

**From:** [Yesenia](#)  
**To:** [Development Review](#)  
**Cc:** [Alejandro Gutierrez](#)  
**Subject:** Request Extension = Plan Number 30183 Major Site Plan will expire in 30 days  
**Date:** Tuesday, July 7, 2026 12:31:23 PM

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**CAUTION: THIS MESSAGE IS FROM AN EXTERNAL SENDER**

This email originated from outside the organization. Do not click links, open attachments, or share any information unless you recognize the sender and know the content is safe. Report suspicious emails using the "Phish Alert" button in Outlook or contact the Helpdesk.

Good morning,

Thank you for the clarification regarding Plan Number 30183 – Major Site Plan.

At this time, we are still awaiting final financing approval in order to move forward with the remaining project requirements, including the signed/sealed plans, Development Order issuance, and completion of the As-built process.

For this reason, we would like to formally request an extension for the project while we complete the financing process and proceed with the remaining steps.

Thank you for your consideration, and please let us know if any additional information is needed.

Best regards,  
Yesenia Petit.

Ordenez Ordenez Construction INC.

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**From:** DoNotReply EPL Permit Notify <DoNotReply-EPLPermitNotify@marionfl.org>  
**Sent:** Sunday, May 17, 2026 12:06 AM  
**To:** Yesenia <yesenia@adanordonezp.com>  
**Subject:** Plan Number 30183 Major Site Plan will expire in 30 days

Hello,

This plan will expire soon. You may view details online by visiting the [Marion County Civic Access Portal](#).

If an extension is needed, please reply to this email providing the reason for the request and the duration of the extension. Upon receipt of the request, we will begin processing for formal approval. Fees may apply.

This message was sent from an official Marion County Board of County Commissioners email account. If you have questions or believe this message was sent in error, please contact us directly at +1 352 671 8686.

Thank you,

**Office of the County Engineer**  
**Marion County Board of County Commissioners**

**Ocala, Florida**

*Empowering Marion for Success!*

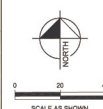












APPLICATION #: 30183  
APPROVAL DATE: 6/17/20  
EXPIRATION DATE: 6/17/20

All construction shall conform to the construction standards contained in the Marion County Land Development Code, latest revision. Areas of the right-of-way disturbed during construction shall be dressed and seeded. Seed and mulch may be used if approved by the County Engineer or

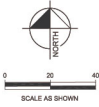
**NOTICE**  
The approval of these plans is limited to construction under the jurisdiction of Marion County and does not substitute nor waive the requirements of other agencies for additional permits, as applicable, by state and/or federal

COUN



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Date: 2024.05.02 10:15:20 -04'00'

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DEVELOPMENT REVIEW  
COMMITTEE  
MARION COUNTY, FLORIDA

APPLICATION # 30183  
APPROVAL DATE: 6/17/24  
EXPIRATION DATE: 6/17/28

All construction shall conform to the compilation of ordinances contained in the Marion County Code, Development Code, Water Ordinance, and the Marion County Ordinance. Areas of the site of any proposed development shall be shown and noted. Said area shall include the area of any proposed development and the area of any proposed development.

NOTICE

The approval of these plans by the Marion County Board of Commissioners does not constitute an endorsement of the project or the developer. The approval of these plans by the Marion County Board of Commissioners does not constitute an endorsement of the project or the developer.

COUNTY  
STAMP

Seal of Marion County, Florida

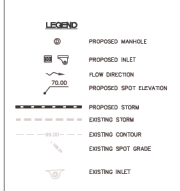
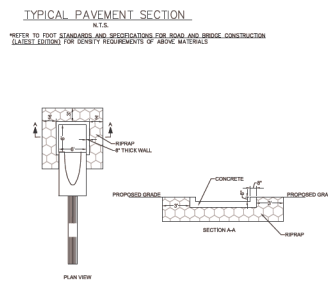
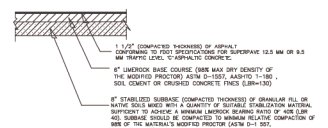
Seal of the State of Florida

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signed by  
Gregory T  
Chelatin  
Date:  
2024.03.05  
11:11:09 -0500

This form was created by the Marion County Board of Commissioners. It is not to be used for any other purpose. It is not to be used for any other purpose. It is not to be used for any other purpose.

|                                                                                                     |                         |                |           |                                                                          |    |
|-----------------------------------------------------------------------------------------------------|-------------------------|----------------|-----------|--------------------------------------------------------------------------|----|
| MIDWAY TERRACE LOT 18 MULTIFAMILY<br>OCALA, FL 34472<br>MAJOR SITE PLAN<br>MARION COUNTY<br>FLORIDA |                         | AERIAL MAP     |           | DATE:<br>2/2/2023<br>PROJECT NO:<br>36300-23-400<br>SHEET NUMBER<br>C04A |    |
| DESIGNED BY: GTC                                                                                    | BRADY T. CHATLAIN, P.E. | SCALE: NOTED   | REVISIONS | DATE                                                                     | BY |
| DRAWN BY: GTC                                                                                       | BRADY T. CHATLAIN, P.E. | DATE: 2/2/2023 | NO.       |                                                                          |    |
| CHECKED BY: GTC                                                                                     | BRADY T. CHATLAIN, P.E. | DATE: 2/2/2023 | NO.       |                                                                          |    |
| DATE: 2/2/2023                                                                                      | BRADY T. CHATLAIN, P.E. | DATE: 2/2/2023 | NO.       |                                                                          |    |





|                             |
|-----------------------------|
| DATE<br>2/2023              |
| PROJECT NO.<br>36300-23-400 |
| SHEET NUMBER<br>C05         |







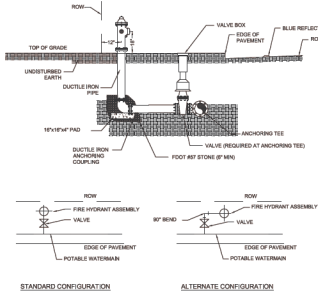






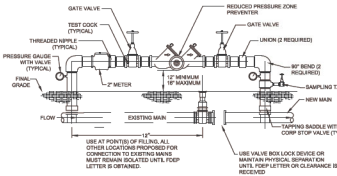


Drawing name: 2\_V:\projects\26300-Adm-Investment\26300-Midway Terrace Lot 18\Gold-CAD\C10-Midway Terrace Multi Family - Details C10.dwg    User: J. V.    Date: 2/2/2023    10:46am    By: Revision: B



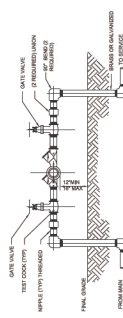
- NOTES:
1. BOMBY COLUMN SHALL BE IN ACCORDANCE WITH SEC. 6.12.1.6.
  2. HYDRANT SHALL BE 1" PRESSURE OF 100 PSI WHEN POSSIBLE.
  3. BLUE REFLECTOR SHALL BE PLACED IN THE MIDDLE OF THE ADJACENT TRAVEL LANE.
  4. RADIUS OF CLEAR SPACE AROUND THE FIRE HYDRANT SHALL BE IN ACCORDANCE WITH NFPA STANDARD NFPA 1001, TABLE 1.4.1.1.1.

FIRE HYDRANT ASSEMBLY 210



- NOTES:
1. 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 THE CITY.
  2. THE CITY WILL PROVIDE THE NEW WATER MAIN OF ANY SIZE FOR EXISTING ACTIVE WATER MAINS AND FOR FILLING OF NEW MAINS. AND FOR FILLING BACTERIOLOGICAL SAMPLES FROM ANY NEW WATER MAIN OF ANY SIZE. THE JUMPER CONNECTION SHALL BE MAINTAINED UNTIL AFTER FILLING, TESTING, AND DISINFECTION OF THE NEW MAIN HAS BEEN SUCCESSFULLY COMPLETED AND CLEARANCE FOR USE FROM THE CITY HAS BEEN RECEIVED. THIS JUMPER CONNECTION SHALL ALSO BE USED TO MAINTAIN A MINIMUM PRESSURE OF 20 PSI IN THE NEW MAIN. ALL THE TAPPING CONNECTIONS AND THE TAPPING CLEANING LETTER IS OBTAINED. ADEQUATE THROTTLE BLOTTING AND/OR RESTRAINTS SHALL BE PROVIDED TEMPORARILY AS REQUIRED. PIPE AND FITTINGS USED FOR CONNECTING THE NEW PIPE TO THE EXISTING MAIN SHALL BE CONFORMANT TO REGULATION IN ACCORDANCE WITH AWWA C900 LATEST EDITION.
  3. THE TAPPING SLEEVE AND THE EXTERIOR OF THE MAIN TO BE TAPPED SHALL BE DISINFECTED BY SPRAYING OR BRUSHING WITH A 1% SODIUM HYPOCHLORITE SOLUTION.
  4. UPON RECEIPT OF CLEARANCE FOR USE FROM THE CITY, THE CONTRACTOR SHALL REMOVE THE TEMPORARY JUMPER CONNECTION, THE TAPPING VALVE AND IT BE CLOSED AND PLUGGED WITH A BRASS PLUG. THE MAIN SHALL BE CONFORMANT TO REGULATION IN ACCORDANCE WITH AWWA C900 LATEST EDITION.
  5. ALL INSTALLATION AND MAINTENANCE OF THE TEMPORARY JUMPER CONNECTION AND ASSOCIATED BACKFLOW PREVENTER DEVICE, FITTINGS, VALVES, ETC. 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 FITTINGS AND APPURTENANCES TO BE 10" FOR 10" AND BELOW WATER MAINS, 12" FOR 12" WATER MAINS, 14" FOR 14" WATER MAINS.

TEMPORARY JUMPER CONNECTION 203



REDUCED PRESSURE BACKFLOW PREVENTER 209

DEVELOPMENT REVIEW  
COMMITTEE  
MARION COUNTY, FLORIDA

APPLICATION # 30183  
APPROVAL DATE: 6/17/24  
EXPIRATION DATE: 6/17/26

All construction shall conform to the construction requirements contained in the Marion County Code, Development Code, Water Ordinance, and the Florida Building Code. The applicant shall be responsible for obtaining all necessary permits, as applicable, for this and/or related work.

NOTICE  
The approval of these plans by the Marion County Code, Development Code, Water Ordinance, and the Florida Building Code does not constitute an endorsement or approval of the project or the contractor. The contractor shall be responsible for obtaining all necessary permits, as applicable, for this and/or related work.

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND CONNECTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND CONNECTIONS.



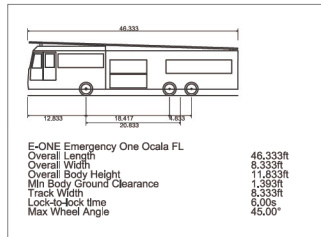
Digitally signed by Gregory T. Chatelain  
Date: 2023.05.17 14:49:47 -0400

UTILITY DETAILS

MIDWAY TERRACE LOT 18  
OCALA, FL 34472

MARION COUNTY  
FLORIDA

DATE: 2/2/2023  
PROJECT NO: 36,300-23-400  
SHEET NUMBER: C10



0 20 40

SCALE AS SHOWN

Digitally by Gregor Chatain

Date: 2021

10:16:56

| DEVELOPMENT REVIEW<br>COMMITTEE<br>MARION COUNTY, FLORIDA |         |
|-----------------------------------------------------------|---------|
| APPLICATION #:                                            | 30183   |
| APPROVAL DATE:                                            | 6/17/24 |
| EXPIRATION DATE:                                          | 6/17/26 |

All construction shall conform to the construction standards contained in the Marion County Land Development Code, latest revision. Areas of the right-of-way disturbed during construction shall be dressed and seeded. Seed and mulch may be used if approved by the County Engineer or designer.

**NOTICE**

The approval of these plans is limited to construction under the jurisdiction of Marion County and does not substitute nor waive the requirements of other agencies for additional permits, as applicable, by state and/or federal laws.

**NOTICE**  
approval of these plans  
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|     |                |                 |                                                      |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----|----------------|-----------------|------------------------------------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| C10 | PROJECT NUMBER | DATE<br>2/20/23 | MIDWAY TERRACE LOT 19 MULTIFAMILY<br>OCALA, FL 34742 | FIRE TRUCK ROUTE | SOW/EST. BY: J. HARRIS<br>DESIGNED BY: J. HARRIS<br>CHECKED BY: J. HARRIS<br>DRAWN BY: J. HARRIS<br>SCALE: 1/8"=1'-0"<br>1/2"=1'-0"<br>3/4"=1'-0"<br>1"=1'-0"<br>1 1/2"=1'-0"<br>2"=1'-0"<br>3"=1'-0"<br>4"=1'-0"<br>6"=1'-0"<br>8"=1'-0"<br>12"=1'-0"<br>18"=1'-0"<br>24"=1'-0"<br>36"=1'-0"<br>48"=1'-0"<br>60"=1'-0"<br>72"=1'-0"<br>84"=1'-0"<br>96"=1'-0"<br>108"=1'-0"<br>120"=1'-0"<br>132"=1'-0"<br>144"=1'-0"<br>156"=1'-0"<br>168"=1'-0"<br>180"=1'-0"<br>192"=1'-0"<br>204"=1'-0"<br>216"=1'-0"<br>228"=1'-0"<br>240"=1'-0"<br>252"=1'-0"<br>264"=1'-0"<br>276"=1'-0"<br>288"=1'-0"<br>300"=1'-0"<br>312"=1'-0"<br>324"=1'-0"<br>336"=1'-0"<br>348"=1'-0"<br>360"=1'-0"<br>372"=1'-0"<br>384"=1'-0"<br>396"=1'-0"<br>408"=1'-0"<br>420"=1'-0"<br>432"=1'-0"<br>444"=1'-0"<br>456"=1'-0"<br>468"=1'-0"<br>480"=1'-0"<br>492"=1'-0"<br>504"=1'-0"<br>516"=1'-0"<br>528"=1'-0"<br>540"=1'-0"<br>552"=1'-0"<br>564"=1'-0"<br>576"=1'-0"<br>588"=1'-0"<br>600"=1'-0"<br>612"=1'-0"<br>624"=1'-0"<br>636"=1'-0"<br>648"=1'-0"<br>660"=1'-0"<br>672"=1'-0"<br>684"=1'-0"<br>696"=1'-0"<br>708"=1'-0"<br>720"=1'-0"<br>732"=1'-0"<br>744"=1'-0"<br>756"=1'-0"<br>768"=1'-0"<br>780"=1'-0"<br>792"=1'-0"<br>804"=1'-0"<br>816"=1'-0"<br>828"=1'-0"<br>840"=1'-0"<br>852"=1'-0"<br>864"=1'-0"<br>876"=1'-0"<br>888"=1'-0"<br>900"=1'-0"<br>912"=1'-0"<br>924"=1'-0"<br>936"=1'-0"<br>948"=1'-0"<br>960"=1'-0"<br>972"=1'-0"<br>984"=1'-0"<br>996"=1'-0"<br>1008"=1'-0"<br>1020"=1'-0"<br>1032"=1'-0"<br>1044"=1'-0"<br>1056"=1'-0"<br>1068"=1'-0"<br>1080"=1'-0"<br>1092"=1'-0"<br>1104"=1'-0"<br>1116"=1'-0"<br>1128"=1'-0"<br>1140"=1'-0"<br>1152"=1'-0"<br>1164"=1'-0"<br>1176"=1'-0"<br>1188"=1'-0"<br>1200"=1'-0"<br>1212"=1'-0"<br>1224"=1'-0"<br>1236"=1'-0"<br>1248"=1'-0"<br>1260"=1'-0"<br>1272"=1'-0"<br>1284"=1'-0"<br>1296"=1'-0"<br>1308"=1'-0"<br>1320"=1'-0"<br>1332"=1'-0"<br>1344"=1'-0"<br>1356"=1'-0"<br>1368"=1'-0"<br>1380"=1'-0"<br>1392"=1'-0"<br>1404"=1'-0"<br>1416"=1'-0"<br>1428"=1'-0"<br>1440"=1'-0"<br>1452"=1'-0"<br>1464"=1'-0"<br>1476"=1'-0"<br>1488"=1'-0"<br>1500"=1'-0"<br>1512"=1'-0"<br>1524"=1'-0"<br>1536"=1'-0"<br>1548"=1'-0"<br>1560"=1'-0"<br>1572"=1'-0"<br>1584"=1'-0"<br>1596"=1'-0"<br>1608"=1'-0"<br>1620"=1'-0"<br>1632"=1'-0"<br>1644"=1'-0"<br>1656"=1'-0"<br>1668"=1'-0"<br>1680"=1'-0"<br>1692"=1'-0"<br>1704"=1'-0"<br>1716"=1'-0"<br>1728"=1'-0"<br>1740"=1'-0"<br>1752"=1'-0"<br>1764"=1'-0"<br>1776"=1'-0"<br>1788"=1'-0"<br>1800"=1'-0"<br>1812"=1'-0"<br>1824"=1'-0"<br>1836"=1'-0"<br>1848"=1'-0"<br>1860"=1'-0"<br>1872"=1'-0"<br>1884"=1'-0"<br>1896"=1'-0"<br>1908"=1'-0"<br>1920"=1'-0"<br>1932"=1'-0"<br>1944"=1'-0"<br>1956"=1'-0"<br>1968"=1'-0"<br>1980"=1'-0"<br>1992"=1'-0"<br>2004"=1'-0"<br>2016"=1'-0"<br>2028"=1'-0"<br>2040"=1'-0"<br>2052"=1'-0"<br>2064"=1'-0"<br>2076"=1'-0"<br>2088"=1'-0"<br>2100"=1'-0"<br>2112"=1'-0"<br>2124"=1'-0"<br>2136"=1'-0"<br>2148"=1'-0"<br>2160"=1'-0"<br>2172"=1'-0"<br>2184"=1'-0"<br>2196"=1'-0"<br>2208"=1'-0"<br>2220"=1'-0"<br>2232"=1'-0"<br>2244"=1'-0"<br>2256"=1'-0"<br>2268"=1'-0"<br>2280"=1'-0"<br>2292"=1'-0"<br>2304"=1'-0"<br>2316"=1'-0"<br>2328"=1'-0"<br>2340"=1'-0"<br>2352"=1'-0"<br>2364"=1'-0"<br>2376"=1'-0"<br>2388"=1'-0"<br>2400"=1'-0"<br>2412"=1'-0"<br>2424"=1'-0"<br>2436"=1'-0"<br>2448"=1'-0"<br>2460"=1'-0"<br>2472"=1'-0"<br>2484"=1'-0"<br>2496"=1'-0"<br>2508"=1'-0"<br>2520"=1'-0"<br>2532"=1'-0"<br>2544"=1'-0"<br>2556"=1'-0"<br>2568"=1'-0"<br>2580"=1'-0"<br>2592"=1'-0"<br>2604"=1'-0"<br>2616"=1'-0"<br>2628"=1'-0"<br>2640"=1'-0"<br>2652"=1'-0"<br>2664"=1'-0"<br>2676"=1'-0"<br>2688"=1'-0"<br>2700"=1'-0"<br>2712"=1'-0"<br>2724"=1'-0"<br>2736"=1'-0"<br>2748"=1'-0"<br>2760"=1'-0"<br>2772"=1'-0"<br>2784"=1'-0"<br>2796"=1'-0"<br>2808"=1'-0"<br>2820"=1'-0"<br>2832"=1'-0"<br>2844"=1'-0"<br>2856"=1'-0"<br>2868"=1'-0"<br>2880"=1'-0"<br>2892"=1'-0"<br>2904"=1'-0"<br>2916"=1'-0"<br>2928"=1'-0"<br>2940"=1'-0"<br>2952"=1'-0"<br>2964"=1'-0"<br>2976"=1'-0"<br>2988"=1'-0"<br>3000"=1'-0"<br>3012"=1'-0"<br>3024"=1'-0"<br>3036"=1'-0"<br>3048"=1'-0"<br>3060"=1'-0"<br>3072"=1'-0"<br>3084"=1'-0"<br>3096"=1'-0"<br>3108"=1'-0"< |
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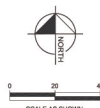






This form has been electronically signed and sealed by Gregory T. Chateau, P.E. on the line & date stamp shown; using digital signature. Printed copies of this document are not considered signed and need not, and the signature must be verified on any electronic copies.

Digitally signed by Gregory T Chatelain  
Date: 2024.05.02 10:17:20 -04'00'



DEVELOPMENT REVIEW  
COMMITTEE  
MARION COUNTY, FLORIDA

APPLICATION #: 30183  
APPROVAL DATE: 6/17/2  
EXPIRATION DATE: 6/17/2

All construction shall conform to the construction standards contained in the Marion County Land Development Code, latest revision. Areas of the right-of-way disturbed during construction shall be dressed and sodded. Seed and mulch may be used if approved by the County Engineer or

**NOTICE**  
The approval of these plans for construction under the jurisdiction of the County and does not substitute the requirements of other agency permits, as applicable, by the applicant.

COUNTY

|         |         |               |                 |                 |                                                        |                                                                                                                                      |                                                                                                                                                              |                                          |                                          |
|---------|---------|---------------|-----------------|-----------------|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------------------------------|
| SWPPP-2 | FLORIDA | MARION COUNTY | MAJOR SITE PLAN | OCALA, FL 34472 | EROSION CONTROL & STORMWATER POLLUTION PREVENTION PLAN | SCALE: AS NOTED<br>DESIGNED BY GTC<br>DRAWN BY GTC<br>OWNER: KERR RENTALS<br>PHONE: 907-774<br>FAX: 907-779<br>E-MAIL: KERR@KERR.COM | DESIGN NUMBER: 90573<br>DESIGNER: LINN ENGINEERING<br>ADDRESS: 13801 OMAHA, NE 68134<br>PHONE: 402-377-1184<br>FAX: 402-377-1189<br>E-MAIL: LINN@LINN-NE.COM | A REVISION FOR CITY COMMENTS<br>07/20/23 | A REVISION FOR CITY COMMENTS<br>07/20/23 |
|         |         |               |                 |                 |                                                        |                                                                                                                                      |                                                                                                                                                              | NO. REVISIONS: 00                        | DATE: 07/20/23                           |



LYNX SURVEYORS CORP

LAND SURVEYORS  
AND MAPPER LB 8469

302 LAUREL ROAD EAST UNIT 201  
LAUREL, FLORIDA 34472

833-721-2907  
info@lynxsurveyors.com  
www.lynxsurveyors.com

0 25' 50'

1" = 50'

GRAPHIC SCALE

PROPERTY AND OWNER INFORMATION

PROPERTY ADDRESS  
XXXX MIDWAY TERRACE  
OCALA, FL 34472

PARCEL ID:  
9007-0101-18  
COUNTY / STATE:  
MARION COUNTY

FLOOD ZONE INFORMATION:

COMMUNITY NO.: 120180  
FIELD DATE: 09/11/2023  
SUFFIX: D  
DRAWN DATE: 02/07/2024  
EFFECTIVE DATE: 08/28/2008  
DRAWN BY: A.V.  
FLOOD ZONE: X  
CHECKED BY: J.L.  
B.F.E.: N/A

LEGAL DESCRIPTION:

LOT 18, BLOCK "101", SILVER SPRING SHORES UNIT NO. 7,  
according to the map or plat thereof as recorded in Plat Book J,  
Pages 54 through 102, inclusive, of the Public Records of MARION  
COUNTY, Florida.

CERTIFIED TO:

ALEJANDRO GUTIERREZ

ALEJANDRO GUTIERREZ, BY SUCCESSION ANDOR ASSENS AND THE DEPARTMENT OF  
HOUSING AND URBAN DEVELOPMENT AS THEIR INTERESTS MAY APPEAR.

SURVEYOR'S NOTES

1. LEGAL DESCRIPTION PROVIDED BY OTHERS, NO EXAMINATION OF TITLE MADE  
BY SURVEYOR. THE LANDS SHOWN HEREON WERE NOT ABSTRACTED FOR  
EASEMENTS OR OTHER RECORDED ENCUMBRANCES NOT SHOWN ON THE PLAT.  
2. THIS CERTIFICATION IS ONLY FOR THE LANDS DESCRIBED. IT IS NOT A  
CERTIFICATION OF TITLE, ZONING, EASEMENTS OR FREEDOM FROM  
ENCUMBRANCES OR INTERESTS, OR RIGHT-OF-WAY.  
3. UNDERGROUND PORTIONS OF FOOTING, FOUNDATIONS OR OTHER  
IMPROVEMENTS WERE NOT LOCATED, WILL BE TO THE FACE OF THE WALL,  
AND ARE NOT TO BE USED TO RECONSTRUCT BOUNDARY LINES.  
4. NOT VALID WITHOUT THE SIGNATURE & ORIGINAL, SIGNED SEAL OF A FLORIDA  
LICENSED SURVEYOR AND MAPPER, ONLY VISIBLE ENCUMBRANCES LOCATED.  
5. THIS SURVEY IS INTENDED FOR CONSTRUCTION PURPOSES ONLY.  
6. THIS SURVEY IS NOT TO BE USED FOR CONSTRUCTION, PERMITTING OR DESIGN, ANY OTHER USE IS  
NOT VALID WITHOUT WRITTEN CONSENT.  
7. ONLY IMPROVEMENTS SHOWN WHERE LOCATED, WE DO NOT DETERMINE WHO  
OWN THE FENCES, TREES OR ANY OTHER IMPROVEMENTS.  
8. DIMENSIONS ARE IN FEET AND DECIMALS THEREOF.  
9. PARCEL SUBJECT TO EASEMENTS, RESTRICTIONS, RESERVATIONS, AND  
RIGHT-OF-WAYS OF RECORD.  
10. EASEMENTS SHOWN ON THIS DRAWING ARE FROM THE RECORDED PLAT.  
ANY OTHER EASEMENT (S) PERTAINING TO THE HEREON DESCRIBED LAND (S)  
MUST BE FURNISHED TO THE SURVEYOR BY THE CLIENT OR THE CLIENTS AGENT  
PER FLORIDA STATUTE CHAPTER 64-17 OF THE FLORIDA ADMINISTRATIVE CODE.  
11. ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN  
THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT  
OF THE SIGNING PARTY OR PARTIES.  
12. PARCEL WAS SURVEYED FROM INFORMATION SUPPLIED BY THE CLIENT.  
13. THE ACCURACY OF CONTROL SURVEY DATA SHALL BE VERIFIED BY  
REDUNDANT MEASUREMENTS OR TRAVERSE CLOSURES. ALL CONTROL  
MEASUREMENTS SHALL ACHIEVE THE FOLLOWING CLOSURES:  
COMMERCIAL/URBAN RISK LINEAR: 1 FOOT IN 10,000 FEET; SUBURBAN LINEAR: 1  
FOOT IN 5,000 FEET; RURAL LINEAR: 1 FOOT IN 5,000 FEET.  
14. BEARINGS AND DISTANCES SHOWN HEREON AS "N123456" (angle) (distance)  
ARE MEASURED BY GPS OBSERVATIONS (STATE PLANE COORDINATE SYSTEM NAD83)  
PLACEMENT BASED ON BEARING IS BASED UPON N 42°42'52" W ALONG THE  
CENTRAL LINE OF MIDWAY TERRACE AS PLATTED.  
15. ELEVATIONS SHOWN HEREON ARE BASED UPON NAVD83 DATUM,  
BENCHMARK USED (ASSUMED) BY GPS OBSERVATION WITH ELEVATION OF 87.36.  
16. ELEVATIONS SHOWN HEREON ARE BASED UPON NAVD83 DATUM,  
BENCHMARK USED (ASSUMED) BY GPS OBSERVATION WITH ELEVATION OF 87.36.

Digitally signed by Gustavo  
Interian  
Date: 2024.02.08 12:40:59  
-05'00'

GUSTAVO INTERIAN  
PROFESSIONAL SURVEYOR AND MAPPER PSB 6481

JOB NUMBER: LS231151

BOUNDARY & TOPOGRAPHIC SURVEY

LINE DETAILS:

L-1  
N42°42'52"W 100.00' P.  
N42°42'18"W 99.91' M.

L-2  
S42°42'52"E 100.00' P.  
S42°39'46"E 99.75' M.

L-3  
N42°42'52"W 100.00' P.  
N42°42'18"W 99.91' M.

L-4  
N42°42'52"W 100.00' P.  
N42°42'18"W 99.91' M.

L-5  
N42°42'52"E 100.00' P.  
N42°42'18"E 99.91' M.

L-6  
N42°42'52"E 100.00' P.  
N42°42'18"E 99.91' M.

L-7  
N47°17'08"E 30.00' P.  
N47°16'11"E 30.00' C.

L-8  
N42°42'52"W 3081.89' P.  
N42°42'38"W 3081.89' C.

L-9  
N42°42'52"W 100.00' P.  
N42°42'22"E 1236.33' C.

L-10  
S42°42'52"E 1236.33' P.  
S38°10'30"E 7.78' C.

L-11  
S42°42'52"E 8.12' P.  
S38°10'30"E 7.78' C.

DEVELOPMENT REVIEW  
COMMITTEE  
MARION COUNTY, FLORIDA

APPLICATION NO: 30183  
APPROVAL DATE: 6/17/24  
EXPIRATION DATE: 6/17/26

All construction shall conform to the construction standards contained in the Marion County Land Development Code, latest revision. Areas of the right-of-way disturbed during construction shall be dressed and sodded. Seed and mulch may be used if approved by the County Engineer or designer.

NOTICE  
The approval of these plans is limited to construction under the jurisdiction of Marion County and does not substitute nor waive the requirements of other agencies for additional permits, as applicable to state and/or federal laws.

GROUND COORDINATE TABLE

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TREES DESCRIPTION

TREE NO.

TYPE

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OAK - PALM - PINE - TREE

COVERED AREA

CONCRETE

BRICK / PAVEMENT

WALL

WOOD

GRAVEL/STONE

ASPHALT



[illegible][illegible]

1. CONTRACTOR TO CLEAN, RAKE AND DEWEED AREAS OF EXISTING VEGETATION AS DIRECTED BY OWNERS AND LANDSCAPE ARCHITECT.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING EXISTING VEGETATION TO EXPOSE AND PREPARING THE UNDERLYING SOIL TO ACCEPT THE NEW PLANTING.
3. THE LANDSCAPE ARCHITECT IS RESPONSIBLE FOR BACKFILLING NEW AREAS AND UNLIMITED PERMANENT PLANTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING PLANTING, PERMANENT BEDS AND CONSIDERS TO REMOVE INJURY, BUT NOT REMOVE OR NOT REPAIR PLANTING DAMAGE TO EXISTING PLANTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING PLANTING, PERMANENT BEDS AND CONSIDERS TO REMOVE INJURY, BUT NOT REMOVE OR NOT REPAIR PLANTING DAMAGE TO EXISTING PLANTING.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING PLANTING, PERMANENT BEDS AND CONSIDERS TO REMOVE INJURY, BUT NOT REMOVE OR NOT REPAIR PLANTING DAMAGE TO EXISTING PLANTING.
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6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING PLANTING, PERMANENT BEDS AND CONSIDERS TO REMOVE INJURY, BUT NOT REMOVE OR NOT REPAIR PLANTING DAMAGE TO EXISTING PLANTING.
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[illegible][illegible][illegible]

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|--------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|
| <div> <div>COMMITTEE</div> <div>DATE</div> </div>                                                |  | <div> <div>APPROVAL DATE</div> <div>EXPIRATION DATE</div> </div>                    |  |
| <div>  </div> |  | <div> <div>SECTION</div> <div>DETAIL REFERENCE</div> <div>SHEET NUMBER</div> </div> |  |
| <div> <div>PLAN ENLARGEMENT</div> <div>DETAIL NAME</div> </div>                                  |  | <div> <div>PLAN ENLARGEMENT</div> <div>DETAIL NAME</div> </div>                     |  |
| <div> <div>DETAIL ENLARGEMENT</div> <div>DETAIL ENLARGEMENT REFERENCE</div> </div>               |  | <div> <div>DETAIL ENLARGEMENT</div> <div>DETAIL ENLARGEMENT REFERENCE</div> </div>  |  |
| <div> <div>SHEET NUMBER</div> <div>SHEET NUMBER</div> </div>                                     |  | <div> <div>MATCH LINE</div> <div>MATCH LINE</div> </div>                            |  |
| <div> <div>FINISH ITEM</div> <div>FINISH SCHEDULE</div> </div>                                   |  | <div> <div>FINISH REFERENCE</div> <div>FINISH SCHEDULE</div> </div>                 |  |

|                                                                                       |                                        |
|---------------------------------------------------------------------------------------|----------------------------------------|
|   | PLANT TAG<br>SYMBOL<br>QUANTITY        |
|  | EXISTING CONTOUR                       |
|  | PROPOSED CONTOUR                       |
|  | STORMWATER FLOW DIRECTION              |
|  | SLOPE DIRECTION<br>PERCENTAGE OR RATIO |

N 1493661.5115  
E 447667.7445

COORDINATE REFERENCE

**CONTRACTOR NOTES**

NOT ALL ITEMS SHOWN ON THIS SHEET APPEAR IN THE CONSTRUCTION DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS RELATED TO CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, BUILDING, LANDSCAPE, AND/OR OTHERS AS REQUIRED BY LOCAL, STATE, AND FEDERAL AGENCIES.

1. IT IS THE INTENT OF THIS DESIGN TO COMPLY WITH ALL APPLICABLE LOCAL AND STATE BUILDING CODES, ALL EDITIONS OF THE FLORIDA BUILDING CODE 2023 (5TH ED) NATIONAL ELECTRIC CODE 2023

1. WIND DESIGN LOAD INFORMATION (TO BE CONFIRMED BY ENGINEER OF RECORD)  
(PER IBC 2020 76 EDITION CHAPTER 16, REF. ASCE 7-16)

BASIC WIND SPEED ( $V_{WS}$ ) = 140 MPH (3 SECOND GUST)  
( $V_{WS}$ ) = 95 MPH (3 SECOND GUST)

STRUCTURE CATEGORY = B (ASCE 7-16)

WIND EXPOSURE (ALL SIDES) = C (ASCE 7-16)

CF = 1.4

# tbc

## DESIGN STUDIO

LANDSCAPE ARCHITECTURE  
COMMUNITY PLANNING  
STEAM DESIGN

1514 E. WALCROFT STREET STE. 105  
CHANDLER, AZ 85024 (PH) 480-954-4505

We warrant that the design and construction of the project shall conform to the applicable codes and standards of the State of Arizona and the City of Chandler. We warrant that the design and construction of the project shall conform to the applicable codes and standards of the State of Arizona and the City of Chandler. We warrant that the design and construction of the project shall conform to the applicable codes and standards of the State of Arizona and the City of Chandler.

PROJECT:

MIDWAY TERRACE APTS

LOT 18

MARION COUNTY, FL

Prepared For:

LUNN ENGINEERING

SHEET:

1

OF

1

CONTRACT NO.

DATE

PROJECT NO.

DESIGNED BY

DRAWN BY

CHECKED BY

DATE

DRAWING SCALE

DRAWING TITLE

INDEX SHEET

DRAWING NUMBER

ID-01

SHEET

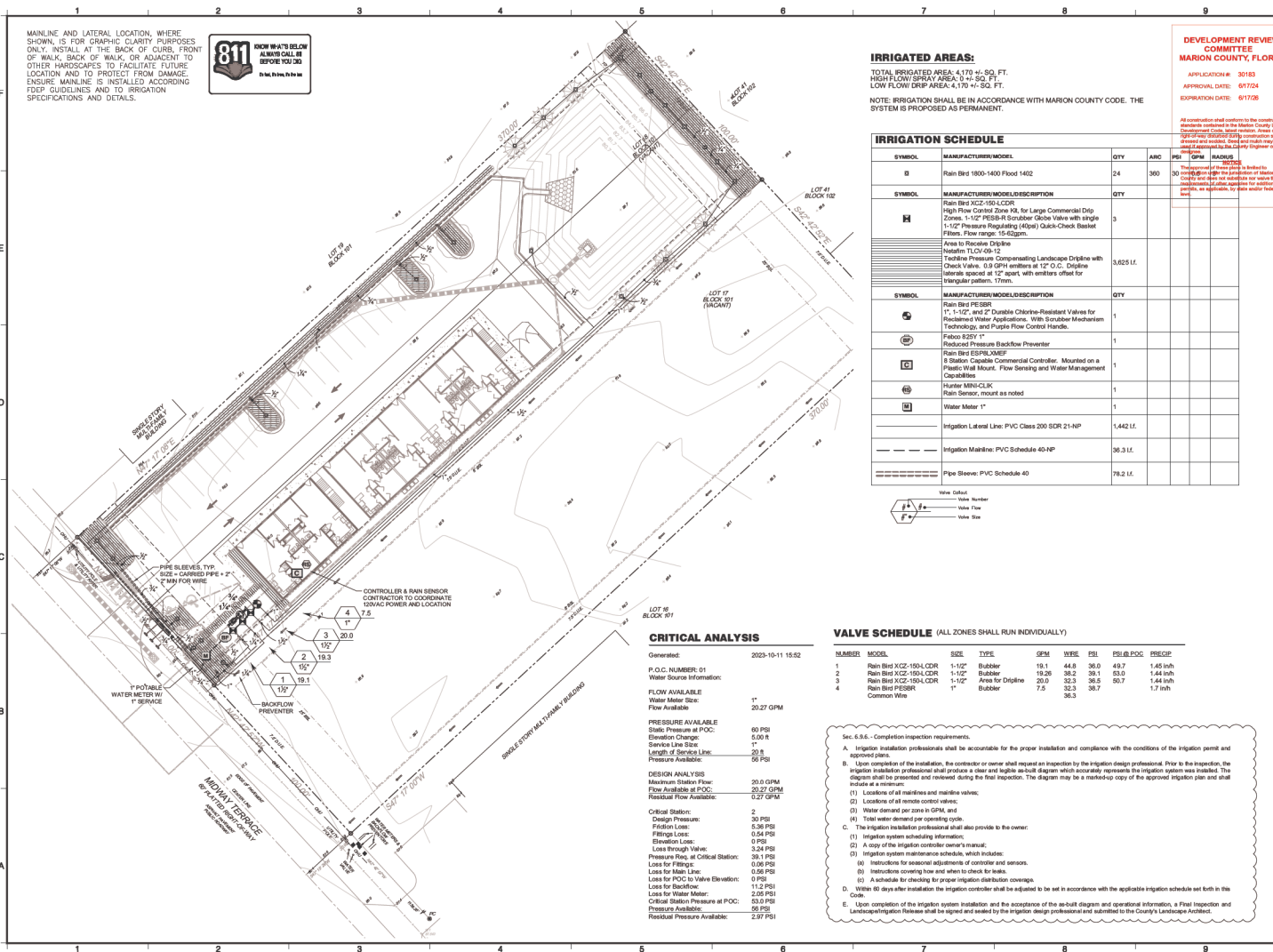
SHEET

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



#### IRRIGATED AREAS:

TOTAL IRRIGATED AREA: 4,170 +/- SQ. FT.  
HIGH FLOW SPRAY AREA: 31 +/- SQ. FT.  
LOW FLOW DRIP AREA: 4,170 +/- SQ. FT.

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

#### DEVELOPMENT REVIEW COMMITTEE

MARION COUNTY, FLORIDA

APPLICATION #: 30183

APPROVAL DATE: 6/17/24

EXPIRATION DATE: 6/17/28

All construction shall conform to the conditions and requirements contained in the Marion County Code, Development Code, Water Ordinance, and the Florida Department of Transportation (FDOT) specifications for drainage and related work. Plans and materials must be approved by the County Engineer of Marion County.

Installation of these plans shall be in accordance with the provisions of the Marion County Code, Development Code, Water Ordinance, and the Florida Department of Transportation (FDOT) specifications for drainage and related work. Plans and materials must be approved by the County Engineer of Marion County.

#### IRRIGATION SCHEDULE

| SYMBOL | MANUFACTURER/MODEL                                                                                                                                                                                                     | QTY      | ARC | PSI | GPM | RADIUS |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----|-----|-----|--------|
| B      | Rain Bird 1800-1400 Flood 1402                                                                                                                                                                                         | 24       | 360 |     |     | 180' C |
| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION                                                                                                                                                                                         | QTY      |     |     |     |        |
| H      | Rain Bird XCC-150-LCDR High Flow Control Zone Kit, for Large Commercial Drip Zones, 1-1/2" PESB-R Scrubber-Globe Valve with single 1-1/2" Pressure Regulating (40psi) Quick-Check Basket Filter. Flow range: 15-40gpm. | 3        |     |     |     |        |
|        | Area to Receive Dripline                                                                                                                                                                                               |          |     |     |     |        |
|        | Headline T10-09-12                                                                                                                                                                                                     |          |     |     |     |        |
|        | Headline Pressure Compensating Landscape Dripzone with Check Valve, 0.5 GPM emitters at 12" O.C. Dripzone emitters spaced at 12" apart, with emitters offset for triangular pattern, 17mm.                             | 3,625 LF |     |     |     |        |
| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION                                                                                                                                                                                         | QTY      |     |     |     |        |
|        | Rain Bird PESBR 1", 1-1/2", and 2" Double Check-Resistant Valves for Recirculated Water Applications. With Scrubber Mechanism Technology, and Purple Flow Control Handle.                                              | 1        |     |     |     |        |
|        | Fabco 325V 1" Reduced Pressure Backflow Preventer                                                                                                                                                                      | 1        |     |     |     |        |
|        | Rain Bird ESP/MLAMP 8 Station Capable Commercial Controller. Mounted on a Plastic Wall Mount. Flow Sensing and Water Management Capabilities.                                                                          | 1        |     |     |     |        |
|        | Hunter MINI-CLIK Rain Sensor, mount as noted                                                                                                                                                                           | 1        |     |     |     |        |
|        | Water Meter 1"                                                                                                                                                                                                         | 1        |     |     |     |        |
|        | Irrigation Lateral Line: PVC Class 200 SDR 21-NP                                                                                                                                                                       | 1,442 LF |     |     |     |        |
|        | Irrigation Mainline: PVC Schedule 40-NP                                                                                                                                                                                | 36.3 LF  |     |     |     |        |
|        | Pipe Sleeve: PVC Schedule 40                                                                                                                                                                                           | 78.2 LF  |     |     |     |        |



#### CRITICAL ANALYSIS

Generated: 2023-10-11 15:52

P.O.C. NUMBER: 01

Water Source Information:

Flow Available:

Water Meter Size:

Pressure Available:

Static Pressure Available:

Elevation Change:

Service Line Size:

Length of Service Line:

Pressure Available:

Design Analysis:

Maximum Station Flow:

Flow Available at P.O.C.:

Residual Flow Available:

Critical Station:

Design Pressure:

Friction Loss:

Fittings Loss:

Elevation Loss:

Loss Through Valve:

Pressure Reg. at Critical Station:

Loss for Fittings:

Loss for Main Line:

Loss for P.O.C. to Valve Elevation:

Loss for Backflow:

Loss for Water Meter:

Critical Station Pressure at P.O.C.:

Pressure Available:

Residual Pressure Available:

#### VALVE SCHEDULE (ALL ZONES SHALL RUN INDIVIDUALLY)

| NUMBER | MODEL                  | SIZE   | TYPE              | SPM   | WHEEL | PSI @ P.O.C. | PSI @ P.O.C. |
|--------|------------------------|--------|-------------------|-------|-------|--------------|--------------|
| 1      | Rain Bird XCC-150-LCDR | 1-1/2" | Bubbler           | 19.1  | 44.8  | 36.0         | 48.7         |
| 2      | Rain Bird XCC-150-LCDR | 1-1/2" | Bubbler           | 19.26 | 38.2  | 39.1         | 53.0         |
| 3      | Rain Bird XCC-150-LCDR | 1-1/2" | Area for Dripzone | 20.0  | 32.3  | 36.5         | 50.7         |
| 4      | Rain Bird PESBR        | 1"     | Bubbler           | 7.5   | 32.3  | 36.7         | 1.7          |
|        | Common Wire            |        |                   |       |       |              |              |

Sec. 6.5.6 - Completion inspection requirements.

- Upon completion of the installation, the contractor or owner shall request an inspection by the irrigation design professional. Prior to the inspection, the irrigation design professional shall produce a clear and legible as-built diagram which accurately represents the irrigation system as installed. The diagram shall be presented, and reviewed during the final inspection. The diagram may be a marked-up copy of the approved irrigation plan and shall include at a minimum:
  - Locations of all mainline and lateral valves;
  - Locations of all remote control valves;
  - Water demand per zone in GPM, and
  - Total water demand per operating cycle.
- The irrigation design professional shall also provide to the owner:
  - Irrigation system scheduling information;
  - A copy of the irrigation controller owner's manual;
  - Irrigation system maintenance schedule, which includes:
    - Instructions for seasonal adjustments of controller and sensors;
    - Instructions covering how and when to check for leaks;
    - A schedule for checking for proper irrigation distribution coverage.
  - A schedule for checking for proper irrigation distribution coverage.
- Upon completion of the irrigation system installation and the acceptance of the as-built diagram and operational information, a Final Inspection and Landscaping/Irrigation Release shall be signed and sealed by the irrigation design professional and submitted to the County's Landscape Architect.



LANDSCAPE ARCHITECTURE  
COMMUNITY PLANNING  
DESIGN

MIDWAY TERRACE APTS  
LOT 18  
MARION COUNTY, FL  
Prepared For:  
LINN ENGINEERING

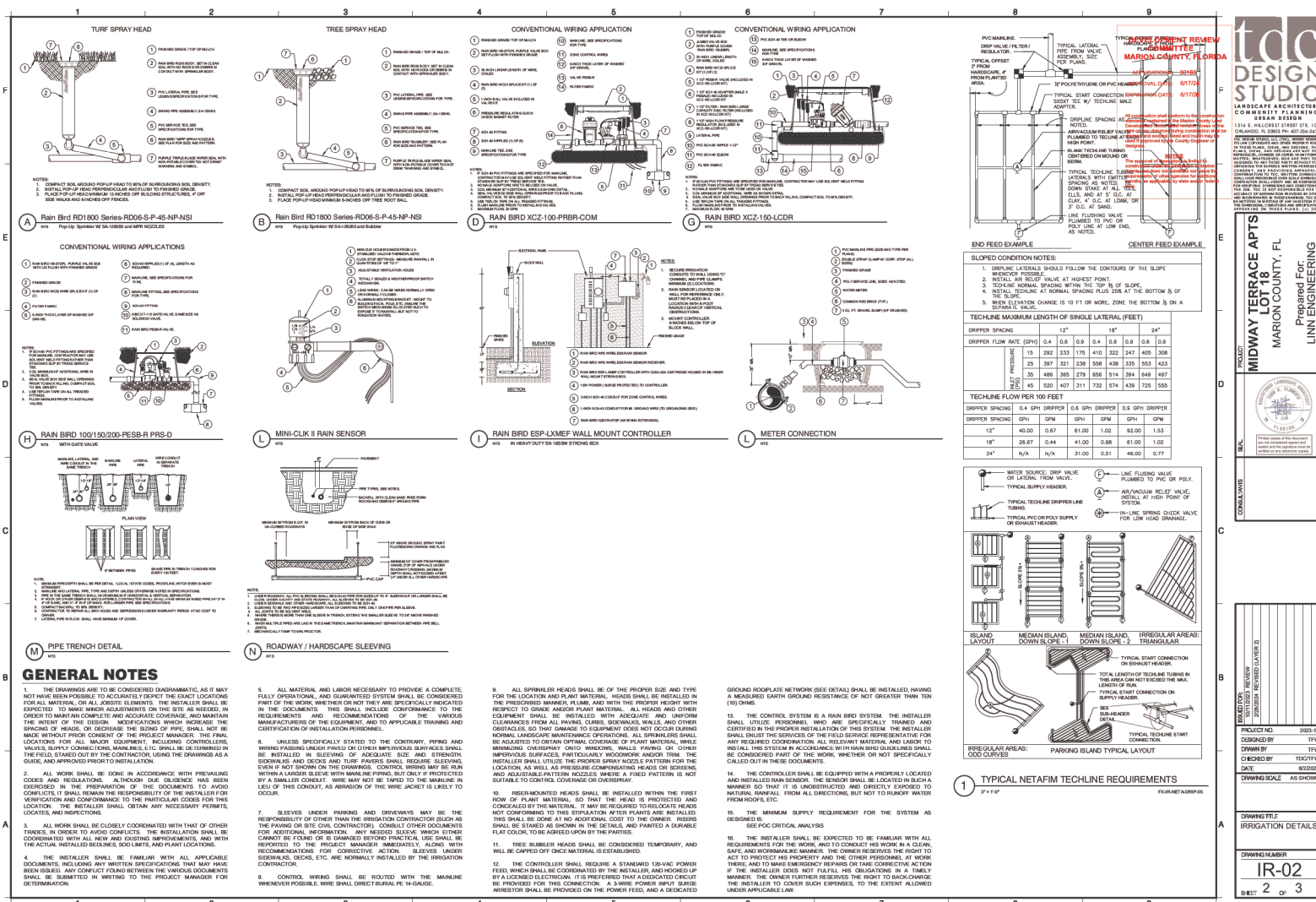


PROJECT  
MIDWAY TERRACE APTS  
LOT 18  
MARION COUNTY, FL  
PREPARED FOR  
LINN ENGINEERING

DATE  
6/17/24  
DRAWN BY  
TDC/TFW  
CHECKED BY  
TDC/TFW  
SCALE  
AS SHOWN

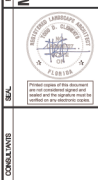
PROJECT NO.  
2023-17  
DESIGNED BY  
TFW  
OWNED BY  
TDC/TFW  
DATE  
6/17/24  
DRAWING SCALE  
AS SHOWN

DRAWING NUMBER  
IR-01  
SHEET  
1 OF 3



**tdc DESIGN STUDIO**  
LANDSCAPE ARCHITECTURE  
COMMUNITY PLANNING  
DESIGN STUDIO  
1514 E. HULBERT STREET STE. 105  
CORONA, FL 33438-4455  
TEL: 407.261.1111  
WWW.TDCDESIGNSTUDIO.COM

**Midway Terrace Apts  
Lot 18**  
MARION COUNTY, FL  
Prepared For:  
LINN ENGINEERING



**PROJECT INFORMATION**  
PROJECT: MIDWAY TERRACE APTS LOT 18  
LOCATION: MARION COUNTY, FL  
DATE: 02/03/25  
DRAWN BY: TDC/THW  
CHECKED BY: TDC/THW  
DATE: 02/03/25  
DRAWING SCALE: AS SHOWN

**DRAWING TITLE**  
IRRIGATION DETAILS  
**DRAWING NUMBER**  
IR-02  
**SHEET** 2 of 3



|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |   |   |   |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|---|---|---|
|   | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|   | IRRIGATION NOTES & SPECIFICATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |   |   |   |   |   |   |   |   |
| F | Irrigation design based on the TDC Design Studio Landscape Plan dated 7/19/2021. Contractor shall refer to these plans to coordinate sprinkler and pipe locations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |   |   |   |   |   |   |
|   | The system has been designed to conform with the requirements of all applicable codes, laws, ordinances, rules, regulations and conventions. Should any conflict exist, the requirements of the codes shall prevail. It is the responsibility of the owner/installation contractor to ensure the entire system is installed as designed. The installation contractor responsible for obtaining all required permits according to federal, state and local laws.                                                                                                                                                                                                                                |   |   |   |   |   |   |   |   |
|   | The scope of work specified on these plans, notes and details. The Irrigation Contractor shall be certified as a CERTIFIED IRRIGATION CONTRACTOR by the Irrigation Association. The certification shall be current and in good standing.                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |   |   |   |   |   |   |
|   | THE WORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |   |   |   |   |   |   |
|   | The work specified in this section consists of furnishing all components necessary for the installation, testing, and delivery of a complete, fully functional automatic landscape irrigation system that complies with the irrigation plans, specifications, notes, and details. This work shall include, but not be limited to, the providing of all required material (sprinklers, backflows, pipes, valves, fittings, controllers, wire, primer, glue, etc.), layout, protection to the public, excavation, assembly, installation, backfill, fitting, compacting, repair of most surface, controller and low voltage feeds to valves, cleanup, maintenance, guarantee and as-built plans. |   |   |   |   |   |   |   |   |
|   | All irrigated areas shall provide 100% head-to-head coverage from a fully automatic irrigation system with a rain (and freeze as appropriate) shut off device. If the rain shut off device is a rain sensor, it shall be installed to prevent activation by adjacent heads. Zones are prioritized first by public safety and then by hydrologic concerns. This sequencing will be a mandatory punch list item.                                                                                                                                                                                                                                                                                 |   |   |   |   |   |   |   |   |
| E | These plans have been designed to satisfy/oversee the Florida Irrigation Society Standards and Specifications for Turf and Landscape Irrigation Systems, fourth edition. All products should be installed per manufacturer's recommendation. Contractor shall verify all underground utilities 72 hours prior to commencement of work.                                                                                                                                                                                                                                                                                                                                                         |   |   |   |   |   |   |   |   |
|   | It is the responsibility of the irrigation contractor to familiarize themselves with all grade differences, location of walls, retaining walls, structures and utilities. Do not willfully install the sprinkler system as shown on the drawings when it is obvious in the field that unknown obstructions, grade differences or differences in the area dimensions exist that might not have been considered in the engineering. Such obstructions, or differences, should be brought to the attention of the owner's authorized representative. In the event this notification is not performed, the irrigation contractor shall assume full responsibility for any reliance necessary.      |   |   |   |   |   |   |   |   |
| D | Irrigation contractor shall repair or replace all items damaged by their work. Irrigation contractor shall coordinate their work with other contractors for the location and installation of pipe sleeves and lateral through walls, under roadways and paving, etc.                                                                                                                                                                                                                                                                                                                                                                                                                           |   |   |   |   |   |   |   |   |
|   | The contractor shall take immediate steps to repair, replace, or restore all services to any utilities which are disrupted due to their operations. All costs involved in disruption of service and repairs due to negligence on the part of the contractor shall be their responsibility.                                                                                                                                                                                                                                                                                                                                                                                                     |   |   |   |   |   |   |   |   |
|   | POINT OF CONNECTION (P.O.C.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |   |   |   |   |   |   |   |   |
|   | There is ONE P.O.C. (s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |   |   |   |   |   |   |   |
|   | #1-P.O.C. is a new 1" potable meter (by others) with a 1" service line by others. The P.O.C. must be capable of delivering a minimum of 20 GPM at 60 PSI downstream of the water meter.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |   |   |   |   |   |   |   |
| C | Contractor to verify these minimum conditions can be met prior to ordering of materials and the beginning of installation. If the conditions can not be met, the contractor must notify the designer prior to proceeding with the work. If the contractor does not do so, the contractor proceeds at their own risk and becomes responsible for any future work required to make the system perform as required.                                                                                                                                                                                                                                                                               |   |   |   |   |   |   |   |   |
|   | THE PIPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |   |   |   |   |   |   |
|   | Pipe locations shown on the plan are schematic and shall be adjusted in the field. When laying out mainlines place a maximum of 18" apart from either the back of curb, front of walk, back of walk, or other hardware to allow for ease in locating and protection from physical damage. Install all lateral pipe near edge of pavement or against buildings whenever possible to allow space for plant root balls. Always install piping inside project property's boundary.                                                                                                                                                                                                                 |   |   |   |   |   |   |   |   |
|   | All pipes are to be placed in planting beds. If it is necessary to have piping under hardscapes, such as roads, walls, and patios, the pipe must be sleeved using Class 200 PVC with the sleeve diameter being twice the size of the pipe it is carrying with a minimum sleeve size of 2".                                                                                                                                                                                                                                                                                                                                                                                                     |   |   |   |   |   |   |   |   |
| B | Pipe sizes shall conform to those shown on the drawings. No substitutions of smaller pipe sizes shall be permitted, but substitutions of larger sizes may be approved. All damaged and rejected pipe shall be removed from the site at the time of field rejection.                                                                                                                                                                                                                                                                                                                                                                                                                            |   |   |   |   |   |   |   |   |
|   | Mainline shall be Pantone Purple Sch 40 solvent-weld (zinc per plan) PVC with Sch 40 PVC solvent-weld fittings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |   |   |   |
|   | Contractor to ensure all mainline piping is properly restrained using mechanical joint fittings, restraining collars, threaded rods, tie-backs, etc., as and where required. Contractor shall refer to pipe manufacturers recommended installation practices for further direction.                                                                                                                                                                                                                                                                                                                                                                                                            |   |   |   |   |   |   |   |   |
|   | PVC pipe joint compound and primer: The PVC cement shall be Weld-On 711 grey, slow-drying, heavy duty and the primer shall be Weld-On P70 (purple tinted, compatible with electrical), or approved equals.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   |   |   |   |   |   |   |   |
|   | ELECTRICAL POWER SUPPLY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |   |   |   |   |   |   |   |
|   | Electrical supply for irrigation pumps, controllers, sensors, relays to be provided by irrigation contractor. Contractor to coordinate with local utilities for the installation of, and connection to, site available power supplies for required electrical components as set forth in the irrigation plans.                                                                                                                                                                                                                                                                                                                                                                                 |   |   |   |   |   |   |   |   |
| A | All electrical work is to comply with the National Electrical Code and any, and all, other applicable electrical codes, laws and regulations. A licensed electrician shall perform all electrical hook-ups. Power for each controller/PCU shall be a dedicated 120 volt, 20 amp circuit unless otherwise specified in the plans. Power for each pump to be according to pump specifications indicated in these plans.                                                                                                                                                                                                                                                                          |   |   |   |   |   |   |   |   |
|   | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

WIRING

Irrigation control wire shall be thermoplastic solid copper, single conductor, low voltage irrigation control wire; suitable for direct burial and continuous operation at rated voltages.

Tap and bundle control wires every 10' and run alongside the mainlines. At all turns in direction make a 2" cut of wire. At all wire loops cut wire around a 3/4" piece of PVC pipe to make a cut using 30 linear inches of wire. Make electrical connections with 3MM/5V/5V connectors.

Number all wires, using an electrical book of numbers, according to the plans. Number wires in all valve boxes, junction boxes and at the controller.

Wire sized, numbered and colored as follows:

- #14 white for common
- #14 spare black common
- #14 individual color coded hot wire
- #14 spare yellow hot wire

Spare wires

Leaving each controller, run six spare wires in both directions (twelve spare wires total). Install a 2 common spares (4 total) and 4 hot wires (8 total). Loop these wires into each RVC along their path and terminate in the last valve box controlled by the wires respective controller. The loop into each valve box shall extend up into the valve box a minimum of 6" and be readily accessible by opening the valve box lid. These wires must be all numbered and color coded as required in these plans.

Controller and Pump Station Control Panel Grounding - Contractor to utilize 4"X6"X8" copper grounding plates, 6"X12"X8" copper clad grounding rods, One Sinker CAD walls at all connection points, #16 bare copper wire, and earth contact material. Install these and other required components as outlined in the detail. Contractor to verify that the earth to ground resistance does not exceed 10 ohms. Contractor shall provide a written certification, on a licensed electrical contractors letter head, showing the date of the test, controller/pump location, and test results. Each controller/pump shall be so grounded and tested. Each component must have its own separate grounding grid, unless they are sitting side by side, in which case up to two controllers can share a common grounding grid.

LAYOUT

Lay out irrigation system mainlines and lateral lines. Make the necessary adjustments as required to take into account all site obstructions and limitations prior to excavating trenches. Stake all sprinkler head locations. Adjust location and make the necessary modifications to nozzle types, etc. required to ensure 100% head to head coverage. Refer to the Edge of Pavement Detail on the Irrigation Detail Sheet.

Spray heads shall be installed 4" from sidewalks or curbed roadways and 12" from uncurbed roadways and building foundations. Rotors shall be installed 4" from sidewalks or curbed roadways, 12" from building foundations, and 36" from uncurbed roadways.

Shrub heads shall be installed on 3/4" Sch 40 PVC risers. The risers shall be set at a minimum of 18" of sidewalk, roadway curbing, building foundations, and/or any other hardscaped areas. Shrub heads shall be installed to a standard height of 4" below maintained height of plants and shall be installed a minimum of 6" within planted masses to be less visible and offer protection. Paint all shrub risers with flat black or forest green paint, unless irrigation system will utilize reuse water; in this case the risers shall be purple PVC and shall not be painted.

Locate valves prior to excavation. Ensure that their location provides for easy access and that there is no interference with physical structures, plants, trees, poles, etc. Valve boxes must be placed a minimum of 12" and a maximum of 18" from the edge of pavement, curbs, etc. and the top of the box must be 2" above finish grade. No valve boxes shall be installed in turf areas without approval by the irrigation designer - only in shrub beds. Never install in sport field areas.

VALVES

Sequence all valves so that the farthest valve from the P.O.C. operates first and the closest to the P.O.C. operates last. The closest valve to the P.O.C. should be the last valve in the programmed sequence.

Adjust the flow control on each RVC to ensure shut off in 10 seconds after deactivation by the irrigation controller.

Using an electric branding iron, brand the valve I.D. letter/number on the lid of each valve box. This brand must be 2"-3" tall and easily legible.

EQUIPMENT

All pop-up heads and shrub risers shall be pressure compensating. All pop-up heads shall be mounted on flex-type swing joints. All rotors shall be installed with PVC piping using joints unless otherwise detailed.

All sprinkler equipment, not otherwise detailed or specified on these plans, shall be installed as per manufacturer's recommendations and specifications, and according to local and state laws.

TRENCHING

Excavate straight and vertical trenches with smooth, flat or sloping bottoms. Trench width and depth should be sufficient to allow the proper vertical and horizontal separation between pipes as shown in the pipe installation detail on the detail sheet.

Protect existing landscaped areas. Remove and replace any damaged plant material upon job completion. The replacement material shall be of the same genus and species, and of the same size as the material it is replacing. The final determination as to what needs to be replaced and the acceptability of the replacement material shall be solely up to the owner or owner's representative.

INSTALLATION

Solvent Weld Pipes: Cut all pipe square and deburr. Clean pipe and fittings of foreign material; then apply a small amount of primer while ensuring that any excess is wiped off immediately. Primer should not puddle or drip from pipe or fittings. Heat apply a thin coat of PVC cement; first apply this layer to the pipe, next a thin layer inside the fitting, and finally another very thin layer on the pipe. Insert the pipe into the fitting, insure that the pipe is inserted to the bottom of the fitting, then turn the pipe a 1/4 turn and hold for 10 seconds. Make sure that the pipe doesn't rotate from the fitting. If the pipe isn't at the bottom of the fitting upon completion, the glue joint is unacceptable and must be discarded.

Pipes must cure a minimum of 30 minutes prior to handling and placing into trenches. A longer curing time may be required; refer to the manufacturer's specifications. The pipe must cure a minimum of 24 hours prior to filling with water.

Gasfitted Pipes: With pipes in the trench, cut pipe square, deburr, and place beveled edge on male portion of pipe. If not using a piece with a factory bevel. Clean pipe and fittings of foreign material; then apply a small amount of pipe grease to the rubber gasket on the female end. Fully insert the male end of the pipe into the bed and of adjacent pipe until the female is fully seated into the bell. Restrain pipe as required.

BACK FILL

The Back fill IF below, 6" above, and around all piping shall be of clean sand and anything beyond that in the trench can be of native material but nothing larger than 2" in diameter.

Main line pipe depth measured to top of pipe shall be:

- 24" minimum for 3/4" X 1/2" PVC with a 30" minimum at vehicular crossings;
- 30" minimum for 1" X 1/2" PVC with a 30" minimum at vehicular crossings;
- 30" minimum for 1" X 1/2" PVC with a 30" minimum at vehicular crossings;
- 24" minimum for 1" PVC and above with a 30" minimum at vehicular crossings.

Lateral line depths measured to top of pipe shall be:

- 18" minimum for 3/4" X 1/2" PVC with a 30" minimum at vehicular crossings;
- 24" minimum for 1" PVC and above with a 30" minimum at vehicular crossings.

Contractor shall backfill all piping, both mainline and laterals, prior to performing any pressure tests. The pipe shall be backfilled with the exception of 2" on each side of every joint (ball fittings, 90's, tees, 45's, etc.). These joints shall not be backfilled until all piping has satisfactorily passed its appropriate pressure test as outlined below.

RUSHING

Prior to the placement of valves, flush all mainlines for a minimum of 10 minutes or until lines are completely clean of debris, whichever is longer.

Prior to the placement of heads, flush all lateral lines for a minimum of 10 minutes or until lines are completely clean of debris, whichever is longer.

Use screens in heads and adjust heads for proper coverage avoiding excess water on walks, walls and paving.

TESTING

Soil: At a minimum of 2 locations on the site, soil tests for infiltration and texture shall be performed according to the USDA Soil Quality Test Kit Guide. The tests shall be documented in a USDA Soil Worksheet. (All of the above is available at [http://info.usda.gov/gis/soilassessment/test\\_kit.htm](http://info.usda.gov/gis/soilassessment/test_kit.htm)) The completed worksheet shall be submitted to the owners representative for review/approval. Do not proceed without written direction from the owner/owner's representative.

Mainline: Remove all remote control valves and cap using a threaded cap on SCH 80 nipple. Fill mainline with water and pressurize the system to 125 PSI. Monitor the system pressure at two gauge locations; the gauge locations must be at opposite ends of the mainline. With the same respective pressures, monitor the gauges for two hours. There can be no loss in pressure at either gauge for solvent-welded pipe. For HDPE pipe, see HDPE notes. For gasfitted pipe, testing requires measurement of the water pumped into the mainline system, using a hydrostatic pump, to maintain 125 PSI - this water volume shall be no more than the result of the following formula:

L=H/D\*974/AD

where L=Volume leakage in gallons per hour  
H=Number of joints in pipe (inches)  
D=Nominal Pipe Diameter in (inches)  
A=Pressure Test Pressure in (PSI)

If these parameters are exceeded, isolate the problem; repair it; wait 24 hours and retry the test. This procedure must be followed until the mainline passes the test.

Lateral Lines: The lateral lines must be fully filled to operational pressure and visually checked for leaks. Any leaks detected must be repaired.

Operational Testing - Once the mainline and lateral lines have passed their respective tests, and the system is completely operational, a coverage test and demonstration of the system is required. The irrigation contractor must demonstrate to the owner, or higher representative, that proper coverage is obtained and the system works automatically from the controller. This demonstration requires each zone to be turned on, in the proper sequence as shown on the plans, from the controller. Each zone will be inspected for proper coverage and function. The determination of proper coverage and function is at the sole discretion of the owner or owner's representative.

Upon completion of the operational test, run each zone until water begins to puddle or overflow. This will allow you to determine the number of irrigation start times necessary to meet the weekly evapotranspiration requirements of the planting material in each zone. In the sandy soils, it is possible no puddling will occur. If this is experienced, then theoretical calculations for run times will be required for controller programming.

SUBMITTALS

Pre-Construction: The contractor must submit for written approval, prior to installation, five (5) copies of the manufacturer's cut sheet/specifications for all components to be used in the irrigation system.

After project completion:

As a condition of final acceptance, the irrigation contractor shall provide the owner with:

1. Irrigation As-Built - shall be provided utilizing a sub-foot Global Positioning System (GPS) to accurately locate all mainlines, sleeves, remote control valves, gate valves, independent wire runs, wire splices boxes, controllers, high voltage supply source/control path, control mechanisms, sensors, wells and water source connections in Florida East State Plans, NAD 83, and CORRS 98 format. The collected shall be in POINT format and include an ID for each data point with Manufacturer, Type, Size, and Depth. All mainline and

Independent runs of wire shall be located every 30' for straight runs and at every change of direction. Sleeves will be located at end points and every 20' of length. Coverage REVIEW shall include depth in inch format. These POINTS once collected shall be labeled according to Autocad DWG geo-referenced base file to be labeled according to the project name and location tested (using IR plan symbols), date, time, test method, and tested by the owner or owner's representative.

2. Controller charts - Upon completion of "as-built" prepare controller charts for the controller. Include on each chart the area controlled by a remote control valve/direct control valve for each zone. This chart shall be reduced to a size that will fit inside the controller cover. The reduction shall be hermetically sealed inside two zip ties of clear plastic.

3. Grounding Certification - Provide ground certification results for each controller and pump station panel grounding grid installed. This must be on a licensed electrical contractor's letterhead and location tested (using IR plan symbols), date, time, test method, and tested by the owner or owner's representative.

INSPECTIONS AND COORDINATION MEETINGS REQUIRED

1. Completion and acceptance of "as-built" drawings.
2. Mainline inspection (s) - all mainline must be inspected for proper pipe, fittings, depth of coverage, backfill, and installation method.
3. Mainline pressure test - All mainline shall be pressure tested according to this design's requirements.
4. Flow Meter Calibration - All flow meters must be calibrated, provide certified calibration report for all flow meters.
5. USDA Soil Quality Tests for infiltration/texture
6. Coverage and operational test.
7. Final inspection
8. Punch list inspection

FINAL ACCEPTANCE

First acceptance of the irrigation system will be given after the following documents and conditions have been completed and approved. Final payment will not be released until these conditions are satisfied.

1. All above inspections are completed, documented, and approved by owner.
2. Completion and acceptance of "as-built" drawings.
3. Acceptance of required controller charts and placement inside of controllers.
4. All other submittals have been made to the satisfaction of the owner.

GUARANTEE: The irrigation system shall be guaranteed for a minimum of one calendar year from the time of final acceptance.

MINIMUM RECOMMENDED IRRIGATION MAINTENANCE PROCEDURES

1. Every irrigation zone should be checked monthly and written reports generated describing the date(s) each zone was inspected, problems identified, date problems repaired, and a list of materials used in the repair. At minimum, these inspections should include the following tasks:

- A. Turn on each zone from the controller to verify automatic operation.
- B. Check schedules to ensure they are appropriate for the season, plant and soil type, and irrigation method. Consult an IA, certified auditor for methods used in determining proper irrigation scheduling requirements.
- C. Check remote control valve to ensure proper operation.
- D. Check setting on pressure regulator to verify proper setting. If present.
- E. Check flow control and adjust as needed; ensure valve closure within 10-15 seconds after deactivation by controller.
- F. Check for leaks - mainline, lateral lines, valves, heads, etc.
- G. Check all heads as follows:

1. Proper set height (top of sprinkler is 1" below head height)
2. Verify head pop-up height - 6" to 12" in ground cover, and pop-up on lawn in shrub beds.
3. Check wire seal for leaks - if leaking, clean head and re-inspect.
4. If still leaking, replace head with the appropriate head with pressure regulator and built-in check valve.
5. All nozzles checked for proper pattern, droppings, leaks, correct make & model, etc. - replace as needed.
6. Check for proper alignment - perfectly vertical; coverage area is correct; minimize over spray onto hardscapes.
7. Repair height/realign/rework to accommodate plant growth patterns and ensure proper coverage.
8. Verify the pop-up or riser retracts after operation. If not, repair/replace as needed.

2. Check controller/C.U. grounds for resistance (10 ohms or less) once per year. Submit written reports.
3. Check rain shut-off device monthly to ensure it functions properly.
4. Inspect all filters monthly and clean/repair/replace as needed.
5. Inspect backflow device by utilizing a properly licensed backflow inspector. This should be done annually, at minimum.
6. Inspect all valve boxes to ensure they are in good condition, lids are in place and locked.
7. Check pump stations for proper operation, pressures, filtration, settings, etc. - refer to pump station operations manual.
8. Check and clean intake screens on all suction lines quarterly, at minimum. Clean and/or repair, as needed.

9. Winterize, if applicable, as weather in your area dictates. Follow manufacturer recommendations and blow out all lines and equipment using compressed air. Perform seasonal start-up system as per manufacturer recommendations.

10. Conduct additional inspections, maintenance tasks, etc. that are particular for your site.



PREPARED FOR:  
LANN ENGINEERING



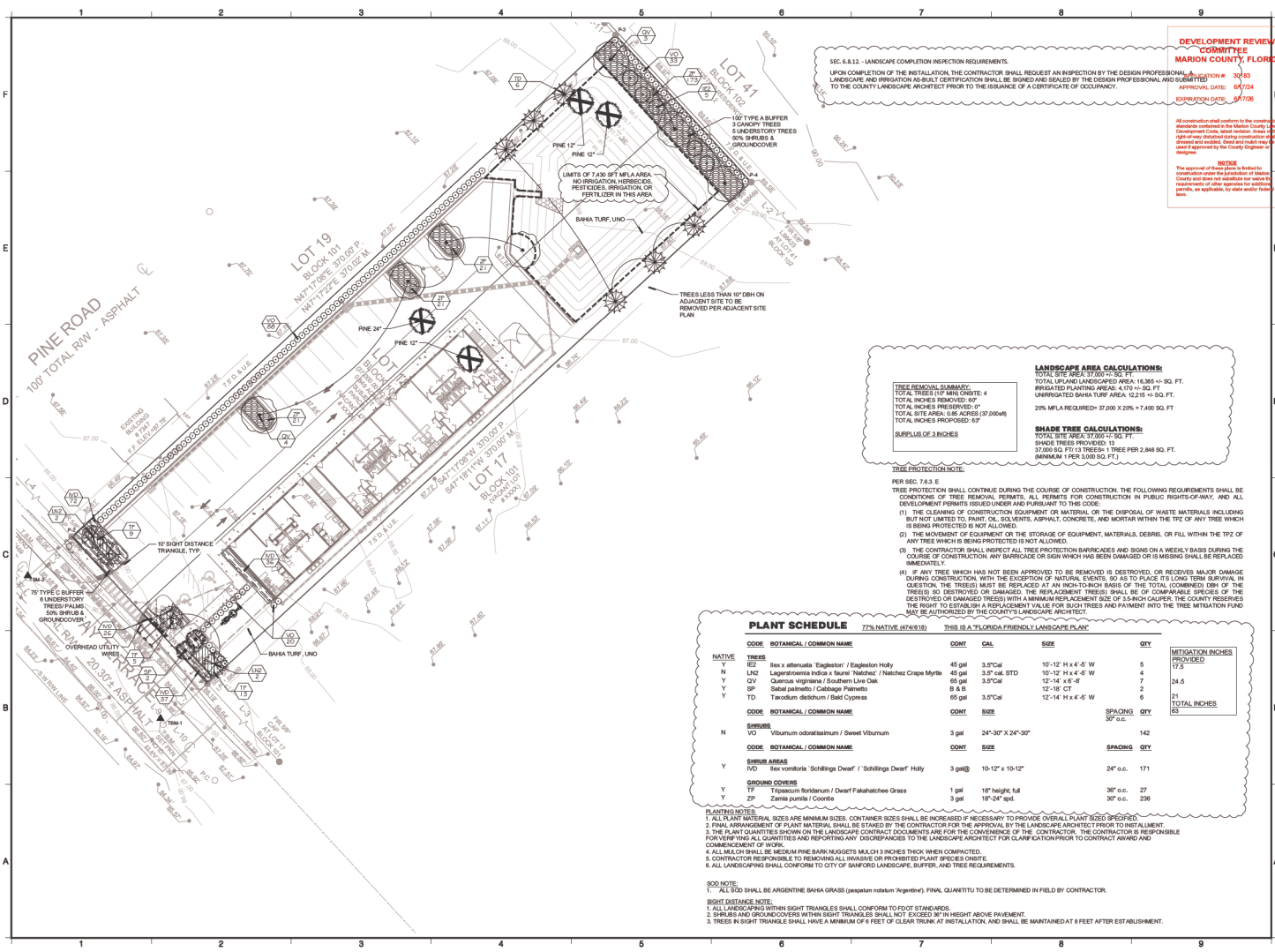
PROJECT: MIDWAY TERRACE APTS LOT 18 MARION COUNTY, FL

REVISIONS:  
REVISIONS  
DATE: 02/03/22  
DRAWN BY: TFW  
CHECKED BY: TDC/TFW  
DATE: 02/03/22  
DRAWING SCALE: AS SHOWN

PROJECT NO: 2023-17  
CONSIDERED BY: TFW  
DRAWN BY: TFW  
CHECKED BY: TDC/TFW  
DATE: 02/03/22  
DRAWING SCALE: AS SHOWN

DRAWING NUMBER  
IR-03  
SHEET 3 OF 3





**DEVELOPMENT REVIEW COMMITTEE**  
**MARION COUNTY, FLORIDA**  
APPROVAL DATE: 06/24  
EXPIRATION DATE: 07/28

All construction shall conform to the conditions of the permit. The applicant shall be responsible for obtaining all necessary permits from the Marion County Department of Public Works, Water Resources, and the Marion County Department of Planning and Development. The applicant shall also be responsible for obtaining all necessary permits from the Marion County Department of Public Works, Water Resources, and the Marion County Department of Planning and Development. The applicant shall also be responsible for obtaining all necessary permits from the Marion County Department of Public Works, Water Resources, and the Marion County Department of Planning and Development.

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

**LANDSCAPE AREA CALCULATIONS:**  
TOTAL SITE AREA: 17,000 SQ. FT.  
TOTAL UPLAND LANDSCAPED AREA: 16,385 +/- SQ. FT.  
TOTAL PLANTING AREA: 4,070 +/- SQ. FT.  
UNIRRIGATED BAHIA TURF: 12,215 +/- SQ. FT.  
20% MFLA REQUIRED: 27,000 X 20% = 7,400 SQ. FT.

**SHADE TREE CALCULATIONS:**  
TOTAL SITE AREA: 17,000 +/- SQ. FT.  
SHADE TREES PROVIDED: 13  
37,000 SQ. FT. IS TREES: 1 TREE PER 2,846 SQ. FT.  
(MINIMUM 1 PER 3,000 SQ. FT.)

**PLANT SCHEDULE**

PER SEC. 743.5

THIS PROTECTION SHALL CONTINUE DURING THE COURSE OF CONSTRUCTION. THE FOLLOWING REQUIREMENTS SHALL BE OBSERVED ON ALL CONSTRUCTION OF THESE REMODEL PERMITS, ALL PERMITS FOR CONSTRUCTION IN PUBLIC RIGHTS-OF-WAY, AND ALL DEVELOPMENT PERMITS (SIDEWALKS, CUL-DE-SACS, SIDEWALKS, CONCRETE, AND MOST IMPORTANTLY, THE TYPE OF ANY TREE WHICH IS BEING PROTECTED IS NOT ALLOWED.

- (1) THE CLEANING OF CONSTRUCTION EQUIPMENT OR MATERIAL OR THE DISPOSAL OF WASTE MATERIALS INCLUDING BUT NOT LIMITED TO PAINT, OIL, SOLVENTS, ASPHALT, CONCRETE, AND MOST IMPORTANTLY, THE TYPE OF ANY TREE WHICH IS BEING PROTECTED IS NOT ALLOWED.
- (2) THE MOVEMENT OF MATERIALS OR THE STORAGE OF EQUIPMENT, MATERIALS, OR FILLS WITHIN THE TIEZ OF ANY TREE WHICH IS BEING PROTECTED IS NOT ALLOWED.
- (3) THE CONSTRUCTION SHALL BE SUSPENDED IF ANY PROTECTION BARRICADES AND SIGNS ON A WEEKLY BASIS DURING THE COURSE OF CONSTRUCTION. ANY BARRICADE OR SIGN WHICH HAS BEEN DAMAGED OR IS MISSING SHALL BE REPLACED IMMEDIATELY.
- (4) IF ANY TREE WHICH HAS NOT BEEN APPROVED TO BE REMOVED IS DESTROYED, OR RECEIVES MAJOR DAMAGE TO ITS TRUNK OR BRANCHES, THE CONTRACTOR SHALL BE REQUIRED TO REPAIR OR REPLACE THE TREE. (IN THE EVENT OF QUESTION, THE TREE(S) MUST BE REPLACED AT AN INCH-TO-INCH BASIS OF THE TOTAL COMBINED CM OF THE TREE(S) DESTROYED OR DAMAGED. THE REPLACEMENT SHALL BE FOR SUCH SPECIES AND PLANTING METHOD AS DESTROYED OR DAMAGED TREE(S) WITH A MINIMUM REPLACEMENT SIZE OF 1.5-INCH CALIBER. THE COUNTY RESERVES THE RIGHT TO ESTABLISH A REPLACEMENT SCHEDULE AND PAYMENT SCHEDULE. THE TREE MITIGATION PLAN MUST BE AUTHORIZED BY THE COUNTY'S LANDSCAPE ARCHITECT.

## PLANT SCHEDULE

77% NATIVE (47/41/13)

THIS IS A FLORIDA FRIENDLY LANDSCAPE PLAN

|              | CODE | BOTANICAL / COMMON NAME                                      | CONT.  | CAL.     | SIZE               | QTY | MITIGATION INCHES PROVIDED |
|--------------|------|--------------------------------------------------------------|--------|----------|--------------------|-----|----------------------------|
| NATIVE TREES |      |                                                              |        |          |                    |     |                            |
| Y            | EE2  | Ilex x alternata / Englert Holly                             | 45 gal | 3.0" CAL | 10-12' H x 4'-6" W | 5   | 175                        |
| N            | L42  | Leguminosia indica x laevis / Natchez / Hatched Crape Myrtle | 45 gal | 3.0" CAL | 10-12' H x 4'-6" W | 4   | 24.5                       |
| Y            | QV   | Quercus virginiana / Southern Live Oak                       | 65 gal | 3.0" CAL | 12-14' H x 6'-8" W | 7   | 21                         |
| Y            | SP   | Sabal palmetto / Cabbage Palmetto                            | 8.5 B  |          | 12-18" CT          | 2   | 13                         |
| Y            | TD   | Taxodium distichum / Bald Cypress                            | 65 gal | 3.0" CAL | 12-14' H x 4'-6" W | 6   | 21                         |
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**NOTES:**  
1. ALL PLANT MATERIAL SIZES ARE MINIMUM SIZES. CONTAINER SIZES SHALL BE INCREASED IF NECESSARY TO PROVIDE OVERALL PLANT SIZE SPECIFIED.  
2. FINAL ARRANGEMENT OF PLANT MATERIAL SHALL BE STAMPED BY THE CONTRACTOR FOR THE APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLMENT.  
3. THE PLANT QUANTITIES SHOWN ON THE LANDSCAPE CONTRACT DOCUMENTS ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE QUANTITIES AND REPORTING ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT FOR CLARIFICATION PRIOR TO CONTRACT AWARD AND COMMENCEMENT OF WORK.  
4. ALL MULCH SHALL BE MEDIUM PINE BARK NUGGETS MULCH 3 INCHES THICK WHEN COMPACTED.  
5. CONTRACTOR RESPONSIBLE FOR REPAIRING ALL INJURY OR PROMOTED PLANT SPECIES DAMAGE.  
6. ALL LANDSCAPING SHALL CONFORM TO CITY OF SANFORD LANDSCAPE, BUFFER, AND TREE REQUIREMENTS.  
7. ALL 300 SHALL BE ARGENTINE BAHIA GRASS (Paspalum notatum 'Argentine'). FINAL QUANTITY TO BE DETERMINED IN FIELD BY CONTRACTOR.  
8. ALL LANDSCAPING WITHIN SIGHT TRIANGLES SHALL CONFORM TO FOOT STANDARDS.  
9. SHRUBS AND GROUND COVERS WITHIN SIGHT TRIANGLES SHALL NOT EXCEED 8' IN HEIGHT ABOVE PAVEMENT.  
10. TREES IN SIGHT TRIANGLE SHALL HAVE A MINIMUM OF 6 FEET OF CLEAR TRUNK AT INSTALLATION, AND SHALL BE MAINTAINED AT 8 FEET AFTER ESTABLISHMENT.

**tdc DESIGN STUDIO**  
LANDSCAPE ARCHITECTURE  
COMMUNITY PLANNING  
2024 DESIGN  
1514 E. HILLCREST STREET STE. 105  
ORLANDO, FL 32809 PH: 407-545-1455

**MIDWAY TERRACE APTS LOT 18**  
MARION COUNTY, FL  
Prepared For: LINN ENGINEERING

**PROJECT NO. 2023-17**  
DESIGNED BY: TFW  
DRAWN BY: TFW  
CHECKED BY: TDC/TFW  
DATE: 8/20/23  
DRAWING SCALE: 1" = 20'-0"

**DRAWING TITLE: LANDSCAPE PLAN**  
**DRAWING NUMBER: LS-01**  
SHEET: 1 OF 2

DEVELOPMENT REVIEW  
COMMITTEE  
MARION COUNTY, FLORIDA  
APPLICATION # 30183  
APPROVAL DATE 6/17/24  
EXPIRATION DATE 6/17/28

All construction shall conform to the standards and specifications contained in the Marion County Development Code, Water Pollution Control Ordinance, and other applicable laws, rules and regulations. The applicant shall be responsible for obtaining all necessary permits from the appropriate agencies. The applicant shall be responsible for obtaining all necessary permits from the appropriate agencies. The applicant shall be responsible for obtaining all necessary permits from the appropriate agencies.

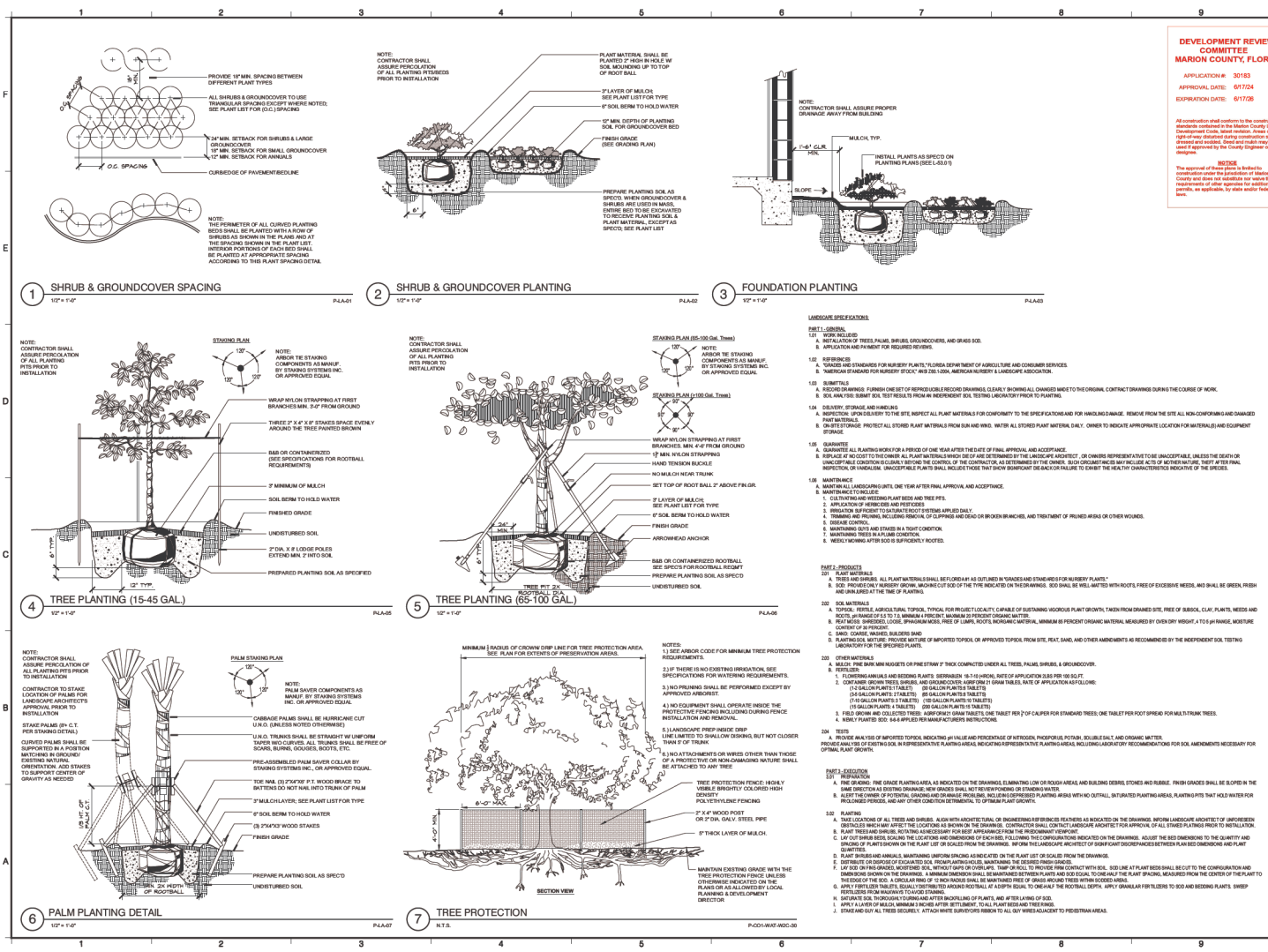
NOTICE  
The applicant shall be responsible for obtaining all necessary permits from the appropriate agencies. The applicant shall be responsible for obtaining all necessary permits from the appropriate agencies. The applicant shall be responsible for obtaining all necessary permits from the appropriate agencies.

LANDSCAPE ARCHITECTURE  
DESIGN STUDIO  
1514 E. PALMCREST STREET, STE. 105  
ORLANDO, FL 32809  
TEL: 407-541-1445  
WWW.LANDSCAPEDESIGNSTUDIO.COM

MIDWAY TERRACE APTS  
LOT 18  
MARION COUNTY, FL  
Prepared For:  
LINN ENGINEERING



|                |                                    |
|----------------|------------------------------------|
| PROJECT NO.    | 2023-17                            |
| DESIGNED BY    | TFW                                |
| CHECKED BY     | TDG/TFW                            |
| DATE           | 6/20/23                            |
| DRAWING SCALE  | AS SHOWN                           |
| DRAWING TITLE  | LANDSCAPE DETAILS & SPECIFICATIONS |
| DRAWING NUMBER | LS-02                              |
| SHEET          | 2 OF 2                             |







**DEVELOPMENT REVIEW  
COMMITTEE  
MARION COUNTY, FLORIDA**

APPLICATION # 30126  
APPROVAL DATE 6/11/24  
EXPIRATION DATE 6/11/26

All construction shall adhere to the construction standards contained in the Marion County Land Development Code, except where the standards are waived or modified during construction and the waiver and modified standards may be used if approved by the County Engineer or Designer.

**NOTICE**  
The approval of these plans is limited to construction under the provisions of Marion County and does not constitute nor waive the requirements of other regulations or additional permits as applicable by state and/or federal laws.



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DELIVERED TO THE PROJECT SITE BY THE CONTRACTOR OR A SUPPLIER TO THE CONTRACTOR. DELIVERY OF FIRST-CLASS AND SOIL AMENDMENT MATERIALS MUST BE IN ORIGINAL, UNOPENED CONTAINERS BEARING

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LUMBER

36. ALL LUMBER SHALL BE SOUTHERN YELLOW PINE, GRADE NO. 2 OR BETTER OR AS SPECIFIED ON THE I/F'S FOR LUMBER SIZES NOTED TO BE IN CONFORMANCE WITH VALUES LISTED IN THE NATIONAL F.O.R.

29 DATED WORK SHALL HAVE ALL OTHERS CLEARED BY THE FIVE (5) COMPONENTS FROM THE FACE OF ANY JOINT OR

30 EXPOSED WOOD MEMBERS SHALL BE PRESURE-TREATED WITH TYPE IV BURNED PENTACHLOROPHENOL (PCP) OR

31 EQUIVALENT TO PROTECT AGAINST AMERICAN WOOD-PRESERVING TERMITES.

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33 APPLICATION

34 A. ABOVE-GROUND SURFACES

35 B. BELOW-GROUND SURFACES

36 C. EXPOSED WOOD MEMBERS

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| MEAS. & OF<br>THERMAL<br>EXP.                                |  | ELEVATION OF<br>DETAIL NUMBER<br>SHEET NUMBER    |
| ROOF<br>DOES NOT<br>TO BE<br>CLEANED<br>UNTIL TO<br>SHALL BE |  | SECTION DETAIL<br>DETAIL NUMBER<br>SHEET NUMBER  |
| THICKNESS OF<br>INSULATION<br>OUT OF                         |  | PLAN ENLARGED<br>DETAIL NUMBER<br>SHEET NUMBER   |
| DEBRIS<br>ROOF                                               |  | GENERAL DETAIL<br>DETAIL NUMBER<br>SHEET NUMBER  |
| OR DURING<br>PLAY OF THE                                     |  | DETAIL ENLARGED<br>DETAIL NUMBER<br>SHEET NUMBER |
| THE<br>SITE OF                                               |  | DETAIL ENLARGED<br>DETAIL NUMBER<br>SHEET NUMBER |
| DIRECTIONS<br>OF THE                                         |  | DETAIL ENLARGED<br>DETAIL NUMBER<br>SHEET NUMBER |
| WHERE AN<br>EXPLANATION FOR<br>THE STRUCTURE                 |  | DETAIL ENLARGED<br>DETAIL NUMBER<br>SHEET NUMBER |
| STRUCTURAL<br>TYPE                                           |  | DETAIL ENLARGED<br>DETAIL NUMBER<br>SHEET NUMBER |
| CHECKED BY                                                   |  | DETAIL ENLARGED<br>DETAIL NUMBER<br>SHEET NUMBER |
| DESIGNED<br>BY                                               |  | DETAIL ENLARGED<br>DETAIL NUMBER<br>SHEET NUMBER |
| PROJECT<br>NUMBER                                            |  | DETAIL ENLARGED<br>DETAIL NUMBER<br>SHEET NUMBER |
| SECTION<br>NUMBER                                            |  | DETAIL ENLARGED<br>DETAIL NUMBER<br>SHEET NUMBER |
| DATE                                                         |  | DETAIL ENLARGED<br>DETAIL NUMBER<br>SHEET NUMBER |
| BY                                                           |  | DETAIL ENLARGED<br>DETAIL NUMBER<br>SHEET NUMBER |
| FOR                                                          |  | DETAIL ENLARGED<br>DETAIL NUMBER<br>SHEET NUMBER |
| OF                                                           |  | DETAIL ENLARGED<br>DETAIL NUMBER<br>SHEET NUMBER |
| TO                                                           |  | DETAIL ENLARGED<br>DETAIL NUMBER<br>SHEET NUMBER |
| FROM                                                         |  | DETAIL ENLARGED<br>DETAIL NUMBER<br>SHEET NUMBER |
| AT                                                           |  | DETAIL ENLARGED<br>DETAIL NUMBER<br>SHEET NUMBER |

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| FINISH RULE<br>NOTES |    | FINISH ITEM                        | SEE FINISH SCHEDULE |
| ING                  |                                                                                       |                                    |                     |
| CTIONS:              |    | PLANT TAG                          |                     |
|                      |                                                                                       | SYMBOL                             |                     |
|                      |                                                                                       | QUANTITY                           |                     |
|                      |  | EXISTING CONT                      |                     |
|                      |                                                                                       |                                    |                     |
|                      |  | PROPOSED CO                        |                     |
|                      |                                                                                       |                                    |                     |
|                      |  | STORMWATER                         |                     |
| STRUCTURAL           |                                                                                       |                                    |                     |
| AND SHEET            |  | SLOPE DIRECT<br>PERCENTAGE OF      |                     |
|                      |                                                                                       |                                    |                     |
|                      |  | SPOT ELEVATION                     |                     |
| D GRADE              |                                                                                       |                                    |                     |
| DOUGLAS<br>FIR       |                                                                                       |                                    |                     |
| CHARITATIVE          |                                                                                       |                                    |                     |
|                      |                                                                                       | N. 1483091.31 15<br>E. 447887.7445 | COORDINATE E        |

# CONTRACTOR NOTES

NOT ALL ITEMS SHOWN ON THIS SHEET APPEAR IN THE CONSTRUCTION DOCUMENTS, BUT NOT LIMITED TO: OBTAINING ALL PERMITS RELATED TO CONSTRUCTION INCLUDING, BUT NOT LIMITED TO: IRREGULAR HURDLE OF WIND UTILIZATION PERMITS

# CODE COMPLIANCE NOTES

1. IT IS THE INTENT OF THE DESIGN TO COMPLY WITH APPLICABLE LOCAL AND STATE ALL EDITIONS OF THE INTERNATIONAL CODES (SUCH AS THE) AND

# WINDLOAD NOTES

1. WIND RESISTANCE INFORMATION IS TO BE COMPILED BY ENGINEER OF RECORDS PER IRC-2003 EDITION CHAPTER 16, SECT. 16-1 (A-1)

MISC: WIND SPEED (ONLY) IS 140 MPH (3 SECOND GUST)  
(ONLY) IS 140 MPH (3 SECOND GUST)  
STRUCTURE CATEGORY IS 1 (A-1) (A-1)  
WIND EXPOSURE CATEGORY IS 1 (A-1) (A-1)  
Dx 14

**RECORDING REVIEW**  
**PLANNING COMMITTEE**  
**BOCA GRANDE, FLORIDA**  
 LOCATION # 30183  
 EVAL. DATE: 6/17/24  
 WORK DATE: 6/17/24  
**REFERENCE**  
 Resolution that refers to the construction of a new 100-unit apartment complex located in the Western County Land Development District, located in the Western County, Florida. The project is located on the south side of the county, near the intersection of the county road and the county road. The project is located on the south side of the county, near the intersection of the county road and the county road. The project is located on the south side of the county, near the intersection of the county road and the county road.

**NOTICE**  
 The Planning Committee is hereby notified that the project is located on the south side of the county, near the intersection of the county road and the county road. The project is located on the south side of the county, near the intersection of the county road and the county road. The project is located on the south side of the county, near the intersection of the county road and the county road.

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**AY TERRACE APTS**  
**LOT 18**  
**TRAIL**

[illegible]

|                                                               |   |                                                                                                                                                                                                                                   |
|---------------------------------------------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TOR IS RESPONSIBLE<br>BUILDING, LANDSCAPE,<br><br>DING CODES. | B | ISSUED FOR:<br>10/11/2023 REVISED:<br>20/04/2024 REVIEWED:<br>31/04/2024 REMARKS:<br><br>PROJECT N°:<br>DESIGNED BY:<br>DRAWN BY:<br>CHECKED BY:<br>DATE:<br>DRAWING N°:<br><br>DRAWING TIT:<br>INDEX S:<br><br>DRAWING N°:<br>10 |
|                                                               | A |                                                                                                                                                                                                                                   |

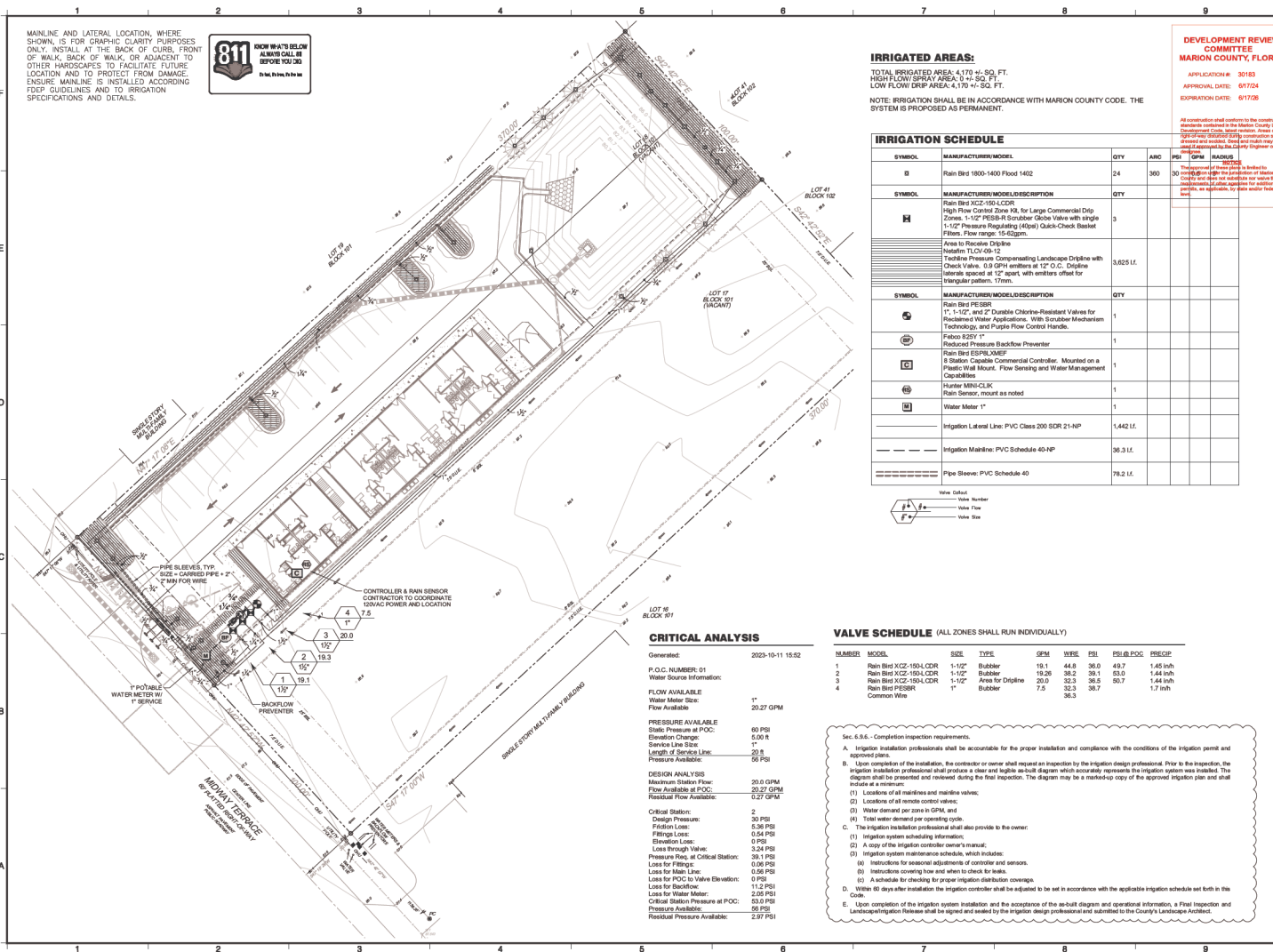
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 If this document is signed and stamped electronically, it is the equivalent of a signed and stamped paper copy.

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|          |  |  |  |  |
| 2023-17  |  |  |  |  |
| TDC/TPW  |  |  |  |  |
| TFW      |  |  |  |  |
| TDC/TPW  |  |  |  |  |
| 8/2/2023 |  |  |  |  |
|          |  |  |  |  |
|          |  |  |  |  |
| ET       |  |  |  |  |
|          |  |  |  |  |
| OR       |  |  |  |  |
| 01       |  |  |  |  |



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



#### CRITICAL ANALYSIS

|                                      |                  |
|--------------------------------------|------------------|
| Generated:                           | 2023-10-11 15:52 |
| P.O.C. NUMBER: 01                    |                  |
| Water Source Information:            |                  |
| Flow Available:                      | 20.0 GPM         |
| Water Meter Size:                    | 1"               |
| Pressure Available:                  | 20.0 PSI         |
| DESIGN ANALYSIS                      |                  |
| Maximum Station Flow:                | 20.0 GPM         |
| Flow Available at P.O.C.:            | 20.0 GPM         |
| Residual Flow Available:             | 0.27 GPM         |
| Critical Station:                    | 2                |
| Design Pressure:                     | 30.0 PSI         |
| Friction Loss:                       | 5.36 PSI         |
| Fittings Loss:                       | 0.54 PSI         |
| Elevation Loss:                      | 0.00 PSI         |
| Loss Through Valve:                  | 3.24 PSI         |
| Pressure Reg. at Critical Station:   | 38.1 PSI         |
| Loss for Fittings:                   | 0.06 PSI         |
| Loss for Main Line:                  | 0.56 PSI         |
| Loss for P.O.C. to Valve Elevation:  | 0.00 PSI         |
| Loss for Backflow:                   | 11.2 PSI         |
| Loss for Water Meter:                | 2.05 PSI         |
| Critical Station Pressure at P.O.C.: | 53.0 PSI         |
| Pressure Available:                  | 59.0 PSI         |
| Residual Pressure Available:         | 2.87 PSI         |

#### VALVE SCHEDULE (ALL ZONES SHALL RUN INDIVIDUALLY)

| NUMBER | MODEL                  | SIZE   | TYPE          | SPM   | WHEEL | PSI @ P.O.C. | PSI @ P.O.C. |
|--------|------------------------|--------|---------------|-------|-------|--------------|--------------|
| 1      | Rain Bird XCC-150-LCDR | 1-1/2" | Bubbler       | 19.1  | 44.8  | 36.0         | 48.7         |
| 2      | Rain Bird XCC-150-LCDR | 1-1/2" | Bubbler       | 19.26 | 38.2  | 39.1         | 53.0         |
| 3      | Rain Bird XCC-150-LCDR | 1-1/2" | Area for Drip | 20.0  | 32.3  | 36.5         | 50.7         |
| 4      | Rain Bird PESBR        | 1"     | Bubbler       | 7.5   | 32.3  | 36.7         | 1.7          |
|        | Common Wire            |        |               |       |       |              |              |

- Sec. 6.5.6 - Completion inspection requirements.
- A. Irrigation installation professionals shall be accountable for the proper installation and compliance with the conditions of the irrigation permit and approved plans.
- B. Upon completion of the installation, the contractor or owner shall request an inspection by the irrigation design professional. Prior to the inspection, the irrigation installation professional shall produce a clear and legible as-built diagram which accurately represents the irrigation system was installed. The diagram shall be presented, and reviewed during the final inspection. The diagram may be a marked-up copy of the approved irrigation plan and shall include at a minimum:
- (1) Locations of all mainline and lateral valves;
  - (2) Locations of all remote control valves;
  - (3) Water demand per zone in GPM, and
  - (4) Total water demand per operating cycle.
- C. The irrigation installation professional shall also provide to the owner:
- (1) Irrigation system scheduling information;
  - (2) A copy of the irrigation controller owner's manual;
  - (3) Irrigation system maintenance schedule, which includes:
  - (a) Instructions for seasonal adjustments of controller and sensors;
  - (b) Instructions covering how and when to check for leaks;
  - (c) A schedule for checking for proper irrigation distribution coverage;
  - (d) A schedule for checking for proper irrigation distribution coverage.
- D. Within 60 days after installation, the irrigation controller shall be adjusted to be set in accordance with the applicable irrigation schedule set forth in the Code.
- E. Upon completion of the irrigation system installation and the acceptance of the as-built diagram and operational information, a Final Inspection and Landscape/Irrigation Release shall be signed and sealed by the irrigation design professional and submitted to the County's Landscape Architect.

#### DEVELOPMENT REVIEW COMMITTEE

MARION COUNTY, FLORIDA

APPLICATION # 30183

APPROVAL DATE: 6/17/24

EXPIRATION DATE: 6/17/28

All construction shall conform to the conditions and requirements contained in the Marion County Code, Development Code, Water Section. Areas of the Code that are not specifically addressed by the Code and which are not addressed by the Code shall be subject to the discretion of the Landscape Architect.

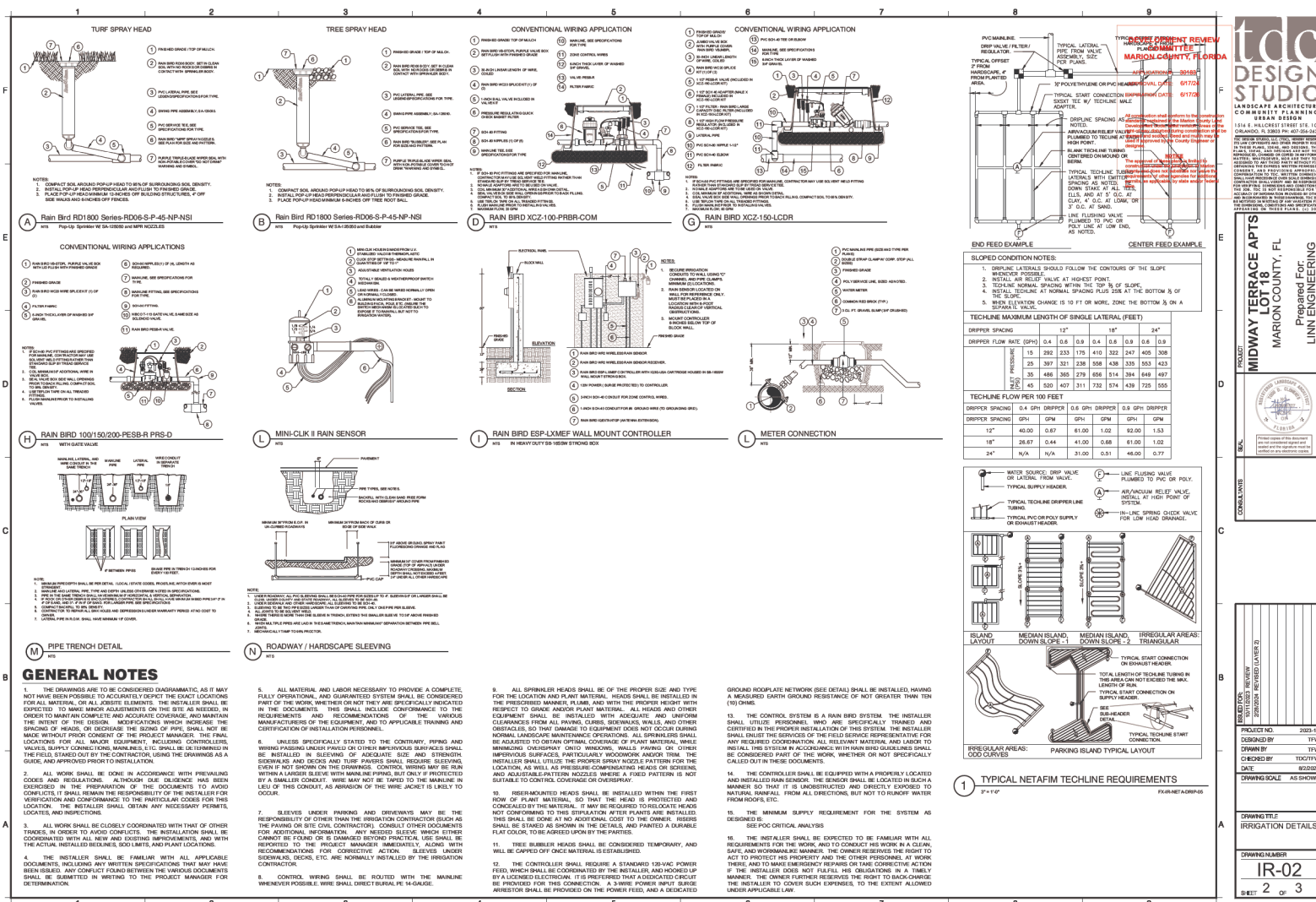
Transmission of these plans, whether by electronic or physical means, shall be subject to the conditions and requirements of the Marion County Code, Development Code, Water Section. Areas of the Code that are not specifically addressed by the Code and which are not addressed by the Code shall be subject to the discretion of the Landscape Architect.



MIDWAY TERRACE APTS LOT 18 MARION COUNTY, FL



|                |                 |
|----------------|-----------------|
| PROJECT NO.    | 2023-17         |
| DESIGNED BY    | TW              |
| DRAWN BY       | TDCTPW          |
| CHECKED BY     | TDCTPW          |
| DATE           | 8/20/23         |
| DRAWING SCALE  | AS SHOWN        |
| DRAWING TITLE  | IRRIGATION PLAN |
| DRAWING NUMBER | IR-01           |
| SHEET          | 1 OF 3          |



**tdc DESIGN STUDIO**

LANDSCAPE ARCHITECTURE  
COMMUNITY PLANNING  
DESIGN STUDIO

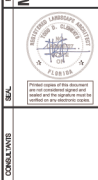
1514 E. HULBERT STREET STE. 105  
OKLAHOMA CITY, OK 73104-1455

PHONE: (405) 241-1111  
FAX: (405) 241-1112  
WWW.TDCDESIGNSTUDIO.COM

**Midway Terrace Apts  
Lot 18**

MARION COUNTY, FL

Prepared For:  
**LINN ENGINEERING**

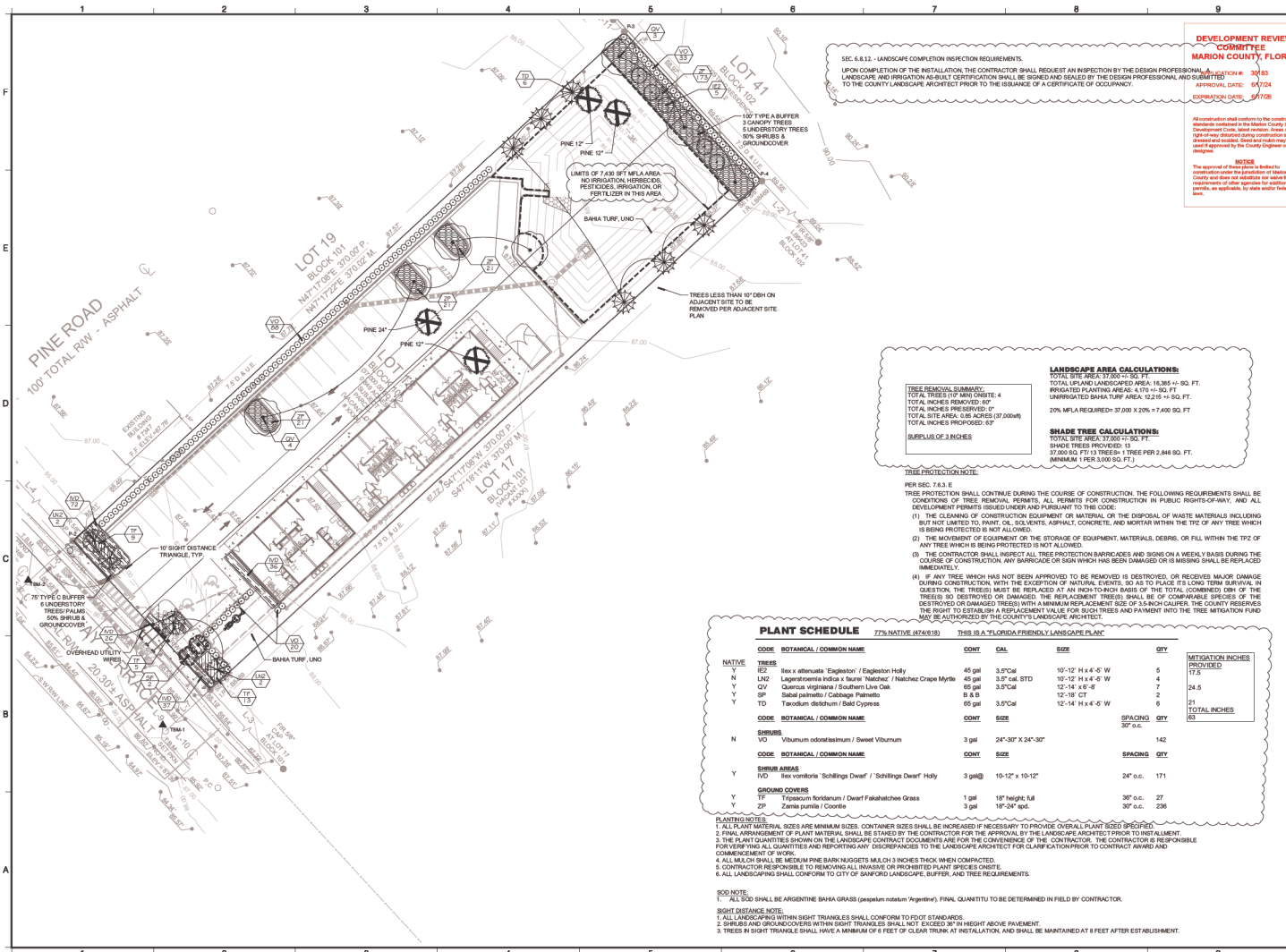


**PROJECT:** MIDWAY TERRACE APTS LOT 18  
**DATE:** 02/03/25  
**DESIGNED BY:** TDC  
**CHECKED BY:** TDC  
**DATE:** 02/03/25  
**DRAWING SCALE:** AS SHOWN

**DRAWING TITLE:** IRRIGATION DETAILS  
**DRAWING NUMBER:** IR-02  
**SHEET:** 2 of 3

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   |   |   |   |   |   |   |   |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|---|---|---|
|   | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|   | IRRIGATION NOTES & SPECIFICATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |   |   |   |   |   |   |   |   |
| F | Irrigation design based on the TDC Design Studio Landscape Plan dated 7/19/2021. Contractor shall refer to these plans to coordinate sprinkler and pipe locations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |   |   |   |   |   |   |   |
|   | The system has been designed to conform with the requirements of all applicable codes, laws, ordinances, rules, regulations and conventions. Should any conflict exist, the requirements of the codes shall prevail. It is the responsibility of the owner/installation contractor to ensure the entire system is installed as designed. The installation contractor responsible for obtaining all required permits according to federal, state and local laws.                                                                                                                                                                                                                                                                                                                                                                                                     |   |   |   |   |   |   |   |   |
|   | The scope of work specified on these plans, notes and details. The Irrigation Contractor shall be certified as a <b>CERTIFIED IRRIGATION CONTRACTOR</b> by the Irrigation Association. The certification shall be current and in good standing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   |   |   |   |   |   |   |   |
|   | THE WORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |   |   |   |   |   |   |   |
|   | The work specified in this section consists of furnishing all components necessary for the installation, testing, and delivery of a complete, fully functional automatic landscape irrigation system that complies with the irrigation plans, specifications, notes, and details. This work shall include, but not be limited to, the providing of all required material (sprinklers, backflows, pipes, valves, fittings, controllers, wire, primer, glue, etc.), layout, protection to the public, excavation, assembly, installation, backfill, fitting, compacting, repair of most surface, controller and low voltage feeds to valves, cleanup, maintenance, guarantee and as-built plans.                                                                                                                                                                      |   |   |   |   |   |   |   |   |
| E | All irrigated areas shall provide 100% head-to-head coverage from a fully automatic irrigation system with a rain (and freeze as appropriate) shut off device. If the rain shut off device is a rain sensor, it shall be installed to prevent activation by adjacent heads. Zones are prioritized first by public safety and then by hydrologic concerns. This sequencing will be a mandatory punch list item.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   |   |   |   |   |   |   |   |
|   | These plans have been designed to satisfy/oversee the Florida Irrigation Society Standards and Specifications for Turf and Landscape Irrigation Systems, fourth edition. All products should be installed per manufacturer's recommendation. Contractor shall verify all underground utilities 72 hours prior to commencement of work.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |   |   |   |   |   |   |   |   |
|   | It is the responsibility of the irrigation contractor to familiarize themselves with all grade differences, location of walls, retaining walls, structures and utilities. Do not willfully install the sprinkler system as shown on the drawings when it is obvious in the field that unknown obstructions, grade differences or differences in the area dimensions exist that might not have been considered in the engineering. Such obstructions, or differences, should be brought to the attention of the owner's authorized representative. In the event this notification is not performed, the irrigation contractor shall assume full responsibility for any reliance necessary.                                                                                                                                                                           |   |   |   |   |   |   |   |   |
| D | Irrigation contractor shall repair or replace all items damaged by their work. Irrigation contractor shall coordinate their work with other contractors for the location and installation of pipe sleeves and lateral through walls, under roadways and paving, etc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |   |   |   |
|   | The contractor shall take immediate steps to repair, replace, or restore all services to any utilities which are disrupted due to their operations. All costs involved in disruption of service and repairs due to negligence on the part of the contractor shall be their responsibility.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |   |   |   |
|   | POINT OF CONNECTION (P.O.C.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |   |   |   |   |   |   |   |
|   | There is ONE P.O.C. (s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |   |   |   |   |   |   |
|   | #1-P.O.C. is a new 1" potable meter (by others) with a 1" service line by others. The P.O.C. must be capable of delivering a minimum of 20 GPM at 60 PSI downstream of the water meter.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |   |   |   |   |   |   |
| C | Contractor to verify these minimum conditions can be met prior to ordering of materials and the beginning of installation. If the conditions can not be met, the contractor must notify the designer prior to proceeding with the work. If the contractor does not do so, the contractor proceeds at their own risk and becomes responsible for any future work required to make the system perform as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |   |   |   |   |   |   |   |
|   | THE PIPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |   |   |   |   |   |   |   |
|   | Pipe locations shown on the plan are schematic and shall be adjusted in the field. When laying out mainlines place a maximum of 18" away from either the back of curb, front of walk, back of walk, or other hardware to allow for ease in locating and protection from physical damage. Install all lateral pipe near edge of pavement or against buildings whenever possible to allow space for plant root balls. Always install piping inside project property's boundary.                                                                                                                                                                                                                                                                                                                                                                                       |   |   |   |   |   |   |   |   |
|   | All pipes are to be placed in planting beds. If it is necessary to have piping under hardscapes, such as roads, walls, and patios, the pipe must be sleeved using Class 200 PVC with the sleeve diameter being twice the size of the pipe it is carrying with a minimum sleeve size of 2".                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |   |   |   |
| B | Pipe sizes shall conform to those shown on the drawings. No substitutions of smaller pipe sizes shall be permitted, but substitutions of larger sizes may be approved. All damaged and rejected pipe shall be removed from the site at the time of field rejection.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |   |   |   |   |   |   |   |   |
|   | Mainline shall be Pantone Purple Sch 40 solvent-weld (zinc per plan) PVC with Sch 40 PVC solvent-weld fittings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   |   |   |   |   |   |   |   |
|   | Contractor to ensure all mainline piping is properly restrained using mechanical joint fittings, restraining collars, threaded rods, tie-backs, etc., as and where required. Contractor shall refer to pipe manufacturers recommended installation practices for further direction.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |   |   |   |   |   |   |   |   |
|   | PVC pipe joint compound and primer: The PVC cement shall be Weld-On 711 gny, slow-drying, heavy duty and the primer shall be Weld-On P70 (purple tinted, compatible with electrical), or approved equals.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |   |   |   |   |   |   |   |
|   | ELECTRICAL POWER SUPPLY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |   |   |   |   |   |   |
|   | Electrical supply for irrigation pumps, controllers, sensors, relays to be provided by irrigation contractor. Contractor to coordinate with local utilities for the installation of, and connection to, site available power supplies for required electrical components as set forth in the irrigation plans.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   |   |   |   |   |   |   |   |
| A | All electrical work is to comply with the National Electrical Code and any, and all, other applicable electrical codes, laws and regulations. A licensed electrician shall perform all electrical hook-ups. Power for each controller/PCU shall be a dedicated 120 volt, 20 amp circuit unless otherwise specified in the plans. Power for each pump to be according to pump specifications indicated in these plans.                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |   |   |   |   |   |   |   |
|   | WIRING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |   |   |   |   |   |   |   |   |
|   | Irrigation control wire shall be thermoplastic solid copper, single conductor, low voltage irrigation control wire; suitable for direct burial and continuous operation at rated voltages.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |   |   |   |
|   | Tape and bundle control wires every 10' and run alongside the mainlines. At all turns in direction make a 2" cut of wire. At all valve boxes cut wire around a 3/4" piece of PVC pipe to make a cut using 30 linear inches of wire. Make electrical connections with 3MM/5V/5R connectors.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |   |   |   |
|   | Number all wires, using an electrical book of numbers, according to the plans. Number wires in all valve boxes, junction boxes and at the controller.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |   |   |   |   |   |   |   |
|   | Wire sized, numbered and colored as follows:<br>#14 white for common<br>#14 spare black common<br>#14 individual color coded hot wire<br>#14 spare yellow hot wire                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |   |   |   |   |   |   |   |
|   | Spare wires<br>Leaving each controller, run six spare wires in both directions (twelve spare wires total). Install a 2 common spares (4 total) and 4 hot wires (8 total). Loop these wires into each RVC along their path and terminate in the last valve box controlled by the wires respective controller. The loop into each valve box shall extend up into the valve box a minimum of 6" and be readily accessible by opening the valve box lid. These wires must be all numbered and color coded as required in these plans.                                                                                                                                                                                                                                                                                                                                   |   |   |   |   |   |   |   |   |
|   | Controller and Pump Station Control Panel Grounding - Contractor to utilize 4"X6"X8" copper grounding plates, 6"X10"X8" copper clad grounding rods, One Sinker CAD walls at all connection points, #16 bare copper wire, and earth contact material. Install these and other required components as outlined in the detail. Contractor to verify that the earth to ground resistance does not exceed 10 ohms. Contractor shall provide a written certification, on a licensed electrical contractors letter head, showing the date of the test, controller/pump location, and test results. Each controller/pump shall be so grounded and tested. Each component must have its own separate grounding grid, unless they are sitting side by side, in which case up to two controllers can share a common grounding grid.                                            |   |   |   |   |   |   |   |   |
|   | LAYOUT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |   |   |   |   |   |   |   |   |
|   | Lay out irrigation system mainlines and lateral lines. Make the necessary adjustments as required to take into account all site obstructions and limitations prior to excavating trenches.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |   |   |   |
|   | Stake all sprinkler head locations. Adjust location and make the necessary modifications to nozzle types, etc. required to ensure 100% head to head coverage. Refer to the Edge of Pavement Detail on the Irrigation Detail Sheet.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |   |   |   |   |   |   |   |
|   | Spray heads shall be installed 4" from sidewalks or curbed roadways and 12" from uncurbed roadways and building foundations. Rotors shall be installed 4" from sidewalks or curbed roadways, 12" from building foundations, and 36" from uncurbed roadways.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |   |   |   |   |   |   |   |   |
|   | Shrub heads shall be installed on 3/4" Sch 40 PVC risers. The risers shall be set at a minimum of 18" of sidewalk, roadway curbing, building foundations, and/or any other hardscaped areas. Shrub heads shall be installed to a standard height of 4" below maintained height of plants and shall be installed a minimum of 6" within planted masses to be less visible and offer protection. Paint all shrub risers with flat black or forest green paint, unless irrigation system will utilize reuse water; in this case the risers shall be purple PVC and shall not be painted.                                                                                                                                                                                                                                                                               |   |   |   |   |   |   |   |   |
|   | Locate valves prior to excavation. Ensure that their location provides for easy access and that there is no interference with physical structures, plants, trees, poles, etc. Valve boxes must be placed a minimum of 12" and a maximum of 18" from the edge of pavement, curbs, etc. and the top of the box must be 2" above finish grade. No valve boxes shall be installed in turf areas without approval by the irrigation designer - only in shrub beds. Never install in sport field areas.                                                                                                                                                                                                                                                                                                                                                                   |   |   |   |   |   |   |   |   |
|   | VALVES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |   |   |   |   |   |   |   |   |
|   | Sequence all valves so that the farthest valve from the P.O.C. operates first and the closest to the P.O.C. operates last. The closest valve to the P.O.C. should be the last valve in the programmed sequence.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   |   |   |   |   |   |   |   |
|   | Adjust the flow control on each RVC to ensure shut off in 10 seconds after deactivation by the irrigation controller.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |   |   |   |   |   |   |   |
|   | Using an electric branding iron, brand the valve I.D. letter/number on the lid of each valve box. This brand must be 2"-3" tall and easily legible.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |   |   |   |   |   |   |   |   |
|   | EQUIPMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |   |   |   |   |   |   |   |
|   | All pop-up heads and shrub risers shall be pressure compensating. All pop-up heads shall be mounted on flex-type swing joints. All rotors shall be installed with PVC pipe using joints unless otherwise detailed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |   |   |   |   |   |   |   |
|   | All sprinkler equipment, not otherwise detailed or specified on these plans, shall be installed as per manufacturer's recommendations and specifications, and according to local and state laws.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |   |   |   |   |   |   |   |
|   | TRENCHING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |   |   |   |   |   |   |   |
|   | Excavate straight and vertical trenches with smooth, flat or sloping bottoms. Trench width and depth should be sufficient to allow the proper vertical and horizontal separation between utilities as shown in the pipe installation detail on the detail sheet.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |   |   |   |   |   |   |   |
|   | Protect existing landscaped areas. Remove and replace any damaged plant material upon job completion. The replacement material shall be of the same genus and species, and of the same size as the material it is replacing. The final determination as to what needs to be replaced and the acceptability of the replacement material shall be solely up to the owner or owner's representative.                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |   |   |   |   |   |   |   |   |
|   | INSTALLATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |   |   |   |   |   |   |   |
|   | Solvent Weld Pipes: Cut all pipe square and deburr. Clean pipe and fittings of foreign material; then apply a small amount of primer while ensuring that any excess is wiped off immediately. Primer should not puddle or drip from pipe or fittings. Heat apply a thin coat of PVC cement; first apply this layer to the pipe, next to this layer inside the fitting, and finally another very thin layer on the pipe. Insert the pipe into the fitting, insure that the pipe is inserted to the bottom of the fitting, then turn the pipe a 1/4 turn and hold for 10 seconds. Make sure that the pipe doesn't rotate from the fitting. If the pipe isn't at the bottom of the fitting upon completion, the glue joint is unacceptable and must be discarded.                                                                                                      |   |   |   |   |   |   |   |   |
|   | Pipes must cure a minimum of 30 minutes prior to handling and placing into trenches. A longer curing time may be required; refer to the manufacturer's specifications. The pipe must cure a minimum of 24 hours prior to filling with water.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |   |   |   |   |   |   |   |
|   | Gasketed Pipes: With pipes in the trench, cut pipe square, deburr, and place beveled edge on male portion of pipe. If not using a piece with a factory bevel. Clean pipe and fittings of foreign material; then apply a small amount of pipe grease to the rubber gasket on the female end. Fully insert the male end of the pipe into the bed and of adjacent pipe until the female is fully seated into the bell. Restrain pipe as required.                                                                                                                                                                                                                                                                                                                                                                                                                      |   |   |   |   |   |   |   |   |
|   | BACK FILL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |   |   |   |   |   |   |   |
|   | The Back fill IF below, 6" above, and around all piping shall be of clean sand and anything beyond that in the trench can be of native material but nothing larger than 2" in diameter.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |   |   |   |   |   |   |
|   | Main line pipe depth measured to top of pipe shall be:<br>24" minimum for 3/4"X 1/2" PVC with a 30" minimum at vehicular crossings;<br>30" minimum for 1"X 3/4" PVC with a 30" minimum at vehicular crossings;<br>30" minimum for 1"X 3/4" PVC with a 30" minimum at vehicular crossings;<br>24" minimum for 4" PVC and above with a 30" minimum at vehicular crossings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |   |   |   |   |   |   |   |
|   | Lateral line depths measured to top of pipe shall be:<br>18" minimum for 3/4"X 1/2" PVC with a 30" minimum at vehicular crossings;<br>24" minimum for 4" PVC and above with a 30" minimum at vehicular crossings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |   |   |   |   |   |   |   |   |
|   | Contractor shall backfill all piping, both mainline and laterals, prior to performing any pressure tests. The pipe shall be backfilled with the exception of 2" on each side of every joint (ball fittings, 90's, tees, 45's, etc.). These joints shall not be backfilled until all piping has satisfactorily passed its appropriate pressure test as outlined below.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |   |   |   |   |   |   |   |
|   | FLUSHING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |   |   |   |   |   |   |   |
|   | Prior to the placement of valves, flush all mainlines for a minimum of 10 minutes or until lines are completely clean of debris, whichever is longer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |   |   |   |   |   |   |   |
|   | Prior to the placement of heads, flush all lateral lines for a minimum of 10 minutes or until lines are completely clean of debris, whichever is longer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |   |   |   |   |   |   |   |
|   | Use screens in heads and adjust heads for proper coverage avoiding excess water on walks, walls, and paving.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |   |   |   |   |   |   |   |
|   | TESTING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |   |   |   |   |   |   |
|   | Soil: At a minimum of 2 locations on the site, soil tests for infiltration and texture shall be performed according to the USDA Soil Quality Test Kit Guide. The tests shall be documented in a USDA Soil Worksheet. (All of the above is available at <a href="http://india.usda.gov/go/agriculturemain/soil_testing/">http://india.usda.gov/go/agriculturemain/soil_testing/</a> ) The completed worksheet shall be submitted to the owners representative for review/approval. Do not proceed without written direction from the owner/owner's representative.                                                                                                                                                                                                                                                                                                   |   |   |   |   |   |   |   |   |
|   | Mainline: Remove all remote control valves and cap using a threaded cap on SCH 80 nipple. Fill mainline with water and pressurize the system to 125 PSI. Monitor the system pressure at two gauge locations; the gauge locations must be at opposite ends of the mainline. With the same respective pressures, monitor the gauges for two hours. There can be no loss in pressure at either gauge for solvent-welded pipe. For HDPE pipe, see HDPE notes. For gasketed pipe, testing requires measurement of the water pumped into the mainline system, using a hydrostatic pump, to maintain 125 PSI - this water volume shall be no more than the result of the following formula:<br>L=H/D*974*AD<br>where L=Volume leakage in gallons per hour<br>H=Number of joints in pipe (inches)<br>D=Nominal Direct Pressure in (PSI)<br>P=Average Test Pressure in (PSI) |   |   |   |   |   |   |   |   |
|   | If these parameters are exceeded, isolate the problem; repair it, wait 24 hours and retry the test. This procedure must be followed until the mainline passes the test.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |   |   |   |   |   |   |
|   | Lateral Lines: The lateral lines must be fully filled to operational pressure and visually checked for leaks. Any leaks detected must be repaired.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |   |   |   |   |   |   |   |
|   | Operational Testing - Once the mainline and lateral lines have passed their respective tests, and the system is completely operational, a coverage test and demonstration of the system is required. The irrigation contractor must demonstrate to the owner, or higher representative, that proper coverage is obtained and the system works automatically from the controller. This demonstration requires each zone to be turned on, in the proper sequence as shown on the plans, from the controller. Each zone will be inspected for proper coverage and function. The determination of proper coverage and function is at the sole discretion of the owner or owner's representative.                                                                                                                                                                        |   |   |   |   |   |   |   |   |
|   | Upon completion of the operational test, run each zone until water begins to puddle or overflow. This will allow you to determine the number of irrigation start times necessary to meet the weekly evapotranspiration requirements of the planting material in each zone. In the sandy soils, it is possible no puddling will occur. If this is experienced, then theoretical calculations for run times will be required for controller programming.                                                                                                                                                                                                                                                                                                                                                                                                              |   |   |   |   |   |   |   |   |
|   | SUBMITTALS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |   |   |   |
|   | Pre-Construction: The contractor must submit for written approval, prior to installation, five (5) copies of the manufacturer's cut sheet/specifications for all components to be used in the irrigation system.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |   |   |   |   |   |   |   |
|   | After project completion:<br>As a condition of final acceptance, the irrigation contractor shall provide the owner with:<br>1. Irrigation As-Built - shall be provided utilizing a sub-foot Global Positioning System (GPS) to accurately locate all mainlines, sleeves, remote control valves, gate valves, independent wire runs, wire splices boxes, controllers, high voltage supply source/control path, control mechanisms, sensors, wells and water source connections in Florida East State Plans, NAD 83, and CORRS 98 format. The collected shall be in POINT format and include an ID for each data point with Manufacturer, Type, Size, and Depth. All mainline and                                                                                                                                                                                     |   |   |   |   |   |   |   |   |
|   | Independent runs of wire shall be located every 30' for straight runs and at every change of direction. Sleeves will be located at end points and every 20' of length. Coverage REVIEW shall include depth in inch format. These POINTS once collected shall be labeled according to Autocad DWG geo-referenced base file to be labeled according to the following: (X,Y,Z) where X is location tested (using IR plan symbols), date, time, test method, and test results. The coverage shall be a Geo-Referenced DWG file and delivered to the owner on a CD-ROM.                                                                                                                                                                                                                                                                                                  |   |   |   |   |   |   |   |   |
|   | 2. Controller charts - Upon completion of "as-built" prepare controller charts for each controller. Indicate on each chart the area controlled by a remote control valve/direct control valve for each zone. This chart shall be reduced to a size that will fit inside the controller cover. The reduction shall be hermetically sealed inside two zip ties of clear plastic.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   |   |   |   |   |   |   |   |
|   | 3. Grounding Certification - Provide ground certification results for each controller and pump station panel grounding grid installed. This must be on a licensed electrical engineer's letterhead and location tested (using IR plan symbols), date, time, test method, and test results. The coverage shall be a Geo-Referenced DWG file and delivered to the owner on a CD-ROM.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |   |   |   |   |   |   |   |
|   | INSPECTIONS AND COORDINATION MEETINGS REQUIRED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   |   |   |   |   |   |   |   |
|   | schedule, perform, and attend the following, and demonstrate to the owner and owner's representative to their satisfaction, as follows:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |   |   |   |   |   |   |
|   | 1. Pre-construction meeting - Designer and contractor to review the plans and specifications and schedule with owner/guest contractor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |   |   |   |   |   |   |   |   |
|   | 2. Mainline installation inspection(s) - all mainline must be inspected for proper pipe, fittings, depth of coverage, backfill, and installation method.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |   |   |   |   |   |   |   |
|   | 3. Mainline pressure test - All mainline shall be pressure tested according to this design's requirements.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |   |   |   |
|   | 4. Flow Meter Calibration - All flow meters must be calibrated, provide certified calibration report for all flow meters.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |   |   |   |   |   |   |   |
|   | 5. USDA Soil Quality Tests for infiltration/texture                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |   |   |   |   |   |   |   |   |
|   | 6. Coverage and operational test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |   |   |   |   |   |   |   |
|   | 7. Final inspection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |   |   |   |   |   |   |   |   |
|   | 8. Punch list inspection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |   |   |   |   |   |   |   |
|   | FINAL ACCEPTANCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |   |   |   |   |   |   |   |
|   | First acceptance of the irrigation system will be given after the following documents and conditions have been completed and approved. Final payment will not be released until these conditions are satisfied.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   |   |   |   |   |   |   |   |
|   | 1. All above inspections are completed, documented, and approved by owner.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |   |   |   |
|   | 2. Completion and acceptance of "as-built" drawings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |   |   |   |
|   | 3. Acceptance of required controller charts and placement inside of controllers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |   |   |   |   |   |   |   |
|   | 4. All other submittals have been made to the satisfaction of the owner.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |   |   |   |   |   |   |   |
|   | GUARANTEE: The irrigation system shall be guaranteed for a minimum of one calendar year from the time of final acceptance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |   |   |   |





**DEVELOPMENT REVIEW COMMITTEE**  
**MARION COUNTY, FLORIDA**  
APPROVAL DATE: 06/24  
EXPIRATION DATE: 07/28

All construction shall conform to the conditions of the permit. The applicant shall be responsible for obtaining all necessary permits from the Marion County Department of Public Works, Water Resources, and Environmental Services. The applicant shall be responsible for obtaining all necessary permits from the Marion County Department of Public Works, Water Resources, and Environmental Services. The applicant shall be responsible for obtaining all necessary permits from the Marion County Department of Public Works, Water Resources, and Environmental Services.

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

**LANDSCAPE AREA CALCULATIONS:**  
TOTAL SITE AREA: 17,000 SQ. FT.  
TOTAL UPLAND LANDSCAPED AREA: 16,385 +/- SQ. FT.  
IRRIGATED PLANTING AREA: 4,070 +/- SQ. FT.  
UNIRRIGATED BAHIA TURF AREA: 12,215 +/- SQ. FT.  
20% MFLA REQUIRED: 37,000 X 20% = 7,400 SQ. FT.

**SHADE TREE CALCULATIONS:**  
TOTAL SITE AREA: 17,000 +/- SQ. FT.  
SHADE TREES PROVIDED: 13  
37,000 SQ. FT. / 13 TREES = 2,846 SQ. FT.  
(MINIMUM 1 PER 3,000 SQ. FT.)

**PLANT SCHEDULE**

| PER SEC. 73.1.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |                                                              |                                                                |                   |                    |         |                            |                       |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------|----------------------------------------------------------------|-------------------|--------------------|---------|----------------------------|-----------------------|--|
| TREES PROTECTED SHALL REMAIN DURING THE COURSE OF CONSTRUCTION. THE FOLLOWING REQUIREMENTS SHALL BE COMPLETED FOR EACH TREE REMOVAL, PERMITS, ALL PERMITS FOR CONSTRUCTION IN PUBLIC RIGHTS-OF-WAY, AND ALL DEVELOPMENT PERMITS MUST BE IN COMPLIANCE WITH THIS CODE:                                                                                                                                                                                                                                                                                                                                                                             |      |                                                              |                                                                |                   |                    |         |                            |                       |  |
| (1) THE CLEANING OF CONSTRUCTION EQUIPMENT OR MATERIAL OR THE DISPOSAL OF WASTE MATERIALS INCLUDING BUT NOT LIMITED TO TIE, GRAVEL, OR ASPHALT, CONCRETE, AND MORTAR WITHIN THE TPE OF ANY TREE WHICH IS BEING PROTECTED IS NOT ALLOWED.                                                                                                                                                                                                                                                                                                                                                                                                          |      |                                                              |                                                                |                   |                    |         |                            |                       |  |
| (2) THE MOVEMENT OF EQUIPMENT OR THE STORAGE OF EQUIPMENT, MATERIALS, DEBRIS, OR FILL WITHIN THE TPE OF ANY TREE WHICH IS BEING PROTECTED IS NOT ALLOWED.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |                                                              |                                                                |                   |                    |         |                            |                       |  |
| (3) THE CONTRACTOR SHALL INSPECT ALL TREE PROTECTION BARRICADES AND SIGN ON A WEEKLY BASIS DURING THE COURSE OF CONSTRUCTION. BARRICADES OR SIGN WHICH HAS BEEN DAMAGED OR IS MISSING SHALL BE REPLACED IMMEDIATELY.                                                                                                                                                                                                                                                                                                                                                                                                                              |      |                                                              |                                                                |                   |                    |         |                            |                       |  |
| (4) IF ANY TREE WHICH HAS NOT BEEN APPROVED TO BE REMOVED IS DESTROYED, OR RECEIVES MAJOR DAMAGE DURING CONSTRUCTION WITH THE EXCEPTION OF NATURAL EVENTS, AND IS AT OR PLACES ITS TIME PERMANENT IN QUESTION, THE TREES MUST BE REPLACED AT AN IN-HOURLY RATE OF THE TOTAL COMBINED DBH OF THE TREES SO DESTROYED OR DAMAGED. THE REPLACEMENT TREES SHALL BE OF COMPARABLE SPECIES OR THE DESTROYED OR DAMAGED TREES' MINIMUM REPLACEMENT SIZE OF 3.0-INCH CALIBER. THE COUNTY RESERVES THE RIGHT TO ESTABLISH A REPLACEMENT VALUE FOR SUCH TREES AND PAYMENT INTO THE TREE MITIGATION FUND MAY BE AUTHORIZED BY THE COUNTY LANDSCAPE ARCHITECT. |      |                                                              |                                                                |                   |                    |         |                            |                       |  |
| PLANT SCHEDULE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |                                                              | 77% NATIVE (47/41/3) THIS IS A FLORIDA FRIENDLY LANDSCAPE PLAN |                   |                    |         |                            |                       |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CODE | BOTANICAL / COMMON NAME                                      | CONT.                                                          | CAL.              | SIZE               | QTY     | MITIGATION INCHES PROVIDED |                       |  |
| NATIVE TREES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |                                                              |                                                                |                   |                    |         |                            |                       |  |
| Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | EE2  | Ilex x alternata / English / English Holly                   | 45 gal                                                         | 3.0" CAL          | 10-12' H x 4'-5' W | 5       | 175                        |                       |  |
| N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | L42  | Leguminosia indica x laevis / Natchez / Natchez Crape Myrtle | 45 gal                                                         | 3.0" CAL          | 10-12' H x 4'-5' W | 4       | 24.5                       |                       |  |
| Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | QV   | Quercus virginiana / Southern Live Oak                       | 65 gal                                                         | 3.0" CAL          | 12-14' H x 6'-8' W | 7       | 21                         |                       |  |
| Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | SP   | Sabal palmetto / Cabbage Palmetto                            | 8 B.B.                                                         |                   | 12-18' CT          | 2       | 13                         |                       |  |
| Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | TD   | Taxodium distichum / Bald Cypress                            | 65 gal                                                         | 3.0" CAL          | 12-14' H x 4'-5' W | 6       | 18                         |                       |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CODE | BOTANICAL / COMMON NAME                                      | CONT.                                                          | SIZE              |                    | SPACING | QTY                        | TOTAL INCHES PROVIDED |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |                                                              |                                                                |                   |                    | 30'-0"  |                            |                       |  |
| SHRUBS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                                                              |                                                                |                   |                    |         |                            |                       |  |
| N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | VO   | Viburnum cederstroemii / Sweet Viburnum                      | 3 gal                                                          | 24"-30" X 24"-30" |                    |         | 142                        |                       |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CODE | BOTANICAL / COMMON NAME                                      | CONT.                                                          | SIZE              |                    | SPACING | QTY                        |                       |  |
| GROUND COVERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |                                                              |                                                                |                   |                    |         |                            |                       |  |
| Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | FD   | Ficus virens / Schilling's Dwarf / Schilling's Dwarf Holly   | 3 gal                                                          | 10-12" X 10-12"   |                    |         | 24'                        | 171                   |  |
| Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | TF   | Trifolium repens / Dwarf Falcata Grass                       | 1 gal                                                          | 18" height full   |                    |         | 36'                        | 27                    |  |
| Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CP   | Cyperus pennis / Cootie                                      | 3 gal                                                          | 18"-24" tall      |                    |         | 36'                        | 238                   |  |

**NOTES:**  
1. ALL PLANT MATERIAL SIZES ARE MINIMUM SIZES. CONTAINER SIZES SHALL BE INCREASED IF NECESSARY TO PROVIDE OVERALL PLANT SIZE SPECIFIED.  
2. FINAL ARRANGEMENT OF PLANT MATERIAL SHALL BE STAMPED BY THE CONTRACTOR FOR THE APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLMENT.  
3. THE PLANT QUANTITIES SHOWN ON THE LANDSCAPE CONTRACT DOCUMENTS ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE ALL QUANTITIES AND REPORTING ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT FOR CLARIFICATION PRIOR TO CONTRACT AWARD AND COMMENCEMENT OF WORK.  
4. ALL MULCH SHALL BE MEDIUM PINE BARK NUGGETS MULCH 3 INCHES THICK WHEN COMPACTED.  
5. CONTRACTOR RESPONSIBLE FOR REPAIRING ALL INJURY OR PROMOTED PLANT SPECIES DAMAGE.  
6. ALL LANDSCAPING SHALL CONFORM TO CITY OF SANFORD LANDSCAPE, BUFFER, AND TREE REQUIREMENTS.  
7. ALL 300 SHALL BE ARGENTINE BAHIA GRASS (argentea rotunda 'Argentea'). FINAL QUANTITY TO BE DETERMINED IN FIELD BY CONTRACTOR.  
8. ALL LANDSCAPING WITHIN SIGHT TRIANGLES SHALL CONFORM TO FOOT STANDARDS.  
9. SHRUBS AND GROUND COVERS WITHIN SIGHT TRIANGLES SHALL NOT EXCEED 8' IN HEIGHT ABOVE PAVEMENT.  
10. TREES IN SIGHT TRIANGLE SHALL HAVE A MINIMUM OF 6 FEET OF CLEAR TRUNK AT INSTALLATION, AND SHALL BE MAINTAINED AT 8 FEET AFTER ESTABLISHMENT.

**tdc DESIGN STUDIO**  
LANDSCAPE ARCHITECTURE  
COMMUNITY PLANNING  
DESIGN DIVISION  
1514 E. HILLCREST STREET STE. 105  
ORLANDO, FL 32805 PH: 407-545-1455  
WWW.TDCDESIGNSTUDIO.COM

**MIDWAY TERRACE APTS LOT 18**  
MARION COUNTY, FL  
Prepared For: LINN ENGINEERING

**PROJECT NO. 2023-17**  
DESIGNED BY: TFW  
DRAWN BY: TFW  
CHECKED BY: TDC/TFW  
DATE: 8/20/23  
DRAWING SCALE: 1" = 20'-0"

**DRAWING TITLE: LANDSCAPE PLAN**  
**DRAWING NUMBER: LS-01**  
SHEET: 1 OF 2



DEVELOPMENT REVIEW  
COMMITTEE  
MARION COUNTY, FLORIDA  
APPLICATION # 30183  
APPROVAL DATE 6/17/24  
EXPIRATION DATE 6/17/28

All construction shall conform to the standards and specifications contained in the Marion County Development Code, Water Division, and the City of Marion County Engineering Department. The City of Marion County Engineering Department is not responsible for the design of any structure or system. The design of any structure or system shall be the responsibility of the designer. The City of Marion County Engineering Department is not responsible for the design of any structure or system. The design of any structure or system shall be the responsibility of the designer.

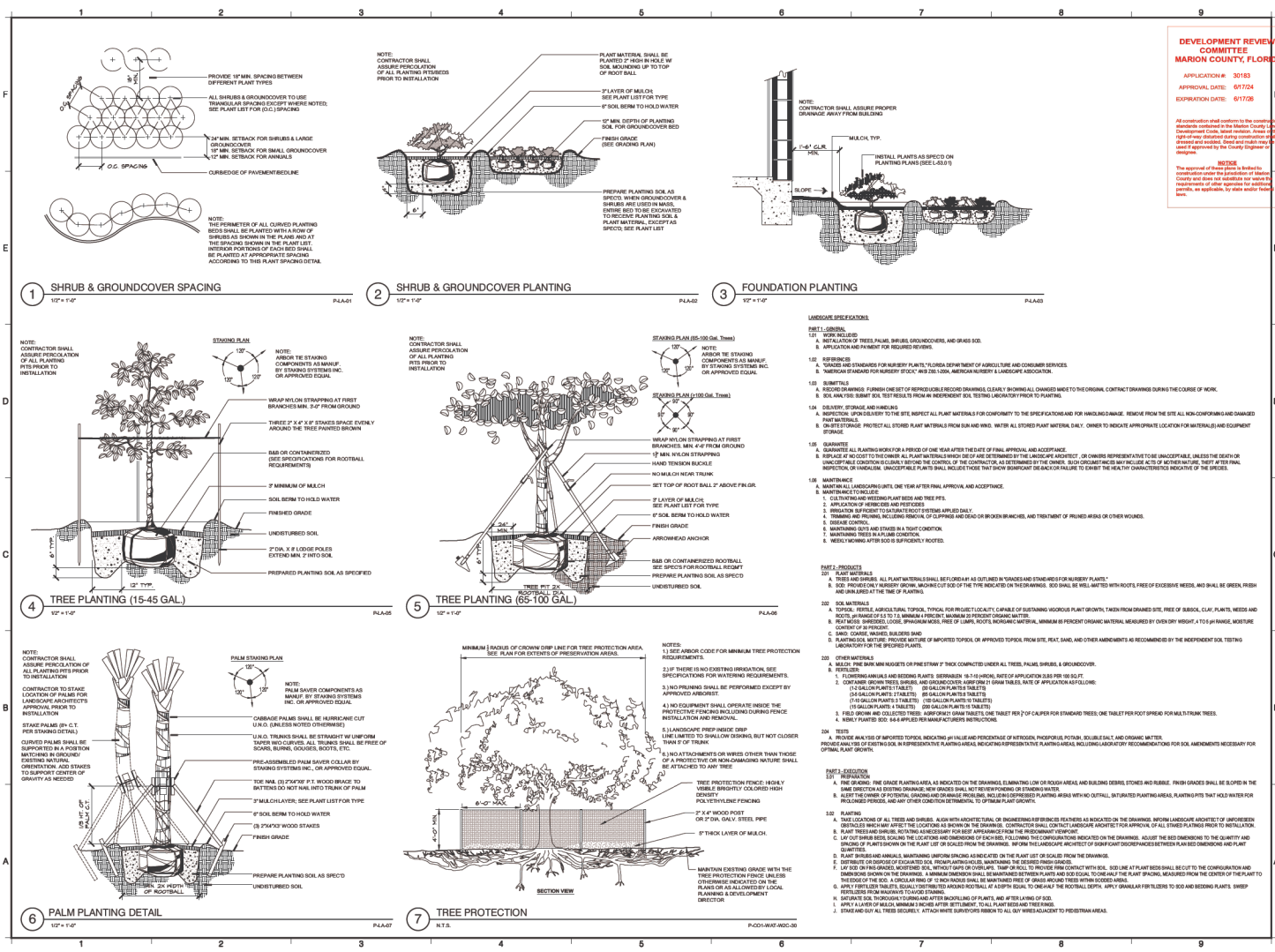
NOTICE  
The approval of these plans by the Marion County Development Code, Water Division, and the City of Marion County Engineering Department is not a guarantee of the accuracy or completeness of the information provided. The City of Marion County Engineering Department is not responsible for the design of any structure or system. The design of any structure or system shall be the responsibility of the designer.

LANDSCAPE ARCHITECTURE  
DESIGN STUDIO  
1514 E. PALMCREST STREET, STE. 105  
OKLAHOMA CITY, OKLAHOMA 73104  
581.455.1111  
www.designstudiook.com

MIDWAY TERRACE APTS  
LOT 18  
MARION COUNTY, FL  
Prepared For:  
LINN ENGINEERING



|                |                                    |
|----------------|------------------------------------|
| PROJECT NO.    | 2023-17                            |
| DESIGNED BY    | TFW                                |
| CHECKED BY     | TDG/TFW                            |
| DATE           | 6/20/23                            |
| DRAWING SCALE  | AS SHOWN                           |
| DRAWING TITLE  | LANDSCAPE DETAILS & SPECIFICATIONS |
| DRAWING NUMBER | LS-02                              |
| SHEET          | 2 OF 2                             |





**DEVELOPMENT REVIEW  
COMMITTEE  
MARION COUNTY, FLORIDA**

APPLICATION # 30126  
APPROVAL DATE 6/11/24  
EXPIRATION DATE 6/11/26

All construction shall adhere to the construction standards contained in the Marion County Land Development Code, except where the standards of the Code may be disturbed during construction and the District has accepted. Such standards may be waived or approved by the County Engineer or Designer.

**NOTICE**  
The approval of this application is subject to construction under the supervision of Marion County and does not constitute nor waive the requirements of other regulations or additional permits as applicable by state and/or federal laws.