAMPED P.L.S. 2418, AT THE NE. CORNER OF SAID PARCEL #14971-001-02, THENCE N.88°49'00"E., A DISTANCE OF 665.64 FEET TO A CONCRETE MONUMENT, NO IDENTIFICATION STAMPED THEREON, AT THE SW. CORNER OF LOT 7, BLOCK "A" OF FORE ACRES NORTH, FIRST ADDITION AS PER PLAT BOOK "S", PAGES 78 THROUGH GO OF THE PUBLIC RECORDS OF MARION COUNTY, FLORIDA; THENCE S.00°03'20"E., ALONG THE WEST BOUNDARY LINE OF SAID FORE ACRES NORTH, FIRST ADDITION, AND ALONG THE EAST BOUNDARY LINE OF THE NE. 1/4 OF THE SW. 1/4 OF SAID SECTION 28, A DISTANCE OF 870.86 FEET TO THE POINT-0F-BEGINNING. SAID TRACT NO.2, LYING AND BEING SITUATE IN MARION COUNTY, FLORIDA.

A PORTION OF THE SW 1/4 OF THE NW 1/4 OF SECTION 28, TOWNSHIP 14 SOUTH, RANGE 22 EAST, MARION COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:
BEGIN AT THE NORTHEAST CORNER OF THE S.W. 1/4 OF THE N.W. 1/4 OF SAID SECTION 28; THENCE S.89°39'13"W., ALONG THE NORTH BOUNDARY OF SAID S.W. 1/4, 231.75 FEET TO A POINT ON THE EASTERLY RIGHT OF WAY LINE OF N.E. JACKSONVILLE ROAD (100 FEET WIDE); THENCE S.13°20'46"W., ALONG SAID EASTERLY RIGHT OF WAY LINE 1347.02 FEET; THENCE DEPARTING SAID RIGHT OF WAY LINE. N.88°47'28"E., 550.47 FEET TO A POINT ON THE EAST BOUNDARY OF SAID S.W. 1/4, THENCE N.00°20'19"W., ALONG SAID EAST BOUNDARY, 1300.45 FEET TO THE POINT OF BEGINNING. AND A PORTION OF THE SE 1/4 OF THE NW 1/4 OF SECTION 28, TOWNSHIP 14 SOUTH, RANGE 22 EAST, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCING AT A CONCRETE MONUMENT AT THE SE CORNER OF THE NE 1/4 OF THE SW 1/4 OF SECTION 28, TOWNSHIP 14 SOUTH, RANGE 22 EAST, AND PROCEED N.00°03'20"W., ALONG THE EAST BOUNDARY LINE OF THE WEST 1/2 OF SAID SECTION 28, A DISTANCE OF 1371.41 FEET TO A CONCRETE MONUMENT AT THE SW CORNER OF LOT 7, BLOCK A, FORE ACRES NORTH, FIRST ADDITION, AS PER PLAT BOOKS, PAGES 78 THROUGH 80 OF THE PUBLIC RECORDS OF MARION COUNTY, FLORIDA, SAID CONCRETE MONUMENT BEING THE POINT OF BEGINNING OF PARCEL III-B AS DESCRIBED HEREIN; THENCE CONTINUE N.00°03'20"W., ALONG THE SAID EAST BOUNDARY LINE AND ALONG THE WEST BOUNDARY LINE OF SAID FORE ACRES NORTH, FIRST ADDITION, A DISTANCE OF 1280.81 FEET TO A CONCRETE MONUMENT AT THE NE CORNER OF THE SE 1/4 OF THE NW 1/4 OF SAID SECTION 28; THENCE S.89°39'29"W., ALONG THE NORTH BOUNDARY LINE OF THE SE 1/4 OF THE NW 1/4 OF SAID SECTION 28, AND ALONG THE SOUTH BOUNDARY LINE OF MARION HIGHLANDS AS PER PLAT BOOK D, PAGE 16 OF SAID PUBLIC RECORDS, A DISTANCE OF 1326.90 FEET TO AN IRON ROD AND CAP; THENCE S.00°19'52"E., A DISTANCE OF 1300.50 FEET TO A CONCRETE MONUMENT; THENCE N.88°48'07"E., A DISTANCE OF 1320.89 FEET TO THE CONCRETE MONUMENT AT THE POINT OF BEGINNING.

THIS SITE CONTAINS:
RESIDENTIAL LOTS = 261
TOTAL MILES OF ROADWAY = 2.49 MILES
PROJECT AREA = 79.21 ±AC.
PARCELS: PORTION OF # 14973-000-00 & 14971-001-00
ZONING - PUD
FLU - MR
LAND USE - MEDIUM DENSITY RESIDENTIAL (MR)
EXISTING IMPERVIOUS AREA: 0.00 AC. (0.00 S.F.) (0.00%)
PROPOSED IMPERVIOUS AREA: ± 39.32 AC. (1,712,831 S.F.)(49.64%)
AVERAGE DAILY TRIPS (210) = 2,514 TRIPS
PEAK HOUR TRIPS (210) = 256 TRIPS
ITE TRIP GENERATION MANUAL 10TH EDITION



VICINITY MAP
SCALE: 1" = 500'

UTILITY COMPANIES:

WATER / SEWER	MARION COUNTY UTILITIES	JOSH KRAMER	352-438-2383
ELECTRIC	OCALA ELECTRIC UTILITIES	JASON RHODES	352-351-6620
CABLE / PHONE / INTERNET			

INDEX OF SHEETS

01.01	COVER
02.01	GENERAL NOTES
03.01	AERIAL PHOTOGRAPH
04.01	MASTER DRAINAGE PLAN
05.01 - 05.02	MASTER UTILITY PLAN
06.01 - 06.07	GEOMETRY PLAN
07.01	SIGNAGE & STRIPING PLAN
08.01 - 08.07	LOT GRADING PLAN
09.01 - 09.17	PLAN & PROFILE
10.01	POTABLE WATER DISTRIBUTION DETAILS
11.01	SANITARY SEWER DETAILS
12.01 - 12.02	LIFT STATION DETAILS
13.01	ROADWAY & PAVEMENT DETAILS
14.01	DRAINAGE DETAILS
15.01	EROSION CONTROL PLAN AND DETAILS
RN.01	911 MANAGEMENT PLAN
SL.01	SLEEVING PLAN
BL.01 - BL.02	BORING LOGS
1-1	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.

HARVEY VANDEVEN
HTM DEVELOPERS LLC

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. 69905
STATE OF FLORIDA

SURVEYOR'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. 6353
STATE OF FLORIDA

OWNER / DEVELOPER:
HTM DEVELOPERS LLC
HARVEY VANDEVEN
4349 SE 20TH ST.
OCALA, FLORIDA 34471
PHONE (352) 895-3687

CIVIL ENGINEER:
TILLMAN AND ASSOCIATES ENGINEERING, LLC
JEFFREY McPHERSON, P.E.
1720 SE 16th AVE. BLDG. 100
OCALA, FLORIDA 34471
PHONE: (352) 387-4540

SURVEYOR:
JCH CONSULTING GROUP, INC.
CHRISTOPHER J. HOWSON, P.S.M, CFM
426 S.W. 15TH STREET
OCALA, FLORIDA 34471
PHONE: (352) 405-1482

GEOTECHNICAL CONSULTANT:
GEO-TECH, INC.
NASH J. HEATH, P.E.
1016 S.E. 3RD AVENUE
OCALA, FLORIDA 34471
PHONE (352) 694-7711

NOT VALID UNLESS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER

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Marion County Approval Stamp

Tillman & Associates ENGINEERING, LLC
CIVIL ENGINEERING - PLANNING - LANDSCAPE ARCHITECTURE - ENVIRONMENTAL
1720 SE 16th Ave. Bldg 100, Ocala, FL 34471
Office: (352) 387-4540 Fax: (352) 387-4545
CERTIFICATE OF AUTHORIZATION #26756

REVISIONS
DATE

IMPROVEMENT PLAN
WOODRIDGE PLACE
MARION COUNTY, FLORIDA

COVER

DATE 7/10/2024
DRAWN BY AS
CHKD. BY JMM
JOB NO. 22-8136

SHT. 01.01

GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF SIZE AND LOCATION OF ALL EXISTING UTILITIES AND RELATED CONSTRUCTION PRIOR TO COMMENCEMENT OR WORK.CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FLORIDA, INC. AT 1-800-432-4770, IN ACCORDANCE WITH CHAPTER 556, FLORIDA STATUTES.
2. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THE LATEST STANDARDS OF ***MARION COUNTY*** AND FDOT.
3. PAVEMENT STRIPING TO BE IN ACCORDANCE WITH ***MARION COUNTY*** SPECIFICATIONS AND WITH THE FLORIDA D.O.T. ROADWAY & TRAFFIC STANDARDS, INDEX 17346.
4. ALL TRAFFIC CONTROL SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
5. WHERE MUCK OR OTHER ORGANIC MATERIAL IS FOUND, IT SHALL BE REMOVED AND REPLACED BY GOOD QUALITY BACKFILL MATERIAL OBTAINED FROM THE GRADING OPERATIONS OR OTHER SOURCE APPROVED BY THE ENGINEER. THE ORGANIC MATERIAL SHALL BE THEN USED AS TOP DRESSING WHEN MIXED WITH CLEAN SANDY SOIL.
6. ALL FINISHED GRADES AND ELEVATIONS ARE AS DENOTED BY THE APPLICABLE LEGEND.
7. AS PART OF THE CLEARING AND GRUBBING OPERATION, THE CONTRACTOR IS TO REMOVE EXISTING FACILITIES AND / OR FENCING FROM THE SITE AS SHOWN ON PLANS.
8. THE CONTRACTOR SHALL NOTIFY ***MARION COUNTY*** ENGINEERING DIVISION AND TILLMAN AND ASSOCIATES ENGINEERING, LLC AT LEAST ONE WEEK BEFORE COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR SHALL OBTAIN A MARION COUNTY R/W PERMIT PRIOR TO COMMENCING WORK WITHIN MARION COUNTY R/W's.
9. A MINIMUM SEPARATION OF 1.5 FEET BETWEEN THE LIMEROCK BASE AND THE HIGHEST GROUNDWATER ELEVATION SHALL BE MAINTAINED WITHIN THE RIGHT-OF-WAY. CONTRACTOR TO NOTIFY ENGINEER IF 1.5 FEET OF SEPARATION IS NOT ACHIEVED.
10. A PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
11. PER SECTION 82-371, CODE OF ORDINANCES: FOR ANY WORK WITHIN PUBLIC RIGHT OF WAYS, A RIGHT OF WAY UTILIZATION PERMIT MUST BE OBTAINED FROM THE ENGINEERING DEPARTMENT A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
12. THE CONTRACTOR SHALL SUBMIT THREE (3) SETS OF STANDARD SHOP DRAWINGS AND MANUFACTURER'S CATALOGS WITH THE MODEL NUMBER OR TYPE OF THE ITEM ENCIRCLED OR OTHERWISE DESIGNATED. THE SUBMITTALS SHALL BEAR THE APPROVAL OF THE UNDERGROUND UTILITY CONTRACTOR. ALL UTILITY SHOP DRAWINGS AND MANUFACTURER'S CATALOGS SHALL BE APPROVED BY THE ENGINEER OF RECORD AND MARION COUNTY PRIOR TO CONSTRUCTION.
13. ALL AS-BUILTS SHALL COMPLY WITH THE CURRENT LDC, SECTION 6.14.8 AND RETURNED IN NAD83 W. FORMAT WITH NORTHING AND EASTING COORDINATES FOR ALL ITEMS UNDER WATER AND WASTEWATER COMPONENTS.
14. MCU PERSONNEL ARE TO INSPECT ANY WORK PERFORMED ON OR AROUND EXISTING MCU INFRASTRUCTURE. A PRE-CONSTRUCTION MEETING IS REQUIRED TO BE HELD A MINIMUM OF 48 HOURS PRIOR TO START OF ANY CONSTRUCTION. IF THE PRE-CONSTRUCTION MEETING IS NOT COMPLETED, ANY WORK MAY BE HALTED. TO SCHEDULE, CONTACT MCU'S CONSTRUCTION OFFICER AT 352-307-6163.

PAVING AND DRAINAGE NOTES

1. PIPE LENGTHS SHOWN REPRESENT SCALED DISTANCE BETWEEN CENTERLINES OF DRAINAGE STRUCTURES.
2. ALL PAVEMENT RETURN RADII SHALL BE 28' AND MEASURED FROM THE INTERFACE OF THE CONCRETE CURB AND PAVEMENT SURFACE UNLESS OTHERWISE NOTED.
3. DITCH BOTTOM AND CONTROL STRUCTURE INLET GRATES SHALL BE SECURED WITH CHAIN AND EYEBOLT.
4. FIVE (5) FEET OF SOD IS REQUIRED AROUND ALL DITCH BOTTOM INLETS, MANHOLES, HEADWALLS AND MITERED END SECTIONS.
5. TOP ELEVATIONS OF MANHOLES IN GRASSED AREAS SHALL BE LOCATED AT FINISHED GRADE ELEVATION.
6. AS AN ALTERNATIVE, CONTRACTOR MAY USE ALTERNATIVE PIPE MATERIALS IN LIEU OF RCP. HOWEVER, CONTRACTOR MUST RECEIVE APPROVAL OF ALTERNATIVE PIPE MATERIALS IN WRITING BY ***MARION COUNTY*** AND TILLMAN & ASSOCIATES ENGINEERING, LLC PRIOR TO CONSTRUCTION.
7. TOP SOIL WHICH HAS BEEN STRIPPED AND STOCK PILED DURING THE COURSE OF CONSTRUCTION SHALL BE REDISTRIBUTED ON ALL REGRADED SURFACES SO AS TO PROVIDE AT LEAST FOUR INCHES OF EVEN COVER TO ALL DISTURBED AREAS OF THE DEVELOPMENT AND SHALL BE STABILIZED BY SEEDING OR PLANTING
8. ALL DISTURBED AREAS WITH SLOPES UP TO 6:1 SHALL BE SEEDED AND MULCHED. SLOPES STEEPER THAN 6:1 SHALL BE SODDED AND SLOPES 3:1 OR STEEPER SHALL HAVE THE SOD PEGGED.
9. SEE TABLE 2.0 FOR REQUIRED STORM PIPE COVER BENEATH AN UNPAVED SECTION.
10. SEE TABLE 3.0 FOR REQUIRED STORM PIPE COVER BENEATH RIGID PAVEMENT.
11. SEE TABLE 4.0 FOR REQUIRED STORM PIPE COVER BENEATH FLEXIBLE PAVEMENT
12. THE TABULATED VALUES ARE RECOMMENDED MINIMUM DIMENSIONS TO WITHSTAND ANTICIPATED HIGHWAY TRAFFIC LOADS. ADDITIONAL COVER MAY BE REQUIRED TO SUPPORT CONSTRUCTION EQUIPMENT LOADS OR HIGHWAY TRAFFIC LOADS BEFORE PAVEMENT IS COMPLETED. SOME SIZE THICKNESS COMBINATIONS MAY REQUIRE MINIMUM COVER GREATER THAN THOSE LISTED ABOVE. SEE FDOT INDEX 205, SHEETS 1-6.
13. ALL RCP STORM WATER PIPE SHALL MEET THE COVER & CLASS CRITERIA AS OUTLINED IN FDOT INDEX 205.
14. ALL STORM PIPE JOINTS SHALL BE WRAPPED AS SPECIFIED IN FDOT INDEX 280.
15. THE LAST FOOT OF STORM WATER POND SHALL NOT BE EXCAVATED UNTIL ALL DISTURBED AREAS ARE STABILIZED.
16. ANY FILL MATERIAL MUST BE APPROVED BY ENGINEER IN WRITING PRIOR TO PLACEMENT.
17. SIGNIFICANT CARE MUST BE TAKEN WHEN GRADING RETENTION PONDS TO ENSURE THAT POND BOTTOMS DO NOT BECOME COMPACTED DURING CONSTRUCTION OR SEALED BY CONSTRUCTION SEDIMENT. IF SEDIMENTATION OR COMPACTION OF A POND BOTTOM OCCURS, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESTORE THE DESIGN HYDRAULIC CONDUCTIVITY.

SANITARY SEWER NOTES

1. ALL MATERIALS AND CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE ***MARION COUNTY*** LDC FOR WASTEWATER CONSTRUCTION.
2. ALL SANITARY SEWER CONSTRUCTION AND MATERIALS WITHIN R/W OR EASEMENT TO BE OWNED AND MAINTAINED BY MARION COUNTY UTILITIES.
3. ALL MANHOLES SHALL BE 4 FT. INSIDE DIAMETER.
4. PIPE LENGTHS SHOWN REPRESENT SCALED DISTANCES BETWEEN MANHOLE CENTERLINE.
5. ALL SANITARY SERVICE LATERALS SHALL BE 6 INCH DIAMETER, UNLESS SPECIFIED OTHERWISE ON PLANS.
6. INVERTS OF SANITARY SERVICE LATERALS AT THEIR CONNECTION TO SANITARY MANHOLES SHALL BE NO MORE THAN ONE (1) FOOT ABOVE THE MANHOLE INVERT.
7. MINIMUM AS BUILT 8" PVC SEWER LINE SLOPE WILL BE 0.40% MINIMUM SLOPE OR WILL BE RELAID BY CONTRACTOR TO MEET THE MINIMUM SLOPE REQUIREMENT AT NO ADDITIONAL COST.
8. MARK LATERALS BY ETCHING AN "S" INTO CURBING.
9. PIPE MATERIAL IS ASTM D3034, SDR-26 UNLESS OTHERWISE NOTED.
10. A MINIMUM 1.04% SLOPE SHALL BE MAINTAINED ON THE SANITARY SEWER SERVICE LATERALS. AT NO TIME SHALL A SANITARY SEWER LATERAL HAVE A SLOPE OF 15% OR GREATER.
11. SANITARY SEWER GRAVITY MAINS ARE TO BE UPGRADED IN MATERIAL TO WATER MAIN STANDARDS AND HYDROSTATICALLY PRESSURE TESTED WITH WATER TO ENSURE JOINT TIGHTNESS IF EITHER OF THE HORIZONTAL OR VERTICAL MINIMUM REQUIRED CLEARANCE FROM A WATER MAIN CANNOT BE MAINTAINED OR IF THE SEWER MAIN IS ABOVE THE WATER MAIN. UPGRADE TO MATERIAL CANNOT BE MADE WITHOUT PRIOR APPROVAL FROM FDEP.
12. SANITARY SEWER GRAVITY MAINS ARE TO BE UPGRADED IN MATERIAL TO WATER MAIN STANDARDS AND HYDROSTATICALLY PRESSURE TESTED WITH WATER TO ENSURE JOINT TIGHTNESS IF EITHER OF THE HORIZONTAL OR VERTICAL MINIMUM REQUIRED CLEARANCE FROM A WATER MAIN CANNOT BE MAINTAINED OR IF THE SEWER MAIN IS ABOVE THE WATER MAIN.
13. LEAKAGE TEST ARE SPECIFIED REQUIRING THAT
    A) THE LEAKAGE EXFILTRATION OR INFILTRATION DOES NOT EXCEED 200 GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY FOR ANY SECTION OF THE SYSTEM.
    B) EXFILTRATION OR INFILTRATION TESTS BE PERFORMED WITH A MINIMUM POSITIVE HEAD OF 2 FEET.
    C) AIR TESTS, AS MINIMUM, CONFORM TO THE TEST PROCEDURE DESCRIBED IN ASTM C-924 FOR CONCRETE PIPE, ASTM F-1417 FOR PLASTIC PIPE AND FOR OTHER MATERIALS APPROPRIATE TEST PROCEDURES, AIR TESTING, IF SPECIFIED FOR CONCRETE SEWER MANHOLES, CONFORMS TO THE TEST PROCEDURES DESCRIBED IN ASTM C-1244.
14. DEFLECTION TESTS SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES, CHAPTER 33.85, FOR ALL GRAVITY SANITARY SEWER LINES. TESTING IS REQUIRED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS TO PERMIT STABILIZATION OF THE SOIL-PIPE SYSTEM.TESTING REQUIREMENTS SPECIFY:
    1) NO PIPE SHALL EXCEED A DEFLECTION OF 5%.
    2) USING A RIGID BALL OR MANDREL FOR THE PIPE DEFLECTION TESTS WITH A DIAMETER NOT LESS THAN 95% OF THE BASE INSIDE DIAMETER OR AVERAGE INSIDE DIAMETER OF THE PIPE, DEPENDING ON WHICH IS SPECIFIED IN THE ASTM SPECIFICATION, INCLUDING THE APPENDIX, TO WHICH THE PIPE IS MANUFACTURED.
    3) PERFORMING THE TEST WITHOUT MECHANICAL PULLING DEVICES.
15. TESTING OF THE SEWAGE COLLECTION SYSTEM IS AS FOLLOWS:
    A. ALL GRAVITY SEWER MAINS REQUIRE LOW PRESSURE AIR TESTING IN ACCORDANCE WITH THE LATEST UNI-BELL STANDARD FOR LOW PRESSURE AIR TESTS. AIR TEST, AS A MINIMUM, SHALL CONFORM TO THE TEST PROCEDURES DESCRIBED IN ASTM SPECIFICATIONS, ASTM F1417 FOR PLASTIC PIPE.
    B. ALL SEWER MAINS SHALL BE LAMPED BY IN THE PRESENCE OF A ***MARION COUNTY*** REPRESENTATIVE.
    C. ALL MANHOLES SHALL BE INSPECTED FOR INFILTRATION, ALIGNMENT, FLOW CHANNEL CONSTRUCTION AND COAL TAR EPOXY PAINT THROUGHOUT.
    D. HYDRO-STATIC TESTS CONSISTING OF A HYDROSTATIC PRESSURE TEST AND HYDROSTATIC LEAKAGE TEST SHALL BE CONDUCTED ON ALL NEWLY INSTALLED SEWER FORCE MAIN SYSTEM PRESSURE PIPES AND APPURTENANCES IN ACCORDANCE WITH AWWA C600 OR M23 AS APPLICABLE. THE PRESSURE SHALL BE 150 PSI FOR TWO (2) HOURS.
    E. DEFLECTION TEST ARE REQUIRED FOR ALL FLEXIBLE PIPE EXCLUDING FORCE MAINS. TESTS SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES.D MEASURED FROM THE INTERFACE TO THE CONCRETE CURB AND PAVEMENT SURFACE UNLESS OTHERWISE NOTED.
16. SANITARY SEWER SERVICES SHALL BE INSTALLED 10' FROM BACK OF CURB.
17. THE CONTRACTOR SHALL SUBMIT THREE (3) SETS OF COMPLETE DETAILED SHOP DRAWINGS FOR ALL SANITARY MANHOLES, WET WELLS, OTHER CASTINGS, AND PUMPS. THE SUBMITTALS SHALL BEAR THE APPROVAL OF THE UNDERGROUND UTILITY CONTRACTOR ON EACH SHEET. A COMPLETE SET OF THE LIFT STATION ELECTRICAL SHOP DRAWINGS IS ALSO REQUIRED IF APPLICABLE. ALL UTILITY SHOP DRAWINGS SHALL BE APPROVED BY THE ENGINEER OF RECORD AND ***MARION COUNTY*** PRIOR TO CONSTRUCTION.

WATER MAIN CONSTRUCTION NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN COMPLIANCE WITH AWWA STANDARDS AS WELL AS THE ***MARION COUNTY*** LDC FOR WATER MAIN CONSTRUCTION.
2. ALL WATER MAIN CONSTRUCTION AND MATERIALS WITHIN R/W OR EASEMENT TO BE OWNED AND MAINTAINED BY MARION COUNTY UTILITIES.
3. SEPARATION REQUIREMENTS (SEE TABLE 1.0-UTILITY SEPARATIONS)
   - 3.1. HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATER MAINS, SANITARY OR STORM SEWERS, WASTEWATER OR STORM WATER FORCE MAINS, RECLAIMED WATER PIPELINES AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS:
   - 3.1.1. NEW OR RELOCATED UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST 3' BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORM WATER FORCE MAIN OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
   - 3.1.2. NEW OR RELOCATED UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST 3' AND PREFERABLY 10' BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER.
   - 3.1.3. NEW OR RELOCATED UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST 6' AND PREFERABLY 10' BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610 F.A.C.. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS SHALL BE REDUCED TO 3' WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST 6" ABOVE THE TOP OF THE SEWER.
   - 3.2. VERTICAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORM WATER FORCE MAINS OR RECLAIMED WATER PIPELINES:
   - 3.2.1. NEW OR RELOCATED UNDERGROUND WATER MAINS CROSSING ANY GRAVITY OR VACUUM-TYPE SANITARY SEWER PIPE SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 6" AND PREFERABLY 12" ABOVE OR AT LEAST 12" BELOW THE OUTSIDE OF THE OTHER PIPE. IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
   - 3.2.2. NEW OR RELOCATED UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORM WATER FORCE MAIN OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12" ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
   - 3.2.3. AT THE UTILITY CROSSINGS DESCRIBED IN THE ABOVE PARAGRAPHS, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST 3' FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORM WATER FORCE MAINS OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AND AT LEAST 6' FROM ALL JOINTS IN GRAVITY OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C..
   - 3.3. NO WATER MAIN SHALL PASS THROUGH OR COME INTO CONTACT WITH ANY PART OF A SANITARY SEWER MANHOLE OR A STORM SEWER MANHOLE.
   - 3.4. NEW OR RELOCATED FIRE HYDRANTS WITH UNDERGROUND DRAINS SHALL BE LOCATED SO THAT THE DRAINS ARE AT LEAST 3' FROM ANY EXISTING OR PROPOSED STORM SEWER, STORM WATER FORCE MAIN OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AT LEAST 3' BUT PREFERABLY 10' FROM ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. AND AT LEAST 10' FROM ANY EXISTING OR PROPOSED ON-SITE SEWAGE TREATMENT OR DISPOSAL SYSTEM AS DEFINED IN SECTION 381.0065(2), F.S. AND RULE 64E-6.002, F.A.C..
   - 3.5. EXCEPTIONS / MITIGATION:
     ADHERENCE TO THE ABOVE CONSTRAINTS AND SEPARATIONS IN THE ABOVE ITEMS SHALL BE COMPLIED WITHOUT EXCEPTION. IF FOR SOME REASON WHERE IT IS NOT TECHNICALLY FEASIBLE OR ECONOMICALLY SENSIBLE THAT THE ABOVE ITEMS CANNOT BE COMPLIED WITH, CONTRACTOR IS TO STOP WORK AND NOTIFY THE ENGINEER OF RECORD FOR THE APPROPRIATE SOLUTION. THE SOLUTION WILL BE SUBMITTED TO THE DEPARTMENT OF ENVIRONMENTAL PROTECTION FOR APPROVAL PRIOR TO WORK COMMENCEMENT.
4. PIPE LENGTHS SHOWN REPRESENT SCALED DISTANCES BETWEEN FITTINGS OF BRANCHES AND MAINS.
5. DEFLECTIONS AT PIPE JOINTS SHALL NOT EXCEED THOSE RECOMMENDED BY THE PIPE MANUFACTURER.
6. ALL GATE VALVES SHALL BE EQUIPPED WITH AN ADJUSTABLE CAST IRON VALVE BOX WITH COVER, WITH THREADED EXTENSION WHERE NEEDED.
7. ALL PUBLIC WATER SYSTEMS COMPONENTS, EXCLUDING FIRE HYDRANTS, THAT SHALL BE INSTALLED UNDER THIS PROJECT, AND THAT SHALL COME INTO CONTACT WITH DRINKING WATER SHALL CONFORM TO NSF INTERNATIONAL STANDARD 61 AND SHALL BE MARKED WITH NSF SEAL OF APPROVAL.
8. ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT SHALL BE COLOR CODED MARKED IN ACCORDANCE WITH SUBPARAGRAPH 62-555.320(21)(b)3, F.A.C., USING BLUE AS A PREDOMINANT COLOR. ALL DUCTILE IRON WATER MAINS SHALL BE MARKED WITH A CONTINUOUS STRIPE LOCATED WITHIN THE TOP 90 DEGREES OF THE PIPE. SAID STRIPE SHALL BE A MINIMUM 2 INCHES IN WIDTH AND SHALL BE BLUE IN COLOR IF PAINT IS USED INSTEAD OF TAPE. BACKFILL SHALL NOT BE PLACED FOR 30 MINUTES FOLLOWING PAINT APPLICATION. FOR PIPE WITH AN INTERNAL DIAMETER OF 24" OR GREATER, TAPE OR PAINT SHALL BE APPLIED IN CONTINUOUS LINES A LONG EACH SIDE OF THE PIPE AS WELL AS A LONG THE TOP OF THE PIPE.
9. ALL NON-METALLIC WATER MAINS SHALL BE INSTALLED WITH A CONTINUOUS, INSULATED 14 GAUGE COPPER WIRE INSTALLED DIRECTLY ON TOP OF THE PIPE FOR LOCATION PURPOSES. SEE STANDARD DRAWINGS. IN ADDITION, ALL PVC WATER MAINS SHALL BE A SOLID BLUE COLOR.
10. MARK DRINKING WATER SERVICES BY ETCHING A "W" INTO CURBING.
11. PIPE MATERIALS: ALL PIPES, PIPE FITTINGS, PIPE JOINT PACKING AND JOINTING MATERIALS, VALVES, FIRE HYDRANTS, AND METERS INSTALLED UNDER THIS PROJECT SHALL CONFORM TO APPLICABLE AWWA STANDARDS.
    A. PVC WATER MAINS 4 INCHES TO 12 INCHES SHALL BE IN ACCORDANCE WITH AWWA C900, LATEST EDITION AND SHALL BE DR18. PVC WATER MAINS 14 INCHES TO 36 INCHES SHALL BE IN ACCORDANCE WITH AWWA C905, LATEST EDITION AND SHALL BE DR18. PVC PIPES LESS THAN 4 INCHES ARE NOT ALLOWED IN MARION COUNTY. IN OTHER JURISDICTIONS, THEY SHALL BE IN ACCORDANCE WITH ASTM D1785 (SCHEDULE 40, 80, 120) OR ASTM D2241 SDR 21. MINIMUM WORKING PRESSURE FOR ALL PVC SHALL BE 150 PSI. ALL PVC PIPE SHALL HAVE THE SAME O.D. AS DUCTILE IRON PIPE. PVC PIPE JOINTS SHALL BE IN ACCORDANCE WITH ASTM D3139 AND AWWA STANDARDS.
    B. DUCTILE IRON PIPE SHALL CONFORM TO ANSI A21.51/AWWA C151 AND SHALL BE A MINIMUM OF CLASS 50. DUCTILE IRON JOINTS SHALL BE IN ACCORDANCE WITH ANSI A21.11 AND AWWA C111.
    C. ALL SERVICES SHALL BE POLYETHYLENE TUBING, CLASS 160 AND SHALL BE IN ACCORDANCE WITH AWWA C901.
12. WATER MAIN CONNECTION SHALL BE MADE UNDER THE SUPERVISION OF THE ***MARION COUNTY***. ALL VALVES SHALL BE OPERATED BY ***MARION COUNTY*** PERSONNEL ONLY. WATER MAINS ARE TO BE DISINFECTED PER ANSIWWA C651-92 AND MARION COUNTY LAND DEVELOPMENT CODE OF STANDARDS AND SPECIFICATIONS FOR WASTEWATER AND WATER MAIN CONSTRUCTION SECTION 51.6 WHICH INCLUDES A FULL FLUSH.
13. ALL VALVES SHALL BE LOCATED IN NON PAVED AREAS, UNLESS SPECIFIED ON PLANS.
14. FIRE HYDRANT LEADS SHALL HAVE A MINIMUM INSIDE DIAMETER OF 6" AND SHALL INCLUDE AN AUXILIARY VALVE.
15. IF AGGRESSIVE SOIL CONDITIONS ARE FOUND DURING CONSTRUCTION, WATER MAINS SHALL BE PROTECTED THROUGH THE USE OF CORROSION RESISTANT MATERIALS, THROUGH ENCASEMENT OF THE WATER MAINS IN POLYETHYLENE, OR THROUGH PROVISION OF CATHODIC PROTECTION.
16. ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT SHAL BE "LEAD FREE" AS DEFINED IN THE LATEST VERSION OF THE SAFE WATER DRINKING ACT.
17. WHERE NEW OR ALTERED DEAD-END WATER MAINS INCLUDED IN THIS PROJECT CANNOT BE AVOIDED, THEY SHALL BE PROVIDED WITH A FIRE FLUSHING HYDRANT OR BLOW-OFF FOR FLUSHING PURPOSES.
18. ALL FIRE HYDRANTS THAT WILL BE INSTALLED UNDER THIS PROJECT SHALL BE LOCATED AT LEAST THREE FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORM WATER FORCE MAIN, PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., OR VACUUM - TYPE SANITARY SEWER; AT LEAST SIX FEET FROM ANY EXISTING OR PROPOSED GRAVITY - OR PRESSURE - TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
19. PROPOSED FIRE HYDRANTS CONNECTED TO THE POTABLE WATER MAIN, FOR THIS PROJECT, SHALL BE PAINTED PER NFPA AND AWWA STANDARDS. FIRE HYDRANTS CONNECTED TO THE DESIGNATED FIRE LINE SHALL BE PAINTED PER JURISDICTION.
20. ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT WILL BE COLOR CODED OR MARKED IN ACCORDANCE WITH SUBPARAGRAPH 62-555.320(21)(b)3,F.A.C, USING BLUE AS A PREDOMINANT COLOR. (UNDERGROUND PLASTIC PIPE WILL BE SOLID-WALL BLUE PIPE, WILL HAVE A CO-EXTRUDED BLUE EXTERNAL SKIN, OR WILL BE WHITE OR BLACK PIPE WITH BLUE STRIPES INCORPORATED INTO, OR APPLIED TO, THE PIPE WALL; AND UNDERGROUND METAL OR CONCRETE PIPE WILL HAVE BLUE STRIPED APPLIED TO THE PIPE WALL. PIPE STRIPED DURING MANUFACTURING OF THE PIPE WILL HAVE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE, THAT ARE LOCATED AT NO GREATER THAN 90-DEGREE INTERVALS AROUND THE PIPE, AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE. IF TAPE OR PAINT IS USED TO STRIPE PIPE DURING INSTALLATION OF THE PIPE, THE TAPE OR PAINT WILL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED ALONG THE TOP OF THE PIPE; FOR PIPE WITH AN INTERNAL DIAMETER OF 24 INCHES OR GREATER, TAPE OR PAINT WILL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE. ABOVEGROUND PIPE WILL BE PAINTED BLUE OR WILL BE COLOR CODED OR MARKED LIKE UNDERGROUND PIPE.) [FAC 62-555.320(21)(b)3]
21. THE OPEN END OF THE AIR RELIEF PIPE FROM ALL AUTOMATIC AIR RELIEF VALVES WILL BE EXTENDED TO AT LEAST ONE FOOT ABOVE GRADE AND WILL BE PROVIDED WITH A SCREENED, DOWNWARD-FACING ELBOW. [FAC 62-555.320(21)(b)3, AND RSWW 8.4.2]
22. A CONTINUOUS AND UNIFORM BEDDING WILL BE PROVIDED IN TRENCHES FOR UNDERGROUND PIPE; BACKFILL MATERIAL WILL BE TAMPED IN LAYERS AROUND UNDERGROUND PIPE TO ADEQUATELY SUPPORT AND PROTECT THE PIPE; AND UNSUITABLY SIZED STONES (AS DESCRIBED IN APPLICABLE AWWA STANDARDS OR MANUFACTURERS' RECOMMENDED INSTALLATION PROCEDURES) FOUND IN TRENCHES WILL BE REMOVED FOR A DEPTH OF AT LEAST SIX INCHES BELOW THE BOTTOM OF UNDERGROUND PIPE. [FAC 62-555.320(21)(b)3, AND RSWW 8.5.2]
23. ALL WATER MAIN TEES, BENDS, PLUGS, AND HYDRANTS WILL BE PROVIDED WITH THRUST BLOCKS OR RESTRAINED JOINTS TO PREVENT MOVEMENT. [FAC 62-555.320(21)(b)3, AND RSWW 8.5.4]
24. NEW OR ALTERED WATER MAIN INSTALLATION AND PRESSURE AND LEAKAGE TESTING, SHALL BE PROVIDED IN ACCORDANCE WITH APPLICABLE AWWA STANDARDS. PVC WATER MAIN INSTALLATION AND TESTING SHALL CONFORM TO AWWA C605. DUCTILE IRON WATER MAIN INSTALLATION AND TESTING SHALL CONFORM TO AWWA C600.
25. NEW OR ALTERED WATERMAINS, INCLUDING FIRE HYDRANT LEADS AND SERVICE LINES THAT WILL BE UNDER THE CONTROL OF A PUBLIC WATER SYSTEM AND THAT HAVE AN INSIDE DIAMETER OF THREE INCHES OR GREATER, SHALL BE DISINFECTED AND BACTERIOLOGICALLY TESTED IN ACCORDANCE WITH AWWA C651.
26. THE MINIMUM COVER TO BE PROVIDED OVER POTABLE WATER LINES SHALL BE 3'. RSWW 8.7.3
27. WATER SERVICES SHALL BE INSTALLED 10' FROM BACK OF CURB.

FORCE MAIN NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN COMPLIANCE WITH THE ***MARION COUNTY*** LDC FOR FORCE MAIN CONSTRUCTION.
2. ALL FORCE MAIN CONSTRUCTION AND MATERIALS TO BE OWNED AND MAINTAINED BY ***MARION COUNTY***.
3. PIPE LENGTHS SHOWN IN REPRESENT SCALED DISTANCES BETWEEN FITTINGS OF BRANCHES AND MAINS.
4. DEFLECTIONS AT PIPE JOINTS SHALL NOT EXCEED THOSE RECOMMENDED BY THE PIPE MANUFACTURER.
5. VALVES SHALL BE EQUIPPED WITH AN ADJUSTABLE CAST IRON VALVE BOX WITH COVER, WITH THREADED EXTENSIONS WHERE NEEDED, UNLESS OTHERWISE NOTED.
6. ALL PVC FORCE MAIN SHALL BE AS SPECIFIED IN THE CONTRACT DOCUMENTS, MARKED WITH THE SEAL OF APPROVAL OF THE NATIONAL SANITATION FOUNDATION (NSF).
7. ALL NON-METALLIC FORCE MAINS SHALL BE INSTALLED WITH A CONTINUOUS, INSULATED 14 GAUGE COPPER WIRE INSTALLED DIRECTLY ON TOP OF THE PIPE FOR LOCATION PURPOSES. SEE STANDARD DRAWINGS. IN ADDITION, ALL PVC FORCE MAINS SHALL BE EITHER A SOLID GREEN COLOR OR WHITE WITH GREEN LETTERING. ALL LETTERING SHALL APPEAR LEGIBLY ON PIPE AND SHALL RUN THE ENTIRE LENGTH OF THE PIPE. LETTERING SHALL READ AS IS ACCEPTABLE FOR THE INTENDED USE.
8. HYDROSTATIC & LEAKAGE TESTING OF THE FORCE MAIN SHALL BE DONE IN ACCORDANCE WITH THE AWWA STANDARDS. HYDROSTATIC TESTING TO BE DONE IN ACCORDANCE WITH AWWA C-600.
9. PIPE MATERIALS:
   PVC - SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA STANDARD C900, LATEST EDITION. THE PVC SHALL HAVE A MINIMUM WORKING PRESSURE OF 100 PSI AND SHALL HAVE A DIMENSION RATIO (DR) OF 25 UNLESS OTHERWISE NOTED. PIPE SHALL BE THE SAME O.D. AS DUCTILE IRON PIPE. PVC JOINT - SHALL BE IN ACCORDANCE WITH ASTM D3139. DUCTILE IRON JOINT - SHALL BE IN ACCORDANCE WITH ANSI A21.11 AND AWWA C111.
10. AIR RELEASE VALVES SHALL BE REQUIRED AT ALL HIGH POINTS IN THE PROPOSED FORCE MAIN, AS SHOWN ON PLANS. HIGH POINTS IN THE FORCE MAIN ARE DEFINED AS A CHANGE IN ELEVATION TWICE THE DIAMETER OF THE PIPE.
11. ALL FORCE MAINS TO BE CONSTRUCTED WITH A MINIMUM OF 4' FEET OF COVER.
12. TESTING OF THE SEWAGE COLLECTION SYSTEM IS AS FOLLOWS:
    HYDRO-STATIC TESTS CONSISTING OF A HYDROSTATIC PRESSURE TEST AND HYDROSTATIC LEAKAGE TEST SHALL BE CONDUCTED ON ALL NEWLY INSTALLED SEWER FORCE MAIN SYSTEM PRESSURE PIPES AND APPURTENANCES IN ACCORDANCE WITH AWWA C600 OR M23 AS APPLICABLE. THE PRESSURE SHALL BE 150 PSI FOR TWO (2) HOURS.

FIRE DEPARTMENT

1. THE STRUCTURES BEING CONSTRUCTED ON THE PROPERTY WILL BE CONSTRUCTED UNDER THE 8TH EDITION OF FLORIDA FIRE PREVENTION CODE.
2. PER ***MARION COUNTY*** CRITERIA:
   FIRE HYDRANTS MUST BE LOCATED SO AS NOT TO REQUIRE THE LAYING OF MORE THAN FIVE-HUNDRED (400) FEET OF HOSE CONNECTED TO SUCH HYDRANT, ALONG THE NEAREST PUBLIC RIGHT-OF-WAY, TO THE CENTER OF ANY BUILDABLE LOT OR PARCEL IN THE DEVELOPMENT.
3. ANY NEW HYDRANTS MUST BE ABLE TO SUPPLY 1000 G.P.M. OF WATER AT 20 P.S.I. AT ANY TIME OF THE DAY. ANY NEW HYDRANTS SHALL BE TESTED BY THE CONTRACTOR IN THE PRESENCE OF THE FIRE DEPARTMENT PRIOR TO APPROVAL OF THE FIRE HYDRANTS BY THE FIRE DEPARTMENT.(8TH EDITION OF FLORIDA FIRE PREVENTION CODE)
4. EACH NEW FIRE HYDRANT SHALL HAVE TOPS AND BONNETS POWDER COATED FROM FACTORY, SAFETY BLUE.
5. WHERE UNDERGROUND WATER MAINS AND HYDRANTS ARE TO BE PROVIDED, THEY SHALL BE INSTALLED, COMPLETED, AND IN SERVICE PRIOR TO CONSTRUCTION WORK. (8TH EDITION OF FLORIDA FIRE PREVENTION CODE)
6. THE ACCESS ROADS SHALL REMAIN CLEAR OF VEHICULAR OBSTRUCTIONS TO ALLOW ACCESS OF FIRE DEPARTMENT UNITS WHILE THE BUILDINGS ARE BEING CONSTRUCTED. (8TH EDITION OF FLORIDA FIRE PREVENTION CODE)
7. IF LAND CLEARING OPERATIONS REQUIRE BURNING, A BURN PERMIT MUST BE OBTAINED FROM THE DEPARTMENT OF FORESTRY PRIOR TO BURNING ANY MATERIAL.
8. ONCE ALL NEW HYDRANTS HAVE BEEN INSTALLED, TESTED, AND PAINTED PER NFPA 291 BY A THIRD PARTY CONTRACTOR. PLEASE PROVIDE THE MARION COUNTY FIRE PREVENTION OFFICE WITH A COPY OF THE HYDRANT FLOW DATA.
9. FIRE HYDRANT LOCATIONS SHALL BE INDICATED BY PLACEMENT OF A BLUE REFLECTOR IN THE MIDDLE OF THE ROADWAY LANE CLOSEST TO THE HYDRANT.

REUSE NOTES

1. ALL IRRIGATION, REUSE AND EFFLUENT REUSE PIPING TO BE OWNED AND MAINTAINED BY ***MARION COUNTY*** SHALL BE A SOLID PURPLE COLOR.
2. REUSE AND EFFLUENT REUSE MAINS SHALL BE PVC CONFORMING TO AWWA C-900, DR 18 FOR PIPE SIZES 4"-12". pipes 14" & LARGER SHALL BE AWWA C-905, DR 18. ALL COUPLINGS, CLEANING COMPOUNDS, SOLVENTS, LUBRICANTS, AND PIPE PREPARATION, FOR LAYING SHALL BE IN ACCORDANCE WITH THE PIPE MANUFACTURERS LATEST RECOMMENDATIONS.
3. DEPTH OF REUSE AND EFFLUENT REUSE LINES TO BE 36" BELOW FINISHED GRADE.
4. REUSE AND EFFLUENT REUSE MAINS TO BE LOCATED 5' FROM BACK OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
5. ALL REUSE AND EFFLUENT REUSE MAINS UNDER PAVEMENT SHALL BE DUCTILE IRON PIPE AND SHALL EXTEND 5' BEYOND THE EDGE OF PAVEMENT OR BACK OF CURB.
6. ALL IRRIGATION SLEEVING UNDER PAVEMENT SHALL EXTEND 5' BEYOND THE EDGE OF PAVEMENT OR BACK OF CURB.

EROSION CONTROL NOTES

1. DURING CONSTRUCTION, THE CONTRACTORS SHALL TAKE ALL REASONABLE MEASURES TO INSURE AGAINST POLLUTING, SILTING OR DISTURBING TO SUCH AN EXTENT AS TO CAUSE AN INCREASE IN TURBIDITY TO THE EXISTING SURFACE WATERS. SUCH MEASURES SHALL BE APPROVED BY THE PROJECT ENGINEER AND MAY INCLUDE, BUT NOT LIMITED TO, CONSTRUCTION OF TEMPORARY EROSION CONTROL STRUCTURES SUCH AS SEDIMENT BASINS, SEDIMENT CHECKS, OR SILT BARRIERS.
2. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH ALL EROSION CONTROL MEASURES AS SHOWN ON THE EROSION CONTROL PLAN.
3. SODDING OF DETENTION PONDS SHOULD BE ACCOMPLISHED WITHIN 14 DAYS OF POND GRADING TO MINIMIZE EROSION POTENTIAL.
4. AT A MINIMUM, THE RETENTION/DETENTION STORAGE AREA MUST BE EXCAVATED WITHIN ONE FOOT PRIOR TO BUILDING CONSTRUCTION OR PLACEMENT OF IMPERVIOUS SURFACE WITHIN THE AREA TO BE SERVED BY THOSE FACILITIES. TO PREVENT REDUCTION IN STORAGE VOLUME AND PERCOLATION RATES. ALL ACCUMULATED SEDIMENT MUST BE REMOVED FROM THE STORAGE AREA PRIOR TO FINAL GRADING AND STABILIZATION.
5. IF DURING CONSTRUCTION, THE PROPOSED EROSION SYSTEM DOES NOT PERFORM SATISFACTORILY, ALTERNATIVES AND ADDITIONAL METHODS OF PROTECTION SHALL BE IMPLEMENTED BY THE CONTRACTOR IN ORDER TO COMPLY WITH ***S.W.F.W.M.D.*** AND ***MARION COUNTY*** EROSION CONTROL COSTS INCLUDING ANY COSTS ASSOCIATED WITH COMPLIANCE ISSUES AND ENFORCEMENT ACTIONS.
6. A 2' STRIP OF SOD SHALL BE PLACED BEHIND BACK OF CURB.
7. ALL SODDED AND/OR SEEDED AREAS MUST BE WATERED AS NECESSARY DURING CONSTRUCTION AND 2 MONTHS AFTER COMPLETION OF CONSTRUCTION IN ORDER TO ENSURE STABILIZATION AND SURVIVAL.

LOCATION OF PUBLIC WATER SYSTEM MAINS IN ACCORDANCE WITH F.A.C. RULE 62-555.314

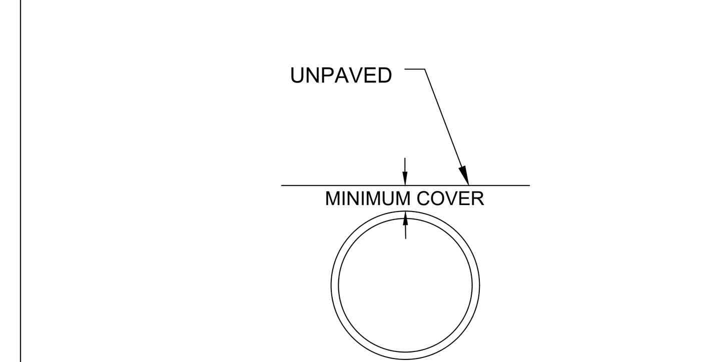
OTHER PIPE	HORIZONTAL SEPARATION	CROSSINGS (1)	JOINT SPACING @ CROSSINGS (FULL JOINT CENTERED)
STORM SEWER, STORMWATER FORCE MAIN, RECLAIMED WATER (2)	Water Main; 3 ft. minimum	Water Main; 12 inches is the minimum, except for storm sewer, then 6 inches is the minimum and 12 inches is preferred	ALTERNATE 3 FT. MINIMUM; Water Main
VACUUM SANITARY SEWER	Water Main; 10 ft. preferred 3 ft. minimum	Water Main; 12 inches is preferred 6 inches minimum	ALTERNATE 3 FT. MINIMUM; Water Main
GRAVITY OR PRESSURE SANITARY SEWER, SANITARY SEWER FORCE MAIN, RECLAIMED WATER (2)	Water Main; 10 ft. preferred 6 ft. minimum (3)	Water Main; 12 inches is the minimum, except for gravity sewer, then 6 inches is the minimum and 12 inches is preferred	ALTERNATE 6 FT. MINIMUM; Water Main
ON-SITE SEWAGE TREATMENT & DISPOSAL SYSTEM	10 ft. minimum	—	—

1. WATER MAIN SHOULD CROSS ABOVE OTHER PIPE. WHEN WATER MAIN MUST BE BELOW OTHER PIPE, THE MINIMUM SEPARATION IS 12 INCHES.
2. RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
3. 3 FT. FOR GRAVITY SANITARY SEWER WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST 6 INCHES ABOVE THE TOP OF THE GRAVITY SANITARY SEWER.
4. RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

AS-BUILT NOTES

1. THE CONTRACTOR SHALL SUBMIT A CERTIFIED SET OF RECORD DRAWINGS TO THE ENGINEER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING INFORMATION ON THE APPROVED PLANS CONCURRENTLY WITH CONSTRUCTION PROGRESS. RECORD DRAWINGS SUBMITTED TO THE ENGINEER AS PART OF THE PROJECT ACCEPTANCE SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS.
   A. DRAWINGS SHALL BE LEGIBLY MARKED TO RECORD ACTUAL CONSTRUCTION.
   B. DRAWINGS SHALL SHOW ACTUAL LOCATION OF ALL UNDERGROUND AND ABOVE GROUND STORM DRAINAGE, WATER, REUSE AND WASTEWATER PIPING AND RELATED APPURTENANCES. ALL PIPING LOCATIONS INCLUDING HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES AND APPURTENANCES SHALL BE CLEARLY SHOWN AND REFERENCED TO PERMANENT SURFACE IMPROVEMENTS. DRAWINGS SHALL ALSO SHOW ACTUAL INSTALLED PIPE MATERIAL, CLASS, ETC.
   C. DRAWINGS SHALL CLEARLY SHOW ALL FIELD CHANGES OF DIMENSION AND DETAIL INCLUDING CHANGES MADE BY FIELD ORDER OR BY CHANGE ORDER.
   D. DRAWINGS SHALL CLEARLY SHOW ALL DETAILS NOT ON ORIGINAL CONTRACT DRAWINGS, BUT CONSTRUCTED IN THE FIELD. ALL EQUIPMENT AND PIPING RELOCATION SHALL BE CLEARLY SHOWN.
   E. LOCATION OF ALL INLETS AND MANHOLES, HYDRANTS, VALVES AND VALVE BOXES SHALL BE SHOWN. ALL VALVES SHALL BE REFERENCED FROM AT LEAST TWO PREFERABLY THREE PERMANENT POINTS.
   F. DIMENSIONS BETWEEN ALL INLETS AND MANHOLES SHALL BE VERIFIED AND SHOWN. THE INVERTS AND GRADE ELEVATIONS OF ALL INLETS, CONTROL STRUCTURES AND MANHOLES SHALL BE SHOWN.
   G. CONTRACTOR SHALL PROVIDE AS-BUILT SURVEY FOR POND GRADING. SPOT ELEVATIONS SHALL BE TAKEN AT TOP OF BANK, POND BOTTOM, AND ALL GRADE BREAKS AT 50' INTERVALS.
   H. DRAWINGS SHALL CLEARLY INDICATE VERTICAL AND HORIZONTAL SEPARATION BETWEEN WATER MAIN AND STORM DRAINAGE/SANITARY SEWER/RECLAIM WATER MAINS AT POINTS OF CROSSING IN ACCORDANCE WITH FDEP CRITERIA.
   I. WHERE THE WATER MAIN CROSSES OTHER UTILITIES (STORM, GRAVITY SEWER, FORCE MAIN AND RECLAIMED WATER), THE CERTIFIED AS-BUILT DRAWINGS SHALL CLEARLY INDICATE THE CONSTRUCTED ELEVATIONS IN SUCH A WAY THAT THE VERTICAL SEPARATION BETWEEN THE WATER MAIN AND OTHER UTILITIES MAY BE VERIFIED BY THE ENGINEER. FAILURE TO PROVIDE THIS INFORMATION WILL RESULT IN THE CONTRACTOR EXCAVATING AND SURVEYING THE UTILITIES AT NO ADDITIONAL COST TO THE OWNER.
   J. WHERE THE WATER MAIN CROSSES OTHER UTILITIES (STORM, GRAVITY SEWER, FORCE MAIN AND RECLAIMED WATER), THE CERTIFIED AS-BUILT DRAWINGS SHALL CLEARLY INDICATED THE LOCATIONS OF PIPE JOINTS IN SUCH A MANNER AS TO DEMONSTRATE THE PIPE IS CENTERED AT ALL THE CROSSING. FAILURE TO PROVIDE THIS INFORMATION WILL RESULT IN THE CONTRACTOR EXCAVATING AND SURVEYING THE UTILITIES AT NO ADDITIONAL COST TO THE OWNER.
2. EACH SHEET OF THE PLANS SHALL BE SIGNED, SEALED AND DATED BY REGISTERED SURVEYOR WITH A NOTE READING "THESE AS-BUILT DRAWINGS ACCURATELY DEPICT THE ACTUAL IMPROVEMENTS AS CONSTRUCTED".

TABLE 2.0 - STORM PIPE COVER (UNPAVED)



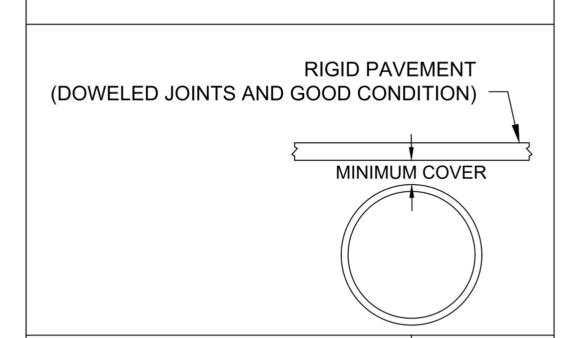
PIPE TYPE/SIZE & SHAPE	COMMERCIAL	NON-COMMERCIAL
CONCRETE *		
ROUND & ELLIPTICAL	12"	3"
CORRUGATED STEEL		
12" - 30" ROUND	18" [15"]	12" [12"]
36"- 48" ROUND	18" (12") [15"]	12" (12") [12"]
54" - 72" ROUND	18" (12") [15"]	15" (12") [12"]
78" - 96" ROUND	(18") [27"]	(12") [12"]
102" & LARGER ROUND	24" [33"]	18" [21"]
15" - 30" ARCH EQUIVALENT	18" [18"]	12" [12"]
36" - 48" ARCH EQUIVALENT	24" (12") [21"]	18" (12") [15"]
54" - 72" ARCH EQUIVALENT	30" (18") [24"]	24" (12") [18"]
78" - 96" ARCH EQUIVALENT	(24") [27"]	(18") [21"]
102" & LARGER ARCH EQUIVALENT	(30")	(24")
CORRUGATED ALUMINUM		
12" - 24" ROUND	21" [21"]	15" [15"]
30" - 48" ROUND	24" (18") [21"]	18" (12") [15"]
54" - 72" ROUND	30" (24") [27"]	24" (18") [21"]
78" - 102" ROUND	(30") [33"]	(24") [27"]
108" & LARGER ROUND	36"	30"
15" - 24" ARCH EQUIVALENT	27" [24"]	24" [21"]
30" - 48" ARCH EQUIVALENT	33" (21") [27"]	27" (15") [21"]
54" - 72" ARCH EQUIVALENT	36" (24") [30"]	30" (18") [24"]
78" - 90" ARCH EQUIVALENT	(30") [36"]	(24") [30"]
96" - 102" ARCH EQUIVALENT	(36")	(30")
CORRUGATED POLYETHYLENE		
15" - 48" ROUND	21"	15"
POLYVINYL CHLORIDE		
15" - 48" ROUND	21"	15"

VALUES SHOWN IN PARENTHESIS ( ) ARE FOR 3" X 1" CORRUGATIONS WHICH MUST BE SPECIFIED TO UTILIZE THE LESSER COVER.
VALUES SHOWN IN BRACKETS [ ] APPLY TO TYPE 1-R (SPIRAL RIB) PIPE WHICH MUST BE SPECIFIED TO UTILIZE THE LESSER COVER.
*FOR PIPE CLASS "S" WITH DIAMETERS OF 12" TO 30", THE MINIMUM HEIGHT OF FILL IS 3'.

CLEARANCES

1. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING 90 DAYS PRIOR TO THE ANTICIPATED COMPLETION OF CONSTRUCTION AND/OR CERTIFICATION OF COMPLETION APPROVAL DATE.
2. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH SIGNED AND SEALED AS-BUILTS OF ALL UTILITY IMPROVEMENTS, PRESSURE TESTS, BACTERIOLOGICAL TESTS, AND ANY OTHER INFORMATION NECESSARY FOR THE CLEARANCE APPROVALS WITH ***F.D.E.P.*** AND THE LOCAL UTILITY PROVIDER. THIS INFORMATION SHALL BE PROVIDED TO THE ENGINEER 60 DAYS PRIOR TO THE ANTICIPATED COMPLETION OF CONSTRUCTION AND/OR CERTIFICATION OF COMPLETION APPROVAL DATE.
3. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH SIGNED AND SEALED AS-BUILTS OF ALL STORM WATER SYSTEM IMPROVEMENTS AND ANY OTHER INFORMATION NECESSARY FOR THE CLEARANCE APPROVALS WITH ***S.W.F.W.M.D.*** AND THE LOCAL UTILITY PROVIDER. THIS INFORMATION SHALL BE PROVIDED TO THE ENGINEER 60 DAYS PRIOR TO THE ANTICIPATED COMPLETION OF CONSTRUCTION AND/OR CERTIFICATION OF COMPLETION APPROVAL DATE.

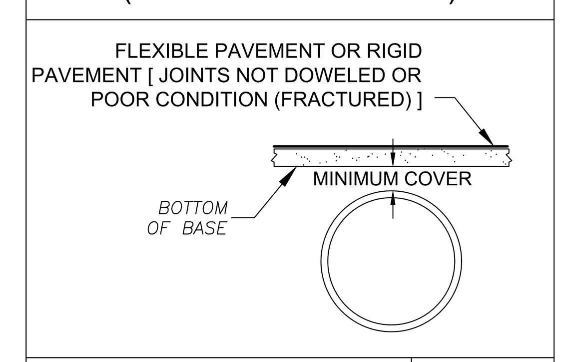
TABLE 3.0 -STORM PIPE COVER (RIGID PAVEMENT)



PIPE TYPE/SIZE & SHAPE	MINIMUM COVER
CONCRETE *	
ROUND & ELLIPTICAL	9"
CORRUGATED STEEL *	
15"-72" ROUND & ARCH EQUIVALENT	9"
78" & LARGER ROUND AND ARCH EQUIVALENT	15"
CORRUGATED ALUMINUM	
15" - 72" ROUND AND ARCH EQUIVALENT	9"
78" - 102" ROUND AND ARCH EQUIVALENT	15"
108" & LARGER ROUND	18"
CORRUGATED POLYETHYLENE	
15" - 48" ROUND	9"
POLYVINYL CHLORIDE	
15" - 48" ROUND	9"

*FOR PIPE CLASS "S" WITH DIAMETERS OF 12" TO 30", THE MINIMUM HEIGHT OF FILL IS 3'.

TABLE 4.0 -STORM PIPE COVER (FLEXIBLE PAVEMENT)



PIPE TYPE/SIZE & SHAPE	MINIMUM COVER
CONCRETE *	
ROUND & ELLIPTICAL	7"
CORRUGATED STEEL *	
12"-30" ROUND	12" [12"]
36"-48" ROUND	18" (12") [15"]
54"-72" ROUND	21" (15") [18"]
78"-96" ROUND	(18") [27"]
102 & LARGER ROUND	(24") [33"]
15"-30" ARCH EQUIVALENT	18" [18"]
36"-48" ARCH EQUIVALENT	24" (12") [18"]
54"-72" ARCH EQUIVALENT	27" (15") [24"]
78"-96" ARCH EQUIVALENT	(18") [30"]
102" & LARGER ARCH EQUIVALENT	(24")
CORRUGATED ALUMINUM	
12"-24" ROUND	15" [12"]
30"-48" ROUND	18" (12") [18"]
54"-72" ROUND	24" (18") [24"]
78"-102" ROUND	(24") [30"]
108" & LARGER	(30")
15"-24" ARCH EQUIVALENT	24" [21"]
30"-48" ARCH EQUIVALENT	27" (15") [24"]
54"-72" ARCH EQUIVALENT	30" (18") [27"]
78"-90" ARCH EQUIVALENT	(24") [30"]
96"-102" ARCH EQUIVALENT	(30")
CORRUGATED POLYETHYLENE	
15" - 30" ROUND	15"
POLYVINYL CHLORIDE	
15" - 30" ROUND	15"

VALUES SHOWN IN PARENTHESIS ( ) ARE FOR 3" X 1" CORRUGATIONS WHICH MUST BE SPECIFIED TO UTILIZE THE LESSER COVER.
VALUES SHOWN IN BRACKETS [ ] APPLY TO TYPE 1-R (SPIRAL RIB) PIPE WHICH MUST BE SPECIFIED TO UTILIZE THE LESSER COVER.
*FOR PIPE CLASS "S" WITH DIAMETERS OF 12" TO 30", THE MINIMUM HEIGHT OF FILL IS 3'.

Marion County Approval Stamp

Tillman & Associates
ENGINEERING, LLC.
CIVIL ENGINEERING - PLANNING - LANDSCAPE ARCHITECTURE - ENVIRONMENTAL
1720 SE 16th Ave. Bldg 100, Ocala, FL 34471
Office: (352) 387-4540 Fax: (352) 387-4545
CERTIFICATION OF AUTHORIZATION #26756

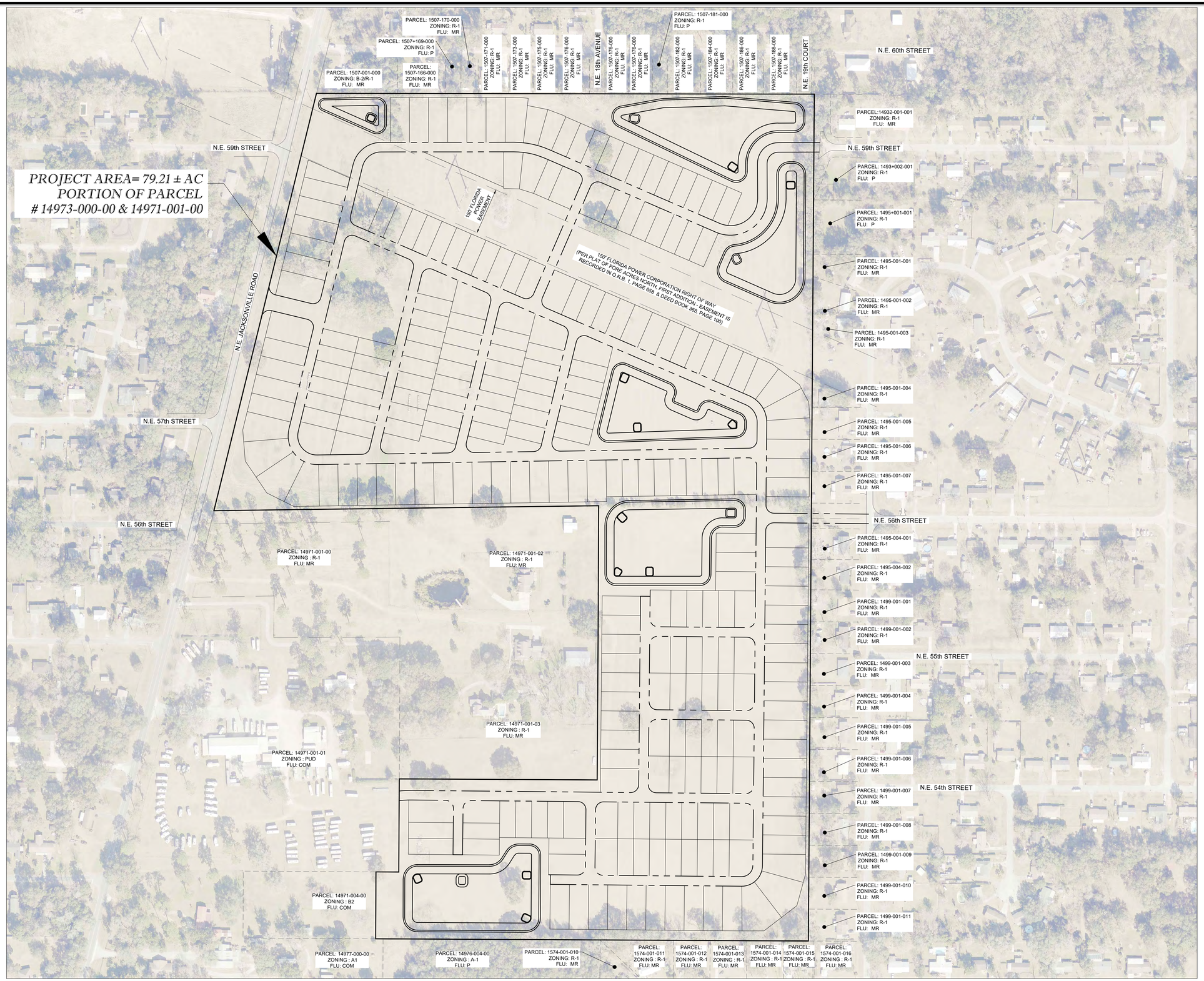
REVISIONS	DATE

IMPROVEMENT PLAN
WOODRIDGE PLACE
MARION COUNTY, FLORIDA

GENERAL NOTES

DATE 7/10/2024
DRAWN BY AS
CHKD. BY JMM
JOB NO. 22-8136

NOT VALID UNLESS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER



Marion County Approval Stamp

140' 70' 0 140' 280'

SCALE IN FEET
1" = 140'

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DATE	

AERIAL PHOTOGRAPH

IMPROVEMENT PLAN
WOODRIDGE PLACE
MARION COUNTY, FLORIDA

DATE 7/10/2024
DRAWN BY AS
CHKD. BY JMM
JOB NO. 22-8136

SHT. 03.01

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BASIN 3
17.98 AC
CN_e = 58.6
T_c = 10 min

BASIN 2
17.86 AC
CN_e = 40.0
T_c = 10 min

BASIN-6
15.39 AC
CN_e = 51.1
T_c = 10 min

BASIN-5
28.62 AC
CN_e = 57.2
T_c = 10 min

BASIN-4
17.19 AC
CN_e = 58.6
T_c = 10 min

BASIN-1
5.31 AC
CN_e = 57.2
T_c = 10 min

DRA - 1
TOP=76.0
BTM=71.0

DRA - 2
TOP = 62.0
BTM = 56.0

DRA - 3
TOP = 62.0
BTM = 56.0

DRA - 4
TOP = 66.0
BTM= 60.0

DRA - 5
TOP = 66.0
BTM = 60.0

DRA - 6
TOP = 66.0
BTM = 60.0

N.E. 59th STREET

N.E. 56th STREET

N.E. JACKSONVILLE ROAD

N.E. 57th STREET

N.E. 56th STREET

STREET A
STREET B
STREET C
STREET D
STREET E
STREET F
STREET G
STREET H
STREET J
STREET K
STREET L
STREET M
STREET N
STREET O
STREET Q

AMENITY CENTER

150' FLORIDA POWER EASEMENT

150' FLORIDA POWER CORPORATION RIGHT OF WAY (PER PLAT OF PINE ACRES NORTH, FIRST ADDITION, EASEMENT IS RECORDED IN O.R.E. 1, PAGE 658 & DEED BOOK 368, PAGE 100)

EXISTING CONTOURS (TYP.)

PROPOSED CONTOURS (TYP.)

PROPOSED SWALE (TYP.)

SOIL BORING (TYP.)

POST DEVELOPMENT BASIN LINE (TYP.)

PROJECT BOUNDARY (TYP.)

OFFSITE IMPROVEMENTS UNDER SEPARATE PLAN SET

Marion County Approval Stamp

120' 60' 0 120' 240'
SCALE IN FEET
1" = 120'

GRADING LEGEND

- PROPOSED CONTOURS
- EXISTING CONTOURS
- PROPOSED STORM PIPE
- PROPOSED SWALE BTMTOM
- D-22 PROPOSED STRUCTURE ID
- DROP CURB INLET
- GRATE INLET

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Office: (352) 387-4540 Fax: (352) 387-4545
CERTIFICATE OF AUTHORIZATION #26756

REVISIONS

DATE

IMPROVEMENT PLAN
WOODRIDGE PLACE
MARION COUNTY, FLORIDA

MASTER DRAINAGE PLAN

DATE 7/10/2024
DRAWN BY AS
CHKD. BY JMM
JOB NO. 22-8136

SHT. 04.01

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WATER LEGEND:

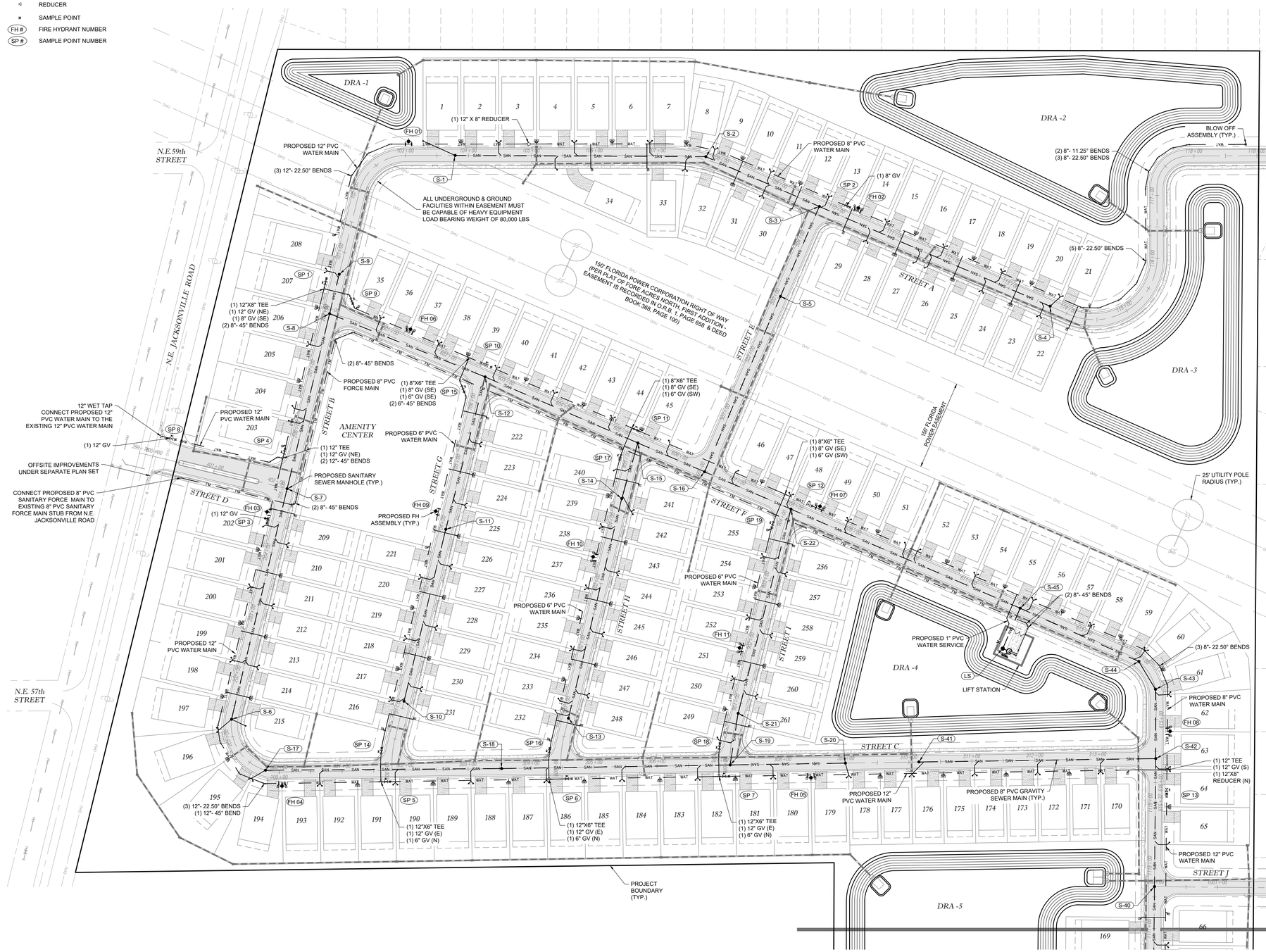
- WAT — WATER MAIN
- FIRE HYDRANT ASSEMBLY (FHA)
- TEE
- BENDS (11.25° / 22.5° / 45°)
- DOUBLE SERVICE
- SINGLE SERVICE
- GATE VALVE & BOX
- BLOW OFF ASSEMBLY
- REDUCER
- SAMPLE POINT
- FH # — FIRE HYDRANT NUMBER
- SP # — SAMPLE POINT NUMBER

SANITARY SEWER LEGEND:

- SAN — SANITARY SEWER
- MANHOLE
- S-15 — SANITARY MANHOLE NUMBER
- DOUBLE SERVICE
- SINGLE SERVICE
- FM — SANITARY FORCE MAIN
- BENDS (11.25° / 22.5° / 45°)

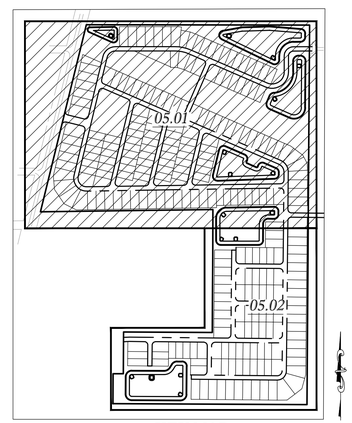
CONTRACTOR TO FIELD VERIFY ALL UTILITY LOCATIONS AND DEPTHS

ALL PROPOSED POTABLE WATER AND SANITARY SEWER INFRASTRUCTURE SHALL COMPLY WITH THE LATEST MARION COUNTY SPECIFICATIONS.



NOTES:

1. A METERED JUMPER CONNECTION WITH AN RP BACKFLOW PREVENTION ASSEMBLY IS REQUIRED BETWEEN THE EXISTING WATER MAIN AND NEWLY INSTALLED WATER MAIN UNTIL ALL CLEARANCES HAVE BEEN APPROVED AND ACCEPTED BY THE DISTRICT. THE VALVE (OR VALVES) BETWEEN EXISTING AND PROPOSED SHALL REMAIN OFF UNTIL AUTHORIZED PERSONNEL OF MARION COUNTY DEEM APPROPRIATE TO PLACE INTO SERVICE. WATER UTILIZED DURING CONSTRUCTION SHALL BE BILLED TO THE OWNER/APPLICANT LISTED ON THE IMPROVEMENT PLANS. PLEASE ACKNOWLEDGE.
2. ALL FIRE HYDRANTS TO BE INSTALLED, TESTED, AND PAINTED ACCORDING TO FLOW RATES AND NFPA 291 BY A THIRD PARTY. A THIRD PARTY CONTRACTOR WILL PROVIDE THE MARION COUNTY FIRE PREVENTION OFFICE WITH A COPY OF THE HYDRANT FLOW DATA.
3. LOCATION OF SERVICES AND METERS ARE FOR GRAPHICAL PURPOSES ONLY, ACTUAL LOCATIONS ARE PER MARION COUNTY DETAIL TS006.
4. MCU PERSONNEL ARE TO INSPECT ANY WORK PERFORMED ON OR AROUND EXISTING MCU INFRASTRUCTURE. A PRE CONSTRUCTION MEETING IS REQUIRED TO BE HELD A MINIMUM OF 48 HRS PRIOR TO START OF ANY CONSTRUCTION. IF THE PRE CONSTRUCTION MEETING IS NOT COMPLETED, ANY WORK MAY BE HALTED. TO SCHEDULE, CONTACT MARK RUDOWSKE AT 352-843-0476 OR MARK.RUDOWSKE@MARIONFL.ORG.



KEY MAP
1" : 500' SCALE

Marion County Approval Stamp

80' 40' 0 80' 160'
SCALE IN FEET
1" = 80'

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1720 SE 16th Ave. Bldg 100, Ocala, FL 34471
Office: (352) 387-4540 Fax: (352) 387-4545
CERTIFICATE OF AUTHORIZATION #26756

REVISIONS

DATE

MASTER UTILITY PLAN

IMPROVEMENT PLAN
WOODRIDGE PLACE
MARION COUNTY, FLORIDA

DATE 7/10/2024
DRAWN BY AS
CHKD. BY JMM
JOB NO. 22-8136

SHT. 05.01

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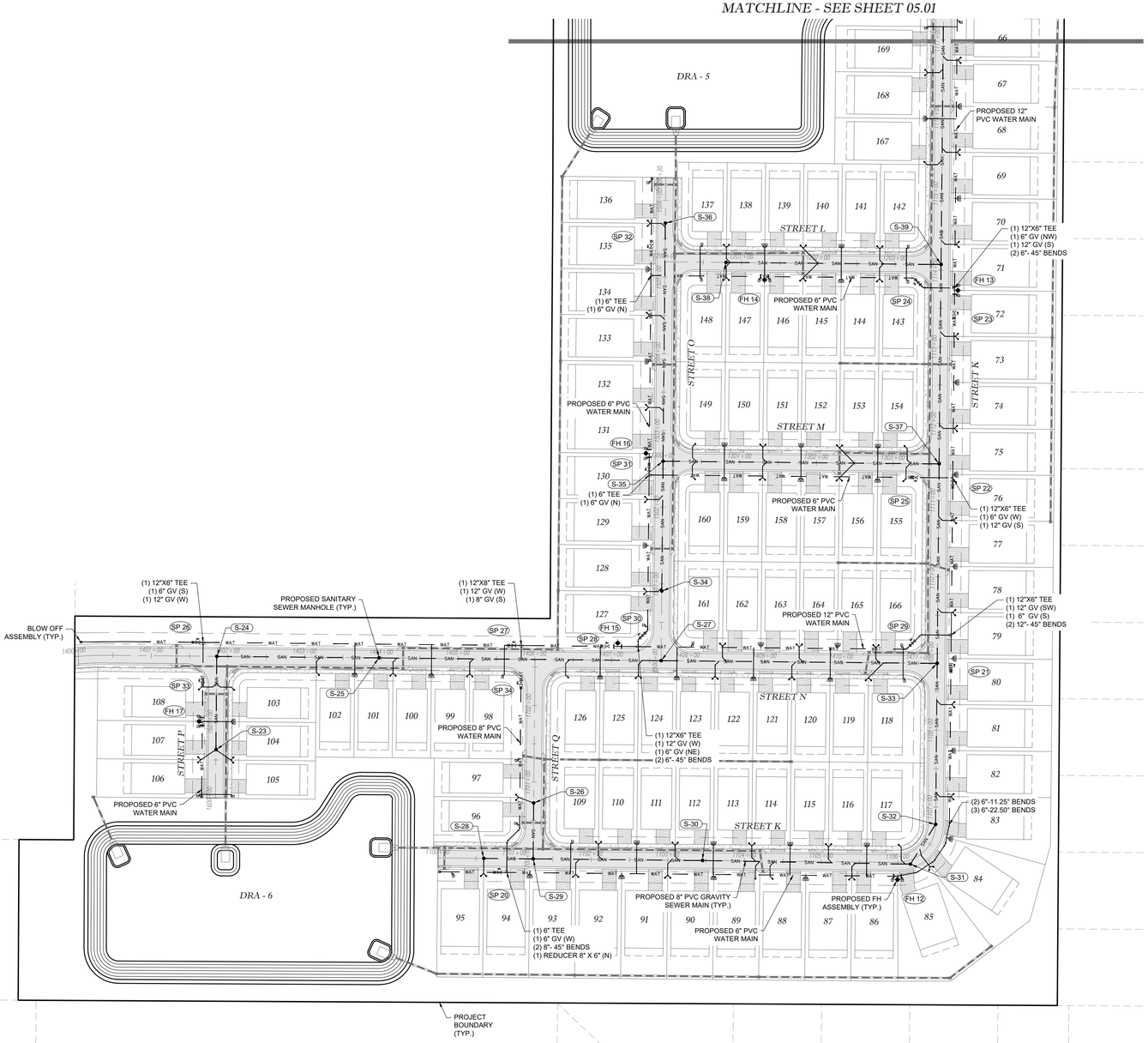
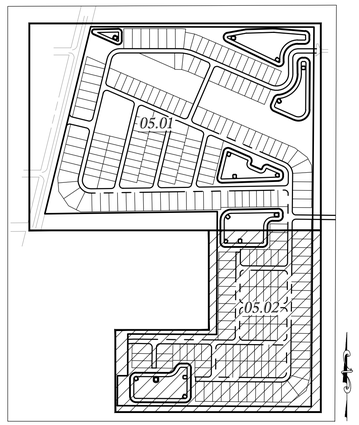
WATER LEGEND:

- WAT — WATER MAIN
- FIRE HYDRANT ASSEMBLY (FHA)
- TEE
- BENDS (90°, 45°, 22.5°, 11.25°)
- DOUBLE SERVICE
- SINGLE SERVICE
- GATE VALVE & BOX
- BLOW OFF ASSEMBLY
- REDUCER
- SAMPLE POINT
- FH # — FIRE HYDRANT NUMBER
- SP # — SAMPLE POINT NUMBER

SANITARY SEWER LEGEND:

- SAN — SANITARY SEWER
- MANHOLE
- S-15 — SANITARY MANHOLE NUMBER
- DOUBLE SERVICE
- SINGLE SERVICE
- FM — SANITARY FORCE MAIN
- BENDS (90°, 45°, 22.5°)





KEY MAP
1" : 500' SCALE

Marion County Approval Stamp

80' 40' 0 80' 160'
SCALE IN FEET
1"=80'

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IMPROVEMENT PLAN
WOODRIDGE PLACE
MARION COUNTY, FLORIDA

MASTER UTILITY PLAN

DATE 7/10/2024
DRAWN BY AS
CHKD. BY JMM
JOB NO. 22-8136

SHT. 05.02

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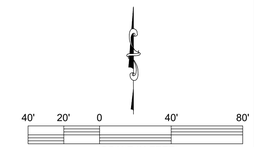


LEGEND

D.U.E. = DRAINAGE, UTILITY AND ACCESS EASEMENT
D.E. = DRAINAGE EASEMENT
U.E. = UTILITY EASEMENT
CL= CENTERLINE OF RIGHT OF WAY

Marion County Approval Stamp

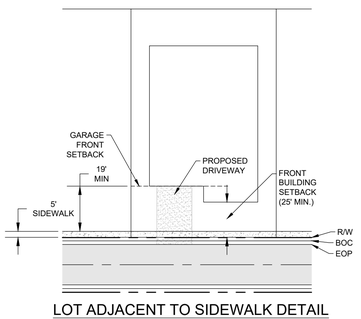
C/L CURVE DATA					
SEGMENT	DELTA	RADIUS	LENGTH	CHORD	CHORD BEARING
C1	9°44'31"	166.00'	28.22'	28.19'	S18°30'46"W
C2	9°44'31"	166.00'	28.22'	28.19'	S71°29'14"E
C3	76°18'38"	75.00'	99.89'	92.67'	S51°47'49"W
C4	23°25'53"	260.00'	106.33'	105.59'	N78°19'55"W

CURVE DATA					
SEGMENT	DELTA	RADIUS	LENGTH	CHORD	CHORD BEARING
C5	9°31'09"	275.00'	45.69'	45.64'	N78°59'33"W
C6	6°17'45"	275.00'	30.22'	30.20'	N86°54'00"W
C7	76°18'38"	90.00'	119.87'	111.20'	S51°47'49"W
C8	99°44'31"	25.00'	43.52'	38.23'	N63°30'46"E
C9	80°15'29"	25.00'	35.02'	32.23'	S26°29'14"E
C10	99°44'31"	25.00'	43.52'	38.23'	N63°30'46"E
C11	6°55'15"	245.00'	29.59'	29.58'	S86°35'15"E
C12	76°18'38"	60.00'	79.91'	74.14'	N51°47'49"E
C13	80°15'29"	25.00'	35.02'	32.23'	N26°29'14"W

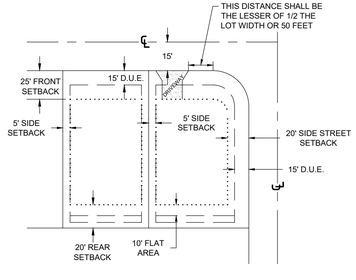
TYPE		MINIMUM WIDTH	MINIMUM AREA	MINIMUM SETBACKS FRONT	REAR	SIDE	HEIGHT
SFR	STANDARD - PRINCIPLE STRUCTURE	50' 60'	5,750 SF	25'	20'	5'	60'
	ACCESSORY STRUCTURE	N/A		25'	25'	5'	60'

ACCESSORY STRUCTURE = E.G. POOL, POOL SCREEN ENCLOSURE, ADD-ON SCREEN ENCLOSURE, OR STORAGE SHED, ETC.
N/A = NOT APPLICABLE X = MISSING OR NOT PROVIDED

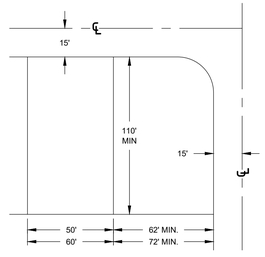
REQUIRED OPEN SPACE CALCULATIONS:
(20% OF PROJECT AREA AS MINIMUM OPEN SPACE)
-PROJECT AREA = 79.21 AC.
-MINIMUM REQUIRED OPEN SPACE = 0.2 X 79.21 = 15.84 AC.



LOT ADJACENT TO SIDEWALK DETAIL
N.T.S



TYPICAL LOT DETAILS
N.T.S



TYPICAL LOT DIMENSIONS
N.T.S

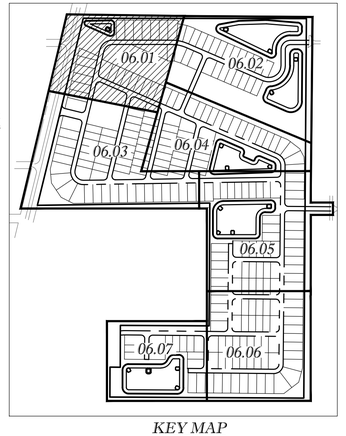
PROVIDED OPEN SPACE CALCULATIONS					
TRACT	TOTAL TRACT AREA (ACRES)	TOP OF BANK (ACRES)	TRACT OPEN SPACE (TOTAL TRACT MINUS DRA) (ACRES)	ALLOWED RETENTION AREA OPEN SPACE (20% OF DRA) (ACRES)	TOTAL OPEN SPACE (ACRES)
B	5.26	2.31	2.95	0.46	3.41
C	0.14	N/A	0.14	N/A	0.14
D	2.56	N/A	2.56	N/A	2.56
E	6.27	1.43	4.84	0.29	5.13
F	0.14	N/A	0.14	N/A	0.14
G	1.53	N/A	1.53	N/A	1.53
H	0.17	N/A	0.17	N/A	0.17
I	0.25	N/A	0.25	N/A	0.25
J	0.20	N/A	0.20	N/A	0.20
K	2.60	1.49	1.11	0.30	1.41
L	4.67	2.07	2.6	0.41	3.01
M	4.55	2.07	2.48	0.41	2.89
				TOTAL	20.84

NOTES:

1. ALL RIGHT-OF-WAY RADII AT INTERSECTIONS TO BE 25'.
2. PRIVATE ROAD STATUS WITH 30' RIGHT-OF-WAY WIDTH TOGETHER WITH 15.00' UTILITY EASEMENT.
3. TRACTS A,B,C,D,E,F,G,H,I,J,K,L & M ARE RESERVED FOR LANDSCAPING, RECREATION, DRAINAGE & UTILITIES, MAINTENANCE, INGRESS, EGRESS, INGRESS, SIGNAGE AND SUCH OTHER PURPOSES THAT ARE LEGALLY PERMITTED.
4. STREET RIGHT-OF-WAYS, DELINEATED AS TRACT (A) ARE COMMON AREAS.
5. LIFT STATION TRACT (N) IS TO BE CONVEYED TO MARION COUNTY.
6. ALL LOTS IN THIS SUBDIVISION WILL BE SERVED BY CENTRAL WATER AND SEWER.
7. ALL LOTS/TRACTS IN THIS SUBDIVISION SHALL USE THE INTERNAL SUBDIVISION ROADWAYS FOR DRIVEWAY/VEHICLE ACCESS.
8. ALL CONSTRUCTION COVERED BY THESE PLANS SHALL COMPLY WITH THE MATERIAL REQUIREMENTS AND QUALITY CONTROL STANDARDS CONTAINED IN THE MARION COUNTY LAND DEVELOPMENT CODE.
9. HOME OWNERS ASSOCIATION IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF BOTH NEW AND REPLACEMENT QUADRANT STREET SIGNS.
10. WATER/ SEWER UTILITIES PROVIDED BY MARION COUNTY UTILITIES DEPARTMENT.
11. H.O.A. IS RESPONSIBLE FOR THE STORM WATER MAINTENANCE.
12. ACCESSORY STRUCTURES (SCREEN ENCLOSURES, ETC.) SHALL CONFORM TO THE BUILDING SETBACKS AS DETAILED.
13. ADDITIONAL PERMITS WILL BE REQUIRED FOR MONUMENT SIGNAGE.

Summary

FUTURE LAND USE.....MEDIUM DENSITY RESIDENTIAL SINGLE-FAMILY
TOTAL SINGLE FAMILY LOTS....261 LOTS
PROJECT AREA.....79.21 ACRES
TOTAL RESIDENTIAL AREA .....41.9 ACRES
RESIDENTIAL R/W.....8.91 ACRES (TRACT A)
TOTAL TRACTS .....13 TRACTS
GROSS DENSITY.....3.29 UNITS / ACRE
ZONING.....PUD
ROAD LENGTH.....2.50 MILES
WATER SUPPLY.....CENTRAL
SEWAGE DISPOSAL SYSTEM....CENTRAL



KEY MAP
1" : 500' SCALE

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Tillman & Associates ENGINEERING, LLC.
CIVIL ENGINEERING - PLANNING - LANDSCAPE ARCHITECTURE - ENVIRONMENTAL
1720 SE 16th Ave. Bldg 100, Ocala, FL 34471
Office: (352) 387-4540 Fax: (352) 387-4545
CERTIFICATE OF AUTHORIZATION #26756

REVISIONS

DATE

GEOMETRY PLAN

IMPROVEMENT PLANS
WOODRIDGE PLACE
MARION COUNTY, FLORIDA

DATE 7/10/2024
DRAWN BY AS
CHKD. BY JMM
JOB NO. 22-8136

SHT. 06.01

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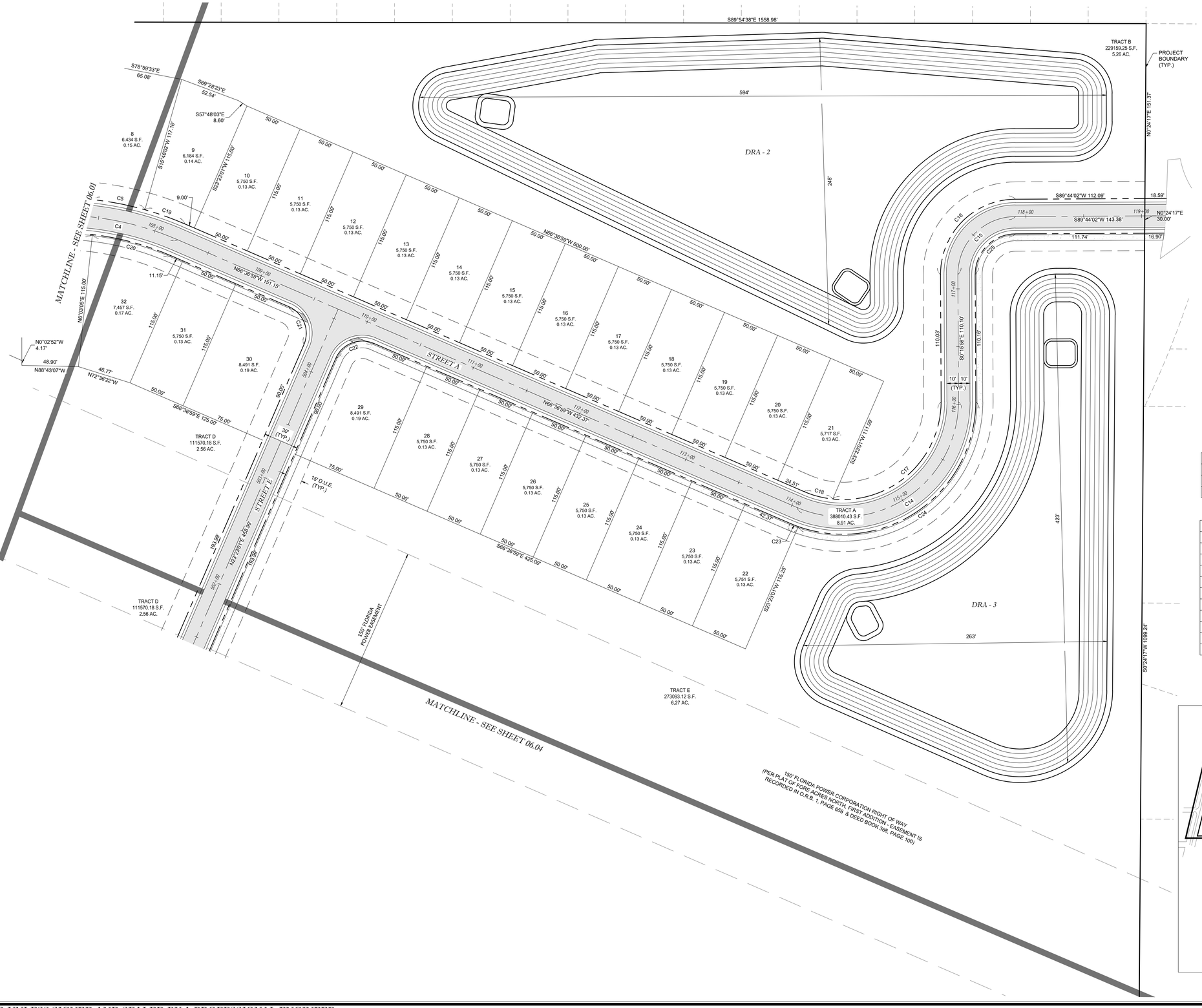


Marion County Approval Stamp

40' 20' 0 40' 80'

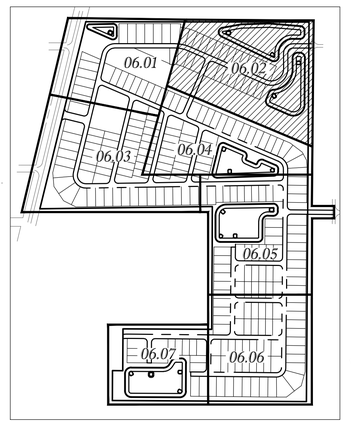
SCALE IN FEET
1"= 40'

LEGEND

D.U.E. = DRAINAGE, UTILITY AND ACCESS EASEMENT
D.E. = DRAINAGE EASEMENT
U.E. = UTILITY EASEMENT
CL= CENTERLINE

C/L CURVE DATA					
SEGMENT	DELTA	RADIUS	LENGTH	CHORD	CHORD BEARING
C14	113°08'49"	100.00'	197.48'	166.92'	S56°48'37"W
C15	90°00'00"	50.00'	78.54'	70.71'	S44°44'02"W

CURVE DATA					
SEGMENT	DELTA	RADIUS	LENGTH	CHORD	CHORD BEARING
C16	90°00'00"	65.00'	102.10'	91.92'	S44°44'02"W
C17	95°39'14"	85.00'	141.91'	125.99'	S48°06'23"W
C18	17°27'02"	85.00'	25.89'	25.79'	N75°20'30"W
C19	7°37'00"	275.00'	36.56'	36.53'	N70°25'29"W
C20	16°30'38"	245.00'	70.60'	70.36'	S74°52'18"E
C21	90°00'00"	25.00'	39.27'	35.36'	S21°36'59"E
C22	89°59'52"	25.00'	39.27'	35.35'	N68°23'05"E
C23	3°48'24"	115.00'	7.64'	7.64'	S68°31'11"E
C24	109°22'27"	115.00'	219.53'	187.68'	N54°53'24"E
C25	90°00'00"	35.00'	54.98'	49.50'	N44°44'02"E



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Office: (352) 387-4540 Fax: (352) 387-4545
CERTIFICATE OF AUTHORIZATION #26756

REVISIONS

DATE

IMPROVEMENT PLANS
WOODRIDGE PLACE
MARION COUNTY, FLORIDA

GEOMETRY PLAN

DATE 7/10/2024
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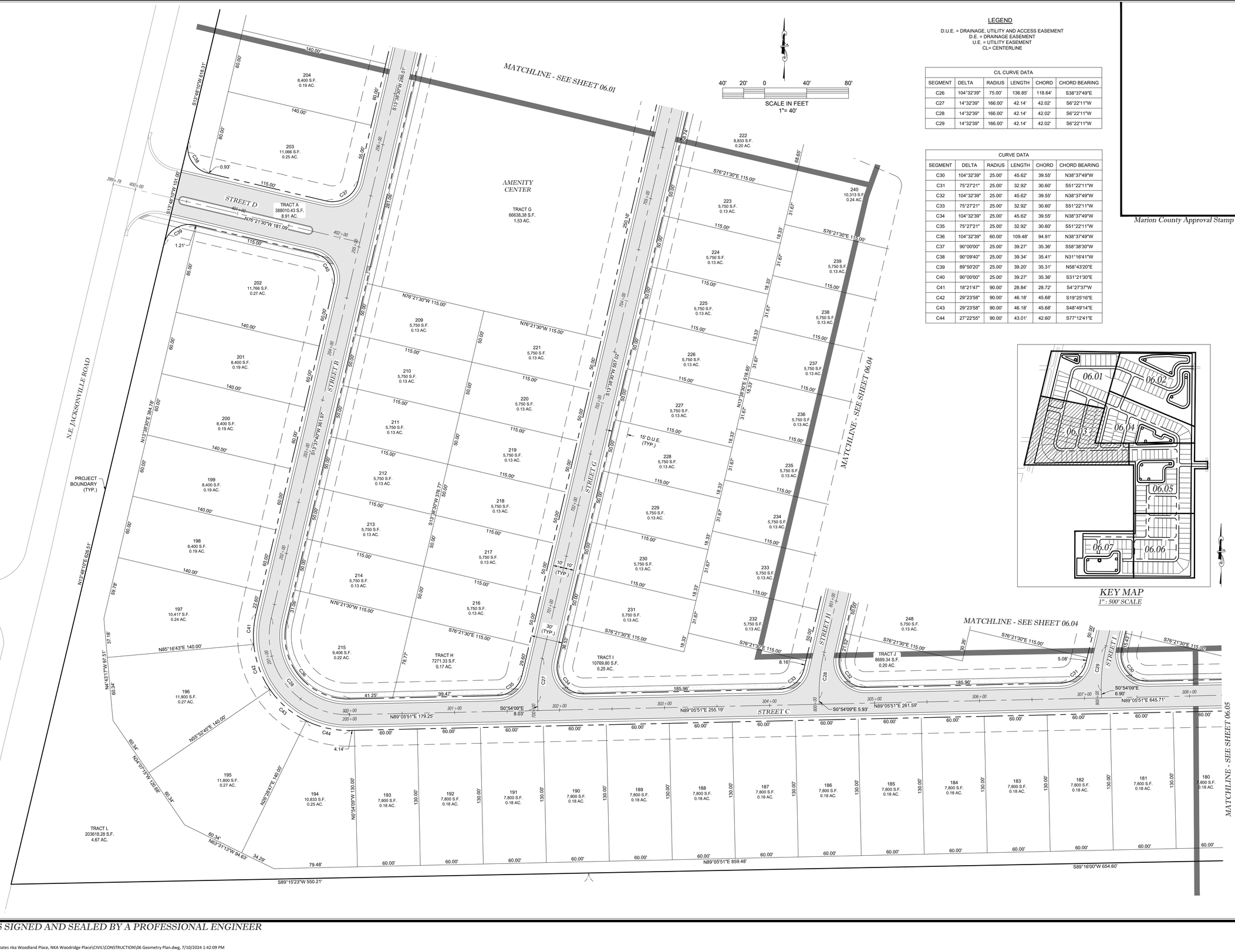
CHKD. BY JMM
JOB NO. 22-8136

SHT. 06.02



LEGEND

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D.E. = DRAINAGE EASEMENT
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CL= CENTERLINE

C/L CURVE DATA					
SEGMENT	DELTA	RADIUS	LENGTH	CHORD	CHORD BEARING
C26	104°32'39"	75.00'	136.85'	118.64'	S38°37'49"E
C27	14°32'39"	166.00'	42.14'	42.02'	S6°22'11"W
C28	14°32'39"	166.00'	42.14'	42.02'	S6°22'11"W
C29	14°32'39"	166.00'	42.14'	42.02'	S6°22'11"W

CURVE DATA					
SEGMENT	DELTA	RADIUS	LENGTH	CHORD	CHORD BEARING
C30	104°32'39"	25.00'	45.62'	39.55'	N38°37'49"W
C31	75°27'21"	25.00'	32.92'	30.60'	S51°22'11"W
C32	104°32'39"	25.00'	45.62'	39.55'	N38°37'49"W
C33	75°27'21"	25.00'	32.92'	30.60'	S51°22'11"W
C34	104°32'39"	25.00'	45.62'	39.55'	N38°37'49"W
C35	75°27'21"	25.00'	32.92'	30.60'	S51°22'11"W
C36	104°32'39"	60.00'	109.48'	94.91'	N38°37'49"W
C37	90°00'00"	25.00'	39.27'	35.36'	S58°38'30"W
C38	90°09'40"	25.00'	39.34'	35.41'	N31°16'41"W
C39	89°50'20"	25.00'	39.20'	35.31'	N58°43'20"E
C40	90°00'00"	25.00'	39.27'	35.36'	S31°21'30"E
C41	18°21'47"	90.00'	28.84'	28.72'	S4°27'37"W
C42	29°23'58"	90.00'	46.18'	45.68'	S19°25'16"E
C43	29°23'58"	90.00'	46.18'	45.68'	S48°49'14"E
C44	27°22'55"	90.00'	43.01'	42.60'	S77°12'41"E

KEY MAP
1" : 500' SCALE

Marion County Approval Stamp

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1720 SE 16th Ave. Bldg 100, Ocala, FL 34471
Office: (352) 387-4540 Fax: (352) 387-4545
CERTIFICATE OF AUTHORIZATION #26756

REVISIONS

DATE

IMPROVEMENT PLANS
WOODRIDGE PLACE
MARION COUNTY, FLORIDA

GEOMETRY PLAN

DATE 7/10/2024
DRAWN BY AS
CHKD. BY JMM
JOB NO. 22-8136

SHT. 06.03

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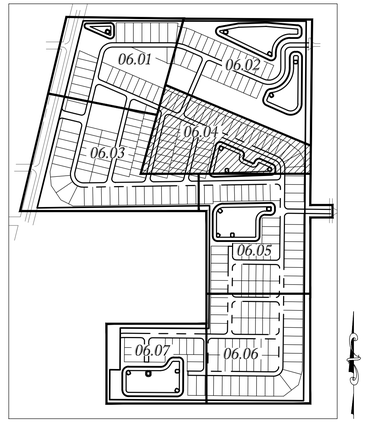
C/L CURVE DATA					
SEGMENT	DELTA	RADIUS	LENGTH	CHORD	CHORD BEARING
C45	9°44'31"	166.00'	28.22'	28.19'	S18°30'46"W
C46	9°44'31"	166.00'	28.22'	28.19'	S18°30'46"W
C47	67°10'19"	75.00'	87.93'	82.98'	S33°01'49"E

CURVE DATA					
SEGMENT	DELTA	RADIUS	LENGTH	CHORD	CHORD BEARING
C48	4°07'10"	90.00'	6.47'	6.47'	N1°30'15"W
C49	24°38'30"	90.00'	38.71'	38.41'	N15°53'05"W
C50	24°38'30"	90.00'	38.71'	38.41'	S40°31'35"E
C51	13°46'09"	90.00'	21.63'	21.58'	N59°43'54"W
C52	90°00'00"	25.00'	39.27'	35.36'	N21°36'59"W
C53	90°00'00"	25.00'	39.27'	35.36'	S68°23'01"W
C54	80°15'29"	25.00'	35.02'	32.23'	S26°29'14"E
C55	99°44'31"	25.00'	43.52'	38.23'	N63°30'46"E
C56	80°15'29"	25.00'	35.02'	32.23'	S26°29'14"E
C57	99°44'31"	25.00'	43.52'	38.23'	N63°30'46"E
C58	67°09'25"	60.00'	70.33'	66.37'	S33°01'23"E



KEY MAP
1" : 500' SCALE

Marion County Approval Stamp

40' 20' 0 40' 80'
SCALE IN FEET
1"= 40'

LEGEND

D.U.E. = DRAINAGE, UTILITY AND ACCESS EASEMENT
D.E. = DRAINAGE EASEMENT
U.E. = UTILITY EASEMENT
CL= CENTERLINE

MATCHLINE - SEE SHEET 06.03

MATCHLINE - SEE SHEET 06.05

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CERTIFICATE OF AUTHORIZATION #26756

REVISIONS

DATE

IMPROVEMENT PLANS
WOODRIDGE PLACE
MARION COUNTY, FLORIDA

GEOMETRY PLAN

DATE 7/10/2024
DRAWN BY AS
CHKD. BY JMM
JOB NO. 22-8136

SHT. 06.04

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MATCHLINE - SEE SHEET 06.04

MATCHLINE - SEE SHEET 06.03

MATCHLINE - SEE SHEET 06.06

261
5,750 S.F.
0.13 AC.

S76°21'30"E 115.00'

50.00'

TRACT K
113472.97 S.F.
2.60 AC.

55.77'

51.73'

592.34'

C59

STREET C

N89°05'51"E 645.71'

308+00 309+00 310+00 311+00 312+00 313+00

S89°26'40"E 17.31'

STREET I

S0°33'20"W 95.37'

605+00

C61

616+00

1119+00

616+32

S0°33'20"W 293.24'

89.89'

N0°54'09"W 115.00'

46.74'

69.46'

N89°05'51"E 469.46'

180
7,800 S.F.
0.18 AC.

179
7,800 S.F.
0.18 AC.

178
5,750 S.F.
0.13 AC.

177
5,750 S.F.
0.13 AC.

176
5,750 S.F.
0.13 AC.

175
5,750 S.F.
0.13 AC.

174
5,750 S.F.
0.13 AC.

173
5,750 S.F.
0.13 AC.

172
5,750 S.F.
0.13 AC.

171
5,750 S.F.
0.13 AC.

170
8,014 S.F.
0.18 AC.

130.00'

115.00'

15.00'

60.00'

50.00'

N89°05'51"E 120.00'

TRACT L
203618.28 S.F.
4.67 AC.

425'

DRA - 5

258'

N0°13'06"E 331.03'

N0°21'59"E 197.21'

S0°33'20"W 300.00'

N89°26'40"W 125.00'

169
7,500 S.F.
0.17 AC.

125.00'

168
7,500 S.F.
0.17 AC.

S0°33'20"W 180.00'

167
7,500 S.F.
0.17 AC.

1116+00

S0°33'20"W 359.08'

STREET K

1117+00

N89°26'40"W 205.00'

65.00'

50.00'

40.00'

10.00'

30.00'

1508+30

1508+00

N89°26'40"W 120.00'

136
7,200 S.F.
0.17 AC.

135
7,200 S.F.
0.17 AC.

134
7,200 S.F.
0.17 AC.

133
7,200 S.F.
0.17 AC.

132
7,200 S.F.
0.17 AC.

131
7,200 S.F.
0.17 AC.

120.00'

15' D.U.E.
(TYP.)

137
7,341 S.F.
0.17 AC.

138
5,750 S.F.
0.13 AC.

139
5,750 S.F.
0.13 AC.

140
5,750 S.F.
0.13 AC.

141
5,750 S.F.
0.13 AC.

142
7,341 S.F.
0.17 AC.

70.00'

90.00'

115.00'

N0°33'20"E 110.00'

STREET O

C63

C62

1200+00 1201+00 1202+00 1203+00

S89°26'40"E 360.00'

STREET L

1114+00

1505+00

C64

C65

148
7,341 S.F.
0.17 AC.

147
5,750 S.F.
0.13 AC.

146
5,750 S.F.
0.13 AC.

145
5,750 S.F.
0.13 AC.

144
5,750 S.F.
0.13 AC.

143
7,341 S.F.
0.17 AC.

N0°33'20"E 280.00'

10' 10'
(TYP.)

1504+00

30'
(TYP.)

N89°26'40"W 330.00'

149
7,341 S.F.
0.17 AC.

150
5,750 S.F.
0.13 AC.

151
5,750 S.F.
0.13 AC.

152
5,750 S.F.
0.13 AC.

153
5,750 S.F.
0.13 AC.

154
7,341 S.F.
0.17 AC.

1113+00

1712+00

S0°33'20"W 280.00'

1503+00

63
8,100 S.F.
0.19 AC.

64
8,100 S.F.
0.19 AC.

65
8,100 S.F.
0.19 AC.

S89°26'40"E 135.00'

TRACT E
273093.12 S.F.
6.27 AC.

S0°24'17"W 1099.24'

S0°24'09"W

82.95'

26.86'

C67

117.35'

S89°26'40"E 296.94'

TRACT A
388010.43 S.F.
8.91 AC.

1001+00

N89°26'40"W 339.38'

1000+00

N0°24'00"E
30.00'

1002+00

STREET J

1003+00

1003+37

110.00'

7.43'

N89°26'40"W 296.89'

C68

66
10,355 S.F.
0.24 AC.

52.89'

77.89'

TRACT M
198337.61 S.F.
4.55 AC.

67
8,100 S.F.
0.19 AC.

PROJECT
BOUNDARY
(TYP.)

68
8,100 S.F.
0.19 AC.

69
8,100 S.F.
0.19 AC.

70
8,100 S.F.
0.19 AC.

71
8,100 S.F.
0.19 AC.

72
8,100 S.F.
0.19 AC.

73
8,100 S.F.
0.19 AC.

74
8,100 S.F.
0.19 AC.

N0°33'20"E 497.69'

S0°24'09"W 1368.68'

Marion County Approval Stamp

40' 20' 0 40' 80'

SCALE IN FEET
1"= 40'

LEGEND

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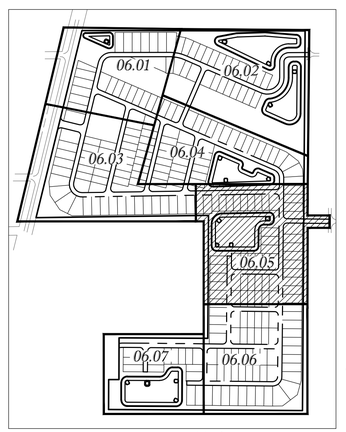
CL= CENTERLINE

C/L CURVE DATA					
SEGMENT	DELTA	RADIUS	LENGTH	CHORD	CHORD BEARING
C59	1°27'29"	500.00'	12.72'	12.72'	N89°49'36"E

CURVE DATA					
SEGMENT	DELTA	RADIUS	LENGTH	CHORD	CHORD BEARING
C60	88°32'31"	25.00'	38.63'	34.90'	S44°49'36"W
C61	91°27'29"	25.00'	39.91'	35.80'	S45°10'24"E
C62	90°00'00"	25.00'	39.27'	35.36'	S45°33'20"W
C63	90°00'00"	25.00'	39.27'	35.36'	N44°26'40"W
C64	90°00'00"	25.00'	39.27'	35.36'	N45°33'20"E
C65	90°00'00"	25.00'	39.27'	35.36'	S44°26'40"E
C66	90°00'00"	25.00'	39.27'	35.36'	N45°33'20"E
C67	90°00'00"	25.00'	39.27'	35.36'	N44°26'40"W



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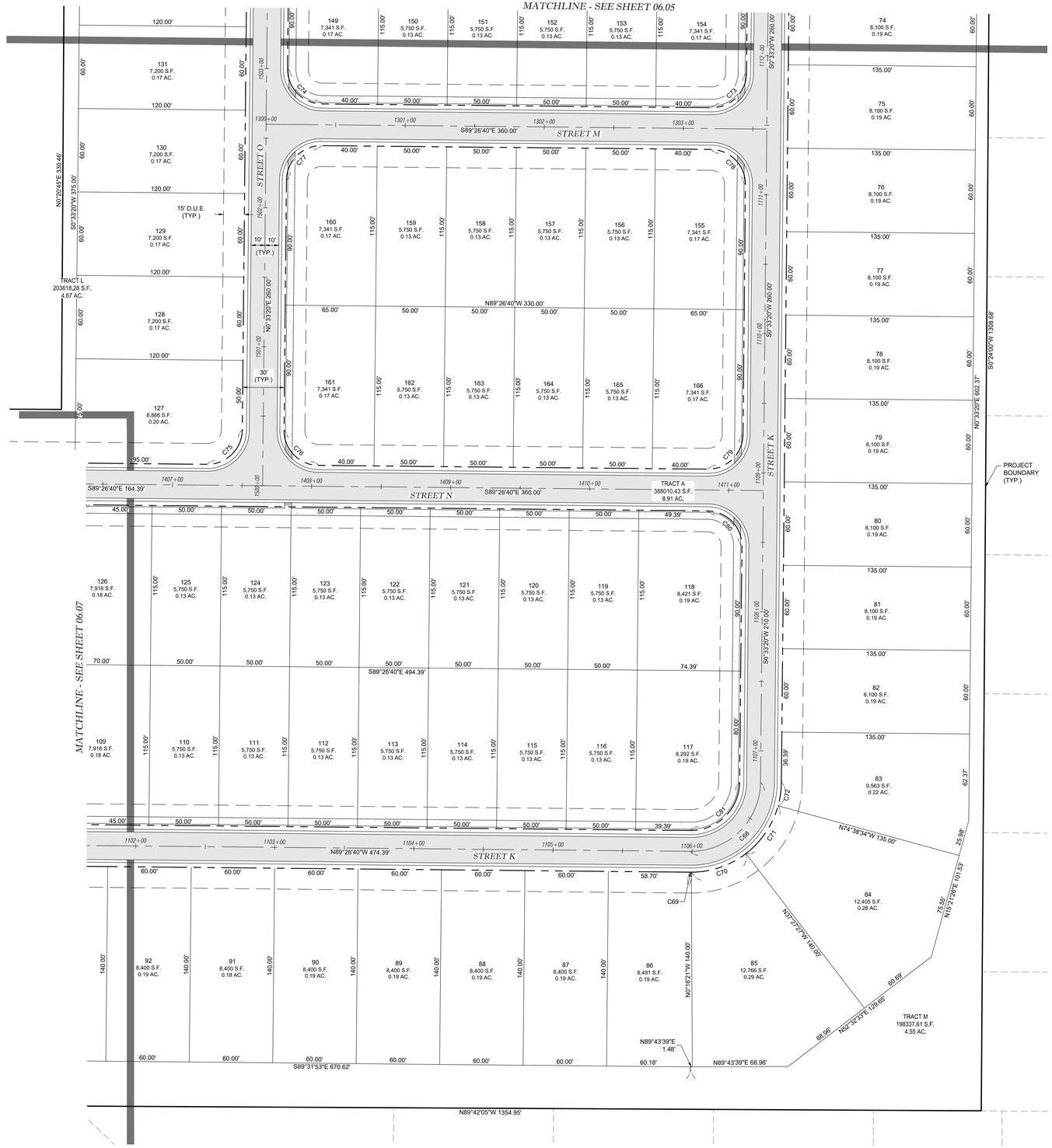


Marion County Approval Stamp

40' 20' 0 40' 80'

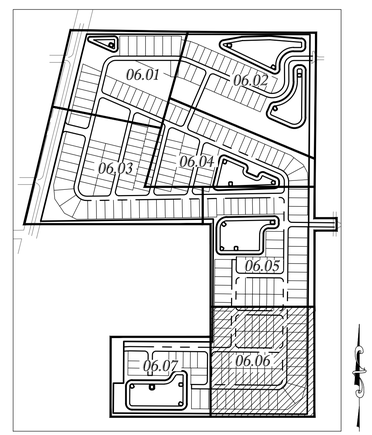
SCALE IN FEET
1"= 40'

LEGEND

D.U.E. = DRAINAGE, UTILITY AND ACCESS EASEMENT
D.E. = DRAINAGE EASEMENT
U.E. = UTILITY EASEMENT
CL= CENTERLINE

C/L CURVE DATA					
SEGMENT	DELTA	RADIUS	LENGTH	CHORD	CHORD BEARING
C68	90°00'00"	50.00'	78.54'	70.71'	S45°33'20"W

CURVE DATA					
SEGMENT	DELTA	RADIUS	LENGTH	CHORD	CHORD BEARING
C69	0°49'41"	65.00'	0.94'	0.94'	S89°51'30"E
C70	37°11'06"	65.00'	42.19'	41.45'	N71°08'06"E
C71	37°11'06"	65.00'	42.19'	41.45'	N33°57'00"E
C72	14°48'06"	65.00'	16.79'	16.75'	N7°57'23"E
C73	90°00'00"	25.00'	39.27'	35.36'	S45°33'20"W
C74	90°00'00"	25.00'	39.27'	35.36'	N44°26'40"W
C75	90°00'00"	25.00'	39.27'	35.36'	S45°33'20"W
C76	90°00'00"	25.00'	39.27'	35.36'	N44°26'40"W
C77	90°00'00"	25.00'	39.27'	35.36'	N45°33'20"E
C78	90°00'00"	25.00'	39.27'	35.36'	S44°26'40"E
C79	90°00'00"	25.00'	39.27'	35.36'	S45°33'20"W
C80	90°00'00"	25.00'	39.27'	35.36'	S44°26'40"E
C81	90°00'00"	35.00'	54.98'	49.50'	S45°33'20"W



KEY MAP
1" : 500' SCALE

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Tillman & Associates
ENGINEERING, LLC.
CIVIL ENGINEERING - PLANNING - LANDSCAPE ARCHITECTURE - ENVIRONMENTAL
1720 SE 16th Ave. Bldg 100, Ocala, FL 34471
Office: (352) 387-4540 Fax: (352) 387-4545
CERTIFICATE OF AUTHORIZATION #26756

REVISIONS

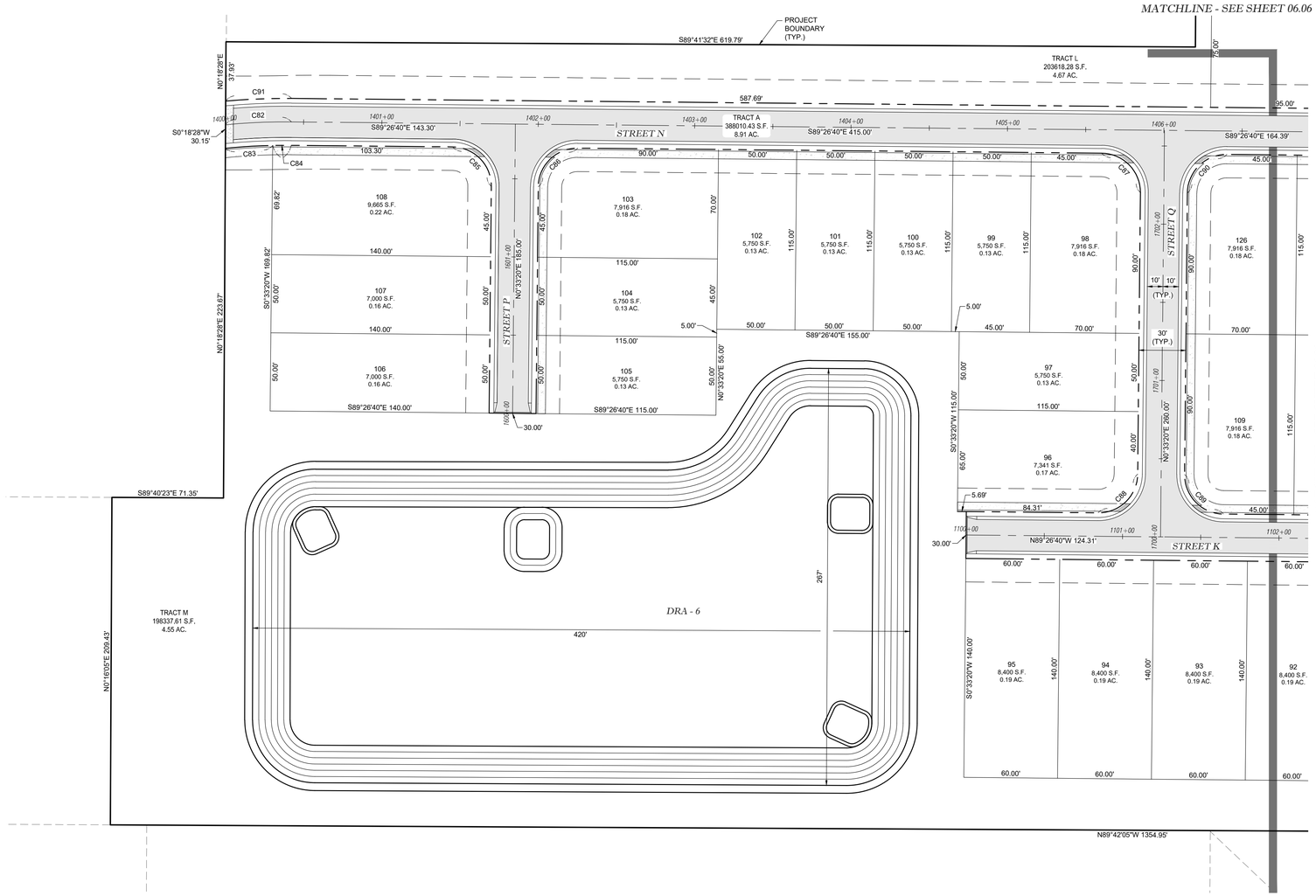
DATE

IMPROVEMENT PLANS
WOODRIDGE PLACE
MARION COUNTY, FLORIDA

GEOMETRY PLAN

DATE 7/10/2024
DRAWN BY AS
CHKD. BY JMM
JOB NO. 22-8136

SHT. 06.06



Marion County Approval Stamp

40' 20' 0 40' 80'

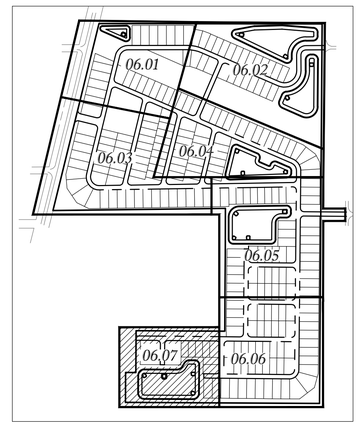
SCALE IN FEET
1"= 40'

LEGEND

D.U.E. = DRAINAGE, UTILITY AND ACCESS EASEMENT
D.E. = DRAINAGE EASEMENT
U.E. = UTILITY EASEMENT
CL= CENTERLINE

C/L CURVE DATA					
SEGMENT	DELTA	RADIUS	LENGTH	CHORD	CHORD BEARING
C82	6°01'36"	400.00'	42.07'	42.06'	N87°32'32"E

CURVE DATA					
SEGMENT	DELTA	RADIUS	LENGTH	CHORD	CHORD BEARING
C83	4°30'39"	385.00'	30.31'	30.30'	N86°33'30"E
C84	1°44'30"	385.00'	11.70'	11.70'	N89°41'05"E
C85	90°00'00"	25.00'	39.27'	35.36'	S44°26'40"E
C86	90°00'00"	25.00'	39.27'	35.36'	N45°33'20"E
C87	90°00'00"	25.00'	39.27'	35.36'	S44°26'40"E
C88	90°00'00"	25.00'	39.27'	35.36'	S45°33'20"W
C89	90°00'00"	25.00'	39.27'	35.36'	N44°26'40"W
C90	90°00'00"	25.00'	39.27'	35.36'	N45°33'20"E
C91	5°49'02"	415.00'	42.13'	42.12'	S87°38'49"W



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REVISIONS

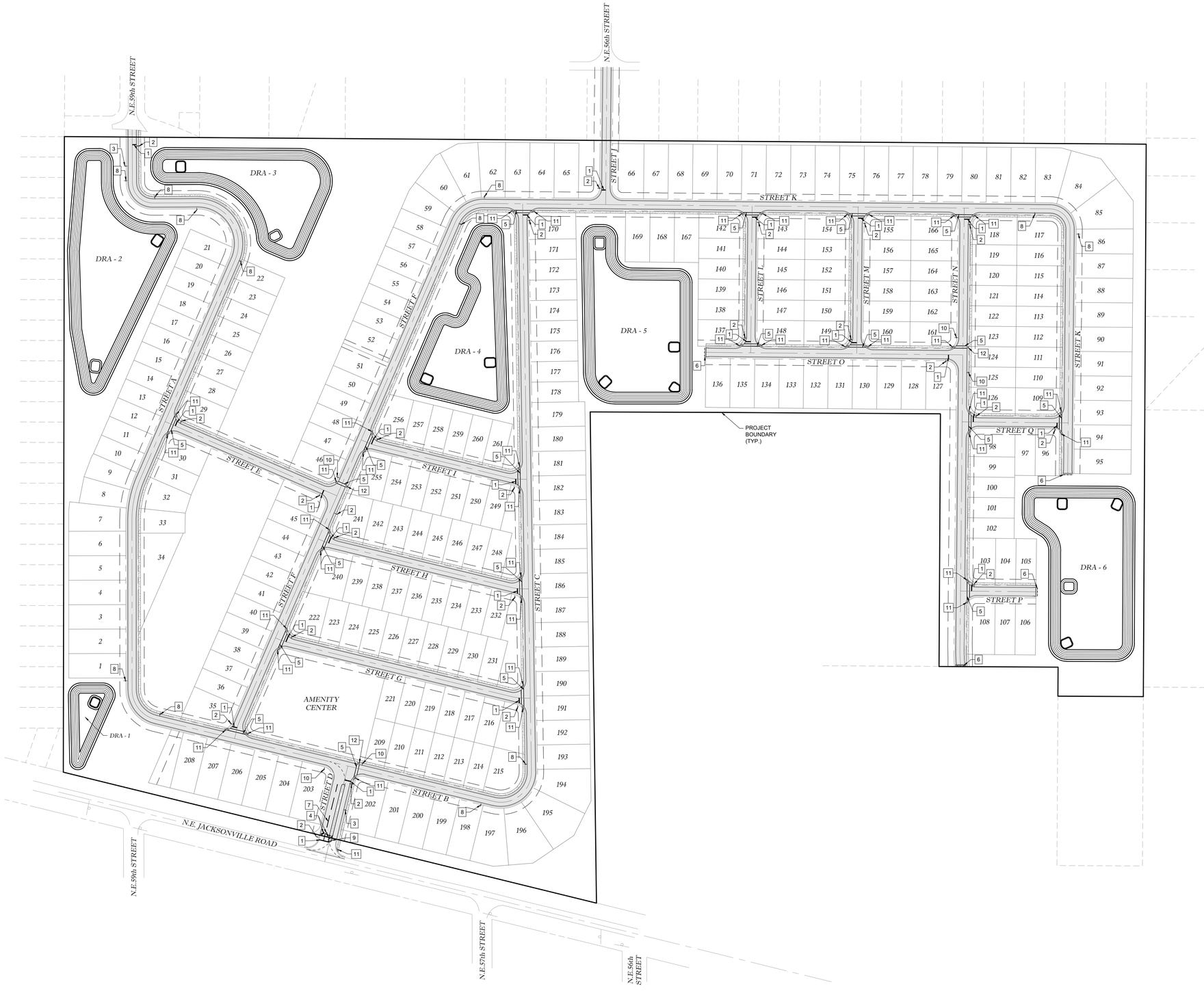
DATE

IMPROVEMENT PLANS
WOODRIDGE PLACE
MARION COUNTY, FLORIDA

GEOMETRY PLAN

DATE 7/10/2024
DRAWN BY AS
CHKD. BY IMM
JOB NO. 22-8136

SHT. 06.07



Marion County Approval Stamp

120' 60' 0 120' 240'

SCALE IN FEET
1" = 120'

LEGEND:

1. 24" WHITE STOP BAR
2. "STOP" SIGN (R1-1) w/COMBINED STREET SIGNS
3. "SPEED LIMIT 25MPH" SIGN (R2-1)
4. SOLID WHITE DIRECTIONAL ARROWS
5. 12" WHITE SOLID CROSSWALK
6. TEMPORARY CASE II STREET TERMINATION RED REFLECTORS FDOT INDEX 700-109
7. 6" SOLID DASHED WHITE LINE
8. CURVE WARNING SIGNS (W1-1L OR W1-1R) w/ADVISORY SPEED PLAQUE 15MPH (W13-1P)
9. GORE STRIPING
10. WATCH FOR PEDESTRIANS SIGN, "W11-2" WITH DOWN LEFT ARROW W16-7LP
11. FDOT CR-F SIDEWALK CURB RAMP W/DETECTABLE WARNING
12. FDOT CR-E SIDEWALK CURB RAMP w/DETECTABLE WARNING

NOTES:

1. ALL STREET NAME SIGNAGE PER 911 MANAGEMENT PLAN (SHEET RN.01)

C/L RADIUS	DESIGN	POSTED
>150'	30	20
<150'-100'	20	15
<100'-60'	15	15
<60'	10	10

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IMPROVEMENT PLANS
WOODRIDGE PLACE
MARION COUNTY, FLORIDA

SIGNAGE & STRIPING PLAN

DATE 7/10/2024
DRAWN BY AS
CHKD. BY JMM
JOB NO. 22-8136

SHT. 07.01

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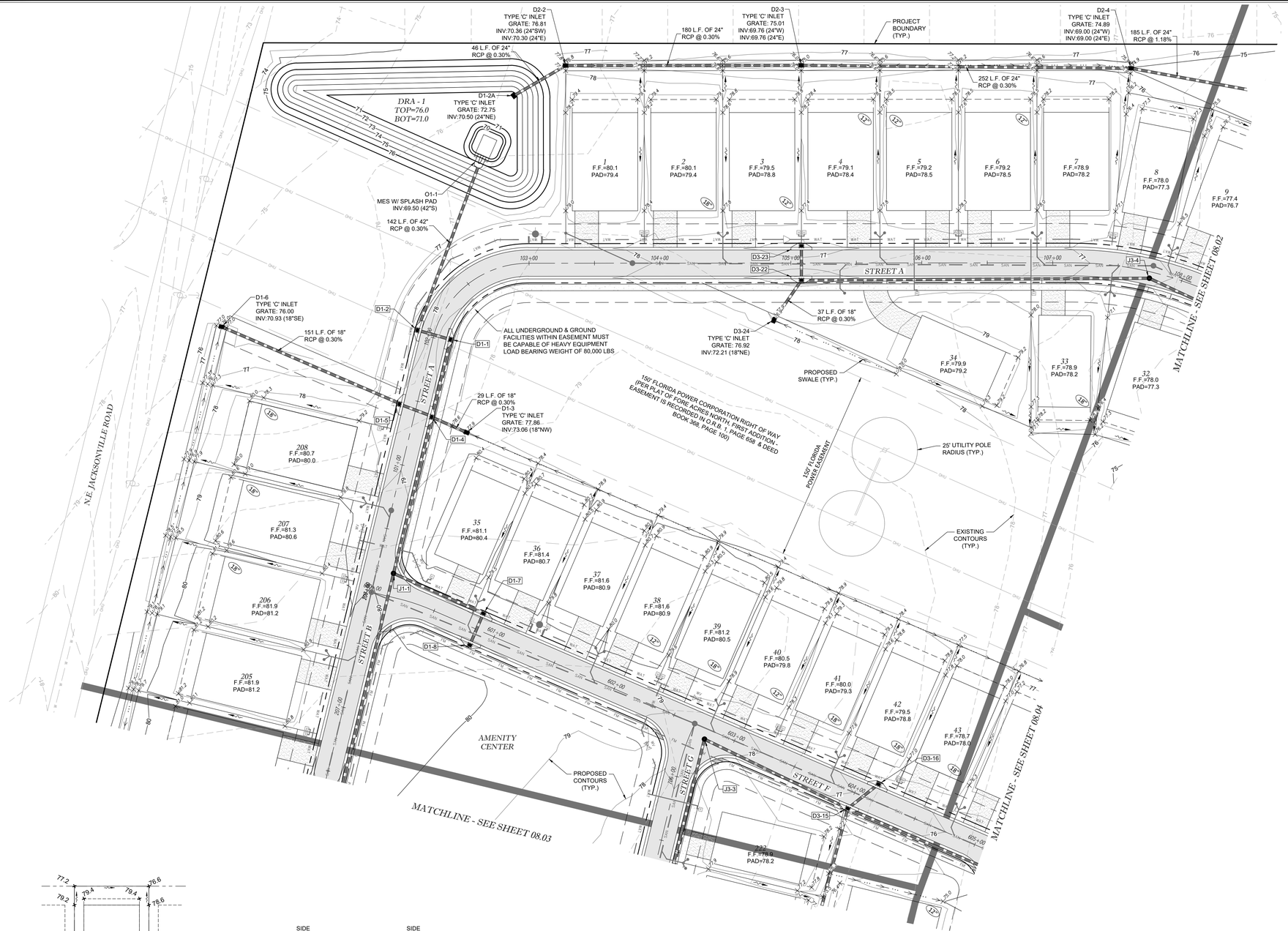
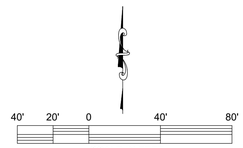




Marion County Approval Stamp

GRADING LEGEND

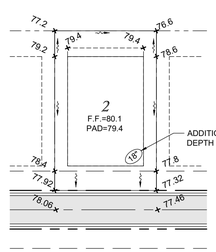
- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPOSED STORM PIPE
- PROPOSED FLOW DIRECTION
- PROPOSED SWALE BOTTOM
- PROPOSED STRUCTURE ID
- DROP CURB INLET
- GRATE INLET

GENERAL:

- 1% MINIMUM GRADE ALONG LOT LINES UNLESS OTHERWISE DENOTED.
- 25% MAXIMUM SLOPE ANYWHERE ON SITE, UNLESS OTHERWISE DENOTED.
- 8" (0.7') DIFFERENCE FROM PAD TO FINISHED FLOOR.
- MINIMUM 1% SLOPE FROM PAD TO ADJACENT LOT CORNER UNLESS OTHERWISE DENOTED.
- IF FINAL PRODUCT FALLS OUTSIDE OF PRESCRIBED, ENGINEER MUST REVIEW AND ADDITIONAL STEM WALLS AND STEP DOWNS MAY BE REQUIRED.

DRIVEWAYS:

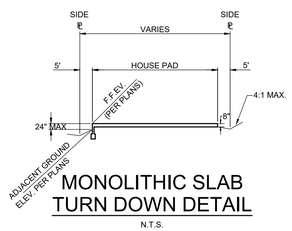
- RESTRICT DRIVEWAYS TO HIGH SIDE OF LOT IF STEEPER THAN 8% (BASED ON 25' DRIVEWAY).



NOTE:
FINISH LOT EVATION SHALL BE 4" BELOW PROPOSED FINISHED FLOOR EVATION

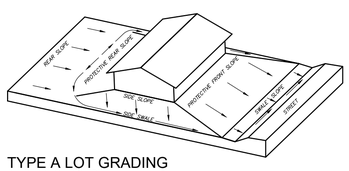
LOT GRADING DETAIL

N.T.S.



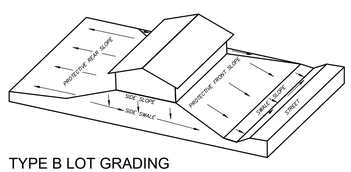
MONOLITHIC SLAB TURN DOWN DETAIL

N.T.S.



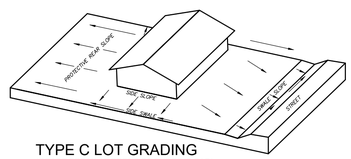
TYPE A LOT GRADING

ALL DRAINAGE TO STREET



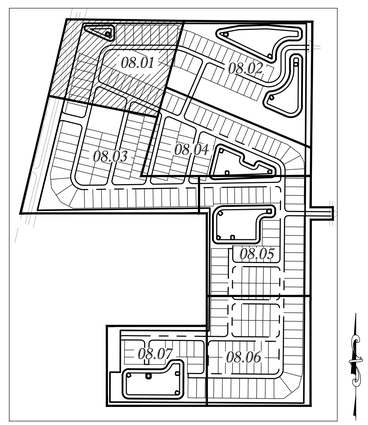
TYPE B LOT GRADING

(GRADE BREAK NEAR REAR OR CENTER OF BUILDING PAD)



TYPE C LOT GRADING

(GRADE BREAK AT FRONT OF BUILDING PAD)



KEY MAP
1" : 500' SCALE

NOT VALID UNLESS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER

S:\Marion County\Harvey Vandeven_Summerbrooke Estates nka Woodland Place, NKA Woodridge Place\CIVIL\CONSTRUCTION\08 Lot Grading plan.dwg, 7/10/2024 1:43:41 PM

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REVISIONS

DATE

IMPROVEMENT PLAN
WOODRIDGE PLACE
MARION COUNTY, FLORIDA

LOT GRADING PLAN

DATE 7/10/2024
DRAWN BY AS
CHKD. BY JMM
JOB NO. 22-8136

SHT. 08.01

D2-5
TYPE 'C' INLET
GRATE: 72.00
INV:66.81 (24"W)
INV:55.42 (24"E)

141 L.F. OF 24"
RCP @ 0.30%

185 L.F. OF 24"
RCP @ 1.18%

O2-2
MES W/ SPLASH PAD
INV:55.00 (24"W)

PROJECT
BOUNDARY
(TYP.)

DRA - 2
TOP=62.0
BOT=56.0

N.E. 59th STREET

O2-1
MES W/ SPLASH PAD
INV:55.50 (36"SE)

63 L.F. OF 36"
RCP @ 0.30%

O3-2
MES W/ SPLASH PAD
INV:55.50 (36"W)

86 L.F. OF 36"
RCP @ 0.30%

MATCHLINE - SEE SHEET 08.01

STREET A

STREET E

8
F.F.=78.0
PAD=77.3

9
F.F.=77.4
PAD=76.7

10
F.F.=76.7
PAD=76.0

11
F.F.=75.9
PAD=75.2

12
F.F.=75.1
PAD=74.4

13
F.F.=74.4
PAD=73.7

14
F.F.=73.6
PAD=72.9

15
F.F.=72.8
PAD=72.1

16
F.F.=72.0
PAD=71.3

17
F.F.=71.3
PAD=70.6

18
F.F.=70.5
PAD=69.8

19
F.F.=69.7
PAD=69.0

20
F.F.=68.9
PAD=68.2

21
F.F.=68.2
PAD=67.5

32
F.F.=78.0
PAD=77.3

31
F.F.=76.6
PAD=75.9

30
F.F.=75.9
PAD=75.2

29
F.F.=73.4
PAD=72.7

28
F.F.=73.1
PAD=72.4

27
F.F.=72.3
PAD=71.6

26
F.F.=71.5
PAD=70.8

25
F.F.=70.8
PAD=70.1

24
F.F.=70.0
PAD=69.3

23
F.F.=69.2
PAD=68.5

22
F.F.=68.4
PAD=67.7

D3-1 D3-2 D3-3 D3-4 D3-5 D3-6 D3-7 D3-20 D3-21 D3-25 D3-26 J3-1 J3-4

PROPOSED
CONTOURS
(TYP.)

ALL UNDERGROUND & GROUND
FACILITIES WITHIN EASEMENT MUST
BE CAPABLE OF HEAVY EQUIPMENT
LOAD BEARING WEIGHT OF 80,000 LBS

150' FLORIDA
POWER EASEMENT

150' FLORIDA POWER CORPORATION RIGHT OF WAY
(PER PLAT OF FORE ACRES NORTH, FIRST ADDITION - EASEMENT IS
RECORDED IN O.R.B. 1, PAGE 858 & DEED BOOK 368, PAGE 100)

72 L.F. OF 42"
RCP @ 0.15%

DRA - 3
TOP=62.0
BOT=56.0

O3-1
MES W/ SPLASH PAD
INV:55.00 (42"NW)

MATCHLINE - SEE SHEET 08.04

D4-18
TYPE 'C' INLET
GRATE: 66.09
INV:61.38 (18"SE)
INV:61.38 (24"SW)

110 L.F. OF 18"
RCP @ 0.42%

D4-19
TYPE 'C' INLET
GRATE: 66.55
INV:61.84 (18"SE)
INV:61.84 (18"NW)

297 L.F. OF 18"
RCP @ 0.49%

D4-20
TYPE 'C' INLET

EXISTING
CONTOURS
(TYP.)

25' UTILITY POLE
RADIUS (TYP.)

Marion County Approval Stamp

40' 20' 0 40' 80'
SCALE IN FEET
1" = 40'

GRADING LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPOSED STORM PIPE
- PROPOSED FLOW DIRECTION
- PROPOSED SWALE BOTTOM
- PROPOSED STRUCTURE ID
- DROP CURB INLET
- GRATE INLET

08.01 08.02 08.03 08.04 08.05 08.06 08.07

KEY MAP
1" : 500' SCALE

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REVISIONS

DATE

LOT GRADING PLAN

IMPROVEMENT PLAN
WOODRIDGE PLACE
MARION COUNTY, FLORIDA

DATE 7/10/2024
DRAWN BY AS
CHKD. BY JMM
JOB NO. 22-8136

SHT. 08.02

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GRADING LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPOSED STORM PIPE
- PROPOSED FLOW DIRECTION
- PROPOSED SWALE BOTTOM
- PROPOSED STRUCTURE ID (D-22)
- DROP CURB INLET
- GRATE INLET

SCALE IN FEET
1" = 40'

MATCHLINE - SEE SHEET 08.01

MATCHLINE - SEE SHEET 08.04

MATCHLINE - SEE SHEET 08.05

AMENITY CENTER

STREET D

STREET B

STREET G

STREET C

STREET F

N.E. JACKSONVILLE ROAD

OFFSITE IMPROVEMENTS UNDER SEPARATE PLAN SET

PROPOSED CONTOURS (TYP.)

PROPOSED SWALE (TYP.)

EXISTING CONTOURS (TYP.)

PROJECT BOUNDARY (TYP.)

D1-14 TYPE 'C' INLET GRATE: 77.81 INV:73.39 (18"S)
88 L.F. OF 18" RCP @ 0.30%

D1-10

D1-9

D1-11

D1-12

D1-13

D3-18

D3-19

D3-17 TYPE 'C' INLET GRATE: 75.00 INV:69.91 (18"N)

D4-10 TYPE 'C' INLET GRATE: 73.20 INV:67.95 (18"S)
232 L.F. OF 18" RCP @ 0.30%

D4-8

D4-7

D4-4

D4-3

D4-13 TYPE 'C' INLET GRATE: 75.80 INV:70.70 (18"S)

D4-12

D4-11

D4-14

86 L.F. OF 18" RCP @ 0.30%

109 L.F. OF 18" RCP @ 0.30%

106 L.F. OF 18" RCP @ 0.30%

D4-15

98 L.F. OF 18" RCP @ 0.30%

D4-9

D4-5

D4-5A

J4-1

J4-2

J4-3

J4-4

J4-5

45-4 STORM MANHOLE RIM: 75.00 INV:69.20 (18"N) INV:69.20 (18"SE)

121 L.F. OF 18" RCP @ 0.30%

D5-34 TYPE 'C' INLET GRATE: 73.60 INV:68.84 (18"NW) INV:68.84 (18"SE)

95 L.F. OF 18" RCP @ 1.00%

D5-35 TYPE 'C' INLET GRATE: 74.20 INV:69.48 (18"S)

D5-33 TYPE 'C' INLET GRATE: 72.60 INV:67.89 (18"NW) INV:67.89 (18"E)

259 L.F. OF 18" RCP @ 0.30%

D5-32 TYPE 'C' INLET GRATE: 72.10 INV:67.11 (18"W) INV:67.11 (18"E)

120 L.F. OF 18" RCP @ 0.77%

D5-31 TYPE 'C' INLET GRATE: 70.90 INV:66.19 (18"W) INV:65.65 (24"E)

300 L.F. OF 24" RCP @ 0.78%

D5-30 TYPE 'C' INLET GRATE: 69.10 INV:63.31 (24"W) INV:63.31 (24"E)

240 L.F. OF 24" RCP @ 1.05%

199 F.F.=80.1 PAD=79.4	200 F.F.=81.0 PAD=80.3	201 F.F.=81.9 PAD=81.2	202 F.F.=82.5 PAD=81.8
198 F.F.=79.2 PAD=78.5	213 F.F.=79.9 PAD=79.2	212 F.F.=80.7 PAD=80.0	211 F.F.=81.4 PAD=80.7
197 F.F.=78.3 PAD=77.6	214 F.F.=79.2 PAD=78.5	215 F.F.=78.4 PAD=77.7	210 F.F.=82.2 PAD=81.5
196 F.F.=77.7 PAD=77.0	195 F.F.=77.7 PAD=77.0	194 F.F.=78.0 PAD=77.3	193 F.F.=78.2 PAD=77.5
192 F.F.=78.2 PAD=77.5	191 F.F.=77.6 PAD=76.9	190 F.F.=76.9 PAD=76.2	189 F.F.=76.3 PAD=75.6
188 F.F.=75.6 PAD=74.9	187 F.F.=75.0 PAD=74.3	186 F.F.=75.0 PAD=74.3	185 F.F.=73.6 PAD=72.9
184 F.F.=73.0 PAD=72.3	183 F.F.=72.3 PAD=71.6	182 F.F.=71.6 PAD=70.9	181 F.F.=71.0 PAD=70.3
180 F.F.=70.3 PAD=69.6	203 F.F.=82.1 PAD=81.4	204 F.F.=81.7 PAD=81.0	209 F.F.=82.6 PAD=81.9
221 F.F.=80.1 PAD=79.4	220 F.F.=79.6 PAD=78.9	219 F.F.=79.1 PAD=78.4	218 F.F.=78.6 PAD=77.9
217 F.F.=77.9 PAD=77.2	216 F.F.=77.4 PAD=76.7	222 F.F.=79.0 PAD=78.3	223 F.F.=78.9 PAD=78.2
224 F.F.=79.3 PAD=78.6	225 F.F.=79.5 PAD=78.8	226 F.F.=79.4 PAD=78.7	227 F.F.=78.9 PAD=78.2
228 F.F.=78.4 PAD=77.7	229 F.F.=77.9 PAD=77.2	230 F.F.=77.4 PAD=76.7	231 F.F.=76.9 PAD=76.2
232 F.F.=74.5 PAD=73.8	233 F.F.=74.9 PAD=74.2	234 F.F.=75.5 PAD=74.8	235 F.F.=76.1 PAD=75.4
236 F.F.=76.7 PAD=76.0	237 F.F.=77.3 PAD=76.6	238 F.F.=76.7 PAD=76.0	239 F.F.=76.7 PAD=76.0
240 F.F.=77.1 PAD=76.4	248 F.F.=73.4 PAD=72.7	249 F.F.=72.0 PAD=71.3	261 F.F.=71.1 PAD=70.4

KEY MAP
1" : 500' SCALE

08.01 08.02 08.03 08.04 08.05 08.06 08.07

Marion County Approval Stamp

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CERTIFICATION OF AUTHORIZATION #26756

REVISIONS

DATE

IMPROVEMENT PLAN
WOODRIDGE PLACE
MARION COUNTY, FLORIDA

LOT GRADING PLAN

DATE 7/10/2024
DRAWN BY AS
CHKD. BY JMM
JOB NO. 22-8136

SHT. 08.03

NOT VALID UNLESS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER

S:\Marion County\Harvey Vandeven_Summerbrooke Estates nka Woodland Place, NKA Woodridge Place\CIVIL\CONSTRUCTION\08 Lot Grading plan.dwg, 7/10/2024 1:44:09 PM

GRADING LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPOSED STORM PIPE
- PROPOSED FLOW DIRECTION
- PROPOSED SWALE BOTTOM
- D-22 — PROPOSED STRUCTURE ID
- DROP CURB INLET
- GRATE INLET

40' 20' 0 40' 80'
SCALE IN FEET
1" = 40'

MATCHLINE - SEE SHEET 08.01

MATCHLINE - SEE SHEET 08.04

MATCHLINE - SEE SHEET 08.05

AMENITY CENTER

STREET D

STREET B

STREET G

STREET C

STREET F

N.E. JACKSONVILLE ROAD

OFFSITE IMPROVEMENTS UNDER SEPARATE PLAN SET

PROPOSED CONTOURS (TYP.)

PROPOSED SWALE (TYP.)

EXISTING CONTOURS (TYP.)

PROJECT BOUNDARY (TYP.)

D1-14 TYPE 'C' INLET GRATE: 77.81 INV:73.39 (18"S)
88 L.F. OF 18" RCP @ 0.30%

D3-17 TYPE 'C' INLET GRATE: 75.00 INV:69.91 (18"N)

D4-10 TYPE 'C' INLET GRATE: 73.20 INV:67.95 (18"S)
120 L.F. OF 18" RCP @ 0.30%

D4-13 TYPE 'C' INLET GRATE: 75.80 INV:70.70 (18"S)
86 L.F. OF 18" RCP @ 0.30%

109 L.F. OF 18" RCP @ 0.30%

106 L.F. OF 18" RCP @ 0.30%

98 L.F. OF 18" RCP @ 0.30%

45-4 STORM MANHOLE RIM: 75.00 INV:69.20 (18"N) INV:69.20 (18"SE)

121 L.F. OF 18" RCP @ 0.30%

D5-34 TYPE 'C' INLET GRATE: 73.60 INV:68.84 (18"NW) INV:68.84 (18"SE)

95 L.F. OF 18" RCP @ 1.00%

D5-33 TYPE 'C' INLET GRATE: 72.60 INV:67.89 (18"NW) INV:67.89 (18"E)

259 L.F. OF 18" RCP @ 0.30%

D5-32 TYPE 'C' INLET GRATE: 72.10 INV:67.11 (18"W) INV:67.11 (18"E)

120 L.F. OF 18" RCP @ 0.77%

D5-31 TYPE 'C' INLET GRATE: 70.90 INV:66.19 (18"W) INV:65.65 (24"E)

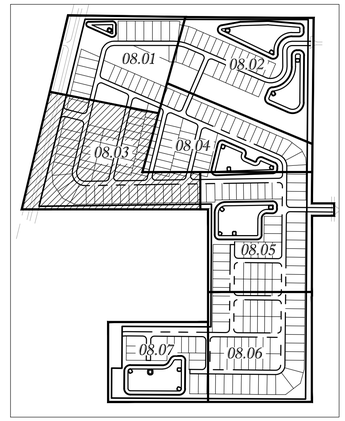
300 L.F. OF 24" RCP @ 0.78%

D5-30 TYPE 'C' INLET GRATE: 69.10 INV:63.31 (24"W) INV:63.31 (24"E)

240 L.F. OF 24" RCP @ 1.05%

D5-35 TYPE 'C' INLET GRATE: 74.20 INV:69.49 (18"S)

204 F.F.=81.7 PAD=81.0	203 F.F.=82.1 PAD=81.4	202 F.F.=82.5 PAD=81.8
201 F.F.=81.9 PAD=81.2	200 F.F.=81.0 PAD=80.3	199 F.F.=80.1 PAD=79.4
198 F.F.=79.2 PAD=78.5	197 F.F.=78.3 PAD=77.6	196 F.F.=77.7 PAD=77.0
195 F.F.=77.7 PAD=77.0	194 F.F.=78.0 PAD=77.3	193 F.F.=78.2 PAD=77.5
192 F.F.=78.2 PAD=77.5	191 F.F.=77.6 PAD=76.9	190 F.F.=76.9 PAD=76.2
189 F.F.=76.3 PAD=75.6	188 F.F.=75.6 PAD=74.9	187 F.F.=75.0 PAD=74.3
186 F.F.=75.0 PAD=74.3	185 F.F.=73.6 PAD=72.9	184 F.F.=73.0 PAD=72.3
183 F.F.=72.3 PAD=71.6	182 F.F.=71.6 PAD=70.9	181 F.F.=71.0 PAD=70.3
180 F.F.=70.3 PAD=69.6	209 F.F.=82.6 PAD=81.9	210 F.F.=82.2 PAD=81.5
211 F.F.=81.4 PAD=80.7	212 F.F.=80.7 PAD=80.0	213 F.F.=79.9 PAD=79.2
214 F.F.=79.2 PAD=78.5	215 F.F.=78.4 PAD=77.7	216 F.F.=77.4 PAD=76.7
217 F.F.=77.9 PAD=77.2	218 F.F.=78.6 PAD=77.9	219 F.F.=79.1 PAD=78.4
220 F.F.=79.6 PAD=78.9	221 F.F.=80.1 PAD=79.4	222 F.F.=79.0 PAD=78.3
223 F.F.=79.9 PAD=78.2	224 F.F.=79.3 PAD=78.6	225 F.F.=79.5 PAD=78.8
226 F.F.=79.4 PAD=78.7	227 F.F.=78.9 PAD=78.2	228 F.F.=78.4 PAD=77.7
229 F.F.=77.9 PAD=77.2	230 F.F.=77.4 PAD=76.7	231 F.F.=76.9 PAD=76.2
232 F.F.=74.5 PAD=73.8	233 F.F.=74.9 PAD=74.2	234 F.F.=75.5 PAD=74.8
235 F.F.=76.1 PAD=75.4	236 F.F.=76.7 PAD=76.0	237 F.F.=77.3 PAD=76.6
238 F.F.=76.7 PAD=76.0	239 F.F.=76.7 PAD=76.0	240 F.F.=77.1 PAD=76.4
248 F.F.=73.4 PAD=72.7	249 F.F.=72.0 PAD=71.3	261 F.F.=71.1 PAD=70.4



KEY MAP
1" : 500' SCALE

Marion County Approval Stamp

Tillman & Associates
ENGINEERING, LLC.
CIVIL ENGINEERING - PLANNING - LANDSCAPE ARCHITECTURE - ENVIRONMENTAL
1720 SE 16th Ave. Bldg 100, Ocala, FL 34471
Office: (352) 387-4540 Fax: (352) 387-4545
CERTIFICATION OF AUTHORIZATION #26756

REVISIONS

DATE

IMPROVEMENT PLAN
WOODRIDGE PLACE
MARION COUNTY, FLORIDA

LOT GRADING PLAN

DATE 7/10/2024
DRAWN BY AS
CHKD. BY JMM
JOB NO. 22-8136

SHT. 08.03

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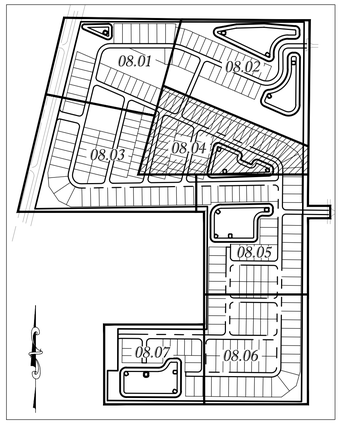
GRADING LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPOSED STORM PIPE
- PROPOSED FLOW DIRECTION
- PROPOSED SWALE BOTTOM
- PROPOSED STRUCTURE ID (D-22)
- DROP CURB INLET
- GRATE INLET



KEY MAP
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Marion County Approval Stamp

40' 20' 0 40' 80'
SCALE IN FEET
1" = 40'

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MARION COUNTY, FLORIDA

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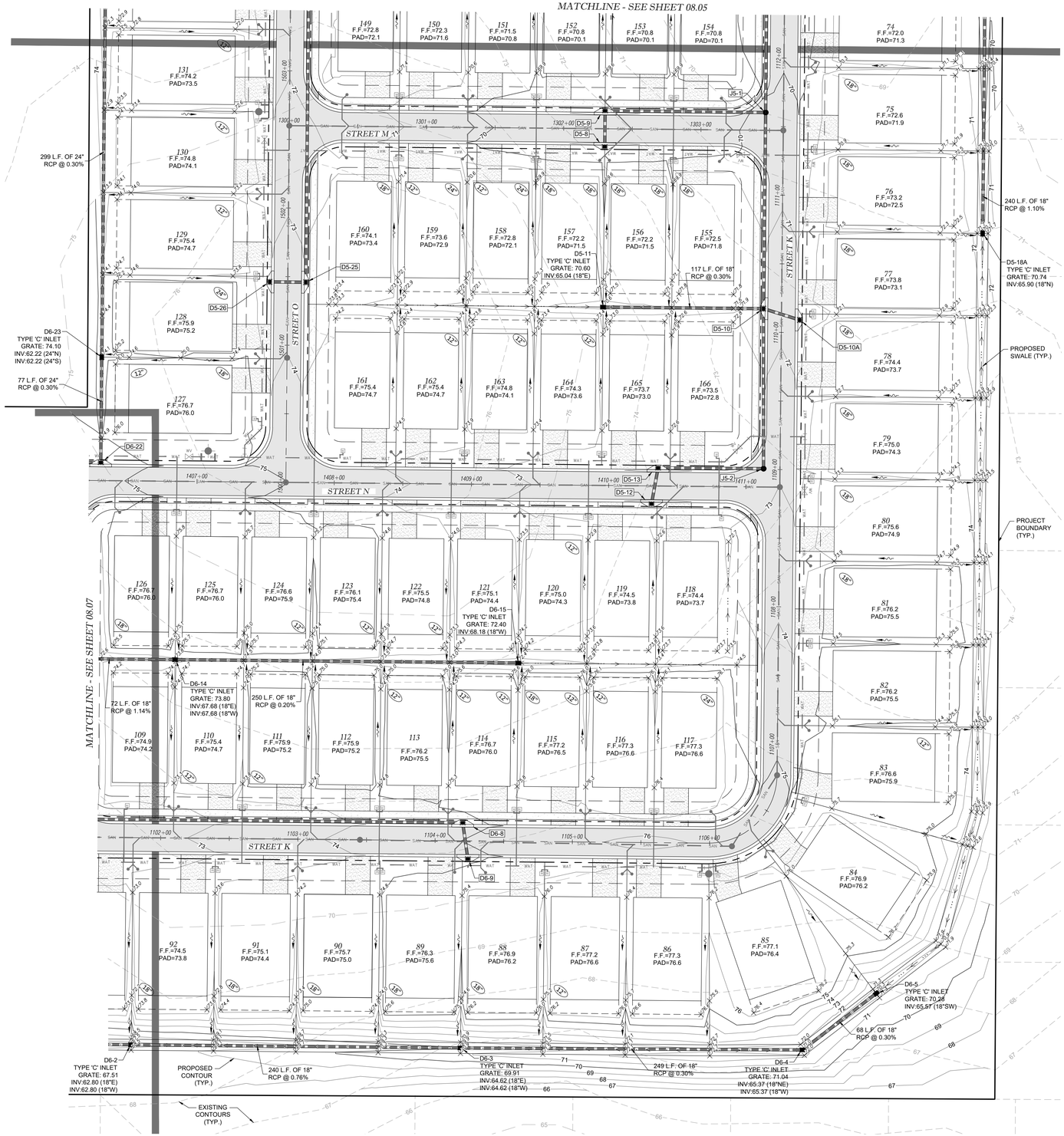

Marion County Approval Stamp

40' 20' 0 40' 80'

SCALE IN FEET
1" = 40'

GRADING LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS
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- PROPOSED SWALE BOTTOM
- D-22 PROPOSED STRUCTURE ID
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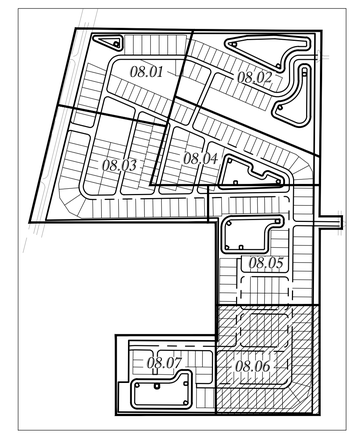

KEY MAP
1" : 500' SCALE

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MARION COUNTY, FLORIDA

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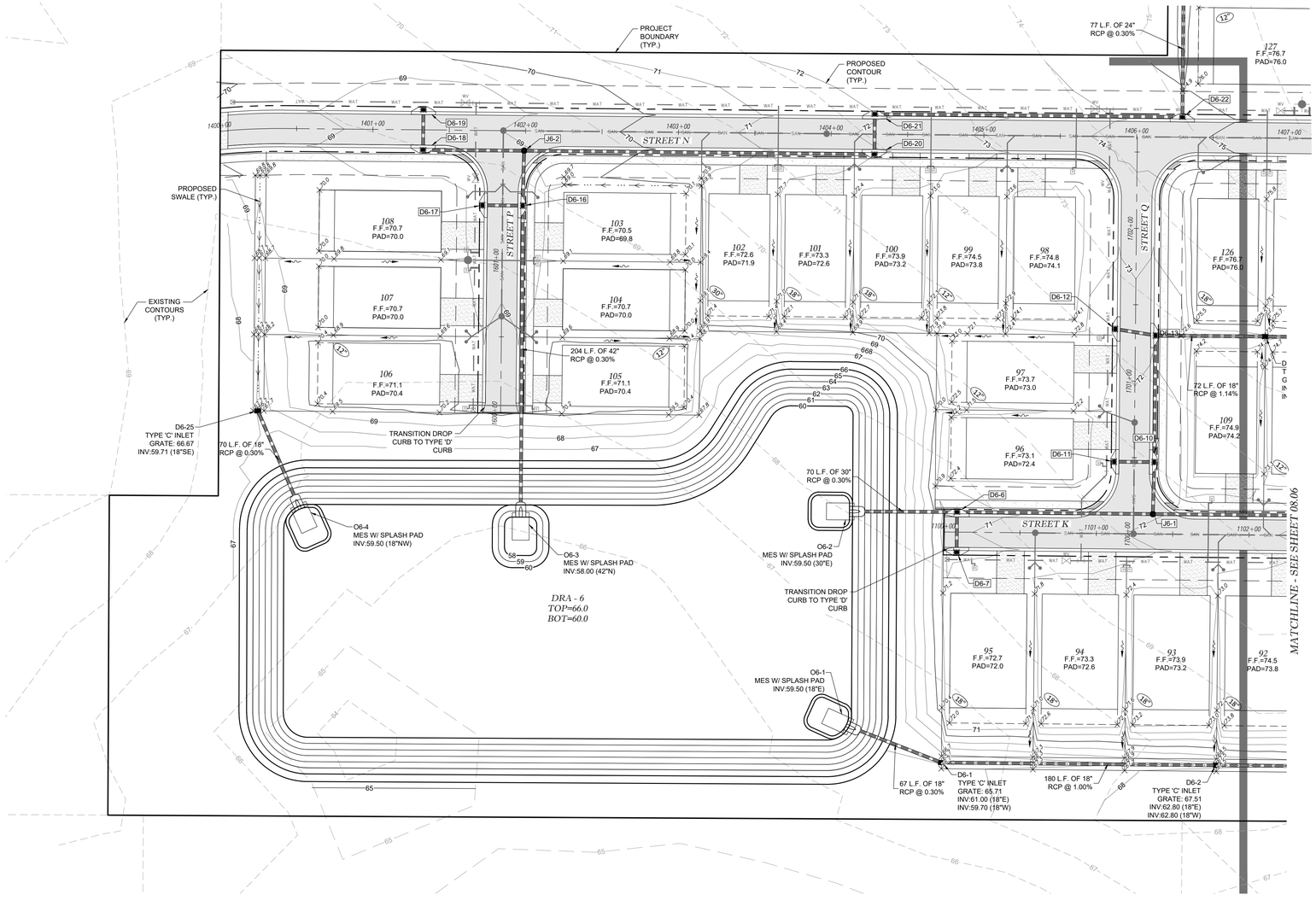


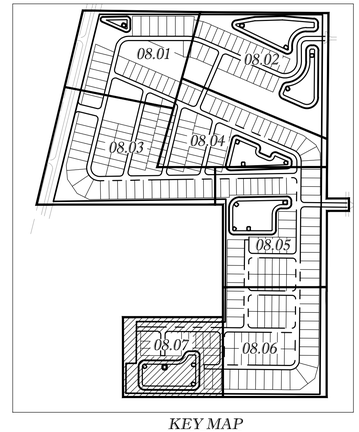
Marion County Approval Stamp

40' 20' 0 40' 80'

SCALE IN FEET
1" = 40'

GRADING LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPOSED STORM PIPE
- PROPOSED FLOW DIRECTION
- PROPOSED SWALE BOTTOM
- D-22 PROPOSED STRUCTURE ID
- DROP CURB INLET
- GRATE INLET



KEY MAP
1" : 500' SCALE

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REVISIONS

DATE

LOT GRADING PLAN

IMPROVEMENT PLAN
WOODRIDGE PLACE
MARION COUNTY, FLORIDA

DATE 7/10/2024
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SHT. 08.07

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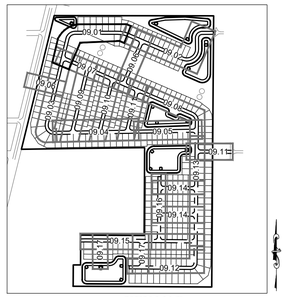


KEY MAP
SCALE: 1" = 700'

WATER LEGEND:

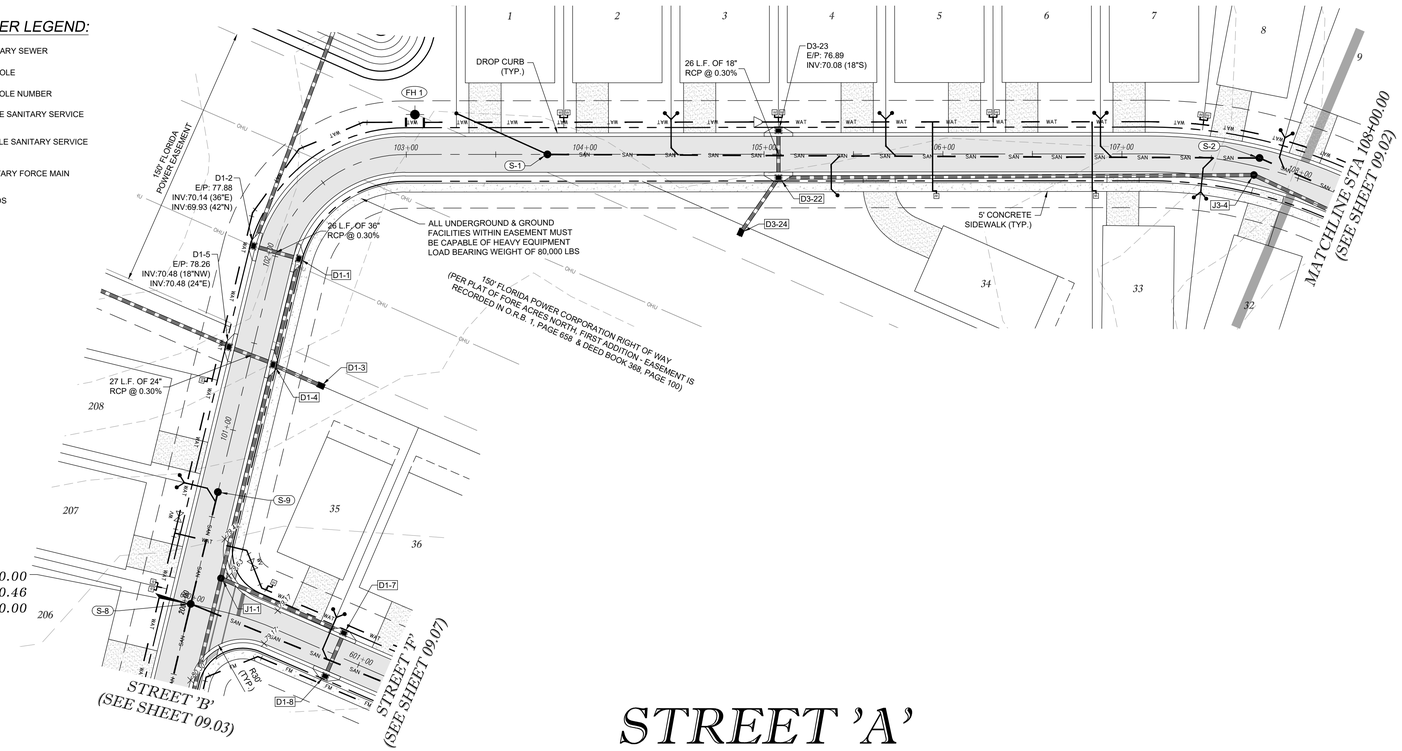
- WAT — WATER MAIN
- WAT — FIRE HYDRANT ASSEMBLY (FHA)
- TEE
- BENDS
- GATE VALVE & BOX
- BLOW OF ASSEMBLY
- FH # — FIRE HYDRANT NUMBER
- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE
- REDUCER

SANITARY SEWER LEGEND:

- SAN — SANITARY SEWER
- MANHOLE
- S-10 — MANHOLE NUMBER
- SINGLE SANITARY SERVICE
- DOUBLE SANITARY SERVICE
- FM — SANITARY FORCE MAIN
- BENDS

STORM WATER LEGEND:

- DROP CURB INLET
- STORM MANHOLE
- STORM PIPE
- D2-14 — STORM STRUCTURE ID



STREET 'A'

Tillman & Associates
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1720 SE 16th Ave. Bldg 100, Ocala, FL 34471
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CERTIFICATE OF AUTHORIZATION #26795

Marion County Approval Stamp

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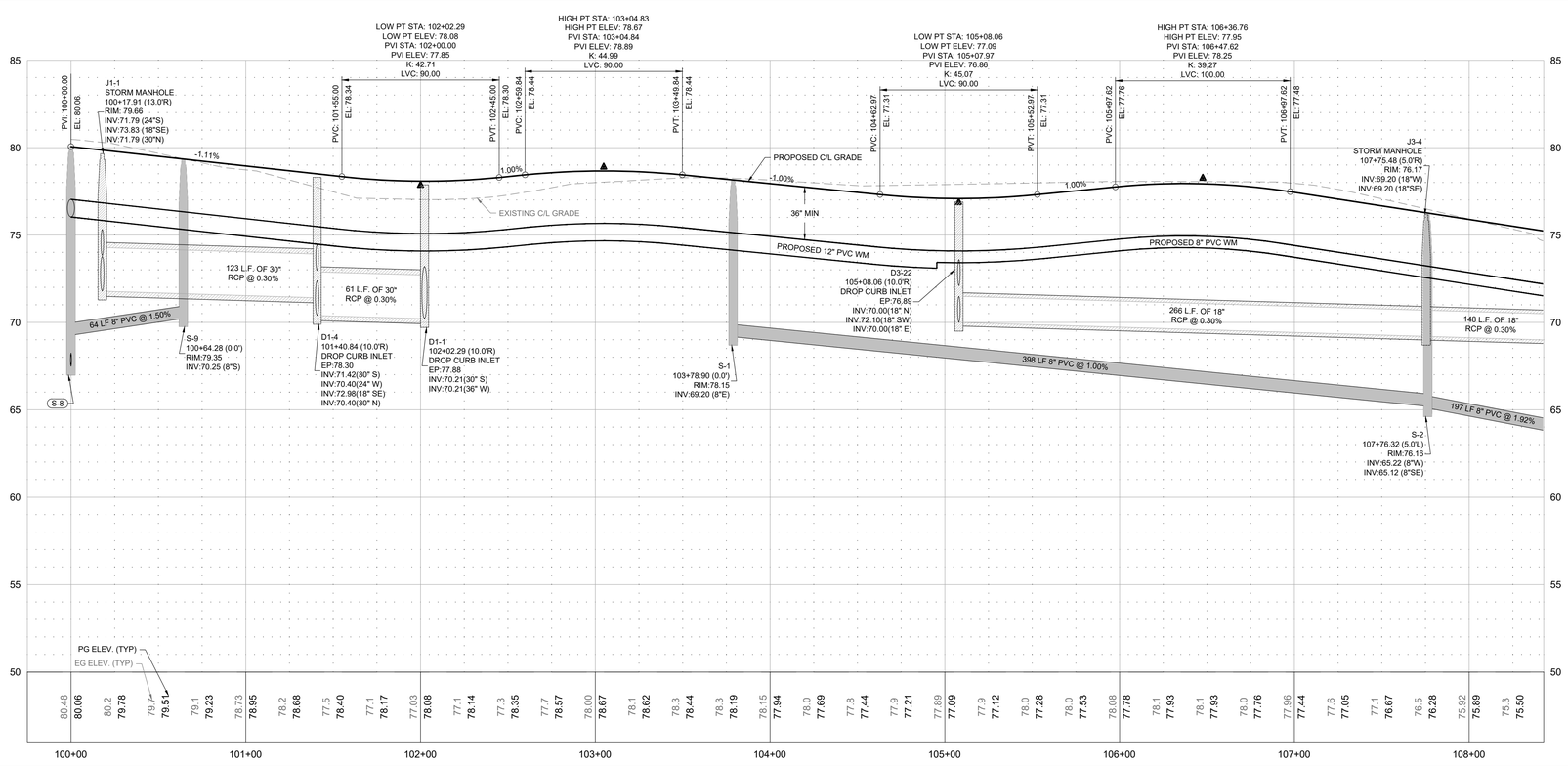
DATE

40' 20' 0 40' 80'
SCALE IN FEET
1" = 40'

HORZ. SCALE 1" = 40'
VERT. SCALE 1" = 4'



PLAN & PROFILE STREET 'A'

IMPROVEMENT PLAN
WOODRIDGE PLACE
MARION COUNTY, FLORIDA

DATE 7/10/2024
DRAWN BY AS
CHKD. BY JMM
JOB NO. 22-8136

SHT. 09.01

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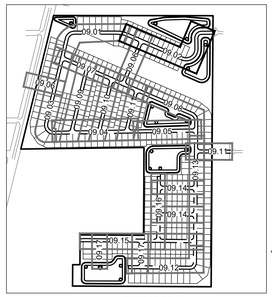


KEY MAP
SCALE: 1" = 700'

WATER LEGEND:

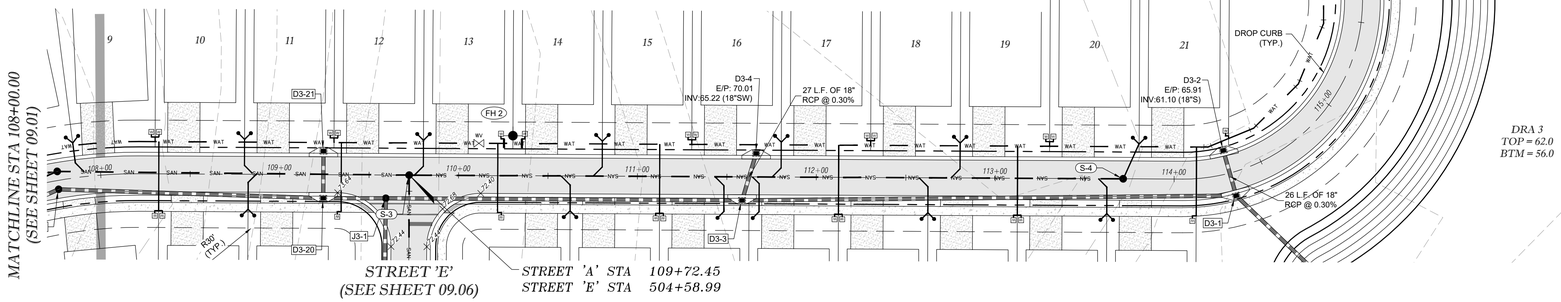
- WAT — WATER MAIN
- WAT — FIRE HYDRANT ASSEMBLY (FHA)
- TEE
- BENDS (90°, 45°, 22.5°, 11.25°)
- GATE VALVE & BOX
- BLOW OF ASSEMBLY
- FH # — FIRE HYDRANT NUMBER
- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE
- REDUCER

SANITARY SEWER LEGEND:

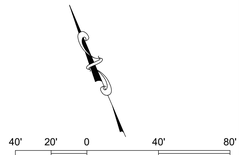
- SAN — SANITARY SEWER
- MANHOLE
- S-10 — MANHOLE NUMBER
- SINGLE SANITARY SERVICE
- DOUBLE SANITARY SERVICE
- FM — SANITARY FORCE MAIN
- BENDS (90°, 45°, 22.5°)

STORM WATER LEGEND:

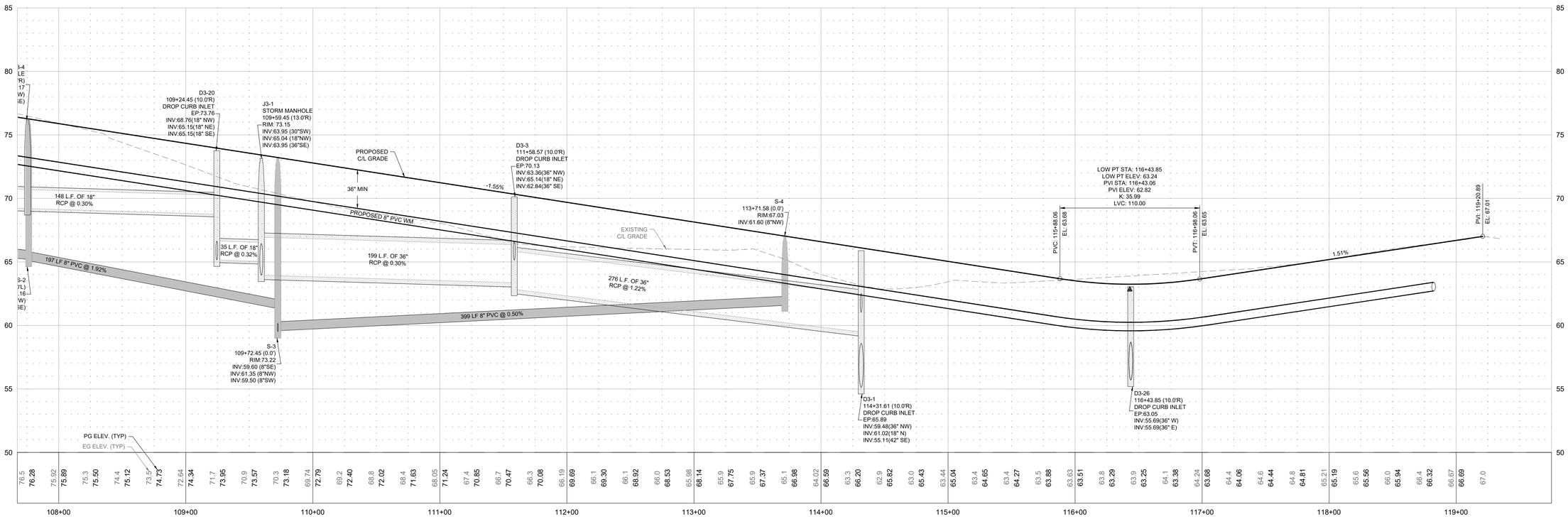
- DROP CURB INLET
- STORM MANHOLE
- STORM PIPE
- D2-14 — STORM STRUCTURE ID



STREET 'A'



HORZ. SCALE 1" = 40'
VERT. SCALE 1" = 4'



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CERTIFICATE OF AUTHORIZATION # 26756

REVISIONS

DATE

IMPROVEMENT PLAN
WOODRIDGE PLACE
MARION COUNTY, FLORIDA

PLAN & PROFILE
STREET 'A'

DATE 7/10/2024
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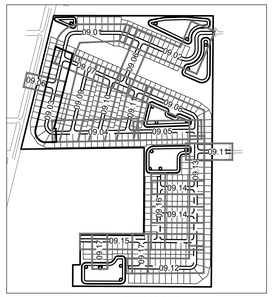

KEY MAP
SCALE: 1" = 700'

WATER LEGEND:

- WAT — WATER MAIN
- FIRE HYDRANT ASSEMBLY (FHA)
- TEE
- BENDS (90°, 45°, 22.5°, 11.25°)
- GATE VALVE & BOX
- BLOW OF ASSEMBLY
- FH # — FIRE HYDRANT NUMBER
- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE
- REDUCER

SANITARY SEWER LEGEND:

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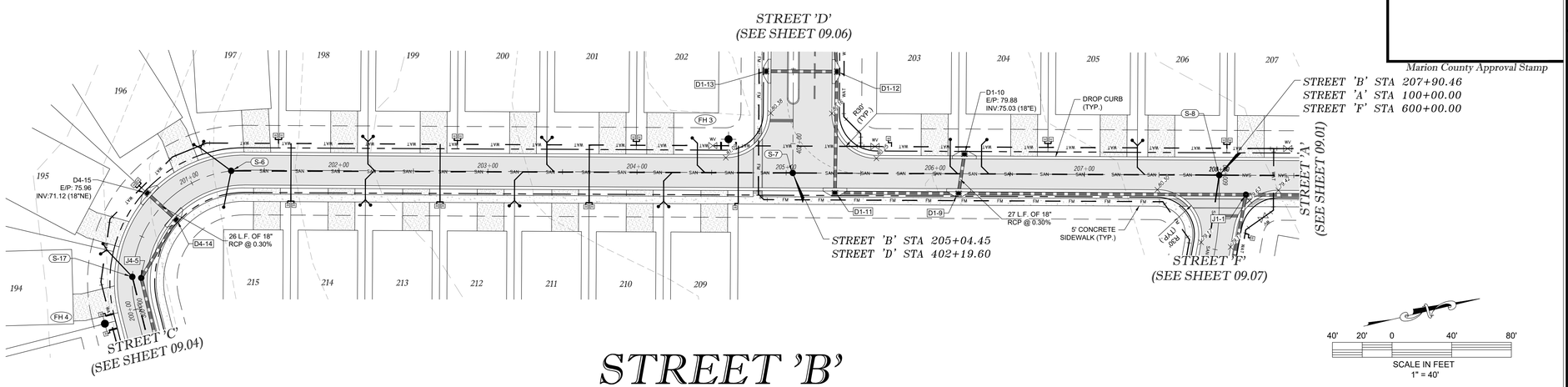
- S-10 — MANHOLE NUMBER
- SINGLE SANITARY SERVICE
- DOUBLE SANITARY SERVICE
- FM — SANITARY FORCE MAIN
- BENDS (90°, 45°, 22.5°)

STORM WATER LEGEND:

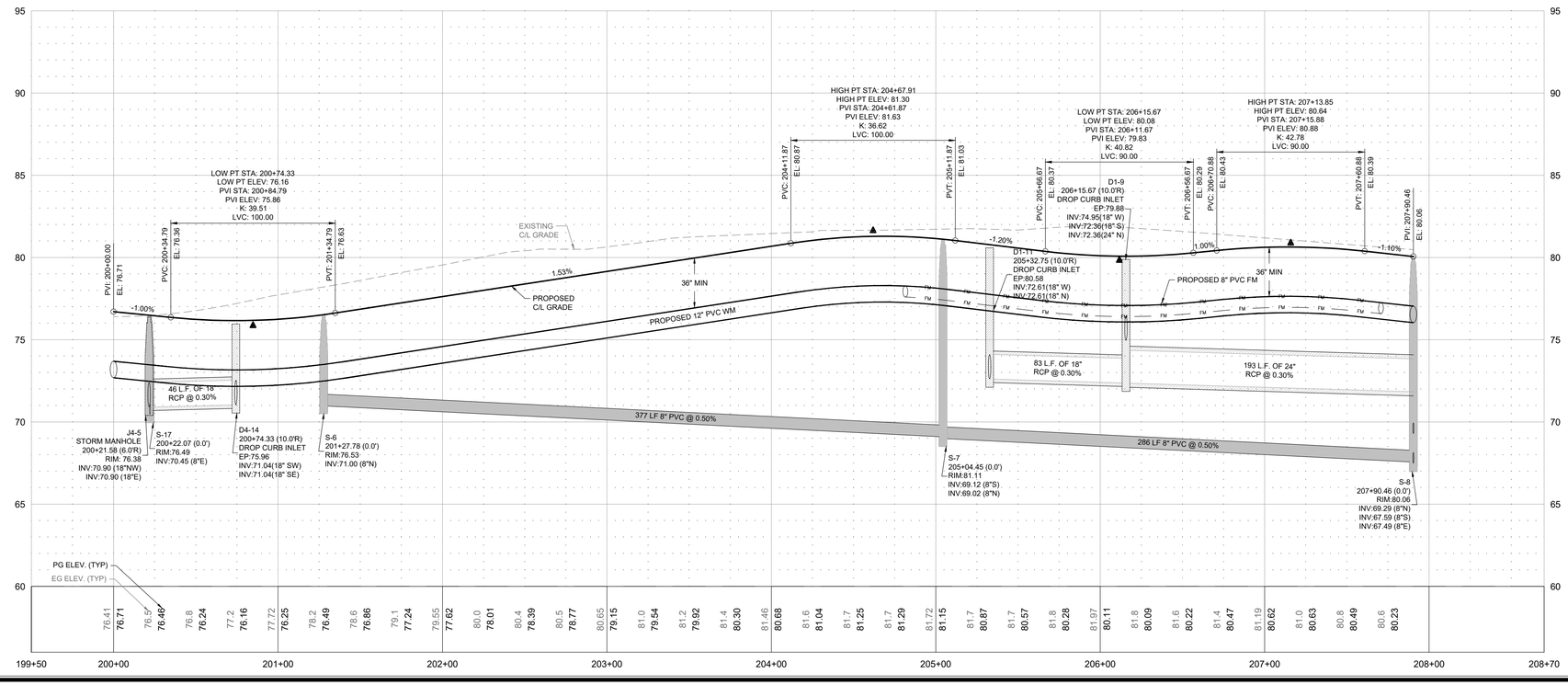
- DROP CURB INLET
- STORM MANHOLE
- STORM PIPE
- D2-14 — STORM STRUCTURE ID



STREET 'B'

40' 20' 0 40' 80'
SCALE IN FEET
1" = 40'

HORZ. SCALE 1" = 40'
VERT. SCALE 1" = 4'



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WOODRIDGE PLACE
MARION COUNTY, FLORIDA

PLAN & PROFILE
STREET 'B'

DATE 7/10/2024
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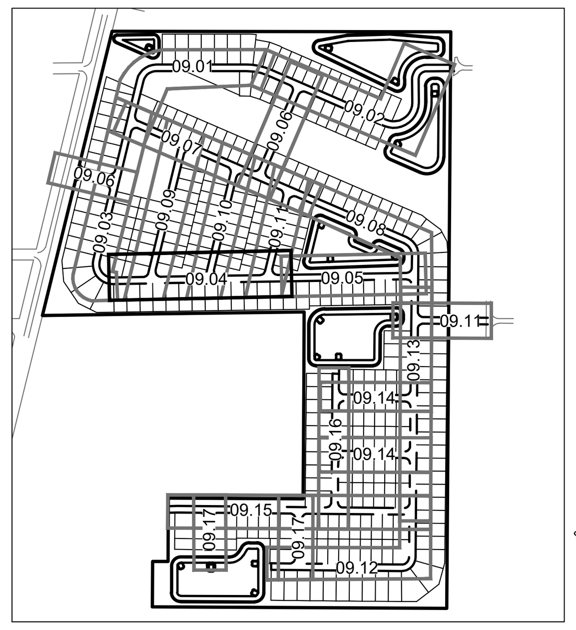


KEY MAP
SCALE: 1" = 700'

WATER LEGEND:

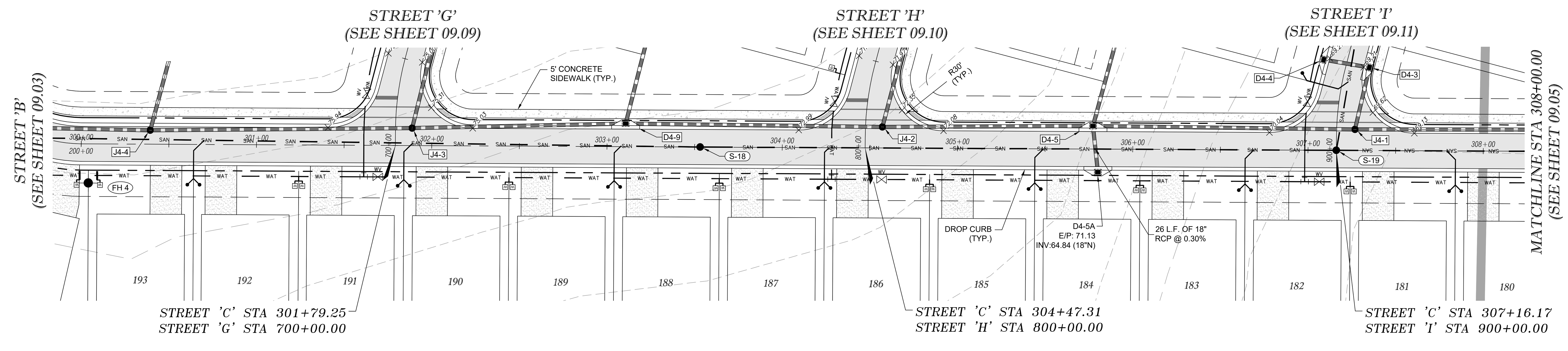
- WATER MAIN
- FIRE HYDRANT ASSEMBLY (FHA)
- TEE
- BENDS
- GATE VALVE & BOX
- BLOW OF ASSEMBLY
- FIRE HYDRANT NUMBER
- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE
- REDUCER

SANITARY SEWER LEGEND:

- SANITARY SEWER
- MANHOLE
- MANHOLE NUMBER
- SINGLE SANITARY SERVICE
- DOUBLE SANITARY SERVICE
- SANITARY FORCE MAIN
- BENDS

STORM WATER LEGEND:

- DROP CURB INLET
- STORM MANHOLE
- STORM PIPE
- STORM STRUCTURE ID



STREET 'C'

SCALE IN FEET
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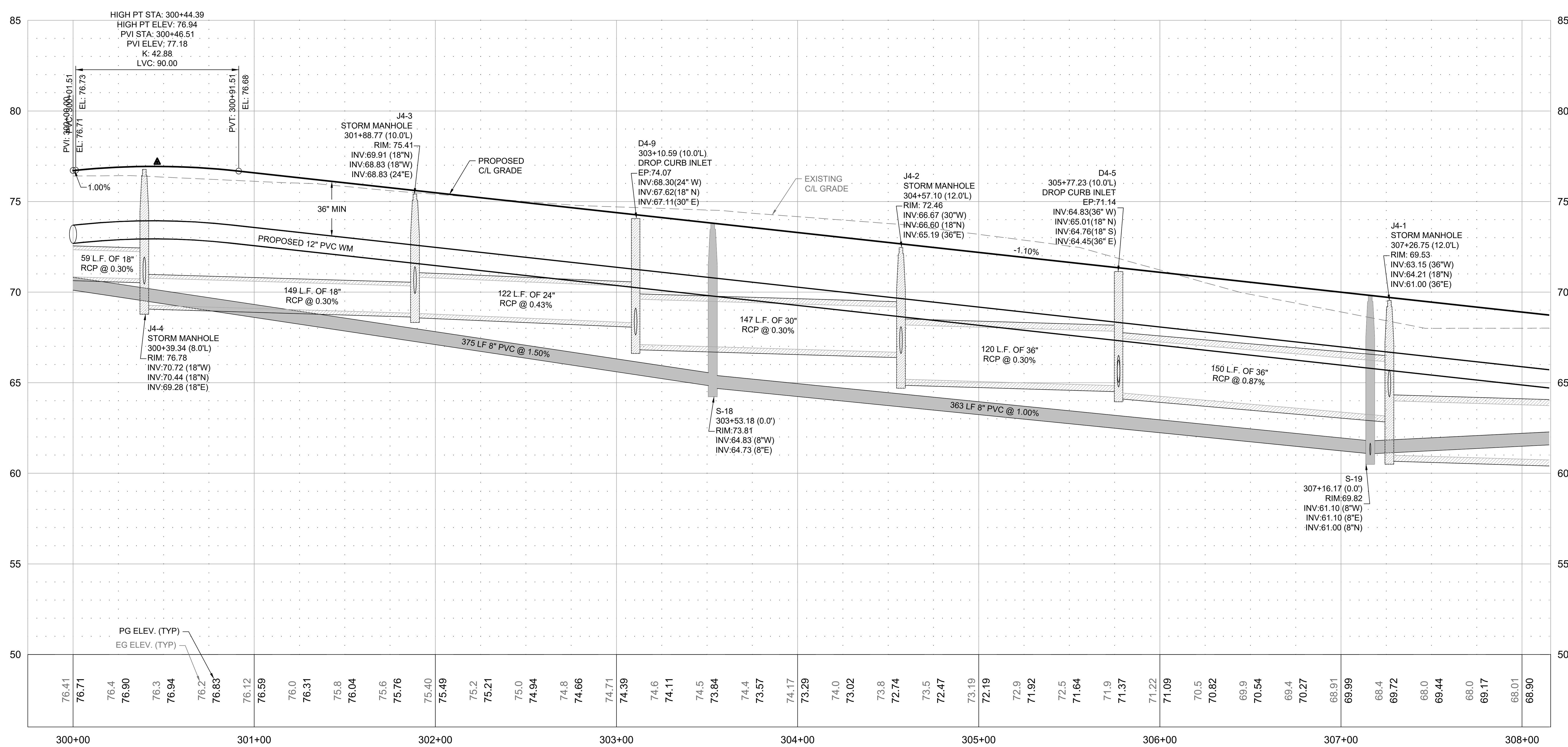

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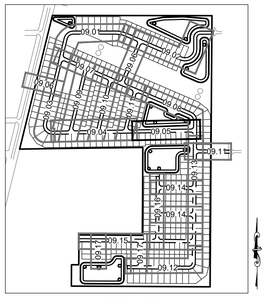


KEY MAP
SCALE: 1" = 700'

WATER LEGEND:

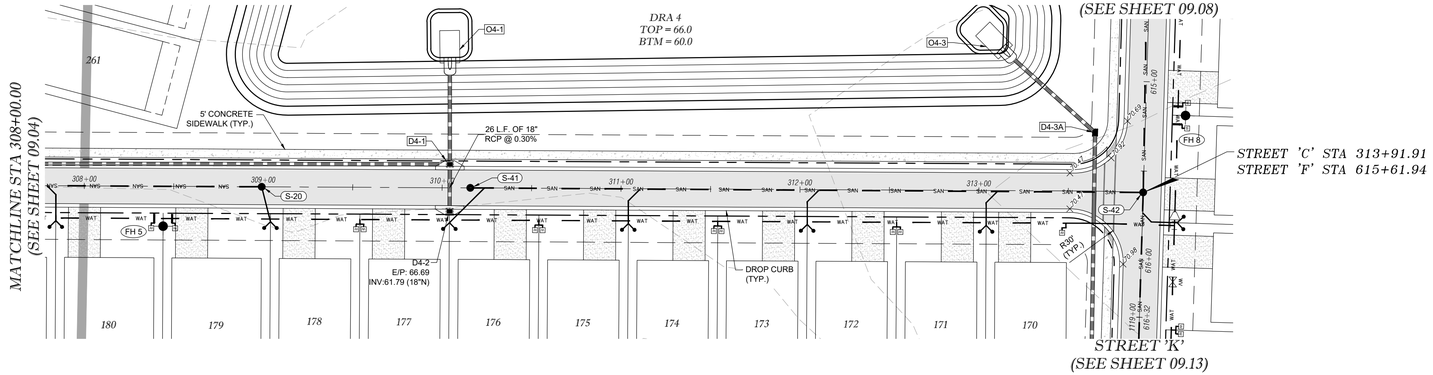
- WAT — WATER MAIN
- WAT — FIRE HYDRANT ASSEMBLY (FHA)
- TEE
- BENDS
- GATE VALVE & BOX
- BLOW OF ASSEMBLY
- FH # — FIRE HYDRANT NUMBER
- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE
- REDUCER

SANITARY SEWER LEGEND:

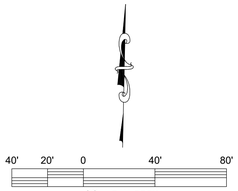
- SAN — SANITARY SEWER
- MANHOLE
- S-10 — MANHOLE NUMBER
- SINGLE SANITARY SERVICE
- DOUBLE SANITARY SERVICE
- FM — SANITARY FORCE MAIN
- BENDS

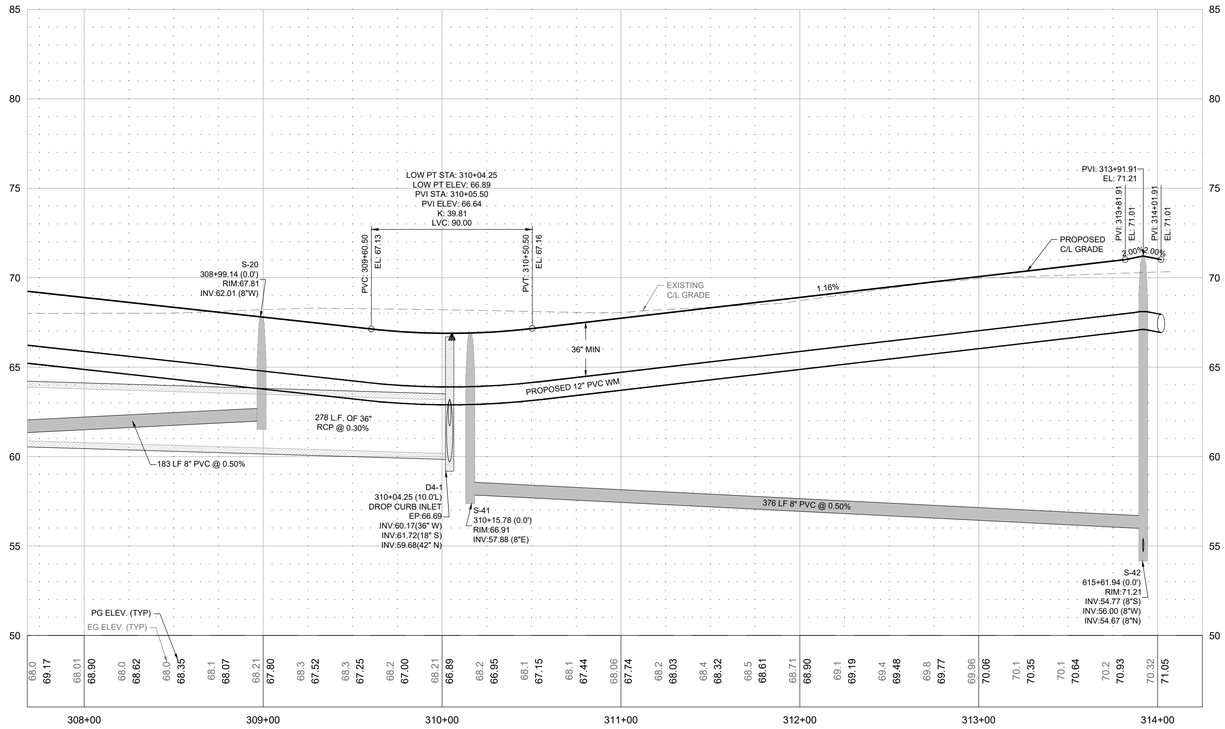
STORM WATER LEGEND:

- DROP CURB INLET
- STORM MANHOLE
- STORM PIPE
- D2-14 — STORM STRUCTURE ID



STREET 'C'





HORZ. SCALE 1" = 40'
VERT. SCALE 1" = 4'

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Office: (352) 387-4540 Fax: (352) 387-4545
CERTIFICATE OF AUTHORIZATION #26756

Marion County Approval Stamp

REVISIONS

DATE

IMPROVEMENT PLAN
WOODRIDGE PLACE
MARION COUNTY, FLORIDA

PLAN & PROFILE STREET 'C'

DATE 7/10/2024
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CHKD. BY JMM
JOB NO. 22-8136

SHT. 09.05

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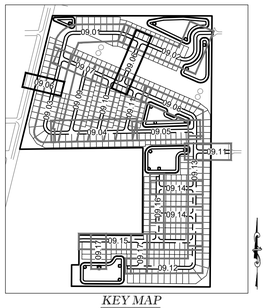


KEY MAP
SCALE: 1" = 700'

WATER LEGEND:

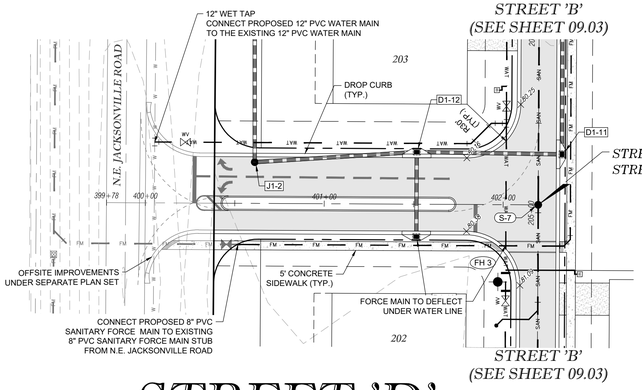
- WAT — WATER MAIN
- WAT — FIRE HYDRANT ASSEMBLY (FHA)
- TEE
- BENDS
- GATE VALVE & BOX
- BLOW OF ASSEMBLY
- FH # — FIRE HYDRANT NUMBER
- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE
- REDUCER

SANITARY SEWER LEGEND:

- SAN — SANITARY SEWER
- MANHOLE
- S-10 — MANHOLE NUMBER
- SINGLE SANITARY SERVICE
- DOUBLE SANITARY SERVICE
- FM — SANITARY FORCE MAIN
- BENDS

STORM WATER LEGEND:

- DROP CURB INLET
- STORM MANHOLE
- STORM PIPE
- D2-14 — STORM STRUCTURE ID



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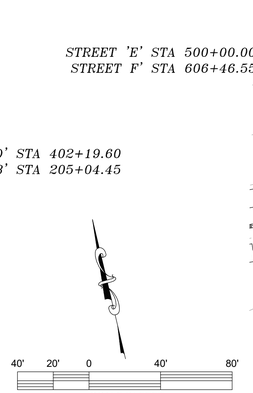

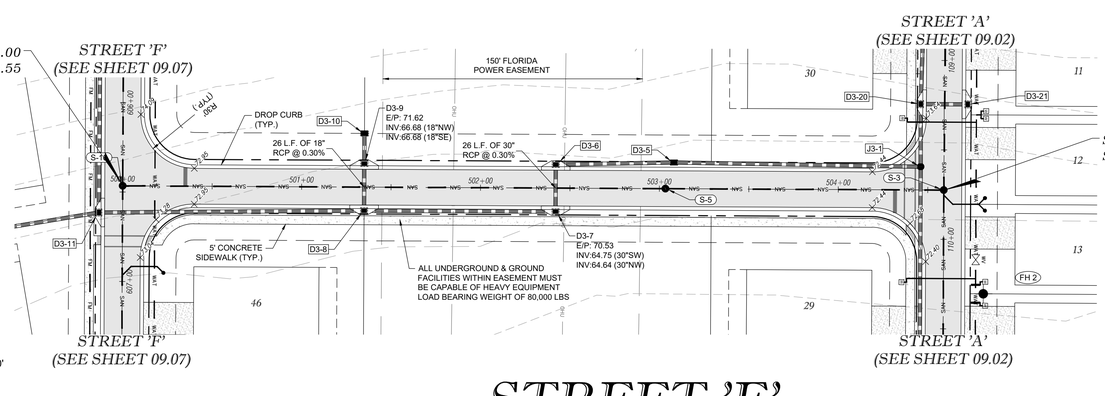

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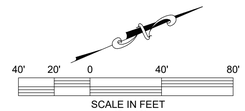

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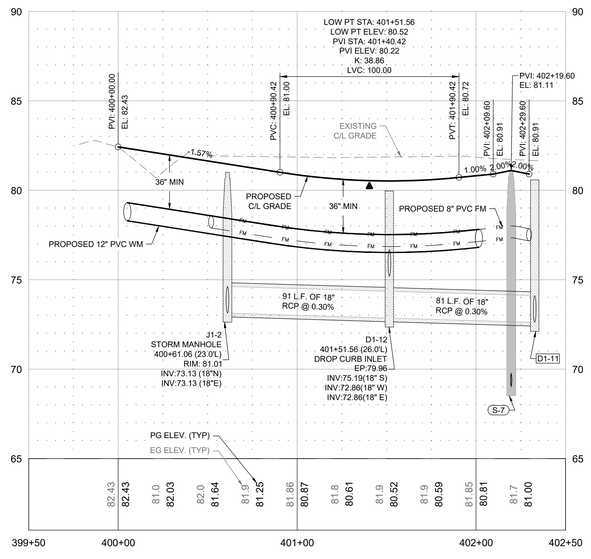
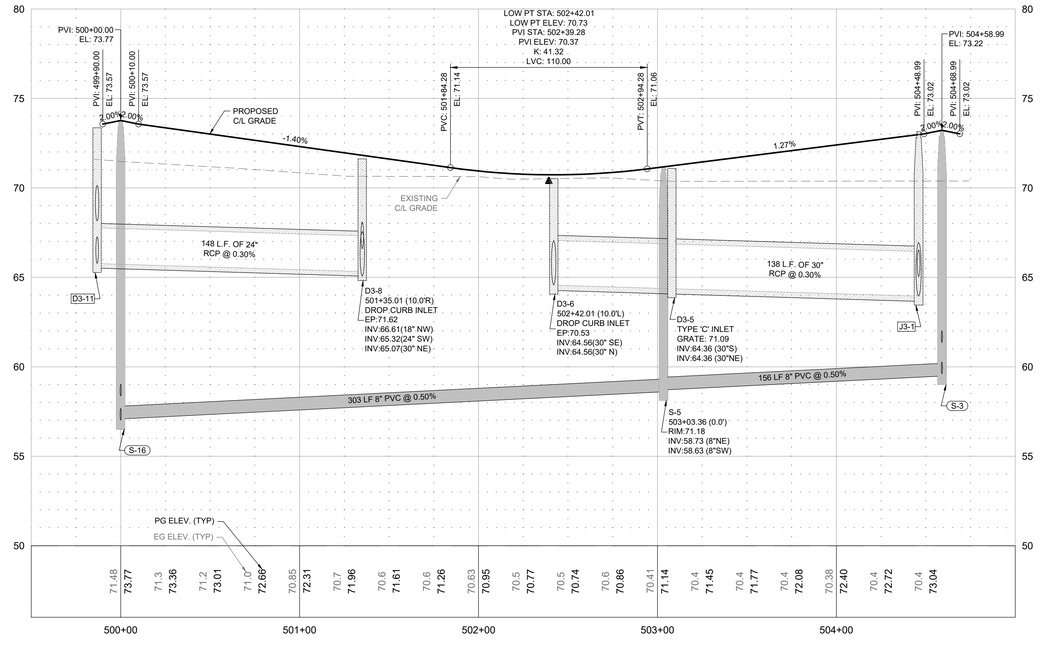
HORZ. SCALE 1" = 40'
VERT. SCALE 1" = 4'





IMPROVEMENT PLAN
WOODRIDGE PLACE
MARION COUNTY, FLORIDA

PLAN & PROFILE STREET 'D&E'

DATE 7/10/2024
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JOB NO. 22-8136

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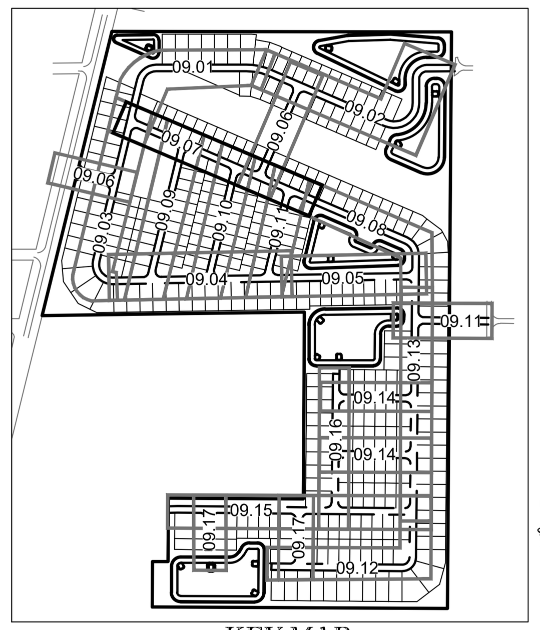


KEY MAP
SCALE: 1" = 700'

WATER LEGEND:

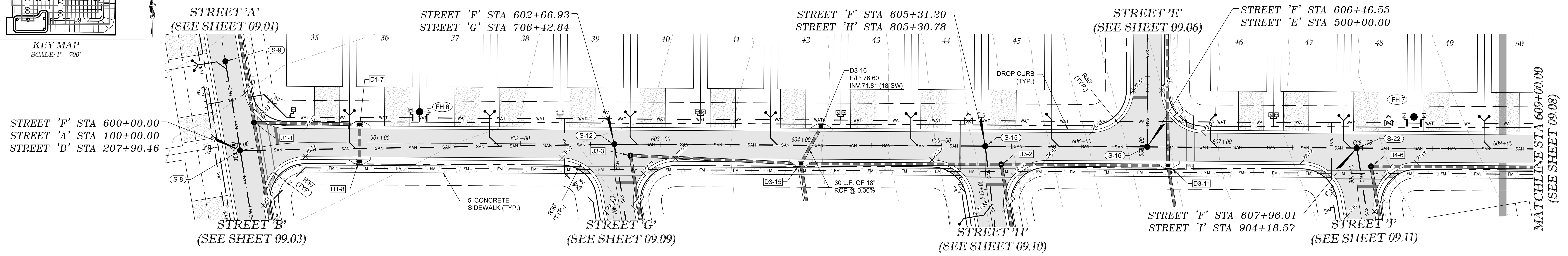
- WAT — WATER MAIN
- FIRE HYDRANT ASSEMBLY (FHA)
- TEE
- BENDS (90° 45° 22.5° 11.25°)
- GATE VALVE & BOX
- BLOW OF ASSEMBLY
- FH # — FIRE HYDRANT NUMBER
- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE
- REDUCER

SANITARY SEWER LEGEND:

- SAN — SANITARY SEWER
- MANHOLE
- S-10 — MANHOLE NUMBER
- SINGLE SANITARY SERVICE
- DOUBLE SANITARY SERVICE
- FM — SANITARY FORCE MAIN
- BENDS (90° 45° 22.5°)

STORM WATER LEGEND:

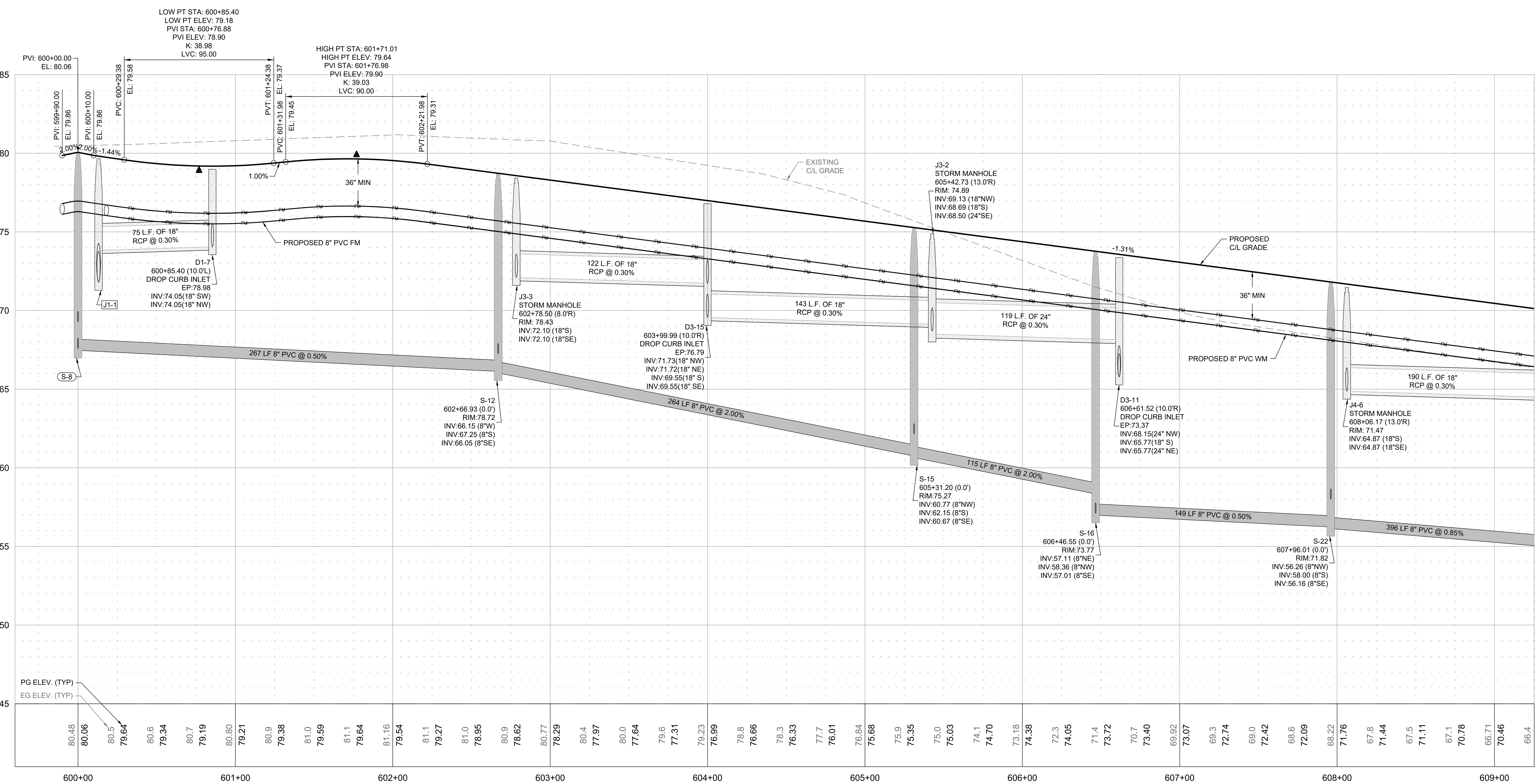
- DROP CURB INLET
- STORM MANHOLE
- STORM PIPE
- D2-14 — STORM STRUCTURE ID



STREET 'F'

Marion County Approval Stamp

HORZ. SCALE 1" = 40'
VERT. SCALE 1" = 4'



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WOODRIDGE PLACE
MARION COUNTY, FLORIDA

PLAN & PROFILE STREET 'F'

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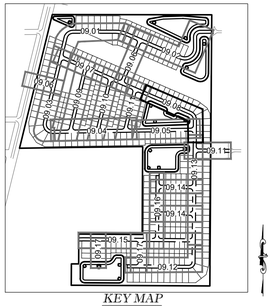

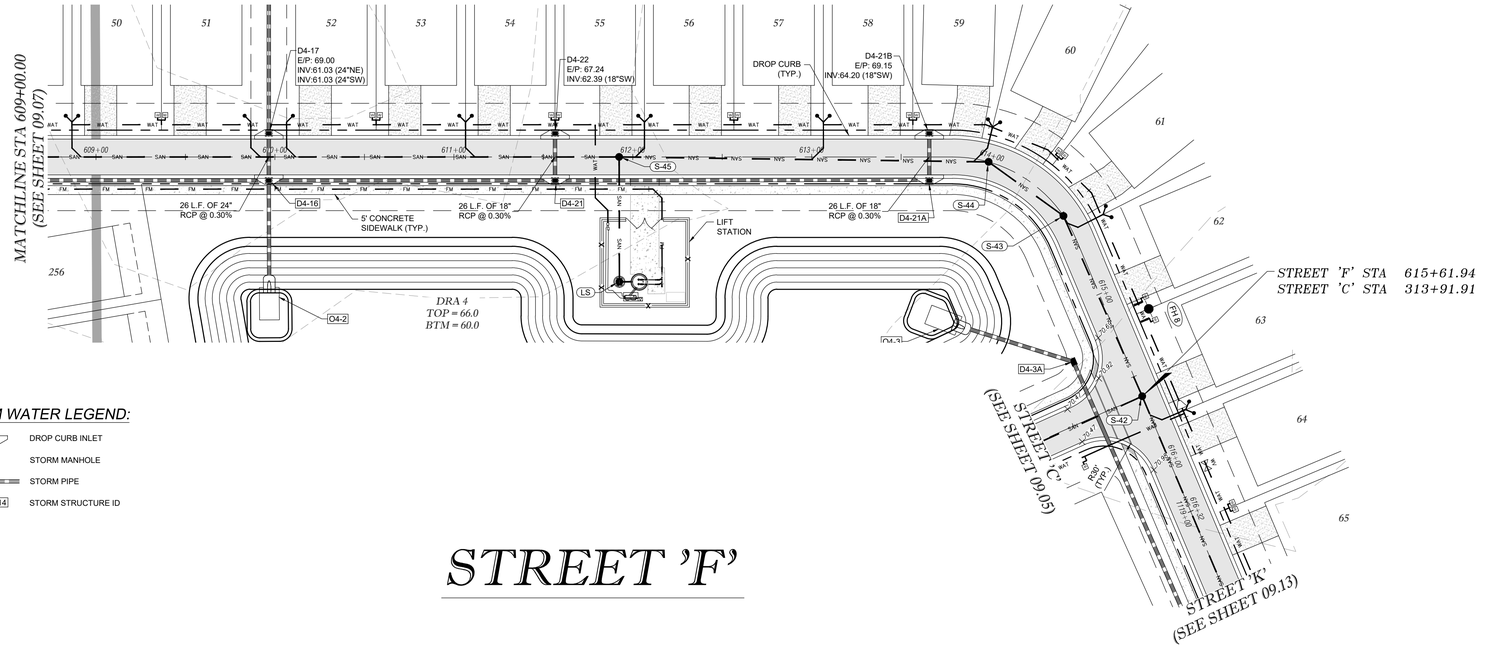

WATER LEGEND:

- WAT — WATER MAIN
- WAT — FIRE HYDRANT ASSEMBLY (FHA)
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- BLOW OF ASSEMBLY
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- REDUCER

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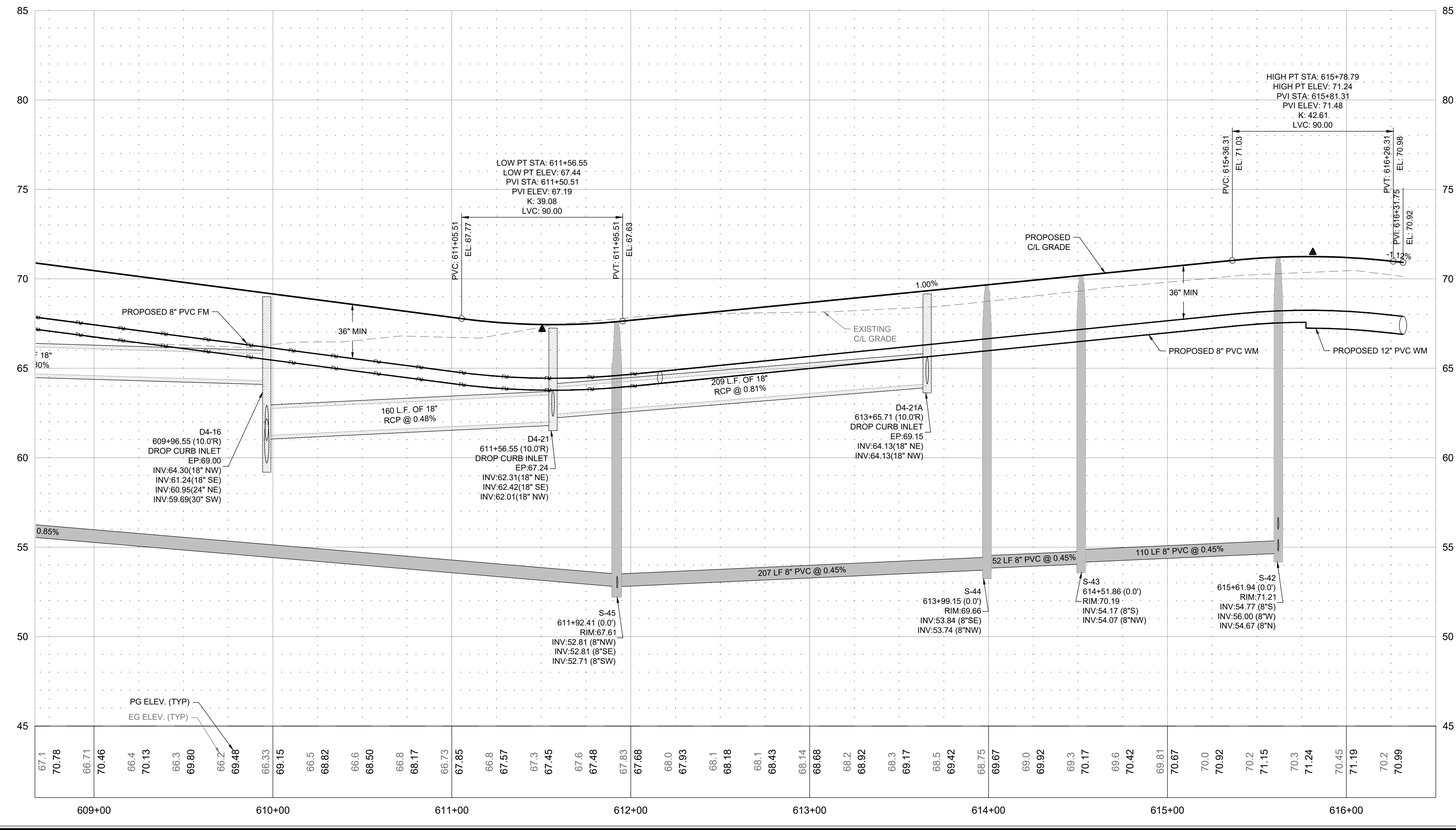
- S-10 — MANHOLE NUMBER
- SINGLE SANITARY SERVICE
- DOUBLE SANITARY SERVICE
- FM — SANITARY FORCE MAIN
- BENDS

STORM WATER LEGEND:

- DROP CURB INLET
- STORM MANHOLE
- STORM PIPE
- D2-14 — STORM STRUCTURE ID

STREET 'F'

HORZ. SCALE 1" = 40'
VERT. SCALE 1" = 4'



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40' 20' 0 40' 80'
SCALE IN FEET
1" = 40'

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IMPROVEMENT PLAN
WOODRIDGE PLACE
MARION COUNTY, FLORIDA

PLAN & PROFILE
STREET 'F'

DATE 7/10/2024
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JOB NO. 22-8136

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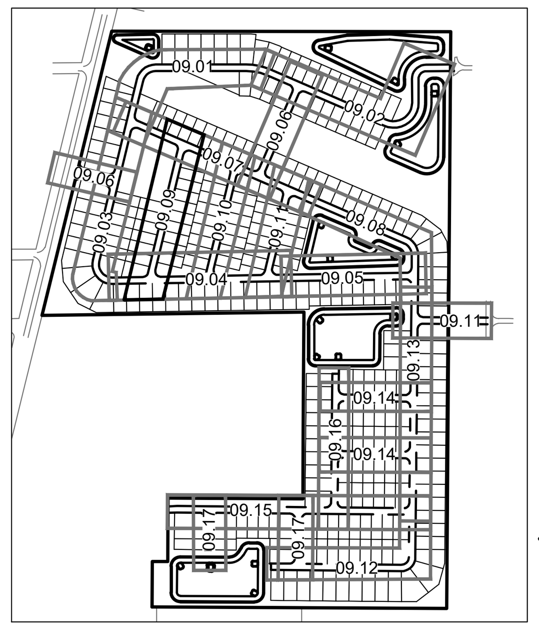

KEY MAP
SCALE: 1" = 700'

WATER LEGEND:

- WAT — WATER MAIN
- WAT — FIRE HYDRANT ASSEMBLY (FHA)
- TEE
- BENDS (90° 45° 22.5° 11.25°)
- WV — GATE VALVE & BOX
- BLOW OF ASSEMBLY
- FH # — FIRE HYDRANT NUMBER
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- DOUBLE WATER SERVICE
- REDUCER

SANITARY SEWER LEGEND:

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- BENDS (90° 45° 22.5°)

STORM WATER LEGEND:

- DROP CURB INLET
- STORM MANHOLE
- STORM PIPE
- D2-14 — STORM STRUCTURE ID

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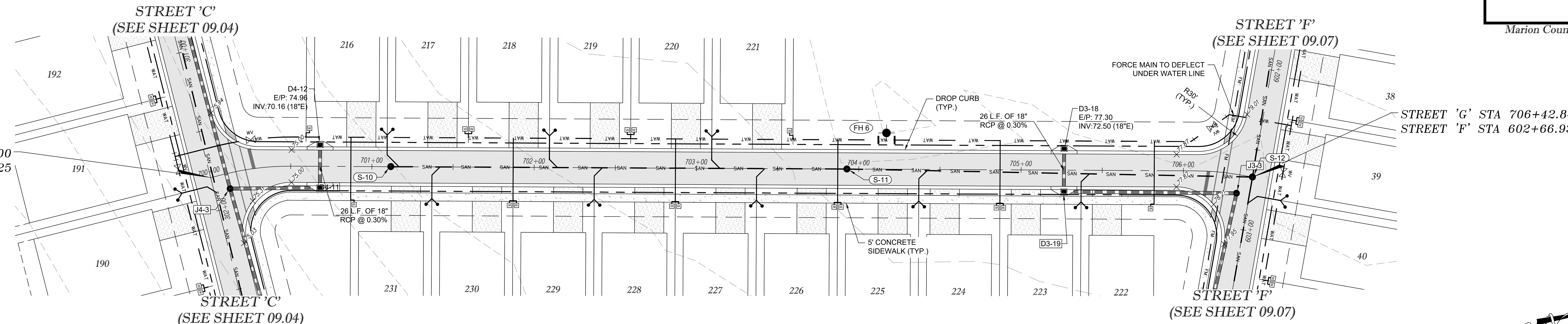
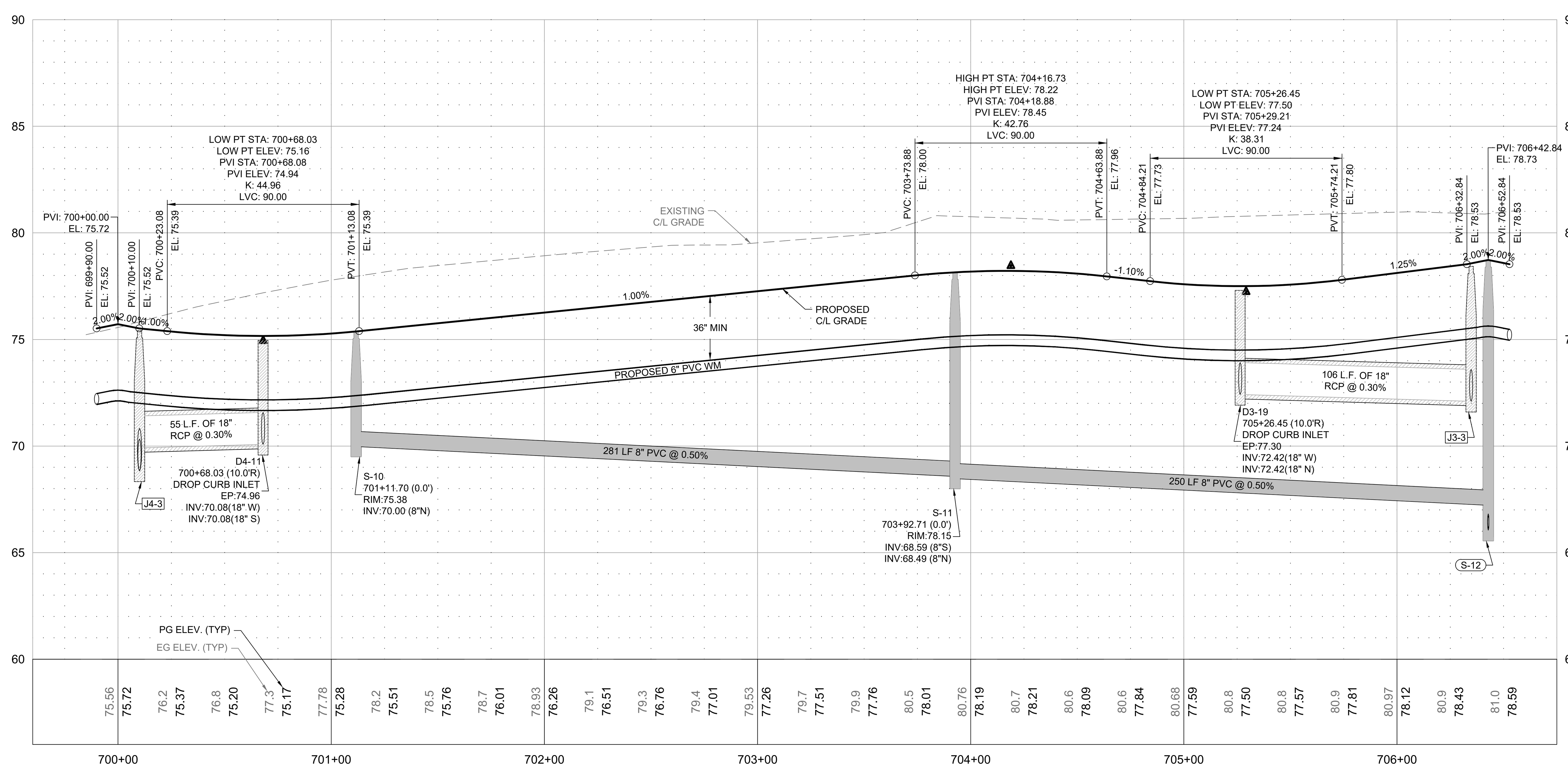


40' 20' 0 40' 80'
SCALE IN FEET
1" = 40'

STREET 'G'

HORZ. SCALE 1" = 40'
VERT. SCALE 1" = 4'



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IMPROVEMENT PLAN
WOODRIDGE PLACE
MARION COUNTY, FLORIDA

PLAN & PROFILE STREET 'G'

DATE 7/10/2024
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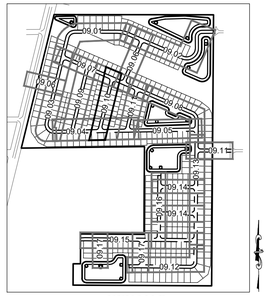

KEY MAP
SCALE: 1" = 700'

WATER LEGEND:

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- WAT — FIRE HYDRANT ASSEMBLY (FHA)
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- BENDS
- GATE VALVE & BOX
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- SINGLE WATER SERVICE
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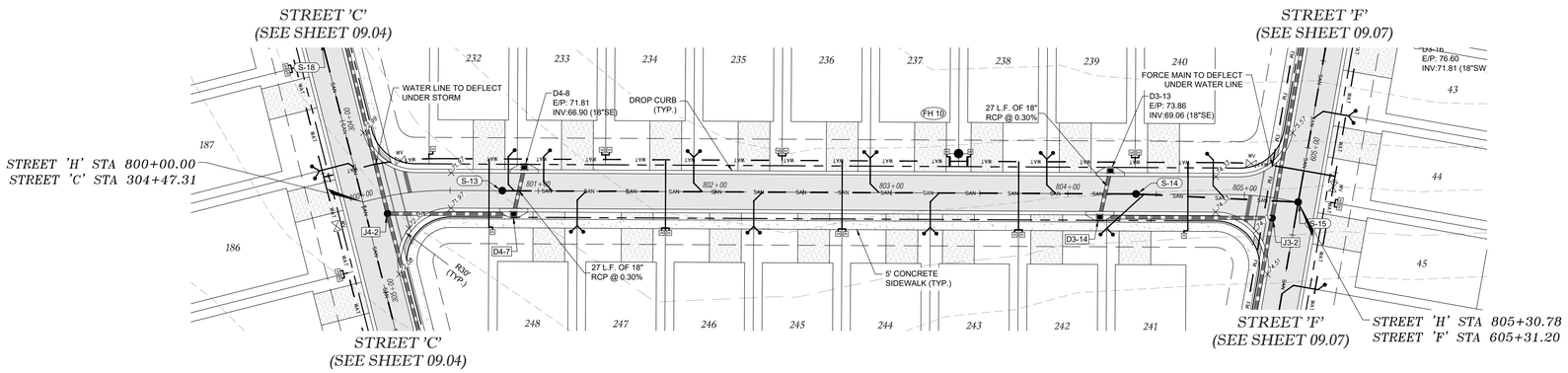
SANITARY SEWER LEGEND:

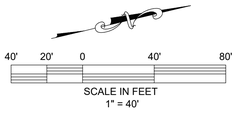
- SAN — SANITARY SEWER
- MANHOLE
- S-10 — MANHOLE NUMBER
- SINGLE SANITARY SERVICE
- DOUBLE SANITARY SERVICE
- FM — SANITARY FORCE MAIN
- BENDS

STORM WATER LEGEND:

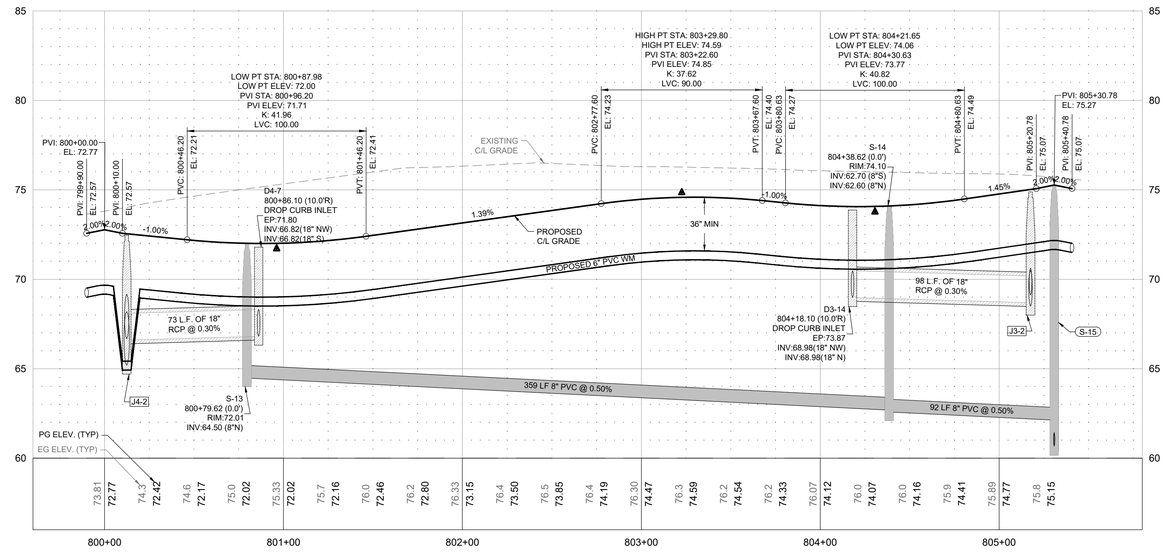
- DROP CURB INLET
- STORM MANHOLE
- STORM PIPE
- D2-14 — STORM STRUCTURE ID



STREET 'H'



HORZ. SCALE 1" = 40'
VERT. SCALE 1" = 4'



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IMPROVEMENT PLAN
WOODRIDGE PLACE
MARION COUNTY, FLORIDA

PLAN & PROFILE
STREET 'H'

DATE 7/10/2024
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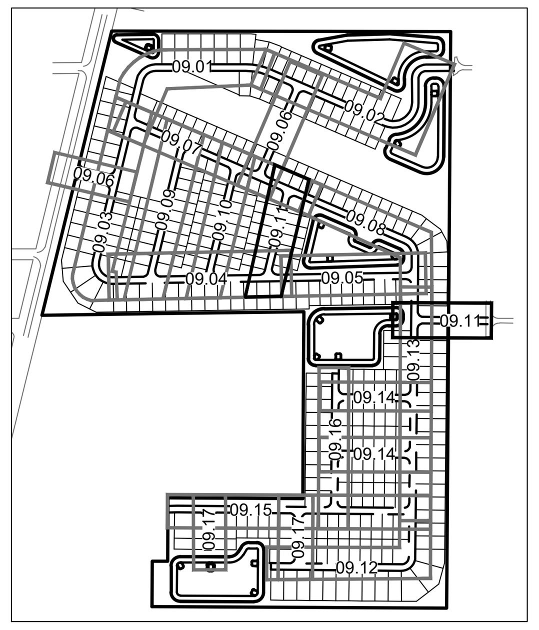

KEY MAP
SCALE: 1" = 700'

WATER LEGEND:

- WATER MAIN
- FIRE HYDRANT ASSEMBLY (FHA)
- TEE
- BENDS (90° 45° 22.5° 11.25°)
- GATE VALVE & BOX
- BLOW OF ASSEMBLY
- FIRE HYDRANT NUMBER
- SINGLE WATER SERVICE
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- REDUCER

SANITARY SEWER LEGEND:

- SANITARY SEWER
- MANHOLE
- S-10 MANHOLE NUMBER
- SINGLE SANITARY SERVICE
- DOUBLE SANITARY SERVICE
- SANITARY FORCE MAIN
- BENDS (90° 45° 22.5°)

STORM WATER LEGEND:

- DROP CURB INLET
- STORM MANHOLE
- STORM PIPE
- D2-14 STORM STRUCTURE ID

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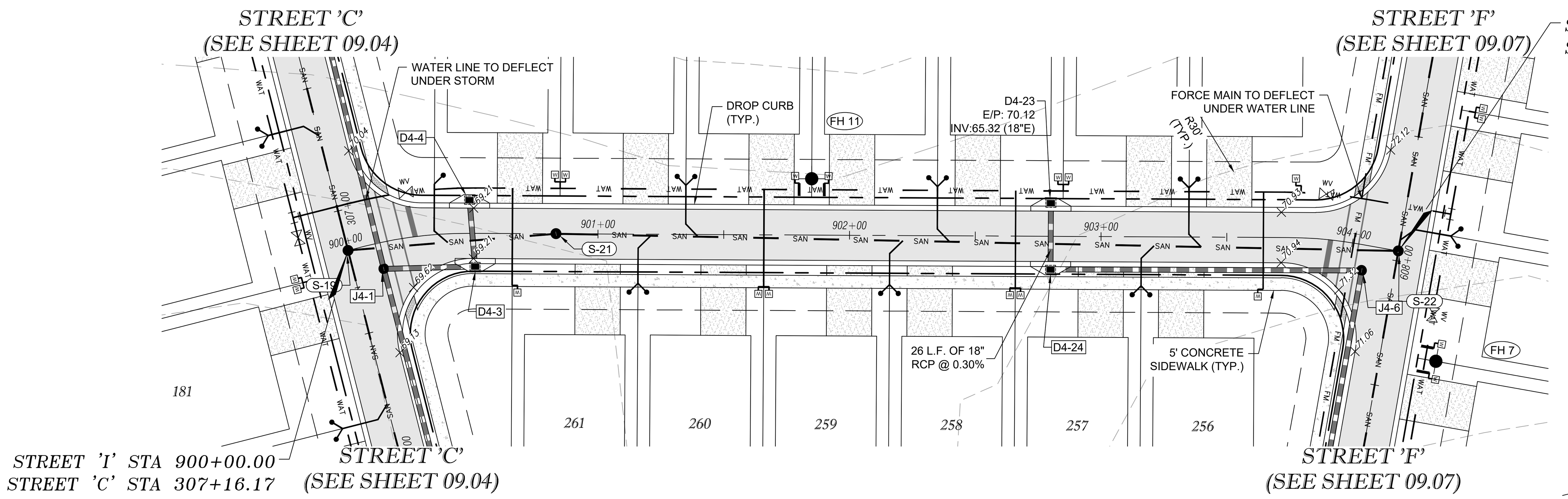
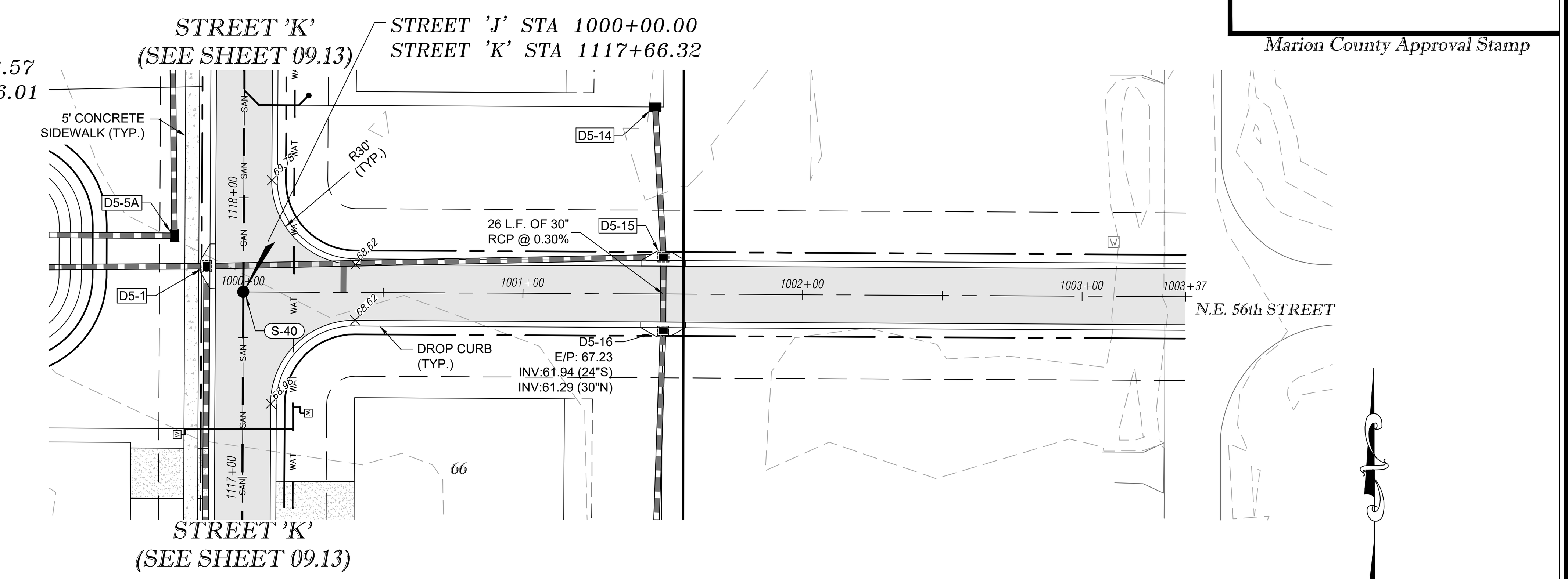
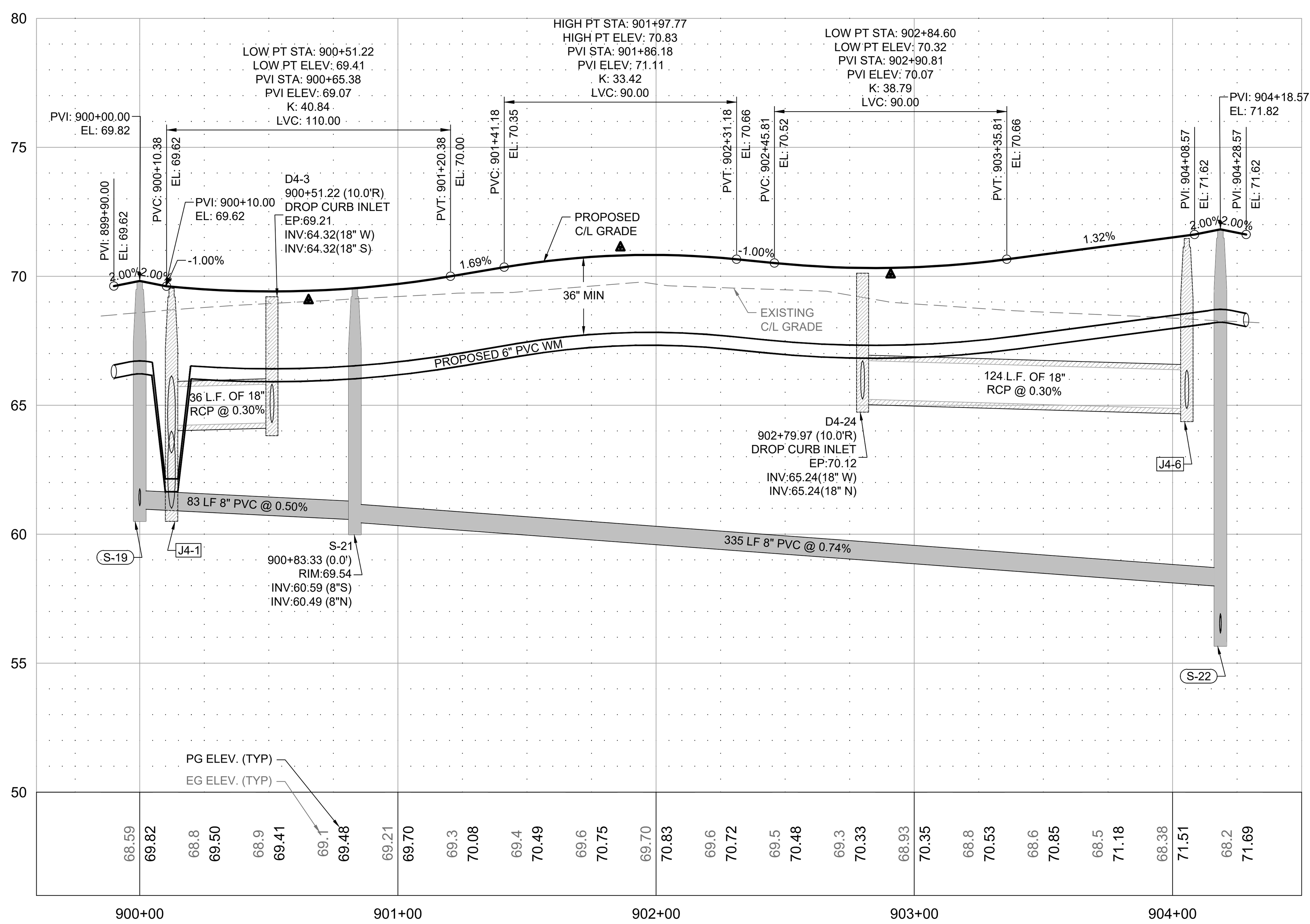


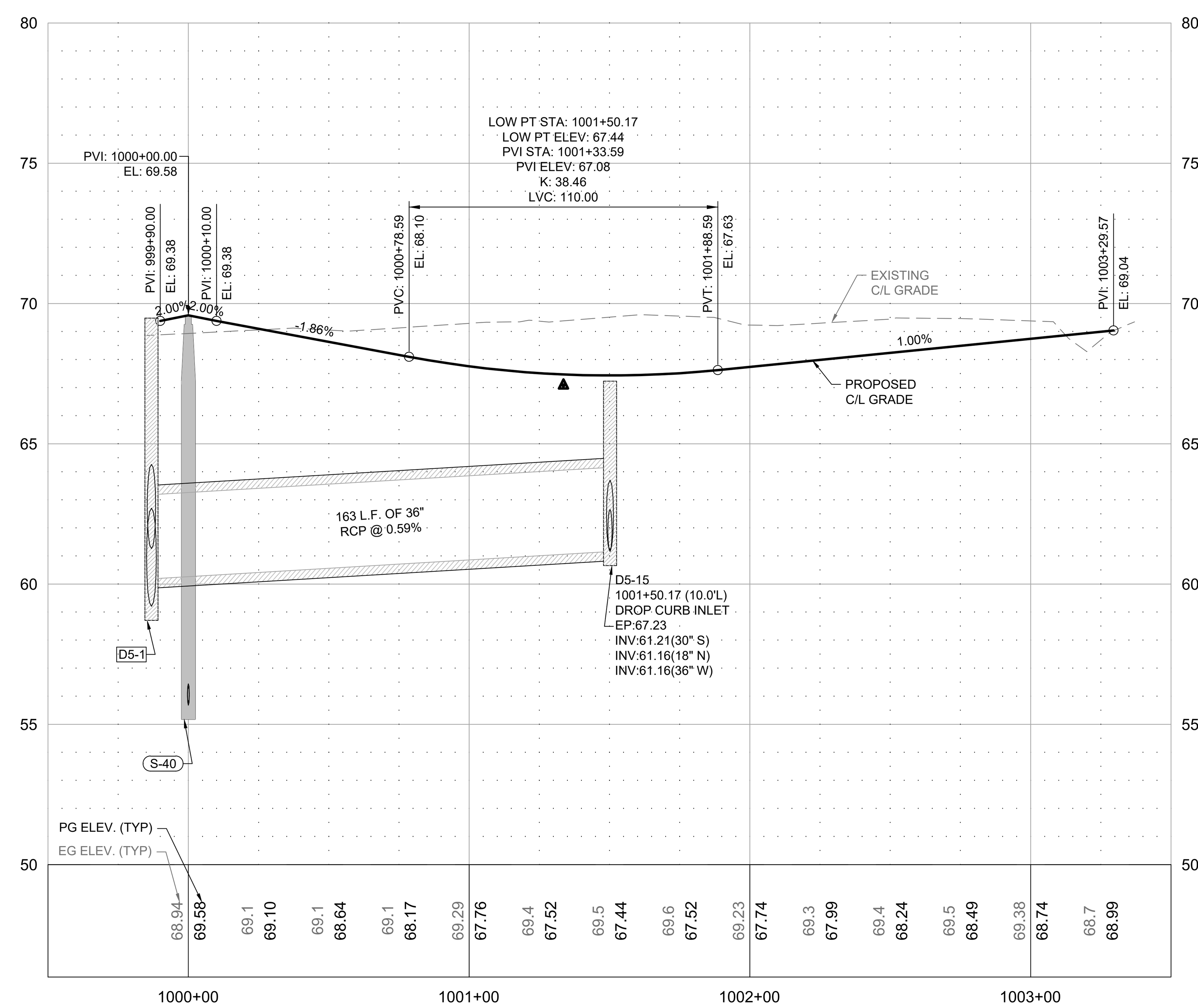
STREET 'I'



STREET 'J'

HORZ. SCALE 1" = 40'
VERT. SCALE 1" = 4'





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IMPROVEMENT PLAN
WOODRIDGE PLACE
MARION COUNTY, FLORIDA

PLAN & PROFILE STREET 'I&J'

DATE 7/10/2024
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JOB NO. 22-8136

SHT. 09.11

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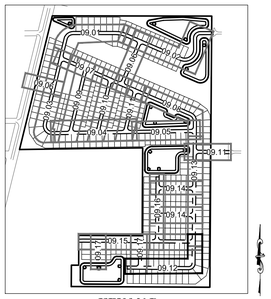

KEY MAP
SCALE: 1" = 700'

WATER LEGEND:

- WAT — WATER MAIN
- WAT — FIRE HYDRANT ASSEMBLY (FHA)
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SANITARY SEWER LEGEND:

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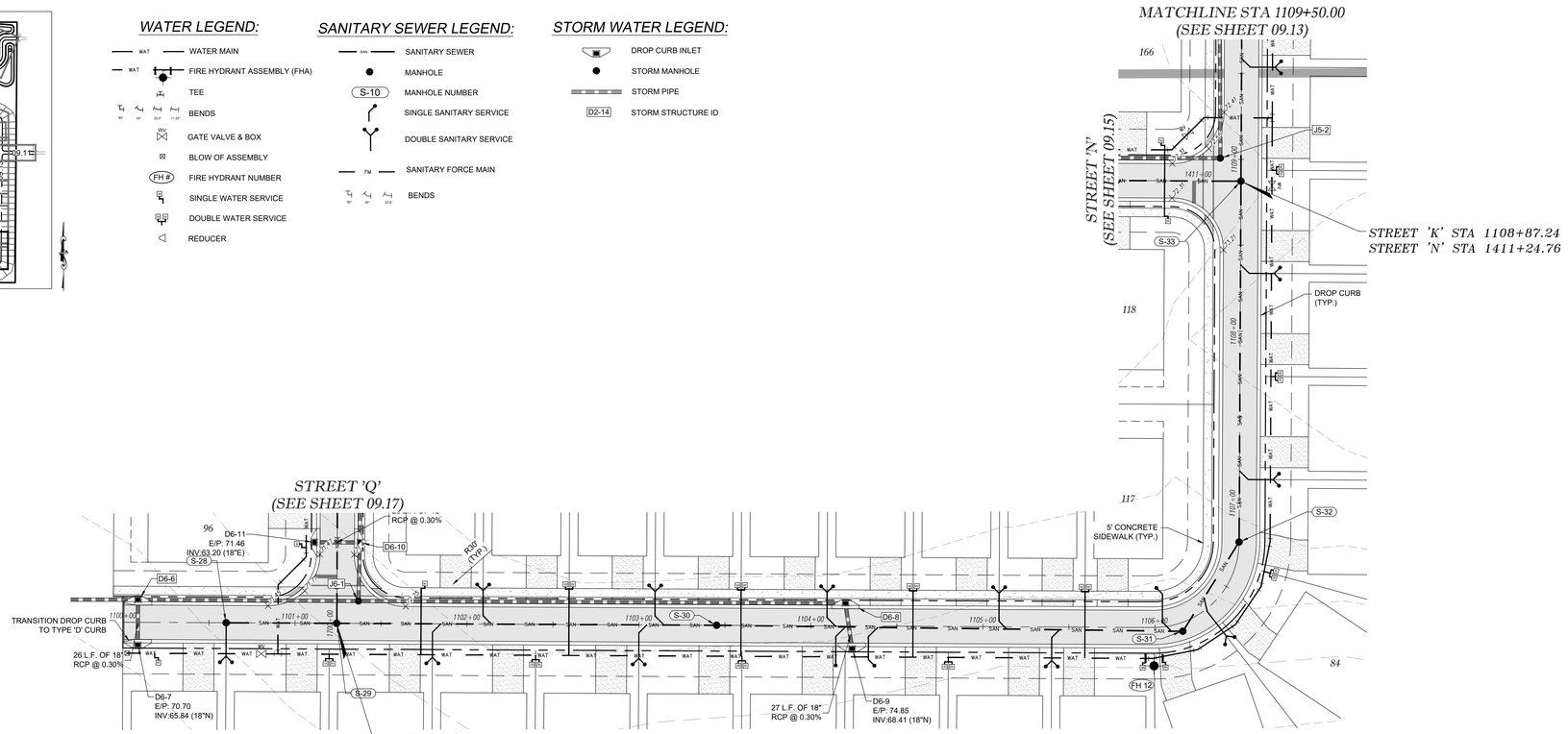
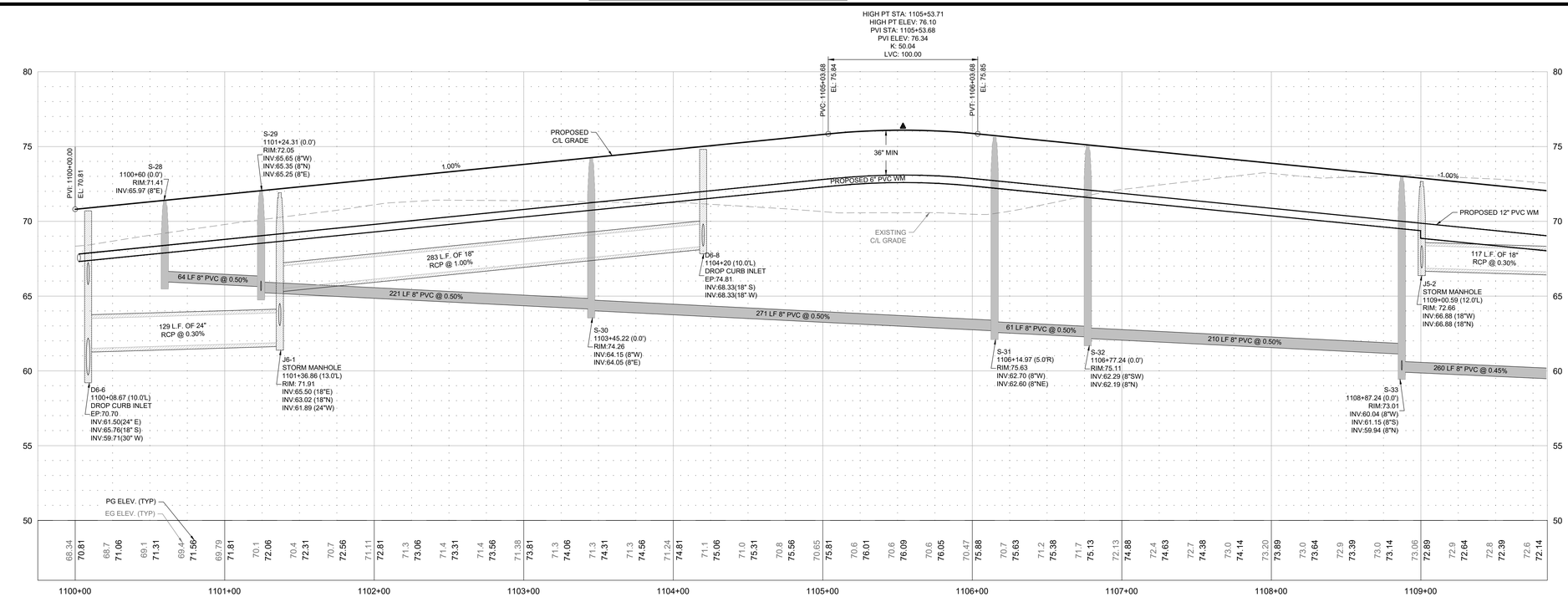
STORM WATER LEGEND:

- DROP CURB INLET
- STORM MANHOLE
- STORM PIPE
- D2-14 — STORM STRUCTURE ID



STREET 'K'



HORZ. SCALE 1" = 40'
VERT. SCALE 1" = 4'

Marion County Approval Stamp

40' 20' 0 40' 80'
SCALE IN FEET
1" = 40'

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1720 SE 16th Ave. Bldg 100, Ocala, FL 34471
Office: (352) 387-4540 Fax: (352) 387-4545
CERTIFICATE OF AUTHORIZATION #26756

REVISIONS
DATE

IMPROVEMENT PLAN
WOODRIDGE PLACE
MARION COUNTY, FLORIDA

PLAN & PROFILE
STREET 'K'

DATE 7/10/2024
DRAWN BY AS
CHKD. BY JMM
JOB NO. 22-8136

SHT. 09.12

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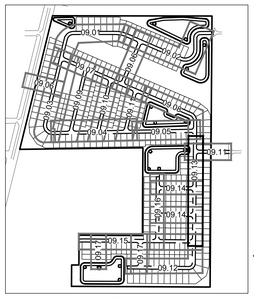
S:\Marion County\Harvey Vandeven_Summerbrooke Estates nka Woodland Place, NKA Woodridge Place\CIVIL\CONSTRUCTION\09-Plan & Profile.dwg, 7/10/2024 1:52:46 PM



KEY MAP
SCALE: 1" = 700'

WATER LEGEND:

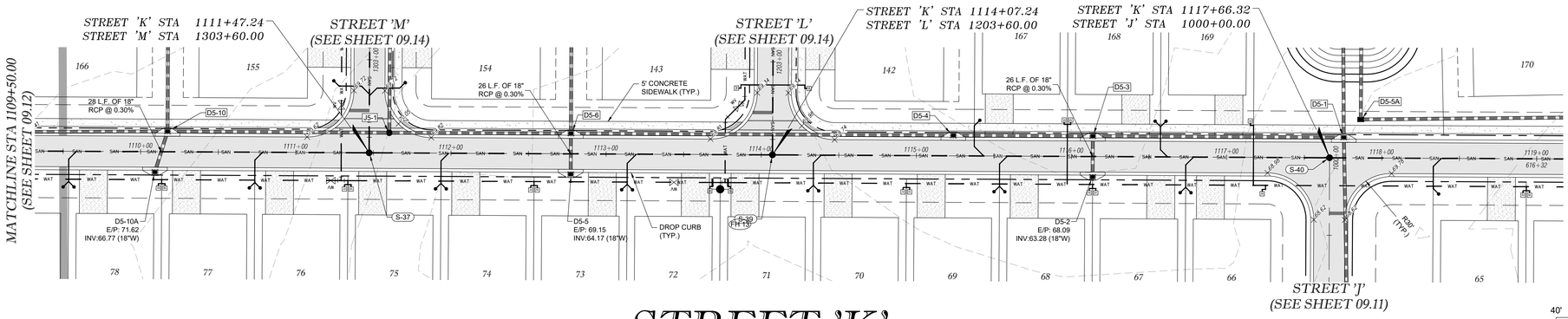
- WAT — WATER MAIN
- WAT — FIRE HYDRANT ASSEMBLY (FHA)
- TEE
- BENDS
- GATE VALVE & BOX
- BLOW OF ASSEMBLY
- FH # — FIRE HYDRANT NUMBER
- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE
- REDUCER

SANITARY SEWER LEGEND:

- SAN — SANITARY SEWER
- MANHOLE
- S-10 — MANHOLE NUMBER
- SINGLE SANITARY SERVICE
- DOUBLE SANITARY SERVICE
- FM — SANITARY FORCE MAIN
- BENDS

STORM WATER LEGEND:

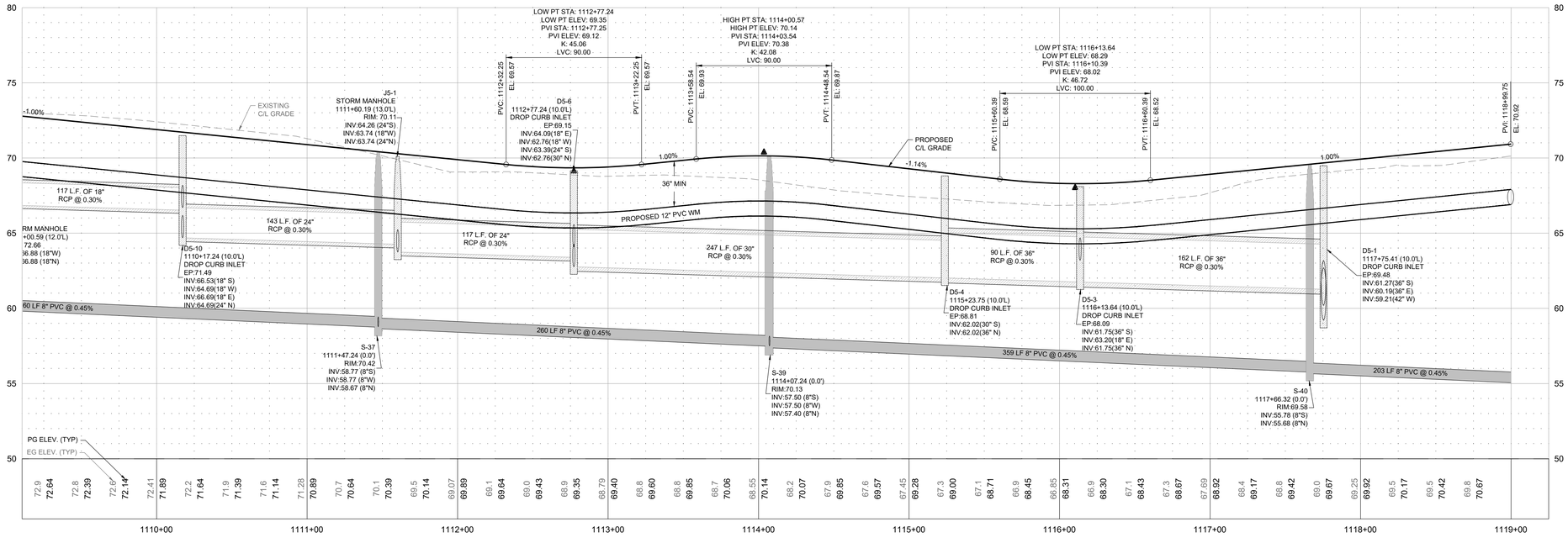
- DROP CURB INLET
- STORM MANHOLE
- STORM PIPE
- D2-14 — STORM STRUCTURE ID



STREET 'K'

40' 20' 0 40' 80'
SCALE IN FEET
1" = 40'

HORZ. SCALE 1" = 40'
VERT. SCALE 1" = 4'



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Office: (352) 387-4540 Fax: (352) 387-4545
CERTIFICATE OF AUTHORIZATION #26756

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IMPROVEMENT PLAN
WOODRIDGE PLACE
MARION COUNTY, FLORIDA

PLAN & PROFILE
STREET 'K'

DATE 7/10/2024
DRAWN BY AS
CHKD. BY JMM
JOB NO. 22-8136

SHT. 09.13

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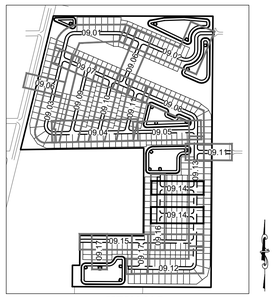

KEY MAP
SCALE: 1" = 700'

WATER LEGEND:

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- BLOW OF ASSEMBLY
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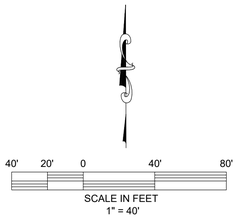
STORM WATER LEGEND:

- DROP CURB INLET
- STORM MANHOLE
- STORM PIPE
- D2-14 — STORM STRUCTURE ID



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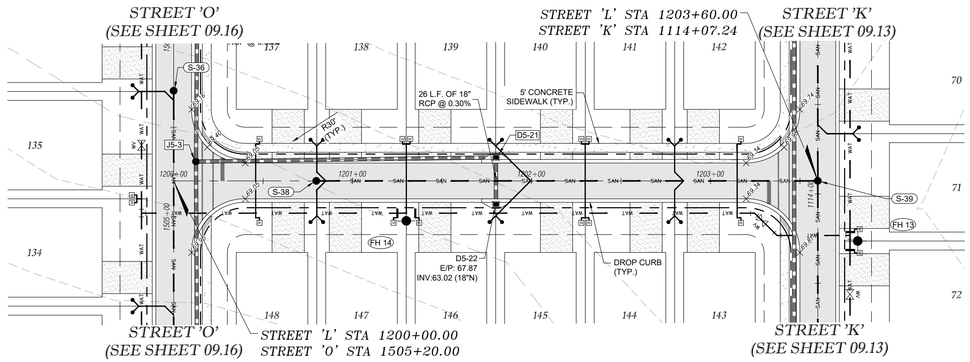

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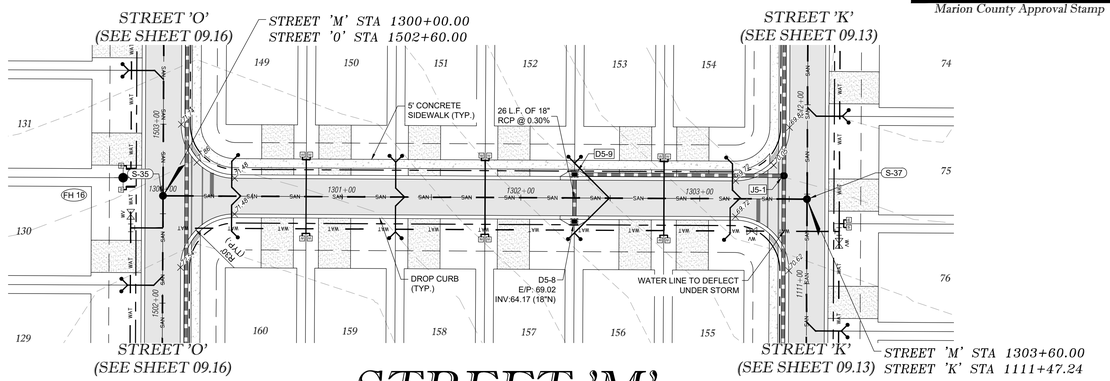

STREET 'M'

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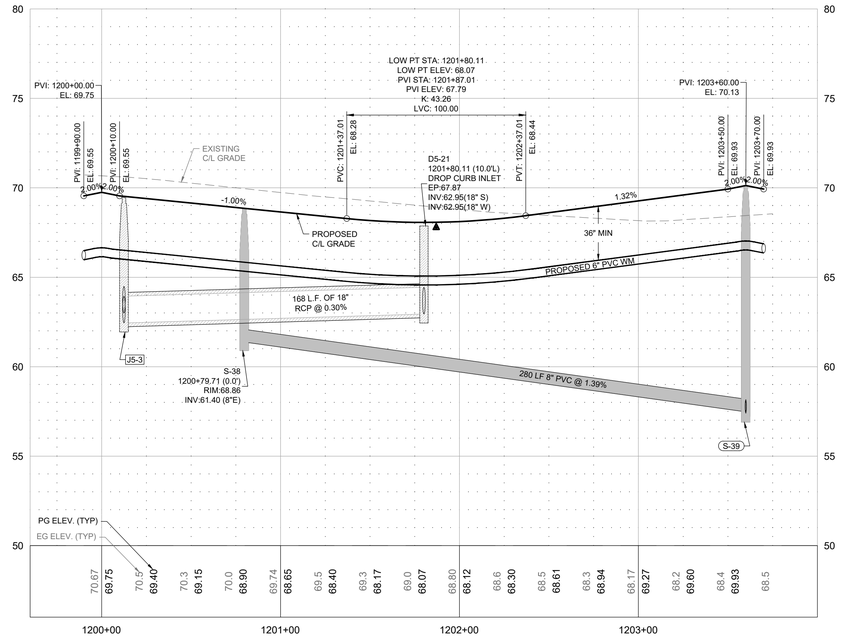
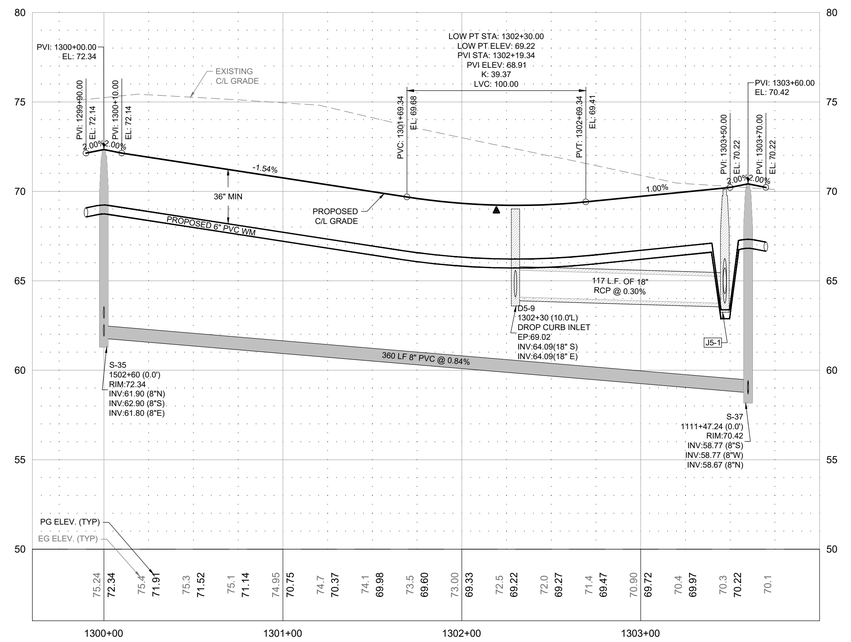
VERT. SCALE 1" = 4'





IMPROVEMENT PLAN
WOODRIDGE PLACE
MARION COUNTY, FLORIDA

PLAN & PROFILE
STREET 'L & M'

DATE 7/10/2024
DRAWN BY AS
CHKD. BY JMM
JOB NO. 22-8136

SHT. 09.14

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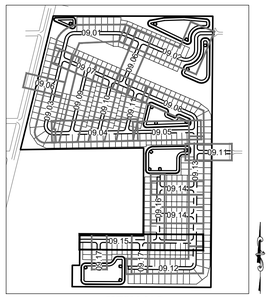

KEY MAP
SCALE: 1" = 700'

WATER LEGEND:

- WAT — WATER MAIN
- WAT — FIRE HYDRANT ASSEMBLY (FHA)
- TEE
- BENDS (11.25°, 22.5°, 45°, 90°)
- GATE VALVE & BOX
- BLOW OF ASSEMBLY
- FH # — FIRE HYDRANT NUMBER
- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE
- REDUCER

SANITARY SEWER LEGEND:

- SAN — SANITARY SEWER
- MANHOLE
- S-10 — MANHOLE NUMBER
- SINGLE SANITARY SERVICE
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- FM — SANITARY FORCE MAIN
- BENDS (11.25°, 22.5°, 45°, 90°)

STORM WATER LEGEND:

- DROP CURB INLET
- STORM MANHOLE
- STORM PIPE
- D2-14 — STORM STRUCTURE ID

40' 20' 0 40' 80'
SCALE IN FEET
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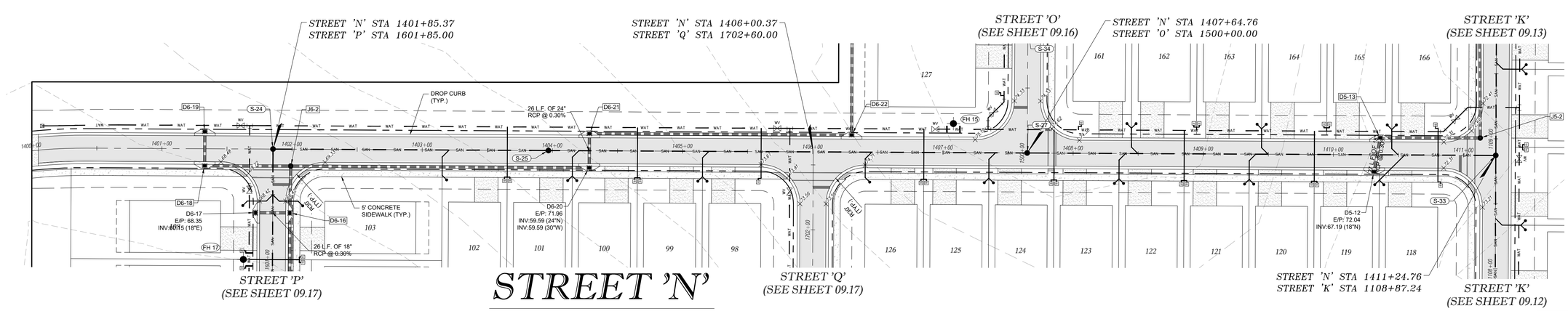

HORZ. SCALE 1" = 40'
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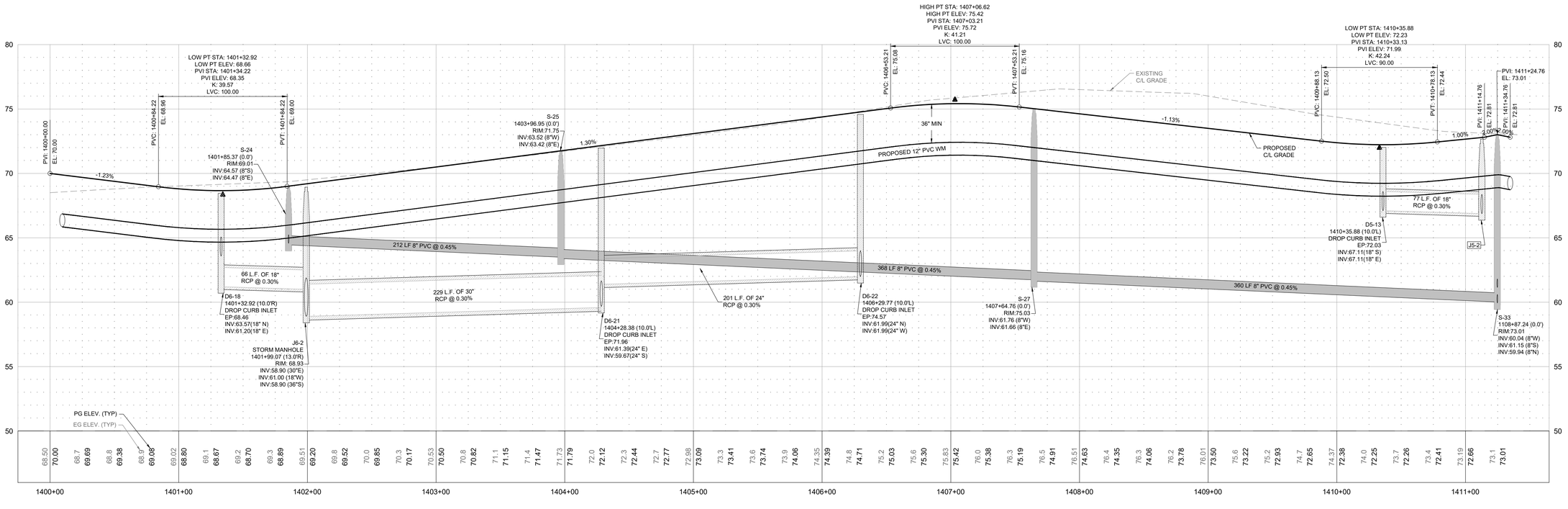

IMPROVEMENT PLAN
WOODRIDGE PLACE
MARION COUNTY, FLORIDA

PLAN & PROFILE
STREET 'N'

DATE 7/10/2024
DRAWN BY AS
CHKD. BY JMM
JOB NO. 22-8136

SHT. 09.15

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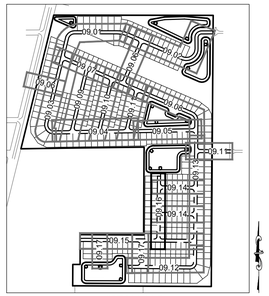

KEY MAP
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STORM WATER LEGEND:

- DROP CURB INLET
- STORM MANHOLE
- STORM PIPE
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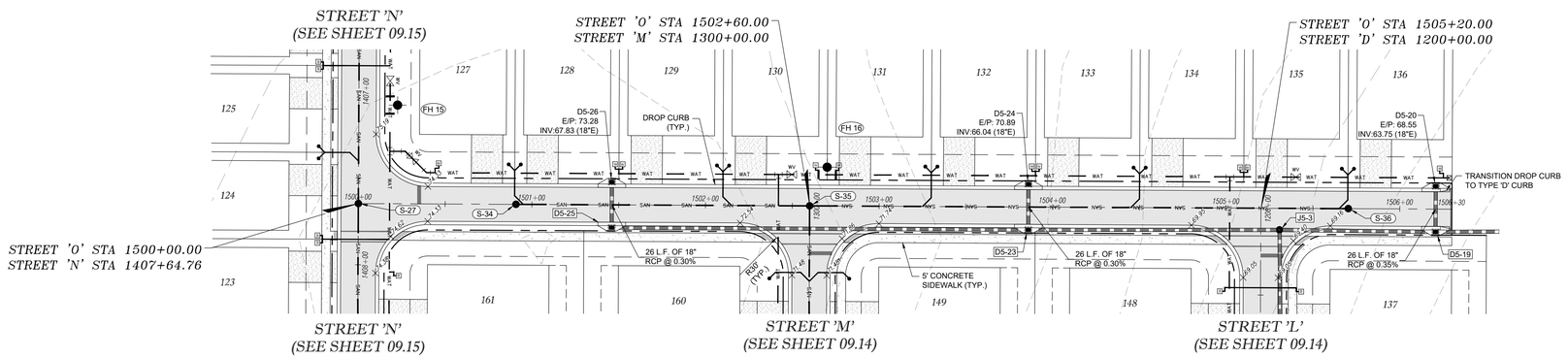

STREET 'O'

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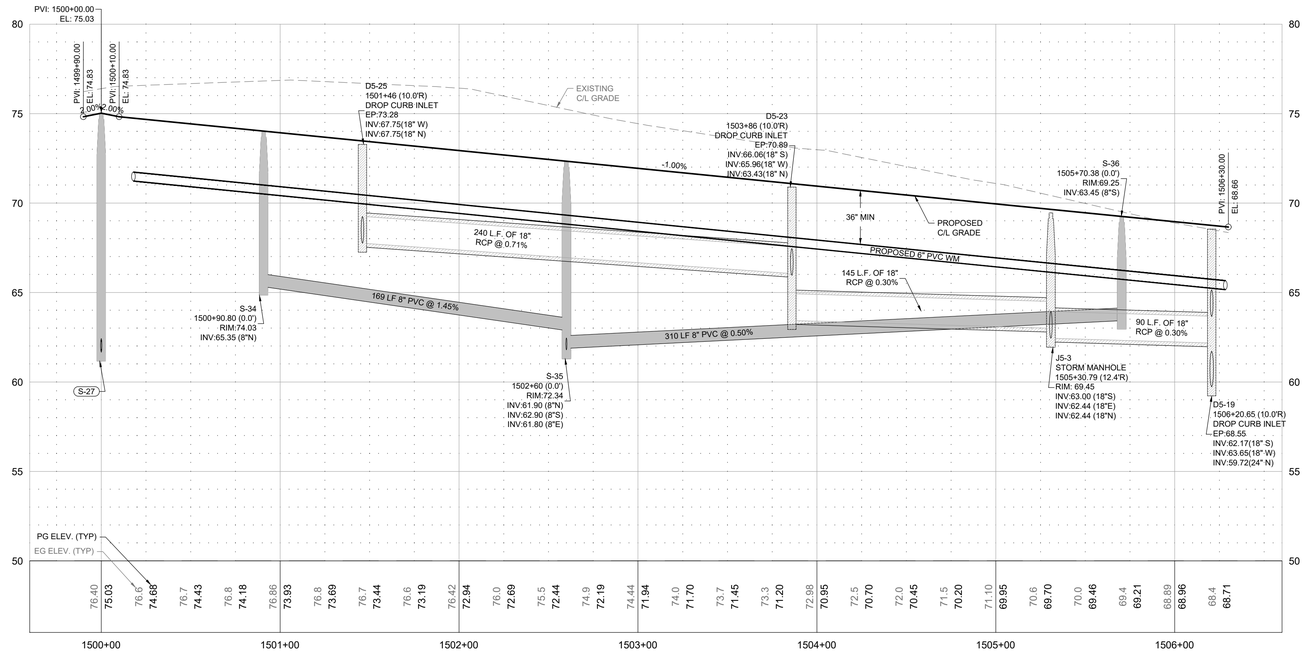

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CERTIFICATE OF AUTHORIZATION #26756

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IMPROVEMENT PLAN
WOODRIDGE PLACE
MARION COUNTY, FLORIDA
PLAN & PROFILE
STREET 'O'

DATE 7/10/2024
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JOB NO. 22-8136

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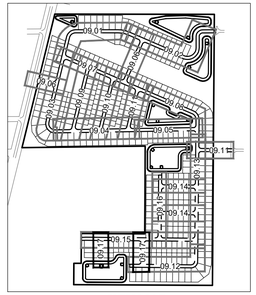

KEY MAP
SCALE 1" = 700'

WATER LEGEND:

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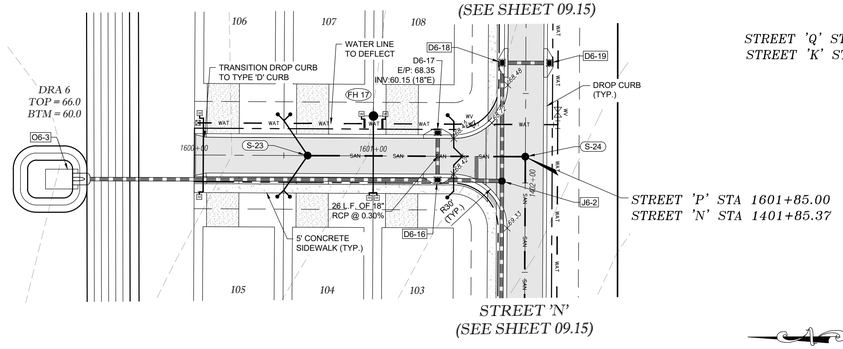
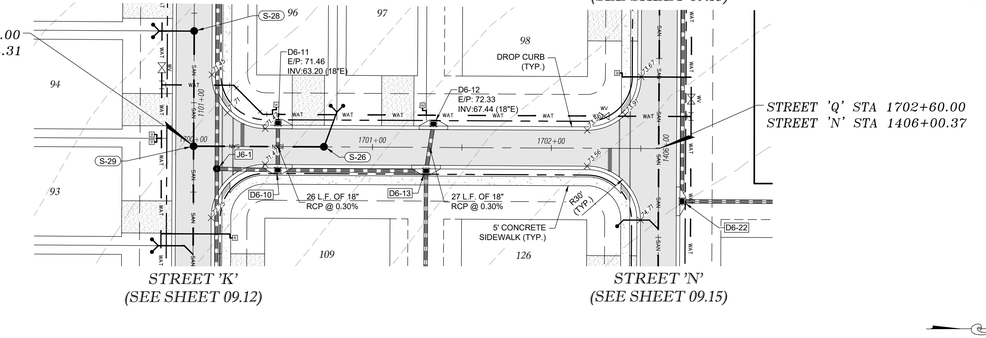
STORM WATER LEGEND:

- DROP CURB INLET
- STORM MANHOLE
- STORM PIPE
- D2-14 — STORM STRUCTURE ID





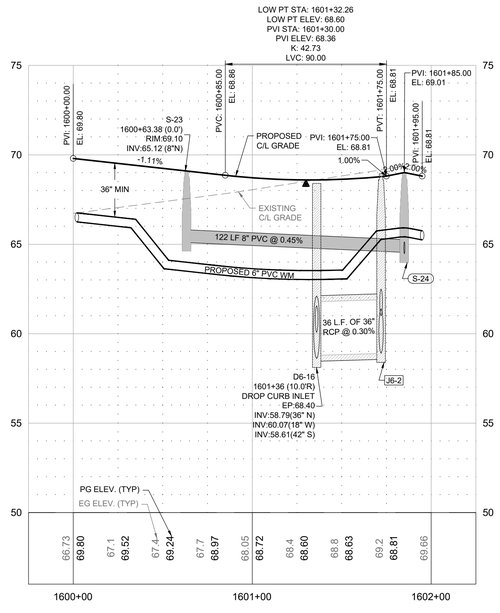
40' 20' 0 40' 80'
SCALE IN FEET
1" = 40'

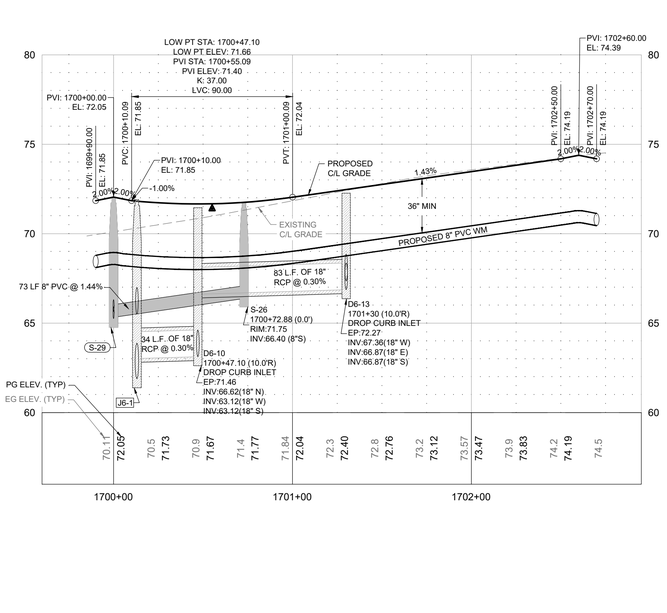
STREET 'P'

STREET 'Q'

40' 20' 0 40' 80'
SCALE IN FEET
1" = 40'

HORZ. SCALE 1" = 40'
VERT. SCALE 1" = 4'





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CERTIFICATE OF AUTHORIZATION #26756

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REVISIONS
DATE

IMPROVEMENT PLAN
WOODRIDGE PLACE
MARION COUNTY, FLORIDA
PLAN & PROFILE
STREET 'P&Q'

DATE 7/10/2024
DRAWN BY AS
CHKD. BY JMM
JOB NO. 22-8136

SHT. 09.17

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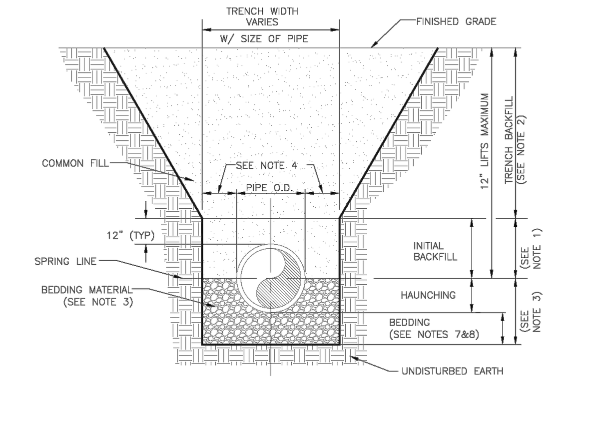
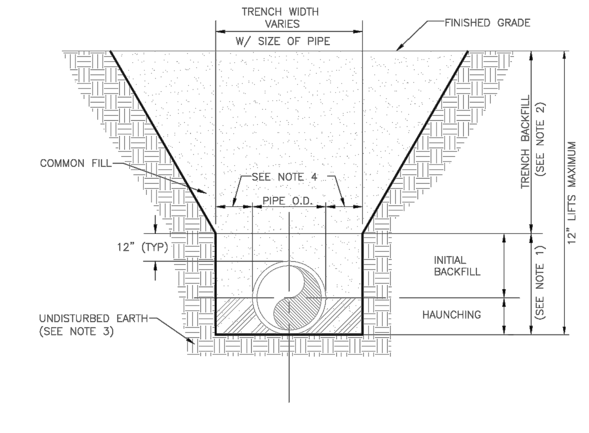


NOTES:
1. INITIAL BACKFILL: COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
3. BEDDING MATERIAL SHALL CONFORM TO FDOT NO. 57 AGGREGATE.
4. 15" MAX. (12" MIN.) FOR PIPE DIAMETER LESS THAN 24" AND 24" MAX (12" MIN) FOR PIPE DIAMETER 24" AND LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. BEDDING DEPTH SHALL BE 4" MINIMUM FOR PIPE DIAMETER UP TO 12" AND 6" MINIMUM FOR PIPE DIAMETER 16" AND LARGER.
8. DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF BEDDING ROCK BELOW THE PIPE. UTILITIES SHALL DETERMINE IN THE FIELD REQUIRED REMOVAL OF UNSUITABLE MATERIAL TO REACH SUITABLE FOUNDATION.
9. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN MARION COUNTY RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.
10. ONE COMPACTION TEST SHALL BE REQUIRED FOR EACH LIFT NOT TO EXCEED 200'.

Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # 2 | BEDDING AND TRENCHING 1 | 7.3.2 UT 102



NOTES:
1. INITIAL BACKFILL AND HAUNCHING: SELECT COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
3. PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH BEDDING AND TRENCHING 1 DETAIL MAY BE REQUIRED AS DIRECTED BY MCU.
4. 15" MAX. (12" MIN.) FOR PIPE DIAMETER LESS THAN 24" AND 24" MAX (12" MIN) FOR PIPE DIAMETER 24" AND LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
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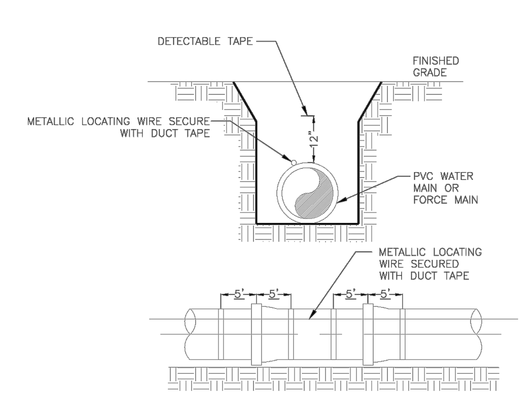
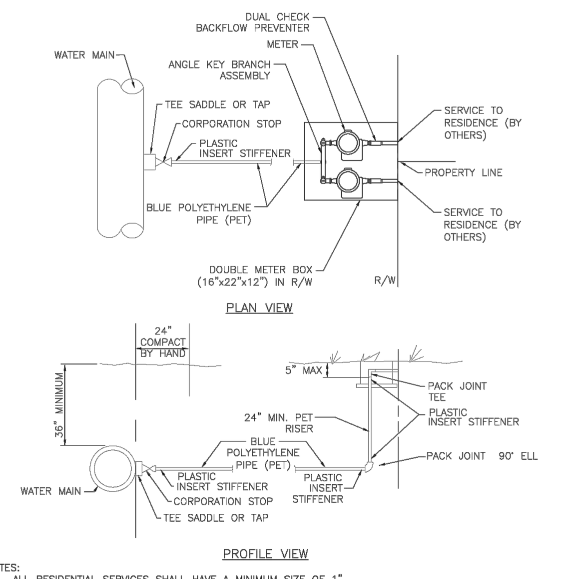
Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # 2 | BEDDING AND TRENCHING 2 | 7.3.2 UT 103



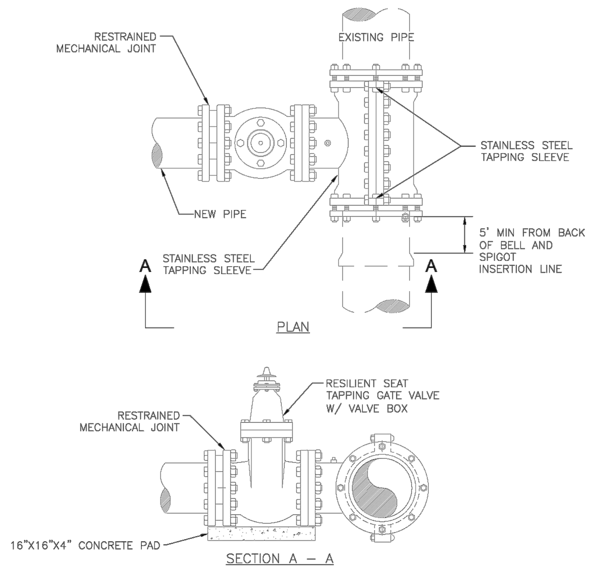
NOTES:
1. PVC PIPE SHALL REQUIRE INSULATED METALLIC LOCATING WIRE (10 GAUGE COPPER) CAPABLE OF DETECTION BY A CABLE LOCATOR AND SHALL BE BURIED ON TOP OF THE PIPE.
2. LOCATING WIRE SHALL TERMINATE AT EACH VALVE BOX AND BE CAPABLE OF EXTENDING 12" ABOVE TOP OF BOX IN SUCH A MANNER SO AS NOT TO INTERFERE WITH VALVE OPERATION PER UT 112.
3. ALL WIRE CONNECTIONS SHALL BE SPLICED TOGETHER USING WATERTIGHT WIRE NUTS.
4. FOR HORIZONTAL DIRECTIONAL DRILLING, UTILIZE 2 LOCATING WIRES EACH WITH A BREAK LOAD OF 2032 POUNDS.
5. DETECTABLE TAPE SHALL BE 1' ABOVE THE CENTERLINE OF THE PIPE.

Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # 2 | PIPE LOCATING WIRE AND DETECTABLE TAPE | 7.3.2 UT 104



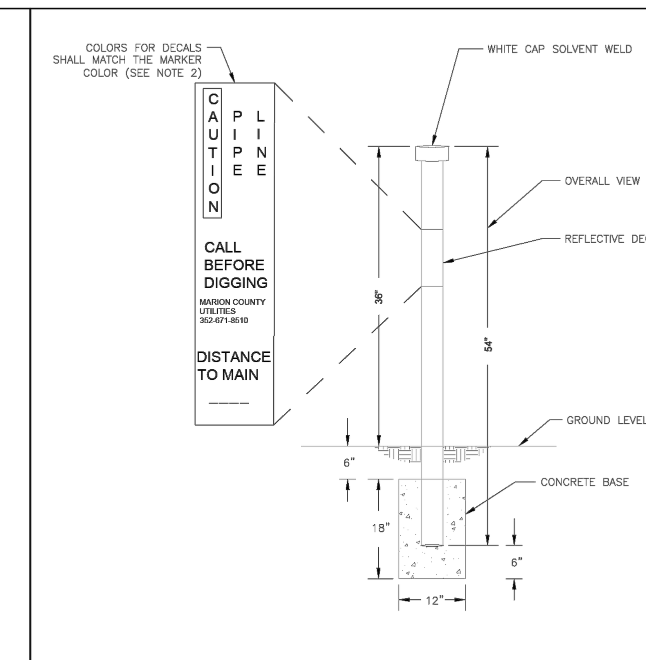
NOTES:
1. ALL RESIDENTIAL SERVICES SHALL HAVE A MINIMUM SIZE OF 1".
2. CURB STOP SHALL BE INSTALLED ON STREET SIDE OF THE SIDEWALK BETWEEN SIDEWALK AND CURB.
3. SCHEDULE 40 PVC CASING TO BE USED UNDER PAVEMENT, EXTENDING A MINIMUM OF 5' ON EITHER SIDE OF THE PAVEMENT WHERE POSSIBLE. THE INSIDE DIAMETER OF THE CASING PIPE SHALL BE A MINIMUM OF ONE INCH LARGER THAN THE OUTSIDE DIAMETER OF THE SERVICE PIPE.
4. CORP STOPS SHALL BE HORIZONTAL TO WATER MAINS.
5. LOCATE WIRE SHALL BE INSTALLED FROM MAIN TO SERVICE LINE.
6. PIPE AND FITTING SIZES TO BE DETERMINED BY SERVICE TYPE.
7. COMPACTION SHALL BE MADE UNDER AND AROUND THE CONNECTION TO THE SATISFACTION OF THE ENGINEER.
8. POTABLE WATER SERVICE CONNECTIONS SHALL BE PERMANENTLY MARKED BY ETCHING OR STAMPING A "W" IN THE CURB DIRECTLY OVER THE SERVICE LINE.
9. RECLAIMED WATER SERVICE CONNECTIONS SHALL BE PERMANENTLY MARKED BY ETCHING OR STAMPING A "RW" IN THE CURB DIRECTLY OVER THE SERVICE LINE.
10. SERVICE LINES SHALL NOT CONFLICT WITH OTHER UTILITIES. SERVICE LINES SHALL BE SLEEVED WITH SCH40 PVC IF UNDER OTHER UTILITIES.
11. ALL TAPS MUST BE LOCATED A MINIMUM OF 24" AWAY FROM ANY BELL AND/OR FITTING.

Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # 2 | WATER AND RECLAIMED WATER SERVICES (TYPICAL) | 7.3.2 UT 107



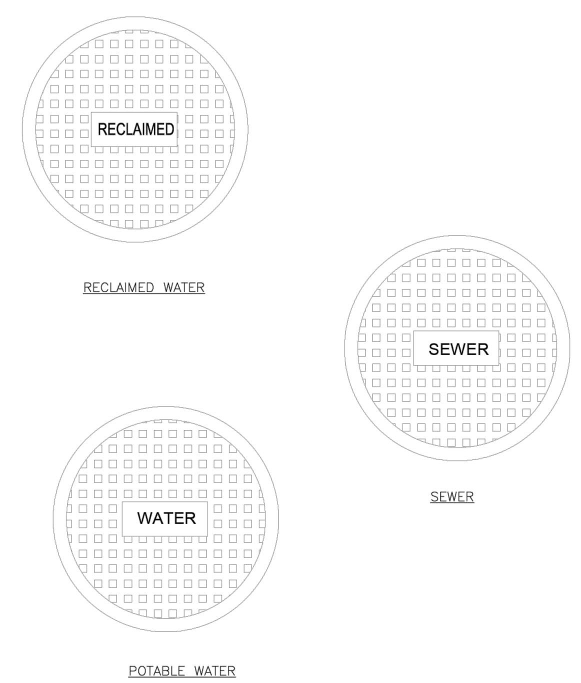
NOTES:
1. PRIOR TO BEGINNING THE TAPPING OPERATION, THE SLEEVE AND VALVE SHALL BE PRESSURE TESTED AT 150 PSI FOR A MINIMUM OF 30 MINUTES TO ENSURE THAT NO LEAKAGE WILL OCCUR.
2. CONTRACTOR SHALL PROVIDE MCU PROOF OF PRESSURE TEST IN THE FORM OF A TAPPING TEST LOG WITH THE CONTRACTOR'S SIGNATURE.
3. CONTRACTOR MUST CONFIRM RESTRAINTS IN ALL DIRECTIONS AND INSTALL ADDITIONAL RESTRAINTS AS NECESSARY TO COMPLY WITH LAND DEVELOPMENT CODE.
4. ALL TAPS MUST BE LOCATED A MINIMUM OF 5' AWAY FROM ANY BELL AND/OR FITTING.
5. STAINLESS STEEL TAPPING SLEEVE SHALL BE MADE OF 316SS.

Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # 1 | TAPPING SLEEVE AND GATE VALVE ASSEMBLY | 7.3.2 UT 108

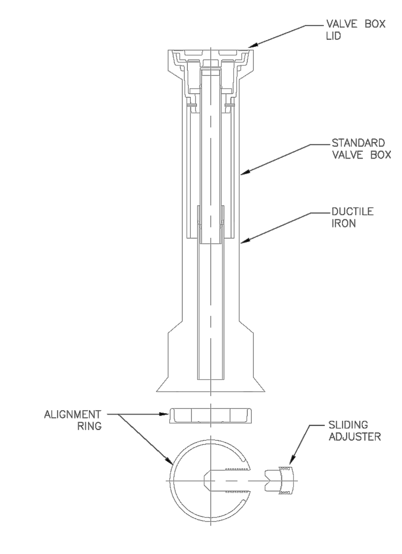


NOTES:
1. MARKERS ARE REQUIRED WHEN UTILITY MAIN IS LOCATED OVER 30 FEET FROM EDGE OF PAVEMENT OR IN AN EASEMENT NOT ADJACENT TO THE RIGHT-OF-WAY.
2. MARKERS SHALL BE 4" DIAMETER SCH80 OR DR18 PVC: BLUE FOR WATER; GREEN FOR WASTEWATER; AND PANTONE PURPLE 522C FOR RECLAIMED WATER.
3. MARKERS SHALL BE PLACED AT ALL VALVES THAT MEET NOTE 1 EXCEPT WATER VALVES NEAR FIRE HYDRANTS.
4. ADDITIONAL MARKERS SHALL BE INSTALLED AS NEEDED SO THAT THE DISTANCE BETWEEN MARKERS DOES NOT EXCEED 1,000 FEET.

Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # 2 | UTILITY MAIN MARKER | 7.3.2 UT 109

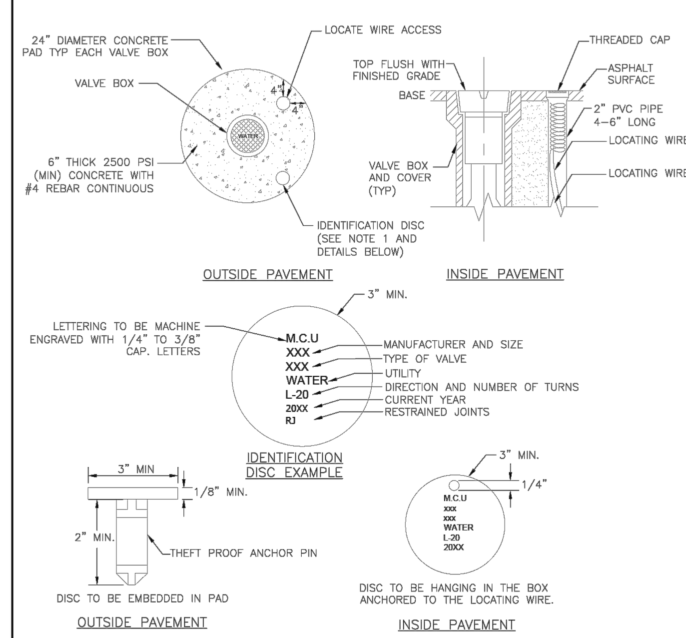


Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # NA | TYPICAL VALVE BOX COVER | 7.3.2 UT 110



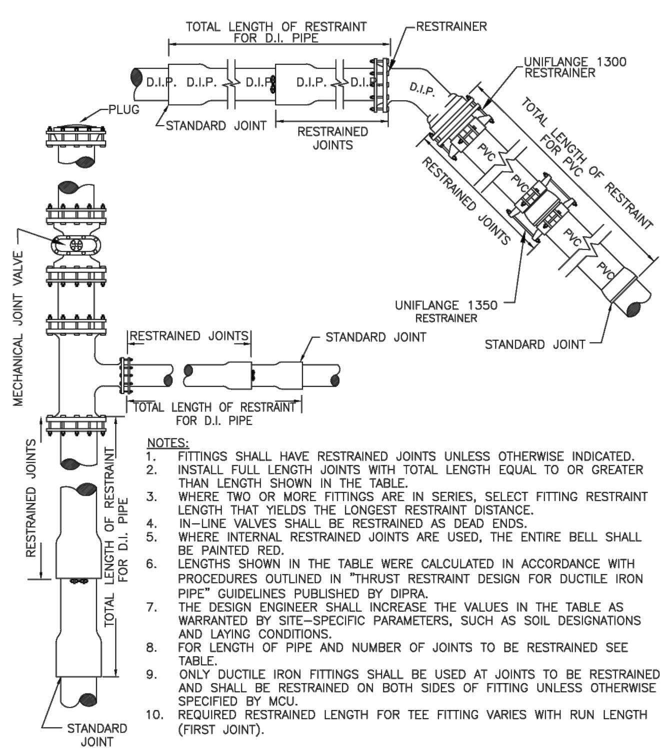
NOTES:
1. FOR ALL MAINS 6.0' DEEP OR GREATER, PVC PIPE EXTENSIONS SHALL BE USED ON VALVE BOX INSTALLATION.

Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # 1 | SEALED VALVE BOX, ADJUSTABLE | 7.3.2 UT 111



NOTES:
1. BRONZE (OR STAINLESS STEEL) IDENTIFICATION DISC SHALL BE REQUIRED FOR ALL VALVES, EXCEPT HYDRANT VALVES.
2. LOCATING WIRE SHALL TERMINATE AT EACH VALVE BOX AND BE CAPABLE OF EXTENDING 12" ABOVE TOP OF BOX IN SUCH A MANNER SO AS NOT TO INTERFERE WITH VALVE OPERATION.

Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # 1 | VALVE BOX PAD | 7.3.2 UT 112



NOTES:
1. FITTINGS SHALL HAVE RESTRAINED JOINTS UNLESS OTHERWISE INDICATED.
2. INSTALL FULL LENGTH JOINTS WITH TOTAL LENGTH EQUAL TO OR GREATER THAN LENGTH SHOWN IN THE TABLE.
3. WHERE TWO OR MORE FITTINGS ARE IN SERIES, SELECT FITTING RESTRAINT LENGTH THAT YIELDS THE LONGEST RESTRAINT DISTANCE.
4. IN-LINE VALVES SHALL BE RESTRAINED AS DEAD ENDS.
5. WHERE INTERNAL RESTRAINED JOINTS ARE USED, THE ENTIRE BELL SHALL BE PAINTED RED.
6. LENGTHS SHOWN IN THE TABLE WERE CALCULATED IN ACCORDANCE WITH PROCEDURES OUTLINED IN "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" GUIDELINES PUBLISHED BY DIPRA.
7. THE DESIGN ENGINEER SHALL INCREASE THE VALUES IN THE TABLE AS WARRANTED BY SITE-SPECIFIC PARAMETERS, SUCH AS SOIL DESIGNATIONS AND LAYING CONDITIONS.
8. FOR LENGTH OF PIPE AND NUMBER OF JOINTS TO BE RESTRAINED SEE TABLE.
9. ONLY DUCTILE IRON FITTINGS SHALL BE USED AT JOINTS TO BE RESTRAINED AND SHALL BE RESTRAINED ON BOTH SIDES OF FITTING UNLESS OTHERWISE SPECIFIED BY MCU.
10. REQUIRED RESTRAINED LENGTH FOR TEE FITTING VARIES WITH RUN LENGTH (FIRST JOINT).

Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # NA | RESTRAINED PIPE TABLE | 7.3.2 UT 116A

MINIMUM RESTRAINED LENGTH (FT) – EACH SIDE OF FITTING AND VALVE FOR DIP, PE ENCASED DIP OR BARE PVC

H=HORIZONTAL
VU=VERTICAL–UP
VD=VERTICAL–DOWN

WATER MAIN: PRESSURE: 150 PSI. DEPTH OF COVER: 3.0 ft.

REQUIRED RESTRAINED LENGTH ON WATER MAIN

Bend Type		Pipe Length (ft)							
Angle	Orientation	4"	6"	8"	10"	12"	16"	20"	24"
11-1/4°	H	2	3	4	5	5	6	8	9
	VU	2	3	4	5	5	6	8	9
	VD	6	9	11	13	16	20	24	28
22-1/2°	H	4	6	7	9	10	12	15	17
	VU	4	6	7	9	10	12	15	17
	VD	12	17	22	27	31	40	48	56
45°	H	8	11	15	17	20	25	30	35
	VU	8	11	15	17	20	25	30	35
	VD	25	35	46	55	65	82	99	115
90°	H	19	27	35	41	48	61	72	83
	VU	19	27	35	41	48	61	72	83
	VD	61	85	111	132	155	198	238	277
DEAD END PLUG AND VALVE		61	85	111	132	155	198	238	277

REQUIRED RESTRAINED LENGTH ON TEE BRANCH

TEE FITTING		Pipe Length (ft) – Diameter of Run							
		4"	6"	8"	10"	12"	16"	20"	24"
Diameter of Branch	4"	39	28	18	6	0	0	0	0
	6"		63	55	48	40	22	4	0
	8"			89	82	77	63	49	34
	10"				110	105	95	84	71
	12"					133	124	115	105
	16"						175	168	161
	20"							215	209
	24"								254

REQUIRED RESTRAINED LENGTH ON LARGER PIPE

REDUCER FITTING		Pipe Length (ft) – Diameter of Large Pipe						
		6"	8"	10"	12"	16"	20"	24"
Diameter of Small Pipe	4"	44	80	108	135	183	226	268
	6"		47	81	113	167	214	257
	8"			45	83	145	196	243
	10"				46	118	175	226
	12"					84	149	205
	16"						84	151
	20"							83

Minimum Design Criteria
Bedding Type: 4
Safety Factor: 1.5
Soil: Sand–Silt
Run Length (First Joint): 10 ft.

REQUIRED RESTRAINED LENGTH ON FORCE MAIN

Bend Type		Pipe Length (ft)							
Angle	Orientation	4"	6"	8"	10"	12"	16"	20"	24"
11-1/4°	H	2	2	3	4	4	5	6	7
	VU	2	2	3	4	4	5	6	7
	VD	5	7	9	11	12	16	19	22
22-1/2°	H	3	5	6	7	8	10	12	14
	VU	3	5	6	7	8	10	12	14
	VD	10	13	17	21	24	31	38	44
45°	H	6	9	11	14	16	20	24	28
	VU	6	9	11	14	16	20	24	28
	VD	20	27	36	43	50	64	78	91
90°	H	15	21	27	32	38	48	57	66
	VU	15	21	27	32	38	48	57	66
	VD	46	65	85	102	121	155	187	219
DEAD END PLUG AND VALVE		46	65	85	102	121	155	187	219

REQUIRED RESTRAINED LENGTH ON TEE BRANCH

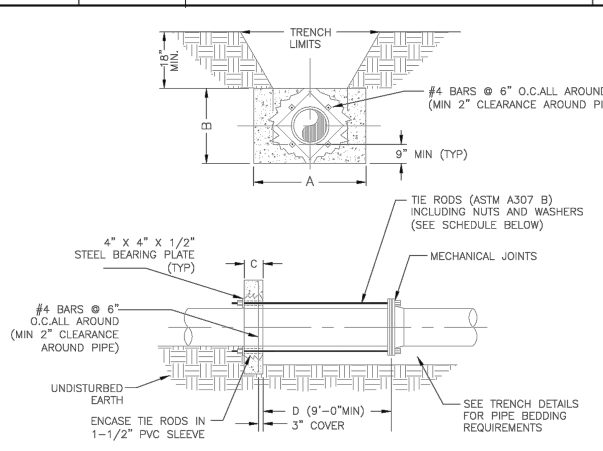
TEE FITTING		Pipe Length (ft) – Diameter of Run							
		4"	6"	8"	10"	12"	16"	20"	24"
Diameter of Branch	4"	25	14	4	0	0	0	0	0
	6"		43	36	28	21	5	0	0
	8"			63	57	52	39	26	12
	10"				80	75	66	55	44
	12"					98	90	81	72
	16"						132	126	119
	20"							164	159
	24"								196

REQUIRED RESTRAINED LENGTH ON LARGER PIPE

REDUCER FITTING		Pipe Length (ft) – Diameter of Large Pipe						
		6"	8"	10"	12"	16"	20"	24"
Diameter of Small Pipe	4"	34	61	83	105	143	178	212
	6"		36	63	88	131	168	204
	8"			35	64	113	155	192
	10"				36	92	138	179
	12"					66	118	162
	16"						66	120
	20"							66

FORCE MAIN:
PRESSURE: 100 PSI.
DEPTH OF COVER: 4.0 ft.

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



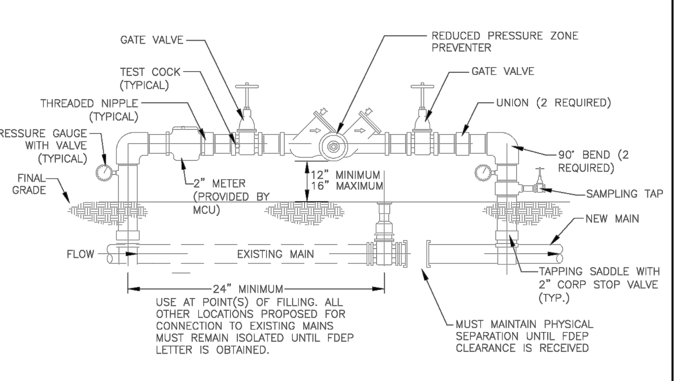
SCHEDULE OF DIMENSIONS AND MATERIALS

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

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

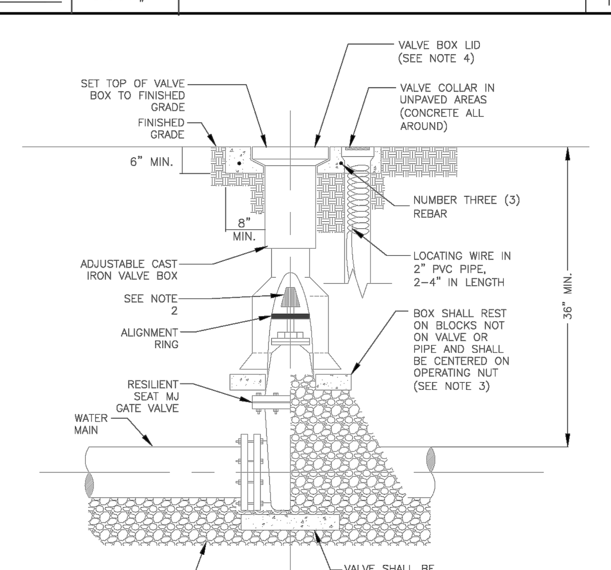
NOTES:
1. ADDITIONAL REINFORCEMENTS SHALL BE AS SPECIFIED BY THE ENGINEER.
2. MINIMUM COMPRESSIVE STRENGTH FOR CONCRETE SHALL BE 3000 PSI.
3. BEDDING, BACKFILL AND COMPACTION SHALL BE AS SPECIFIED ELSEWHERE IN THE LAND DEVELOPMENT CODE.
4. ALL FORM BOARDS SHALL BE REMOVED PRIOR TO BACKFILL.
5. NO ALLOWANCE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

Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # NA | THRUST COLLAR WATER MAINS | 7.3.2 UT 201



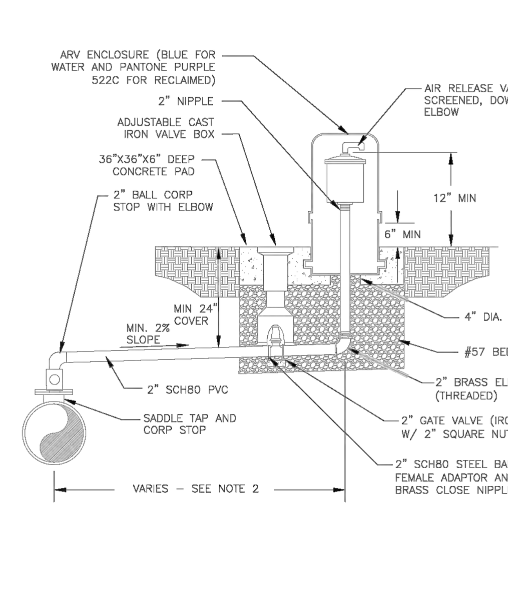
NOTES:
1. A TEMPORARY JUMPER CONNECTION IS REQUIRED AT ALL CONNECTIONS BETWEEN EXISTING ACTIVE WATER MAINS AND PROPOSED NEW WATER MAIN IMPROVEMENTS. TEMPORARY JUMPER WATER METERS WILL BE SUPPLIED BY MCU.
2. THIS DETAIL IS TO BE USED FOR FILLING ANY NEW WATER MAIN OF ANY SIZE FOR EXISTING ACTIVE WATER MAINS AND FOR FLUSHING OF NEW MAINS, AND FOR PULLING BACTERIOLOGICAL SAMPLES FROM ANY NEW WATER MAIN OF ANY SIZE. THE JUMPER CONNECTION SHALL BE MAINTAINED UNTIL AFTER FILLING, FLUSHING, TESTING, AND DISINFECTION OF THE NEW MAIN HAS BEEN SUCCESSFULLY COMPLETED AND CLEARANCE FOR USE FROM FDEP HAS BEEN RECEIVED. THIS JUMPER CONNECTION SHALL ALSO BE USED TO MAINTAIN A MINIMUM PRESSURE OF 20 PSI IN THE NEW MAINS ALL THE TIME AFTER DISINFECTION AND UNTIL THE FDEP CLEARANCE LETTER IS OBTAINED. ADEQUATE THRUST BLOCKING AND/OR RESTRAINTS SHALL BE PROVIDED TEMPORARILY, AS REQUIRED. PIPE AND FITTINGS USED FOR CONNECTING THE NEW PIPE TO THE EXISTING PIPE SHALL BE DISINFECTED PRIOR TO INSTALLATION IN ACCORDANCE WITH AWWA C651, LATEST EDITION.
3. THE TAPPING SLEEVE AND THE EXTERIOR OF THE MAIN TO BE TAPPED SHALL BE DISINFECTED BY SPRAYING OR SWABBING PER SECTION II OF AWWA C651, LATEST EDITION.
4. UPON RECEIPT OF CLEARANCE FOR USE FROM FDEP AND MCU, THE CONTRACTOR SHALL REMOVE THE TEMPORARY JUMPER CONNECTION. THE 2" CORP VALVES ARE TO BE CLOSED AND PLUGGED WITH 2" BRASS PLUGS. THE MAINS CAN NOW BE CONNECTED BY SLEEVE OR FLANGED CONNECTIONS.
5. ALL INSTALLATION AND MAINTENANCE OF THE TEMPORARY JUMPER CONNECTION ASSEMBLY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
6. WATER FOR TESTING AND DISINFECTION OF THE NEW WATER MAIN AND WATER FOR MAINTENANCE OR OTHER USES SHALL BE AT THE CONTRACTOR'S EXPENSE.
7. ALL PIPING AND APPURTENANCES TO BE 2" FOR 8" AND BELOW WATER MAINS; 4" FOR 12" WATER MAINS; 8" FOR 16" WATER MAINS; 12" FOR 24" WATER MAINS.
8. ALL TAPS MUST BE LOCATED A MINIMUM OF 24" AWAY FROM ANY BELL AND/OR FITTING.

Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # 2 | TEMPORARY JUMPER CONNECTION | 7.3.2 UT 203



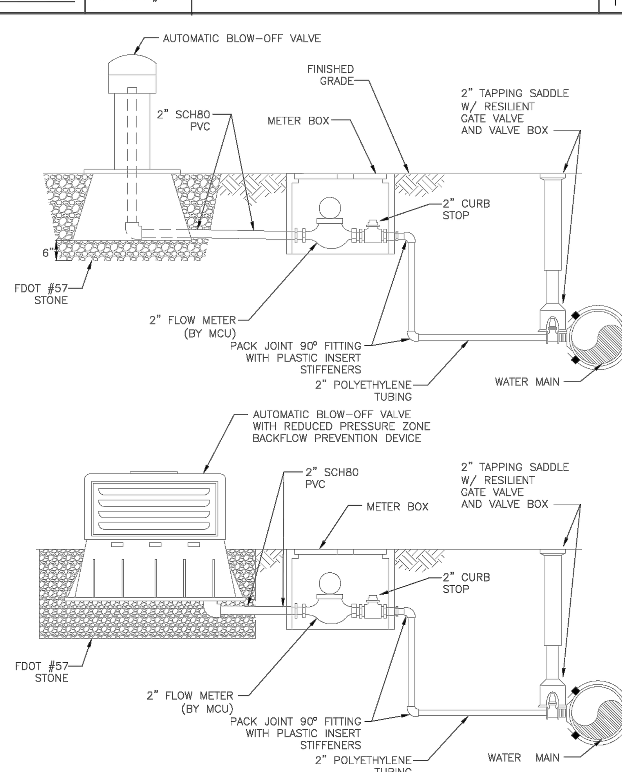
NOTES:
1. PVC EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION (SEE UT111).
2. THE ACTUATING NUT FOR VALVES DEEPER THAN SIX (6) FEET SHALL BE EXTENDED TO COME UP TO 3 FOOT DEPTH BELOW FINISHED GRADE.
3. VALVE BOX SHALL BE SET ON FIVE (5) SOLID COMMON BLOCKS.
4. VALVE BOX LID TO BE LETTERED WITH THE WORD "WATER" OR "RECLAIMED".
5. INSTALL BRASS ID TAG IN CONCRETE.

Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # 2 | GATE VALVE WATER AND RECLAIMED MAINS | 7.3.2 UT 204



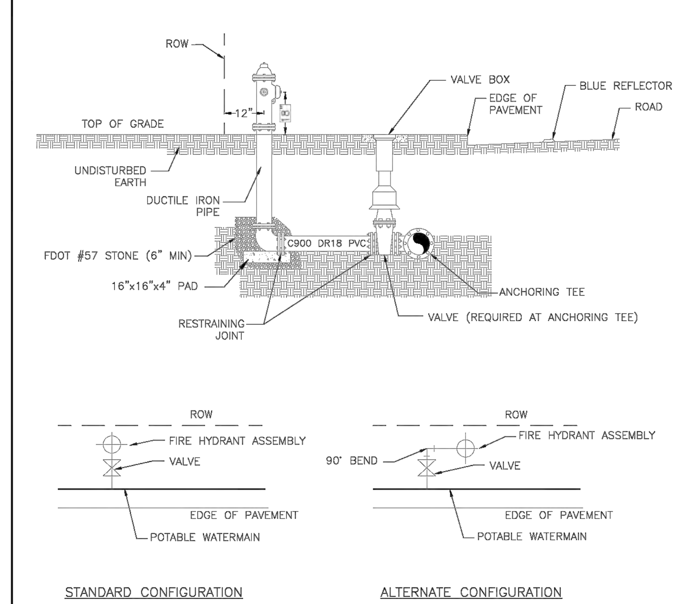
NOTES:
1. FOR WATER OR RECLAIM USE ONLY.
2. OFFSET DISTANCE TO BE FIELD DETERMINED AND AS CLOSE TO THE RIGHT-OF-WAY AS POSSIBLE.
3. ADJUST HORIZONTAL POSITION OF SIDEWALK AS REQUIRED TO AVOID ARV ENCLOSURE.
4. ARV AND CONCRETE PAD SHALL NOT BE INSTALLED DIRECTLY OVER THE WATER MAIN. LOCATE WIRE SHALL TERMINATE AT VALVE BOX AND BE CAPABLE OF EXTENDING 12" ABOVE TOP OF BOX IN SUCH A MANNER SO AS NOT TO INTERFERE WITH VALVE OPERATION (SEE UT 112.)
5. NO MALE ADAPTERS ALLOWED AT VALVE; SHALL BE A BRASS NIPPLE WITH 2" SCH80 FEMALE STEEL BANDED ADAPTER.

Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # 2 | ABOVEGROUND OFFSET WATER OR RECLAIM AIR RELEASE VALVE | 7.3.2 UT 206



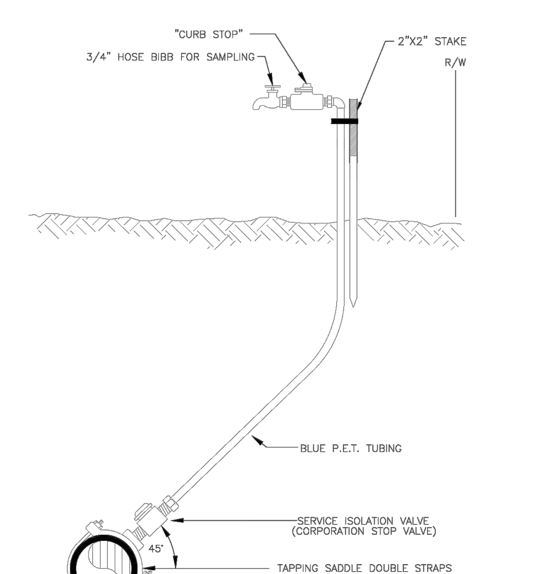
NOTES:
1. BLOW-OFF VALVE SHALL BE HYDRAGUARD OF MCU APPROVED EQUIVALENT.

Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # 2 | AUTOMATIC BLOW OFF VALVE WATER MAIN | 7.3.2 UT 207



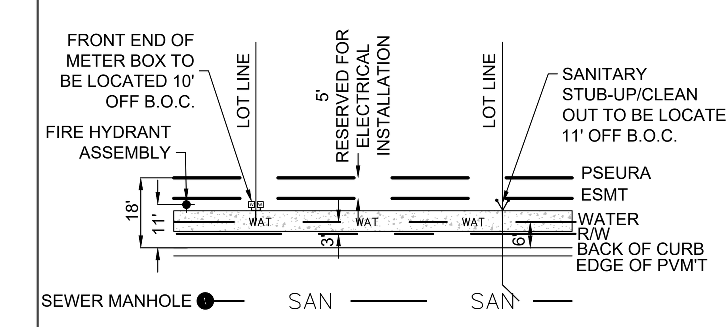
NOTES:
1. BONNET COLORS SHALL BE IN ACCORDANCE WITH SEC. 6.18.2–G.
2. HYDRANT SHALL BE 1' INSIDE OF RIGHT-OF-WAY, WHEN POSSIBLE.
3. BLUE REFLECTOR SHALL BE PLACED IN THE MIDDLE OF THE ADJACENT TRAVEL LANE.
4. RADIUS OF CLEAR SPACE AROUND THE FIRE HYDRANT SHALL BE IN ACCORDANCE WITH NFPA STANDARDS (NFPA 1 SEC. 18.5.7, AS AMENDED).

Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # 2 | FIRE HYDRANT ASSEMBLY | 7.3.2 UT 210



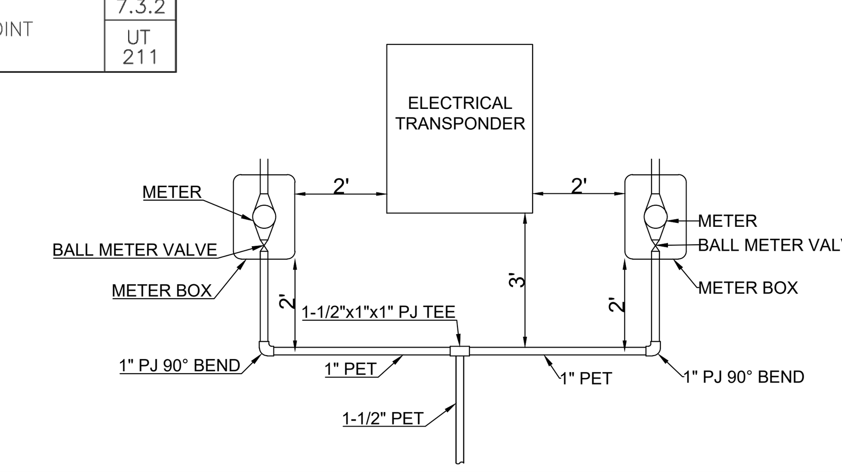
NOTE: POLY IS TO BE REMOVED AND CORPORATION STOP CLOSED AND CAPPED OFF AFTER WATER SAMPLES ARE COLLECTED AND SYSTEM IS PLACED INTO SERVICE BY FDEP.

Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # 1 | TEMPORARY SAMPLE POINT | 7.3.2 UT 211



UTILITY PLACEMENT DETAIL

N.T.S



Marion County Approval Stamp

Tillman & Associates
ENGINEERING, LLC.
CIVIL ENGINEERING - PLANNING - LANDSCAPE ARCHITECTURE - ENVIRONMENTAL
1720 SE 16th Ave. Bldg 100, Ocala, FL 34471
Office: (352) 387-4540 Fax: (352) 387-4545
CERTIFICATION OF AUTHORIZATION #26756

REVISIONS	DATE

IMPROVEMENT PLANS
WOODRIDGE PLACE
MARION COUNTY, FLORIDA

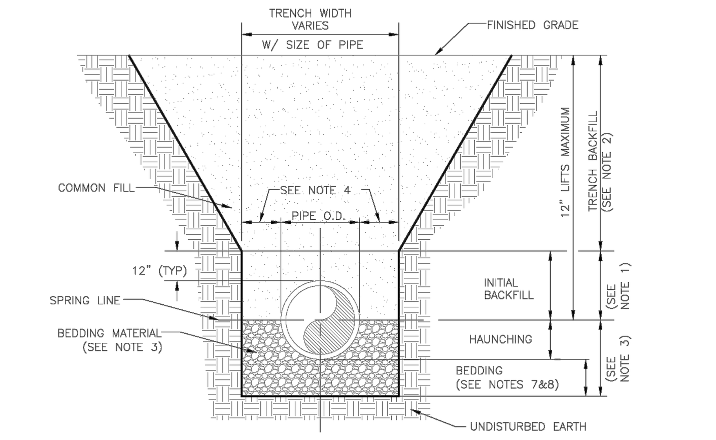
POTABLE WATER DISTRIBUTION DETAILS

DATE 6/14/2024
DRAWN BY AS
CHKD. BY JMM
JOB NO. 22-8136

SHT. 10.01

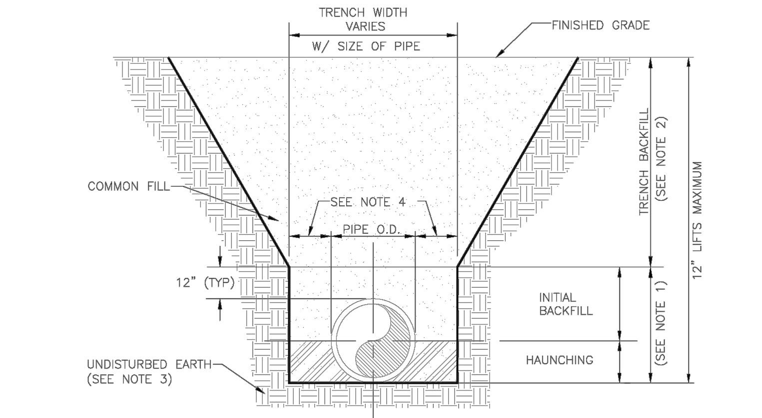
NOT VALID UNLESS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER

S:\Marion County\Harvey Vandeven_Summerbrooke Estates nka Woodland Place, NKA Woodridge Place\CIVIL\CONSTRUCTION\10 Potable Water Distribution Details.dwg, 7/10/2024 1:56:23 PM



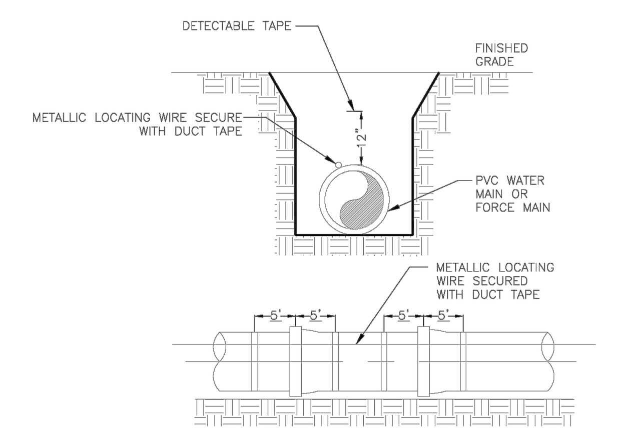
NOTES:
1. INITIAL BACKFILL: COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
3. BEDDING MATERIAL SHALL CONFORM TO FDOT NO. 57 AGGREGATE.
4. 15" MAX. (12" MIN.) FOR PIPE DIAMETER LESS THAN 24" AND 24" MAX (12" MIN) FOR PIPE DIAMETER 24" AND LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. BEDDING DEPTH SHALL BE 4" MINIMUM FOR PIPE DIAMETER UP TO 12" AND 6" MINIMUM FOR PIPE DIAMETER 16" AND LARGER.
8. DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF BEDDING ROCK BELOW THE PIPE. UTILITIES SHALL DETERMINE IN THE FIELD REQUIRED REMOVAL OF UNSUITABLE MATERIAL TO REACH SUITABLE FOUNDATION.
9. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN MARION COUNTY RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.
10. ONE COMPACTION TEST SHALL BE REQUIRED FOR EACH LIFT NOT TO EXCEED 200'.

Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # 2 | BEDDING AND TRENCHING 1 | 7.3.2 UT 102



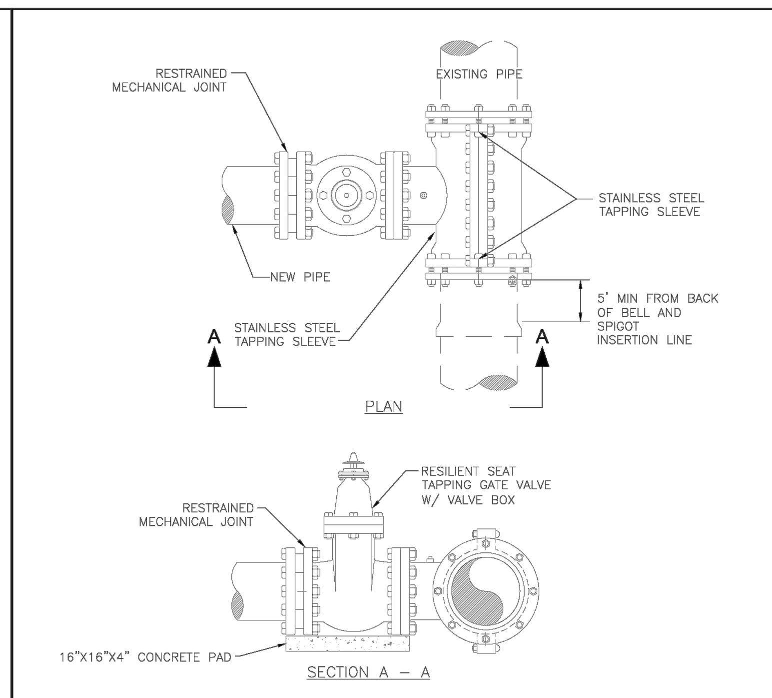
NOTES:
1. INITIAL BACKFILL AND HAUNCHING: SELECT COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
3. PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH BEDDING AND TRENCHING 1 DETAIL MAY BE REQUIRED AS DIRECTED BY MCU.
4. 15" MAX. (12" MIN.) FOR PIPE DIAMETER LESS THAN 24" AND 24" MAX (12" MIN) FOR PIPE DIAMETER 24" AND LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN MARION COUNTY RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.
8. ONE COMPACTION TEST SHALL BE REQUIRED FOR EACH LIFT NOT TO EXCEED 200'.

Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # 2 | BEDDING AND TRENCHING 2 | 7.3.2 UT 103



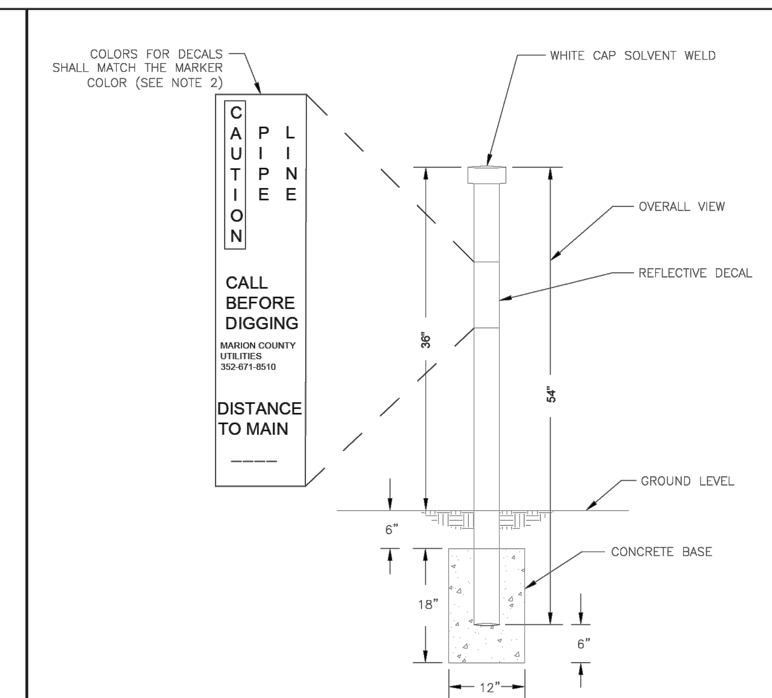
NOTES:
1. PVC PIPE SHALL REQUIRE INSULATED METALLIC LOCATING WIRE (10 GAUGE COPPER) CAPABLE OF DETECTION BY A CABLE LOCATOR AND SHALL BE BURIED ON TOP OF THE PIPE.
2. LOCATING WIRE SHALL TERMINATE AT EACH VALVE BOX AND BE CAPABLE OF EXTENDING 12" ABOVE TOP OF BOX IN SUCH A MANNER SO AS NOT TO INTERFERE WITH VALVE OPERATION PER UT 112.
3. ALL WIRE CONNECTIONS SHALL BE SPLICED TOGETHER USING WATERTIGHT WIRE NUTS.
4. FOR HORIZONTAL DIRECTIONAL DRILLING, UTILIZE 2 LOCATING WIRES EACH WITH A BREAK LOAD OF 2032 POUNDS.
5. DETECTABLE TAPE SHALL BE 1' ABOVE THE CENTERLINE OF THE PIPE.

Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # 2 | PIPE LOCATING WIRE AND DETECTABLE TAPE | 7.3.2 UT 104



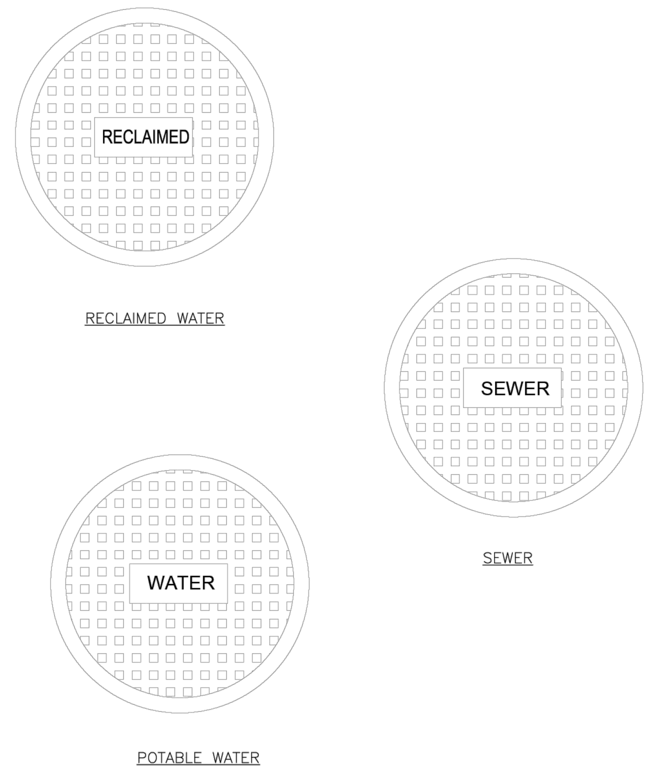
NOTES:
1. PRIOR TO BEGINNING THE TAPPING OPERATION, THE SLEEVE AND VALVE SHALL BE PRESSURE TESTED AT 150 PSI FOR A MINIMUM OF 30 MINUTES TO ENSURE THAT NO LEAKAGE WILL OCCUR.
2. CONTRACTOR SHALL PROVIDE MCU PROOF OF PRESSURE TEST IN THE FORM OF A TAPPING TEST LOG WITH THE CONTRACTOR'S SIGNATURE.
3. CONTRACTOR MUST CONFIRM RESTRAINTS IN ALL DIRECTIONS AND INSTALL ADDITIONAL RESTRAINTS AS NECESSARY TO COMPLY WITH LAND DEVELOPMENT CODE.
4. ALL TAPS MUST BE LOCATED A MINIMUM OF 5' AWAY FROM ANY BELL AND/OR FITTING.
5. STAINLESS STEEL TAPPING SLEEVE SHALL BE MADE OF 316SS.

Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # 1 | TAPPING SLEEVE AND GATE VALVE ASSEMBLY | 7.3.2 UT 108

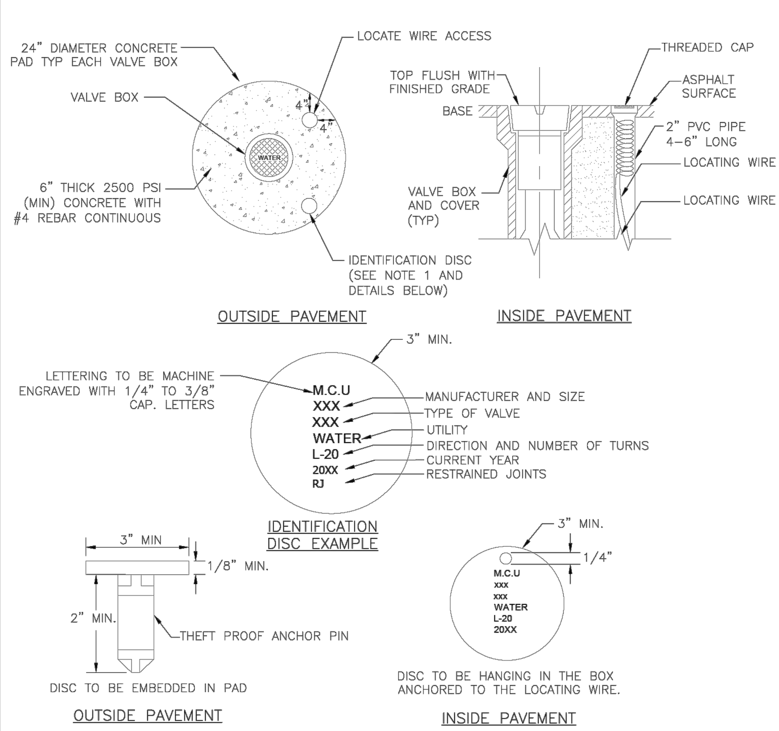


NOTES:
1. MARKERS ARE REQUIRED WHEN UTILITY MAIN IS LOCATED OVER 30 FEET FROM EDGE OF PAVEMENT OR IN AN EASEMENT NOT ADJACENT TO THE RIGHT-OF-WAY.
2. MARKERS SHALL BE 4" DIAMETER SCH80 OR DR18 PVC: BLUE FOR WATER; GREEN FOR WASTEWATER; AND PANTONE PURPLE 522C FOR RECLAIMED WATER.
3. MARKERS SHALL BE PLACED AT ALL VALVES THAT MEET NOTE 1 EXCEPT WATER VALVES NEAR FIRE HYDRANTS.
4. ADDITIONAL MARKERS SHALL BE INSTALLED AS NEEDED SO THAT THE DISTANCE BETWEEN MARKERS DOES NOT EXCEED 1,000 FEET.

Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # 2 | UTILITY MAIN MARKER | 7.3.2 UT 109

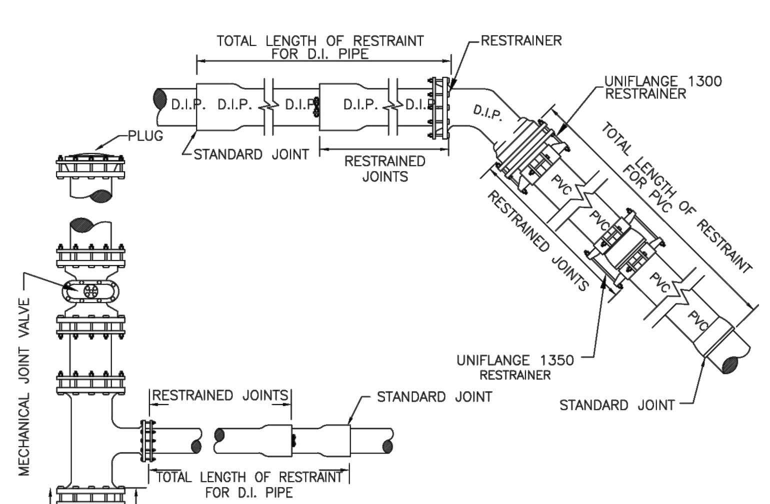


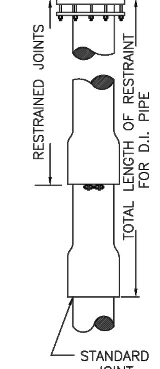
Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # NA | TYPICAL VALVE BOX COVER | 7.3.2 UT 110



NOTES:
1. BRONZE (OR STAINLESS STEEL) IDENTIFICATION DISC SHALL BE REQUIRED FOR ALL VALVES, EXCEPT HYDRANT VALVES.
2. LOCATING WIRE SHALL TERMINATE AT EACH VALVE BOX AND BE CAPABLE OF EXTENDING 12" ABOVE TOP OF BOX IN SUCH A MANNER SO AS NOT TO INTERFERE WITH VALVE OPERATION.

Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # 1 | VALVE BOX PAD | 7.3.2 UT 112





NOTES:
1. FITTINGS SHALL HAVE RESTRAINED JOINTS UNLESS OTHERWISE INDICATED.
2. INSTALL FULL LENGTH JOINTS WITH TOTAL LENGTH EQUAL TO OR GREATER THAN LENGTH SHOWN IN THE TABLE.
3. WHERE TWO OR MORE FITTINGS ARE IN SERIES, SELECT FITTING RESTRAINT LENGTH THAT YIELDS THE LONGEST RESTRAINT DISTANCE.
4. IN-LINE VALVES SHALL BE RESTRAINED AS DEAD ENDS.
5. WHERE INTERNAL RESTRAINED JOINTS ARE USED, THE ENTIRE BELL SHALL BE PAINTED RED.
6. LENGTHS SHOWN IN THE TABLE WERE CALCULATED IN ACCORDANCE WITH PROCEDURES OUTLINED IN "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" GUIDELINES PUBLISHED BY DIPRA.
7. THE DESIGN ENGINEER SHALL INCREASE THE VALUES IN THE TABLE AS WARRANTED BY SITE-SPECIFIC PARAMETERS, SUCH AS SOIL DESIGNATIONS AND LAYING CONDITIONS.
8. FOR LENGTH OF PIPE AND NUMBER OF JOINTS TO BE RESTRAINED SEE TABLE.
9. ONLY DUCTILE IRON FITTINGS SHALL BE USED AT JOINTS TO BE RESTRAINED AND SHALL BE RESTRAINED ON BOTH SIDES OF FITTING UNLESS OTHERWISE SPECIFIED BY MCU.
10. REQUIRED RESTRAINED LENGTH FOR TEE FITTING VARIES WITH RUN LENGTH (FIRST JOINT).

Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # NA | RESTRAINED PIPE TABLE | 7.3.2 UT 116A

MINIMUM RESTRAINED LENGTH (FT) — EACH SIDE OF FITTING AND VALVE FOR DIP, PE ENCASED DIP OR BARE PVC

H=HORIZONTAL
VU=VERTICAL-UP
VD=VERTICAL-DOWN

WATER MAIN: PRESSURE: 150 PSI. DEPTH OF COVER: 3.0 ft.

REQUIRED RESTRAINED LENGTH ON WATER MAIN

Bend Type		Pipe Length (ft)							
		4"	6"	8"	10"	12"	16"	20"	24"
Angle	Orientation								
11-1/4°	H	2	3	4	5	5	6	8	9
	VU	2	3	4	5	5	6	8	9
	VD	6	9	11	13	16	20	24	28
22-1/2°	H	4	6	7	9	10	12	15	17
	VU	4	6	7	9	10	12	15	17
	VD	12	17	22	27	31	40	48	56
45°	H	8	11	15	17	20	25	30	35
	VU	8	11	15	17	20	25	30	35
	VD	25	35	46	55	65	82	99	115
90°	H	19	27	35	41	48	61	72	83
	VU	19	27	35	41	48	61	72	83
	VD	61	85	111	132	155	198	238	277
DEAD END PLUG AND VALVE		61	85	111	132	155	198	238	277

REQUIRED RESTRAINED LENGTH ON TEE BRANCH

TEE FITTING		Pipe Length (ft) — Diameter of Run							
		4"	6"	8"	10"	12"	16"	20"	24"
Diameter of Branch	4"	39	28	18	6	0	0	0	0
	6"		63	55	48	40	22	4	0
	8"			89	82	77	63	49	34
	10"				110	105	95	84	71
	12"					133	124	115	105
	16"						175	168	161
	20"							215	209
	24"								254

REQUIRED RESTRAINED LENGTH ON LARGER PIPE

REDUCER FITTING		Pipe Length (ft) — Diameter of Large Pipe						
		6"	8"	10"	12"	16"	20"	24"
Diameter of Small Pipe	4"	44	80	108	135	183	226	268
	6"		47	81	113	167	214	257
	8"			45	83	145	196	243
	10"				46	118	175	226
	12"					84	149	205
	16"						84	151
	20"							83

Minimum Design Criteria
Bedding Type: 4
Safety Factor: 1.5
Soil: Sand-Silt
Run Length (First Joint): 10 ft.

REQUIRED RESTRAINED LENGTH ON FORCE MAIN

Bend Type		Pipe Length (ft)							
		4"	6"	8"	10"	12"	16"	20"	24"
Angle	Orientation								
11-1/4°	H	2	2	3	4	4	5	6	7
	VU	2	2	3	4	4	5	6	7
	VD	5	7	9	11	12	16	19	22
22-1/2°	H	3	5	6	7	8	10	12	14
	VU	3	5	6	7	8	10	12	14
	VD	10	13	17	21	24	31	38	44
45°	H	6	9	11	14	16	20	24	28
	VU	6	9	11	14	16	20	24	28
	VD	20	27	36	43	50	64	78	91
90°	H	15	21	27	32	38	48	57	66
	VU	15	21	27	32	38	48	57	66
	VD	46	65	85	102	121	155	187	219
DEAD END PLUG AND VALVE		46	65	85	102	121	155	187	219

REQUIRED RESTRAINED LENGTH ON TEE BRANCH

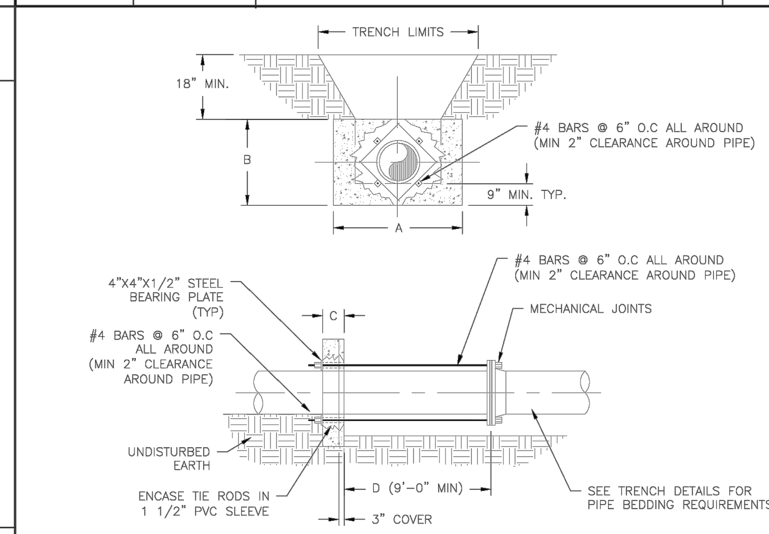
TEE FITTING		Pipe Length (ft) — Diameter of Run							
		4"	6"	8"	10"	12"	16"	20"	24"
Diameter of Branch	4"	25	14	4	0	0	0	0	0
	6"		43	36	28	21	5	0	0
	8"			63	57	52	39	26	12
	10"				80	75	66	55	44
	12"					98	90	81	72
	16"						132	126	119
	20"							164	159
	24"								196

REQUIRED RESTRAINED LENGTH ON LARGER PIPE

REDUCER FITTING		Pipe Length (ft) — Diameter of Large Pipe						
		6"	8"	10"	12"	16"	20"	24"
Diameter of Small Pipe	4"	34	61	83	105	143	178	212
	6"		36	63	88	131	168	204
	8"			35	64	113	155	192
	10"				36	92	138	179
	12"					66	118	162
	16"						66	120
	20"							66

FORCE MAIN:
PRESSURE: 100 PSI.
DEPTH OF COVER: 4.0 ft.

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



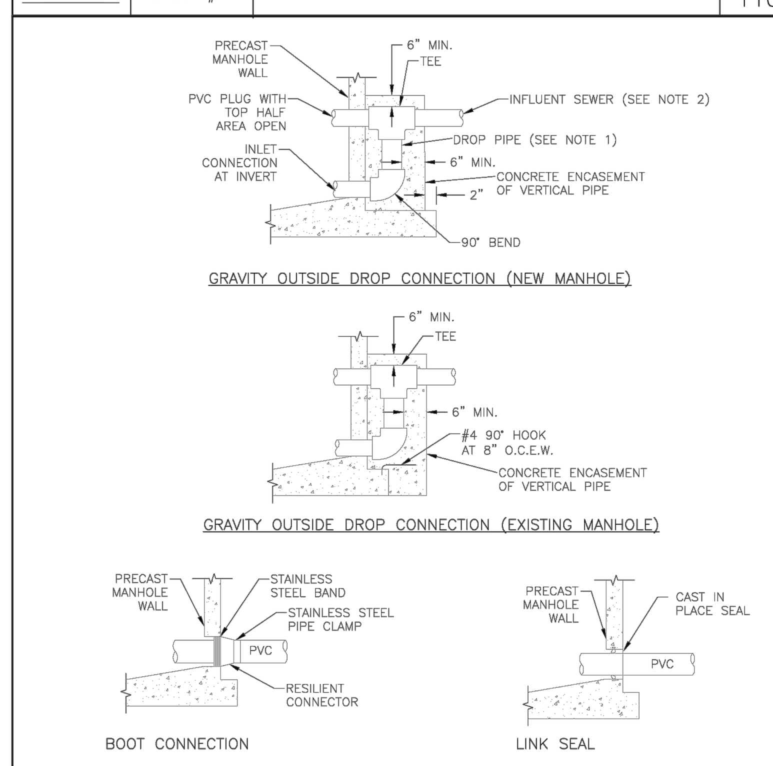
SCHEDULE OF DIMENSIONS AND MATERIALS

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

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

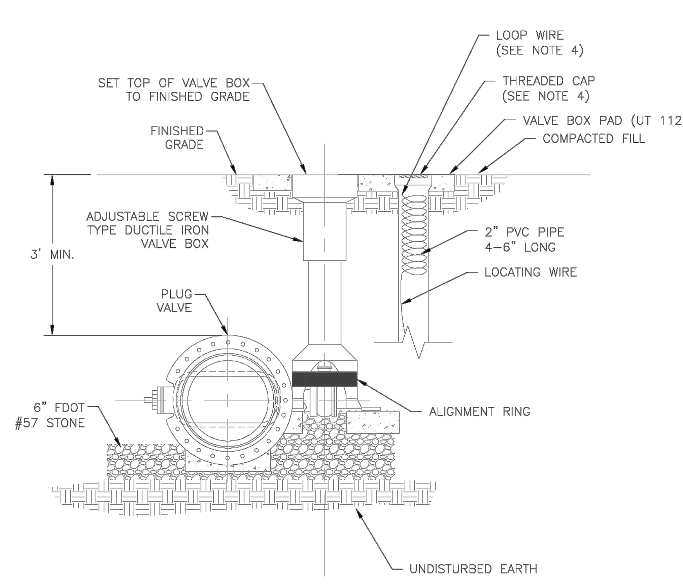
NOTES:
1. ADDITIONAL REINFORCEMENTS SHALL BE AS SPECIFIED BY THE ENGINEER.
2. MINIMUM COMPRESSIVE STRENGTH FOR CONCRETE SHALL BE 3000 PSI.
3. BEDDING, BACKFILL, AND COMPACTION SHALL BE AS SPECIFIED ELSEWHERE IN THE STANDARD DRAWINGS.
4. ALL FORM BOARDS SHALL BE REMOVED PRIOR TO BACKFILL.
5. NO ALLOWANCE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

Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # 1 | THRUST COLLAR WASTEWATER FORCE MAINS | 7.3.2 UT 301



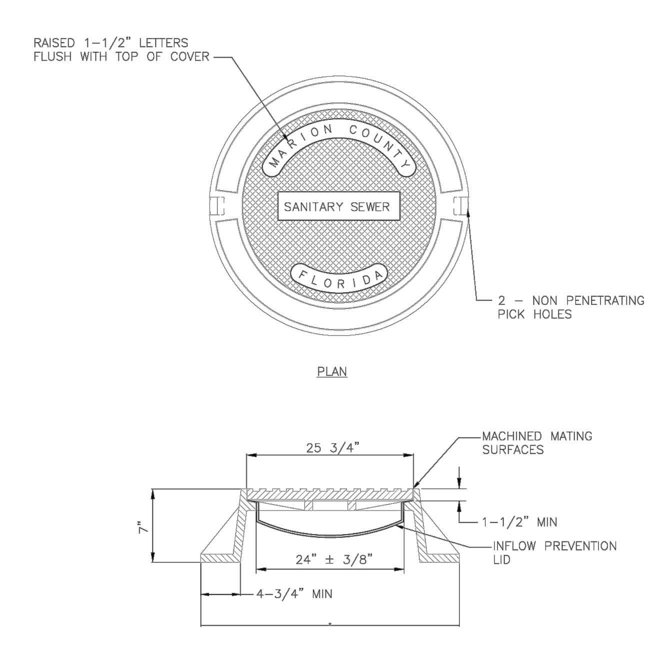
NOTES:
1. DROP PIPE AND FITTINGS SHALL BE OF EQUAL SIZE AND MATERIAL AS THE INFLUENT SEWER.
2. AN OUTSIDE DROP CONNECTION SHALL BE REQUIRED FOR ALL INFLUENT LINES WHICH HAVE AN INVERT 2' OR MORE ABOVE THE MANHOLE INVERT. ALL MANHOLES WITH DROP CONNECTIONS MUST BE LINED AND HAVE COMPOSITE RING AND COVER.
3. CONTRACTOR TO COORDINATE THE PRESENCE OF MCU INSPECTOR DURING CORING AND CONNECTIONS TO EXISTING MANHOLES.
4. POUR NEW BENCH FOR CONNECTION PER UT 302.

Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # 2 | GRAVITY MANHOLE CONNECTION | 7.3.2 UT 303



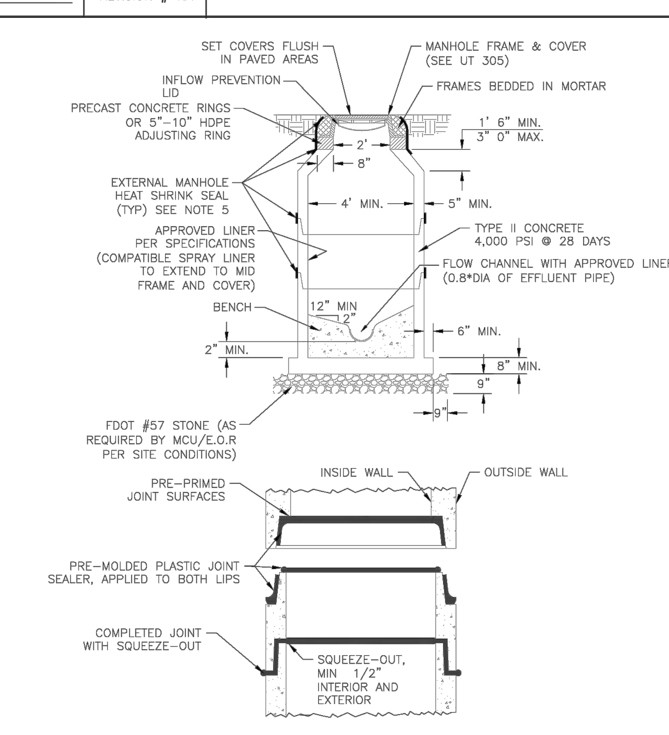
NOTES:
1. VALVE BOX INSTALLATION SHALL COMPLY WITH UT 111.
2. THE VALVE ACTUATING NUT SHALL BE EXTENDED UP TO BE WITHIN 3' OF FINISHED GRADE.
3. PROVIDE A PLASTIC DEBRIS SHIELD / ALIGNMENT RING WHICH INSTALLS BELOW THE VALVE ACTUATING NUT. THIS SHIELD SHALL CENTER THE RISER PIPE BOX OVER THE ACTUATING NUT AND MINIMIZE INFILTRATION.
4. LOCATING WIRE SHALL BE CONTINUOUS WITH NO SPLICES AND SHALL EXTEND 12" ABOVE TOP OF COLLAR. WIRE SHALL BE COLOR CODED TO MATCH THE UTILITY INSTALLED.
5. FOR NEW CONSTRUCTION, THE VALVE BOX SHALL BE ADJUSTED TO MIDRANGE TO ALLOW FOR FUTURE BOX ADJUSTMENTS.
6. VALVE BOX SHALL BE SET ON SOLID COMMON BLOCKS

Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # 2 | PLUG VALVE AND BOX | 7.3.2 UT 304



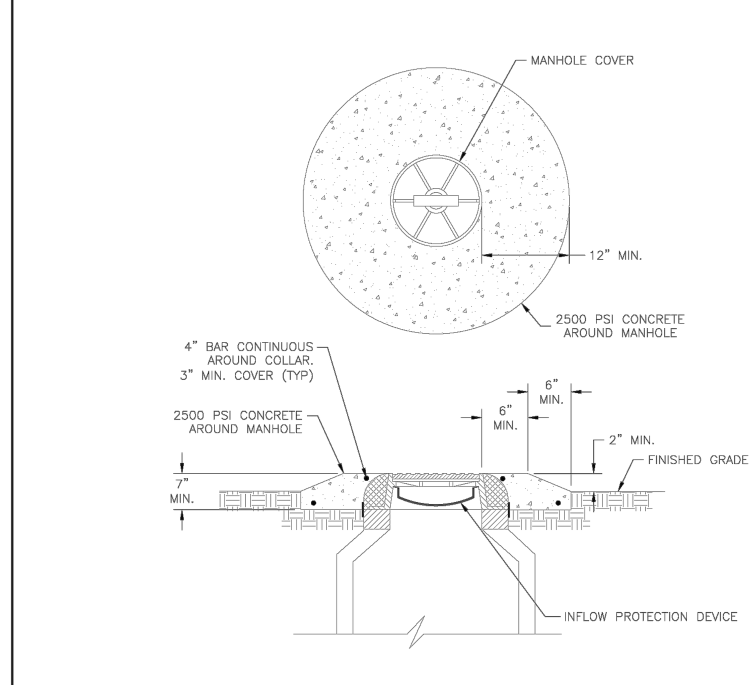
NOTES:
1. RING AND COVER SHALL BE COMPOSITE FOR DROP AND FORCEMAIN CONNECTIONS

Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # 2 | STANDARD SEWER MANHOLE FRAME AND COVER | 7.3.2 UT 305



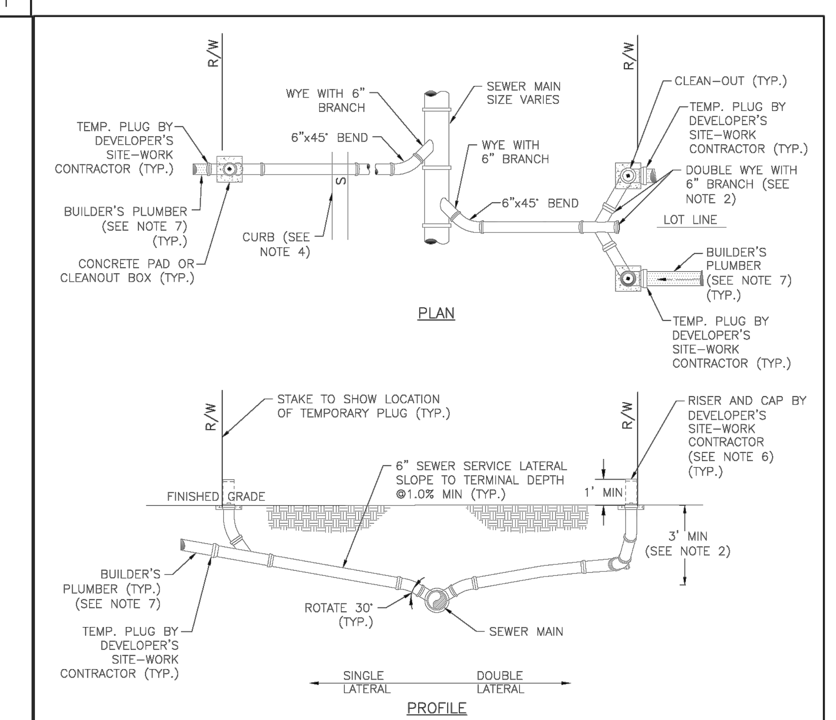
NOTES:
1. DROP CONNECTIONS ARE REQUIRED WHENEVER INVERT OF INFLUENT SEWER IS 24" OR MORE ABOVE THE INVERT OF THE MANHOLE. SEE GRAVITY MANHOLE CONNECTION DETAIL UT 303.
2. ECCENTRIC CONE DESIGN MAY ONLY BE USED FOR CONFLICT RESOLUTION WITH MCU APPROVAL. ALL MANHOLES REQUIRING DROP CONNECTIONS SHALL COMPLY WITH UT 303.
3. A FLOW CHANNEL SHALL BE CONSTRUCTED INSIDE MANHOLE TO DIRECT INFLUENT INTO FLOW STREAM.
4. LIFT HOLES THROUGH STRUCTURE ARE NOT PERMITTED.
5. USE EXTERNAL WRAP TO TIGHTLY WRAP MANHOLE AROUND CASTING JOINTS AND APPLY HIGH INTENSITY PROPANE TORCH TO EFFECTIVELY SEAL THEM FROM GROUND WATER INFILTRATION. ALL EXTERNAL HEAT SHRINK WRAPS SHALL BE INSPECTED IN PERSON, OR THROUGH A MCU APPROVED METHOD, BY A MCU CONSTRUCTION REPRESENTATIVE.
6. INFLOW PREVENTION LIDS SHALL BE REQUIRED FOR ALL MANHOLES.
7. PRECAST CONCRETE RINGS MAY BE SUBSTITUTED FOR HDPE RINGS.
8. SECTION HEIGHTS VARY AS REQUIRED, AND AS AVAILABLE.
9. IN LIEU OF SHRINK WRAPPING, MANHOLES SHALL BE VACUUM TESTED IN ACCORDANCE WITH ASTM C1244 OR HYDROSTATIC TESTED IN ACCORDANCE WITH ASTM C969 AS REQUIRED BY MCU.
10. FLOW CHANNEL DEPTH AND WIDTH CANNOT BE LESS THAN 80% OF OUTFLOW PIPE.

Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # 2 | PRECAST CONCRETE MANHOLE | 7.3.2 UT 306



NOTES:
1. CLEARANCE OF 30" FREE FROM OBSTRUCTIONS IN ALL DIRECTIONS.
2. AREAS SUPPORTING CONCRETE COLLAR OR SLAB SHALL BE PROPERLY COMPACTED.
3. TOP OF MANHOLE SHALL BE 2" ABOVE FINISHED GRADE, CROWN OF ADJACENT ROADWAY, OR 100 YEAR FLOOD ELEVATION, WHICHEVER IS GREATER.

Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # 1 | MANHOLE IN NON-PAVED AREA | 7.3.2 UT 309



NOTES:
1. INVERT OF SERVICE LATERAL SHALL NOT ENTER SEWER MAIN BELOW SPRING LINE.
2. WYE TO BE NO SHALLOWER THAN 3' AND NO DEEPER THAN 5'.
3. ALL FITTINGS SHOWN ARE TO BE INSTALLED.
4. SERVICE CONNECTIONS SHALL BE PERMANENTLY MARKED BY ETCHING OR STAMPING AN "S" IN THE CURB DIRECTLY OVER THE LATERAL. WHERE NO CURB EXISTS, LOCATION SHALL BE MARKED BY PLACEMENT OF ADHESIVE REFLECTIVE MARKERS AS SPECIFIED BY MCU.
5. CLEANOUT CAP SHALL BE SET A MINIMUM OF 2" ABOVE THE FINISHED GRADE. CLEANOUTS IN RV PARKS SHALL BE SET 6" ABOVE FINISHED GRADE WITH A CONCRETE COLLAR.
6. DURING CONSTRUCTION, SERVICE LATERAL AND CLEANOUTS SHALL BE STUBBED OUT A MINIMUM OF 1' ABOVE FINISHED GRADE AND SHALL BE CAPPED BY DEVELOPER'S SITE-WORK CONTRACTOR UNTIL PROPERTY IS DEVELOPED AND CONNECTION TO CENTRAL SEWER IS MADE BY PLUMBER.
7. BUILDER'S PLUMBER SHALL CUT RISER, INSTALL CLEANOUT CAP, REMOVE TEMPORARY PLUG, CONNECT SERVICE LATERAL TO HOUSE PLUMBING AND GROUT VOID BETWEEN CLEANOUT AND PAD.
8. ALL DEVELOPMENT SHALL BE DESIGNED AND BUILT IN A MANNER WHERE THE LOWEST WASTEWATER SERVICE LATERAL DOES NOT DROP BELOW THE GRAVITY SEWER GRADE LINE.

Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # 2 | SEWER SERVICE LATERAL | 7.3.2 UT 312

Marion County Approval Stamp

Tillman & Associates
ENGINEERING, LLC.
CIVIL ENGINEERING - PLANNING - LANDSCAPE ARCHITECTURE - ENVIRONMENTAL
1720 SE 16th Ave. Bldg 100, Ocala, FL 34471
Office: (352) 387-4540 Fax: (352) 387-4545
CERTIFICATION OF AUTHORIZATION #26756

DATE	REVISIONS

IMPROVEMENT PLANS
WOODRIDGE PLACE
MARION COUNTY, FLORIDA

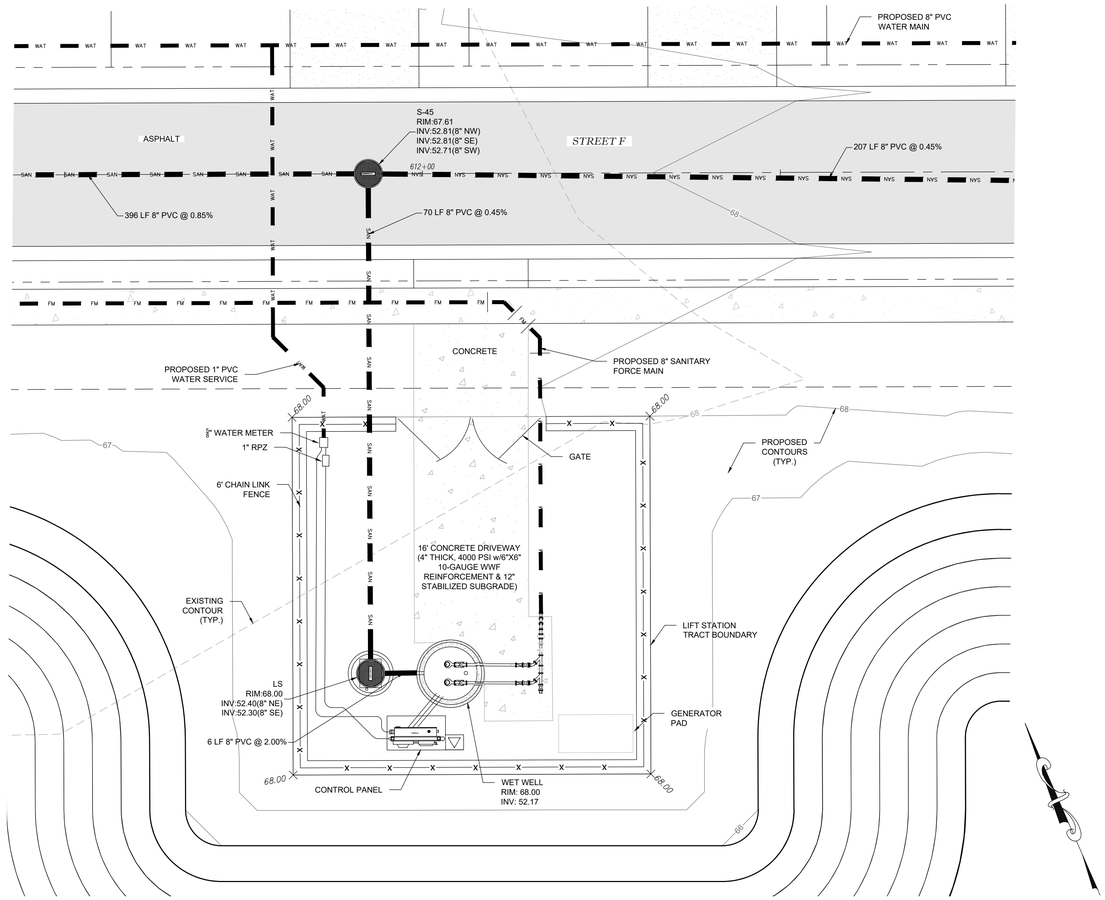
SANITARY SEWER DETAILS

DATE 6/14/2024
DRAWN BY AS
CHKD. BY JMM
JOB NO. 22-8136

SHT. 11.01

\Marion County\Harvey Vandeven, Summerbrooke Estates nka Woodland Place, NKA Woodridge Place\CIVIL\CONSTRUCTION\11 Sanitary Sewer Details.dwg, 7/10/2024 1:56:39 PM

NOT VALID UNLESS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER



LIFT STATION PLAN

LIFT STATION AND ABOVE-GROUND VALVE ARRAY
SCALE: 1"=10'

WASTEWATER PUMP STATION SPECIFICATIONS

GENERAL NOTES:
1. MINIMUM DISTANCE BETWEEN FENCE AND ALL INSTALLED EQUIPMENT SHALL BE 5'.
2. MANHOLE AND WETWELL SHALL HAVE HDPE LINING.
3. AIR RELEASE VALVE DISCHARGE LINE SHALL BE A MINIMUM OF 2" SCHEDULE 80 PVC PIPE.
4. CONDUITS FROM CONTROL PANEL SHALL BE 2" DIAMETER MINIMUM. PRECAST PENETRATIONS SHALL BE 3" MINIMUM. THERE SHALL BE A MINIMUM OF ONE CONDUIT FOR LEVEL CONTROLS. THE NUMBER OF CONDUITS REQUIRED FOR PUMP LEADS WILL BE AS REQUIRED BY THE PUMP MANUFACTURER. CONDUIT PENETRATIONS SHALL BE A MAXIMUM OF 24" FROM THE TOP SLAB OF THE LIFT STATION.
5. PROVIDE FLYGT PUMP STANDARD PACKAGE.
6. 24-HOUR ACCESS TO LIFT STATION SHALL BE PROVIDED TO M.C.U.D.
7. ALL EQUIPMENT PLACEMENT SHALL BE COORDINATED WITH M.C.U.D. IN THE FIELD, THE MAXIMUM NUMBER OF CONDUIT BENDS SHALL BE LESS THAN 270-DEGREES OF TOTAL TURNS.

MANUFACTURER: FLYGT
MODEL: NP.3102.900 18-10-2AS-W
IMP: 135 MM
DIA: N/A
SPEED: 3600 RPM
DISCHARGE SIZE: 3"

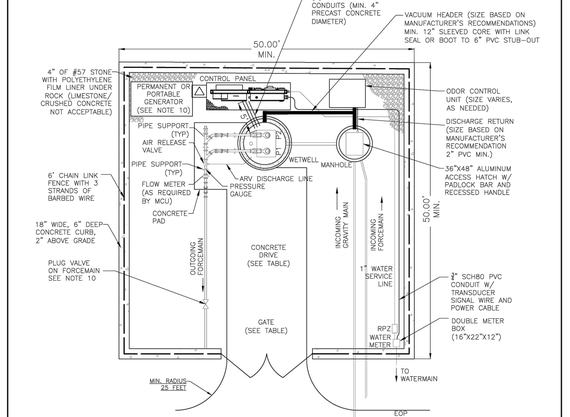
VOLTAGE: 220 V
PHASE: 3
H.P.: 7.2
MAX. SOLID SIZE (3 IN MIN): 3 IN
CURVE NUMBER: N/A

SHUT OFF HEAD: 115.5 FEET TDH
HEAD CONDITION: 210 GPM AT 69 TDH

DESCRIPTION	SYMBOL	DIMENSION	ELEVATION
THICKNESS OF WALL	A	8"	—
DIAMETER OF WET WELL	B	8"	—
WIDTH OF BOTTOM FILLET	C	SEE NOTE 1	—
C/L OF WET WELL TO C/L OF PIPES	D	SEE NOTE 1	—
LENGTH OF PUMP ACCESS OPENING	E	SEE NOTE 1	—
WIDTH OF PUMP ACCESS OPENING	F	SEE NOTE 1	—
CENTER OF WET WELL TO EDGE OF HATCH	G	SEE NOTE 1	—
LIP WIDTH OF WETWELL BASE	R	18"	—
THICKNESS OF WETWELL BASE	S	12"	—
TOP OF WET WELL	T	—	68.00
FINISHED GRADE	U	—	68.00
HIGH LEVEL ALARMS	V	—	50.2
LAG PUMP ON	W	—	49.7
LEAD PUMP ON	X	—	48.7
PUMPS OFF (TOP OF PUMP VOLUTE)	Y	—	46.2
BOTTOM OF PUMP TO FLOOR OF WET WELL	P		—
STEP HEIGHT (IF REQUIRED)	Q		—
FLOOR OF WET WELL	Z	—	45.2

LIFT STATION NOTES:
1. PER PUMP MANUFACTURER'S REQUIREMENTS, DIMENSION P AND ELEVATIONS Y AND Z MUST MEET MANUFACTURER'S REQUIREMENTS.
2. TOP ELEVATION OF WET WELL SHALL BE A MINIMUM OF 1' ABOVE THE 100 YEAR FLOOD ELEVATION AND THE ELEVATION OF THE CROWN OF THE ROAD.
3. SYMBOLS SHOWN IN TABLE ARE USED IN DETAILS UT515 AND UT516.
4. LIGHTNING ARRESTER/SURGE CAPACITOR AND KILL SWITCH SHALL BE PROVIDED.
5. BATTERY BACKUP FOR AUDIBLE ALARM AND WARNING LIGHT SHALL BE PROVIDED.

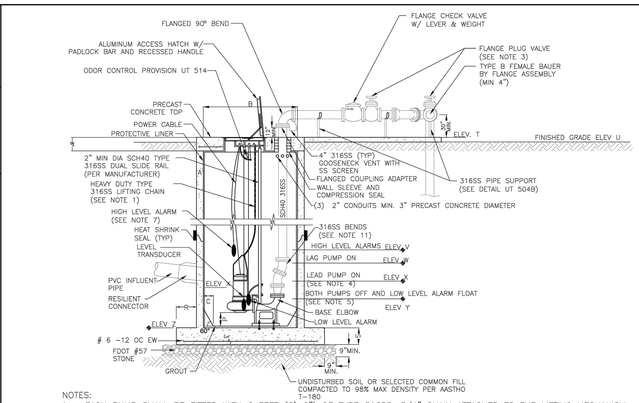
*DETAIL FOR INFORMATIONAL PURPOSE ONLY. USE SITE PLAN IN LOWER LEFT CORNER FOR ACTUAL LIFT STATION CONFIGURATION



GATE WIDTH TABLE (SEE NOTE 5)		
DISTANCE FROM LIFT STATION FENCE TO ROW	DRIVEWAY WIDTH	GATE WIDTH
<10'	20'	24'
10' TO 15'	18'	22'
15' TO 20'	16'	20'
>20'	14'	18'

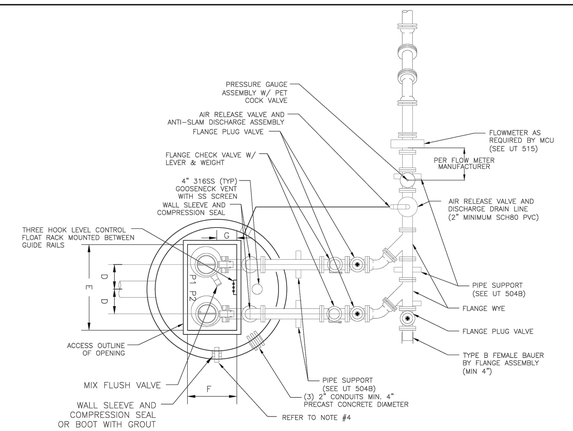
NOTES:
1. ENGINEER SHALL PROVIDE A SCALED (1" = 20' MIN.) SITE SPECIFIC DETAIL.
2. MINIMUM DISTANCE BETWEEN FENCE AND ALL INSTALLED EQUIPMENT SHALL BE 5'.
3. ON-SITE MANHOLE, WETWELL, AND ALL OFF-SITE MANHOLES, WITHIN 400', SHALL BE LINED.
4. ELECTRICAL CONDUIT SIZE WILL VARY WITH PUMP SIZE (MINIMUM 2" PVC).
5. TABLE ASSUMES THE EOP TO THE ROW IS 15'. DISTANCES LESS THAN 15' WILL REQUIRE MCU APPROVAL AND MODIFICATION OF GATE.
6. ARV SIZE TO BE DETERMINED BY THE ENGINEER AND APPROVED BY MCU PRIOR TO INSTALLATION. ENGINEER TO PROVIDE SIZING CALCULATIONS.
7. THE CONCRETE DRIVEWAY SHALL BE 6" THICK WITH 6" X 6" WELDED WIRE FABRIC. THE CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 3,000 PSI. WIDTH OF DRIVEWAY SHALL BE DETERMINED PER GATE WIDTH TABLE.
8. FLOW METER MUST BE INSTALLED PER MANUFACTURERS SPECIFICATIONS.
9. ON-SITE PLUG VALVE REQUIRED IF NEAREST OFF-SITE PLUG VALVE IS GREATER THAN 200' AWAY.
10. AS REQUIRED BY FDEP, SIZE VARIES.

Marion County FLORIDA UTILITIES	MCBCC EFFECTIVE 04/13/2023	DUPLEX PUMP STATION SITE PLAN WITH ABOVEGROUND VALVE ARRAY	7.3.2
	REVISION # 1		UT 514



NOTES:
1. EACH PUMP SHALL BE FITTED WITH 6 FEET (6'-0") OF TYPE 316SS, 3/4" CHAIN ATTACHED TO THE LIFTING MECHANISM AND AIRCRAFT RATED 1/4" SS CABLE PROVIDED BETWEEN THE CABLE HOLDER AND THE CHAIN.
2. WALL SLEEVE AND COMPRESSION SEALS SHALL BE COMPATIBLE WITH LINER.
3. ABOVE GROUND PLUG VALVES SHALL BE GEAR OPERATED VERTICAL WHEEL VALVES.
4. ELEVATION X – ELEVATION Z ≥ 5'.
5. PUMP OFF ELEVATION TO BE PER MANUFACTURER'S MINIMUM SUBMERGENCE.
6. SEE FIGURE UT 503 FOR DESCRIPTIONS OF DIMENSION SYMBOLS.
7. INSTALLED TO PROVIDE DRY CONTACT FOR SCADA AND OPERATION OF INDEPENDENT FLOAT BACKUP SYSTEM AT HIGH WELL.
8. ALL FLANGES: PIPE, VALVES AND APPURTENANCES SHALL HAVE 316SS HARDWARE.
9. EMERGENCY PUMP OUT CONNECTION SHALL BE A TYPE B FEMALE BAUER BY FLANGE (MIN. 4") ASSEMBLY.
9. EMERGENCY PUMP OUT CONNECTION SHALL BE A TYPE B FEMALE BAUER BY FLANGE (MIN. 4") ASSEMBLY.
10. FLOWMETER TO BE INSTALLED AS REQUIRED PER MCU, DETAIL SHOWING FLOWMETER AND COVER TO BE SUBMITTED TO AND APPROVED BY MCU.
11. BEND ANGLE TO BE DETERMINED DURING DESIGN TO MAINTAIN VERTICAL ALIGNMENT OF GUIDE RAILS AND RISER PIPE.

Marion County FLORIDA UTILITIES	MCBCC EFFECTIVE 04/13/2023	DUPLEX PUMP STATION SECTION W/ ABOVEGROUND VALVE ARRAY	7.3.2
	REVISION # 1		UT 515



N.T.S.

NOTES:
1. SEE DETAIL UT 503 FOR DESCRIPTIONS OF DIMENSION SYMBOLS.
2. MCU APPROVAL IS REQUIRED PRIOR TO PIPE LAYOUT CHANGES.
3. PRESSURE GAUGE ASSEMBLY SHALL BE INSTALLED ON THE SPOOL PIECE BETWEEN THE ARV AND THE FLOWMETER.
4. ODOR CONTROL PROVISIONS, SEE DETAIL UT 514. MCU APPROVAL IS REQUIRED PRIOR TO PRECAST INSTALLATION.
5. FLOW METER MUST BE INSTALLED PER MANUFACTURERS SPECIFICATIONS, AS REQUIRED.

Marion County FLORIDA UTILITIES	MCBCC EFFECTIVE 04/13/2023	DUPLEX PUMP STATION PLAN W/ ABOVEGROUND VALVE ARRAY	7.3.2
	REVISION # 1		UT 516

Marion County Approval Stamp

Tillman & Associates ENGINEERING, LLC.
CIVIL ENGINEERING - PLANNING - LANDSCAPE ARCHITECTURE - ENVIRONMENTAL
1720 SE 16th Ave. Bldg 100, Ocala, FL 34471
Office: (352) 387-4540 Fax: (352) 387-4545
CERTIFICATE OF AUTHORIZATION #26795

REVISIONS

DATE

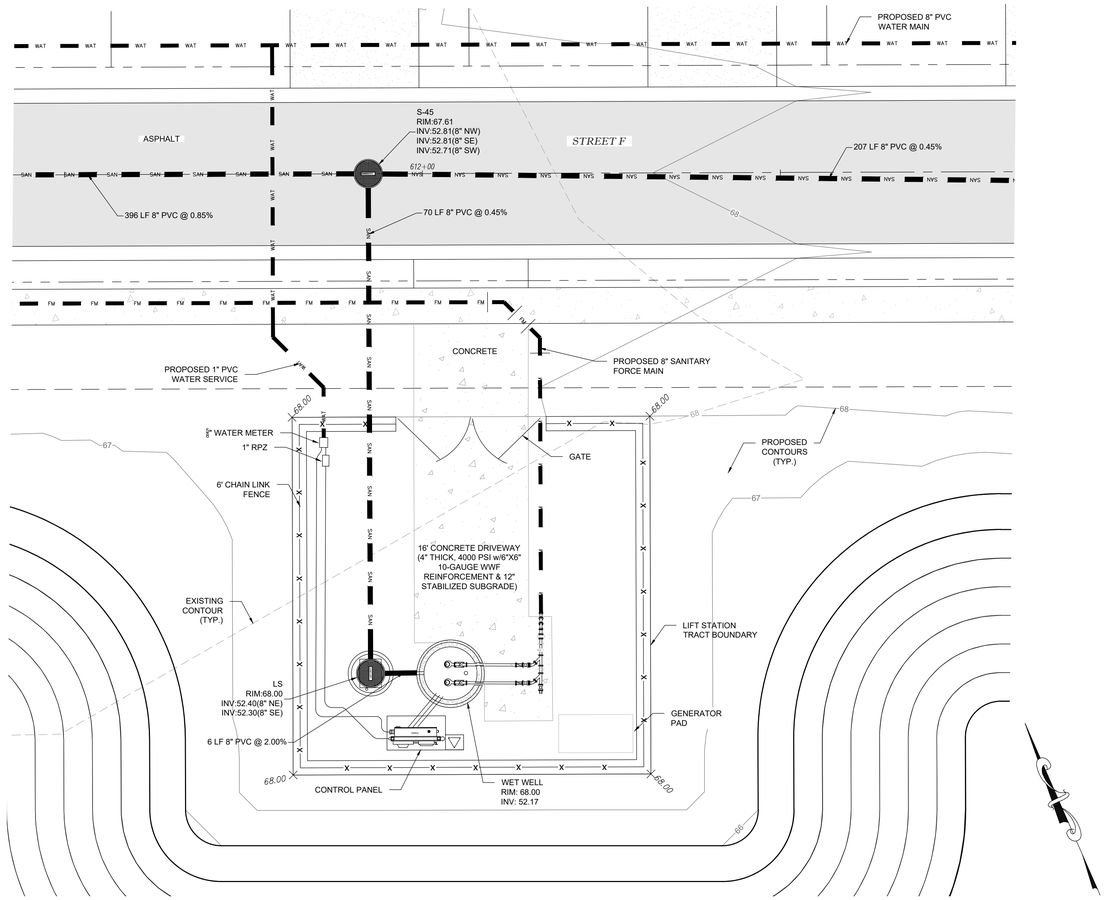
IMPROVEMENT PLAN
WOODRIDGE PLACE
MARION COUNTY, FLORIDA

LIFT STATION PLAN & DETAILS

DATE 7/10/2024
DRAWN BY AS
CHKD. BY JMM
JOB NO. 22-8136

SHT. 12.01

NOT VALID UNLESS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER



LIFT STATION PLAN

LIFT STATION AND ABOVE-GROUND VALVE ARRAY
SCALE: 1"=10'

WASTEWATER PUMP STATION SPECIFICATIONS

GENERAL NOTES:
1. MINIMUM DISTANCE BETWEEN FENCE AND ALL INSTALLED EQUIPMENT SHALL BE 5'.
2. MANHOLE AND WETWELL SHALL HAVE HDPE LINING.
3. AIR RELEASE VALVE DISCHARGE LINE SHALL BE A MINIMUM OF 2" SCHEDULE 80 PVC PIPE.
4. CONDUITS FROM CONTROL PANEL SHALL BE 2" DIAMETER MINIMUM. PRECAST PENETRATIONS SHALL BE 3" MINIMUM. THERE SHALL BE A MINIMUM OF ONE CONDUIT FOR LEVEL CONTROLS. THE NUMBER OF CONDUITS REQUIRED FOR PUMP LEADS WILL BE AS REQUIRED BY THE PUMP MANUFACTURER. CONDUIT PENETRATIONS SHALL BE A MAXIMUM OF 24" FROM THE TOP SLAB OF THE LIFT STATION.
5. PROVIDE FLYGT PUMP STANDARD PACKAGE.
6. 24-HOUR ACCESS TO LIFT STATION SHALL BE PROVIDED TO M.C.U.D.
7. ALL EQUIPMENT PLACEMENT SHALL BE COORDINATED WITH M.C.U.D. IN THE FIELD, THE MAXIMUM NUMBER OF CONDUIT BENDS SHALL BE LESS THAN 270-DEGREES OF TOTAL TURNS.

MANUFACTURER: FLYGT
MODEL: NP.3102.900 18-10-2AS-W
IMP: 135 MM
DIA: N/A
SPEED: 3600 RPM
DISCHARGE SIZE: 3"

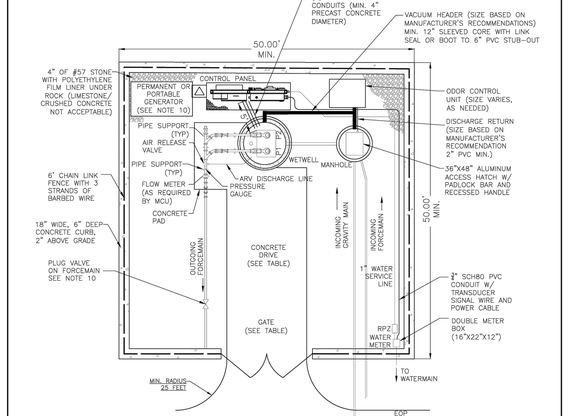
VOLTAGE: 220 V
PHASE: 3
H.P.: 7.2
MAX. SOLID SIZE (3 IN MIN): 3 IN
CURVE NUMBER: N/A

SHUT OFF HEAD: 115.5 FEET TDH
HEAD CONDITION: 210 GPM AT 69 TDH

DESCRIPTION	SYMBOL	DIMENSION	ELEVATION
THICKNESS OF WALL	A	8"	—
DIAMETER OF WET WELL	B	8"	—
WIDTH OF BOTTOM FILLET	C	SEE NOTE 1	—
C/L OF WET WELL TO C/L OF PIPES	D	SEE NOTE 1	—
LENGTH OF PUMP ACCESS OPENING	E	SEE NOTE 1	—
WIDTH OF PUMP ACCESS OPENING	F	SEE NOTE 1	—
CENTER OF WET WELL TO EDGE OF HATCH	G	SEE NOTE 1	—
LIP WIDTH OF WETWELL BASE	R	18"	—
THICKNESS OF WETWELL BASE	S	12"	—
TOP OF WET WELL	T	—	68.00
FINISHED GRADE	U	—	68.00
HIGH LEVEL ALARMS	V	—	50.2
LAG PUMP ON	W	—	49.7
LEAD PUMP ON	X	—	48.7
PUMPS OFF (TOP OF PUMP VOLUTE)	Y	—	46.2
BOTTOM OF PUMP TO FLOOR OF WET WELL	P		—
STEP HEIGHT (IF REQUIRED)	Q		—
FLOOR OF WET WELL	Z	—	45.2

LIFT STATION NOTES:
1. PER PUMP MANUFACTURER'S REQUIREMENTS, DIMENSION P AND ELEVATIONS Y AND Z MUST MEET MANUFACTURER'S REQUIREMENTS.
2. TOP ELEVATION OF WET WELL SHALL BE A MINIMUM OF 1' ABOVE THE 100 YEAR FLOOD ELEVATION AND THE ELEVATION OF THE CROWN OF THE ROAD.
3. SYMBOLS SHOWN IN TABLE ARE USED IN DETAILS UT515 AND UT516.
4. LIGHTNING ARRESTER/SURGE CAPACITOR AND KILL SWITCH SHALL BE PROVIDED.
5. BATTERY BACKUP FOR AUDIBLE ALARM AND WARNING LIGHT SHALL BE PROVIDED.

*DETAIL FOR INFORMATIONAL PURPOSE ONLY. USE SITE PLAN IN LOWER LEFT CORNER FOR ACTUAL LIFT STATION CONFIGURATION



GATE WIDTH TABLE (SEE NOTE 5)		
DISTANCE FROM LIFT STATION FENCE TO ROW	DRIVEWAY WIDTH	GATE WIDTH
<10'	20'	24'
10' TO 15'	18'	22'
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NOTES:
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2. MINIMUM DISTANCE BETWEEN FENCE AND ALL INSTALLED EQUIPMENT SHALL BE 5'.
3. ON-SITE MANHOLE, WETWELL, AND ALL OFF-SITE MANHOLES, WITHIN 400', SHALL BE LINED.
4. ELECTRICAL CONDUIT SIZE WILL VARY WITH PUMP SIZE (MINIMUM 2" PVC).
5. TABLE ASSUMES THE EOP TO THE ROW IS 15'. DISTANCES LESS THAN 15' WILL REQUIRE MCU APPROVAL AND MODIFICATION OF GATE.
6. ARV SIZE TO BE DETERMINED BY THE ENGINEER AND APPROVED BY MCU PRIOR TO INSTALLATION. ENGINEER TO PROVIDE SIZING CALCULATIONS.
7. THE CONCRETE DRIVEWAY SHALL BE 6" THICK WITH 6" X 6" WELDED WIRE FABRIC. THE CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 3,000 PSI. WIDTH OF DRIVEWAY SHALL BE DETERMINED PER GATE WIDTH TABLE.
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10. AS REQUIRED BY FDEP, SIZE VARIES.

Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # 1 | DUPLEX PUMP STATION SITE PLAN WITH ABOVEGROUND VALVE ARRAY | 7.3.2 | UT 514

Marion County Approval Stamp

Tillman & Associates ENGINEERING, LLC.
CIVIL ENGINEERING - PLANNING - LANDSCAPE ARCHITECTURE - ENVIRONMENTAL
1720 SE 16th Ave. Bldg 100, Ocala, FL 34471
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IMPROVEMENT PLAN
WOODRIDGE PLACE
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LIFT STATION
PLAN & DETAILS

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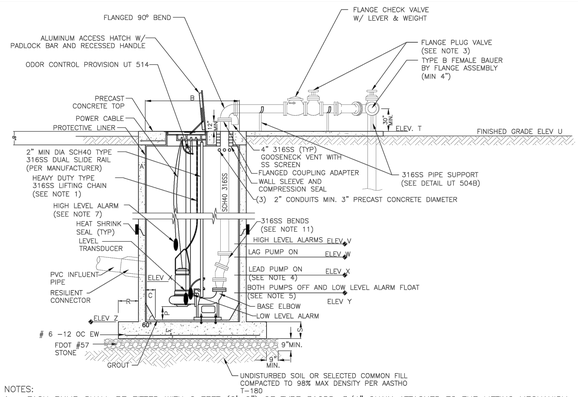

NOTES:
1. EACH PUMP SHALL BE FITTED WITH 6 FEET (6'-0") OF TYPE 316SS, 3/4" CHAIN ATTACHED TO THE LIFTING MECHANISM AND AIRCRAFT RATED 1/4" SS CABLE PROVIDED BETWEEN THE CABLE HOLDER AND THE CHAIN.
2. WALL SLEEVE AND COMPRESSION SEALS SHALL BE COMPATIBLE WITH LINER.
3. ABOVE GROUND PLUG VALVES SHALL BE GEAR OPERATED VERTICAL WHEEL VALVES.
4. ELEVATION X – ELEVATION Z ≥ 5'.
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8. ALL FLANGES: PIPE, VALVES AND APPURTENANCES SHALL HAVE 316SS HARDWARE.
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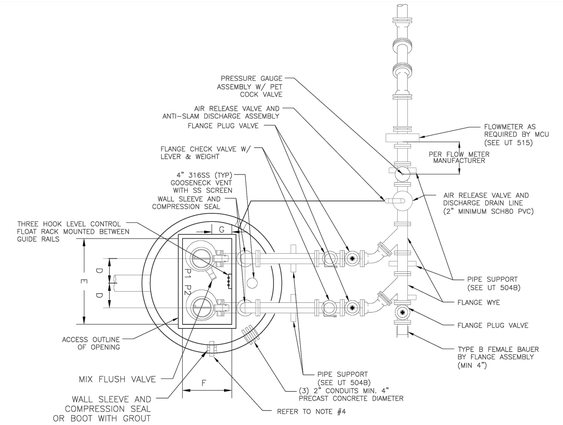
Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # 1 | DUPLEX PUMP STATION SECTION W/ ABOVEGROUND VALVE ARRAY | 7.3.2 | UT 515



N.T.S.

NOTES:
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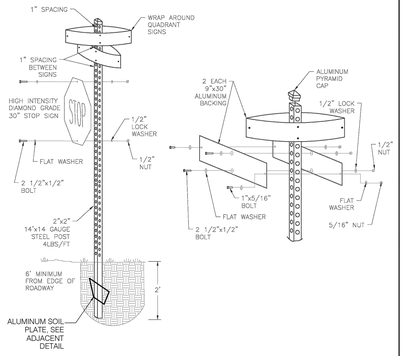
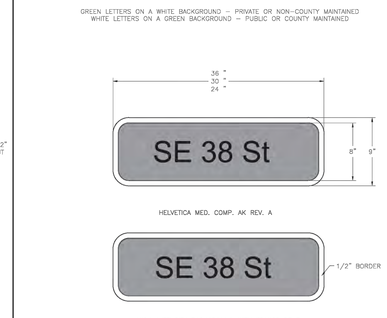
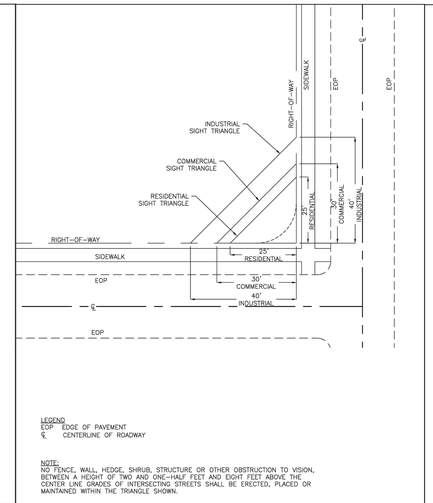
3. PRESSURE GAUGE ASSEMBLY SHALL BE INSTALLED ON THE SPOOL PIECE BETWEEN THE ARV AND THE FLOWMETER.
4. ODOR CONTROL PROVISIONS, SEE DETAIL UT 514. MCU APPROVAL IS REQUIRED PRIOR TO PRECAST INSTALLATION.
5. FLOW METER MUST BE INSTALLED PER MANUFACTURERS SPECIFICATIONS, AS REQUIRED.

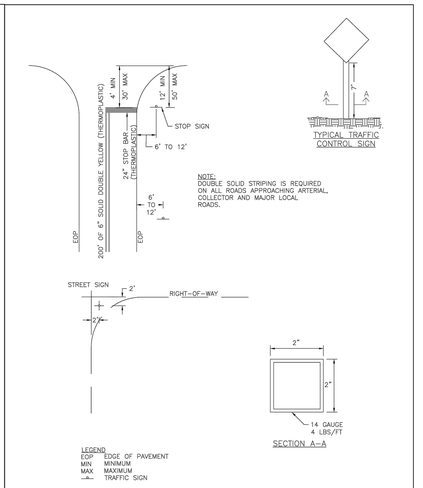
Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # 1 | DUPLEX PUMP STATION PLAN W/ ABOVEGROUND VALVE ARRAY | 7.3.2 | UT 516

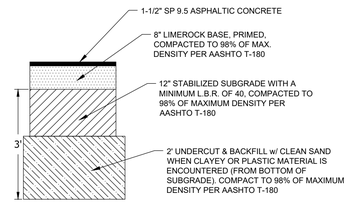
NOT VALID UNLESS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER









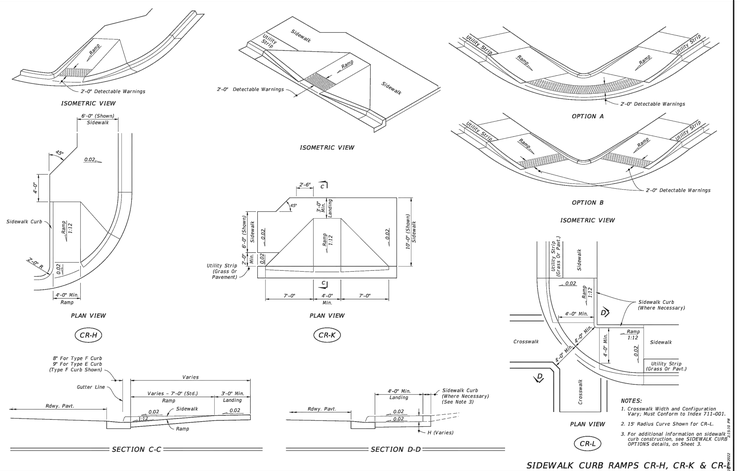


PAVEMENT SECTION
N.T.S

NOTES: CONTRACTOR TO INCORPORATE RECOMMENDATIONS FROM GEOTECHNICAL REPORT.

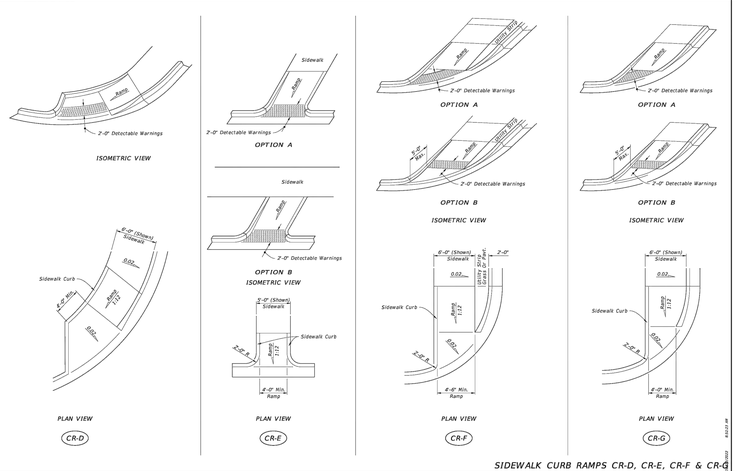
Marion County Approval Stamp

Marion County FLORIDA – OFFICE OF THE COUNTY ENGINEER	MCBCC EFFECTIVE 10/12/2013	REVISION # NA	COMBINED STREET NAME & STOP SIGN INSTALLATION	7.3.1 TS 031
Marion County FLORIDA – OFFICE OF THE COUNTY ENGINEER	MCBCC EFFECTIVE 10/12/2013	REVISION # NA	STREET SIGN	7.3.1 TS 032
Marion County FLORIDA – OFFICE OF THE COUNTY ENGINEER	MCBCC EFFECTIVE 10/12/2013	REVISION # NA	SIGHT TRIANGLE	7.3.1 TS 038
Marion County FLORIDA – OFFICE OF THE COUNTY ENGINEER	MCBCC EFFECTIVE 10/12/2013	REVISION # NA	INTERSECTION SIGN AND STRIPING DETAIL	7.3.1 TS 030



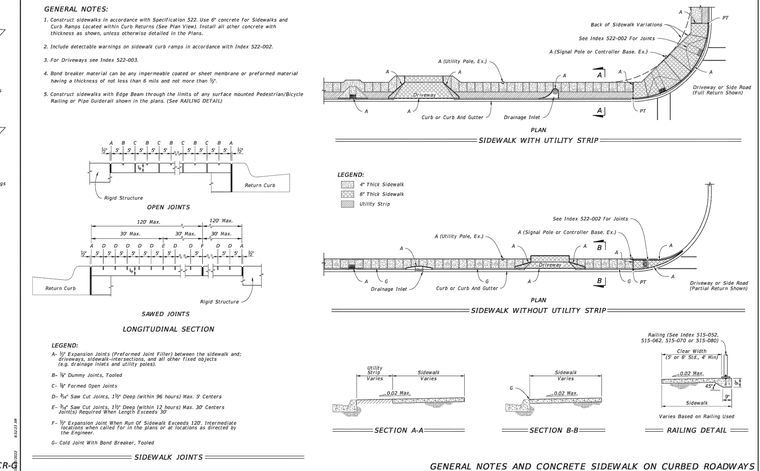
SIDEWALK CURB RAMPS CR-H, CR-K & CR-L

LAST REVISION 11/01/20	DESCRIPTION:	FDOT FY 2023-24 STANDARD PLANS	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS	INDEX 522-002	SHEET 5 of 7



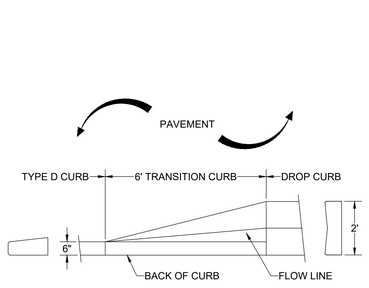
SIDEWALK CURB RAMPS CR-D, CR-E, CR-F & CR-G

LAST REVISION 11/01/21	DESCRIPTION:	FDOT FY 2023-24 STANDARD PLANS	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS	INDEX 522-002	SHEET 4 of 7

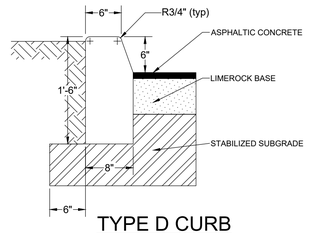


GENERAL NOTES AND CONCRETE SIDEWALK ON CURBED ROADWAYS

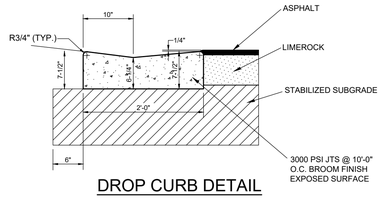
LAST REVISION 11/01/18	DESCRIPTION:	FDOT FY 2023-24 STANDARD PLANS	CONCRETE SIDEWALK	INDEX 522-001	SHEET 1 of 2



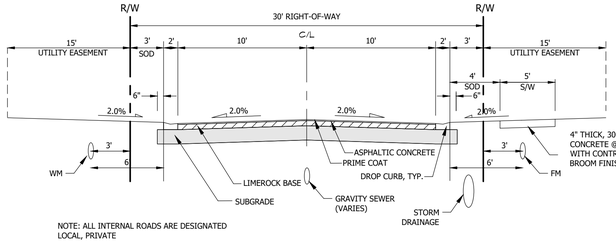
TRANSITION CURB
TYPE D CURB TO DROP CURB
NO SCALE



TYPE D CURB
N.T.S

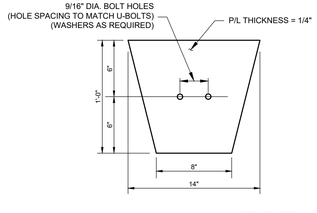


DROP CURB DETAIL
N.T.S



NOTE: ALL INTERNAL ROADS ARE DESIGNATED LOCAL, PRIVATE

30' PRIVATE RIGHT-OF-WAY ROADWAY SECTION
N.T.S



ALUMINUM SOIL PLATE DETAIL
N.T.S

NOTES:
1. ALIGN SOIL PLATE BOTTOM AT 2/3 OF FOUNDATION DEPTH.
2. SLOT UP TO 1" LONG IS ALLOWED TO ACCOMMODATE VARIOUS POST SIZES.
3. RECTANGULAR SOIL PLATE OF SIZE 1'-2"x1'-0" MAY BE USED AS AN ALTERNATIVE.

"ALL CONSTRUCTION COVERED BY THESE PLANS SHALL COMPLY WITH THE MATERIAL REQUIREMENTS AND QUALITY CONTROL STANDARDS CONTAINED IN THE MARION COUNTY LAND DEVELOPMENT CODE."

NOTES:
1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN FROM THE ENGINEER OR OWNER A COPY OF ALL PERTINENT PERMITS RELATED TO THIS PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASSURE THAT ALL CONSTRUCTION ACTIVITIES ARE IN COMPLIANCE WITH THE CONDITIONS OF ALL PERMITS AND APPROVALS.
2. GRASS AND MULCH, OR SOLID SOD, ALL AREAS IN EXISTING RIGHTS-OF-WAY DISTURBED BY CONSTRUCTION.
3. CONTRACTOR IS TO COORDINATE ALL WORK WITHIN, BUT NOT LIMITED TO, THE CITY OF BELLEVIEW RIGHTS-OF-WAY WITH UTILITY COMPANIES IN ORDER TO PREVENT DAMAGE TO UTILITY LINES AND THE MAKING OF ADJUSTMENTS TO SAME, IF REQUIRED.
4. CONTRACTOR SHALL CONTACT THE ENGINEER AND/OR THE OWNER PRIOR TO ANY CONSTRUCTION THAT MAY DAMAGE TREES.

Tillman & Associates ENGINEERING, LLC.
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1720 SE 16th Ave. Bldg 100, Ocala, FL 34471
Office: (352) 387-4540 Fax: (352) 387-4545
CERTIFICATE OF AUTHORIZATION #26756

REVISIONS
DATE

IMPROVEMENT PLANS
WOODRIDGE PLACE
MARION COUNTY, FLORIDA

ROADWAY & PAVEMENT DETAILS

DATE 7/10/2024
DRAWN BY AS
CHKD. BY JMM
JOB NO. 22-8136

SHT. 13.01

NOT VALID UNLESS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER

GENERAL NOTES:
1. Work this Index with Index 425-001 and Index 425-010.
2. Chamfer all exposed edges and corners ¾" chamfer or tooled to ¼" radius.
3. All reinforcing is Grade 60 bars with 2" minimum cover unless otherwise noted. Cut or bend bars for 1½" clearance around pipe opening. Provide one additional #4 bar above and at each side of pipe opening.
4. Use Concrete Apron on inlets without slots and inlets with non-traversable slots only when called for in the Plans.
5. Quantities are for informational and estimating purposes only.

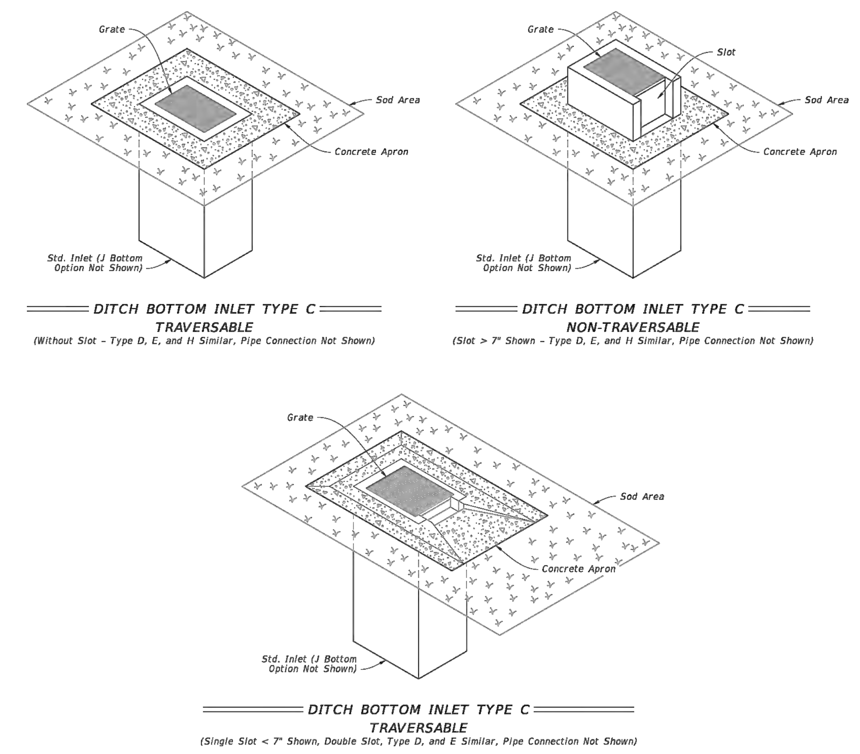
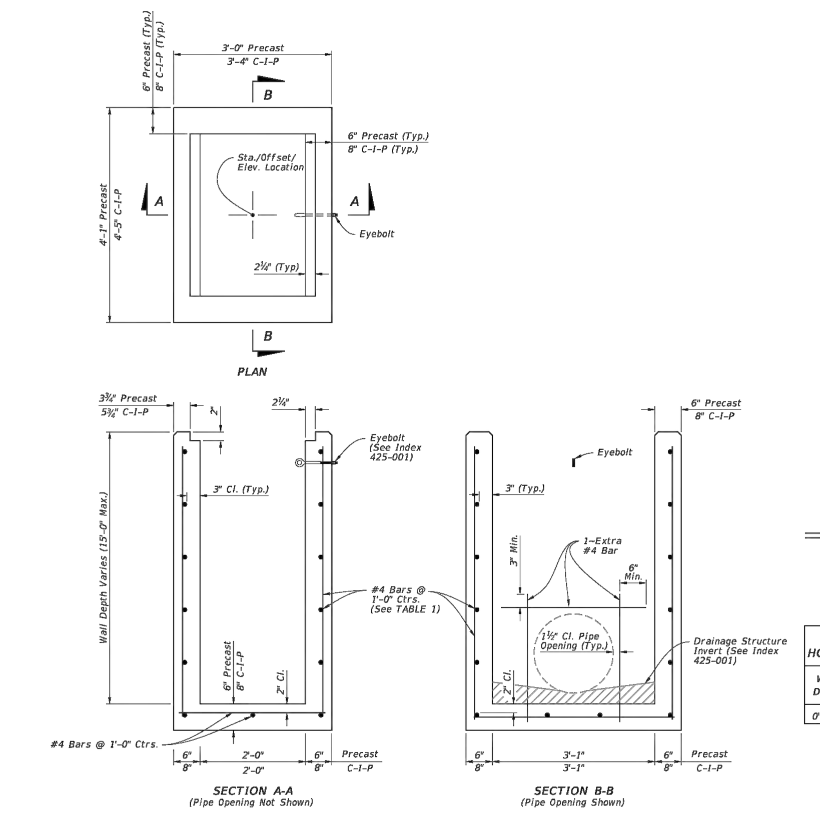


TABLE OF CONTENTS:

Sheet	Description
1	General Notes and Contents
2	Type C - Dimensional, Reinforcing, and Grate Details
3	Type D - Dimensional, Reinforcing, and Grate Details
4	Type E - Dimensional, Reinforcing, and Grate Details
5	Type H (2 & 3 Grate) - Dimensional, Reinforcing, and Steel Grate Details
6	Type H (4 Grate) - Dimensional, Reinforcing, and Steel Grate Details
7	Cast Iron Grate Details
8	Non-Traversable Inlet Details
9	Traversable Inlet Without Slot Details
10	Traversable Inlet With Slot Details
11	Case 1 - Add Traversable Slots to Existing Inlets
12	Case 2 - Add Traversable Slots (Partial) to Existing Inlets
13	Case 3 - Add Traversable Slots (Partial) to Existing Inlets and Ditch Block
14	Alternate A Structure Bottom - Top Slab Details

LAST REVISION	REVISION	DESCRIPTION:			INDEX	SHEET
10/01/20			FDOT FY 2023-24 STANDARD PLANS	DITCH BOTTOM INLET TYPES C, D, E, AND H	425-052	1 of 14



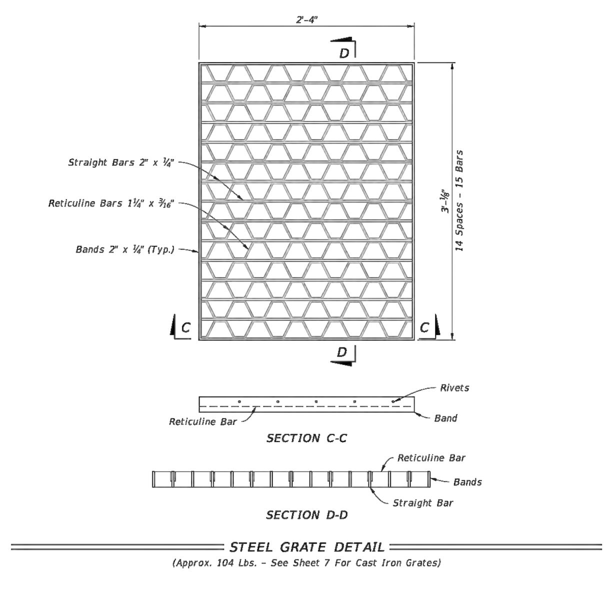


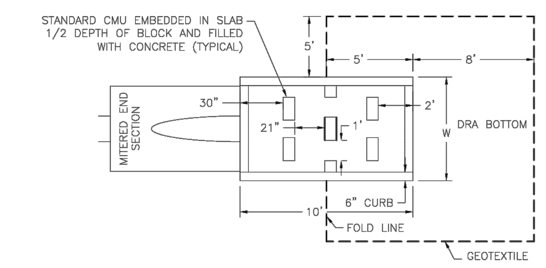
TABLE 1
HORIZONTAL WALL REINFORCING SCHEDULE

WALL DEPTH	SCHEDULE	AREA (in.²/ft.)	MAX. SPACING BARS	MAX. SPACING WWF
0' - 15'	A12	0.20	12"	8"

NOTES:
1. Grate, Concrete Apron, and Sod not shown on structure detail.
2. See Sheet 8, 9, and 10 for Concrete Apron and Sodded Area details.

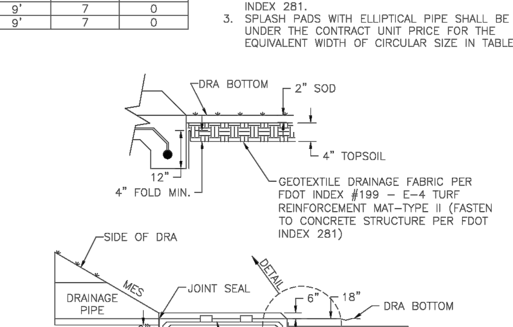
TYPE C - DIMENSIONAL, REINFORCING, AND STEEL GRATE DETAILS

LAST REVISION	REVISION	DESCRIPTION:			INDEX	SHEET
10/01/20			FDOT FY 2023-24 STANDARD PLANS	DITCH BOTTOM INLET TYPES C, D, E, AND H	425-052	2 of 14



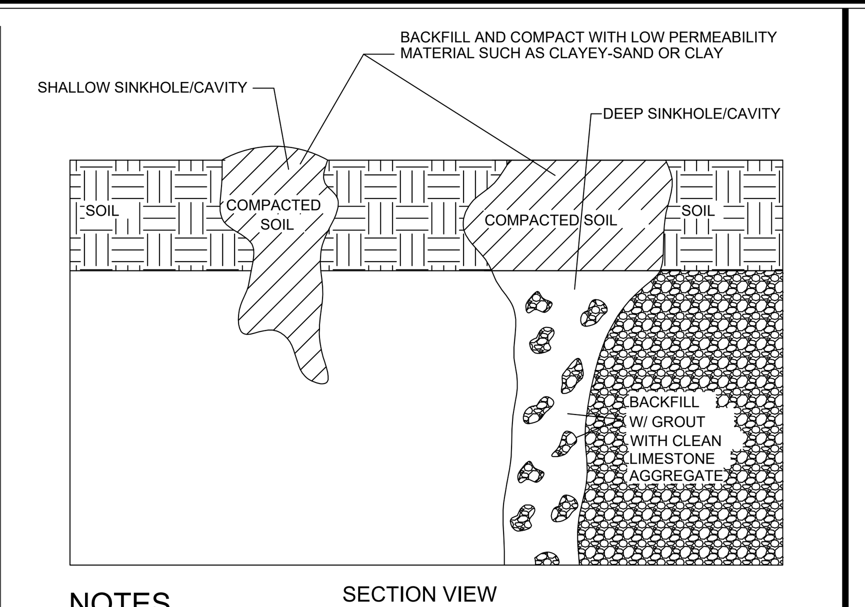
PIPE SIZE	WIDTH	CMU 8 x 16	CMU 8 x 8
15"	6'	3	2
18"	7'	5	0
24"	7'	5	0
30"	8'	5	2
36"	9'	7	0
42"	9'	7	0

NOTES:
1. BLOCK CONFIGURATION VARIES ACCORDING TO PIPE SIZE.
2. GEOTEXTILE, WHEN REQUIRED, SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. FASTEN FABRIC TO CONCRETE STRUCTURE PER FDOT INDEX 281.
3. SPLASH PADS WITH ELLIPTICAL PIPE SHALL BE PAID UNDER THE CONTRACT UNIT PRICE FOR THE EQUIVALENT WIDTH OF CIRCULAR SIZE IN TABLE.



LEGEND
CMU CONCRETE MASONRY UNIT
DRA DRAINAGE RETENTION AREA
MES MITERED END SECTION
MIN MINIMUM

Marion County FLORIDA, OFFICE OF THE COUNTY ENGINEER	MCBCC EFFECTIVE 10/12/2013, REVISION # NA	TYPICAL SPLASH PAD WITH DISSIPATER	7.3.1 / TS 035



SECTION VIEW

NOTES

IN THE EVENT THAT ANY KARST FEATURES SUCH AS SINKHOLES, SOLUTION CAVITIES, CHIMNEYS, ETC. ARE DISCOVERED DURING ROUTINE INSPECTIONS OF THE STORMWATER BASINS, THE FOLLOWING REMEDIATION PROCEDURE SHALL BE PROFORMED

SHALLOW REPAIR (SEE DETAIL):
IF THE COLLAPSE IS SHALLOW (<5' DEEP) AND THE VOIDS IN THE LIMESTONE ARE SMALL, THEN THE SINKHOLE CAN BE REPAIRED BY BACKFILLING WITH A LOWER-PERMIEABILITY MATERIAL, SUCH AS CLAYEY-SAND OR CLAY. THE MATERIAL SHOULD BE COMPACTED AND THE REPAIR SHALL BE SLIGHTLY ABOVE THE ORIGINAL BOTTOM IN ORDER TO CREATE A SMALL MOUND TO ACCOUNT FOR SETTLING

DEEP REPAIR (SEE DETAIL):
IF THE COLLAPSE IS DEEP, THEN THE REPAIR SHALL BE MORE PERMANENT. THE COLLAPSE SHALL BE EXCAVATED TO THE LIMESTONE BEDROCK THE VOID(S) IN THE BEDROCK SHALL BE PLUGGED WITH CLEAN GROUT. A LOW PERMEABILITY MATERIAL SHALL BE PLACED OVER THE CONCRETE PLUG. THE MATERIAL SHALL BE COMPACTED AND BROUGHT TO EXISTING BASIN BOTTOM.

NOTIFICATION:
THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT (SJRWMD) SHALL BE NOTIFIED OF ANY SINKHOLE DEVELOPMENT WITHIN 48 HOURS OF DISCOVERY AND THE PROPOSED METHOD BY WHICH THE SINKHOLE WILL BE REPAIRED SHALL BE SUBMITTED TO THE SJRWMD FOR APPROVAL WITHIN 30 DAYS. THE SJRWMD WILL THEN NOTIFY THE RESPONSIBLE PARTY AS TO THE ACCEPTANCE, DENIAL OR NEED FOR MODIFICATION OF THE REPAIR METHOD.

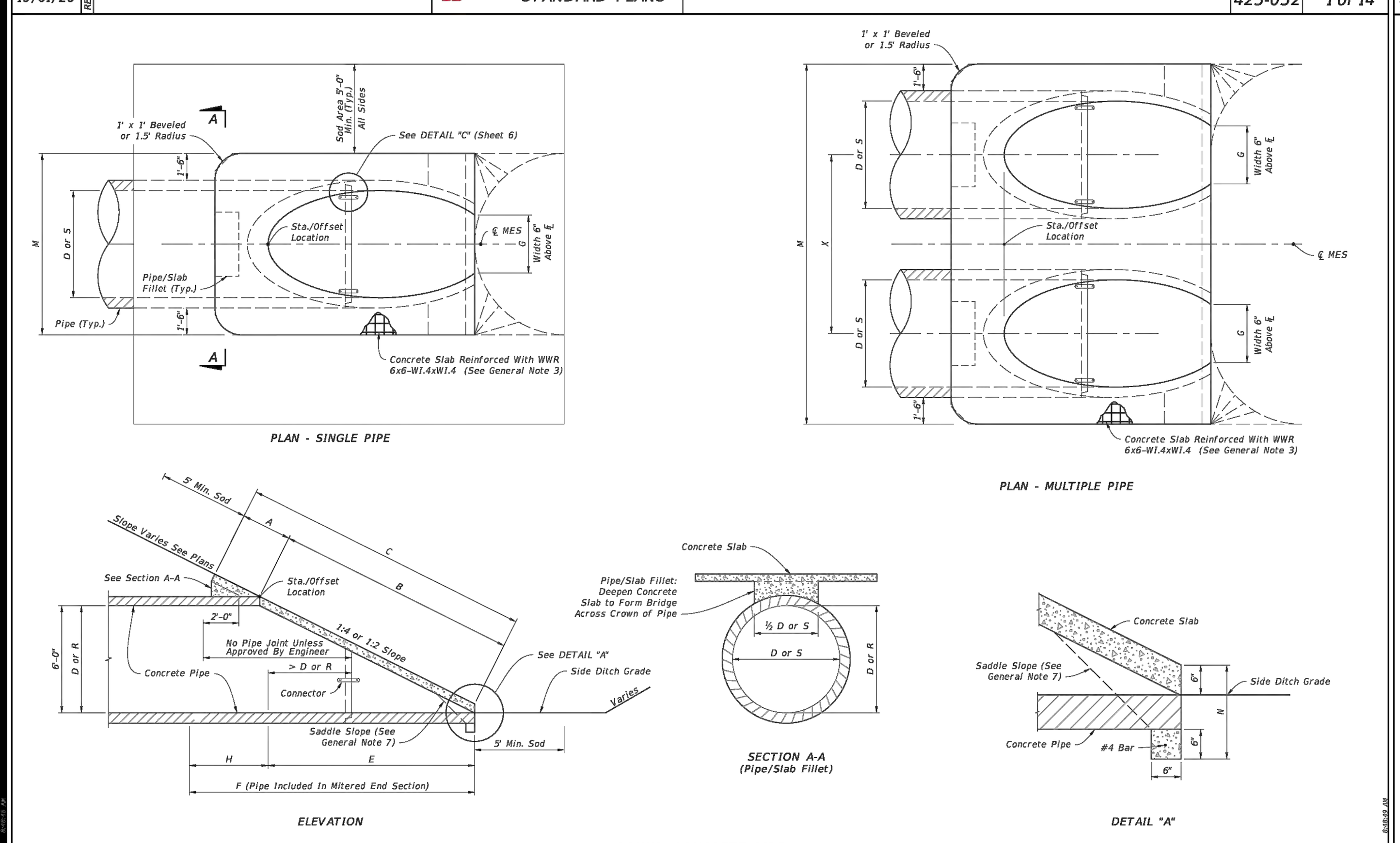
SHALLOW AND DEEP SINKHOLE/CAVITY MAINTENANCE REPAIR DETAIL

N.T.S

Marion County Approval Stamp

Tillman & Associates
ENGINEERING, LLC.
CIVIL ENGINEERING - PLANNING - LANDSCAPE ARCHITECTURE - ENVIRONMENTAL
1720 SE 16th Ave. Bldg 100, Ocala, FL 34471
Office: (352) 387-4540 Fax: (352) 387-4545
CERTIFICATE OF AUTHORIZATION #26756

REVISIONS
DATE



NOTE: See Table 1 on Sheet 3 for Dimensions and Quantities.

SINGLE AND MULTIPLE CONCRETE PIPE

LAST REVISION	REVISION	DESCRIPTION:			INDEX	SHEET
11/01/19			FDOT FY 2023-24 STANDARD PLANS	CROSS DRAIN MITERED END SECTION	430-021	2 of 6

TABLE 1
SINGLE AND MULTIPLE CONCRETE PIPE DIMENSIONS AND QUANTITIES

Pipe	Slope	Dia. D	Rise R	Span S	X	A	B	C	E	F	G	H	M Single Pipe	M Double Pipe	M Triple Pipe	M Quad. Pipe	N
Round Concrete Pipe	1:2 Slope	15"	—	—	2'-7"	1.92'	2.18'	4.10'	2.06'	5'	1.22'	2.9'	4.63'	7.21'	9.79'	12.37'	1.19'
		18"	—	—	2'-10"	1.97'	2.74'	4.71'	2.56'	6'	1.41'	3.4'	4.92'	7.75'	10.58'	13.42'	1.21'
		24"	—	—	3'-5"	2.06'	3.85'	5.91'	3.56'	7'	1.73'	3.4'	5.50'	8.92'	12.33'	15.75'	1.25'
		30"	—	—	4'-3"	2.15'	4.95'	7.10'	4.56'	8'	2.00'	3.4'	6.08'	10.33'	14.58'	18.83'	1.29'
		36"	—	—	5'-1"	2.25'	6.08'	8.33'	5.56'	9'	2.24'	3.4'	6.67'	11.75'	16.83'	21.92'	1.33'
		42"	—	—	6'-0"	2.34'	7.21'	9.55'	6.56'	10'	2.45'	3.4'	7.25'	13.25'	19.25'	25.25'	1.38'
		48"	—	—	6'-9"	2.43'	8.33'	10.76'	7.56'	11'	2.65'	3.4'	7.83'	14.58'	21.33'	28.08'	1.42'
		54"	—	—	7'-8"	2.52'	9.44'	11.96'	8.56'	12'	2.83'	3.4'	8.42'	16.08'	23.75'	31.42'	1.46'
		60"	—	—	8'-6"	2.62'	10.56'	13.18'	9.56'	14'	3.00'	4.4'	9.00'	17.50'	26.00'	34.50'	1.50'
		66"	—	—	9'-2"	2.71'	11.68'	14.39'	10.56'	15'	3.18'	4.4'	9.58'	18.75'	27.92'	37.08'	1.54'
		72"	—	—	10'-0"	2.80'	12.80'	15.60'	11.56'	16'	3.30'	4.4'	10.16'	20.16'	30.16'	40.16'	1.58'
	1:4 Slope	15"	—	—	2'-7"	2.27'	4.09'	6.36'	4.03'	8'	1.22'	4.0'	4.63'	7.21'	9.79'	12.37'	1.19'
		18"	—	—	2'-10"	2.36'	5.12'	7.48'	5.03'	9'	1.41'	4.0'	4.92'	7.75'	10.58'	13.42'	1.21'
		24"	—	—	3'-5"	2.53'	7.18' △	9.71'	7.03' △	11'	1.73'	4.0'	5.50'	8.92'	12.33'	15.75'	1.25'
		30"	—	—	4'-3"	2.70'	9.25'	11.95'	9.03'	13'	2.00'	4.0'	6.08'	10.33'	14.58'	18.83'	1.29'
		36"	—	—	5'-1"	2.87'	11.31' ◇	14.18'	11.03' ◇	15'	2.24'	4.0'	6.67'	11.75'	16.83'	21.92'	1.33'
		42"	—	—	6'-0"	3.05'	13.37'	16.42'	13.03'	17'	2.45'	4.0'	7.25'	13.25'	19.25'	25.25'	1.38'
		48"	—	—	6'-9"	3.22'	15.43'	18.65'	15.03'	19'	2.65'	4.0'	7.83'	14.58'	21.33'	28.08'	1.42'
		54"	—	—	7'-8"	3.39'	17.49'	20.88'	17.03'	21'	2.83'	4.0'	8.42'	16.08'	23.75'	31.42'	1.46'
		60"	—	—	8'-6"	3.56'	19.55'	23.11'	19.03'	23'	3.00'	4.0'	9.00'	17.50'	26.00'	34.50'	1.50'
		66"	—	—	9'-2"	3.73'	21.62'	25.35'	21.03'	25'	3.18'	4.0'	9.58'	18.75'	27.92'	37.08'	1.54'
		72"	—	—	10'-0"	3.91'	23.68'	27.59'	23.03'	27'	3.30'	4.0'	10.16'	20.16'	30.16'	40.16'	1.58'
Elliptical Concrete Pipe	1:2 Slope	—	12"	18"	2'-10"	1.97'	1.62'	3.59'	1.56'	4'	1.50'	2.4'	4.92'	7.75'	10.58'	13.42'	1.21'
		—	14"	23"	3'-4"	2.01'	1.99'	4.00'	1.89'	5'	1.90'	3.1'	5.38'	8.71'	12.04'	15.38'	1.23'
		—	19"	30"	4'-0"	2.11'	2.92'	5.03'	2.73'	6'	2.37'	3.3'	6.04'	10.04'	14.04'	18.04'	1.27'
		—	24"	38"	5'-0"	2.20'	3.85'	6.05'	3.56'	7'	2.85'	3.4'	6.79'	11.79'	16.79'	21.79'	1.31'
		—	29"	45"	5'-11"	2.34'	4.79'	7.13'	4.39'	8'	3.19'	3.6'	7.50'	13.42'	19.33'	25.25'	1.38'
		—	34"	53"	7'-0"	2.43'	5.72'	8.15'	5.23'	9'	3.57'	3.8'	8.25'	15.25'	22.25'	29.25'	1.42'
		—	38"	60"	7'-10"	2.52'	6.46'	8.98'	5.89'	9'	3.95'	3.1'	8.92'	16.75'	24.58'	32.42'	1.46'
		—	43"	68"	8'-11"	2.62'	7.39'	10.01'	6.73'	10'	4.28'	3.3'	9.67'	18.58'	27.50'	36.42'	1.50'
		—	48"	76"	9'-11"	2.71'	8.33'	11.04'	7.56'	11'	4.59'	3.4'	10.42'	20.33'	30.25'	40.17'	1.54'
		—	53"	83"	10'-8"	2.80'	9.26'	12.06'	8.39'	12'	4.77'	3.6'	11.08'	21.75'	32.42'	43.08'	1.58'
		—	58"	91"	11'-8"	2.90'	10.19'	13.09'	9.23'	13'	5.01'	3.8'	11.83'	23.50'	35.17'	46.83'	1.63'
	1:4 Slope	—	12"	18"	2'-10"	2.36'	3.06'	5.42'	3.03'	5'	1.50'	2.0'	4.92'	7.75'	10.58'	13.42'	1.21'
		—	14"	23"	3'-4"	2.44'	3.75'	6.19'	3.70'	6'	1.90'	2.3'	5.38'	8.71'	12.04'	15.38'	1.23'
		—	19"	30"	4'-0"	2.62'	5.47'	8.09'	5.36'	8'	2.37'	2.6'	6.04'	10.04'	14.04'	18.04'	1.27'
		—	24"	38"	5'-0"	2.79'	7.18'	9.97'	7.03'	10'	2.85'	3.0'	6.79'	11.79'	16.79'	21.79'	1.31'
		—	29"	45"	5'-11"	3.05'	8.90'	11.95'	8.70'	12'	3.19'	3.3'	7.50'	13.42'	19.33'	25.25'	1.38'
		—	34"	53"	7'-0"	3.22'	10.62'	13.84'	10.36'	13'	3.57'	2.6'	8.25'	15.25'	22.25'	29.25'	1.42'
		—	38"	60"	7'-10"	3.39'	11.99'	15.38'	11.70'	15'	3.95'	3.3'	8.92'	16.75'	24.58'	32.42'	1.46'
		—	43"	68"	8'-11"	3.56'	13.71'	17.27'	13.36'	17'	4.28'	3.6'	9.67'	18.58'	27.50'	36.42'	1.50'
		—	48"	76"	9'-11"	3.73'	15.43'	19.16'	15.03'	19'	4.59'	4.0'	10.42'	20.33'	30.25'	40.17'	1.54'
		—	53"	83"	10'-8"	3.91'	17.15'	21.06'	16.70'	20'	4.77'	3.3'	11.08'	21.75'	32.42'	43.08'	1.58'
		—	58"	91"	11'-8"	4.08'	18.87'	22.95'	18.36'	22'	5.01'	3.6'	11.83'	23.50'	35.17'	46.83'	1.63'

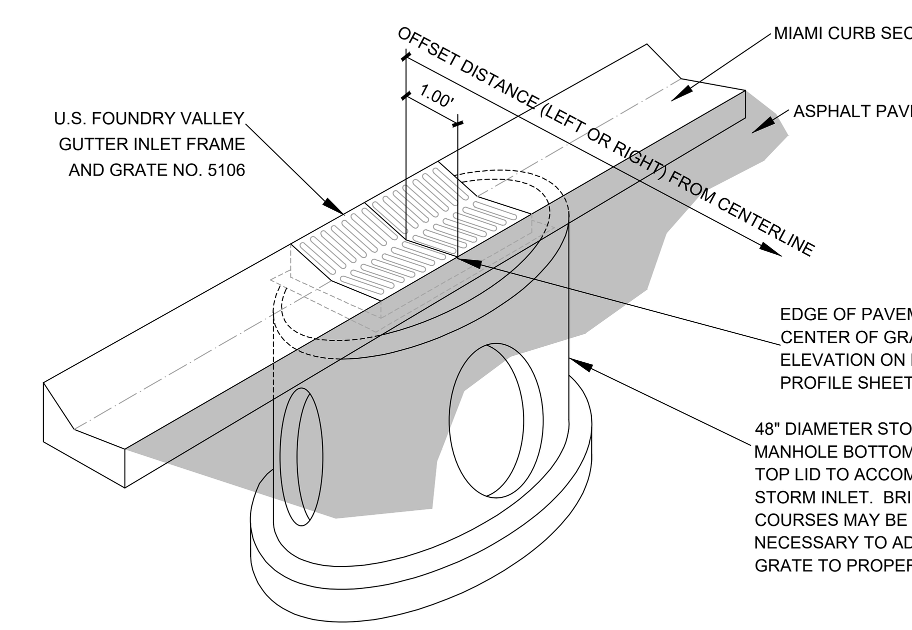
Pipe	Slope	Dia. D	Rise R	Span S	5½" CONC. SLAB (CY) (See General Note 3) Single Pipe	Double Pipe	Triple Pipe	Quad. Pipe	3" CONC. SLAB (CY) (See General Note 3) Single Pipe	Double Pipe	Triple Pipe	Quad. Pipe	SODDING (SY) Single Pipe	Double Pipe	Triple Pipe	Quad. Pipe
Round Concrete Pipe	1:2 Slope	15"	—	—	0.38	0.58	0.77	0.96	0.27	0.41	0.54	0.67	21	24	27	30
		18"	—	—	0.44	0.65	0.87	1.09	0.31	0.45	0.60	0.75	22	25	28	31
		24"	—	—	0.54	0.83	1.12	1.42	0.39	0.59	0.79	1.00	24	28	32	35
		30"	—	—	0.66	1.09	1.50	1.91	0.46	0.76	1.04	1.32	26	31	35	40
		36"	—	—	0.81	1.38	1.95	2.51	0.55	0.94	1.33	1.71	28	34	39	45
		42"	—	—	0.97	1.70	2.45	3.19	0.66	1.15	1.66	2.15	30	37	43	50
		48"	—	—	1.13	2.04	2.93	3.84	0.76	1.37	1.96	2.57	32	39	47	54
		54"	—	—	1.31	2.44	3.58	4.72	0.87	1.62	2.38	3.14	34	42	51	59
		60"	—	—	1.51	2.89	4.28	5.68	0.99	1.90	2.81	3.73	36	45	55	64
		66"	—	—	1.68	3.25	4.84	6.43	1.11	2.15	3.21	4.27	38	48	58	68
		72"	—	—	1.89	3.74	5.59	7.45	1.24	2.46	3.68	4.90	40	51	62	73
	1:4 Slope	15"	—	—	0.57	0.87	1.15	1.44	0.40	0.61	0.80	1.00	23	26	29	32
		18"	—	—	0.66	0.99	1.31	1.65	0.47	0.69	0.91	1.14	25	28	31	35
		24"	—	—	0.85	1.30	1.75	2.20	0.60	0.90	1.21	1.52	28	32	36	40
		30"	—	—	1.10	1.74	2.39	3.05	0.76	1.19	1.63	2.07	31	36	41	46
		36"	—	—	1.32	2.21	3.08	3.96	0.89	1.48	2.05	2.63	34	40	46	52
		42"	—	—	1.58	2.76	3.91	5.09	1.05	1.82	2.57	3.34	38	44	51	58
		48"	—	—	1.85	3.30	4.73	6.17	1.21	2.15	3.07	4.00	41	48	56	63
		54"	—	—	2.14	3.95	5.77	7.58	1.39	2.55	3.72	4.88	44	52	61	69
		60"	—	—	2.45	4.66	6.87	9.07	1.59	3.02	4.44	5.86	47	56	66	75
		66"	—	—	2.88	5.54	8.18	10.84	1.91	3.66	5.40	7.15	49	59	69	80
		72"	—	—	3.54	6.61	9.87	13.13	2.12	4.18	6.24	8.30	52	63	74	85
Elliptical Concrete Pipe	1:2 Slope	—	12"	18"	0.30	0.49	0.67	0.85	0.19	0.33	0.45	0.57	21	24	27	30
		—	14"	23"	0.37	0.59	0.81	1.02	0.25	0.40	0.55	0.69	22	26	29	33
		—	19"	30"	0.50	0.80	1.09	1.39	0.34	0.55	0.75	0.95	24	28	33	37
		—	24"	38"	0.62	1.03	1.45	1.86	0.43	0.71	1.00	1.28	26	31	37	42
		—	29"	45"	0.75	1.30	1.84	2.39	0.52	0.90	1.27	1.65	28	34	41	47
		—	34"	53"	0.90	1.61	2.32	3.03	0.62	1.11	1.60	2.09	30	37	45	53
		—	38"	60"	1.03	1.89	2.74	3.60	0.70	1.29	1.87	2.46	31	40	49	57
		—	43"	68"	1.19	2.26	3.33	4.40	0.81	1.54	2.26	2.99	33	43	53	63
		—	48"	76"	1.38	2.65	3.93	5.21	0.93	1.79	2.66	3.53	35	46	57	68
		—	53"	83"	1.55	3.03	4.50	5.96	1.04	2.04	3.03	4.02	37	49	61	73
		—	58"	91"	1.75	3.47	5.20	6.93	1.17	2.33	3.49	4.66	39	52	65	78
	1:4 Slope	—	12"	18"	0.45	0.68	0.92	1.14	0.30	0.45	0.61	0.76	23	26	29	32
		—	14"	23"	0.53	0.83	1.13	1.42	0.36	0.56	0.76	0.95	24	28	32	35
		—	19"	30"	0.74	1.15	1.57	1.98	0.51	0.79	1.08	1.36	27	32	36	40
		—	24"	38"	0.97	1.57	2.19	2.81	0.68	1.10	1.53	1.96	30	36	41	47
		—	29"	45"	1.22	2.07	2.92	3.77	0.86	1.45	2.04	2.63	33	40	46	53
		—	34"	53"	1.48	2.62	3.77	4.92	1.02	1.81	2.60	3.39	36	44	52	59
		—	38"	60"	1.72	3.12	4.53	5.92	1.18	2.14	3.10	4.05	38	47	56	65
		—	43"	68"	2.02	3.78	5.56	7.32	1.38	2.58	3.79	4.99	41	51	61	71
		—	48"	76"	2.34	4.49	6.64	8.79	1.59	3.05	4.51	5.97	44	55	66	77
		—	53"	83"	2.66	5.17	7.66	10.16	1.80	3.50	5.19	6.88	47	59	71	83
		—	58"	91"	3.02	5.98	8.95	11.90	2.04	4.04	6.05	8.05	50	63	76	89

B △ 6.42' E △ 6.25' Dimensions permitted to allow use of 8' standard pipe lengths.

B ◇ 10.40' E ◇ 10.10' Dimensions permitted to allow use of 12' standard pipe lengths.

CONCRETE PIPE DIMENSIONS AND QUANTITIES

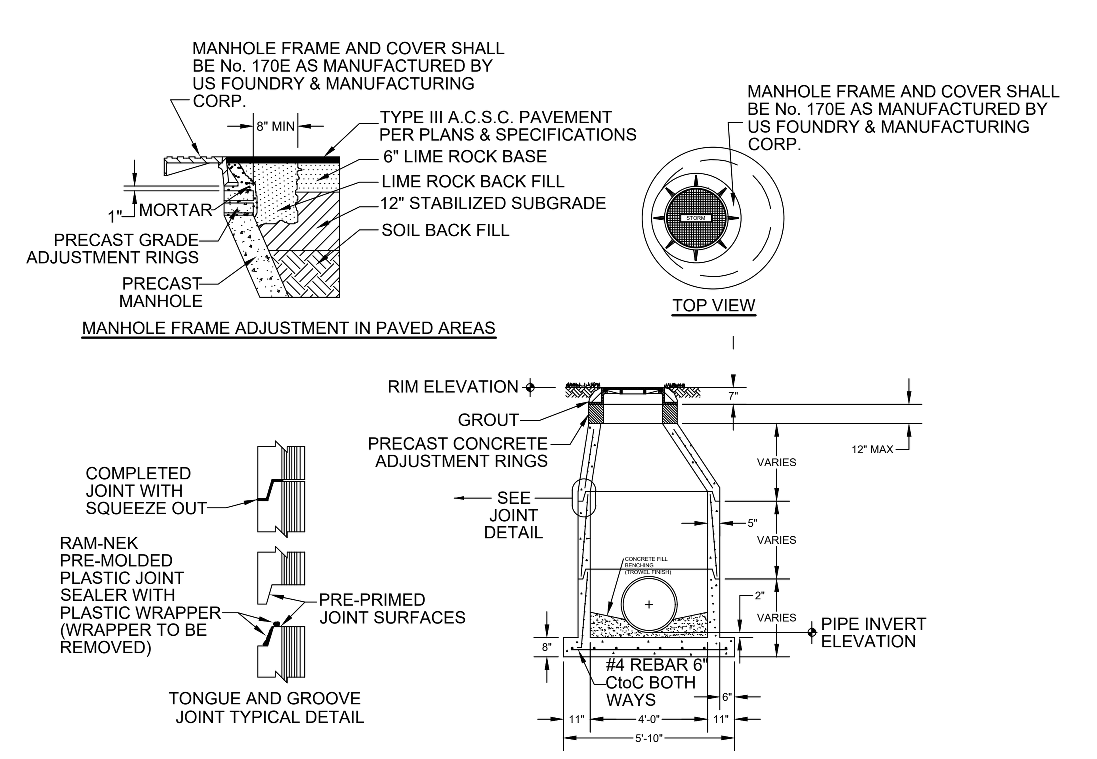
LAST REVISION	REVISION	DESCRIPTION:			INDEX	SHEET
11/01/19			FDOT FY 2023-24 STANDARD PLANS	CROSS DRAIN MITERED END SECTION	430-021	3 of 6



VALLEY GUTTER INLET FRAME AND GRATE DETAIL

GENERAL NOTES

1. THE FINISHED GRADE AND SLOPE OF THE INLET TOPS ARE TO CONFORM WITH THE FINISHED CROSS SLOPE AND GRADE OF THE PROPOSED ROADWAY.
2. WHEN INLETS ARE TO BE CONSTRUCTED ON A CURVE, REFER TO THE PLANS TO DETERMINE THE RADIUS AND, WHERE NECESSARY, MODIFY THE INLET DETAILS ACCORDINGLY. BEND STEEL WHEN NECESSARY.
3. ALL REINFORCING STEEL SHALL HAVE 1-1/4" MINIMUM COVER UNLESS OTHERWISE SHOWN. INLET TOPS SHALL BE EITHER CAST-IN-PLACE OR PRECAST CONCRETE.
4. PRECASTING OF THIS INLET TOP WILL BE PERMITTED. PRECAST UNITS SHALL CONFORM TO THE DIMENSIONS SHOWN OR IN ACCORDANCE WITH APPROVED SHOP DRAWINGS. REQUEST FOR SHOP DRAWING APPROVAL SHALL BE DIRECTED TO THE STATE DRAINAGE ENGINEER.
5. CONCRETE MEETING THE REQUIREMENTS OF A.S.T.M. C 478 (4,000 P.S.I.) MAY BE USED IN LIEU OF CLASS ~ CONCRETE FOR PRECAST UNITS, MANUFACTURED IN PLANTS WHICH ARE UNDER THE STANDARD OPERATING PROCEDURES FOR THE INSPECTION OF PRECAST DRAINAGE PRODUCTS.
6. THE CORNER FILLETS SHOWN FOR RECTANGULAR THROATS ARE NECESSARY ONLY WHEN THROATS ARE TO BE USED IN CONJUNCTION WITH CIRCULAR INLET BOTTOMS OR WHEN USED ON SKEW WITH RECTANGULAR INLET BOXES.
7. FOR INLET BOTTOMS SEE INDEX NO. 200.
8. THESE INLET TOPS ARE DESIGNED FOR USE WITH STANDARD CURB AND GUTTER TYPE E AND TYPE F. LOCATE OUTSIDE OF PEDESTRIAN CROSSWALK WHERE PRACTICAL.
9. SEE INDEX 201 FOR SUPPLEMENTAL DETAILS.
10. ALL STEEL USED FOR FRAME AND COVER SHALL MEET THE REQUIREMENTS OF ASTM A-36.
11. EITHER CAST IRON COVERS OR STEEL COVERS MAY BE USED. IRON COVERS SHALL BE CLASS NO. 30 CASTINGS IN ACCORDANCE WITH ASTM A-48.
12. WHEN ALTERNATE "G" COVER IS SPECIFIED IN PLANS EITHER THE CAST IRON COVER AND GALVANIZED STEEL FRAME OR THE THE GALVANIZED STEEL COVER AND FRAME MUST BE USED. COVERS ARE TO BE GROUTED IN ACCORDANCE WITH THE GROUTING DETAIL SHOWN ON SHEET 2 OF 2, IN LIEU OF TACK WELDING.

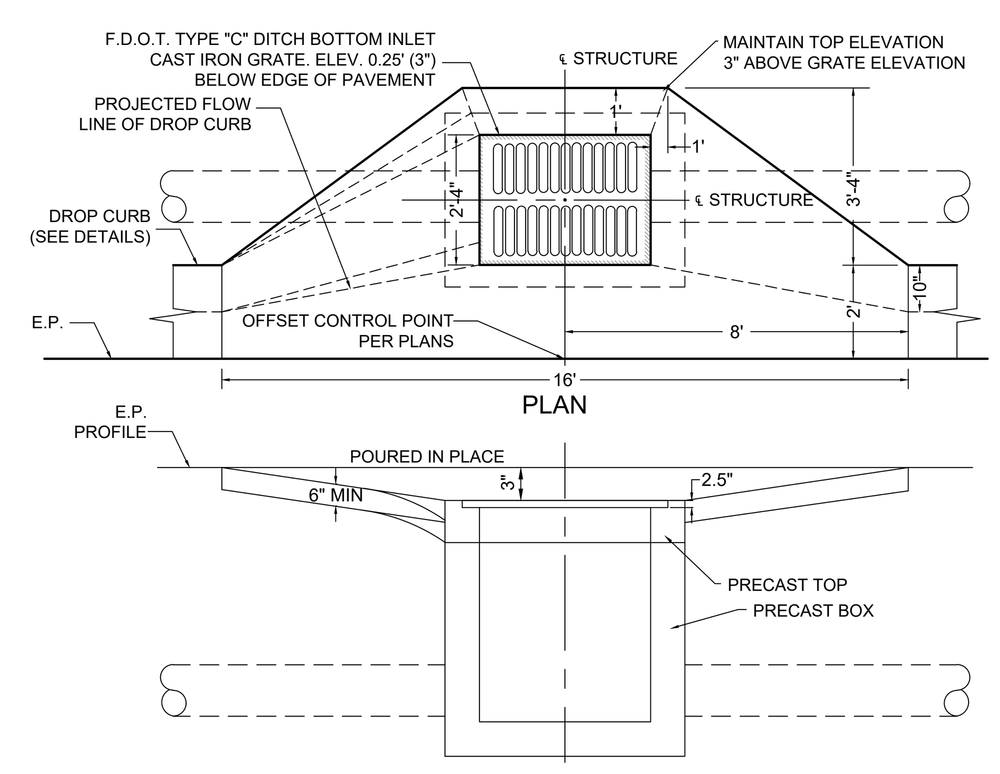


\- MANHOLE NOTES -
1. SEAL ALL PIPE OPENINGS IN PRECAST MANHOLE WITH "EMBECO" NON-SHRINK GROUT OR APPROVED EQUAL.
2. MANHOLE COVERS SHALL BE CLEANED AND PAINTED WITH BLACK RUST-INHIBITING PAINT.
3. SET COVERS FLUSH IN PAVED AREAS. 0.1' ABOVE GRADE IN UNPAVED AREAS, AND 0.75' BELOW GRADE IN GRADED AREAS

\- ALTERNATE PRECAST MANHOLE TOPS -
1. APPROVE CONCENTRIC CONE DESIGN MAY BE USED AS AN ALTERNATIVE.
2. APPROVED FLAT SLAB TOP MAY BE USED AS AN ALTERNATE.

DRAINAGE PRECAST MANHOLE DETAIL

N.T.S

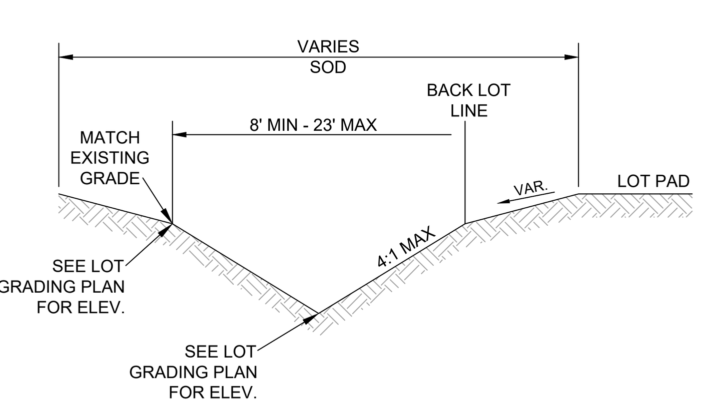


NOTE:

1. THIS STRUCTURE SHALL BE A TYPE "C" GRATE INLET MOUNTED ON A BOX SIZED BY THE PRECAST COMPANY BASED ON THE SIZE OF THE PIPES SERVED. THE BASE SHALL HAVE A COMPLETE CONCRETE PRECAST CAP WITH POUR IN PLACE CONCRETE PROVIDED TO DIVERT ALL FLOWS TO THE GRATE OPENING.
2. ALL POURED-IN-PLACE CONCRETE SHALL BE 3000 PSI AT 28 DAYS.

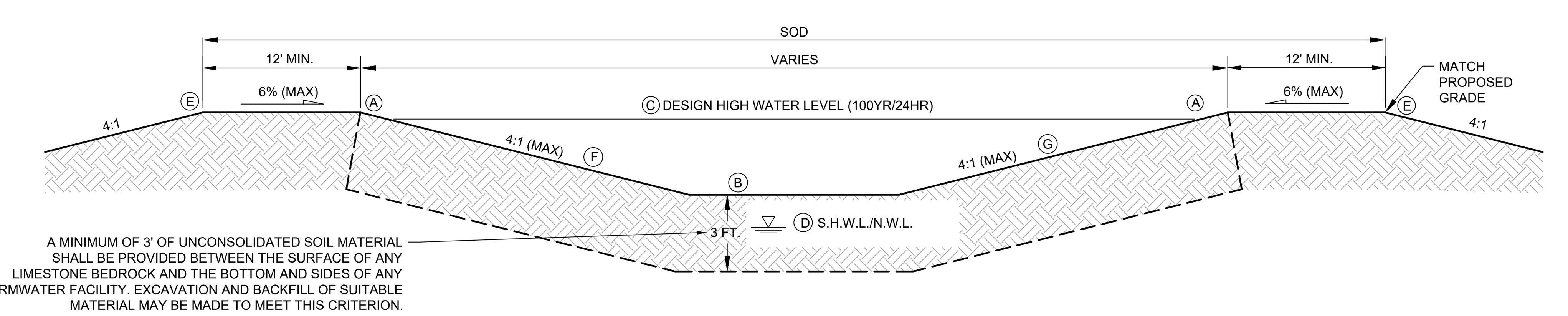
DROP CURB INLET

N.T.S



TYPICAL DRAINAGE SWALE SECTION

N.T.S



A MINIMUM OF 3' OF UNCONSOLIDATED SOIL MATERIAL SHALL BE PROVIDED BETWEEN THE SURFACE OF ANY LIMESTONE BEDROCK AND THE BOTTOM AND SIDES OF ANY STORMWATER FACILITY. EXCAVATION AND BACKFILL OF SUITABLE MATERIAL MAY BE MADE TO MEET THIS CRITERION.

POND	T.O.B.(FT) (A)	BOTTOM (FT) (B)	DHWL(FT) (C) 100-YR 24-HR	SHWL*(FT) (D)	(E)	SIDE SLOPE (F)	SIDE SLOPE (G)
DRA 1	76.0	71.0	75.27	60.25	MATCH PROPOSED GRADE	4:1 MAX	4:1 MAX
DRA 2	62.0	56.0	59.83	49.83	MATCH PROPOSED GRADE	4:1 MAX	4:1 MAX
DRA 3	62.0	56.0	59.83	55.50	MATCH PROPOSED GRADE	4:1 MAX	4:1 MAX
DRA 4	66.0	60.0	64.36	56.88	MATCH PROPOSED GRADE	4:1 MAX	4:1 MAX
DRA 5	66.0	60.0	64.35	54.25	MATCH PROPOSED GRADE	4:1 MAX	4:1 MAX
DRA 6	66.0	60.0	62.66	53.00	MATCH PROPOSED GRADE	4:1 MAX	4:1 MAX

SOD ALL SLOPES AND BOTTOM WITH FLORIDA FRIENDLY NON-MUCK GROWN SOD

POND CROSS-SECTIONS

N.T.S

IMPROVEMENT PLANS
WOODRIDGE PLACE
MARION COUNTY, FLORIDA

DRAINAGE DETAILS

DATE 6/14/2024
DRAWN BY AS
CHKD. BY JMM
JOB NO. 22-8136

SHT. 14.01

S:\Marion County\Harvey Vandeven, Summerbrooke Estates nka Woodland Place, NKA Woodridge Place\CIVIL\CONSTRUCTION\14 Drainage_Details.dwg 7/10/2024 1:57:40 PM

NOT VALID UNLESS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER

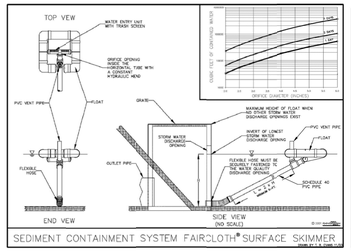
120' 60' 0 120' 240'

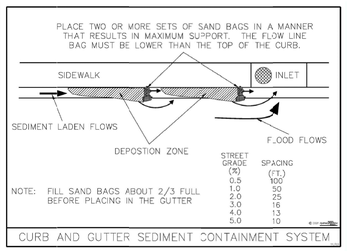
SCALE IN FEET
1" = 120'

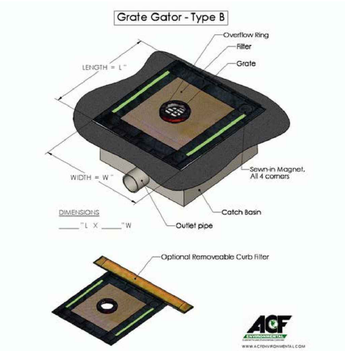
EROSION CONTROL LEGEND

PROJECT BOUNDARY

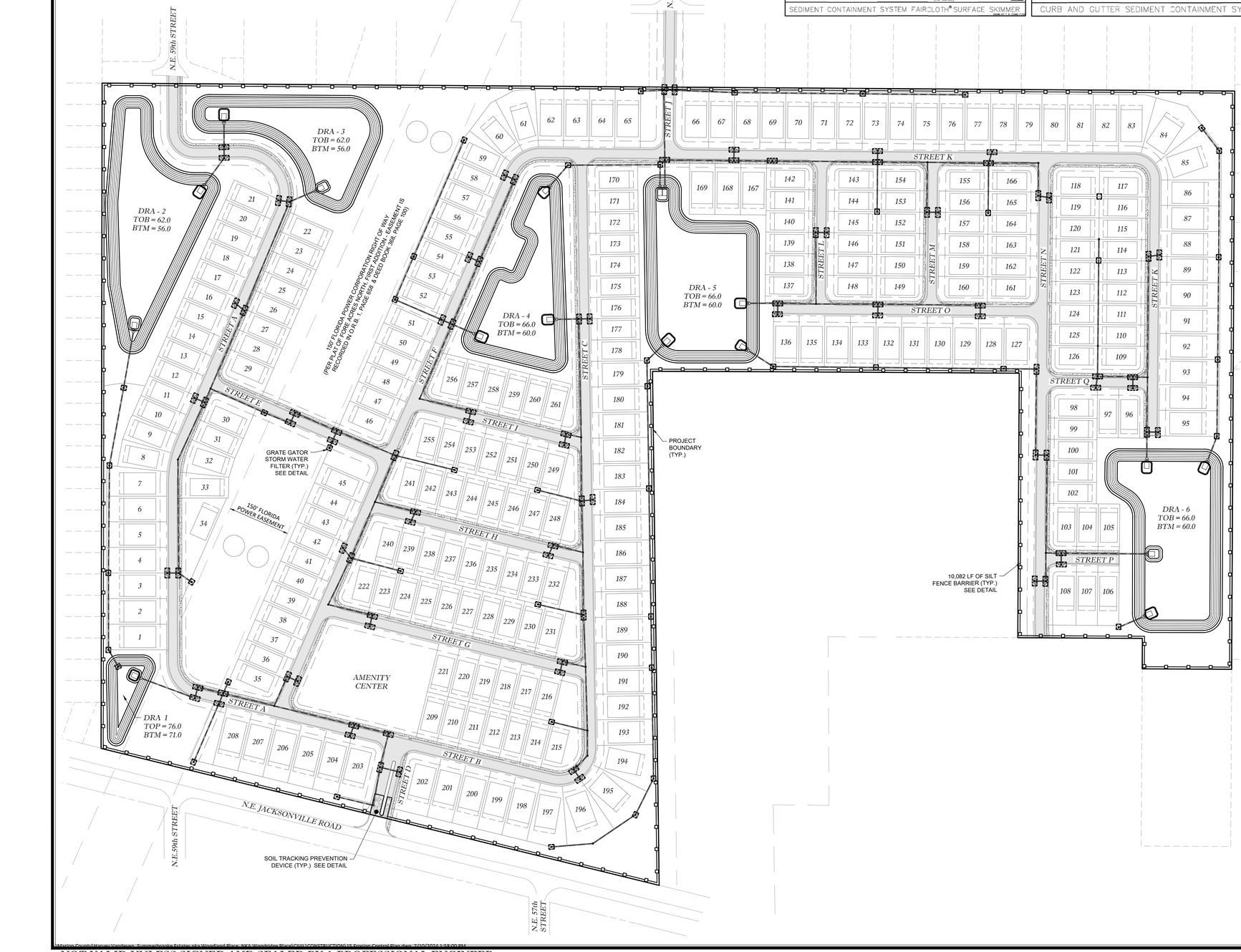
PROPOSED SILT FENCE

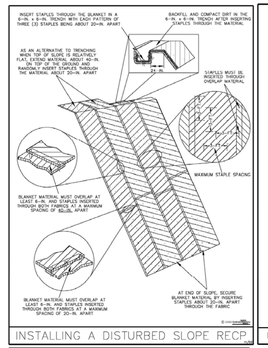


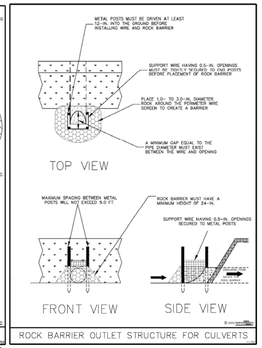


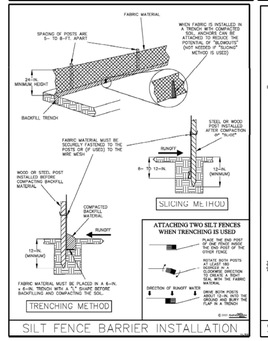


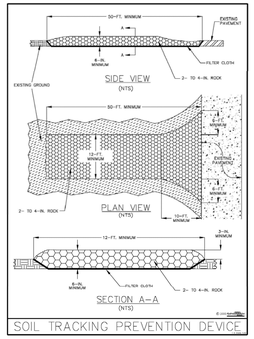
Marion County Approval Stamp











GENERAL NOTES:

1. THE FOLLOWING LIST REPRESENTS A BASIC EROSION AND SEDIMENT CONTROL PROGRAM WHICH IS TO BE IMPLEMENTED TO HELP PREVENT OFF SITE SEDIMENTATION DURING AND AFTER CONSTRUCTION OF THE PROJECT.
2. TEMPORARY EROSION CONTROL TO BE UTILIZED DURING CONSTRUCTION AT AREAS DESIGNATED BY THE ENGINEER OR AREAS ON SITE WHERE UNSTABILIZED GRADES MAY CAUSE EROSION PROBLEMS. EROSION CONTROL MAY BE REMOVED AFTER UPSLOPE AREA HAS BEEN STABILIZED BY SOD, OR COMPACTED AS DETERMINED BY THE OWNER.
3. PERMANENT EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AT THE EARLIEST PRACTICAL TIME CONSISTENT WITH GOOD CONSTRUCTION PRACTICES. ONE OF THE FIRST CONSTRUCTION ACTIVITIES SHOULD BE THE PLACEMENT OF PERMANENT AND TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AROUND THE PERIMETER OF THE PROJECT OR THE INITIAL WORK AREA TO PROTECT THE PROJECT, ADJACENT PROPERTIES AND WATER RESOURCES.
4. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE COORDINATED WITH PERMANENT MEASURES TO ASSURE ECONOMICAL, EFFECTIVE AND CONTINUOUS CONTROL THROUGHOUT THE CONSTRUCTION PHASE. TEMPORARY MEASURES SHALL NOT BE CONSTRUCTED FOR EXPEDIENCY IN LIEU OF PERMANENT MEASURES.
5. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE ADEQUATELY MAINTAINED TO PERFORM THEIR INTENDED FUNCTION DURING CONSTRUCTION OF THE PROJECT.
6. NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BARRIERS SHALL BE ACCOMPLISHED PROMPTLY.
7. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER.
8. MATERIAL FROM SEDIMENT TRAPS SHALL NOT BE STOCKPILED OR DISPOSED OF IN A MANNER WHICH MAKES THEM READILY SUSCEPTIBLE TO BEING WASHED INTO ANY WATERCOURSE BY RUNOFF OR HIGH WATER.
9. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE BARRIERS ARE NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.
10. SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE (LF).
11. ALL INLETS TO BE PROTECTED BY DETAILS AS OUTLINED IN F.D.O.T. EROSION SEDIMENT CONTROL MANUAL (LATEST EDITION).
12. CONTRACTOR MUST MAINTAIN POSITIVE DRAINAGE AT ALL TIMES DURING THE COURSE OF THE CONSTRUCTION WORK.
13. CONTRACTOR MUST COORDINATE WITH ALL OF THE RESPONSIBLE AGENCIES PERTAINING TO EROSION AND SEDIMENT CONTROL WORK AND MAKE NECESSARY CHANGES BASED ON THE AGENCY'S GUIDANCE/DIRECTION AT NO ADDITIONAL COST TO THE OWNER.
14. THE EROSION CONTROL MEASURES SHOWN ON THIS PLAN ARE, IN THE OPINION OF THE ENGINEER, THE MINIMUM THAT MAY BE REQUIRED. ACTUAL FIELD CONDITIONS MAY REQUIRE EITHER ADDITIONAL OR REDUCED EROSION CONTROL MEASURES TO BE IMPLEMENTED. THE CONTRACTOR IS DIRECTED TO FOLLOW STANDARD BEST MANAGEMENT PRACTICES IN IMPLEMENTING A SUCCESSFUL EROSION CONTROL PLAN.
15. ALL DISTURBED AREAS TO BE SODDED OR SEEDED AND MULCHED WITHIN 7 DAYS AFTER FINAL GRADING.

Tillman & Associates
ENGINEERING, LLC.
CIVIL ENGINEERING - PLANNING - LANDSCAPE ARCHITECTURE - ENVIRONMENTAL
1720 SE 16th Ave. Bldg 100, Ocala, FL 34471
Office: (352) 387-4540 Fax: (352) 387-4545
CERTIFICATION OF AUTHORIZATION #26756

REVISIONS

DATE

IMPROVEMENT PLAN
WOODRIDGE PLACE
MARION COUNTY, FLORIDA

EROSION CONTROL PLAN

DATE 7/10/2024
DRAWN BY AS
CHKD. BY JMM
JOB NO. 22-8136

SHT. 15.01

NOT VALID UNLESS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER

Log of Borehole: SB-1

Project: WOODRIDGE PLACE, NE JACKSONVILLE RD, OCALA, FL — Project No: 22-3860.04.2
Boring Location: (SEE SITE PLAN) — Engineer: NJHCAH
Client: HARVEY VANDEVEN — Enclosure: SITE PLAN

GEO-TECH, INC. ENGINEERING CONSULTANTS 1016 SE 3rd Avenue Ocala, Florida 352.694.7711 WWW.GEOTECHFL.COM

Depth (ft)	Symbol	Description	Depth/Elev.	Number	Remarks
0		Ground Surface	0.0		
1		FINE SAND: BROWN FINE SAND (SP)		1	
4.5		CLAYEY SAND: YELLOWISH BROWN CLAYEY SAND (SC)		2	FIELD HORIZONTAL PERMEABILITY AT APPROX. 3.0 FEET = 32.4 FEET/DAY FIELD VERTICAL PERMEABILITY AT APPROX. 6.0 FEET = 18.0 FEET/DAY
11.5		CLAYEY SAND: YELLOWISH BROWN AND GREY CLAYEY SAND (SC)	12.5	3	ESHWTL AT APPROX. 11.5 FEET CONFINING LAYER AT APPROX. 12.5 FEET
15.0		SLIGHTLY SANDY CLAY: GREY AND YELLOWISH BROWN SLIGHTLY SANDY CLAY (CH)		4	
		End of Borehole			

Ground Water Depth: NOT FOUND — Drilled By: RDUHEC
Drill Date: APRIL 4, 2022 — Drill Method: ASTM D-6282
Remarks: (SP) UNIFIED SOIL CLASSIFICATION SYMBOL AS DETERMINED BY VISUAL REVIEW
Soil Profile: 17 OF 38

Log of Borehole: SB-2

Project: WOODRIDGE PLACE, NE JACKSONVILLE RD, OCALA, FL — Project No: 22-3860.04.2
Boring Location: (SEE SITE PLAN) — Engineer: NJHCAH
Client: HARVEY VANDEVEN — Enclosure: SITE PLAN

GEO-TECH, INC. ENGINEERING CONSULTANTS 1016 SE 3rd Avenue Ocala, Florida 352.694.7711 WWW.GEOTECHFL.COM

Depth (ft)	Symbol	Description	Depth/Elev.	Number	Remarks
0		Ground Surface	0.0		
1		FINE SAND: BROWN FINE SAND (SP)		1	
3.0		CLAYEY SAND: YELLOWISH BROWN CLAYEY SAND (SC)		2	
4.5		CLAYEY SAND: YELLOWISH BROWN AND GREY CLAYEY SAND (SC)		3	
20.0		End of Borehole			ESHWTL AND CONFINING LAYER GREATER THAN DEPTH DRILLED

Ground Water Depth: NOT FOUND — Drilled By: RDUHEC
Drill Date: APRIL 4, 2022 — Drill Method: ASTM D-6282
Remarks: (SP) UNIFIED SOIL CLASSIFICATION SYMBOL AS DETERMINED BY VISUAL REVIEW
Soil Profile: 18 OF 38

Log of Borehole: SB-3

Project: WOODRIDGE PLACE, NE JACKSONVILLE RD, OCALA, FL — Project No: 22-3860.04.2
Boring Location: (SEE SITE PLAN) — Engineer: NJHCAH
Client: HARVEY VANDEVEN — Enclosure: SITE PLAN

GEO-TECH, INC. ENGINEERING CONSULTANTS 1016 SE 3rd Avenue Ocala, Florida 352.694.7711 WWW.GEOTECHFL.COM

Depth (ft)	Symbol	Description	Depth/Elev.	Number	Remarks
0		Ground Surface	0.0		
1		FINE SAND: BROWN FINE SAND (SP)		1	
2.0		CLAYEY SAND: YELLOWISH BROWN CLAYEY SAND (SC)		2	
3.0		CLAYEY SAND: YELLOWISH BROWN AND GREY CLAYEY SAND (SC)		3	
20.0		End of Borehole			ESHWTL AND CONFINING LAYER GREATER THAN DEPTH DRILLED

Ground Water Depth: NOT FOUND — Drilled By: RDUHEC
Drill Date: APRIL 4, 2022 — Drill Method: ASTM D-6282
Remarks: (SP) UNIFIED SOIL CLASSIFICATION SYMBOL AS DETERMINED BY VISUAL REVIEW
Soil Profile: 19 OF 38

Log of Borehole: SB-4

Project: WOODRIDGE PLACE, NE JACKSONVILLE RD, OCALA, FL — Project No: 22-3860.04.2
Boring Location: (SEE SITE PLAN) — Engineer: NJHCAH
Client: HARVEY VANDEVEN — Enclosure: SITE PLAN

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Depth (ft)	Symbol	Description	Depth/Elev.	Number	Remarks
0		Ground Surface	0.0		
1		FINE SAND: BROWN FINE SAND (SP)		1	
7.0		CLAYEY SAND: YELLOWISH BROWN AND GREY CLAYEY SAND (SC)		2	
12.0		SLIGHTLY SANDY CLAY: GREY AND YELLOWISH BROWN SLIGHTLY SANDY CLAY (CH)		3	ESHWTL AT APPROX. 11.0 FEET CONFINING LAYER AT APPROX. 12.0 FEET
20.0		End of Borehole			

Ground Water Depth: NOT FOUND — Drilled By: RDUHEC
Drill Date: APRIL 4, 2022 — Drill Method: ASTM D-6282
Remarks: (SP) UNIFIED SOIL CLASSIFICATION SYMBOL AS DETERMINED BY VISUAL REVIEW
Soil Profile: 20 OF 38

Log of Borehole: SB-5

Project: WOODRIDGE PLACE, NE JACKSONVILLE RD, OCALA, FL — Project No: 22-3860.04.2
Boring Location: (SEE SITE PLAN) — Engineer: NJHCAH
Client: HARVEY VANDEVEN — Enclosure: SITE PLAN

GEO-TECH, INC. ENGINEERING CONSULTANTS 1016 SE 3rd Avenue Ocala, Florida 352.694.7711 WWW.GEOTECHFL.COM

Depth (ft)	Symbol	Description	Depth/Elev.	Number	Remarks
0		Ground Surface	0.0		
1		FINE SAND: BROWN FINE SAND (SP)		1	
5.0		CLAYEY SAND: YELLOWISH BROWN CLAYEY SAND (SC)		2	FIELD HORIZONTAL PERMEABILITY AT APPROX. 5.5 FEET = 6.1 FEET/DAY FIELD VERTICAL PERMEABILITY AT APPROX. 7.0 FEET = 4.7 FEET/DAY
12.0		CLAYEY SAND: YELLOWISH BROWN AND GREY CLAYEY SAND (SC)	13.0	3	ESHWTL AT APPROX. 12.0 FEET CONFINING LAYER AT APPROX. 13.0 FEET
20.0		SLIGHTLY SANDY CLAY: GREY AND YELLOWISH BROWN SLIGHTLY SANDY CLAY (CH)		4	
		End of Borehole			

Ground Water Depth: NOT FOUND — Drilled By: RDUHEC
Drill Date: APRIL 4, 2022 — Drill Method: ASTM D-6282
Remarks: (SP) UNIFIED SOIL CLASSIFICATION SYMBOL AS DETERMINED BY VISUAL REVIEW
Soil Profile: 21 OF 38

Log of Borehole: SB-6

Project: WOODRIDGE PLACE, NE JACKSONVILLE RD, OCALA, FL — Project No: 22-3860.04.2
Boring Location: (SEE SITE PLAN) — Engineer: NJHCAH
Client: HARVEY VANDEVEN — Enclosure: SITE PLAN

GEO-TECH, INC. ENGINEERING CONSULTANTS 1016 SE 3rd Avenue Ocala, Florida 352.694.7711 WWW.GEOTECHFL.COM

Depth (ft)	Symbol	Description	Depth/Elev.	Number	Remarks
0		Ground Surface	0.0		
1		FINE SAND: BROWN FINE SAND (SP)		1	
6.5		CLAYEY SAND: YELLOWISH BROWN CLAYEY SAND (SC)		2	FIELD HORIZONTAL PERMEABILITY AT APPROX. 4.0 FEET = 31.7 FEET/DAY FIELD VERTICAL PERMEABILITY AT APPROX. 8.0 FEET = 23.2 FEET/DAY
11.5		CLAYEY SAND: YELLOWISH BROWN AND GREY CLAYEY SAND (SC)		3	
20.0		End of Borehole			ESHWTL AND CONFINING LAYER GREATER THAN DEPTH DRILLED

Ground Water Depth: NOT FOUND — Drilled By: RDUHEC
Drill Date: APRIL 4, 2022 — Drill Method: ASTM D-6282
Remarks: (SP) UNIFIED SOIL CLASSIFICATION SYMBOL AS DETERMINED BY VISUAL REVIEW
Soil Profile: 22 OF 38

Log of Borehole: SB-7

Project: WOODRIDGE PLACE, NE JACKSONVILLE RD, OCALA, FL — Project No: 22-3860.04.2
Boring Location: (SEE SITE PLAN) — Engineer: NJHCAH
Client: HARVEY VANDEVEN — Enclosure: SITE PLAN

GEO-TECH, INC. ENGINEERING CONSULTANTS 1016 SE 3rd Avenue Ocala, Florida 352.694.7711 WWW.GEOTECHFL.COM

Depth (ft)	Symbol	Description	Depth/Elev.	Number	Remarks
0		Ground Surface	0.0		
1		FINE SAND: BROWN FINE SAND (SP)	1.0	1	
		LIMESTONE: LIGHT BROWN LIMESTONE (POSSIBLE BOULDER)		2	
9.0		SLIGHTLY SANDY CLAY: GREY AND YELLOWISH BROWN SLIGHTLY SANDY CLAY (CH)	10.5	3	ESHWTL AND CONFINING LAYER AT APPROX. 8.0 FEET
		LIMESTONE: LIGHT BROWN LIMESTONE		4	
20.0		End of Borehole			

Ground Water Depth: NOT FOUND — Drilled By: RDUHEC
Drill Date: APRIL 4, 2022 — Drill Method: ASTM D-6282
Remarks: (SP) UNIFIED SOIL CLASSIFICATION SYMBOL AS DETERMINED BY VISUAL REVIEW
Soil Profile: 23 OF 38

Log of Borehole: SB-8

Project: WOODRIDGE PLACE, NE JACKSONVILLE RD, OCALA, FL — Project No: 22-3860.04.2
Boring Location: (SEE SITE PLAN) — Engineer: NJHCAH
Client: HARVEY VANDEVEN — Enclosure: SITE PLAN

GEO-TECH, INC. ENGINEERING CONSULTANTS 1016 SE 3rd Avenue Ocala, Florida 352.694.7711 WWW.GEOTECHFL.COM

Depth (ft)	Symbol	Description	Depth/Elev.	Number	Remarks
0		Ground Surface	0.0		
1		FINE SAND: BROWN FINE SAND (SP)		1	
5.5		CLAYEY SAND: YELLOWISH BROWN CLAYEY SAND (SC)		2	FIELD HORIZONTAL PERMEABILITY AT APPROX. 4.0 FEET = 32.2 FEET/DAY FIELD VERTICAL PERMEABILITY AT APPROX. 7.5 FEET = 19.7 FEET/DAY
9.0		CLAYEY SAND: YELLOWISH BROWN AND GREY CLAYEY SAND (SC)		3	ESHWTL AT APPROX. 8.0 FEET CONFINING LAYER AT APPROX. 9.0 FEET
20.0		SLIGHTLY SANDY CLAY: GREY AND YELLOWISH BROWN SLIGHTLY SANDY CLAY (CH)		4	
		End of Borehole			

Ground Water Depth: NOT FOUND — Drilled By: RDUHEC
Drill Date: APRIL 4, 2022 — Drill Method: ASTM D-6282
Remarks: (SP) UNIFIED SOIL CLASSIFICATION SYMBOL AS DETERMINED BY VISUAL REVIEW
Soil Profile: 24 OF 38

Log of Borehole: SB-9

Project: WOODRIDGE PLACE, NE JACKSONVILLE RD, OCALA, FL — Project No: 22-3860.04.2
Boring Location: (SEE SITE PLAN) — Engineer: NJHCAH
Client: HARVEY VANDEVEN — Enclosure: SITE PLAN

GEO-TECH, INC. ENGINEERING CONSULTANTS 1016 SE 3rd Avenue Ocala, Florida 352.694.7711 WWW.GEOTECHFL.COM

Depth (ft)	Symbol	Description	Depth/Elev.	Number	Remarks
0		Ground Surface	0.0		
1		FINE SAND: BROWN FINE SAND (SP)		1	
6.5		CLAYEY SAND: YELLOWISH BROWN CLAYEY SAND (SC)	7.5	2	
11.5		CLAYEY SAND: YELLOWISH BROWN AND GREY CLAYEY SAND (SC)		3	ESHWTL AT APPROX. 16.5 FEET CONFINING LAYER AT APPROX. 11.5 FEET
20.0		SLIGHTLY SANDY CLAY: GREY AND YELLOWISH BROWN SLIGHTLY SANDY CLAY (CH)		4	
		End of Borehole			

Ground Water Depth: NOT FOUND — Drilled By: RDUHEC
Drill Date: APRIL 4, 2022 — Drill Method: ASTM D-6282
Remarks: (SP) UNIFIED SOIL CLASSIFICATION SYMBOL AS DETERMINED BY VISUAL REVIEW
Soil Profile: 25 OF 38

Log of Borehole: SB-10

Project: WOODRIDGE PLACE, NE JACKSONVILLE RD, OCALA, FL — Project No: 22-3860.04.2
Boring Location: (SEE SITE PLAN) — Engineer: NJHCAH
Client: HARVEY VANDEVEN — Enclosure: SITE PLAN

GEO-TECH, INC. ENGINEERING CONSULTANTS 1016 SE 3rd Avenue Ocala, Florida 352.694.7711 WWW.GEOTECHFL.COM

Depth (ft)	Symbol	Description	Depth/Elev.	Number	Remarks
0		Ground Surface	0.0		
1		FINE SAND: BROWN FINE SAND (SP)		1	
7.0		CLAYEY SAND: YELLOWISH BROWN CLAYEY SAND (SC)	8.0	2	
11.5		CLAYEY SAND: YELLOWISH BROWN AND GREY CLAYEY SAND (SC)		3	ESHWTL AT APPROX. 16.5 FEET CONFINING LAYER AT APPROX. 11.5 FEET
20.0		SLIGHTLY SANDY CLAY: GREY AND YELLOWISH BROWN SLIGHTLY SANDY CLAY (CH)		4	
		End of Borehole			

Ground Water Depth: NOT FOUND — Drilled By: RDUHEC
Drill Date: APRIL 4, 2022 — Drill Method: ASTM D-6282
Remarks: (SP) UNIFIED SOIL CLASSIFICATION SYMBOL AS DETERMINED BY VISUAL REVIEW
Soil Profile: 26 OF 38

Log of Borehole: SB-11

Project: WOODRIDGE PLACE, NE JACKSONVILLE RD, OCALA, FL — Project No: 22-3860.04.2
Boring Location: (SEE SITE PLAN) — Engineer: NJHCAH
Client: HARVEY VANDEVEN — Enclosure: SITE PLAN

GEO-TECH, INC. ENGINEERING CONSULTANTS 1016 SE 3rd Avenue Ocala, Florida 352.694.7711 WWW.GEOTECHFL.COM

Depth (ft)	Symbol	Description	Depth/Elev.	Number	Remarks
0		Ground Surface	0.0		
1		FINE SAND: BROWN FINE SAND (SP)		1	
3.0		CLAYEY SAND: YELLOWISH BROWN AND GREY CLAYEY SAND (SC)	4.0	2	ESHWTL AT APPROX. 3.0 FEET CONFINING LAYER AT APPROX. 4.0 FEET
		SLIGHTLY SANDY CLAY: GREY AND YELLOWISH BROWN SLIGHTLY SANDY CLAY (CH)		3	
20.0		End of Borehole			

Ground Water Depth: NOT FOUND — Drilled By: RDUHEC
Drill Date: APRIL 4, 2022 — Drill Method: ASTM D-6282
Remarks: (SP) UNIFIED SOIL CLASSIFICATION SYMBOL AS DETERMINED BY VISUAL REVIEW
Soil Profile: 27 OF 38

Log of Borehole: SB-12

Project: WOODRIDGE PLACE, NE JACKSONVILLE RD, OCALA, FL — Project No: 22-3860.04.2
Boring Location: (SEE SITE PLAN) — Engineer: NJHCAH
Client: HARVEY VANDEVEN — Enclosure: SITE PLAN

GEO-TECH, INC. ENGINEERING CONSULTANTS 1016 SE 3rd Avenue Ocala, Florida 352.694.7711 WWW.GEOTECHFL.COM

Depth (ft)	Symbol	Description	Depth/Elev.	Number	Remarks
0		Ground Surface	0.0		
1		FINE SAND: BROWN FINE SAND (SP)		1	
11.0		CLAYEY SAND: YELLOWISH BROWN AND GREY CLAYEY SAND (SC)	12.5	2	FIELD HORIZONTAL PERMEABILITY AT APPROX. 6.0 FEET = 33.6 FEET/DAY FIELD VERTICAL PERMEABILITY AT APPROX. 10.0 FEET = 25.0 FEET/DAY ESHWTL AT APPROX. 11.0 FEET CONFINING LAYER AT APPROX. 12.5 FEET
		SLIGHTLY SANDY CLAY: GREY AND YELLOWISH BROWN SLIGHTLY SANDY CLAY (CH)		3	
20.0		End of Borehole			

Ground Water Depth: NOT FOUND — Drilled By: RDUHEC
Drill Date: APRIL 4, 2022 — Drill Method: ASTM D-6282
Remarks: (SP) UNIFIED SOIL CLASSIFICATION SYMBOL AS DETERMINED BY VISUAL REVIEW
Soil Profile: 28 OF 38

Log of Borehole: SB-13

Project: WOODRIDGE PLACE, NE JACKSONVILLE RD, OCALA, FL — Project No: 22-3860.04.2
Boring Location: (SEE SITE PLAN) — Engineer: NJHCAH
Client: HARVEY VANDEVEN — Enclosure: SITE PLAN

GEO-TECH, INC. ENGINEERING CONSULTANTS 1016 SE 3rd Avenue Ocala, Florida 352.694.7711 WWW.GEOTECHFL.COM

Depth (ft)	Symbol	Description	Depth/Elev.	Number	Remarks
0		Ground Surface	0.0		
1		FINE SAND: BROWN FINE SAND (SP)		1	
9.5		CLAYEY SAND: YELLOWISH BROWN AND GREY CLAYEY SAND (SC)		2	FIELD HORIZONTAL PERMEABILITY AT APPROX. 8.0 FEET = 32.4 FEET/DAY FIELD VERTICAL PERMEABILITY AT APPROX. 9.5 FEET = 16.3 FEET/DAY
20.0		End of Borehole			ESHWTL AND CONFINING LAYER GREATER THAN DEPTH DRILLED

Ground Water Depth: NOT FOUND — Drilled By: RDUHEC
Drill Date: APRIL 4, 2022 — Drill Method: ASTM D-6282
Remarks: (SP) UNIFIED SOIL CLASSIFICATION SYMBOL AS DETERMINED BY VISUAL REVIEW
Soil Profile: 29 OF 38

Log of Borehole: SB-14

Project: WOODRIDGE PLACE, NE JACKSONVILLE RD, OCALA, FL — Project No: 22-3860.04.2
Boring Location: (SEE SITE PLAN) — Engineer: NJHCAH
Client: HARVEY VANDEVEN — Enclosure: SITE PLAN

GEO-TECH, INC. ENGINEERING CONSULTANTS 1016 SE 3rd Avenue Ocala, Florida 352.694.7711 WWW.GEOTECHFL.COM

Depth (ft)	Symbol	Description	Depth/Elev.	Number	Remarks
0		Ground Surface	0.0		
1		FINE SAND: BROWN FINE SAND (SP)		1	
9.0		CLAYEY SAND: YELLOWISH BROWN AND GREY CLAYEY SAND (SC)		2	
14.0		SLIGHTLY SANDY CLAY: GREY AND YELLOWISH BROWN SLIGHTLY SANDY CLAY (CH)		3	ESHWTL AT APPROX. 13.0 FEET CONFINING LAYER AT APPROX. 14.0 FEET
20.0		End of Borehole			

Ground Water Depth: NOT FOUND — Drilled By: RDUHEC
Drill Date: APRIL 4, 2022 — Drill Method: ASTM D-6282
Remarks: (SP) UNIFIED SOIL CLASSIFICATION SYMBOL AS DETERMINED BY VISUAL REVIEW
Soil Profile: 30 OF 38

Log of Borehole: SB-15

Project: WOODRIDGE PLACE, NE JACKSONVILLE RD, OCALA, FL — Project No: 22-3860.04.2
Boring Location: (SEE SITE PLAN) — Engineer: NJHCAH
Client: HARVEY VANDEVEN — Enclosure: SITE PLAN

GEO-TECH, INC. ENGINEERING CONSULTANTS 1016 SE 3rd Avenue Ocala, Florida 352.694.7711 WWW.GEOTECHFL.COM

Depth (ft)	Symbol	Description	Depth/Elev.	Number	Remarks
0		Ground Surface	0.0		
1		FINE SAND: BROWN FINE SAND (SP)		1	
4.0		CLAYEY SAND: YELLOWISH BROWN CLAYEY SAND (SC)		2	FIELD HORIZONTAL PERMEABILITY AT APPROX. 5.0 FEET = 6.6 FEET/DAY FIELD VERTICAL PERMEABILITY AT APPROX. 7.0 FEET = 5.0 FEET/DAY
12.5		CLAYEY SAND: YELLOWISH BROWN AND GREY CLAYEY SAND (SC)	13.5	3	ESHWTL AT APPROX. 12.5 FEET CONFINING LAYER AT APPROX. 13.5 FEET
		SLIGHTLY SANDY CLAY: GREY AND YELLOWISH BROWN SLIGHTLY SANDY CLAY (CH)		4	
20.0		End of Borehole			

Ground Water Depth: NOT FOUND — Drilled By: RDUHEC
Drill Date: APRIL 4, 2022 — Drill Method: ASTM D-6282
Remarks: (SP) UNIFIED SOIL CLASSIFICATION SYMBOL AS DETERMINED BY VISUAL REVIEW
Soil Profile: 31 OF 38

NOT VALID UNLESS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER

S:\Marion County\Harvey Vandeven_Summerbrooke Estates fka Woodridge Place\NKA Woodridge Place\CIVIL\CONSTRUCTION\SB Boring Logs.dwg, 7/10/2024 1:38:15 PM

Marion County Approval Stamp

Tillman & Associates
ENGINEERING, LLC.
CIVIL ENGINEERING - PLANNING - LANDSCAPE ARCHITECTURE - ENVIRONMENTAL
1720 SE 16th Ave. Bldg 100, Ocala, FL 34471
Office: (352) 387-4540 Fax: (352) 387-4545
CERTIFICATE OF AUTHORIZATION #26756

REVISIONS

DATE

IMPROVEMENT PLANS
WOODRIDGE PLACE
MARION COUNTY, FLORIDA

BORING LOGS

DATE 7/10/2024
DRAWN BY AS
CHKD. BY JMM
JOB NO. 22-8136

SHT. BL.01

Log of Borehole: SB-18

Project: WOODRIDGE PLACE, NE JACKSONVILLE RD, OCALA, FL
Project No: 22-3860.04.2
Boring Location: (SEE SITE PLAN)
Engineer: NJH/CAH
Client: HARVEY VANDEVEN
Enclosure: SITE PLAN

GEO-TECH, INC. ENGINEERING CONSULTANTS 1016 SE 3rd Avenue Ocala, Florida 352.694.7711 WWW.GEOTECHFL.COM

Depth (ft)	Symbol	Description	Depth/Elev.	Number	Remarks
0		Ground Surface	0.0		
		FINE SAND BROWN FINE SAND (SP)		1	
9			9.0		
		CLAYEY SAND YELLOWISH BROWN CLAYEY SAND (SC)	11.0	2	ESHWTL AT APPROX. 11.0 FEET
		CLAYEY SAND YELLOWISH BROWN AND GREY CLAYEY SAND (SC)	12.0	3	CONFINING LAYER AT APPROX. 12.0 FEET
		SLIGHTLY SANDY CLAY GREY AND YELLOWISH BROWN SLIGHTLY SANDY CLAY (CH)		4	
20		End of Borehole	20.0		

Ground Water Depth: NOT FOUND
Drill Date: APRIL 4, 2022
Drilled By: RDU/HEC
Drill Method: ASTM D-6282
Remarks: (SP) UNIFIED SOIL CLASSIFICATION SYMBOL AS DETERMINED BY VISUAL REVIEW
Soil Profile : 34 OF 38

Log of Borehole: SB-19

Project: WOODRIDGE PLACE, NE JACKSONVILLE RD, OCALA, FL
Project No: 22-3860.04.2
Boring Location: (SEE SITE PLAN)
Engineer: NJH/CAH
Client: HARVEY VANDEVEN
Enclosure: SITE PLAN

GEO-TECH, INC. ENGINEERING CONSULTANTS 1016 SE 3rd Avenue Ocala, Florida 352.694.7711 WWW.GEOTECHFL.COM

Depth (ft)	Symbol	Description	Depth/Elev.	Number	Remarks
0		Ground Surface	0.0		
		FINE SAND BROWN FINE SAND (SP)		1	FIELD HORIZONTAL PERMEABILITY AT APPROX. 5.0 FEET = 32.1 FEET/DAY
12			12.0		FIELD VERTICAL PERMEABILITY AT APPROX. 10.0 FEET = 23.8 FEET/DAY
		CLAYEY SAND YELLOWISH BROWN AND GREY CLAYEY SAND (SC)	13.0	2	ESHWTL AT APPROX. 12.6 FEET
		SLIGHTLY SANDY CLAY GREY AND YELLOWISH BROWN SLIGHTLY SANDY CLAY (CH)		3	CONFINING LAYER AT APPROX. 13.0 FEET
20		End of Borehole	20.0		

Ground Water Depth: NOT FOUND
Drill Date: APRIL 6, 2022
Drilled By: RDU/HEC
Drill Method: ASTM D-6282
Remarks: (SP) UNIFIED SOIL CLASSIFICATION SYMBOL AS DETERMINED BY VISUAL REVIEW
Soil Profile : 35 OF 38

Log of Borehole: SB-20

Project: WOODRIDGE PLACE, NE JACKSONVILLE RD, OCALA, FL
Project No: 22-3860.04.2
Boring Location: (SEE SITE PLAN)
Engineer: NJH/CAH
Client: HARVEY VANDEVEN
Enclosure: SITE PLAN

GEO-TECH, INC. ENGINEERING CONSULTANTS 1016 SE 3rd Avenue Ocala, Florida 352.694.7711 WWW.GEOTECHFL.COM

Depth (ft)	Symbol	Description	Depth/Elev.	Number	Remarks
0		Ground Surface	0.0		
		FINE SAND BROWN FINE SAND (SP)		1	
7			7.0		
		CLAYEY SAND YELLOWISH BROWN CLAYEY SAND (SC)	8.5	2	
		CLAYEY SAND YELLOWISH BROWN AND GREY CLAYEY SAND (SC)	11.0	3	ESHWTL AT APPROX. 10.5 FEET CONFINING LAYER AT APPROX. 11.0 FEET
		SLIGHTLY SANDY CLAY GREY AND YELLOWISH BROWN SLIGHTLY SANDY CLAY (CH)		4	
20		End of Borehole	20.0		

Ground Water Depth: NOT FOUND
Drill Date: APRIL 6, 2022
Drilled By: RDU/HEC
Drill Method: ASTM D-6282
Remarks: (SP) UNIFIED SOIL CLASSIFICATION SYMBOL AS DETERMINED BY VISUAL REVIEW
Soil Profile : 36 OF 38

Log of Borehole: SB-21

Project: WOODRIDGE PLACE, NE JACKSONVILLE RD, OCALA, FL
Project No: 22-3860.04.2
Boring Location: (SEE SITE PLAN)
Engineer: NJH/CAH
Client: HARVEY VANDEVEN
Enclosure: SITE PLAN

GEO-TECH, INC. ENGINEERING CONSULTANTS 1016 SE 3rd Avenue Ocala, Florida 352.694.7711 WWW.GEOTECHFL.COM

Depth (ft)	Symbol	Description	Depth/Elev.	Number	Remarks
0		Ground Surface	0.0		
		FINE SAND BROWN FINE SAND (SP)		1	FIELD HORIZONTAL PERMEABILITY AT APPROX. 5.0 FEET = 26.7 FEET/DAY
9			9.0		FIELD VERTICAL PERMEABILITY AT APPROX. 10.0 FEET = 12.1 FEET/DAY
		CLAYEY SAND YELLOWISH BROWN CLAYEY SAND (SC)	17.5	2	
		CLAYEY SAND YELLOWISH BROWN AND GREY CLAYEY SAND (SC)	20.0	3	ESHWTL AND CONFINING LAYER GREATER THAN DEPTH DRILLED
20		End of Borehole			

Ground Water Depth: NOT FOUND
Drill Date: APRIL 6, 2022
Drilled By: RDU/HEC
Drill Method: ASTM D-6282
Remarks: (SP) UNIFIED SOIL CLASSIFICATION SYMBOL AS DETERMINED BY VISUAL REVIEW
Soil Profile : 37 OF 38

Log of Borehole: SB-22

Project: WOODRIDGE PLACE, NE JACKSONVILLE RD, OCALA, FL
Project No: 22-3860.04.2
Boring Location: (SEE SITE PLAN)
Engineer: NJH/CAH
Client: HARVEY VANDEVEN
Enclosure: SITE PLAN

GEO-TECH, INC. ENGINEERING CONSULTANTS 1016 SE 3rd Avenue Ocala, Florida 352.694.7711 WWW.GEOTECHFL.COM

Depth (ft)	Symbol	Description	Depth/Elev.	Number	Remarks
0		Ground Surface	0.0		
		FINE SAND BROWN FINE SAND (SP)		1	
11			11.0		
		CLAYEY SAND YELLOWISH BROWN CLAYEY SAND (SC)	12.0	2	ESHWTL AT APPROX. 12.0 FEET
		CLAYEY SAND YELLOWISH BROWN AND GREY CLAYEY SAND (SC)	13.0	3	CONFINING LAYER AT APPROX. 13.0 FEET
		SLIGHTLY SANDY CLAY GREY AND YELLOWISH BROWN SLIGHTLY SANDY CLAY (CH)		4	
20		End of Borehole	20.0		

Ground Water Depth: NOT FOUND
Drill Date: APRIL 4, 2022
Drilled By: RDU/HEC
Drill Method: ASTM D-6282
Remarks: (SP) UNIFIED SOIL CLASSIFICATION SYMBOL AS DETERMINED BY VISUAL REVIEW
Soil Profile : 38 OF 38

Marion County Approval Stamp

Tillman & Associates ENGINEERING, LLC.
CIVIL ENGINEERING - PLANNING - LANDSCAPE ARCHITECTURE - ENVIRONMENTAL
1720 SE 16th Ave. Bldg 100, Ocala, FL 34471
Office: (352) 387-4540 Fax: (352) 387-4545
CERTIFICATE OF AUTHORIZATION #26756

REVISIONS

DATE

IMPROVEMENT PLANS
WOODRIDGE PLACE
MARION COUNTY, FLORIDA

BORING LOGS

DATE 7/10/2024
DRAWN BY AS
CHKD. BY JMM
JOB NO. 22-8136

SHT. BL.02

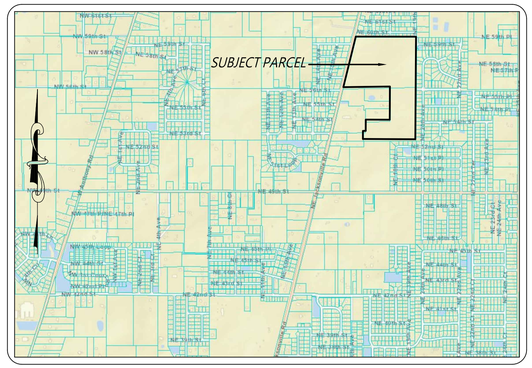
NOT VALID UNLESS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER

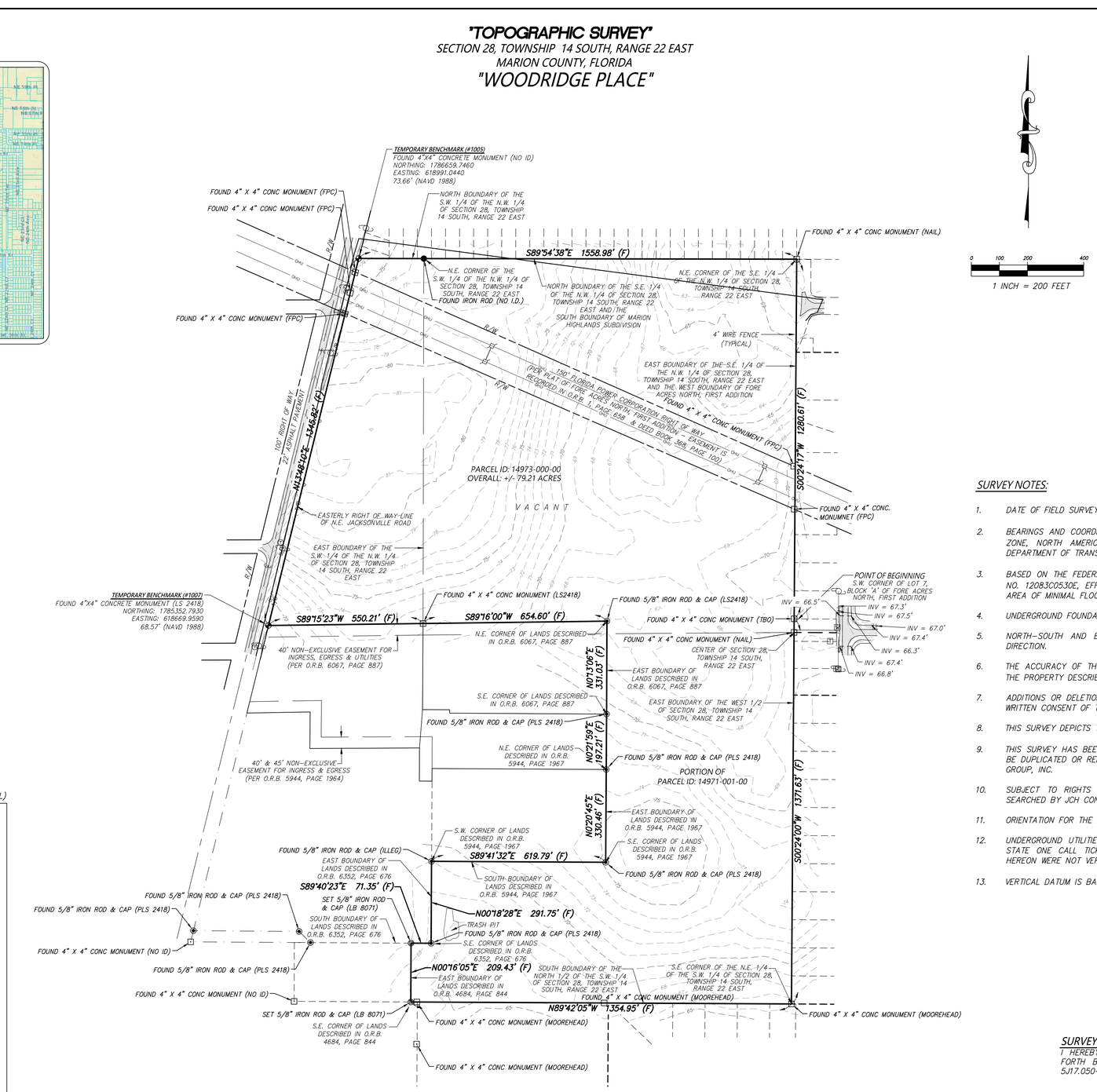
"TOPOGRAPHIC SURVEY"

SECTION 28, TOWNSHIP 14 SOUTH, RANGE 22 EAST
MARION COUNTY, FLORIDA
"WOODRIDGE PLACE"

VICINITY MAP:

NOT TO SCALE





LEGEND AND ABBREVIATIONS:

±	MORE OR LESS
EL.	ELEVATION
LB	LICENSED BUSINESS
NO.	NUMBER
LS	LAND SURVEYOR
I.D.	IDENTIFICATION
℄	CENTERLINE
R	RADIUS
L	ARC LENGTH
Δ	DELTA (CENTRAL ANGLE)
C.D.	CHORD LENGTH
C.B.	CHORD BEARING
(P)	PLAT MEASUREMENT
(D)	DEED MEASUREMENT
(C)	CALCULATED MEASUREMENT
(F)	FIELD MEASUREMENT
DIP	DUCTILE IRON PIPE
PVC	POLYVINYL CHLORIDE
CMP	CORRUGATED METAL PIPE
RCP	REINFORCED CONCRETE PIPE
HDPE	HIGH DENSITY POLYETHYLENE
NAVD	NORTH AMERICAN VERTICAL DATUM
FPC	FLORIDA POWER CORPORATION
PB	PLAT BOOK
O.R.B.	OFFICIAL RECORDS BOOK
PG(S)	PAGE(S)
R/W	RIGHT OF WAY
CCR	CERTIFIED CORNER RECORD
RLS	REGISTERED LAND SURVEYOR
CONC	CONCRETE
	CONTROL/BENCHMARK AS DESCRIBED
	CATCH BASIN
	STORM MANHOLE
	MITERED END SECTION
S	SANITARY MANHOLE
	SANITARY CLEANOUT
E	ELECTRIC MANHOLE
E	ELECTRIC METER
E	ELECTRIC RISER BOX
	CABLE TELEVISION RISER BOX
T	TELEPHONE RISER BOX
T	TELEPHONE MANHOLE
W	WELL
	IRRIGATION CONTROL VALVE
	WATER METER
	WATER VALVE
	FIRE HYDRANT
	BACK FLOW PREVENTER
	GAS VALVE
	GAS METER
	GAS LINE MARKER
	CONCRETE UTILITY POLE
	WOOD UTILITY POLE
	UTILITY POLE GUY ANCHOR
	LIGHT POLE
EV	ELECTRIC VAULT
	SIGN
	FLAG POLE
	MAILBOX
X X	FENCE LINE AS NOTED
T/B	APPROXIMATE TOP OF BANK
T/S	APPROXIMATE TOE OF SLOPE
100	EXISTING CONTOUR
BFOC	UNDERGROUND FIBER OPTIC
S	UNDERGROUND SANITARY SEWER
SAN FM	UNDERGROUND FORCE MAIN
W	UNDERGROUND WATER LINE
OHU	OVERHEAD UTILITY
E	UNDERGROUND ELECTRIC LINE
CATV	UNDERGROUND TV CABLE LINE

TREE LEGEND
(SIZE DENOTED INSIDE SYMBOL)

- CAMPHOR
- CEDAR
- CHERRY
- CHINABERRY
- CYPRESS
- DOGWOOD
- ELM
- GUM
- HICKORY
- HOLLY
- LAUREL OAK
- LIVE OAK
- MAGNOLIA
- MAPLE
- MIMOSA
- MISC
- OAK
- PALM
- PECAN
- PINE TREE
- SUGAR HACKBERRY
- SYCAMORE

SURVEY NOTES:

1. DATE OF FIELD SURVEY: FEBRUARY 3, 2022.
2. BEARINGS AND COORDINATES SHOWN HEREON ARE BASED ON THE FLORIDA STATE PLANE 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.
3. BASED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S FLOOD INSURANCE RATE MAP (FIRM), COMMUNITY PANEL NO. 12083C0530E, EFFECTIVE APRIL 19, 2017, THE PROPERTY DESCRIBED HEREON LIES WITHIN FLOOD ZONE "X" AN AREA OF MINIMAL FLOOD HAZARD.
4. UNDERGROUND FOUNDATIONS AND UTILITIES WERE NOT LOCATED AS PART OF THIS SURVEY.
5. NORTH-SOUTH AND EAST-WEST TIES TO FOUND MONUMENTATION AND IMPROVEMENTS ARE BASED ON CARDINAL DIRECTION.
6. THE ACCURACY OF THE SURVEY MEASUREMENTS USED FOR THIS SURVEY MEETS OR EXCEEDS THE EXPECTED USE OF THE PROPERTY DESCRIBED HEREON (RURAL) 1 FOOT IN 5,000 FEET.
7. ADDITIONS OR DELETIONS TO SURVEY MAPS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
8. THIS SURVEY DEPICTS THE PROPERTY AS IT EXISTED ON THE SURVEY DATE, NOT NECESSARILY THE SIGNATURE DATE.
9. THIS SURVEY HAS BEEN PREPARED FOR THE EXCLUSIVE BENEFIT OF THE PARTY(IES) NAMED HEREON, AND SHALL NOT BE DUPLICATED OR RELIED UPON BY ANY OTHER INDIVIDUAL OR ENTITY WITHOUT AUTHORIZATION FROM JCH CONSULTING GROUP, INC.
10. SUBJECT TO RIGHTS OF WAY, RESTRICTIONS, EASEMENTS AND RESERVATIONS OF RECORD. PUBLIC RECORDS NOT SEARCHED BY JCH CONSULTING GROUP, INC.
11. ORIENTATION FOR THE IMPROVEMENTS SHOWN HEREON SHOULD NOT BE USED TO RECONSTRUCT BOUNDARY LINES.
12. UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON SURFACE EVIDENCE OF LOCATIONS PROVIDED BY SUNSHINE STATE ONE CALL TICKET NOS: 286107494, 286107597, 286107615. LOCATIONS OF UNDERGROUND UTILITIES SHOWN HEREON WERE NOT VERIFIED BY JCH CONSULTING GROUP, INC.
13. VERTICAL DATUM IS BASED ON NATIONAL GEODETIC SURVEY CONTROL POINT "T 447", ELEVATION = 71.37' (NAVD-88).

SURVEYOR'S CERTIFICATE:

I HEREBY CERTIFY THIS SURVEY MEETS THE APPLICABLE STANDARDS OF PRACTICE AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J17.050-.052, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

CHRISTOPHER J. HOWSON — DATE
FLORIDA LICENSED SURVEYOR & MAPPER NO. 6553

THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

(CERTIFICATE OF AUTHORIZATION NO. LB 8071)

REVISIONS				
FB/PG	DATE	DRAWN	REVISION	CKD
22-8/56	06/13/23	CJH	ADD OFFISTE TOPO	CJH

JCH
CONSULTING GROUP, INC.
LAND DEVELOPMENT + SURVEYING & MAPPING
PLANNING + ENVIRONMENTAL + G.I.S.
426 SW 15TH STREET, OCALA, FLORIDA 34471
PHONE 352-405-1462 FAX 888-272-8335 www.JCHgc.com
CERTIFICATE OF AUTHORIZATION - L.B. 8071

LOCATED IN SECTION 28, TOWNSHIP 14 SOUTH, RANGE 22 EAST

MARION COUNTY, FLORIDA

TOPOGRAPHIC SURVEY
-FOR-
HARVEY W. VANDEVEN

FB/PG	FIELD DATE	JOB NO.
21-10/28-30	2/3/22	211276BND_TOPOADD
DRAWING DATE	BY / APPROVED	SCALE
2/17/22	KLJ / CJH	1" = 200'

1 OF 1

Drawing name: Z:\Projects\211276 Woodridge Place - Summerlowke\14973-000-001\DWG\Boundary & Topo\211276TOPOADD.DWG SHEET 1 Jun 26, 2023 1:36pm by Administrator

Marion County Approval Stamp

120' 60' 0 120' 240'
SCALE IN FEET
1" =120'

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
STREET 'G'	N/A
STREET 'H'	N/A
STREET 'I'	N/A
STREET 'J'	N/A
STREET 'K'	N/A
STREET 'L'	N/A
STREET 'M'	N/A
STREET 'N'	N/A
STREET 'O'	N/A
STREET 'P'	N/A
STREET 'Q'	N/A

Tillman & Associates
ENGINEERING, LLC.
CIVIL ENGINEERING - PLANNING - LANDSCAPE ARCHITECTURE - ENVIRONMENTAL
1720 SE 16th Ave. Bldg 100, Ocala, FL 34471
Office: (352) 387-4540 Fax: (352) 387-4545
CERTIFICATE OF AUTHORIZATION #26756

REVISIONS

DATE

911 MANAGEMENT PLAN

IMPROVEMENT PLANS
WOODRIDGE PLACE
MARION COUNTY, FLORIDA

DATE 7/10/2024
DRAWN BY AS
CHKD. BY JMM
JOB NO. 22-8136

SHT. RN.01

\Marion County\Harvey Vandeven_Summerbrooke Estates nka Woodland Place, NKA Woodridge Place\CIVIL\CONSTRUCTION\RN.01-911 Management Plan.dwg, 7/10/2024 1:58:40 PM

NOT VALID UNLESS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER

Marion County Approval Stamp

120' 60' 0 120' 240'

SCALE IN FEET
1" = 120'

LEGEND:

- IRRIGATION SLEEVE
- TECO SLEEVE
- DUKE SLEEVE
- DCM SLEEVE

IRRIGATION SLEEVE SCHEDULE	ELECTRIC SLEEVE SCHEDULE (DUKE)
(L1) (1) 6" SCH 40 PVC SLEEVE (1) 4" SCH 40 PVC SLEEVE (1) 2" SCH 40 PVC SLEEVE	(E1) (1) 3" GRAY SCH 40 PVC CONDUIT (E2) (2) 3" GRAY SCH 40 PVC CONDUIT (E3) (3) 3" GRAY SCH 40 PVC CONDUIT
NATURAL GAS SLEEVE SCHEDULE (TECO)	TELEPHONE/CABLE/INTERNET SLEEVE SCHEDULE (DCM)
(G1) (1) 4" SCH 40 PVC SLEEVE	(D1) (1) 2" SCH 40 PVC SLEEVE (D2) (2) 2" SCH 40 PVC SLEEVE (D3) (1) 3" SCH 40 PVC SLEEVE (D4) (2) 3" SCH 40 PVC SLEEVE

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REVISIONS

DATE

IMPROVEMENT PLANS
WOODRIDGE PLACE
MARION COUNTY, FLORIDA

SLEEVING PLAN

DATE 7/10/2024
DRAWN BY AS
CHKD. BY JMM
JOB NO. 22-8136

SHT. SL.01

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