



**CITY OF DELAND**  
**REGULAR MEETING OF THE CITY COMMISSION**  
**JULY 17, 2023 AT 7:00 PM**  
**CITY HALL, COMMISSION CHAMBERS**  
**120 SOUTH FLORIDA AVENUE**

**AGENDA**

**CALL TO ORDER**

**INVOCATION- Pastor Johnny Long, First Baptist Church DeLand**

**PLEDGE OF ALLEGIANCE**

**ROLL CALL**

**PRESENTATIONS**

1. Resolution No. 2023-39, Honoring the Retirement of Jarrod E. Maddox.
2. Employee Years of Service Awards.

**CONSENT AGENDA**

1. Resolution re Surplus Equipment.

It is recommended that the City Commission adopt the resolution declaring the equipment surplus and authorizing its disposal as set forth therein.

2. Resolution Approving Emergency Purchase of Chillers for Police Department.

It is recommended the City Commission approve the emergency purchase with ThermaServe's to replace the chillers and building control system for the Police Department.

3. Consideration re Change Order No.1 to DeLand Fairgrounds New Water Supply Wells Design & Bidding.

Staff recommends that the City Commission approve Mead & Hunt Change Order # 1 to DeLand Fairgrounds New Water Supply Wells Design & Bidding in the total amount of \$49,750.00.

**PETITIONS AND REQUESTS FROM THE PUBLIC PRESENT**

**NEW BUSINESS**

1. First Reading of Ordinance Annexing 2.2793 Acres of Property, Located Southeast of East Haven Road, West of South Garfield Avenue.

The applicant, Mr. Ray Bahrami, P.E., City Engineer, on behalf of the City of DeLand, applied to annex approximately 2.2793 acres of property located southeast of E. Haven Rd., west of S. Garfield Avenue. The city is in the process of expanding the existing Public Works Complex located on South Amelia Avenue. The expansion includes the construction of a new Utility Administration Building (Phase I, SP22-165), as well as a new parking area (Phase II, SP23-110)

that is needed to support the expansion. The ultimate goal is to eventually combine these two parcels with adjacent property, also owned by the city, as additions to the existing complex.

2. Resolution Approving Final Plat, Beresford Woods Phase 3 Subdivision.

The applicant, Toni Boone, Dewberry Engineering, has applied for the purpose of approval of the final plat for Beresford Woods.

3. Resolution Approving Final Plat, Beresford Woods Phase 2 Subdivision.

The applicant, Toni Boone, Dewberry Engineering, has applied for the purpose of approval of the final plat for Beresford Woods.

4. Resolution Approving Class IV Site Plan, Meadowlea Village Phases 4-5.

The City Commission is requested to approve the Class IV site plan for Meadowlea Village to permit the expansion of the existing mobile home park to develop 103 additional mobile home lots.

5. Resolution Approving the DeLand 2050 Vision Plan Update.

The 2050 Vision Plan was originally adopted in 2011. It acts as a tool to help guide future development and changes made to the comprehensive plan. The 2050 Vision Plan serves as a guide to the City's Comprehensive Plan, and because it is a long-range, living document, it needs to be reviewed and updated as needed.

6. Resolution Setting the Proposed Millage Rate for Fiscal Year 2023-2024.

Staff recommends the City Commission approve the proposed millage rate at 6.4841 mills for operating purposes. The proposed operating millage rate of 6.4841 is 7.62% above the rolled-back millage rate of 6.0252.

7. Consideration re First Amendment to Lease, 417 South Palmetto Avenue.

First Amendment to Lease, 417 South Palmetto Avenue between the City and the Neighborhood Center, extending the term of the lease for five (5) years.

8. Consideration re First Amendment to City of DeLand Homeless Services Day Center and Shelter Management Agreement.

First Amendment to City of DeLand Homeless Services Day Center and Shelter Management Agreement extending the term of the Agreement and clarifying maintenance responsibilities.

## **CITY COMMISSION REPORTS**

1. Report re Elected Officials Round Table.
2. Report re River-to-Sea TPO.
3. Report re River of Lakes Heritage Corridor.

## **CITY MANAGER REPORT**

## **CITY ATTORNEY REPORT**



## **CITY CLERK REPORT**

## **CITY COMMISSION**

## **ADJOURNMENT**

The DeLand City Commission holds its regular meetings on the first and third Mondays of each month at 7:00 p.m. in the DeLand City Commission Chambers, 120 South Florida Avenue, DeLand. Notice of special meetings, workshops, changes in dates, times or locations are provided by separate Public Notices, which are posted at City Hall and on the City's web site.

The City of DeLand may take action on any matter during this meeting, including items that are not set forth within this agenda.

Public participation is encouraged on any matter on the agenda. If you desire to be recognized by the Mayor, please fill out a Speaker's Card and present it to the City Clerk.

Minutes of the DeLand City Commission meetings are not transcribed verbatim. If any person decides to appeal a decision made by the City Commission with respect to any matter considered at a public meeting or hearing, he/she will need a record of the proceedings including all testimony and evidence upon which the appeal is to be based. To that end, such person will want to ensure that a verbatim record of the proceedings is made by a court reporter, at the person's own expense.

In accordance with the American Disabilities Act, persons needing a special accommodation in order to participate in the proceedings should notify the City Clerk's Office at least 48 hours in advance of the meeting: 626-7132.

Assisted Listening System receivers are available for the hearing impaired, and can be obtained from the City Clerk.

If you wish to obtain information regarding the City Commission's Agenda, please call the City Clerk's Office: 626-7132.

We respectfully request that all pagers and cell phones be turned OFF during City Commission meetings.

Electronic Information! City Commission agendas and short form minutes are now available on the City's web page: [www.deland.org](http://www.deland.org).



# The CITY OF DELAND

Volusia County, Florida

## RESOLUTION NO. 2023-39

**A RESOLUTION OF APPRECIATION AND RECOGNITION BY THE CITY COMMISSION OF THE CITY OF DELAND, FLORIDA, TO FIREFIGHTER JARROD E. MADDOX UPON HIS RETIREMENT AFTER 10 YEARS OF SERVICE TO THE CITY OF DELAND; AND PROVIDING AN EFFECTIVE DATE.**

**WHEREAS**, Jarrod E. Maddox has dedicated his career to the safety and protection of our community, and after 10 years of serving well and faithfully as a member of the DeLand Fire Department has announced his retirement as of December 8, 2022; and

**WHEREAS**, Jarrod E. Maddox began working for the City of DeLand Fire Department as a Firefighter on December 19, 2011; and

**WHEREAS**, during his career, Jarrod completed various courses to enhance his career skills and diligently worked to promote life safety in our community. Jarrod maintained state certification as a Certified Firefighter and Emergency Medical Technician in addition to certification as a Confined Space Rescue Technician, Rope Rescue Technician, Trench/Excavation Rescue Technician and as a Fire Apparatus Relief Driver.

**WHEREAS**, Jarrod was a valued shift member that assisted with mentoring and training junior firefighters assigned to his shift, ensuring they were prepared for all emergency and non-emergency responses within the City of DeLand and surrounding communities.

**WHEREAS**, Jarrod E. Maddox has distinguished himself with his professional leadership skills and performance as a Firefighter, and he has justly earned the respect, admiration and high regard of his fellow peers, as well as that of the citizens of this community.

**NOW THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF DELAND, FLORIDA:**

**Section 1.** That the City Commission of the City of DeLand does hereby honor Firefighter Maddox for his 10 years of service to the City and for the faithful, diligent and responsible manner in which he performed her duties.

**Section 2.** This resolution shall be spread upon the minutes of the City Commission of the City of DeLand as part of the permanent memento of the City's thanks and appreciation to Firefighter Jarrod E. Maddox.

**Section 3.** This Resolution shall become effective immediately upon its adoption.

**PASSED AND DULY ADOPTED** this 17<sup>th</sup> day of July, 2023.

---

Christopher M. Cloudman  
Mayor - Commissioner

Attest:

---

Julie A. Hennessy, City Clerk - Auditor

**CITY OF DELAND**  
**Request for Commission Action**  
**July 17, 2023**

**SUBJECT:** Employee Years of Service Awards.

**DEPARTMENT:** Human Resources

**PREPARED BY:** Mark Hayward, HR Director

**ATTACHMENTS:**

**APPROVED BY:** Michael Pleus, City Manager, July 10, 2023

---

**SUMMARY/HIGHLIGHT:**

The City of DeLand is fortunate to have so many dedicated employees who have served the DeLand community for many years. To honor these outstanding employees, the City Commission presents them with a plaque.

15 Years of Service  
Richard Cody, Police Department

James Levi, Jr. Utilities Department

**STRATEGIC PLAN FOCUS AREA/ACTION STEP:**

N/A

**SUSTAINABILITY:**

N/A

**FISCAL IMPACT:**

N/A

**RECOMMENDATION:**

It is recommended the City Commission present the service awards.

**BACKGROUND/DISCUSSION:**

N/A

**CITY OF DELAND**  
**Request for Commission Action**  
**July 17, 2023**

**SUBJECT:** Resolution re Surplus Equipment.

**DEPARTMENT:** City Clerk

**PREPARED BY:** Julie Hennessy, City Clerk

**ATTACHMENTS:** Resolution, Exhibit A, Department Head Memo, Department Head Memo

**APPROVED BY:** Michael Pleus, City Manager, July 11, 2023

---

**SUMMARY/HIGHLIGHT:**

The proposed Resolution declares certain equipment as surplus and authorizes the City Manager to dispose of same. Staff has indicated that the property is either obsolete and the continued use of it is uneconomical or inefficient; that it serves no useful function; and/or that it is irreparable.

Staff contacted The Boys and Girls Club, Top Christian Life Center, and The House Next Door offering donations to anyone who would like computer equipment.

The House Next Door has stated that they will take various pieces of equipment.  
803 North Woodland Blvd. DeLand, FL 32720.

**STRATEGIC PLAN FOCUS AREA/ACTION STEP:**

N/A

**SUSTAINABILITY:**

N/A

**FISCAL IMPACT:**

The proceeds from the sale of surplus equipment are included as revenue in the budget.

**RECOMMENDATION:**

It is recommended that the City Commission adopt the resolution declaring the equipment surplus and authorizing its disposal as set forth therein.

**BACKGROUND/DISCUSSION:**

N/A

**RESOLUTION 2023 –**

**A RESOLUTION BY THE CITY OF DELAND; FLORIDA, DECLARING CERTAIN  
PROPERTY SURPLUS; AUTHORIZING DISPOSAL OF THE PROPERTY; AND  
PROVIDING AN EFFECTIVE DATE.**

**WHEREAS**, the disposal of tangible surplus property is authorized by Section 274.06, Florida Statutes;  
and

**WHEREAS**, the City Commission hereby finds that the below property is either: obsolete and the continued use of it is uneconomical or inefficient; that it serves no useful function; and/or that it is irreparable;  
and

**WHEREAS**, the City Commission hereby finds that it is in the best interests of the City to dispose of said surplus property;

**NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF  
DELAND, FLORIDA:**

**Section 1.** The following described property is hereby declared surplus, and the City Manager is hereby authorized to dispose of the surplus property in a manner provided by law and to remove the surplus property from the City's fixed assets:

| <u>AIRPORT</u>       | <u>VEHICLE #</u> | <u>MAKE/MODEL</u> | <u>VIN/SERIAL NO.</u> | <u>DEPT/ASSET NO.</u> |
|----------------------|------------------|-------------------|-----------------------|-----------------------|
| <u>CITY WORKS ID</u> |                  |                   |                       |                       |
| 430-N/A              | 300-TL1          | FLAT TRAILER      |                       | N/A                   |
| 430-N/A              | AC-4             | LIGHTED X         |                       | 931056                |
| 430-N/A              | AC-5             | LIGHTED X         |                       | 937038                |

**INFORMATION SERVICES-** [SEE ATTACHED EXHIBIT A]

- The computer equipment in Exhibit A will be donated to the following nonprofit organization:  
The House Next Door, 803 North Woodland Blvd. DeLand, FL 32720.

**Section 2.** This Resolution shall become effective immediately upon its adoption.

**PASSED AND ADOPTED** this 17<sup>th</sup> day of July, 2023.

**ATTEST:**

\_\_\_\_\_  
Robert F. Apgar  
Mayor-Commissioner

\_\_\_\_\_  
Julie A. Hennessy  
City Clerk-Auditor

**APPROVED AS TO FORM AND LEGALITY:**

\_\_\_\_\_  
Darren J. Elkind  
City Attorney

| <u>Make</u> | <u>Model</u>      | <u>Description</u>    | <u>Serial #</u> | <u>City Tag</u> |
|-------------|-------------------|-----------------------|-----------------|-----------------|
| Avaya       |                   | 3524 Network Switches | 12jp233f62d     |                 |
| HP          |                   | 5120 Network Switches | Cn45f5y0d4      |                 |
| HP          |                   | 5800 Network Switches | Cn51bfr02z      |                 |
| HP          |                   | 5800 Network Switches | Cn23bfr007      |                 |
| HP          |                   | 5120 Network Switches | Cn55f5y1k0      |                 |
| HP          |                   | 5120 Network Switches | Cn31f5y1cw      |                 |
| HP          |                   | 5800 Network Switches | Cn23bfr05y      |                 |
| HP          |                   | 5120 Network Switches | Cn24f5y0fz      |                 |
| HP          |                   | 5120 Network Switches | Cn2bf5y08q      |                 |
| HP          |                   | 5120 Network Switches | Cn34f5y0b1      |                 |
| HP          |                   | 5130 Network Switches | Cn65gq04fw      |                 |
| HP          |                   | 1910 Network Switches | Cn65g1h3wx      |                 |
| HP          |                   | 1910 Network Switches | Cn41g1g0d0      |                 |
| HP          |                   | 1810 Network Switches | Cn43frs113      |                 |
| Nortel      |                   | 5520 Network Switches | SDNIT4089K      |                 |
| HP          |                   | 5120 Network Switches | JG236A          |                 |
| HP          |                   | 1810 Network Switches | CN43FRS113      |                 |
| HP          |                   | 1910 Network Switches | CN41G1G0D0      |                 |
| HP          |                   | 1910 Network Switches | CN65G1H3WX      |                 |
| Nortel      |                   | 5520 Network Switches | LBNNTMJPT418H7  |                 |
| Exacqvision | 0800-24-4000-elsr | Camera System         | er1139009762    |                 |
| Exacqvision | 0800-24-4000-elsr | Camera System         | er1222015466    |                 |
| Mitsubishi  | xd490u            | camera                | 6010870         |                 |

| <u>Make</u> | <u>Model</u> | <u>Description</u> | <u>Serial #</u> | <u>City Tag</u> |
|-------------|--------------|--------------------|-----------------|-----------------|
| Dell        | 7460 AIO     | Desktop            | f3p4ds2         |                 |
| Dell        | 7440 AIO     | Desktop            | 61BJXG2         |                 |
| Dell        | 7460 AIO     | Desktop            | f3t3ds2         |                 |
| Dell        | 7440 AIO     | Desktop            | 2RPFB02         |                 |
| Dell        | 7440 AIO     | Desktop            | 61MGXG2         |                 |
| Dell        | 7440 AIO     | Desktop            | 61DJXG2         |                 |
| Dell        | 7450 AIO     | Desktop            | 8NKYBM2         |                 |
| Dell        | 7460AIO      | Desktop            | f3q4ds2         |                 |
| Dell        | 7460 AIO     | Desktop            | f3r8ds2         |                 |
| Dell        | 7460 AIO     | Desktop            | f3v4ds2         |                 |
| Dell        | 7460 AIO     | Desktop            | f3q8ds2         |                 |
| Dell        | 7460 AIO     | Desktop            | f3x2ds2         |                 |
| Dell        | 7470 AIO     | Desktop            | f346h03         |                 |
| Dell        | 7460 AIO     | Desktop            | f3x4ds2         |                 |

|      |               |         |         |
|------|---------------|---------|---------|
| Dell | 7460 AIO      | Desktop | f3x5ds2 |
| Dell | 7460 AIO      | Desktop | f3x3ds2 |
| Dell | 7460 AIO      | Desktop | f3q6ds2 |
| Dell | 7460 AIO      | Desktop | f3v7ds2 |
| Dell | 7460 AIO      | Desktop | f3y2ds2 |
| Dell | 7460 AIO      | Desktop | f3p5ds2 |
| Dell | 7460 AIO      | Desktop | f3t8ds2 |
| Dell | 7460 AIO      | Desktop | f3p7ds2 |
| Dell | 7460 AIO      | Desktop | f3r4ds2 |
| Dell | 7440 AIO      | Desktop | 61qgxc2 |
| Dell | 7460 AIO      | Desktop | f3v6ds2 |
| Dell | 7460 AIO      | Desktop | f3s3ds2 |
| Dell | 7460 AIO      | Desktop | f3s4ds2 |
| Dell | 7470 AIO      | Desktop | 653vs13 |
| Dell | 7460 AIO      | Desktop | f3s8ds2 |
| Dell | 7460 AIO      | Desktop | f3n6ds2 |
| Dell | 7460 AIO      | Desktop | f3r7ds2 |
| Dell | 7460 AIO      | Desktop | f3n8ds2 |
| Dell | 7460 AIO      | Desktop | f3s7ds2 |
| Dell | 7460 AIO      | Desktop | f3y3ds2 |
| Dell | 7460 AIO      | Desktop | f3q5ds2 |
| Dell | 7460 AIO      | Desktop | f3t5ds2 |
| Dell | 7440 AIO      | Desktop | 61j8xc2 |
| Dell | 7440 AIO      | Desktop | 61rjxc2 |
| Dell | 7460 AIO      | Desktop | f3p6ds2 |
| Dell | 7440 AIO      | Desktop | 61bbxc2 |
| Dell | 7460 AIO      | Desktop | f3w4ds2 |
| Dell | 7460 AIO      | Desktop | f3t2ds2 |
| Dell | 7460 AIO      | Desktop | f3n4ds2 |
| Dell | 7450 AIO      | Desktop | 8nfxbm2 |
| Dell | 7460 AIO      | Desktop | f3v8ds2 |
| Dell | 7460 AIO      | Desktop | f3n7ds2 |
| Dell | 7460 AIO      | Desktop | f3v2ds2 |
| Dell | 7460 AIO      | Desktop | f3t6ds2 |
| Dell | 7460 AIO      | Desktop | f3w3ds2 |
| Dell | 7460 AIO      | Desktop | f3v3ds2 |
| Dell | 7460 AIO      | Desktop | f3q3ds2 |
| Dell | 7450 AIO      | Desktop | 8nktbm2 |
| Dell | 7460 AIO      | Desktop | f3p3ds2 |
| Dell | 7460 AIO      | Desktop | f3q7ds2 |
| Dell | 7460 AIO      | Desktop | f3n5ds2 |
| Dell | 7460 AIO      | Desktop | f3x8ds2 |
| Dell | 7460 AIO      | Desktop | f3r3ds2 |
| Dell | 7460 AIO      | Desktop | f3w2ds2 |
| Dell | 7460 AIO      | Desktop | f3t4ds2 |
| Dell | 7460 AIO      | Desktop | f3r5ds2 |
| Dell | LATITUDE 7450 | Desktop | 8ngxbm2 |

|         |                  |               |                              |      |
|---------|------------------|---------------|------------------------------|------|
| Dell    | Optiplex 7450    | Desktop       | 8NLXBM2                      |      |
| Dell    | LATITUDE 7460    | Desktop       | CN-0GF22C-PE200-89L-1385-A00 |      |
| Dell    | LATITUDE 7460    | Desktop       | CN-0GF22C-PE200-89L-1367-A00 |      |
| Dell    | LATITUDE 7460    | Desktop       | CN-0GF22C-PE200-89L-0530-A00 |      |
| Dell    | LATITUDE 7460    | Desktop       | CN-0GF22C-PE200-89L-0535-A00 |      |
| Dell    | Latitude 5490    | LAPTOP        | 2J9GVT2                      |      |
| Dell    | Latitude 5501    | LAPTOP        | g5rv3z2                      |      |
| Dell    | Latitude e5450   | LAPTOP        | d4z2r52                      |      |
| Dell    | Latitude e5450   | LAPTOP        | b0r2r52                      |      |
| Dell    | Latitude e6540   | LAPTOP        | 8YGY082                      |      |
| Dell    | Latitude e6540   | LAPTOP        | 8YCZ082                      |      |
| Dell    | Latitude e5450   | LAPTOP        | j0z2r52                      |      |
| Dell    | latitude e6540   | LAPTOP        | 8YDY082                      |      |
| Dell    | Latitude e6540   | LAPTOP        | 8YCY082                      |      |
| Dell    | Latitude e6540   | LAPTOP        | 8YFZ082                      |      |
| Dell    | Latitude e6540   | LAPTOP        | g52nvd2                      |      |
| Dell    | latitude e6540   | LAPTOP        | 8YBY082                      |      |
| Dell    | latitude e6540   | LAPTOP        | 8YB0182                      |      |
| Dell    | latitude e6540   | LAPTOP        | 8YDZ082                      |      |
| Dell    | latitude e6540   | LAPTOP        | 8Y8Z082                      |      |
| Dell    | latitude e6540   | LAPTOP        | 8Y80182                      |      |
| Dell    | latitude e6540   | LAPTOP        | 8YD0182                      |      |
| Dell    | latitude 5450    | LAPTOP        | 14z2r52                      |      |
| Dell    | latitude 5450    | LAPTOP        | 4zy2r52                      |      |
| Dell    | latitude 5450    | LAPTOP        | 93z2r52                      |      |
| Dell    | Precision 3630   | Tower         | 71t2DS2                      |      |
| Dell    | Precision 3630   | Tower         | 71S5DS2                      |      |
| Dell    | OPTIPLEX 7050    | Tower         | 2KGKWJ2                      |      |
| Dell    | Precision 3630   | Tower         | 71S7DS2                      |      |
| Dell    | Precision 3630   | Tower         | 71S6DS2                      |      |
| Dell    | Optiplex 7060    | Tower         | 3gbnfx2                      |      |
| Dell    | Precision 3630   | Tower         | h9r8g73                      |      |
| Dell    | monitor          |               | CN0TJKG1742612A7164U         |      |
|         |                  |               |                              |      |
| samsung | tablet           | tab070        |                              |      |
| samsung | tablet           | tab000        | R52HA1R7ECY                  |      |
| dell    | tablet           | dfd-tablet    | 98FVRF2                      |      |
| dell    | tablet           | ap-saadmin-19 |                              |      |
| samsung | tablet           | Tab034        | R52J30TTL0T                  |      |
|         |                  |               |                              |      |
| HP      | Design Jet Z6200 | Printer       | MY15I2901T                   | 5389 |
|         |                  |               |                              |      |
|         |                  |               | 1 box of misc items          |      |
|         |                  |               | 2 apcs                       |      |



# **Information Services Memorandum**

**July 3, 2023**

**TO: Julie Hennessy, City Clerk**

**FROM: Greg Whidden, IT Director**

**SUBJECT: Surplus Equipment**

Please have the attached list of equipment declared surplus with disposal at the City Manager's discretion. The equipment has been upgraded in accordance with our IT equipment rotation program.

We have been advised that The House Next Door, a non-profit organization, is looking for donations. We are recommending this equipment be donated to them.

Their contact information is:

The House Next Door  
Administrative Office  
803 North Woodland Blvd  
Deland, FL 32720  
386-734-7571

Thank you



## City of DeLand Airport

# Memorandum

Date: April 27, 2023

To: Julia Hewitt, City Clerk

From: John Eiff, Airport Manager

RE: Surplus Vehicles/Equipment

Listed below are vehicles/equipment that I would like to surplus

| DEPT&ASSET | VEHICLE# | MAKE      | MODEL        | VIN/SERIAL # |
|------------|----------|-----------|--------------|--------------|
| 430-N/A    | 300-TL1  | UNKNOWN   | FLAT TRAILER | N/A          |
| 430-N/A    | AC-4     | LIGHTED X |              | 931056       |
| 430-N/A    | AC-5     | LIGHTED X |              | 937038       |

These vehicles/equipment's have outlived the usefulness, and were not offered to outside departments. Please proceed with surplus with the above listed items.

Please contact me if you should have any questions.

John Eiff

**CITY OF DELAND**  
**Request for Commission Action**  
**July 17, 2023**

**SUBJECT:** Resolution Approving Emergency Purchase of Chillers for Police Department.

**DEPARTMENT:** Police

**PREPARED BY:** Jason Umberger, Police Chief

**ATTACHMENTS:** Resolution, ThermaServe Proposal

**APPROVED BY:** Michael Pleus, City Manager, July 11, 2023

---

**SUMMARY/HIGHLIGHT:**

The FY 22/23 included funds for the Chillers and the Building Control System to be replaced. During the process of determining the best path forward for procurement, the technicians advised Police Department staff that the HVAC chillers will not operate much longer and needed to be replaced as soon as possible. The system has malfunctioned several times within the last month, causing the police department to be without air conditioning and creating an unsafe environment for the evidence drug storage room. Once the chillers become inoperable, the police department will have to rent a semi-truck sized portable HVAC system to temporarily supply air conditioning to the PD, which would cost approximately 30k per month. Staff has secured the attached quote from ThermaServe to replace the Chillers and Building Control System. It will take 3-6 months to build the new chillers once the purchase order is approved. Because of operational needs and to avoid the potential need for a rental chiller, the police department requests the waiving of the purchasing policy to directly contract with ThermaServe to provide and install HVAC chillers and control system.

**STRATEGIC PLAN FOCUS AREA/ACTION STEP:**

High Value Government

**SUSTAINABILITY:**

N/A

**FISCAL IMPACT:**

The cost to replace the chillers and building control system is \$597,930.81, which is included in the FY 22/23 Budget.

**RECOMMENDATION:**

It is recommended the City Commission approve this emergency purchase resolution.

**BACKGROUND/DISCUSSION:**

The chillers that need to be replaced are twenty-two years old and have exceeded their life expectancy.

## **RESOLUTION NO. 2023 -**

### **A RESOLUTION OF THE CITY COMMISSION OF DELAND, FLORIDA, RELATING TO PURCHASING BY THE CITY UNDER THE PROVISIONS OF ARTICLE VIII, SECTION 63 OF THE CODE OF ORDINANCES OF AUTHORIZING THE EMERGENCY PURCHASE OF AIR CONDITIONING CHILLERS FOR THE POLICE DEPARTMENT WITHOUT BIDDING; PROVIDING FOR SEVERABILITY AND PROVIDING FOR AN EFFECTIVE DATE.**

**WHEREAS**, Article VIII, Section 63 of the Code of Ordinances of the City of DeLand provides for an exception to the general competitive bidding requirements of the City and allows the City Commission not purchase equipment by emergency appropriation when such purchase is determined to be necessary to protect health, welfare or safety; and

**WHEREAS**, the air conditioning chillers at the DeLand Police Department, which are approximately 22 years old, are failing and in need of immediate replacement; and

**WHEREAS**, there is a long lead time for the purchase of these chillers and if they fail completely, the City will be required to purchase a large mobile air conditioning apparatus at a cost of approximately \$30,000 per month; and

**WHEREAS**, the City's professional desires immediate approval to execute the proposal submitted by ThermaServe, Inc. attached hereto; and

**WHEREAS**, the City Commission hereby determines that the adoption of this Resolution is in the best interests of the health, safety and welfare of the citizens of the City of DeLand.

### **NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF DELAND, FLORIDA:**

#### **Section 1. Legislative Findings and Intent.**

(a). The City Commission of the City of DeLand hereby adopts and incorporates into this Resolution the recitals (whereas clauses) to this Resolution.

(b). The City Commission of the City of DeLand hereby determines that the adoption of this Resolution and taking the actions set forth herein would be in the public interest and serve a public purpose.

(c). The emergency purchase justification standards applicable to this matter have been met and adhered to and the emergency procurement activity authorized herein is in the best interest of the City.

(d). The City of DeLand has complied with all requirements and procedures of Florida law in processing and adopting this Resolution.

**Section 2. Emergency Procurement.**

(a). The City Commission hereby waives the City's competitive bidding requirement for the necessary purchase of the equipment and service identified in the attached proposal.

(b). The City Commission hereby declares that the purchase herein authorized is the result of an emergency situation.

(c). The proposal attached hereto is hereby incorporated herein as a substantive part of this Resolution and approved for payment.

**Section 3. Implementing administrative actions.**

The City Manager, City Clerk, and City Attorney are hereby generally authorized to take any and all actions necessary and appropriate to implement the provisions of this Resolution to include, but not limited to, the approval and execution of procurement documents relating to the purchase authorized by this Resolution.

**Section 4. Severability.**

If any section, sentence, phrase, word, or portion of this Resolution is determined to be invalid, unlawful or unconstitutional, said determination shall not be held to invalidate or impair the validity, force or effect of any other section, sentence, phrase, word, or portion of this Resolution not otherwise determined to be invalid, unlawful, or unconstitutional.

**Section 5. Effective Date.**

This Resolution shall become effective immediately upon enactment.

---

Christopher M. Cloudman  
Mayor-Commissioner

**ATTEST:**

---

Julie A. Hennessy  
City Clerk - Auditor

**APPROVED AS TO FORM AND LEGALITY:**

---

Darren J. Elkind  
City Attorney



5889 S. Williamson Blvd. 207  
Port Orange, FL 32128  
Phone: (877) 260-8002  
Cell: (386) 248-5460  
[www.thermaserve.com](http://www.thermaserve.com)

# PROPOSAL

FL #CMC057091 – GA #CN209367

## PROPOSAL ADDRESSEE

**Deland Police Department**  
219 West Howry Ave.  
Deland, FL 32720  
Attn: Ms. Rebecca Ackerman

## REPLACEMENT OF CHILLER's & BLDG. CONTROL SYSTEM

## SCOPE OF WORK

ThermaServe, Inc. is pleased to provide the following scope of work and pricing for your review and authorization. This proposal is qualified with certain inclusions and exclusions as noted herein.

### Includes:

- Schedule faulty chiller replacement & maintain conditions of the building.
- Disconnect main & control power for faulty chiller #1.
- Demo & Remove faulty chiller #1 from the roof (via crane).
- Clean area to receive New Chiller #1.
- Provide & Install New Vibration Isolation & Supports.
- Provide & Install New Piping, Valves, Fitting, Supports & Insulation.
- Provide & Install New Electrical Panel.
- Reconnect Main & Control Power.
- Perform setup on New Chiller #1.
- Perform Check Test Start-up on New Chiller #1.
- Disconnect main & control power for faulty chiller #2.
- Demo & Remove faulty chiller #2 from the roof (via crane).
- Clean area to receive New Chiller #2.
- Provide & Install New Vibration Isolation & Supports.
- Provide & Install New Piping, Valves, Fitting, Supports & Insulation.
- Provide & Install New Electrical Panel.
- Reconnect Main & Control Power.
- Perform Setup on New Chiller #2.
- Perform Check Test Start-up on New Chiller #2.
- Clean work site.
- Provide Drawings, Spec's & Permit.
- Provide & Maintain a 10 Year Parts & Labor Warranty on New Chiller's.
- Disconnect main & control power to existing control system.
- Demo & remove existing control system, components & hardware.
- Demo & remove existing comm wire, sensor wire & Rnet wire.
- Clean area to receive New Control System.
- Provide & Install New Comm wire, Sensor wire & Rnet wire.
- Provide & Install New Control Modules, Thermistors, Humidity Sensors & Relays on all AHU's.

- Provide & Install New Static Transducers, Flow Stations & CO2 Sensors on all AHU's.
- Provide & Install New Control Modules, Thermistors, Insertion, OA Sensors & Relays on all Chillers.
- Provide & Install New Control Modules, Thermistors, Zone Sensors & Relays on all VAV's.
- Provide & Install New i-Vu Front End Server, Router, Repeaters, Protection Boards & Terminations.
- Provide & Install Programming & Setup.
- Perform check test start-up on the New Control System.
- Training on New Control System.

#### CLARIFICATIONS

- All work performed 8:00am-4:30pm M/F.
- This proposal is valid for (30) thirty days.

For HVAC Emergency Service/Repairs you will receive a 2 Hour Response at a reduced rate.

#### EXCLUSIONS

- Additional faulty Equipment repair/parts.
- Premium time or overtime allowances.
- Fire alarm system or interfaces.

#### QUOTED PRICE

Cost for this is \$597,930.81

We appreciate the opportunity to be of service to You and Deland P.D. If you have any questions please do not hesitate to call.

#### Proposal Accepted:

ThermaServe, Inc. is authorized to precede  
With the work as proposed herein.

By \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

**This proposal is valid until: 30 days**

#### Proposal Submitted:

ThermaServe, Inc. Representative

Seller

**Mitch Cox**

By

Mitch Cox Mcox@thermaserve.com

Title

Branch Manager

Date

3-24-2022

## CONDITIONS OF SALE

---

1. **REMITTANCES:** All invoices shall be due and payable upon receipt in United States currency, free of exchange, or any other charges, or as otherwise agreed upon and set forth in writing by ThermaServe, Inc. (hereinafter called "Seller"). The Customer, if so requested, agrees to furnish Seller with all information including financial statements, necessary to make a proper credit appraisal. Refusal to supply information may cause this proposal to be withdrawn. Terms of payment originally granted are subject to the approval of continued credit status. Prices are subject to correction for error.
2. **PROPOSALS:** Proposals are based upon straight-time labor. Any request by the Customer for overtime work shall be considered an extra. This proposal expires 30 days after its date, subject to the provisions of the first sentence of the paragraph below entitled "Acceptance of Terms."
3. **PROGRESS PAYMENTS** Seller reserves the right to invoice Customer monthly as the work progresses, for all materials delivered to the job site or to an off-site facility and for all work performed on-site and off-site. Engineering, drafting and other mobilization costs incurred prior to installation shall be included in Seller's initial invoice and be equal to fifteen percent (15%) of the contract price. Invoices are due upon receipt by Customer. If the Customer becomes overdue in any progress payment, Seller shall be entitled to suspend work, shall be entitled to interest at the annual rate of 18% or the maximum permitted by the State of Florida; and also, to avail itself of any other legal remedies. Seller shall also be entitled to interest on all amounts retained by Customer from progress payments or otherwise. Customer agrees that he will pay and/or reimburse Seller for any and all reasonable attorney's fees which are incurred by Seller in the collection of amounts due and payable hereunder.
4. **CANCELLATION AND SUSPENSION:** Any contract resulting from this proposal is subject to cancellation or instructions to suspend work by the customer only upon agreement to pay Seller adjustment charge.
5. **TAXES** The amount of any future sales, use, occupancy, excise, or other tax, federal, state, or local which Seller hereafter shall be obligated legally to pay, either on its own behalf of the Customer or otherwise, with respect to the material covered by this proposal, shall be added to such prices and paid by the Customer.
6. **LOSS, DAMAGE OR DELAY:** Seller shall not be liable for any loss, damage, or delay occasioned by any causes beyond Seller's control, including, but not limited to, governmental actions or orders, embargoes, strikes, differences with workmen, fires, floods, accidents, or transportation delays. IN NO EVENT SHALL SELLER BE LIABLE FOR ANY CONSEQUENTIAL OR SPECIAL DAMAGES.
7. **WARRANTY:** Seller warrants that the equipment manufactured and services furnished by it and covered by this proposal are free from defects in material and workmanship under normal use and service and, without charge, equipment found to be so defective in material or workmanship will be repaired or replaced, if written notice of failure is received by Seller within one (1) year after date of installation, provided said equipment has been operated in accordance with Seller's instructions and provided such defects are not due to abuse, fire or decomposition by chemical or galvanic action. The labor is warranted for ninety days for repair projects and one year for equipment installation projects. THIS EXPRESS WARRANTY IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES, GUARANTEES, OR REPRESENTATIONS, EXPRESSED OR IMPLIED. THERE ARE NO IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. Seller assumes no responsibility for repairs made on Seller's equipment unless done by Seller's authorized personnel, or by written authority from Seller. Seller makes no guarantee with respect to material not manufactured by it.
8. **PURCHASER'S REMEDIES:** The Customer's remedies with respect to equipment found to be defective in material or workmanship shall be limited exclusively to the right of repair or replacement of such defective equipment. IN NO EVENT SHALL SELLER BE LIABLE FOR CLAIMS (BASED UPON BREACH OF IMPLIED WARRANTY) FOR ANY OTHER DAMAGES, WHETHER DIRECT, IMMEDIATE, FORESEEABLE, CONSEQUENTIAL, OR SPECIAL OR FOR ANY EXPENSES INCURRED BY REASON OF THE USE OR MISUSE OF EQUIPMENT WHICH DOES OR DOES NOT CONFORM TO THE TERMS AND CONDITIONS OF ANY CONTRACT RESULTING FROM THIS PROPOSAL.
9. **PRICE IN EFFECT:** For all metal projects a "price in effect" policy will be applied. Due to recent fluctuations in metals prices, all pricing should be considered as an estimate. Price increases received on metals at the time the order is released for production will be added to the invoice. We apologize for any inconvenience. Thank you for your cooperation.
10. **GOVERNING LAW:** Any contract resulting from this proposal shall be governed by, construed, and enforced in accordance with the laws of the State of Florida.
11. **CERTIFICATION:** The person whose signature appears on the attached hereof hereby certifies that, to his best knowledge and belief, the annexed bid is not the result of any agreement, arrangement or understanding between the Seller and any other manufacturer or seller of automatic temperature control systems and that the prices, terms or conditions thereof have not been communicated by or on behalf of the Seller to any such person and will not be communicated to any such person prior to the official opening of said bid.
12. **ACCEPTANCE OF TERMS:** This proposal shall become a binding contract between the Customer and Seller when accepted in writing by the Customer. Such acceptance shall be with mutual understanding that the terms and conditions of this proposal are a part thereof with the same effect as though signed by both parties named herein and shall prevail over any inconsistent provision of said order.
13. No waiver, alteration, or modification of the terms and conditions on this and the attached hereof shall be binding unless in writing and signed by an authorized representative of Seller.



**CITY OF DELAND**  
**Request for Commission Action**  
**July 17, 2023**

**SUBJECT:** Consideration re Change Order No.1 to DeLand Fairgrounds New Water Supply Wells Design & Bidding.

**DEPARTMENT:** Utilities

**PREPARED BY:** Jim Ailes, Deputy Public Serv. Director/Utilities Director

**ATTACHMENTS:** Mead & Hunt Task Order Change No. 1

**APPROVED BY:** Michael Pleus, City Manager, July 11, 2023

---

**SUMMARY/HIGHLIGHT:**

In October 2018, the City Commission awarded an agreement for professional services to Mead & Hunt for the construction and testing of a test well, the design of three new supply wells, permitting, and bidding for the DeLand Fairgrounds supply wells. This project has lagged over the years due to COVID delays, agreements, and permit issues.

During preliminary design, well locations shifted several times, causing additional survey work and environmental assessments for the additional property that was purchased by the city over the years, and lastly supporting documents for the Fair Association. In 2021 a higher rate structure for services was adopted and approved by the City Commission for Mead & Hunt's continuing service contract, as well. Staff agrees with this request and appreciates efforts by Mead & Hunt to wrap this project up and get it bid.

**STRATEGIC PLAN FOCUS AREA/ACTION STEP:**

Sustainability

**SUSTAINABILITY:**

Natural Resources Limits

**FISCAL IMPACT:**

There are funds from this project line item which have not been used up to this point in order to cover the additional work costs associated with this change order request. The budget amendment would add \$49,750 to the current purchase order which would cover the amount of the additional work tasks.

**RECOMMENDATION:**

Staff recommends that the City Commission approve Mead & Hunt Change Order # 1 to DeLand Fairgrounds New Water Supply Wells Design & Bidding in the total amount of \$49,750

**BACKGROUND/DISCUSSION:**

N/A



June 6, 2023

Jim Ailes  
Utilities Director  
City of DeLand  
1102 S. Garfield Avenue  
DeLand, FL 32724

Email: [ailesj@deland.org](mailto:ailesj@deland.org)  
Hard Copy Mailed Only on Request

**Subject: Deland Fairgrounds New Water Supply Wells – Change Order**

Dear Jim,

The City of Deland executed an agreement with Mead & Hunt on October 15, 2018, and issued PO#23613 for the construction and testing of a test well, the design of three new supply wells, permitting, and bidding and grant assistance. Since the execution of the agreement, alterations in the locations of the well sites and the inclusion of the property adjacent to the existing ground storage tank has necessitated additional work to complete the project, including a phase 1 environmental assessment of the site adjacent to the ground storage tank, additional survey, and modification of the design. Additionally, once the contract work was underway, additional assistance in negotiating with the Fairgrounds association was undertaken. These items were not considered under the design contract. This proposal adds funds required to complete the project.

This proposal does not include construction phase services and inspection. Thank you for this opportunity to continue to be of service. If you have additional questions, or require further assistance, do not hesitate to call.

Sincerely,  
MEAD & HUNT, Inc.

A handwritten signature in blue ink, appearing to read "Brad T. Blais".

Brad T. Blais, P.E.  
Vice President/Market Leader

A handwritten signature in blue ink, appearing to read "Russell Ferlita".

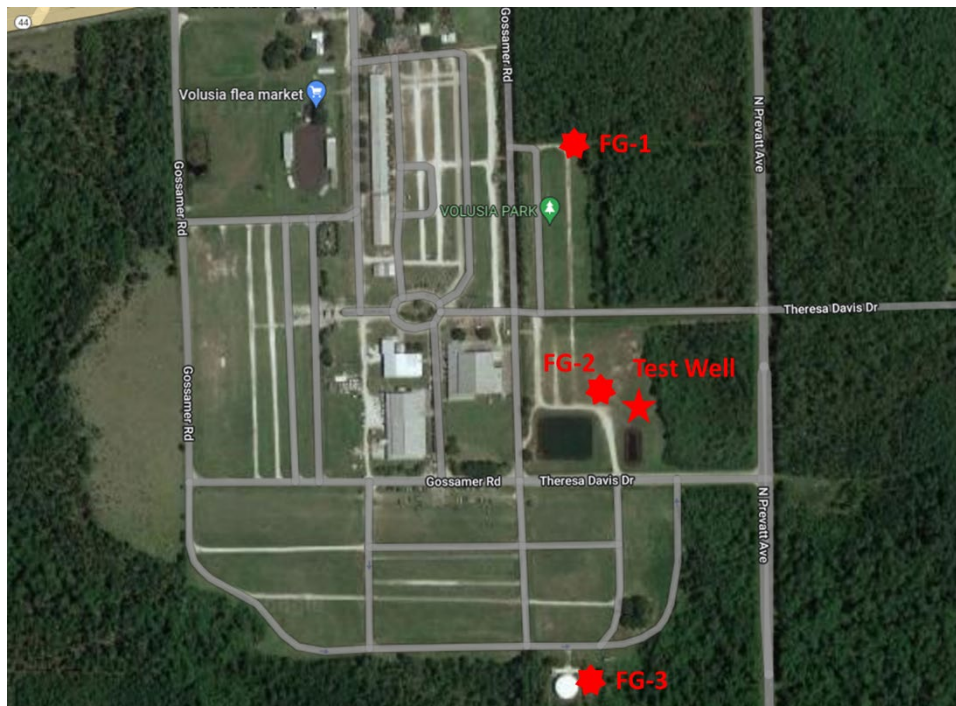
Russell Ferlita, Ph.D., P.E.  
Water Practice Leader

**CIT OF DELAND  
SCOPE OF SERVICES  
FOR  
NEW WATER SUPPLY WELLS  
CHANGE ORDER**

The Task Order is in conformance with the Agreement for Continuing Professional Engineering Services dated November 20, 2017, between the City of DeLand (OWNER) and Mead & Hunt, Inc. (MEAD & HUNT) and is referred to herein as the Contract.

**GENERAL**

The project involves completing the necessary engineering design work to produce a complete set of construction drawings, specifications, and bidding documents. The drawings shall be produced in AutoCAD and utilize existing record drawings for project design and plan preparation. The drawings shall be of sufficient scale and detail to effectively show the required work. The specifications shall be assembled utilizing standard format and cover all the required work. Bid documents shall include CITY standard front-end documents. Mead & Hunt will apply for, on the CITY'S behalf, specified permit applications. Application fees are paid by the CITY. The project site with the approximate location of the three new supply wells is shown below:



### **SCOPE OF SERVICES**

After receipt of authorization to proceed, MEAD & HUNT will continue to provide the services outlined in the scope and fee proposal dated September 26, 2018. The additional scope in this change order includes alterations in the locations of the well sites and the inclusion of the property adjacent to the existing ground storage tank. Additionally, once the contract work was underway, additional assistance in negotiating with the Fairgrounds association was undertaken. These items were not considered under the original design contract. This change will add funds required to execute additional survey, environmental assessment, and design required to complete the project.

#### **Deliverables – Additional Scope**

- Phase 1 Environmental Assessment of the site adjacent to the ground storage tank
- Additional survey

### **COMPENSATION**

The not-to-exceed cost for the original Scope of Services was \$298,670. This revision adds \$49,750 to the contract and increases the not-to-exceed cost to \$348,420.

The above fee is based on the following revised breakdown:

| <b>Phase/Task</b>                                                  | <b>Fee/Cost</b>  | <b>Basis</b>      |
|--------------------------------------------------------------------|------------------|-------------------|
| <i>Task A – Test Well Construction and Testing</i>                 | <i>\$144,600</i> | <i>Lump Sum</i>   |
| <i>Task B – Project Design</i>                                     | <i>\$110,760</i> | <i>Lump Sum</i>   |
| <i>Task C – Permitting &amp; Volusia County Site Plan Approval</i> | <i>\$29,630</i>  | <i>Lump Sum</i>   |
| <i>Task D – Bidding and Grant Assistance</i>                       | <i>\$12,180</i>  | <i>Lump Sum</i>   |
| <i>Task E – Printing and Reimbursables</i>                         | <i>\$1,500</i>   | <i>Allowances</i> |
| <i>Task F – Change Order</i>                                       | <i>\$49,750</i>  | <i>Lump Sum</i>   |
| <b>TOTAL</b>                                                       | <b>\$348,420</b> |                   |

### **AUTHORIZATION:**

The scope of services and compensation stated in this proposal are valid for a period of thirty (30) days from date of submission. If authorization to proceed is not received during this period, this proposal may be withdrawn or modified by MEAD & HUNT.

Jim Ailes  
June 6, 2023  
Page 4

Accepted by: City of Deland, Florida

Approved by: MEAD & HUNT, INC.

By: \_\_\_\_\_

By:  \_\_\_\_\_

Name: \_\_\_\_\_

Name: Brad T. Blais, PE

Title: \_\_\_\_\_

Title: Vice President/Client Manager

*The above person is authorized to sign for Owner  
and bind the Owner to the terms hereof.*

Date: \_\_\_\_\_

Date: June 6, 2023

PURSUANT TO FLORIDA STATUTE SECTION 558.0035, AN  
INDIVIDUAL EMPLOYEE OR AGENT OF MEAD & HUNT INC. MAY NOT  
BE HELD INDIVIDUALLY LIABLE FOR NEGLIGENCE.

**IF THE CONTRACTOR (MEAD & HUNT INC.) HAS QUESTIONS REGARDING THE APPLICATION OF  
CHAPTER 119, FLORIDA STATUTES, TO THE CONTRACTOR'S DUTY TO PROVIDE PUBLIC  
RECORDS RELATING TO THIS CONTRACT (PROPOSAL), CONTACT THE CUSTODIAN OF PUBLIC  
RECORDS AT CITY HALL, CITY OF DELAND, 12 SOUTH FLORIDA AVENUE, DELAND, FL 32720,  
CITY Clerk, Julie A. Hennessy, MMC (386) 626-7130, [Hennessy@deland.org](mailto:Hennessy@deland.org).**

**CITY OF DELAND**  
**Request for Commission Action**  
**July 17, 2023**

**SUBJECT:** First Reading of Ordinance Annexing 2.2793 Acres of Property, Located Southeast of East Haven Road, West of South Garfield Avenue.

**DEPARTMENT:** Planning

**PREPARED BY:** Carol Kuhn, Deputy Planning Director

**ATTACHMENTS:** Ordinance, Exhibit A - Metes & Bounds Parcel, Exhibit B - Zoning & Location Map, Aerial Map, AN23-105 Staff Report

**APPROVED BY:** Michael Pleus, City Manager, July 13, 2023

---

**SUMMARY/HIGHLIGHT:**

The subject property is located in unincorporated Volusia County and is currently zoned R-4 (Urban Single-Family) with a future land use designation of County UMI (Urban Medium Intensity). The subject property is one of multiple parcels being annexed into the city in an effort to expand the existing Public Works Complex.

At their June 21, 2023 meeting, the Planning Board recommended approval of the annexation.

The City's guidelines for annexation require a property be sufficiently **contiguous** to property already within the city limits and to be accessible to public services provided. In addition, the State requires the property be **reasonably compact, not circuitous, and does not create an enclave**. The subject property is contiguous to the City of DeLand to the south by approximately 331 ft. and to the west by approximately 328 ft. It is reasonably compact and is non-circuitous.

**STRATEGIC PLAN FOCUS AREA/ACTION STEP:**

One of the key areas of focus in the Strategic Plan addresses the implementation of Smart Growth Principles.

Strategic Plan Focus Area: Institute Smart Growth Principles:

*According to the Strategic Plan, "...to manage growth, the city will need to institute a number of smart growth principles. For reasons of both community identity and governmental efficiency, an annexation strategy is required which will 'square-off' the city's boundaries"*

Action Steps:

1. Require contiguous properties to annex
2. Continue to review annexations from a business plan perspective
3. Conduct annexation feasibility studies when appropriate

**SUSTAINABILITY:**

N/A

**FISCAL IMPACT:**

N/A

**RECOMMENDATION:**

It is recommended that the City Commission approve annexation of these two properties into the city limits of DeLand.

**BACKGROUND/DISCUSSION:**

The city-owned property to the south of the subject property is the location of the existing Public Works Complex and future administrative building. To the north and west of the subject property are residential properties, less than a half-acre each. To the east is an existing industrial use.

**ORDINANCE NO. 2023 -**

**AN ORDINANCE OF THE CITY COMMISSION OF DELAND, FLORIDA, ANNEXING TWO PARCELS OF LAND TOTALING APPROXIMATELY +/- 2.2793 ACRES OF PROPERTY LOCATED SOUTHEAST OF EAST HAVEN ROAD, WEST OF SOUTH GARFIELD AVENUE; AMENDING CITY BOUNDARIES TO INCLUDE THE ANNEXED PROPERTIES; AFFIRMING COMPLIANCE WITH STATUTORY PROCEDURE; AND PROVIDING AN EFFECTIVE DATE.**

**WHEREAS**, the Petitioner, Ray Bahrami, City Engineer, on behalf of the City of DeLand, submitted a petition for annexation of approximately +/- 2.2793 acres of land located southeast of E. Haven Road, west of S. Garfield Avenue; and

**WHEREAS**, the parcels to be annexed is undeveloped and wooded; and

**WHEREAS**, the area to be annexed is contiguous to the boundaries of the City of DeLand, on the south and west, will not create an enclave if annexed, is reasonably compact, is not circuitous, and otherwise meets the requirements of *Chapter 171, Florida Statutes*.

**NOW, THEREFORE, BE IT ORDAINED BY THE CITY COMMISSION OF DELAND, FLORIDA:**

**Section 1.** The following described parcels of land in Volusia County, Florida, for which a petition for annexation has been received from the Petitioner, Ray Bahrami, City Engineer on behalf of the City of DeLand, totaling approximately +/- 2.2793 acres, located southeast of East Haven Road, west of South Garfield Avenue, is hereby annexed and made part of the City of DeLand, subject to the jurisdiction, obligations, benefits and privileges of property within the municipality:

**See legal description(s) attached hereto as Exhibit “A”**

**Parcel Identification Nos. 702102000060 and 702102000052**

**Section 2.** The boundary lines of the City of DeLand are hereby changed and redefined to include the lands described in Section 1 above and depicted on the map attached hereto as Exhibit “B” and by this reference made a part hereof.

**Section 3.** The City Commission finds that a public hearing has been held on this Ordinance prior to adoption in the Commission Chambers, City Hall, 120 S. Florida Avenue, DeLand, Florida, at \_\_\_\_ P.M., on \_\_\_\_\_, 2023 after notice published in accordance with Florida Statutes Section 171.044.



**Section 4.** This Ordinance shall become effective immediately upon its adoption.

**PASSED AND DULY ADOPTED** this \_\_\_\_ day of July, 2023.

---

Christopher M. Cloudman  
Mayor-Commissioner

**ATTEST:**

---

Julie A. Hennessy  
City Clerk - Auditor

Passed on first reading:  
Adopted on second reading:

**APPROVED AS TO FORM AND LEGALITY:**

---

Darren J. Elkind  
City Attorney

## EXHIBIT "A"

### ANNEXATION DESCRIPTION:

A PORTION OF THE SOUTH ½ OF EAST HAVEN DRIVE.

AND:

ALL OF PARCEL 2 ALSO KNOWN AS THE EAST 1/2 OF LOT 6, AND THE EAST 1/2 OF THE SOUTH 108.00 FEET OF LOT 5, LESS AND EXCEPT THE WEST 80.00 FEET AND THE EASE 80.00 FEET OF SAID LOT 5, ACCORDING TO THE PLAT OF THE ASSESSOR'S SUBDIVISION OF HIRAM WATERS GROVE, LOCATED IN THE NORTHEAST 1/4 OF SECTION 21, TOWNSHIP 17 SOUTH, RANGE 30 EAST, RECORDED IN MAP BOOK 3, PAGE 25, PUBLIC RECORDS OF VOLUSIA COUNTY, FLORIDA. THIS DESCRIPTION DESCRIBES THE LANDS IDENTIFIED IN OFFICIAL RECORDS BOOK 1893 PAGE 0720.

AND:

ALL OF PARCEL 4, ALSO KNOWN AS THE WEST 80.00 FEET OF THE EAST 1/2 OF LOT 5, ACCORDING TO THE PLAT OF THE ASSESSOR'S SUBDIVISION OF HIRAM WATERS GROVE, LOCATED IN THE NORTHEAST 1/4 OF SECTION 21, TOWNSHIP 17 SOUTH, RANGE 30 EAST, RECORDED IN MAP BOOK 3, PAGE 25, PUBLIC RECORDS OF VOLUSIA COUNTY, FLORIDA. THIS DESCRIPTION DESCRIBES THE LANDS IDENTIFIED IN OFFICIAL RECORDS BOOK 5694 PAGE 2672.

### DESCRIBED AS FOLLOWS:

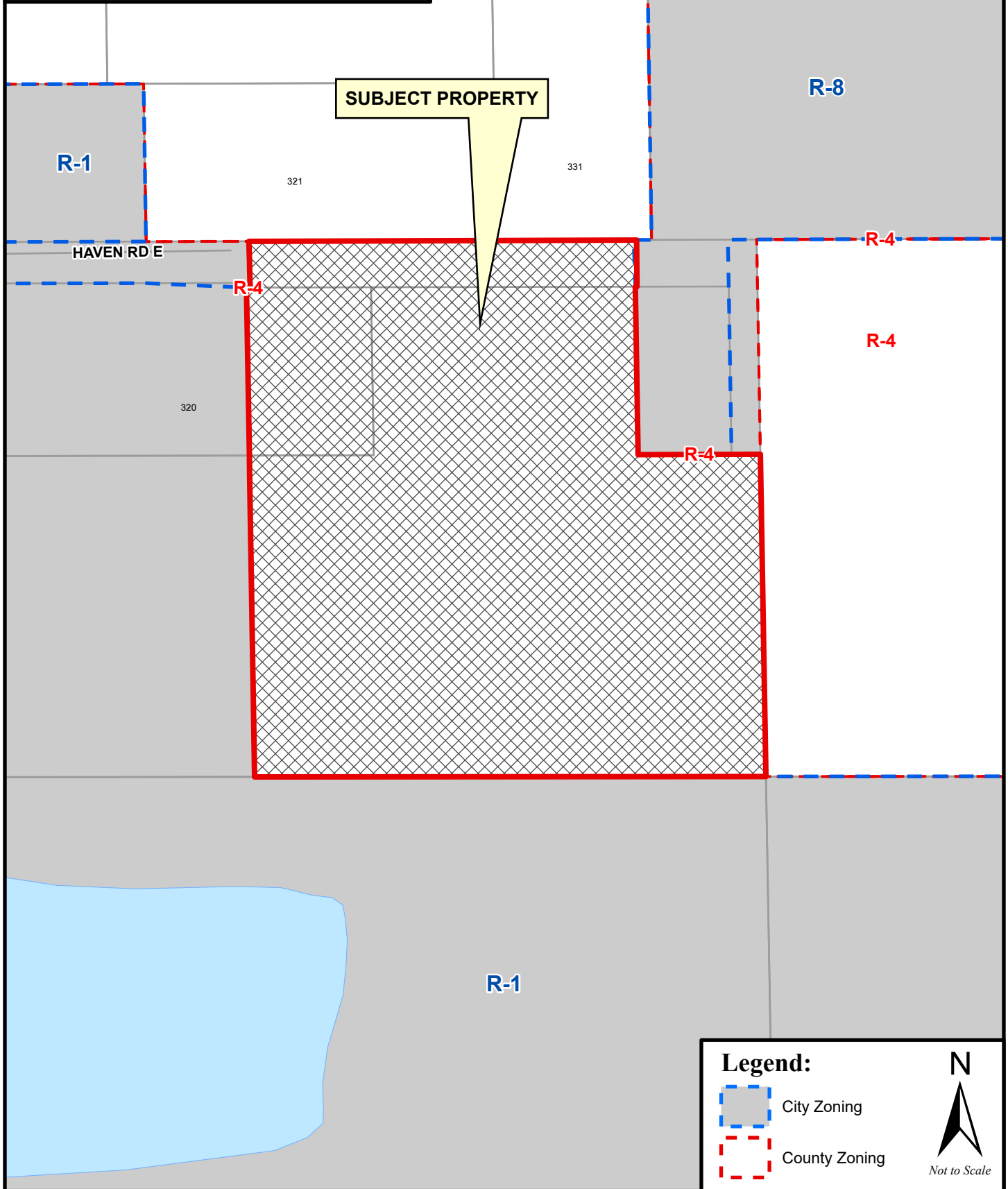
COMMENCE FROM THE NORTH 1/4 CORNER OF SECTION 21, TOWNSHIP 17 SOUTH, RANGE 30 EAST, OCCUPIED BY A 2 INCH IRON PIPE WITH NO IDENTIFICATION, IN THE ASPHALT ROAD; THENCE S01°03'28"E, ALONG THE WEST LINE OF THE NORTHEAST 1/4 OF SAID SECTION 21 AND THE WEST LINE HIRAM WATERS, MAP BOOK 3, PAGE 25 A DISTANCE OF 710.70 FEET TO A POINT BEING ON THE WESTERLY EXTENSION OF THE NORTH LINE OF EAST HAVEN STREET, (BEING A 30 FOOT RIGHT OF WAY, AS NOW LAID OUT AND OCCUPIED; THENCE N89°51'00"E ALONG SAID SOUTHERLY LINE, A DISTANCE OF 332.05 FEET; THENCE DEPART SAID NORTH RIGHT OF WAY S00°55'48"E ALONG THE WEST LINE OF THE EAST ½ OF LOT 5, A DISTANCE OF 15.00 FEET TO **THE POINT OF BEGINNING**; THENCE N89°51'00"E ALONG THE CENTER LINE OF EAST HAVEN ROAD A DISTANCE OF 252.01 FEET TO A POINT ON THE NORTHERLY EXTENSION OF THE WEST LINE OF THE EAST 80.00 FEET OF LOT 5 SAID HIRAM ACERS; THENCE DEPARTING SAID CENTER LINE S00°48'10"E ALONG THE WEST LINE OF THE EAST 80 FEET OF LOT 5, A DISTANCE OF 123.11 FEET TO THE SOUTHWEST CORNER OF THE EAST 80 FEET OF LOT 5; THENCE DEPARTING FROM SAID SOUTHWEST CORNER OF THE EAST 80 FEET OF LOT 5 N89°51'00"E ALONG THE SOUTH LINE OF LOT 5, 80.01 FEET TO THE SOUTH EAST CORNER OF LOT 5; THENCE DEPARTING FROM SAID SOUTHEAST CORNER OF LOT 5, S00°48'10"E ALONG THE EASTERLY LINE OF LOT 6 AND THE WEST LINE OF THE LANDS RECORDED ON OFFICIAL RECORDS BOOK 5166, PAGE 3678, A DISTANCE OF 206.28 FEET TO THE SOUTHWEST CORNER OF LOT 8 AND THE SOUTH EAST CORNER OF LOT 6; THENCE DEPARTING FROM SAID SOUTHWEST CORNER OF LOT 8 AND THE SOUTH EAST CORNER OF LOT 6, S89°56'35"W ALONG THE NORTH LINE OF LOT 7, SAID HIRAM WATERS GROVE, A DISTANCE OF 331.29 FEET TO THE SOUTHWEST CORNER OF THE EAST 1/2 OF LOT 6; THENCE DEPARTING FROM SAID SOUTHWEST CORNER OF THE EAST 1/2 OF LOT 6, N00°55'48"W ALONG THE WEST LINE OF THE EAST 1/2 OF LOT 6 AND THE WEST LINE OF THE EAST 1/2 OF LOT 5, 328.76 FEET TO THE POINT OF BEGINNING.

HAVING AN AREA OF 99285 SQUARE FEET, 2.2793 ACRES

# EXHIBIT B



City of DeLand  
PLANNING BOARD  
AN23-105  
JUNE 21, 2023







City of DeLand  
**PLANNING BOARD**  
AN23-105  
JUNE 21, 2023



**Legend:**

-  City Zoning
-  County Zoning





**PLANNING DEPARTMENT STAFF REPORT  
TO  
PLANNING BOARD**

**June 21, 2023**

**APPLICATION:** AN23-105

1. **Requested Action:** Annexation of lots 2 and 4 of the Hiram Water's Grove plat into the City limits of DeLand
2. **Location:** Located southeast of E. Haven Rd., west of S. Garfield Ave.
3. **Petitioner:** Ray Bahrami, City Engineer, on behalf of the city
4. **Owner:** City of DeLand
5. **Size of parcel(s):** ± 2.2793 acres
6. **Parcel ID:** 702102000060; 702102000052
7. **Land Use Designation & Zoning of Subject Property:**

**Future Land Use:** Volusia County: Urban Medium Intensity UMI

**Existing Zoning:** Volusia County: R-4

**Existing Use:** Undeveloped

8. **Surrounding Land Use & Zoning:**

|               | LAND USE | ZONING  |
|---------------|----------|---------|
| <b>North:</b> | VC: UMI  | VC: R-4 |
| <b>South:</b> | LDR      | R-1     |
| <b>East:</b>  | VC: UMI  | VC: R-4 |
| <b>West:</b>  | LDR      | R-1     |

**9. Physical Characteristics:** The subject property is located in unincorporated Volusia County and is currently zoned R-4 (Urban Single-Family) with a future land use designation of County UMI (Urban Medium Intensity). The subject property is one of multiple parcels being annexed into the city in an effort to expand the existing Public Works Complex. The ultimate goal is to combine the subject property with adjacent property owned by the City of DeLand, and combine them into a single property. However, not all of the zoning and land use designations of the parcels

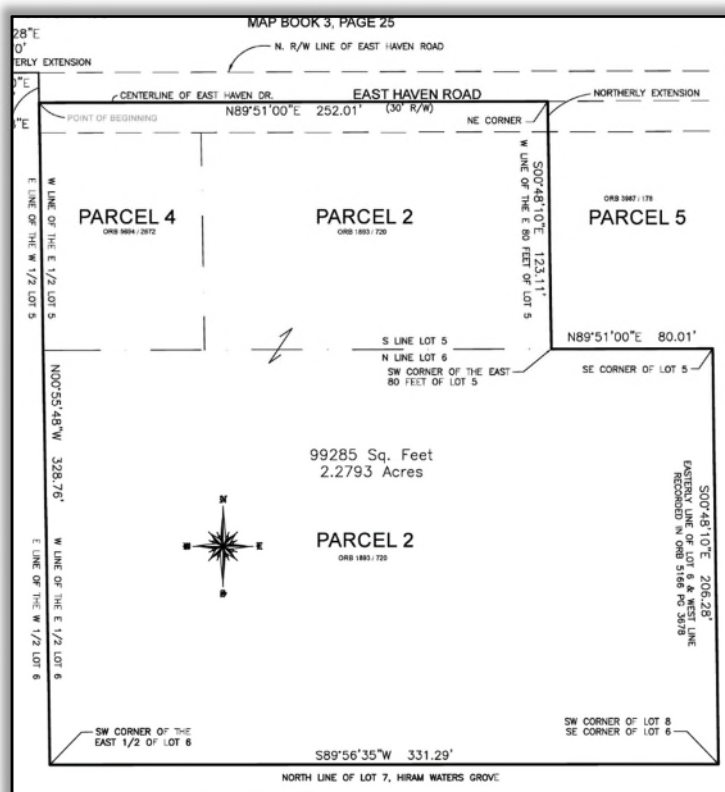
being assembled are the same. Therefore, prior to combining any of the city-owned parcels, the land use and zoning designations will need to be amended so that they are all consistent. The proposed annexation consists of  $\pm 2.2793$  acres, and will also include the southern half of E. Haven Rd. right-of-way. The subject property does not appear to contain any wetlands and does not lie within the 100-year flood zone. The parcel is wooded and undeveloped. The subject property is owned by the City of DeLand, and all site improvements will require review and approval of a separate site plan or other development application.

**10. Public Services & Utilities:** The City's Utilities Department determined the closest City water main is a 12" main on Amelia Ave. and a 2" main on Haven Rd., and the closest city sewer main is a 24" and an 8" gravity sewer line located on Haven Rd. The Police Department has determined the appropriate Patrol Zone (5), and the Fire Department has confirmed that there is adequate fire protection.

### 11. Growth Management Plan Consistency:

The city-owned property to the south of the subject property is the location of the existing Public Works department and future administrative building. To the north and west of the subject property are residential properties, less than a half-acre each. To the east is an existing industrial use.

**12. Analysis:** The City's guidelines for annexation require a property be sufficiently contiguous to property already within the city limits and to be accessible to public services provided. In addition, the State requires the property be reasonably compact, not circuitous, and does not create an enclave. The subject property does not create an enclave, is contiguous to the City of DeLand, is reasonably compact and is not circuitous. The parcel is contiguous to the city to the south by  $\pm 331$  ft. and to the west by  $\pm 328$  ft.



**Recommendation:** Staff recommends that the Planning Board forward this annexation petition to the City Commission, with a recommendation for approval.

Based upon the concurrency requirements of the State of Florida and the City's concurrency management plan, as adopted in Article 5, Sec. 33-41 of the Land Development Regulations, approval of the proposed annexation does not automatically provide vested development rights. At the time the developer applies for a development permit, adequate infrastructure must exist to support the proposed development. If such infrastructure does not exist, the developer may be required to incur additional expense to ensure that the necessary infrastructure is provided.

L:\COMMDEV\PLANNING\STAFF REPORTS\2023\PB\SR-AN23-105 Haven Rd

**CITY OF DELAND**  
**Request for Commission Action**  
**July 17, 2023**

**SUBJECT:** Resolution Approving Final Plat, Beresford Woods Phase 3 Subdivision.

**DEPARTMENT:** Planning

**PREPARED BY:** Carol Kuhn, Deputy Planning Director

**ATTACHMENTS:** Resolution, Beresford Woods Ph 3 PLAT, Beresford Woods Ph 3 MAP, School Concurrency Letter

**APPROVED BY:** Michael Pleus, City Manager, July 13, 2023

---

**SUMMARY/HIGHLIGHT:**

The applicant, Toni Boone from Dewberry Engineering, is seeking subdivision approval for 117 single-family residential lots on a 24.08-acre parcel, representing Phase 3 of the Beresford Woods Subdivision. This phase includes residential lots, open space tracts, recreational and tree protection areas, and rights-of-way. The Traffic Impact Analysis (TIA) was approved by Volusia County Traffic Engineering on January 4, 2021. School Concurrency was evaluated at the time of the preliminary plat (attached) (April 13, 2020). Staff reviewed the application for consistency with the approved preliminary plat (PSB20-033). At their December 15, 2022 meeting, the Technical Review Committee recommended forwarding this final plat to the City Commission pending all staff, legal, and surveyor comments being addressed. All the comments have been addressed as required.

**STRATEGIC PLAN FOCUS AREA/ACTION STEP:**

N/A

**SUSTAINABILITY:**

N/A

**FISCAL IMPACT:**

The subdivision has already been approved for construction and the recording of the final plat will allow for the individual lots and homes to be entered into the City's tax revenue.

**RECOMMENDATION:**

It is recommended that the City Commission approve the final plat for Beresford Woods Phase 3.

**BACKGROUND/DISCUSSION:**

At their January 20, 2021 meeting, the Planning Board recommended approval of the preliminary plat (PSB20-033). The applicant for the final plat, Toni Boone, Dewberry Engineering, seeks to develop the subject property as Phase 3 of the Beresford Woods residential subdivision. The overall development was approved for a total of 289 lots and this phase will contain 117 single-family lots.

**RESOLUTION NO. 2023 –**

**A RESOLUTION OF THE CITY COMMISSION OF DELAND, FLORIDA,  
APPROVING THE FINAL SUBDIVISION PLAT FOR BERESFORD  
WOODS PHASE 3, LOCATED AT SPRING GARDEN AVENUE AND  
BERESFORD ROAD; AND PROVIDING FOR A CONDITION AND AN  
EFFECTIVE DATE.**

**WHEREAS**, the applicant, Toni Boone, has submitted a proper and complete application under Chapter 33, Article 13, of the City of DeLand Code of Ordinances (hereinafter the “Code”) for the final plat approval for Beresford Woods Phase 3, located at Spring Garden Avenue and Beresford Road; and

**WHEREAS**, the applicant intends to develop the subject property as Phase 3, and will contain 117 single-family residential lots on approximately 24.08 acres of property; and

**WHEREAS**, on December 15, 2022, the Technical Review Committee (TRC) recommended approval of the final subdivision plat for Beresford Woods Phase 3.

**NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF DELAND, FLORIDA:**

**Section 1.** The City Commission hereby approves the final subdivision plat for Beresford Woods Phase 3, located at Spring Garden Avenue and Beresford Road on the condition that the applicant shall comply with any and all comments from the City Surveyor, City Engineer, and City Attorney.

**Section 2.** This Resolution shall become effective immediately upon its adoption.

**PASSED AND DULY ADOPTED** this 17<sup>th</sup> day of July, 2023.

---

Christopher M. Cloudman  
Mayor-Commissioner

**ATTEST:**

---

Julie A. Hennessy  
City Clerk – Auditor

**APPROVED AS TO FORM AND LEGALITY:**

---

Darren J. Elkind  
City Attorney



BERESFORD WOODS PHASE 3

LOCATED IN SECTION 19,TOWNSHIP 17 SOUTH, RANGE 30 EAST, CITY OF DELAND, VOLUSIA COUNTY, FLORIDA

LEGAL DESCRIPTION:

A PORTION OF SECTION 19, TOWNSHIP 17 SOUTH, RANGE 30 EAST, VOLUSIA COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHWEST CORNER OF THE SOUTHEAST 1/4 OF SAID SECTION 19; THENCE RUN NORTH 01°04'28" WEST ALONG THE WEST LINE OF THE SOUTHEAST 1/4 OF SAID SECTION 19, TOWNSHIP 17 SOUTH, RANGE 30 EAST, A DISTANCE OF 2651.74 FEET TO THE POINT OF BEGINNING; SAID POINT BEING THE SOUTHWEST CORNER OF THE NORTHEAST 1/4 OF SECTION 19; THENCE RUN NORTH 01°04'28" WEST ALONG THE WEST LINE OF THE NORTHEAST 1/4 OF SECTION 19, A DISTANCE OF 457.83 FEET; THENCE RUN NORTH 88°18'39" EAST, A DISTANCE OF 300.01 FEET; THENCE RUN SOUTH 55°45'19" EAST, A DISTANCE OF 18.10 FEET TO A POINT OF NON-TANGENCY OF A CURVE CONCAVE SOUTHERLY, HAVING A RADIUS OF 77.00 FEET, A CENTRAL ANGLE OF 54°03'57", A CHORD BEARING OF NORTH 61°16'40" EAST AND A CHORD DISTANCE OF 69.99 FEET; THENCE RUN NORTHERLY ALONG THE ARC OF SAID CURVE, A DISTANCE OF 72.66 FEET TO A POINT OF TANGENCY; THENCE RUN NORTH 88°18'39" EAST, A DISTANCE OF 48.00 FEET; THENCE RUN NORTH 01°41'21" WEST, A DISTANCE OF 260.00 FEET; THENCE RUN NORTH 02°58'32" WEST, A DISTANCE OF 50.01 FEET; THENCE RUN NORTH 00°54'31" EAST, A DISTANCE OF 76.47 FEET; THENCE RUN NORTH 28°36'37" EAST, A DISTANCE OF 94.68 FEET; THENCE RUN NORTH 01°36'50" WEST, A DISTANCE OF 10.67 FEET; THENCE RUN NORTH 88°23'10" EAST, A DISTANCE OF 231.87 FEET; THENCE RUN NORTH 01°41'21" WEST, A DISTANCE OF 162.01 FEET; THENCE RUN NORTH 14°58'17" EAST, A DISTANCE OF 75.45 FEET; THENCE RUN SOUTH 61°10'40" EAST, A DISTANCE OF 172.75 FEET TO A POINT OF NON-TANGENCY OF A CURVE CONCAVE EASTERLY, HAVING A RADIUS OF 25.00 FEET, A CENTRAL ANGLE OF 30°30'42", A CHORD BEARING OF SOUTH 13°33'59" WEST AND A CHORD DISTANCE OF 13.16 FEET; THENCE RUN SOUTHERLY ALONG THE ARC OF SAID CURVE, A DISTANCE OF 13.31 FEET TO A POINT OF TANGENCY; THENCE RUN SOUTH 01°41'21" EAST, A DISTANCE OF 90.00 FEET; THENCE RUN NORTH 88°18'39" EAST, A DISTANCE OF 228.53 FEET; THENCE RUN SOUTH 77°43'02" EAST, A DISTANCE OF 61.35 FEET; THENCE RUN SOUTH 56°56'51" EAST, A DISTANCE OF 76.08 FEET; THENCE RUN SOUTH 30°58'07" EAST, A DISTANCE OF 94.91 FEET; THENCE RUN SOUTH 01°41'21" EAST, A DISTANCE OF 663.44 FEET; THENCE RUN NORTH 88°18'39" EAST, A DISTANCE OF 17.21 FEET; THENCE RUN SOUTH 01°14'30" EAST, A DISTANCE OF 197.01 FEET; THENCE RUN SOUTH 88°18'39" WEST, A DISTANCE OF 1291.59 FEET TO POINT OF BEGINNING.

CONTAINING: 1,049,056 SQFT OR 24.08 AC, MORE OR LESS.

PLAT NOTES:

- BEARINGS SHOWN HEREON ARE BASED ON THE SOUTH LINE OF THE NORTHEAST 1/4 OF SECTION 19, TOWNSHIP 17 SOUTH, RANGE 30 EAST, VOLUSIA COUNTY, FLORIDA AS BEING S88°18'39"W.
- UNLESS OTHERWISE INDICATED, A STRIP OF LAND 10.00 FEED WDE TAT THE FRONT OF ALL LOTS AND TRACTS ADJACENT TO ROAD RIGHTS-OF-WAY AS DEPICTED HEREON, IS HEREBY RESERVED FOR PUBLIC UTILITIES, AND A PERPETUAL NON-EXCLUSIVE EASEMENT IS GRANTED TO ALL PUBLIC UTILITIES FOR THE INSTALLATION AND MAINTENANCE OF UTILITY INFRASTRUCTURE, INCLUDING BUT NOT LIMITED TO THE RIGHT OF ACCESS FOR SUCH PURPOSE.
- ALL CURVILINEAR LINES ARE RADIAL TO CURVES UNLESS OTHERWISE NOTED AS NON-RADIAL (NR).
- PURSUANT TO SECTION 177.091(28), FLORIDA STATUTES, ALL PLATTED UTILITY EASEMENTS SHALL ALSO BE EASEMENTS FOR THE CONSTRUCTION, INSTALLATION, MAINTENANCE, AND OPERATION OF CABLE TELEVISION SERVICES; PROVIDED, HOWEVER, NO SUCH CONSTRUCTION, INSTALLATION, MAINTENANCE, AND OPERATION OF CABLE TELEVISION SERVICES SHALL INTERFERE WITH THE FACILITIES AND SERVICES OF AN ELECTRIC, TELEPHONE, GAS, OR OTHER PUBLIC UTILITY. IN THE EVENT A CABLE TELEVISION COMPANY DAMAGES THE FACILITIES OF A PUBLIC UTILITY, IT SHALL BE SOLELY RESPONSIBLE FOR THE DAMAGES.
- TRACT C (OPEN SPACE/RECREATIONAL/TREE SAVE) ARE TO BE OWNED AND MAINTANED BY THE BERESFORD WOODS HOME OWNERS ASSOCIATION, INC.
- TRACTS A, E, F, AND G (TREE PROTECTION AREA) ARE TO BE OWNED AND MAINTAINED BY THE BERESFORD WOODS HOME OWNERS ASSOCIATION, INC.
- THE ROAD RESERVATIONS RECORDED PER A DEED OF PARTITION RECORDED IN OFFICIAL RECORDS BOOK 1037, PAGES 522-533, APPEAR TO HAVE BEEN RESERVED IN FAVOR OF THE UNDERLYING OWNER. NO DOCUMENTATION HAS BEEN PROVIDED CONVEYING SAID ROAD RESERVATIONS TO THE PUBLIC OR ANY OTHER GOVERNING AGENCY UNLESS OTHERWISE NOTED.
- LOT CORNERS TO BE SET BEFORE THE TRANSFER OF A LOT PER CHAPTER 177.
- THIS PLAT MAY BE SUBJECT TO MATTERS AS SHOWN IN PLAT PROPERTY INFORMATION REPORT PREPARED BY FIDELITY NATIONAL TITLE INSURANCE COMPANY, ORDER NUMBER 10749671, DATED MAY 1, 2023. ONLY MATTERS THAT AFFECT THIS PLAT ARE LISTED BELOW:

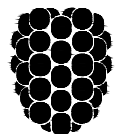
NO MATTERS LISTED AFFECT

SHEET INDEX

SHEET 1: COVER SHEET/LEGEND  
SHEET 2: KEY SHEET  
SHEETS 3 – 5 : DETAIL SHEETS

NOTICE

THIS PLAT, AS RECORDED IN ITS GRAPHIC FORM, IS THE OFFICIAL DEPICTION OF THE SUBDIVIDED LANDS DESCRIBED HEREIN AND WILL, IN NO CIRCUMSTANCES BE SUPPLANTED IN AUTHORITY BY ANY OTHER GRAPHIC OR DIGITAL FORM OF THE PLAT. THERE MAY BE ADDITIONAL RESTRICTIONS THAT ARE NOT RECORDED ON THIS PLAT THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY.



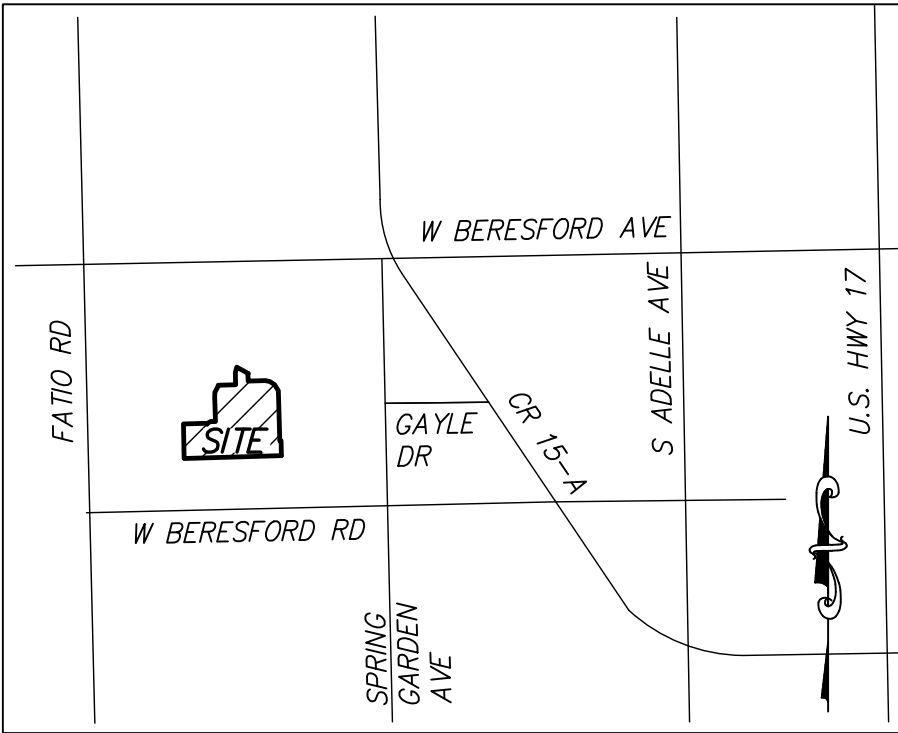
**Dewberry**

110 WEST INDIANA AVENUE, SUITE 202  
DELAND, FLORIDA 32720  
PHONE: 386.765.0468 FAX: 386.765.0715  
WWW.DEWBERRY.COM

CERTIFICATE OF AUTHORIZATION NO. LB 8011

LEGEND AND ABBREVIATIONS:

|           |                                    |      |                                          |
|-----------|------------------------------------|------|------------------------------------------|
| CCR       | CERTIFIED CORNER RECORD            | PI   | POINT OF INTERSECTION                    |
| CB        | CHORD BEARING                      | POB  | POINT OF BEGINNING                       |
| COR       | CORNER                             | POC  | POINT OF COMMENCEMENT                    |
| CH        | CHORD DISTANCE                     | PRC  | POINT OF REVERSE CURVATURE               |
| CL        | CENTER LINE                        | PRM  | PERMANENT REFERENCE MONUMENT             |
| CM        | CONCRETE MONUMENT                  | PSM  | PROFESSIONAL SURVEYOR MAPPER             |
| D.E.      | DRAINAGE EASEMENT                  | PT   | POINT OF TANGENCY                        |
| D.U.&S.E. | DRAINAGE, UTILITY & SLOPE EASEMENT | PNT  | POINT OF NON-TANGENCY                    |
| FND       | FOUND                              | R    | RADIUS                                   |
| ID        | IDENTIFICATION                     | RP   | RADIUS POINT                             |
| IP        | IRON PIPE                          | R/W  | RIGHT OF WAY                             |
| LB        | ARC LENGTH                         | REC  | RECREATIONAL AREA                        |
| LB        | LICENSED BUSINESS                  | SEC  | SECTION-TOWNSHIP-RANGE                   |
| M.B.      | MAP BOOK                           | SEC  | TYPICAL                                  |
| N/D       | NAIL & DISK                        | U.E. | UTILITY EASEMENT                         |
| NO.       | NUMBER                             | Δ    | CENTRAL ANGLE                            |
| (NR)      | NON-RADIAL                         | ~    | BREAK LINE                               |
| ORB       | OFFICIAL RECORDS BOOK              | ■    | SET 4"x4" CM (PRM LB 8110)               |
| PC        | POINT OF CURVATURE                 | ■    | FOUND 4"x4" CM (PRM LB 1221)             |
| PCC       | POINT OF COMPOUND CURVATURE        | ⊙    | SET N/D (PCP LB8011)                     |
| PCP       | PERMANENT CONTROL POINT            | ⊙    | FOUND N/D (PCP LB 68)                    |
| PG(S)     | PAGE/PAGES                         | ⊙    | SET 5/8" IRON ROD & CAP (LB8011)         |
| E.A.E.    | ELECTRIC ACCESS EASEMENT           | ○    | LOT CORNER (5/8" IRON ROD & CAP (LB8011) |
| (OA)      | OVERALL                            |      | SEE NOTE #10                             |
| (O.S.)    | OPEN SPACE                         |      |                                          |
| (TPA)     | TREE PROTECTION AREA               |      |                                          |



VICINITY MAP  
(NOT TO SCALE)

JOINDER & CONSENT TO DEDICATION

THE UNDERSIGNED HEREBY CERTIFIES THAT IT IS THE HOLDER OF THAT CERTAIN MORTGAGE AND SECURITY AGREEMENT FROM HANOVER BERESFORD WOODS, LLC, A FLORIDA LIMITED LIABILITY COMPANY, IN FAVOR OF REGIONS BANK, AN ALABAMA BANKING CORPORATION, DATED MAY 19, 2021 AND RECORDED JUNE 04, 2021 IN OFFICIAL RECORDS BOOK 8059, PAGE 3060, TOGETHER WITH ASSIGNMENT OF LEASES, RENTS AND PROFITS RECORDED IN OFFICIAL RECORDS BOOK 8059, PAGE 3084, ALONG WITH RELATED UCC-1 FINANCING STATEMENT FROM HANOVER BERESFORD WOODS, LLC, A FLORIDA LIMITED LIABILITY COMPANY, RECORDED IN OFFICIAL RECORDS BOOK 8059, PAGE 3090, ALL OF THE PUBLIC RECORDS OF VOLUSIA COUNTY, FLORIDA, AND CONSENTS TO THE DEDICATION OF THE LANDS DESCRIBED IN THIS PLAT AND AGREES THAT ITS FOREGOING DESCRIBED LIENS SHALL BE SUBORDINATED TO SAID DEDICATION.

REGIONS BANK, AN ALABAMA BANKING CORPORATION

BY: \_\_\_\_\_  
PRINTED NAME (TITLE)

SIGNED, SEALED AND DELIVERED IN THE PRESENCE OF:

WITNESS: \_\_\_\_\_  
SIGNATURE PRINTED NAME

WITNESS: \_\_\_\_\_  
SIGNATURE PRINTED NAME

STATE OF FLORIDA, COUNTY OF \_\_\_\_\_

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS

\_\_\_\_ DAY OF \_\_\_\_\_, 2023 BY \_\_\_\_\_ ON BEHALF OF SAID BANK, SAID PERSON ACKNOWLEDGED BEFORE ME BY MEANS OF [ ] PHYSICAL PRESENCE OR [ ] ONLINE NOTARIZATION AND [ ] IS PERSONALLY KNOWN TO ME OR [ ] HAS PRODUCED \_\_\_\_\_ AS IDENTIFICATION.

SIGNATURE OF NOTARY PUBLIC AFFIX NOTARY

PRINTED, TYPED OR STAMPED NOTARY NAME

NOTARY PUBLIC, STATE OF \_\_\_\_\_

COMMISSION NO.: \_\_\_\_\_

MY COMMISSION EXPIRES: \_\_\_\_\_

MAP BOOK: PAGE:

BERESFORD WOODS PHASE 3  
DEDICATION

KNOW ALL MEN BY THESE PRESENTS, THAT THE ENTITY NAMED BELOW, BEING THE OWNER IN FEE SIMPLE OF THE LAND DESCRIBED IN THIS PLAT ("PROPERTY") HEREBY DEDICATES AND CONVEYS SAID LANDS AND PLAT FOR THE USES AND PURPOSES THEREIN EXPRESSED AND HEREBY: (1) DEDICATES AND CONVEYS THE FEE SIMPLE TITLE TO TRACT C (OPEN SPACE/LANDSCAPE BUFFER AREA) AND TRACTS A, E, F, AND G (TREE PROTECTION AREA) TO THE BERESFORD WOODS HOME OWNERS ASSOCIATION, INC.; AND (2) DEDICATES TRACT EE, NN AND MM (PUBLIC ROAD RIGHT OF WAY) TO THE PUBLIC.

IN WITNESS WHEREOF, THE OWNER HAS CAUSED THESE PRESENTS TO BE SIGNED AND ATTESTED TO BY THE OFFICER NAMED BELOW AND ITS CORPORATE SEAL TO BE AFFIXED HERETO ON \_\_\_\_\_, A.D. 2023.

HANOVER BERESFORD WOODS, LLC

BY: \_\_\_\_\_  
WILLIAM S. OROSZ JR, PRESIDENT

SIGNED, SEALED AND DELIVERED IN THE PRESENCE OF:

WITNESS: \_\_\_\_\_  
SIGNATURE PRINTED NAME

WITNESS: \_\_\_\_\_  
SIGNATURE PRINTED NAME

STATE OF FLORIDA, COUNTY OF VOLUSIA

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2023, BY WILLIAM S. OROSZ, AS PRESIDENT FOR BERESFORD WOODS, LLC, ON BEHALF OF THE COMPANY. SAID PERSON ACKNOWLEDGED BEFORE ME BY MEANS OF [ ] PHYSICAL PRESENCE OR [ ] ONLINE NOTARIZATION AND [ ] IS PERSONALLY KNOWN TO ME OR [ ] HAS PRODUCED \_\_\_\_\_ AS IDENTIFICATION.

SIGNATURE OF NOTARY PUBLIC PRINTED, TYPED OR STAMPED  
NOTARY NAME NOTARY SEAL

COMMISSION NO.: \_\_\_\_\_ EXPIRATION: \_\_\_\_\_

CERTIFICATE OF APPROVAL OF THE DESIGN AND  
INSTALLATION OF STREETS, UTILITIES AND OTHER  
REQUIRED IMPROVEMENTS

I HEREBY CERTIFY THAT ALL STREETS, UTILITIES AND OTHER REQUIRED IMPROVEMENTS HAVE BEEN INSTALLED IN AN ACCEPTABLE MANNER AND ACCORDING TO CITY SPECIFICATIONS AND STANDARDS AND ALL APPLICABLE REGULATIONS IN THE BERESFORD WOODS SUBDIVISION PHASE 3, OR THAT A GUARANTEE OF THE INSTALLATION OF THE REQUIRED IMPROVEMENTS IN A MANNER ACCORDING TO SECTION 33-147 OF THE CITY CODE HAS BEEN RECEIVED.

CITY ENGINEER DATE

QUALIFICATION STATEMENT OF SURVEYOR AND MAPPER

KNOW ALL MEN BY THESE PRESENTS, THAT THE UNDERSIGNED IS A FLORIDA REGISTERED SURVEYOR AND MAPPER, THAT THE FOREGOING PLAT WAS PREPARED UNDER HIS DIRECTION AND SUPERVISION; THAT PERMANENT REFERENCE MONUMENTS HAVE BEEN PLACED AND THAT PERMANENT CONTROL POINTS HAVE BEEN OR WILL BE PLACED AS REQUIRED BY ALL STATE AND LOCAL REGULATIONS; AND THAT THIS PLAT COMPLIES WITH ALL SURVEY REQUIREMENTS OF CHAPTER 177, PART 1, FLORIDA STATUTES. THE LAND DESCRIBED HEREON LIES IN SECTION 19, TOWNSHIP 17 SOUTH, RANGE 30 EAST, CITY OF DELAND, VOLUSIA COUNTY, FLORIDA.

(SIGNATURE) DATE:  
WILLIAM P. HINKLE  
PROFESSIONAL SURVEYOR AND MAPPER LS. 4633  
DEWBERRY ENGINEERS INC.  
110 WEST INDIANA AVENUE, SUITE 202  
DELAND, FLORIDA 32720  
CERTIFICATE OF AUTHORIZATION NO. LB 8011

CERTIFICATE OF APPROVAL

I HEREBY CERTIFY THAT THIS PLAT HAS BEEN REVIEWED FOR THE CONFORMITY TO THE REQUIREMENTS OF CHAPTER 177, PART 1 OF FLORIDA STATUTES. NO CONFIRMATION OF MATHEMATICAL CLOSURE OR THE PLACEMENT OF PRM'S AND PCP'S IN THE FIELD WAS MADE IN THIS REVIEW.

CPH, LLC LB#7143  
500 WEST WILTON STREET  
SANFORD, FL 32771

FOR THE FIRM BY: \_\_\_\_\_ DATE:  
RANDALL L. ROBERTS, R.L.S.  
FLORIDA REGISTRATION NUMBER 3144  
STATE OF FLORIDA

CERTIFICATE OF APPROVAL BY THE CITY COMMISSION

THE DELAND CITY COMMISSION DOES HEREBY APPROVE THE FINAL PLAT OF:

BERESFORD WOODS PHASE 3

CHRISTOPHER M. CLOUDMAN, MAYOR, CITY OF DELAND DATE

CERTIFICATE OF CLERK

I HEREBY CERTIFY, THAT I HAVE EXAMINED THE FOREGOING PLAT AND FIND THAT IT COMPLIES IN FORM WITH ALL THE REQUIREMENTS OF CHAPTER 177, FLORIDA STATUTES, AND WAS FILED FOR RECORD ON \_\_\_\_\_, 2023

AT \_\_\_\_\_, FILE NO. \_\_\_\_\_

BY: \_\_\_\_\_  
CLERK OF THE CIRCUIT COURT IN AND  
FOR VOLUSIA COUNTY, FLORIDA

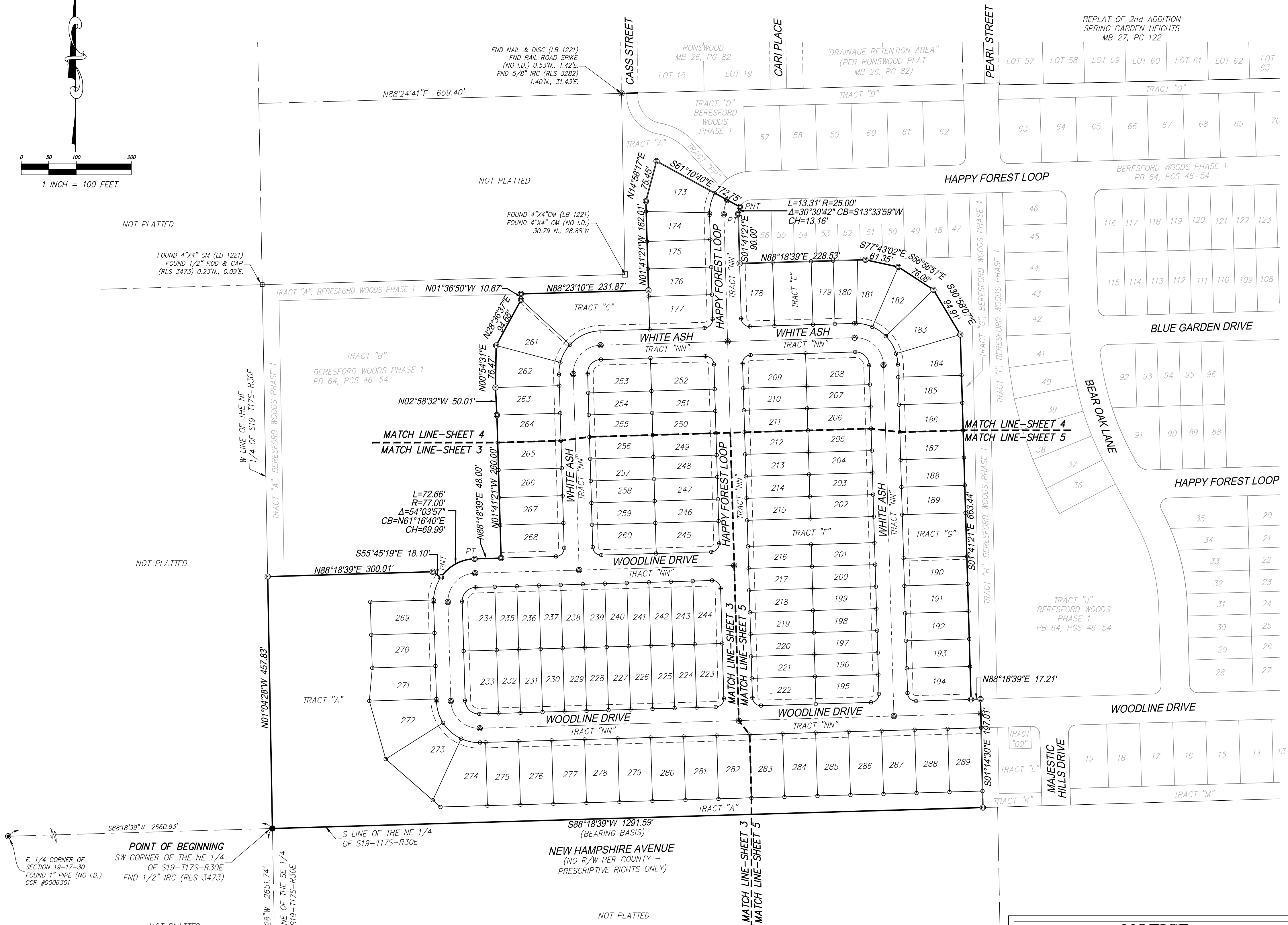
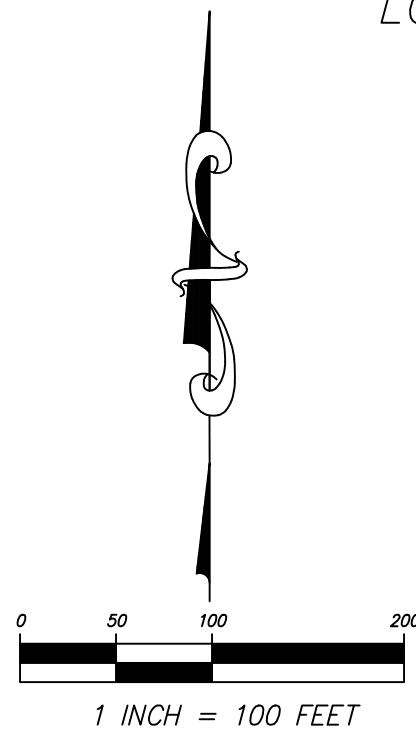


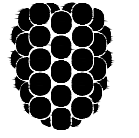
# BERESFORD WOODS PHASE 3

LOCATED IN SECTION 19, TOWNSHIP 17 SOUTH, RANGE 30 EAST, CITY OF DELAND, VOLUSIA COUNTY, FLORIDA

MAP BOOK:

PAGE:



**Dewberry**  
110 WEST INDIANA AVENUE, SUITE 202  
DELAND, FLORIDA 32720  
PHONE: 386.765.0468 FAX: 386.765.0715  
WWW.DEWBERRY.COM  
CERTIFICATE OF AUTHORIZATION NO. LB 8011

**POINT OF COMMENCEMENT**  
SW CORNER OF SE 1/4 OF S19-T17S-R30E  
FOUND 4"x4" CM (NO I.D.)  
CCR# 0006303  
FOUND 1" PIPE (NO I.D.)  
15.24'N., 43.47'E.

| SHEET INDEX                  |  |
|------------------------------|--|
| SHEET 1: COVER SHEET/LEGEND  |  |
| SHEET 2: KEY SHEET           |  |
| SHEETS 3 - 5 : DETAIL SHEETS |  |

**NOTICE**  
THIS PLAT, AS RECORDED IN ITS GRAPHIC FORM, IS THE OFFICIAL DEPICTION OF THE SUBDIVIDED LANDS DESCRIBED HEREIN AND WILL IN NO CIRCUMSTANCES BE SUPPLANTED IN AUTHORITY BY ANY OTHER GRAPHIC OR DIGITAL FORM OF THE PLAT. THERE MAY BE ADDITIONAL RESTRICTIONS THAT ARE NOT RECORDED ON THIS PLAT THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY.



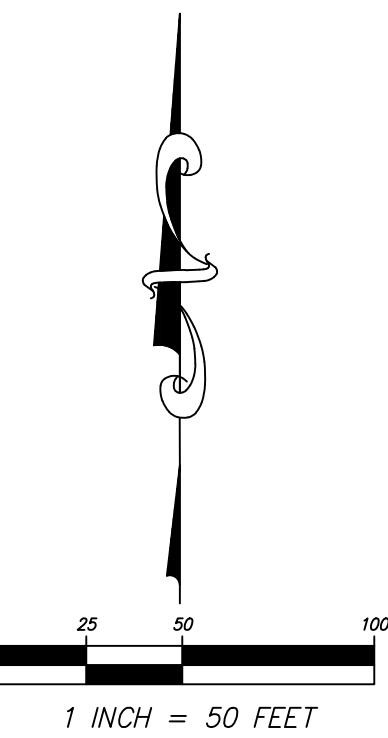
# BERESFORD WOODS PHASE 3

LOCATED IN SECTION 19, TOWNSHIP 17 SOUTH, RANGE 30 EAST, CITY OF DELAND, VOLUSIA COUNTY, FLORIDA

MAP BOOK:

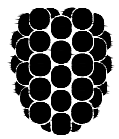
PAGE:

| CURVE TABLE |         |        |           |         |             |
|-------------|---------|--------|-----------|---------|-------------|
| CURVE       | LENGTH  | RADIUS | DELTA     | CHORD   | BEARING     |
| C13         | 80.11'  | 51.00  | 90°00'00" | 72.12'  | S46°41'21"E |
| C14         | 80.11'  | 51.00  | 90°00'00" | 72.12'  | S43°18'39"W |
| C64         | 35.50'  | 77.00  | 26°25'09" | 35.19'  | S78°28'47"E |
| C65         | 44.35'  | 77.00  | 33°00'04" | 43.74'  | S48°46'10"E |
| C66         | 41.10'  | 77.00  | 30°34'47" | 40.61'  | S16°58'45"E |
| C67         | 4.44'   | 77.00  | 03°18'10" | 4.44'   | S00°02'16"E |
| C68         | 43.85'  | 77.00  | 32°37'53" | 43.26'  | S17°55'45"W |
| C70         | 23.56'  | 15.00  | 90°00'00" | 21.21'  | N43°18'39"E |
| C141        | 23.56'  | 15.00  | 90°00'00" | 21.21'  | N43°18'39"E |
| C142        | 23.56'  | 15.00  | 90°00'00" | 21.21'  | S46°41'21"E |
| C144        | 23.56'  | 15.00  | 90°00'00" | 21.21'  | N46°41'21"W |
| C145        | 23.56'  | 15.00  | 90°00'00" | 21.21'  | N43°18'39"E |
| C146        | 39.27'  | 25.00  | 90°00'00" | 35.36'  | S46°41'21"E |
| C147        | 39.27'  | 25.00  | 90°00'00" | 35.36'  | S43°18'39"W |
| C158        | 120.95' | 77.00  | 90°00'00" | 108.89' | S43°18'39"W |
| C159        | 120.95' | 77.00  | 90°00'00" | 108.89' | S46°41'21"E |



POINT OF BEGINNING  
SW CORNER OF THE NE 1/4  
19-17-30 FOUND 1/2"  
ROD & CAP (RLS 3473)

POINT OF COMMENCEMENT  
SW COR. OF THE SE 1/4 OF S19-T17S-R30E  
FOUND 4"x4" CM (NO I.D.)  
FOUND 1" PIPE (NO I.D.)  
15.24"N., 43.47"E.



**Dewberry**

110 WEST INDIANA AVENUE, SUITE 202  
DELAND, FLORIDA 32720  
PHONE: 386.765.0468 FAX: 386.765.0715  
WWW.DEWBERRY.COM

CERTIFICATE OF AUTHORIZATION NO. LB 8011

MATCH LINE - SHEET 4

MATCH LINE - SHEET 4

MATCH LINE - SHEET 5

MATCH LINE - SHEET 5

## SHEET INDEX

SHEET 1: COVER SHEET/LEGEND  
SHEET 2: KEY SHEET  
SHEETS 3 - 5 : DETAIL SHEETS

## NOTICE

THIS PLAT, AS RECORDED IN ITS GRAPHIC FORM, IS THE OFFICIAL  
DEPICTION OF THE SUBDIVIDED LANDS DESCRIBED HEREIN AND WILL IN  
NO CIRCUMSTANCES BE SUPPLANTED IN AUTHORITY BY ANY OTHER  
GRAPHIC OR DIGITAL FORM OF THE PLAT. THERE MAY BE ADDITIONAL  
RESTRICTIONS THAT ARE NOT RECORDED ON THIS PLAT THAT MAY BE  
FOUND IN THE PUBLIC RECORDS OF THIS COUNTY.

SHEET 3 OF 5



## MAP BOOK: PAGE:

PAGE:



CERTIFICATE OF AUTHORIZATION No. LB 8011

CURVE TABLE

*SHEET 4 OF 5*

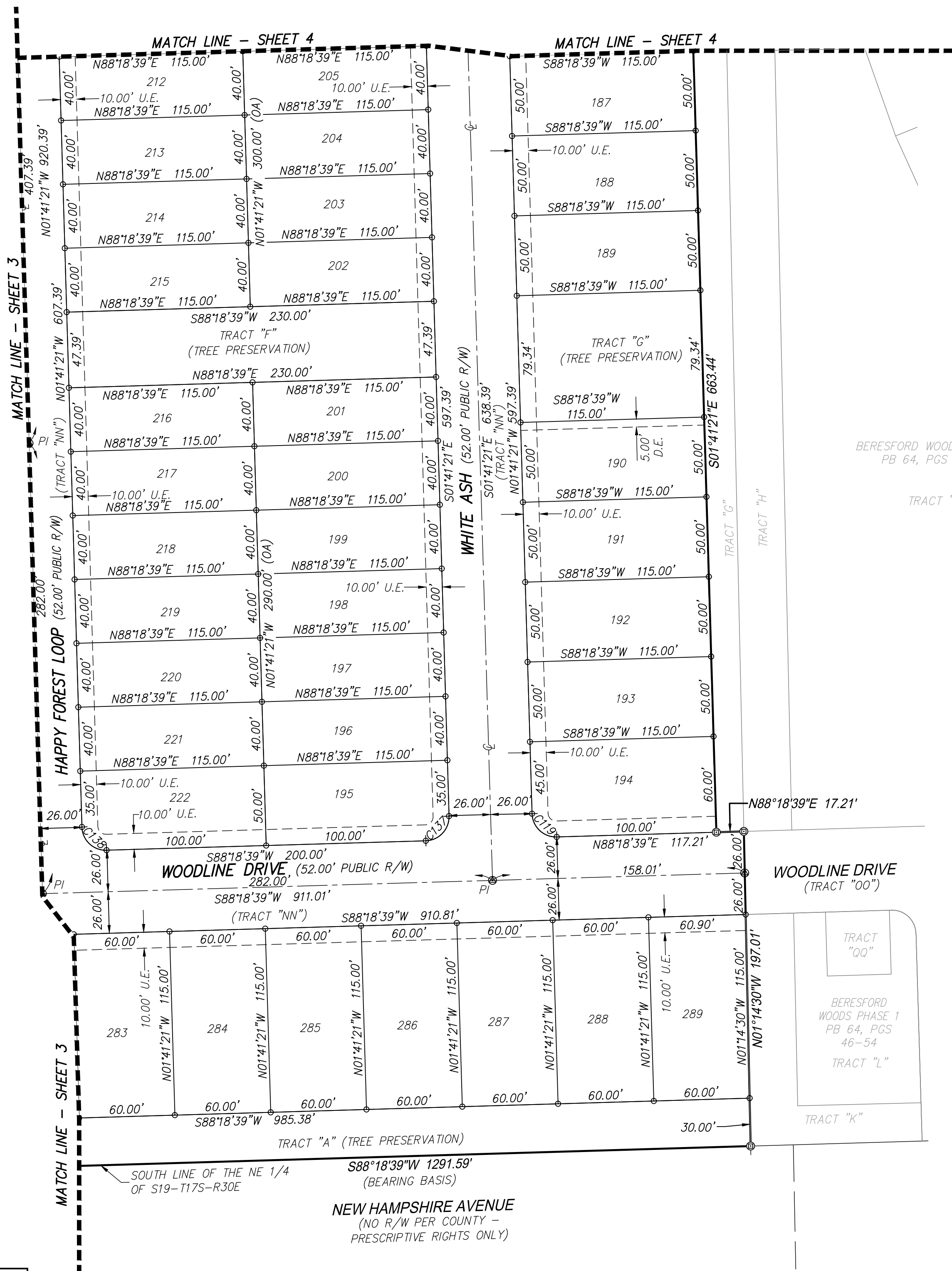


BERESFORD WOODS  
PHASE 3

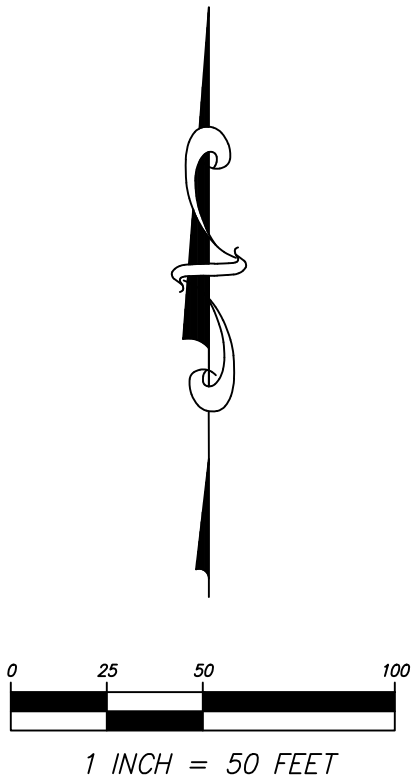
LOCATED IN SECTION 19, TOWNSHIP 17 SOUTH, RANGE 30 EAST, CITY OF DELAND, VOLUSIA COUNTY, FLORIDA

MAP BOOK:

PAGE:



| CURVE TABLE |        |        |           |        |             |
|-------------|--------|--------|-----------|--------|-------------|
| CURVE       | LENGTH | RADIUS | DELTA     | CHORD  | BEARING     |
| C119        | 23.56' | 15.00  | 90°00'00" | 21.21' | S46°41'21"E |
| C137        | 23.56' | 15.00  | 90°00'00" | 21.21' | N43°18'39"E |
| C138        | 23.56' | 15.00  | 90°00'00" | 21.21' | S46°41'21"E |



SHEET INDEX

SHEET 1: COVER SHEET/LEGEND  
SHEET 2: KEY SHEET  
SHEETS 3 - 5 : DETAIL SHEETS

NOTICE

THIS PLAT, AS RECORDED IN ITS GRAPHIC FORM, IS THE OFFICIAL DEPICTION OF THE SUBDIVIDED LANDS DESCRIBED HEREIN AND WILL IN NO CIRCUMSTANCES BE SUPPLANTED IN AUTHORITY BY ANY OTHER GRAPHIC OR DIGITAL FORM OF THE PLAT. THERE MAY BE ADDITIONAL RESTRICTIONS THAT ARE NOT RECORDED ON THIS PLAT THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY.



**Dewberry**

110 WEST INDIANA AVENUE, SUITE 202  
DELAND, FLORIDA 32720  
PHONE: 386.785.0468 FAX: 386.785.0715  
WWW.DEWBERRY.COM

CERTIFICATE OF AUTHORIZATION NO. LB 8011









Dr. Scott Fritz  
Superintendent of Schools

School Board of Volusia County

Mrs. Ida D. Wright, Chairman  
Mrs. Linda Cuthbert, Vice-Chairman  
Mr. Carl Persis  
Mr. Ruben Colón  
Ms. Jamie M. Haynes

April 13, 2020

Madden, Moorhead, and Stokes, LLC  
Nicole Martin  
431 E. Horatio Ave. Suite 260  
Maitland, FL 32751

RE: Beresford Woods – City of DeLand  
School Capacity Review #20-03-31-001-R

### School Concurrency Determination Concurrency Letter

Dear Ms. Martin,

The District has reviewed the updated information for the residential project known as Beresford Woods, associated with 88.85+/- acres of property. The property is located westside of SR 15A south of W. Beresford Ave and north of W. Beresford Road, located within the city limits of DeLand. Information provided within the school concurrency application indicates the development activity will consist of two hundred eighty-nine (289) single family units.

The district uses a county wide Student Generation Rate (SGR) of (0.273) per single family and (0.127) per multi-family dwelling unit to calculate projected students<sup>1</sup>. By applying the SGRs to the unit types in Table 1 below, we find the project could generate seventy-nine (79) full time students.

Table 1

| UNIT TYPE                               | SGR          | UNIT COUNT | STUDENTS GENERATED |
|-----------------------------------------|--------------|------------|--------------------|
| Single Family Dwelling Unit             | .273         | 289        | 78.90              |
| Multi Family Dwelling Unit              | .127         | 0          | 0                  |
| Mobile/ Manufactured Home Dwelling Unit | .047         | 0          | 0                  |
|                                         | <b>Total</b> |            | <b>79</b>          |

The schools impacted by this development are Woodward Elementary, Southwestern Middle School, and DeLand High School.

<sup>1</sup> Most recent student generation rates are found in the School Impact Fee Update dated February 19, 2019. Study performed by Tindale Oliver.

FACILITIES SERVICES  
3750 OLSON DRIVE, DAYTONA BEACH, FLORIDA 32124  
PHONE: 386/734-7190 □ FAX: 386/506-5056

An Equal Opportunity Employer

Beresford Woods – City of DeLand  
April 13, 2020

The Concurrency Analysis (Table 2) adjusts for impacts to the Concurrency Service Areas (CSAs) by accounting for current school year enrollments, existing reservations at the impacted schools, and the projected students generated by the applicant. These factors give an associated utilization or Level of Service (LOS) percentage for each CSA.

### Concurrency Analysis

Table 2

| Schools                    | Adopted LOS | SY 19/20 Enrollment | Active Reservations | Existing LOS w/ Res | Students Generated by Request | Result LOS |
|----------------------------|-------------|---------------------|---------------------|---------------------|-------------------------------|------------|
| Woodward Elementary        | 115%        | 631                 | 0                   | 100%                | 31                            | 105%       |
| Southwestern Middle School | 115%        | 799                 | 4                   | 91%                 | 16                            | 93%        |
| West CSA (DeLand HS)       | 120%        | 5433                | 328                 | 104%                | 26                            | 104%       |
| Other                      |             |                     |                     |                     | 6                             |            |

The adopted LOS standard at elementary and middle school is (115%) of permanent student stations, and (120%) for high school CSAs. This projected increase in students will not exceed the adopted LOS at the any school level; therefore, the school district does not have an objection to the proposed site plan. Minimum planning considerations should include pedestrian and vehicular access, safety, connectivity, and buffering.

Please note that the School Board has the right to adjust the attendance boundaries to balance the student enrollment populations at these area schools. Therefore, students generated from this project may not attend the current assigned schools.

If you should have additional questions or require more information, please feel free to contact me at extension 50806.

Sincerely,



Saralee L. Morrissey, FAICP  
Director, Planning and Construction

Cc: Dr. Scott Fritz, Superintendent of Schools  
Mike Holmes, City of DeLand Planning Director  
Kiersta Hill, VCSB Planning Services  
Project File

FACILITIES SERVICES  
3750 OLSON DRIVE, DAYTONA BEACH, FLORIDA 32124  
PHONE: 386/734-7190 □ FAX: 386/506-5056

An Equal Opportunity Employer





## ***Certificate of School Concurrency***

**Volusia County School Board**

| <b>Project Information</b>        |                                                                            |
|-----------------------------------|----------------------------------------------------------------------------|
| <b>Project Name</b>               | Beresford Woods                                                            |
| <b>VCSB Project #</b>             | <b>20-03-31-001-R</b>                                                      |
| <b>Jurisdiction Project#</b>      |                                                                            |
| <b>Parcel ID Numbers:</b>         | 7019-00-00-0090; 7019-00-00-0100; 7020-00-00-1020                          |
| <b>Project Location:</b>          | Westside of SR 15A S. South of Beresford Ave and North of W. Beresford Rd. |
| <b># of residential units:</b>    | 289                                                                        |
| <b>Residential Unit Type:</b>     | Single Family                                                              |
| <b>Property Owner/ Purchaser:</b> | ZDA Land Investments LLC – Allan Goldberg                                  |
| <b>Applicant/Agent Name:</b>      | Madden Moorhead & Stokes LLC- Nicole Martin                                |

This School Concurrency Certificate shall reserve student stations for the above referenced project and shall confirm that said project meets the School Concurrency requirements of the adopted Interlocal Agreement for Public School Facility Planning.

| <b>School Concurrency Analysis</b>                                                                                                    |                   |               |             |              |                                        |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------|-------------|--------------|----------------------------------------|
| <b>School Levels:</b>                                                                                                                 | <b>Elementary</b> | <b>Middle</b> | <b>High</b> | <b>Other</b> | <b>Total Student Stations Reserved</b> |
| <b>Students Generated</b>                                                                                                             | <b>31</b>         | <b>16</b>     | <b>26</b>   | <b>6</b>     | <b>79</b>                              |
| <b>Comments:</b><br>This certificate is required to be included with the building permit submittal(s) as proof of school concurrency. |                   |               |             |              |                                        |

**This concurrency reservation shall expire two (2) years from the date of issuance of this certificate.**

\_\_\_\_\_  
Saralee L. Morrissey, FAICP  
Director, Planning and Construction

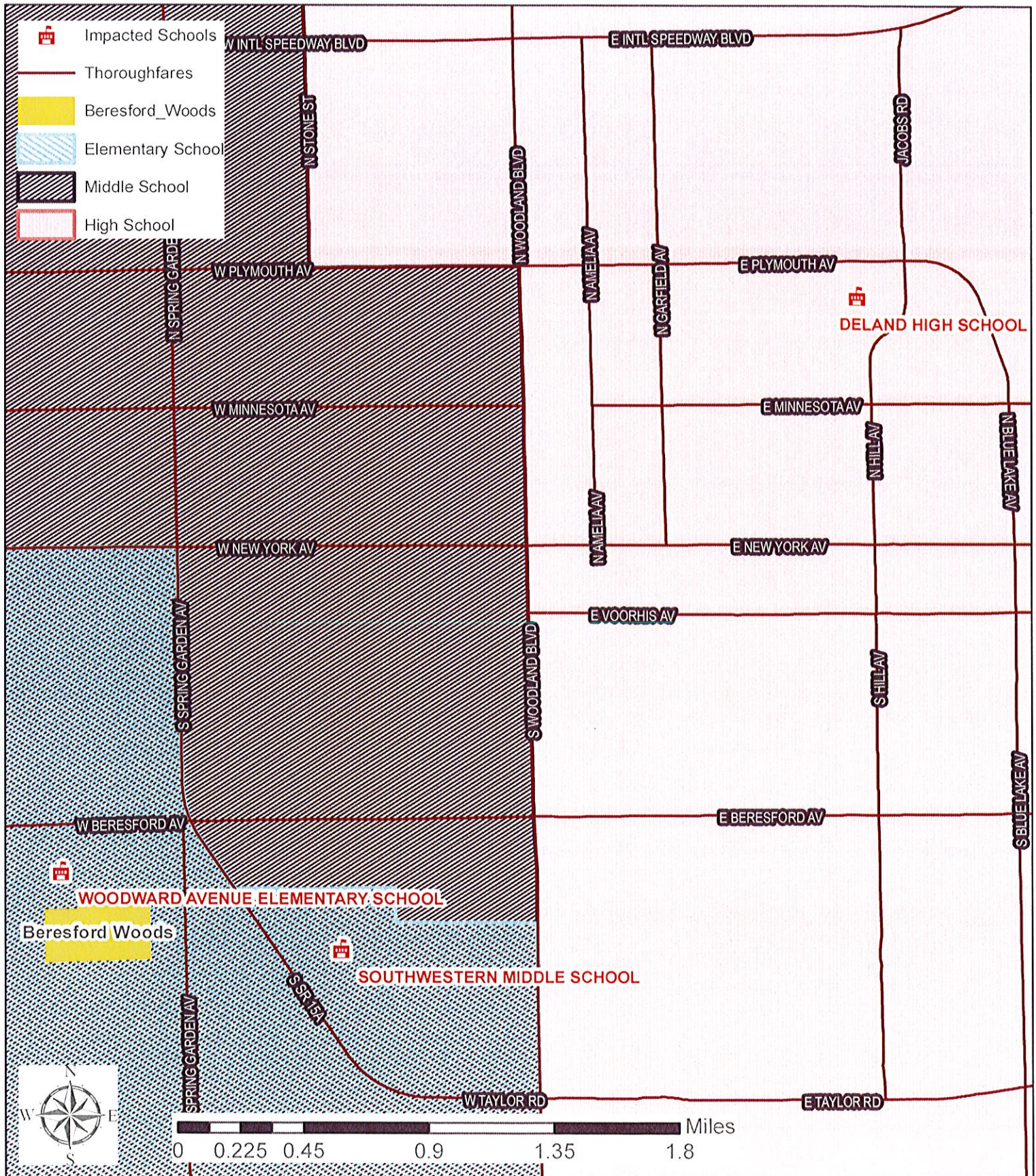
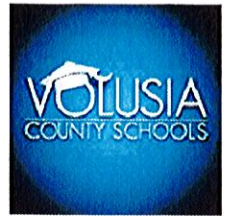
13April2020  
Issue Date



# VCSB Schools Impacted by Development

## School Concurrency Review - Beresford Woods

Created by Facilities Services  
April 2020





**CITY OF DELAND**  
**Request for Commission Action**  
**July 17, 2023**

**SUBJECT:** Resolution Approving Final Plat, Beresford Woods Phase 2 Subdivision.

**DEPARTMENT:** Planning

**PREPARED BY:** Carol Kuhn, Deputy Planning Director

**ATTACHMENTS:** Resolution, Beresford Woods Ph 2 PLAT, Beresford Woods Ph 2 MAP, School Concurrency Letter

**APPROVED BY:** Michael Pleus, City Manager, July 13, 2023

---

**SUMMARY/HIGHLIGHT:**

The applicant, Toni Boone of Dewberry Engineering, is seeking subdivision approval for 42 single-family residential lots on a 14.19-acre parcel, representing Phase 2 of the Beresford Woods Subdivision. This phase includes residential lots, stormwater, open space tracts, recreational and tree protection areas, and right-of-way. The Traffic Impact Analysis (TIA) was approved by Volusia County Traffic Engineering on January 4, 2021. School Concurrency was evaluated at the time of the preliminary plat (attached) (April 13, 2020). Staff reviewed the application for consistency with the approved preliminary plat (PSB20-033). At their December 15, 2022 meeting, the Technical Review Committee recommended forwarding this final plat to the City Commission pending all staff, legal, and surveyor comments being addressed. All the comments have been addressed as required.

**STRATEGIC PLAN FOCUS AREA/ACTION STEP:**

N/A

**SUSTAINABILITY:**

N/A

**FISCAL IMPACT:**

The subdivision has already been approved for construction and the recording of the final plat will allow for the individual lots and homes to be entered into the City's tax revenue.

**RECOMMENDATION:**

It is recommended that the City Commission approve the final plat for Beresford Woods Phase 2.

**BACKGROUND/DISCUSSION:**

At the January 20, 2021 meeting of the Planning Board, approval of the preliminary plat (PSB20-033) and forwarding the application to the City Commission was recommended. The applicant for the final plat, Toni Boone, Dewberry Engineering, seeks to develop the subject property as Phase 2 of the Beresford Woods residential subdivision. The overall development was approved for a total of 289 lots and this phase will contain 42 single-family lots.

**RESOLUTION NO. 2023 –**

**A RESOLUTION OF THE CITY COMMISSION OF DELAND, FLORIDA, APPROVING THE FINAL SUBDIVISION PLAT FOR BERESFORD WOODS PHASE 2, LOCATED SOUTH OF VOORHIS AVENUE AND EAST OF PINE STREET; AND PROVIDING FOR A CONDITION AND AN EFFECTIVE DATE.**

**WHEREAS**, the applicant, Toni Boone, has submitted a proper and complete application under Chapter 33, Article 13, of the City of DeLand Code of Ordinances (hereinafter the “Code”) for the final plat approval for Beresford Woods Phase 2, located south of Voorhis Avenue and east of Pine Street; and

**WHEREAS**, the applicant intends to develop the subject property as Phase 2, consisting of 42 single-family residential lots on approximately 14.19 +/- acres of land; and

**WHEREAS**, on December 15, 2022, the Technical Review Committee (TRC) recommended conditional approval of the final subdivision plat for Beresford Woods Phase 2, subject to addressing staff comments.

**NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF DELAND, FLORIDA:**

**Section 1.** The City Commission hereby approves the final subdivision plat for Beresford Woods Phase 2, located south of Voorhis Avenue and east of Pine Street on the condition that the applicant shall comply with any and all comments from the City Surveyor, City Engineer, and City Attorney.

**Section 2.** This Resolution shall become effective immediately upon its adoption.

**PASSED AND DULY ADOPTED** this 17<sup>th</sup> day of July, 2023.

\_\_\_\_\_  
Christopher M. Cloudman  
Mayor-Commissioner

**ATTEST:**

\_\_\_\_\_  
Julie A. Hennessy  
City Clerk – Auditor

**APPROVED AS TO FORM AND LEGALITY:**

\_\_\_\_\_  
Darren J. Elkind  
City Attorney

BERESFORD WOODS PHASE 2

LOCATED IN SECTION 20, TOWNSHIP 17 SOUTH, RANGE 30 EAST, CITY OF DELAND, VOLUSIA COUNTY, FLORIDA

PLAT NOTES:

1. BEARINGS SHOWN HEREON ARE REFERENCED TO FLORIDA STATE PLANE COORDINATES, EAST ZONE, NAD 1983/2011, U.S. SURVEY FEET, ESTABLISHED WITH SPECTRA PRECISION EPOCH 80 GNSS RTK GPS SYSTEM, TOGETHER WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION PERMANENT REFERENCE NETWORK (FPRN). DERIVING A BEARING OF 501°01'51"E ALONG THE EAST LINE OF SECTION 19-17-30.
2. UNLESS OTHERWISE INDICATED, A STRIP OF LAND 10.00 FEED WIDE TAT THE FRONT OF ALL LOTS AND TRACTS ADJACENT TO ROAD RIGHTS-OF-WAY AS DEPICTED HEREON, IS HEREBY RESERVED FOR PUBLIC UTILITIES, AND A PERPETUAL NON-EXCLUSIVE EASEMENT IS GRANTED TO ALL PUBLIC UTILITIES FOR THE INSTALLATION AND MAINTENANCE OF UTILITY INFRASTRUCTURE, INCLUDING BUT NOT LIMITED TO THE RIGHT OF ACCESS FOR SUCH PURPOSE.
3. ALL CURVILINEAR LINES ARE RADIAL TO CURVES UNLESS OTHERWISE NOTED AS NON-RADIAL (NR).
4. PURSUANT TO SECTION 177.091(28), FLORIDA STATUTES, ALL PLATTED UTILITY EASEMENTS SHALL ALSO BE EASEMENTS FOR THE CONSTRUCTION, INSTALLATION, MAINTENANCE, AND OPERATION OF CABLE TELEVISION SERVICES; PROVIDED, HOWEVER, NO SUCH CONSTRUCTION, INSTALLATION, MAINTENANCE, AND OPERATION OF CABLE TELEVISION SERVICES SHALL INTERFERE WITH THE FACILITIES AND SERVICES OF AN ELECTRIC, TELEPHONE, GAS, OR OTHER PUBLIC UTILITY. IN THE EVENT A CABLE TELEVISION COMPANY DAMAGES THE FACILITIES OF A PUBLIC UTILITY, IT SHALL BE SOLELY RESPONSIBLE FOR THE DAMAGES.
5. TRACT KK (STORMWATER MANAGEMENT AREA) IS TO BE OWNED AND MAINTAINED BY THE BERESFORD WOODS HOME OWNERS ASSOCIATION, INC.
6. TRACTS HH, II, AND JJ (OPEN SPACE/RECREATIONAL AREAS) ARE TO BE OWNED AND MAINTAINED BY THE BERESFORD WOODS HOME OWNERS ASSOCIATION, INC.
7. TRACTS FF, GG, AND LL (TREE PROTECTION AREA) ARE TO BE OWNED AND MAINTAINED BY THE BERESFORD WOODS HOME OWNERS ASSOCIATION, INC.
8. TRACT TT (OPEN SPACE/SIGNAGE) IS TO BE OWNED AND MAINTAINED BY THE BERESFORD WOODS HOME OWNERS ASSOCIATION, INC.
9. LOT CORNERS TO BE SET BEFORE THE TRANSFER OF A LOT PER CHAPTER 177.
10. THIS PLAT MAY BE SUBJECT TO MATTERS AS SHOWN IN PLAT PROPERTY INFORMATION REPORT PREPARED BY FIDELITY NATIONAL TITLE INSURANCE COMPANY, ORDER NUMBER 10749724, DATED MAY 1, 2023. ONLY MATTERS THAT AFFECT THIS PLAT ARE LISTED BELOW:  
NO MATTERS LISTED AFFECT

LEGAL DESCRIPTION:

A PORTION OF SECTION 20 TOWNSHIP 17 SOUTH, RANGE 30 EAST, VOLUSIA COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE NORTHEAST CORNER OF SECTION 19, TOWNSHIP 17 SOUTH, RANGE 30 EAST; THENCE RUN SOUTH 01°01'51" EAST ALONG THE EAST LINE OF SAID SECTION 19, A DISTANCE OF 1313.35 FEET TO THE NE CORNER OF THE SE 1/4 OF THE NE 1/4 OF SECTION 19; THENCE DEPARTING SAID EAST LINE, RUN NORTH 89°34'43" EAST, A DISTANCE OF 30.00 FEET TO THE EAST RIGHT OF WAY LINE OF SPRING GARDEN AVENUE AND THE POINT OF BEGINNING; THENCE RUN NORTH 89°34'43" EAST, A DISTANCE OF 875.15 FEET TO A POINT ON THE CURRENT WESTERLY RIGHT-OF-WAY LINE OF COUNTY ROAD NO. 15-A AS SHOWN IN FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) MAP SECTION NO. 79160-2509; THENCE RUN ALONG SAID WESTERLY RIGHT-OF-WAY LINE THE FOLLOWING EIGHT COURSES: THENCE SOUTH 34°03'47" EAST , A DISTANCE OF 60.06 FEET; THENCE SOUTH 89°34'43" WEST, A DISTANCE OF 129.05 FEET; THENCE SOUTH 00°18'35" EAST, A DISTANCE OF 453.00 FEET; THENCE NORTH 89°42'27" EAST, A DISTANCE OF 407.97 FEET; THENCE SOUTH 34°03'47"EAST, A DISTANCE OF 63.61 FEET; THENCE NORTH 55°56'13" EAST, A DISTANCE OF 15.00 FEET; THENCE SOUTH 34°03'47" EAST, A DISTANCE OF 92.34 FEET TO A POINT ON A NON-TANGENT CURVE CONCAVE TO THE NORTHWEST HAVING A RADIUS OF 22.00 FEET, A CENTRAL ANGLE OF 38°08'44", A CHORD BEARING OF SOUTH 53°43'41" WEST AND A CHORD DISTANCE OF 14.38 FEET; THENCE RUN SOUTHWESTERLY ALONG SAID CURVE AN ARC DISTANCE OF 14.65 FEET TO A POINT OF TANGENCY AND TO A POINT ON THE NORTH RIGHT-OF-WAY OF GAYLE DRIVE; THENCE RUN SOUTH 89°40'37" WEST ALONG SAID NORTH RIGHT-OF-WAY, A DISTANCE OF 1266.97 FEET TO A POINT ON THE EAST RIGHT-OF-WAY LINE OF SPRING GARDEN AVENUE; THENCE RUN NORTH 01°01'51" WEST ALONG SAID EAST RIGHT-OF-WAY, A DISTANCE OF 631.72 FEET TO POINT OF BEGINNING.

CONTAINING: ±556,024 SQUARE FEET OR ±12.76 ACRES MORE OR LESS

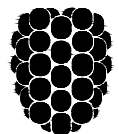
TOGETHER WITH:

COMMENCE AT THE NORTHEAST CORNER OF SAID SECTION 19; THENCE RUN SOUTH 01°01'51" EAST ALONG THE EAST LINE OF SAID SECTION 19, A DISTANCE OF 1313.35 FEET TO THE NE CORNER OF THE SE 1/4 OF THE NE 1/4 OF SECTION 19; THENCE DEPARTING SAID EAST LINE, RUN NORTH 89°34'43" EAST, A DISTANCE OF 30.00 FEET TO THE EAST RIGHT OF WAY LINE OF SPRING GARDEN AVENUE; THENCE RUN NORTH 89°34'43" EAST, A DISTANCE OF 875.15 FEET TO A POINT ON THE CURRENT WESTERLY RIGHT-OF-WAY LINE OF COUNTY ROAD NO. 15-A AS SHOWN IN FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) MAP SECTION NO. 79160-2509; THENCE RUN NORTH 89°34'43" EAST, A DISTANCE OF 144.14 FEET TO A POINT ON THE EAST RIGHT-OF-WAY LINE OF COUNTY ROAD NO. 15-A AND THE POINT OF BEGINNING; THENCE RUN NORTH 89°34'43" EAST, A DISTANCE OF 286.16 FEET; THENCE RUN SOUTH 00°58'39" EAST, A DISTANCE OF 436.41 FEET TO A POINT ON SAID EAST RIGHT-OF-WAY OF COUNTY ROAD NO. 15-A; THENCE RUN NORTH 34°03'47" WEST, A DISTANCE OF 524.19 FEET TO POINT OF BEGINNING;

CONTAINING: ±62,440 SQUARE FEET OR ±1.43 ACRES MORE OR LESS

LEGEND AND ABBREVIATIONS:

|           |                                    |        |                              |        |                                          |
|-----------|------------------------------------|--------|------------------------------|--------|------------------------------------------|
| CCR       | CERTIFIED CORNER RECORD            | PC     | POINT OF CURVATURE           | RP     | RADIUS POINT                             |
| CB        | CHORD BEARING                      | PCC    | POINT OF COMPOUND CURVATURE  | R/W    | RIGHT OF WAY                             |
| CCR       | CORNER                             | PCP    | PERMANENT CONTROL POINT      | P.R.W. | PUBLIC RIGHT OF WAY                      |
| CH        | CHORD DISTANCE                     | PG(S). | PAGE/PAGES                   | REC    | RECREATIONAL                             |
| C         | CENTER LINE                        | E.A.E. | ELECTRIC ACCESS EASEMENT     | SEC    | SECTION-TOWNSHIP-RANGE                   |
| CM        | CONCRETE MONUMENT                  | (OA)   | OVERALL                      | (TYP)  | TYPICAL                                  |
| D.E.      | DRAINAGE EASEMENT                  | (O.S.) | OPEN SPACE                   | U.E.   | UTILITY EASEMENT                         |
| D.U.&S.E. | DRAINAGE, UTILITY & SLOPE EASEMENT | TP-A   | TREE PROTECTION AREA         | U.C.   | UTILITY CORNER                           |
| FND       | FOUND                              | PI     | POINT OF INTERSECTION        | Δ      | CENTRAL ANGLE                            |
| ID        | IDENTIFICATION                     | POB    | POINT OF BEGINNING           | Δ      | BREAK LINE                               |
| IP        | IRON PIPE                          | PCC    | POINT OF COMMENCEMENT        | Δ      | SET 4"x4" CM (PRM LB 8110)               |
| LB        | ARC LENGTH                         | PRC    | POINT OF REVERSE CURVATURE   | Δ      | FOUND 4"x4" CM (PRM LB 1221)             |
| L.B.      | LICENSED BUSINESS                  | PRM    | PERMANENT REFERENCE MONUMENT | Δ      | SET N/D (PCP LB8011)                     |
| M.B.      | MAP BOOK                           | PSM    | PROFESSIONAL SURVEYOR MAPPER | Δ      | FOUND N/D (PCP LB 68)                    |
| N/D       | NAIL & DISK                        | PT     | POINT OF TANGENCY            | Δ      | SET 5/8" IRON ROD & CAP (LB8011)         |
| NO.       | NUMBER                             | PNT    | POINT OF NON-TANGENCY        | Δ      | LOT CORNER (5/8" IRON ROD & CAP (LB8011) |
| (NR)      | NON-RADIAL                         | R      | RADIUS                       | Δ      | SEE NOTE #10                             |
| ORB       | OFFICIAL RECORDS BOOK              |        |                              | Δ      |                                          |



**Dewberry**

110 WEST INDIANA AVENUE, SUITE 202  
DELAND, FLORIDA 32720  
PHONE: 386.785.0468 FAX: 386.785.0715  
WWW.DEWBERRY.COM

CERTIFICATE OF AUTHORIZATION NO. LB 8011

NOTICE

THIS PLAT, AS RECORDED IN ITS GRAPHIC FORM, IS THE OFFICIAL DEPICTION OF THE SUBDIVIDED LANDS DESCRIBED HEREIN AND WILL IN NO CIRCUMSTANCES BE SUPPLANTED IN AUTHORITY BY ANY OTHER GRAPHIC OR DIGITAL FORM OF THE PLAT. THERE MAY BE ADDITIONAL RESTRICTIONS THAT ARE NOT RECORDED ON THIS PLAT THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY.

MAP BOOK:

PAGE:

BERESFORD WOODS PHASE 2

DEDICATION

KNOW ALL MEN BY THESE PRESENTS, THAT HANOVER BERESFORD WOODS, LLC, A FLORIDA LIMITED LIABILITY COMPANY BEING THE OWNER IN FEE SIMPLE OF THE LAND DESCRIBED IN THIS PLAT ("PROPERTY") HEREBY DEDICATES SAID LANDS AND PLAT FOR THE USES AND PURPOSES THEREIN EXPRESSED AND HEREBY: (1) DEDICATES AND CONVEYS THE FEE SIMPLE TITLE TO TRACT KK (STORMWATER MANAGEMENT AREA), TRACTS HH, II AND JJ (OPEN SPACE/LANDSCAPE BUFFER AREA) AND TRACTS FF, GG, AND LL (TREE PROTECTION AREA) TO THE BERESFORD WOODS HOME OWNERS ASSOCIATION, INC.; AND (2) DEDICATES TRACTS EE, MM, AND NN (PUBLIC ROAD RIGHT OF WAY) TO THE PUBLIC.

IN WITNESS WHEREOF, THE OWNER HAS CAUSED THESE PRESENTS TO BE SIGNED AND ATTESTED TO BY THE OFFICER NAMED BELOW AND ITS CORPORATE SEAL TO BE AFFIXED HERETO ON \_\_\_\_\_, A.D. 2023.

HANOVER BERESFORD WOODS, LLC, A FLORIDA LIMITED LIABILITY COMPANY BY: HANOVER LAND COMPANY, LLC, A FLORIDA LIMITED LIABILITY COMPANY ITS MANAGER; HANOVER CAPITAL ADVISORS, LLC, ITS MANAGER; BY HANOVER CAPITAL PARTNERS, LLC, ITS MANAGING MEMBER

BY: \_\_\_\_\_  
WILLIAM S. OROSZ JR, PRESIDENT

SIGNED, SEALED AND DELIVERED IN THE PRESENCE OF:

WITNESS: \_\_\_\_\_  
SIGNATURE PRINTED NAME  
WITNESS: \_\_\_\_\_  
SIGNATURE PRINTED NAME

STATE OF FLORIDA, COUNTY OF VOLUSIA

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2023, BY WILLIAM S. OROSZ JR, AS PRESIDENT FOR HANOVER BERESFORD WOODS, LLC ON BEHALF OF THE COMPANY. SAID PERSON ACKNOWLEDGED BEFORE ME BY MEANS OF [\_\_\_\_\_] PHYSICAL PRESENCE OR [\_\_\_\_\_] ONLINE NOTARIZATION AND [ ] IS PERSONALLY KNOWN TO ME OR [\_\_\_\_\_] HAS PRODUCED \_\_\_\_\_ AS IDENTIFICATION.

SIGNATURE OF NOTARY PUBLIC \_\_\_\_\_  
PRINTED, TYPED OR STAMPED  
NOTARY NAME  
NOTARY SEAL

NOTARY PUBLIC, STATE OF \_\_\_\_\_

COMMISSION NO.: \_\_\_\_\_ EXPIRATION: \_\_\_\_\_

CERTIFICATE OF APPROVAL OF THE DESIGN AND INSTALLATION OF STREETS, UTILITIES AND OTHER REQUIRED IMPROVEMENTS

I HEREBY CERTIFY THAT ALL STREETS, UTILITIES AND OTHER REQUIRED IMPROVEMENTS HAVE BEEN INSTALLED IN AN ACCEPTABLE MANNER AND ACCORDING TO CITY SPECIFICATIONS AND STANDARDS AND ALL APPLICABLE REGULATIONS IN THE BERESFORD WOODS PHASE 2 SUBDIVISION, OR THAT A GUARANTEE OF THE INSTALLATION OF THE REQUIRED IMPROVEMENTS IN A MANNER ACCORDING TO SECTION 33-147 OF THE CITY CODE HAS BEEN RECEIVED.

CITY ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

QUALIFICATION STATEMENT OF SURVEYOR AND MAPPER

KNOW ALL MEN BY THESE PRESENTS, THAT THE UNDERSIGNED IS A FLORIDA REGISTERED SURVEYOR AND MAPPER, THAT THE FOREGOING PLAT WAS PREPARED UNDER HIS DIRECTION AND SUPERVISION; THAT PERMANENT REFERENCE MONUMENTS HAVE BEEN PLACED AND THAT PERMANENT CONTROL POINTS HAVE BEEN OR WILL BE PLACED AS REQUIRED BY ALL STATE AND LOCAL REGULATIONS; AND THAT THIS PLAT COMPLIES WITH ALL SURVEY REQUIREMENTS OF CHAPTER 177, PART 1, FLORIDA STATUTES. THE LAND DESCRIBED HEREON LIES IN SECTION 20, TOWNSHIP 17 SOUTH, RANGE 30 EAST, CITY OF DELAND, VOLUSIA COUNTY, FLORIDA.

(SIGNATURE) \_\_\_\_\_ DATE: \_\_\_\_\_

WILLIAM P. HINKLE  
PROFESSIONAL SURVEYOR AND MAPPER NO. 4633  
DEWBERRY ENGINEERS INC.  
110 WEST INDIANA AVENUE, SUITE 202  
DELAND, FLORIDA 32720  
CERTIFICATE OF AUTHORIZATION NO. LB 8011

CERTIFICATE OF APPROVAL

I HEREBY CERTIFY THAT THIS PLAT HAS BEEN REVIEWED FOR THE CONFORMITY TO THE REQUIREMENTS OF CHAPTER 177, PART 1 OF FLORIDA STATUTES. NO CONFIRMATION OF MATHEMATICAL CLOSURE OR THE PLACEMENT OF PRM'S AND PCP'S IN THE FIELD WAS MADE IN THIS REVIEW.

CPH, LLC LB#7143  
500 WEST PULFORD STREET  
SANFORD, FL 32777

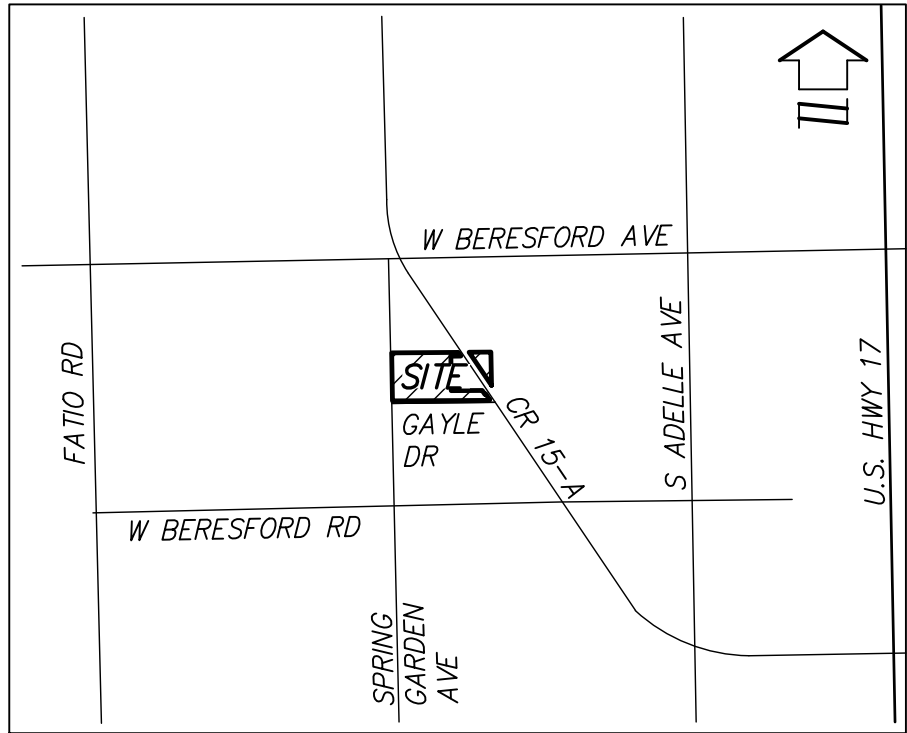
FOR THE FIRM BY: \_\_\_\_\_  
RANDALL L. ROBERTS, R.L.S. DATE: \_\_\_\_\_  
FLORIDA REGISTRATION NUMBER 3144  
STATE OF FLORIDA

CERTIFICATE OF CLERK

I HEREBY CERTIFY, THAT I HAVE EXAMINED THE FOREGOING PLAT AND FIND THAT IT COMPLIES IN FORM WITH ALL THE REQUIREMENTS OF CHAPTER 177, FLORIDA STATUTES, AND WAS FILED FOR RECORD ON \_\_\_\_\_, 2023

AT \_\_\_\_\_, FILE NO. \_\_\_\_\_

BY: \_\_\_\_\_  
CLERK OF THE CIRCUIT COURT IN AND  
FOR VOLUSIA COUNTY, FLORIDA



VICINITY MAP  
(NOT TO SCALE)

SHEET INDEX

SHEET 1: COVER SHEET/LEGEND  
SHEET 2: KEY SHEET  
SHEETS 3 - 4 : DETAIL SHEETS

JOINDER & CONSENT TO DEDICATION

THE UNDERSIGNED HEREBY CERTIFIES THAT IT IS THE HOLDER OF THAT CERTAIN MORTGAGE AND SECURITY AGREEMENT FROM HANOVER BERESFORD WOODS, LLC, A FLORIDA LIMITED LIABILITY COMPANY, IN FAVOR OF REGIONS BANK, AN ALABAMA BANKING CORPORATION, DATED MAY 19, 2021 AND RECORDED JUNE 04, 2021 IN OFFICIAL RECORDS BOOK 8059, PAGE 3060, TOGETHER WITH ASSIGNMENT OF LEASES, RENTS AND PROFITS RECORDED IN OFFICIAL RECORDS BOOK 8059, PAGE 3084, ALONG WITH RELATED UCC-1 FINANCING STATEMENT FROM HANOVER BERESFORD WOODS, LLC, A FLORIDA LIMITED LIABILITY COMPANY, RECORDED IN OFFICIAL RECORDS BOOK 8059, PAGE 3090, ALL OF THE PUBLIC RECORDS OF VOLUSIA COUNTY, FLORIDA, AND CONSENTS TO THE DEDICATION OF THE LANDS DESCRIBED IN THIS PLAT AND AGREES THAT ITS FOREGOING DESCRIBED LIENS SHALL BE SUBORDINATED TO SAID DEDICATION.

REGIONS BANK, AN ALABAMA BANKING CORPORATION

BY: \_\_\_\_\_  
PRINTED NAME (TITLE)

SIGNED, SEALED AND DELIVERED IN THE PRESENCE OF:

WITNESS: \_\_\_\_\_  
SIGNATURE PRINTED NAME

WITNESS: \_\_\_\_\_  
SIGNATURE PRINTED NAME

STATE OF FLORIDA, COUNTY OF \_\_\_\_\_

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS

\_\_\_\_\_ DAY OF \_\_\_\_\_, 2023 BY \_\_\_\_\_  
, ON BEHALF OF SAID BANK. HE/SHE IS PERSONALLY KNOWN TO ME OR WHO HAS PRODUCED \_\_\_\_\_ AS IDENTIFICATION.

SIGNATURE OF NOTARY PUBLIC \_\_\_\_\_ AFFIX NOTARY  
STAMP OR SEAL

PRINTED, TYPED OR STAMPED NOTARY NAME

NOTARY PUBLIC, STATE OF \_\_\_\_\_

COMMISSION NO.: \_\_\_\_\_

MY COMMISSION EXPIRES: \_\_\_\_\_

CERTIFICATE OF APPROVAL BY THE CITY COMMISSION

THE DELAND CITY COMMISSION DOES HEREBY APPROVE THE FINAL PLAT OF:

BERESFORD WOODS PHASE 2

CHRISTOPHER M. CLOUDMAN, MAYOR- CITY OF DELAND DATE \_\_\_\_\_



BERESFORD WOODS PHASE 2

LOCATED IN SECTION 20, TOWNSHIP 17 SOUTH, RANGE 30 EAST,  
CITY OF DELAND, VOLUSIA COUNTY, FLORIDA

SHEET INDEX

SHEET 1: COVER SHEET/LEGEND  
SHEET 2: KEY SHEET/PLAT BOUNDARY  
SHEETS 3 - 4 : DETAIL SHEETS

MAP BOOK:

PAGE:

POINT OF COMMENCEMENT  
NE CORNER OF SECTION 19-17-30  
FOUND NAIL & DISC (R/LS 2299)  
CCR# 076810

EAST LINE OF SECTION 19-17-30

SPRING GARDEN AVENUE  
(30.00' PLATTED R/W)  
BEARING OF SPRING GARDEN AVENUE  
S 13° 35' 13" E

NE CORNER OF SE 1/4 OF THE NE 1/4 SECTION 19-17S-30E  
FOUND NAIL & DISC (LB 1221)  
FOUND 1-1/2" PIPE (NO I.D.)  
9.16'S., 26.51'W.

POINT OF BEGINNING  
CORNER NOT SET FALL IN TREE  
4"x4" CMS (PRM WITNESS LB8011)  
S 3.0°, E 3.0°

N. LINE OF THE N. 1/2 OF THE  
N. 1/2 OF THE SW 1/4 OF THE NW  
1/4 OF SECTION 20-17-30

POINT OF BEGINNING  
(TOGETHER WITH)  
FOUND 5/8" ROD & CAP (FDOT)  
REPLACED WITH 4"x4"  
CM PRM LB 8011  
FOUND 5/8" ROD & CAP (FDOT)  
11.93'W.

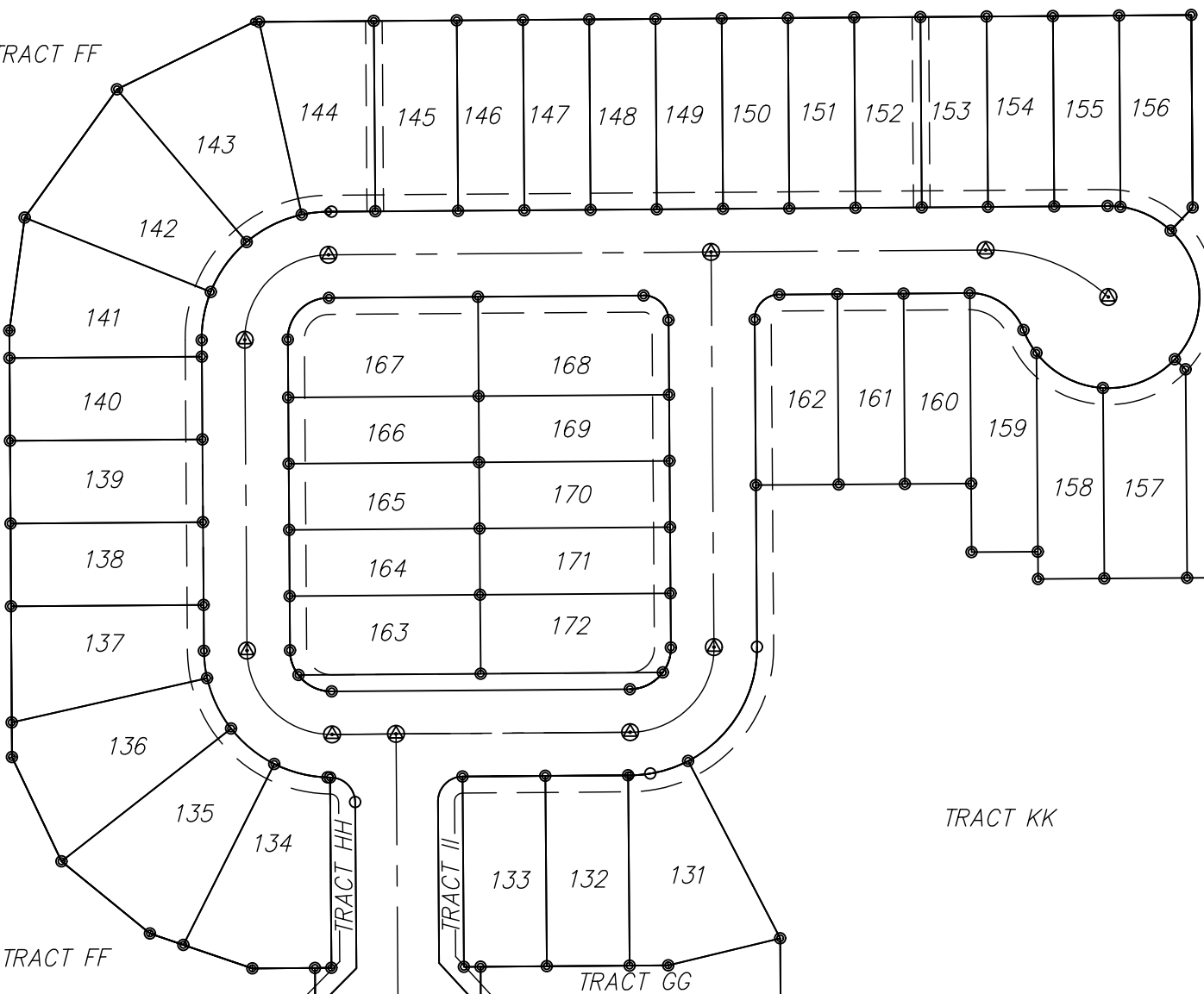
0 50 100 200  
1 INCH = 100 FEET

BERESFORD WOODS PHASE 1  
(M.B. PG. )

SPRING GARDEN AVENUE  
(30.00' PLATTED R/W)

EAST LINE OF SECTION 19-17-30

N 01° 01' 51" W 631.72'



COUNTY ROAD NO. 15-A  
N 34° 03' 47" W 524.19'

CINCINNATI AVENUE (20.00' PLATTED R/W)

CORNER NOT SET  
FALL IN TREE  
4"x4" CMS (PRM  
WITNESS LB8011)  
N 15.0°, NW 15.0°

Δ=38°08'44"  
L=14.65'  
R=22.00'  
CB=S53°43'41"W  
CH=14.38'

SE CORNER OF  
SECTION 19-17-30  
FOUND RAIL ROAD  
SPIKE (NO I.D.)  
CCR# 0049136

N 01° 11' 14" W  
2682.28'

CECIL AVENUE  
(50.00' PLATTED R/W)

WRIGHT DRIVE  
(50.00' PLATTED R/W)

FRANKLIN HEIGHTS 1st ADDITION  
MB 25, PG 28

KEITH AVENUE

UNPLATTED

UNPLATTED

UNPLATTED

S. 1/4 CORNER OF  
SECTION 20-17-30  
FOUND BRIDGE SPIKE (NO I.D.)

E. 1/4 CORNER OF SECTION 20-17-30  
FOUND RAIL ROAD SPIKE (NO I.D.)

NOTICE

THIS PLAT, AS RECORDED IN ITS GRAPHIC FORM, IS THE OFFICIAL  
DEPICTION OF THE SUBDIVIDED LANDS DESCRIBED HEREIN AND WILL IN  
NO CIRCUMSTANCES BE SUPPLANTED IN AUTHORITY BY ANY OTHER  
GRAPHIC OR DIGITAL FORM OF THE PLAT. THERE MAY BE ADDITIONAL  
RESTRICTIONS THAT ARE NOT RECORDED ON THIS PLAT THAT MAY BE  
FOUND IN THE PUBLIC RECORDS OF THIS COUNTY.



**Dewberry**

110 WEST INDIANA AVENUE, SUITE 202  
DELAND, FLORIDA 32720  
PHONE: 386.785.0468 FAX: 386.785.0715  
WWW.DEWBERRY.COM  
CERTIFICATE OF AUTHORIZATION NO. LB 8011





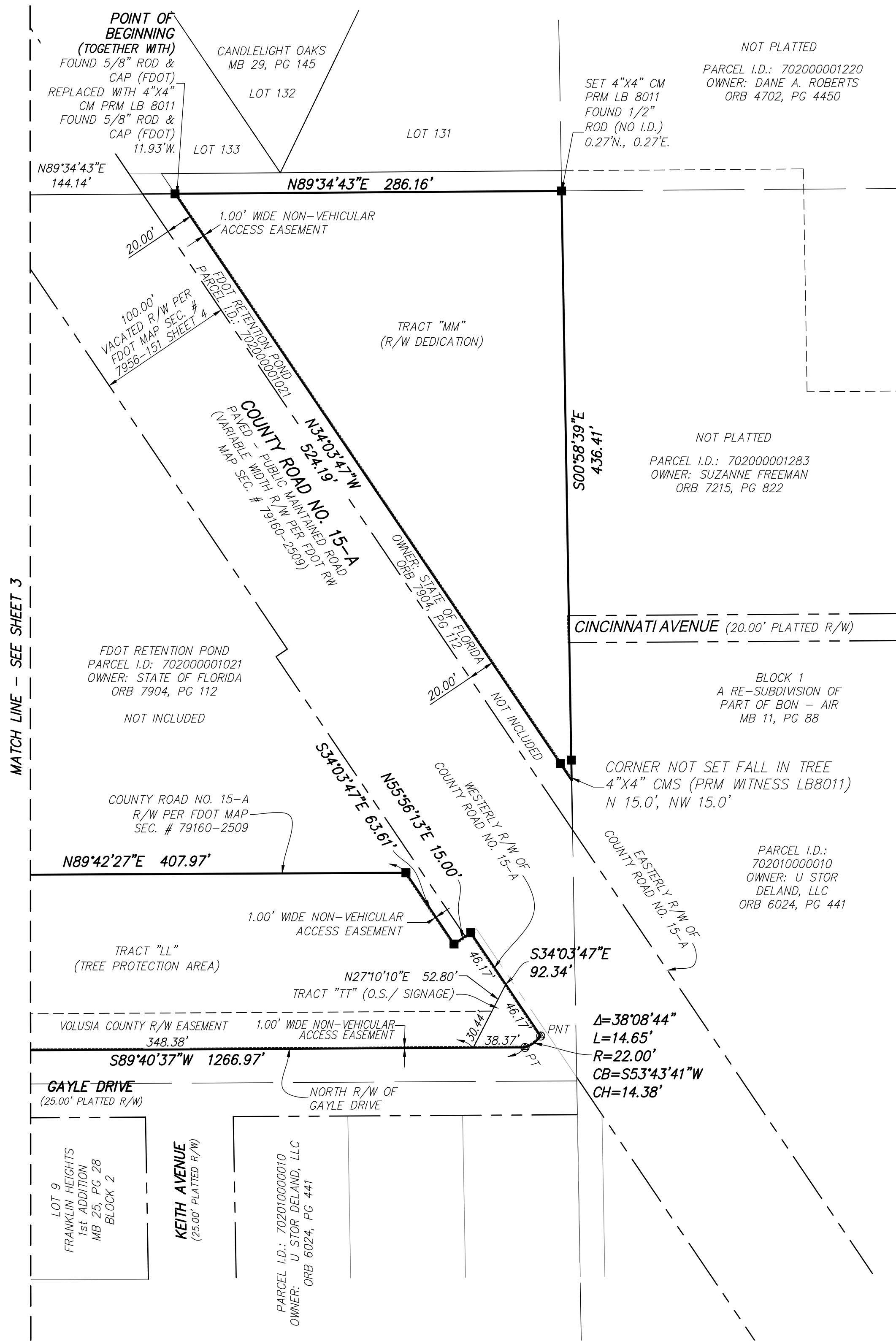
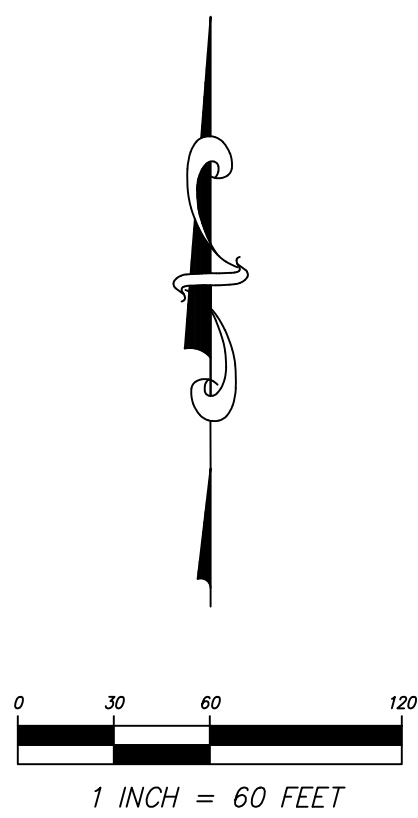


BERESFORD WOODS PHASE 2

LOCATED IN SECTION 20, TOWNSHIP 17 SOUTH, RANGE 30 EAST, CITY OF DELAND, VOLUSIA COUNTY, FLORIDA

MAP BOOK:

PAGE:



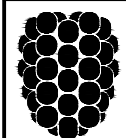
NOTICE

THIS PLAT, AS RECORDED IN ITS GRAPHIC FORM, IS THE OFFICIAL DEPICTION OF THE SUBDIVIDED LANDS DESCRIBED HEREIN AND WILL IN NO CIRCUMSTANCES BE SUPPLANTED IN AUTHORITY BY ANY OTHER GRAPHIC OR DIGITAL FORM OF THE PLAT. THERE MAY BE ADDITIONAL RESTRICTIONS THAT ARE NOT RECORDED ON THIS PLAT THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY.

SHEET INDEX

SHEET 1: COVER SHEET/LEGEND  
SHEET 2: KEY SHEET/PLAT BOUNDARY  
SHEETS 3 - 4 : DETAIL SHEETS

SHEET 4 OF 4



**Dewberry**

110 WEST INDIANA AVENUE, SUITE 202  
DELAND, FLORIDA 32720  
PHONE: 386.765.0469 FAX: 386.765.0715  
WWW.DEWBERRY.COM

CERTIFICATE OF AUTHORIZATION NO. LB 8011









Dr. Scott Fritz  
Superintendent of Schools

School Board of Volusia County

Mrs. Ida D. Wright, Chairman  
Mrs. Linda Cuthbert, Vice-Chairman  
Mr. Carl Persis  
Mr. Ruben Colón  
Ms. Jamie M. Haynes

April 13, 2020

Madden, Moorhead, and Stokes, LLC  
Nicole Martin  
431 E. Horatio Ave. Suite 260  
Maitland, FL 32751

RE: Beresford Woods – City of DeLand  
School Capacity Review #20-03-31-001-R

### School Concurrency Determination Concurrency Letter

Dear Ms. Martin,

The District has reviewed the updated information for the residential project known as Beresford Woods, associated with 88.85+/- acres of property. The property is located westside of SR 15A south of W. Beresford Ave and north of W. Beresford Road, located within the city limits of DeLand. Information provided within the school concurrency application indicates the development activity will consist of two hundred eighty-nine (289) single family units.

The district uses a county wide Student Generation Rate (SGR) of (0.273) per single family and (0.127) per multi-family dwelling unit to calculate projected students<sup>1</sup>. By applying the SGRs to the unit types in Table 1 below, we find the project could generate seventy-nine (79) full time students.

Table 1

| UNIT TYPE                               | SGR          | UNIT COUNT | STUDENTS GENERATED |
|-----------------------------------------|--------------|------------|--------------------|
| Single Family Dwelling Unit             | .273         | 289        | 78.90              |
| Multi Family Dwelling Unit              | .127         | 0          | 0                  |
| Mobile/ Manufactured Home Dwelling Unit | .047         | 0          | 0                  |
|                                         | <b>Total</b> |            | <b>79</b>          |

The schools impacted by this development are Woodward Elementary, Southwestern Middle School, and DeLand High School.

<sup>1</sup> Most recent student generation rates are found in the School Impact Fee Update dated February 19, 2019. Study performed by Tindale Oliver.

FACILITIES SERVICES  
3750 OLSON DRIVE, DAYTONA BEACH, FLORIDA 32124  
PHONE: 386/734-7190 □ FAX: 386/506-5056

An Equal Opportunity Employer



Beresford Woods – City of DeLand  
April 13, 2020

The Concurrency Analysis (Table 2) adjusts for impacts to the Concurrency Service Areas (CSAs) by accounting for current school year enrollments, existing reservations at the impacted schools, and the projected students generated by the applicant. These factors give an associated utilization or Level of Service (LOS) percentage for each CSA.

### Concurrency Analysis

Table 2

| Schools                    | Adopted LOS | SY 19/20 Enrollment | Active Reservations | Existing LOS w/ Res | Students Generated by Request | Result LOS |
|----------------------------|-------------|---------------------|---------------------|---------------------|-------------------------------|------------|
| Woodward Elementary        | 115%        | 631                 | 0                   | 100%                | 31                            | 105%       |
| Southwestern Middle School | 115%        | 799                 | 4                   | 91%                 | 16                            | 93%        |
| West CSA (DeLand HS)       | 120%        | 5433                | 328                 | 104%                | 26                            | 104%       |
| Other                      |             |                     |                     |                     | 6                             |            |

The adopted LOS standard at elementary and middle school is (115%) of permanent student stations, and (120%) for high school CSAs. This projected increase in students will not exceed the adopted LOS at the any school level; therefore, the school district does not have an objection to the proposed site plan. Minimum planning considerations should include pedestrian and vehicular access, safety, connectivity, and buffering.

Please note that the School Board has the right to adjust the attendance boundaries to balance the student enrollment populations at these area schools. Therefore, students generated from this project may not attend the current assigned schools.

If you should have additional questions or require more information, please feel free to contact me at extension 50806.

Sincerely,



Saralee L. Morrissey, FAICP  
Director, Planning and Construction

Cc: Dr. Scott Fritz, Superintendent of Schools  
Mike Holmes, City of DeLand Planning Director  
Kiersta Hill, VCSB Planning Services  
Project File

FACILITIES SERVICES  
3750 OLSON DRIVE, DAYTONA BEACH, FLORIDA 32124  
PHONE: 386/734-7190 □ FAX: 386/506-5056

An Equal Opportunity Employer





## ***Certificate of School Concurrency***

**Volusia County School Board**

| <b>Project Information</b>        |                                                                            |
|-----------------------------------|----------------------------------------------------------------------------|
| <b>Project Name</b>               | Beresford Woods                                                            |
| <b>VCSB Project #</b>             | <b>20-03-31-001-R</b>                                                      |
| <b>Jurisdiction Project#</b>      |                                                                            |
| <b>Parcel ID Numbers:</b>         | 7019-00-00-0090; 7019-00-00-0100; 7020-00-00-1020                          |
| <b>Project Location:</b>          | Westside of SR 15A S. South of Beresford Ave and North of W. Beresford Rd. |
| <b># of residential units:</b>    | 289                                                                        |
| <b>Residential Unit Type:</b>     | Single Family                                                              |
| <b>Property Owner/ Purchaser:</b> | ZDA Land Investments LLC – Allan Goldberg                                  |
| <b>Applicant/Agent Name:</b>      | Madden Moorhead & Stokes LLC- Nicole Martin                                |

This School Concurrency Certificate shall reserve student stations for the above referenced project and shall confirm that said project meets the School Concurrency requirements of the adopted Interlocal Agreement for Public School Facility Planning.

| <b>School Concurrency Analysis</b>                                                                                                    |                   |               |             |              |                                        |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------|-------------|--------------|----------------------------------------|
| <b>School Levels:</b>                                                                                                                 | <b>Elementary</b> | <b>Middle</b> | <b>High</b> | <b>Other</b> | <b>Total Student Stations Reserved</b> |
| <b>Students Generated</b>                                                                                                             | <b>31</b>         | <b>16</b>     | <b>26</b>   | <b>6</b>     | <b>79</b>                              |
| <b>Comments:</b><br>This certificate is required to be included with the building permit submittal(s) as proof of school concurrency. |                   |               |             |              |                                        |

**This concurrency reservation shall expire two (2) years from the date of issuance of this certificate.**

\_\_\_\_\_  
Saralee L. Morrissey, FAICP  
Director, Planning and Construction

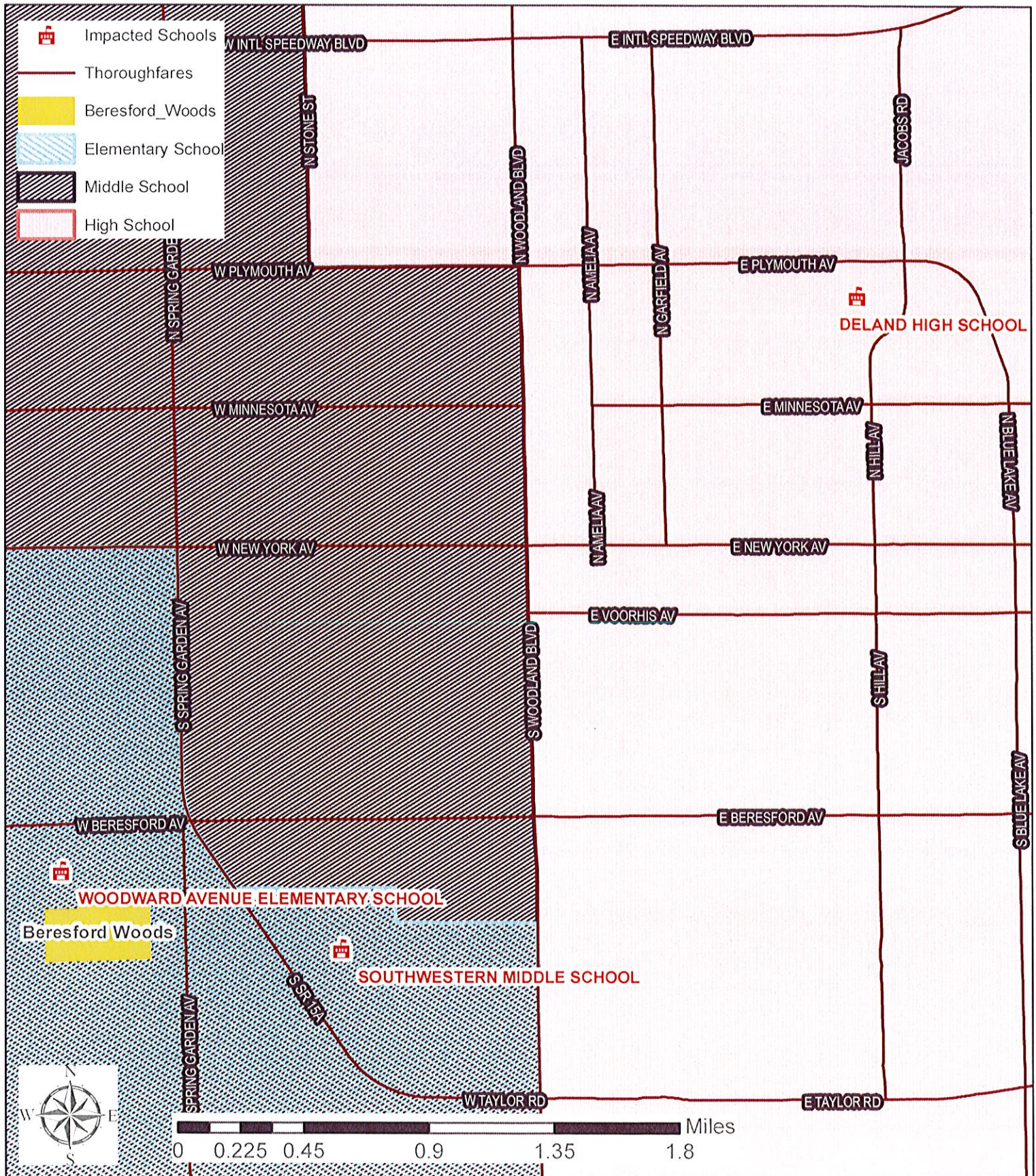
13April2020  
Issue Date



# VCSB Schools Impacted by Development

## School Concurrency Review - Beresford Woods

Created by Facilities Services  
April 2020





**CITY OF DELAND**  
**Request for Commission Action**  
**July 17, 2023**

**SUBJECT:** Resolution Approving Class IV Site Plan, Meadowlea Village Phases 4-5.

**DEPARTMENT:** Planning

**PREPARED BY:** Carol Kuhn, Deputy Planning Director

**ATTACHMENTS:** Resolution, SP22-211 - Plans - Meadowlea Village, Memo - Meadowlea Village Update Memo, Staff Report - Meadowlea Village

**APPROVED BY:** Michael Pleus, City Manager, July 13, 2023

---

**SUMMARY/HIGHLIGHT:**

The applicant is requesting approval of a Class IV Site plan for the expansion of an existing mobile home park located generally north of the municipal airport. The site is located in the northern city limits north of the DeLand Municipal Airport and the property currently contains the existing Meadowlea Village, Phases 1-3. The applicant is proposing an additional 103 mobile home spaces. The additional units will bring the total number of lots to 360. The development is an age restricted, 55 and up, development and the proposed lots will be age restricted as well.

Two phases (4 & 5) are proposed with this site plan. These two phases are to be developed south of the existing residential development (phases 1-3). Two additional future phases (6-7 not included with this site plan) are anticipated to be built at some point in the future and will contain 8 and 9 lots respectively. Phases 1-3 were developed under Volusia County regulations and the mobile home park was annexed into the City of DeLand on November 2, 2020.

On April 19, 2023, the Planning Board voted to continue the Meadowlea Village Phase 4 & 5 site plan to allow the applicant additional time to explore the feasibility of a secondary access point. On June 21, 2023, the site plan was again reviewed by the Planning Board. The information, including a Traffic Impact Analysis (TIA), a summary regarding the feasibility of adding an additional access point, and an alternative solution regarding secondary access has been provided. The applicant concluded (correspondence attached) that adding an additional access point at the southern end of the development would present a financial burden. Because Charles P. Bailey Road is not expected to be paved in the near future, a full-movement access point is not feasible. The Planning Board approved the site plan with a second paved entrance onto Carter Road at the northwest corner of the development, which satisfies the code requirement regarding secondary access (33 90.05(g)4). The applicant will also provide additional emergency access at the southwest corner of the site (at Charles P. Bailey Road). This access will be initially used as a construction access point to avoid heavy equipment traversing through the existing mobile home park and will be stabilized for emergency vehicle access following construction activities.

**STRATEGIC PLAN FOCUS AREA/ACTION STEP:**

As outlined in the city's strategic plan under Strategic Focus Area: Preparing for the future: Strategies – Increase opportunities for affordable housing.

**SUSTAINABILITY:**



The approval of the site plan will permit the expansion of an existing mobile home park by permitting these phases to be developed and occupied.

**FISCAL IMPACT:**

The approval of the site plan for this property will have a fiscal impact once residences are constructed on the lots and income is generated that will fund city services.

**RECOMMENDATION:**

It is recommended that the City Commission approve the Class IV site plan application for this property.

**BACKGROUND/DISCUSSION:**

The site is located in the northern city limits north of the DeLand Municipal Airport and the property currently contains the existing Meadowlea Village, Phases 1-3. The applicant requests an expansion of the existing mobile home park to develop 103 additional mobile home spaces. The additional units will bring the total number of lots to 360. The development is an age restricted, 55+, development and the proposed lots will be age restricted as well.

**RESOLUTION NO. 2023 -**

**A RESOLUTION OF THE CITY COMMISSION OF DELAND, FLORIDA, APPROVING A CLASS IV SITE PLAN FOR MEADOWLEA VILLAGE, PHASES 4 AND 5, LOCATED EAST OF STATE ROAD 11, NORTH OF THE DELAND MUNICIPAL AIRPORT; AND PROVIDING FOR AN EFFECTIVE DATE.**

**WHEREAS**, the applicant, Michael W. Radcliffe of Radcliffe Engineering, has submitted a proper and complete application under Chapter 33, Article 12 of the City of DeLand Code of Ordinances for the approval of a Class IV Site Plan for Meadowlea Village, Phases 4 and 5, located east of State Road 11, North of the DeLand Municipal Airport; and

**WHEREAS**, the applicant is requesting an expansion of the existing mobile home park to develop 103 additional mobile home spaces; bringing the total number of lots to 360; and

**WHEREAS**, on June 21, 2023, the Planning Board recommended approval of the Class IV Site Plan for Meadowlea Village, Phases 4 and 5.

**NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF DELAND, FLORIDA:**

**Section 1.** The City Commission hereby approves the Class IV Site Plan for Meadowlea Village, Phases 4 and 5, located at east of State Road 11, north of the DeLand Municipal Airport.

**Section 2.** This Resolution shall become effective immediately upon its adoption.

**PASSED AND DULY ADOPTED** this 17<sup>th</sup> day of July, 2023.

---

Christopher M. Cloudman  
Mayor-Commissioner

**ATTEST:**

---

Julie A. Hennessy  
City Clerk – Auditor

**APPROVED AS TO FORM AND LEGALITY:**

---

Darren J. Elkind  
City Attorney



General Notes:

- THIS PROPERTY WAS ANNEXED INTO THE CIT OF DELAND ON 11/2/20
- LAND USE = CMD (CITY MEDIUM DENSITY) ADOPTED ON 11/2/20 PER CITY OF DELAND PER LU20-088 TAX PARCEL #6027-00-00-0110
- ZONING = R-M (RESIDENTIAL MOBILE HOME) ADOPTED ON 11/2/20 PER CITY OF DELAND PER Z20-089 TAX PARCEL #6027-00-00-0110
- TOTAL PROPOSED PHASE 4 AREA = 11.10 ACRES
- TOTAL PROPOSED PHASE 5 AREA = 11.20 ACRES
- SURVEY INFORMATION PROVIDED BY ESP ASSOCIATES FL, INC. (SEE SEPARATE SURVEY SUPPLIED ALONG WITH THIS PLAN.) DATE OF SURVEY: MARCH 7, 2022.
- UNLESS OTHERWISE SHOWN, UNDERGROUND IMPROVEMENTS NOT LOCATED. PUBLIC RECORDS NOT SEARCHED BY ESP ASSOCIATES FL, INC. ADDITIONS OR DELETIONS TO SURVEY MAPS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
- SUBJECT TO EASEMENTS, RIGHTS OF WAY, RESTRICTIONS, AND RESERVATIONS OF RECORD, ALL CONSTRUCTION COVERED BY THESE PLANS SHALL COMPLY WITH THE MATERIAL REQUIREMENTS AND QUALITY CONTROL STANDARDS CONTAINED IN THE CITY OF DELAND LAND DEVELOPMENT CODE. ALL CONSTRUCTION PERFORMED IN CITY OF DELAND RIGHT-OF-WAY REQUIRES A RIGHT-OF-WAY PERMIT. ALL CONSTRUCTION IN FDOT RIGHT-OF-WAY REQUIRES A PERMIT FROM FDOT.
- ORIENTATION FOR THE IMPROVEMENTS SHOWN HEREON SHOULD NOT BE USED TO RECONSTRUCT BOUNDARY LINES, ADDITIONS OR DELETIONS TO SURVEY MAPS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
- REPRODUCTIONS OF THIS SKETCH ARE NOT VALID UNLESS SEALED WITH AN EMBOSSED ENGINEER'S SEAL.
- SITE IS NOT LOCATED IN A HISTORIC PRESERVATION DISTRICT.
- PROPERTY IS ZONED R-M; WITH MAX DENSITY OF 6 DWELLINGS PER ACRE  
OVERALL PROJECT DENSITY = 377/87.53 AC = 4.31 UNITS/ACRE
- IMPROVEMENTS WILL BE CONSTRUCTED IN PHASES.
- BUILDING SETBACKS = FRONT - 10 FEET  
REAR - 7.5 FEET  
SIDE - 7.5 FEET (15 FEET BETWEEN UNITS)
- TOTAL ACREAGE PER PHASE AS FOLLOWS:  
PHASE 1 = 1,682,152 SF (38.62 AC)  
PHASE 2 = 166,445 SF (3.82 AC)  
PHASE 3 = 911,014 SF (20.91 AC)  
PHASE 4 = 483,516 SF (11.10 AC)  
PHASE 5 = 487,872 SF (11.20 AC)  
PHASE 6 = 38,352 SF (0.88 AC)  
PHASE 7 = 43,198 SF (0.99 AC)  
TOTAL = 3,812,910 SF (87.53 AC)
- TOTAL SPACES AS FOLLOWS:  
PHASE 1 = 167 LOTS  
PHASE 2 = 17 LOTS  
PHASE 3 = 73 LOTS  
PHASE 4 = 45 LOTS  
PHASE 5 = 57 LOTS  
PHASE 6 = 8 LOTS  
PHASE 7 = 9 LOTS  
TOTAL = 376 LOTS
- TOTAL PHASE 4 DENSITY =  $\frac{45 \text{ units}}{11.10 \text{ developed acres}} = 4.05 \text{ UNITS/ACRE}$   
% BUILDING COVERAGE =  $\frac{2.83 \text{ AC}}{11.10 \text{ AC}} \times 100 = 25.50 \%$
- TOTAL PHASE 5 DENSITY =  $\frac{57 \text{ units}}{11.20 \text{ developed acres}} = 5.14 \text{ UNITS/ACRE}$   
BUILDING COVERAGE =  $\frac{3.58 \text{ AC}}{11.20 \text{ AC}} \times 100 = 31.96 \%$
- NOTE : TOTAL PROPOSED DENSITY (PH 4, 5) = 4.57
- FIRE HYDRANTS ARE REQUIRED WITHIN 800 FEET OF THE EXTERIOR REMOTE PORTION OF ANY PROPOSED BUILDING. CLEARANCES SHALL BE MAINTAINED OF SEVEN AND ONE HALF FEET (7'-6") IN FRONT OF AND TO THE SIDES OF EVERY FIRE HYDRANT, WITH FOUR FEET (4'-0") CLEARANCE TO THE REAR OF THE HYDRANT.
- NO FENCE WITH FOUNDATIONS WILL BE ALLOWED TO BE INSTALLED WITHIN SANITARY SEWER EASEMENTS.
- EASEMENTS WILL BE RECORDED AS REQUIRED.
- ALL CONSTRUCTION COVERED BY THESE PLANS SHALL COMPLY WITH THE MATERIAL REQUIREMENTS AND QUALITY CONTROL STANDARDS CONTAINED IN THE CITY OF DELAND LAND DEVELOPMENT REGULATIONS.
- ALL UTILITY CONSTRUCTION SHALL CONFORM TO THE CITY OF DELAND STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION, LATEST REVISION.
- THE SITE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION IN ACCORDANCE WITH THE APPROPRIATE LISTED CONSTRUCTION REFERENCES.
- UTILITIES SHOWN HEREIN HAVE BEEN LOCATED BASED ON ABOVE GROUND EXISTENCE OF STRUCTURES. ACTUAL LOCATION OF UNDERGROUND UTILITIES IS UNKNOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UTILITIES SHOWN OR NOT SHOWN THROUGH DIRECT CONTACT WITH THE APPROPRIATE UTILITY COMPANY. SUCH CONTACT SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT. ANY UTILITIES OBSTRUCTIVE TO THE SITE CONTRACTORS OPERATION ARE TO BE RELOCATED BY THE APPROPRIATE UTILITY COMPANY.
- ALL SECTION, BLOCK, AND PROPERTY CORNERS DISTURBED OR DESTROYED BY CONSTRUCTION OPERATIONS SHALL BE REPLACED BY A FLORIDA REGISTERED SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- COPIES OF THESE PLANS AS DESIGNED BY THE PROFESSIONAL ENGINEER OF RECORD HAVE BEEN RETAINED BY THE PROFESSIONAL ENGINEER AND THEY WILL NOT BE RESPONSIBLE FOR ANY SUBSEQUENT CHANGES TO THE REPRODUCIBLE ORIGINAL DOCUMENTS.
- CONCURRENCY WILL BE MET IN ACCORDANCE WITH THE CITY REQUIREMENTS. ANY AMOUNTS DUE FOR CONCURRENCY REQUIREMENTS MUST BE PAID AT FINAL C.O. UNLESS ALL REQUIRED INFRASTRUCTURE IS INSTALLED PRIOR TO THE ISSUANCE OF THE FIRST BUILDING PERMIT.
- FDEP CLEARANCES FOR WATER AND SEWER MUST BE SUBMITTED TO THE CITY OF DELAND PRIOR TO OBTAINING A CERTIFICATE OF OCCUPANCY.
- AS-BUILT PLANS ARE REQUIRED TO BE SUBMITTED TO THE CITY OF DELAND AND SHALL MEET THE MINIMUM CITY STANDARD REQUIREMENTS FOR ALL WATER AND/OR SEWER CONSTRUCTION.
- PRIOR TO THE START OF CONSTRUCTION, THE PROJECT ENGINEER SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE CITY OF DELAND DEVELOPMENT COORDINATOR. THE MEETING WILL TAKE PLACE AT THE CITY GROWTH MANAGEMENT DEPARTMENT WITH THE ENGINEER, CONTRACTOR AND STAFF. NO SITE WORK SHALL COMMENCE PRIOR TO THIS MEETING TAKING PLACE.
- ALL STORM WATER MANAGEMENT SYSTEMS SHALL BE SUBSTANTIALLY COMPLETED PRIOR TO THE CONSTRUCTION OF IMPERVIOUS AREAS.
- CONTRACTOR SHALL PERIODICALLY SWEEP EXISTING ON-SITE PAVED SURFACES AS WELL AS ALL ADJUTING CITY STREETS, COUNTY ROADS AND STATE HIGHWAYS (AS APPROPRIATE FOR THE PARTICULAR PROJECT) TO KEEP THOSE SURFACES IN A SUBSTANTIALLY SEDIMENT-FREE CONDITION. SWEEPING SHALL BE DONE ON A PERIODIC, AS-NEEDED BASIS THROUGHOUT THE WORK WEEK INCLUDING, MOST IMPORTANTLY, AFTER EVERY RAIN EVENT AND EVERY FRIDAY AFTERNOON PRIOR TO CEASING WORK FOR THE WEEK.
- CONTRACTOR SHALL DEVELOP AND IMPLEMENT A PLAN TO ASSURE THAT ALL WASTE, SUCH AS DISCARDED BUILDING MATERIALS, CONCRETE TRUCK WASH-OUT, CHEMICALS, LITTER AND SANITARY WASTE, ARE PROPERLY CONTROLLED WHILE ON-SITE AND TRANSPORTED AND DISPOSED OF (OFF-SITE) IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. NO WASTE MATERIALS OF ANY KIND ARE PERMITTED TO BE BURIED ON-SITE OR DISCHARGED TO SURFACE WATERS OF THE STATE OR TO THE MUNICIPAL STORM WATER SYSTEM.

Sanitary Sewer:

SANITARY SEWER TO BE PROVIDED BY CITY OF DELAND  
ANTICIPATED SANITARY SEWER DEMANDS:  
103 MOBILE HOMES x 260 G.P.D. x 0.667 (FOR 2 BR) = 17,862 G.P.D.

Potable Water:

POTABLE WATER TO BE PROVIDED BY CITY OF DELAND  
ANTICIPATED DEMANDS:  
103 MOBILE HOMES x 300 G.P.D. x 0.667 (FOR 2 BR) = 20,610 G.P.D.

Reclaimed Water:

CITY OF DELAND'S RECLAIMED WATER WILL BE USED FOR IRRIGATION.

Drainage Design Criteria:

ALL DRAINAGE STRUCTURE INVERTS SHALL BE GROUTED TO ELIMINATE SUMP CONDITIONS UNLESS OTHERWISE INDICATED. SEE SHEET 4 OF FDOT STANDARD PLAN 425-001 FOR REFERENCE.

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT REQUIREMENTS FOR WET DETENTION WERE USED FOR THE DESIGN OF PHASE 4 & 5

DESIGN CRITERIA OF CHAPTER 40C-40 USED IN PHASE 4 & 5 ARE AS FOLLOWS:

- DETENTION OF THE GREATER OF 1" OF RUNOFF WITHIN THE PROJECT'S DRAINAGE AREA OR 2.5" OF RUNOFF FROM ALL IMPERVIOUS AREA WITHIN A DRAINAGE AREA.
- RECOVERY OF ONE-HALF OF THE REQUIRED VOLUME BETWEEN 24 AND 30 HOURS
- A PERMANENT POOL VOLUME (PPV) TO PROVIDE A MINIMUM OF 21 DAYS RESIDENCE TIME. (SECTION 29.1; APPLICANT'S HANDBOOK). PONDS PROVIDING 21 DAYS (50% ABOVE MINIMUM) OR GREATER RESIDENCE TIME ARE NOT REQUIRED TO ESTABLISH AND MAINTAIN VEGETATIVE LITTORAL ZONES. (SEC. 14.7; APPLICANTS HANDBOOK)
- MAXIMUM DEPTH OF 12 FEET.
- MEAN DEPTH BETWEEN 2 AND 8 FEET (SEC. 29.3; APPLICANTS HANDBOOK)

THE WET DETENTION DRAINAGE SYSTEM FOR PHASES 4 & 5 MEET THESE CRITERIA.

CITY OF DELAND'S 25 YEAR/24 HOUR STORM REQUIREMENTS ARE ALSO MET.

SEE STORMWATER REPORT FOR CALCULATIONS.

Flood Certification:

THIS PROPERTY IS IN A ZONE "X" (AREA OF MINIMAL FLOODING) AND ZONE "A" PER FEMA PANEL 12127C0460H ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT ADMINISTRATION (FEMA).

ZONE "A" ESTIMATED AT ELEVATION 69.0

Soil Conditions:

HYDROLOGIC SOIL GROUPS CONSISTS OF:

CASSIA FINE SAND - "A" SOIL TYPE  
SMYRNA-SMYRNA - "A/D" SOIL TYPE

Drainage Facility Maintenance:

OWNER WILL BE RESPONSIBLE FOR MAINTAINING ON-SITE DRAINAGE FACILITIES WHICH INCLUDES MOWING DRAINAGE SWALES/BERMS ON A REGULAR BASIS.

Fire Protection:

- FIRE HYDRANTS WILL BE INSTALLED TO PROVIDE COVERAGE OF BUILDINGS. SEE PLANS FOR LOCATIONS.
- FIRE HYDRANTS MAXIMUM DISTANCE TO CLOSEST POINT ON A BUILDING = 600'. MAXIMUM DISTANCE BETWEEN FIRE HYDRANTS = 800'.
- MINIMUM 6" WATER MAIN (SEE WATER-SEWER PLAN) TO PROVIDE FIRE FLOW TO HYDRANTS. FIRE DEPARTMENT CONNECTIONS AND BACK FLOW PREVENTION DEVICES TO BE INSTALLED AS REQUIRED BY FIRE MARSHALL.

Tree Protection Area (T.P.A.):

TPA IN EXISTING PHASES

TPA - A = 12,728 SF (0.29 AC)  
TPA - B = 26,500 SF (0.61 AC)  
TPA - C = 44,311 SF (1.02 AC)  
TPA - D = 26,500 SF (0.61 AC)  
TPA - E = 44,311 SF (1.02 AC)  
TPA - F = 133,059 SF (3.05 AC)

EXISTING TPA AREA: 328,834 SF (13.45 AC)

EXISTING LAND AREA: 2,841,160 (65.22 AC)

328,834 SF (13.45 AC) / 2,841,160 (65.22 AC) = 11.57%

TPA IN PROPOSED PHASES

TPA - 1.0 = 69,213 SF (1.59 AC)  
TPA - 2.0 = NOT USED  
TPA - 3.0 = 119,843 SF (2.75 AC)  
TPA - 4.0 = 4,517 SF (0.10 AC)  
TPA - 5.0 = 31,516 SF (0.72 AC)

PROPOSED TPA AREA: 225,089 SF (5.17 AC)

PROPOSED LAND AREA: 971,388 SF (22.30 AC)

225,089 SF (5.17 AC)/ 971,388 SF (22.30 AC) = 23.17%

TPA OVER TOTAL PROPERTY (87.33 AC)

TOTAL LAND AREA: 3,812,905 SF (87.53 AC)

TOTAL TPA: 553,923 SF (12.72 AC)

553,923 SF (12.72 AC) / 3,812,905 SF (87.53 AC) = 14.53%

ALTHOUGH NOT REQUIRED FOR THE EXISTING PHASES, PROPOSED EXCESS TPA INCREASES THE OVERALL PROPERTY TPA TO 14.53%



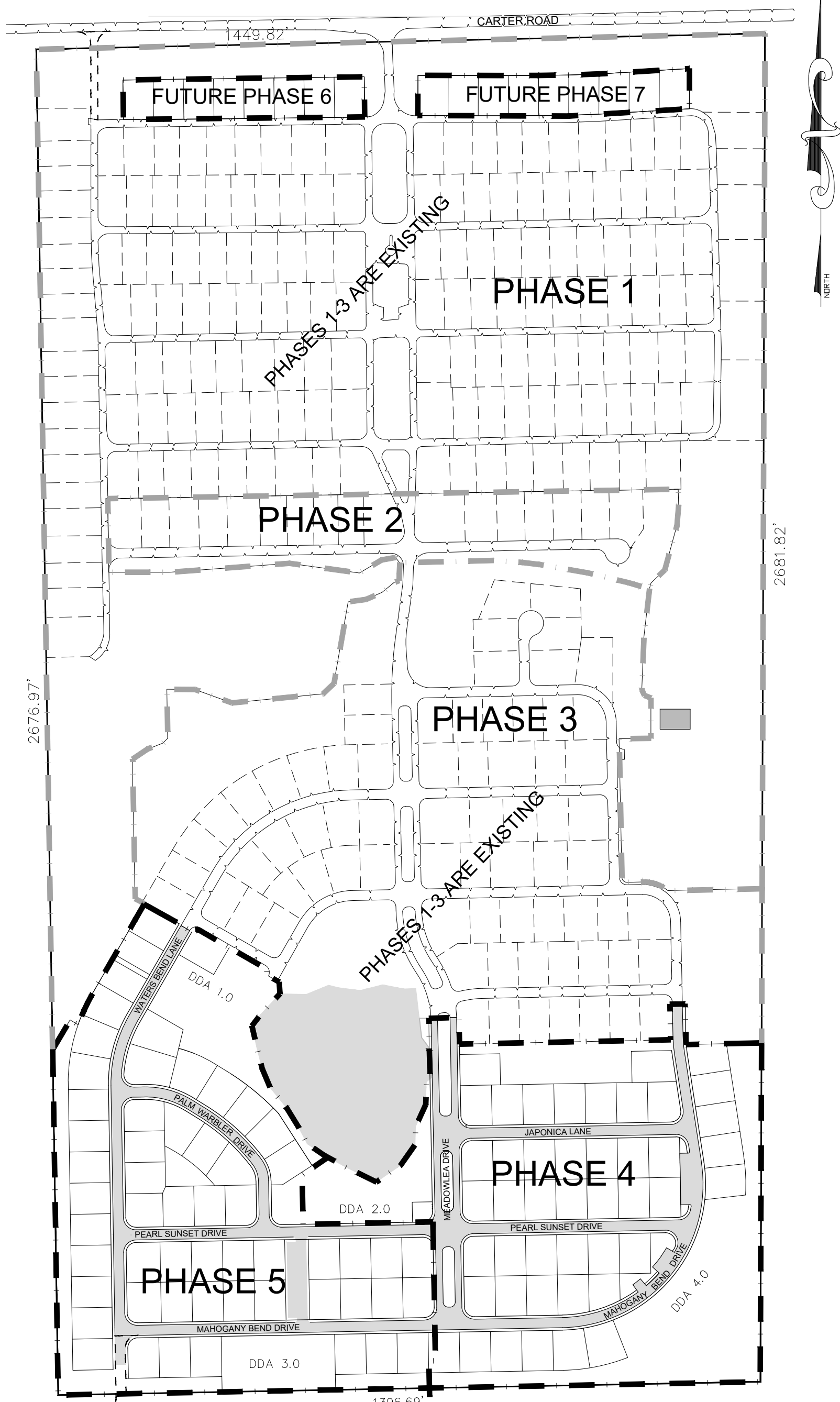
Meadowlea Village  
A COVE COMMUNITY

MEADOWLEA MHP - PH. 4 & 5 SITE PLAN

CITY OF DELAND, FLORIDA

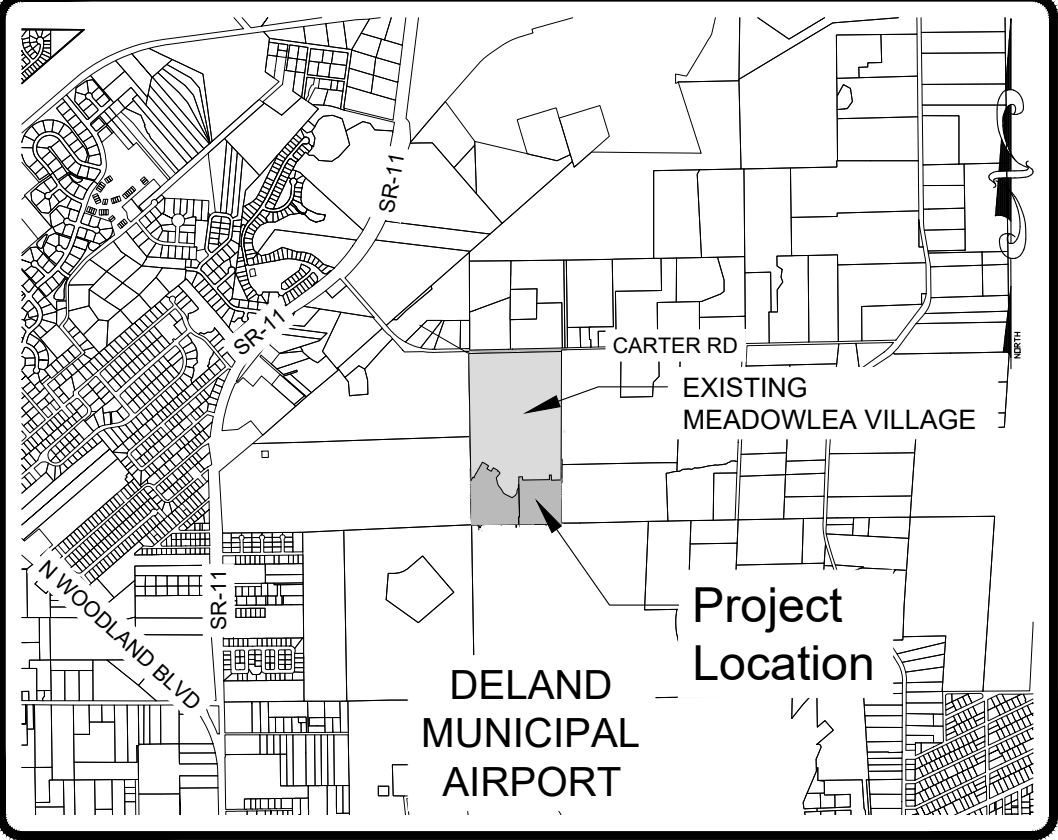
6027-00-00-0110

SECTION 27, TOWNSHIP 16 SOUTH, RANGE 30 EAST



Legal Description:

THE WEST 1/2 OF THE NORTHWEST 1/4 OF SECTION 27, TOWNSHIP 16 SOUTH, RANGE 30 EAST, VOLUSIA COUNTY, FLORIDA; LESS AND EXCEPT THAT PART LYING IN COUNTY ROAD.



LOCATION MAP

SCALE: 1" = 3000'  
DELAND, FLORIDA  
SECTION 27, TOWNSHIP 16 SOUTH, RANGE 30 EAST

Site Information:

PROJECT NAME: MEADOWLEA MASTER PLAN  
PARCEL NUMBER: 6027-00-00-0110  
PROJECT LOCATION: 1004 OVERLOOK DRIVE  
DELAND FLORIDA 32724  
PH. (904)736-1853  
OWNER: MEADOWLEA VENTURE 1 LLC  
CONTACT: GARY TIMMONS  
TELEPHONE: (443) 497-7001  
ADDRESS: 1901 SE 58TH AVE  
OCALA FL, 34480  
PROJECT ENGINEER: MICHAEL W RADCLIFFE ENGINEERING INC.  
2611 SE LAKE WEIR AVE.  
OCALA, FLORIDA 34471  
CONTACT: CHRIS GWIN, P.E.  
TELEPHONE: (352) 629-5500  
TOTAL MEADOWLEA  
PARCEL AREA: 3,812,910 SF (87.53 AC)  
TOTAL PROPOSED  
PH. 4 & 5 AREA: 971,749 SF (22.30 AC)  
PH. 4 & 5  
IMPERVIOUS AREA: 384,297 S.F. (8.82 AC.)  
ZONING: R-M  
MINIMUM MOBILE  
HOME LOT WIDTH 30 FEET  
MINIMUM MOBILE  
HOME LOT DEPTH 80 FEET  
LAND USE: RESIDENTIAL MOBILE HOME DISTRICT  
SETBACKS: 10' FRONT SETBACK (FROM EOP)  
15' SIDE SETBACKS  
15' REAR SETBACK  
40' BUILDING SETBACK (FROM ANY PROJECT  
PERIMETER PROPERTY LINE)  
BUILDING(S) HEIGHT: 1 STORY

Statement of Intent:

INFRASTRUCTURE AND CONSTRUCTION FOR DEVELOPMENT OF 103 MOBILE HOME LOTS AND ACCESSORY AMENITY FACILITIES ADDED TO EXISTING MOBILE HOME PARK. MEADOWLEA VILLAGE IS AN ADULT 55+ COMMUNITY.

Index of Sheets:

C001 COVER SHEET  
M001 MASTER PLAN  
C002 DETAILS  
C003 DRAINAGE PLAN  
C004 DRAINAGE DETENTION AREAS  
C005 GRADING PLAN  
C006 SITE PLAN  
C007 UTILITIES PLAN  
C008 LANDSCAPE AND IRRIGATION  
C009 TREE PLAN  
C010 TREE CHART  
C011 TREE DETAILS  
C012-19 PLAN AND PROFILES  
C020 SIGNAGE AND STRIPING  
C021 SWPPP  
S001-3 SURVEY  
10 PAGES CITY OF DELAND UTILITY DETAILS  
# PAGES FDOT STANDARD PLANS INDEX

| Revisions | By  | Date    | REVISION PER CIT OF DELAND COMMENTS |
|-----------|-----|---------|-------------------------------------|
| 3/27/23   | BIL | 2022-04 |                                     |

| Scale   | N/A                           | Project | 2022-04    |
|---------|-------------------------------|---------|------------|
| Drawn   | BIL                           | Date    | 10-14-2022 |
| Checked | MWR                           | Date    | 10-14-2022 |
| File    | Meadowlea Village Ph. 4-7.dwg |         |            |

**MICHAEL W. RADCLIFFE ENGINEERING, INC.**  
2611 SE Lake Weir Avenue  
Ocala, FL 34471  
(352) 629-5500 FAX (352) 629-1015  
Certificate No. EB-500618 • Michael W. Radcliffe P.E. #3170 • Christopher A. Gwin P.E. #6588  
www.radcliffeengineering.com

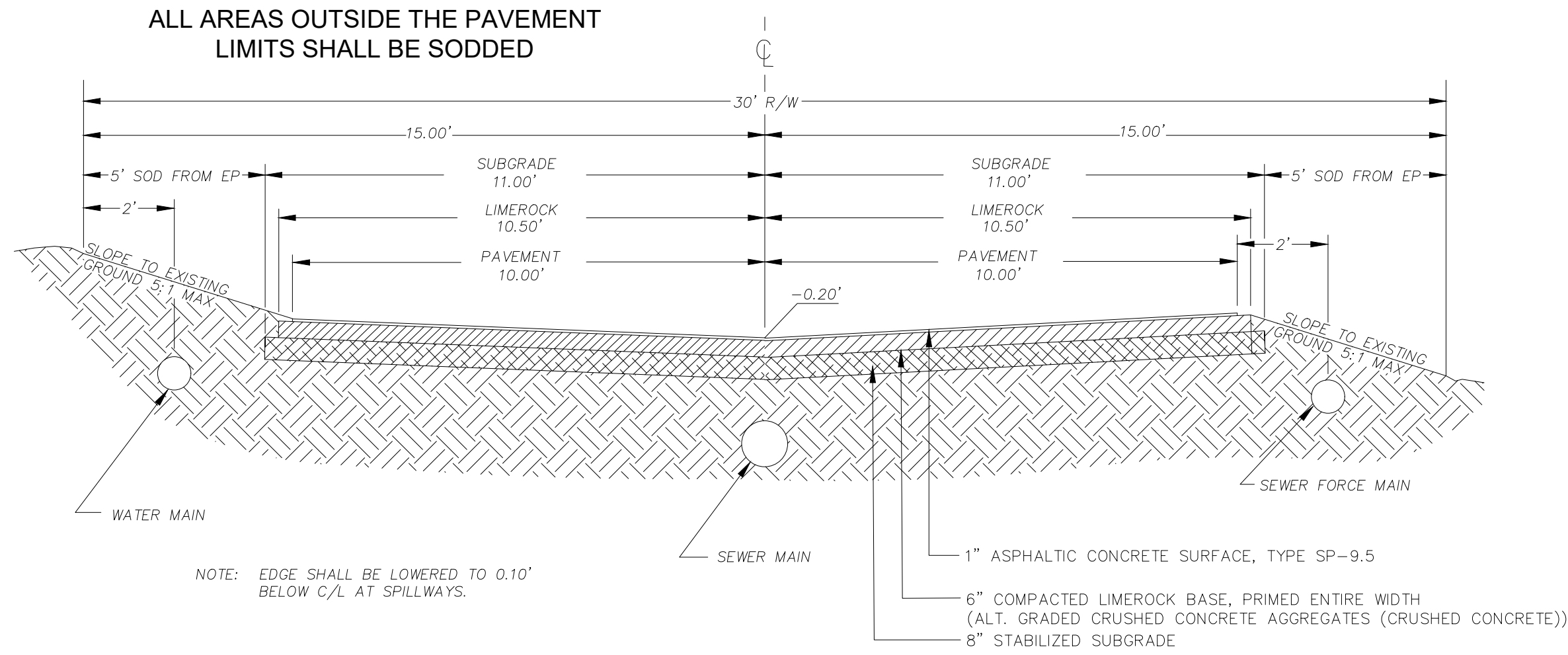
| Project Name | Meadowlea Village Ph. 4&5 |
|--------------|---------------------------|
| Sheet Name   | Cover Sheet               |

| Revisions to Plan Set | THIS DATE INDICATES THE LATEST DATE AT WHICH ANY PART OF THIS PLAN SET WAS REVISED. |
|-----------------------|-------------------------------------------------------------------------------------|
| 9-27-23               |                                                                                     |

| Sheet No. | C001 of C021 |
|-----------|--------------|
|-----------|--------------|



X:\MWR\Projects\Meadowlea MHP\2022-04 Meadowlea Village Ph. 4-7\Drawings\2022-04 Meadowlea Village Ph. 4-7.dwg 3/28/2023 12:33 PM



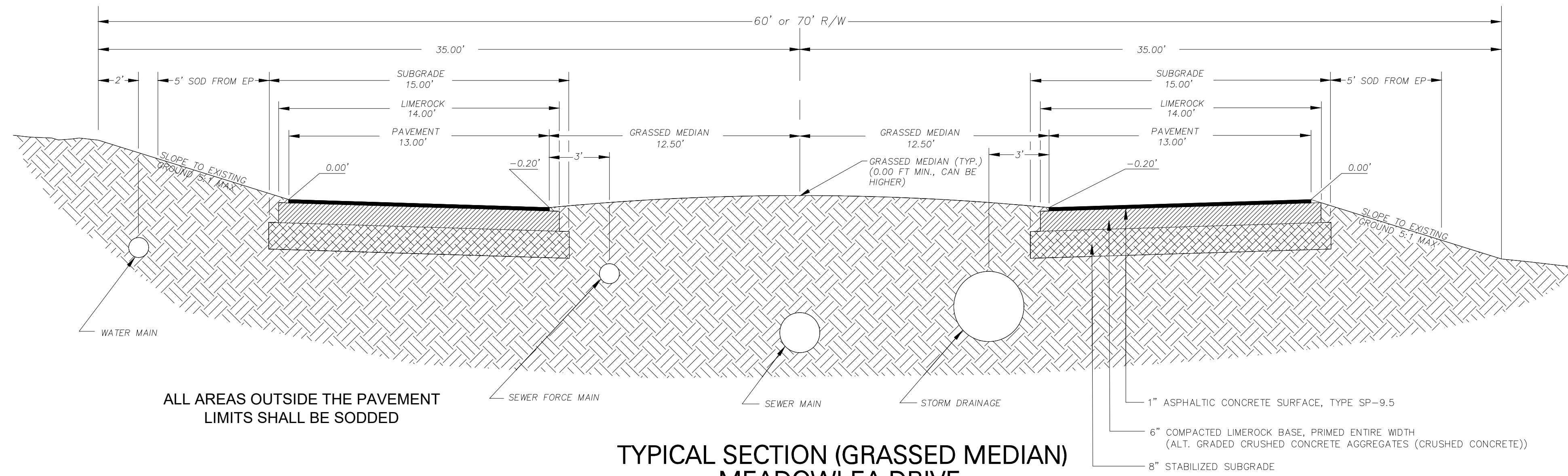
TYPICAL PAVEMENT SECTION  
INVERTED CROWN

Not to Scale



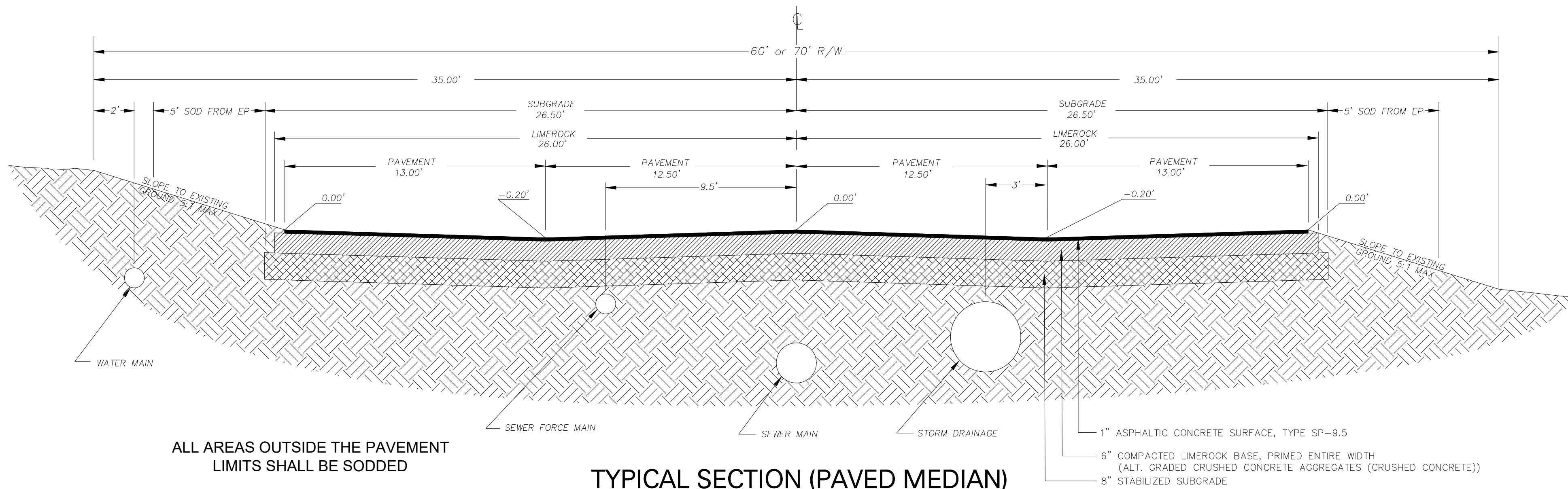
**Meadowlea Village**  
A COVE COMMUNITY

**MEADOWLEA MHP - PH. 4-7 SITE PLAN**  
CITY OF DELAND, FLORIDA



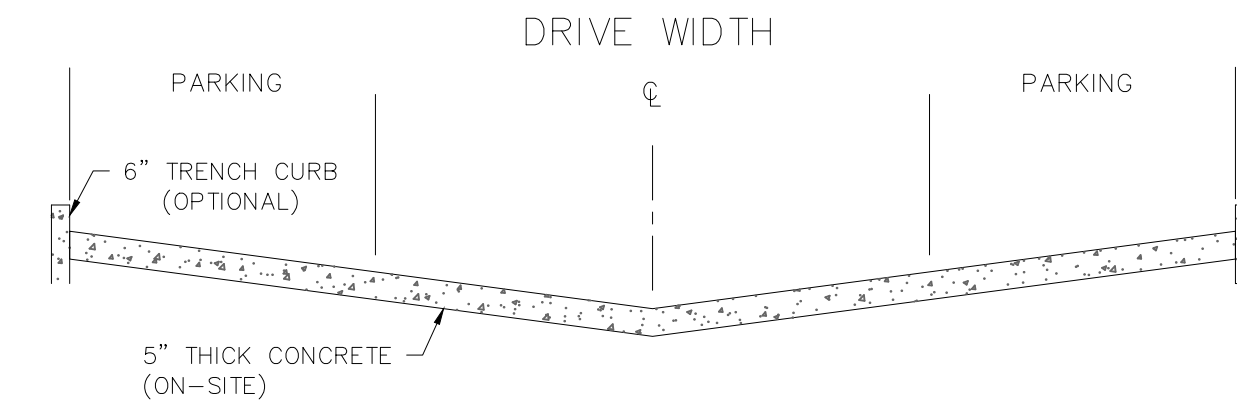
TYPICAL SECTION (GRASSED MEDIAN)  
MEADOWLEA DRIVE

Not to Scale



TYPICAL SECTION (PAVED MEDIAN)  
MEADOWLEA DRIVE

Not to Scale

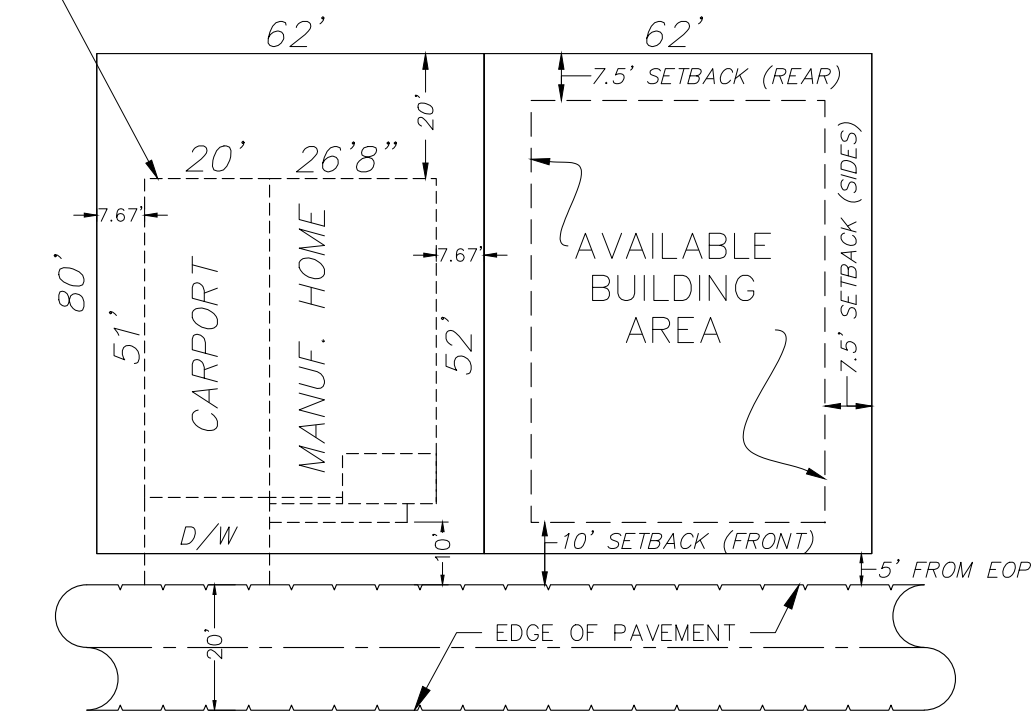


Concrete Drive Detail

Not To Scale

CONCRETE DRIVE CONSTRUCTION NOTE:  
ALL CONCRETE TO BE 3,000 PSI, 5" THICK WITH 6"x6" W1.4/W1.4 WWF OVER 6" STABILIZED SUBGRADE. (USE 6" THICK CONCRETE WITHIN RIGHT-OF-WAY)

CARPORT TO  
ACCOMMODATE  
2 VEHICLES



TYPICAL SPACE LAYOUT

Not To Scale

SETBACKS PER DELAND MUNICIPALITY CODE 33-17.11

SETBACKS FROM BOUNDARIES/BUILDING  
SEPARATION/IMPERVIOUS SURFACE LIMITATIONS

ACCESSORY STRUCTURE SETBACKS:

NO MOBILE HOME ACCESSORY STRUCTURE  
SHALL BE CLOSER THAN 7.5 FEET TO ANY  
REAR OR SIDE MOBILE HOME LOT.

SETBACKS FROM INTERNAL STREETS:

TEN FEET FROM EDGE OF PAVEMENT.

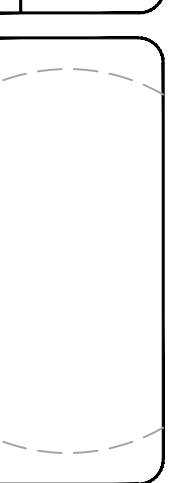
|              |                       |
|--------------|-----------------------|
| Revised:     |                       |
| By:          | BIL                   |
| Date:        | 3/27/23               |
| Revised Per: | Q1 OF DELAND COMMENTS |

|          |                               |
|----------|-------------------------------|
| Scale:   | N.T.S.                        |
| Project: | 2022-04                       |
| Date:    | 10-14-2022                    |
| Drawn:   | MWR                           |
| Checked: | MWR                           |
| File:    | Meadowlea Village Ph. 4-7.dwg |

**MICHAEL W. RADCLIFFE ENGINEERING, INC.**  
2811 S.E. Lake Weir Avenue  
Ocala, FL 34471  
Phone: (352) 629-5500  
Fax: (352) 629-0100  
Email: mradcliffe@radcliffeengineering.com  
www.radcliffeengineering.com

COPYRIGHT © 2023 Michael W. Radcliffe Engineering, Inc. All Rights Reserved.

|               |                           |
|---------------|---------------------------|
| Project Name: | Meadowlea Village Ph. 4&5 |
| Sheet Name:   | Details                   |



|           |      |
|-----------|------|
| Sheet No. | C002 |
| of        | C021 |



X:\MWR\Projects\MEADOWLEA MHP\2022-04 Meadowlea Village Ph. 4-7\Design\GD\MEADOWLEA Village Ph. 4-7.dwg 3/20/2023 2:33 PM

DRAINAGE SYSTEM STRUCTURES

S-1.1.0  
18" Concrete MES  
Northing: 1,726,123.96  
Easting: 562,973.65  
Inv. 62.00

S-1.1.1  
FDOT Type E Inlet  
Northing: 1,726,140.63  
Easting: 562,932.48  
Grate El. 68.11  
E Inv. Out 66.90 (P-(27))

S-1.2.0  
FDOT Type E Inlet  
Northing: 1,726,129.32  
Easting: 563,106.35  
Grate El. 208.60  
E Inv. Out 68.00 (P-(48) (1))

S-1.2.1  
FDOT Type E Inlet  
Northing: 1,726,124.80  
Easting: 563,120.62  
Grate El. 68.50

S-2.1.0  
18" Concrete MES  
Northing: 1,725,711.03  
Easting: 563,273.58  
Inv. 61.00

S-2.1.1  
FDOT Type E Inlet  
Northing: 1,725,687.06  
Easting: 563,274.31  
Grate El. 70.60  
N Inv. Out 66.70 (P-(28))

S-2.2.0  
18" Concrete MES  
Northing: 1,725,765.57  
Easting: 563,472.68  
Inv. 62.00

S-2.2.1  
FDOT Type E Inlet  
Northing: 1,725,766.41  
Easting: 563,517.83  
Grate El. 69.75  
W Inv. Out 65.56 (P-(30))

S-3.1.0  
18" Concrete MES  
Northing: 1,725,434.89  
Easting: 563,119.76  
Inv. 60.00

S-3.1.1  
FDOT Type E Inlet  
Northing: 1,725,474.19  
Easting: 563,119.46  
Grate El. 68.70  
S Inv. Out 64.50 (P-(24))

S-3.2.0  
FDOT Type C Inlet  
Northing: 1,725,382.31  
Easting: 563,290.98  
Grate El. 69.50  
E Inv. Out 66.60 (P-(37))

3.2.1  
6" Concrete MES  
Northing: 1,725,407.06  
Easting: 563,890.93  
Inv. 64.53

S-4.1.0  
18" Concrete MES  
Northing: 1,725,666.64  
Easting: 564,051.71  
Inv. 57.50

S-4.1.1  
FDOT Type E Inlet  
Northing: 1,725,680.76  
Easting: 564,015.26  
Grate El. 65.15  
N Inv. In 59.05 (P-(35))  
E Inv. Out 60.00 (P-(29))

S-4.1.2  
FDOT Type E Inlet  
Northing: 1,725,870.62  
Easting: 564,013.49  
Grate El. 66.17  
S Inv. Out 60.00 (P-(35))

S-4.2.0  
24" Concrete MES  
Northing: 1,725,482.26  
Easting: 563,904.72  
Inv. 57.50

S-4.2.1  
FDOT Type E Inlet  
Northing: 1,725,513.72  
Easting: 563,872.86  
Grate El. 65.00  
W Inv. In 60.00 (P-(31))  
SE Inv. Out 59.75 (P-(32))

S-4.2.2  
FDOT Type E Inlet  
Northing: 1,725,489.88  
Easting: 563,666.92  
Grate El. 66.92  
E Inv. Out 61.00 (P-(31))



Meadowlea Village  
A COVE COMMUNITY

MEADOWLEA MHP - PH. 4-7 SITE PLAN  
CITY OF DELAND, FLORIDA

DRA OVERFLOW STRUCTURES

S-2.3.0  
24" x 24" Yard Inlet  
Northing: 1,725,731.97  
Easting: 563,396.72  
Grate El. 70.60  
NW Inv. In 68.0 (1 3/8 Office)  
NE Inv. Out 69.22 (P-(48))

S-2.3.1  
6" Concrete MES  
Northing: 1,725,744.20  
Easting: 563,372.97  
Inv. 69.08

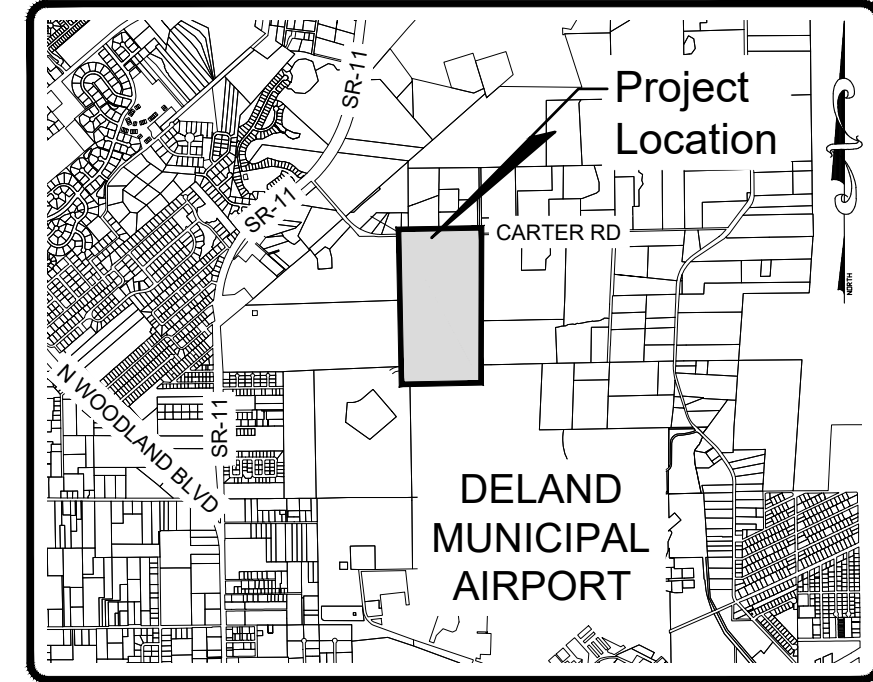
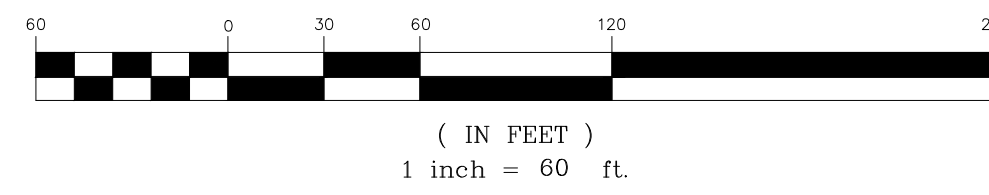
S-3.2.0  
24" x 24" Yard Inlet  
Northing: 1,725,382.31  
Easting: 563,290.98  
Grate El. 69.50  
N Inv. In 66.6 (1 1/4 Office)  
E Inv. Out 66.60 (P-(37))

3.2.1  
6" Concrete MES  
Northing: 1,725,407.06  
Easting: 563,890.93  
Inv. 64.53

S-4.3.0  
FDOT Type C Inlet  
Northing: 1,725,580.38  
Easting: 564,084.60  
Grate El. 64.65  
SE Inv. In (2 1/8 Office)  
SE Inv. Out 62.50 (P-(42))

S-4.3.1  
6" Concrete MES  
Northing: 1,725,566.09  
Easting: 564,095.82  
Inv. 61.92

GRAPHIC SCALE



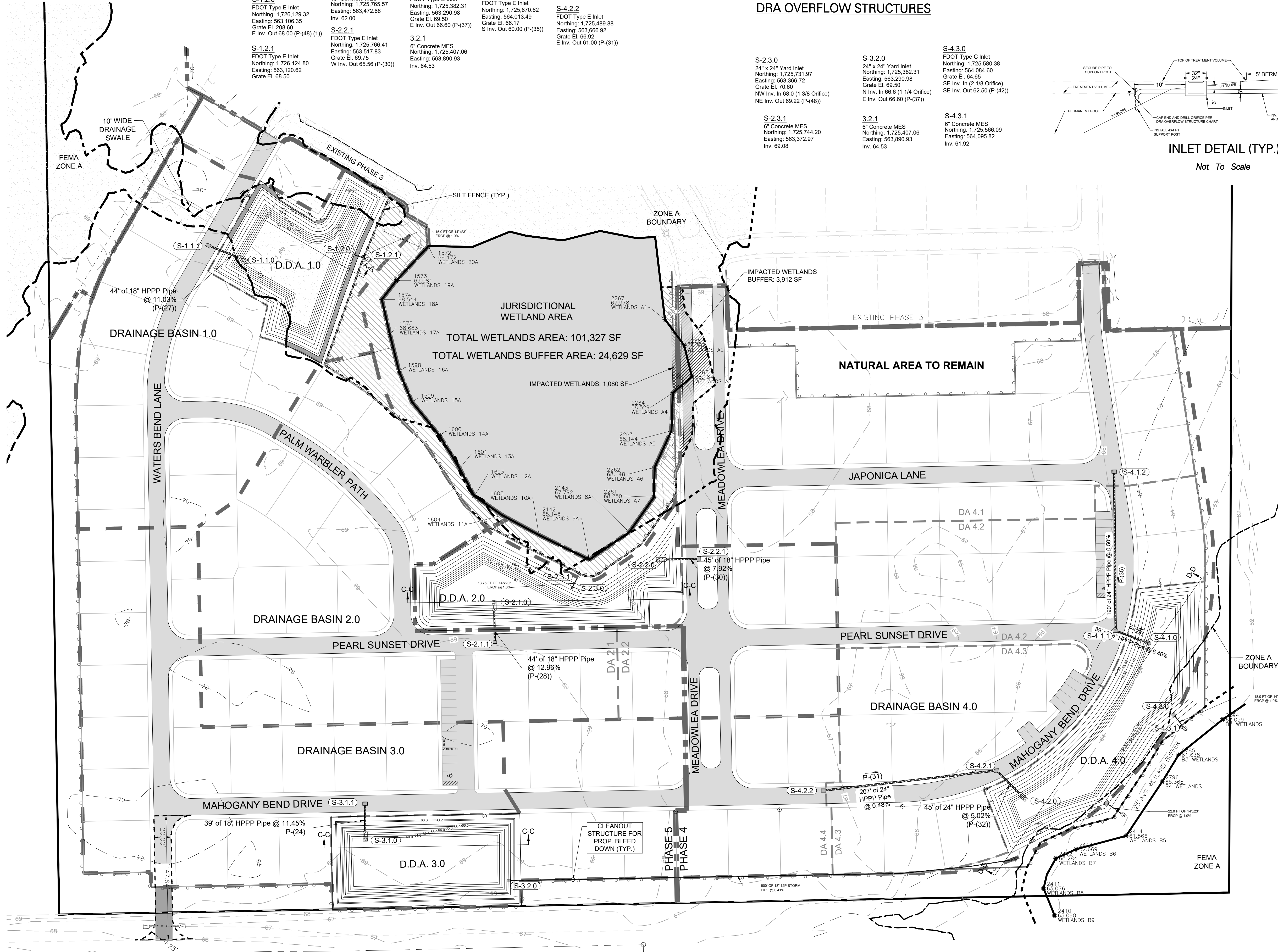
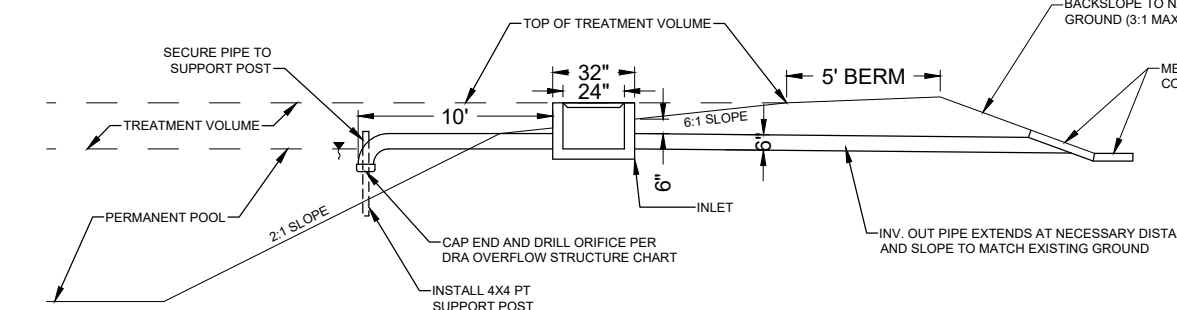
LOCATION MAP  
SCALE: 1" = 400'  
DELAND, FLORIDA  
SECTION 27, TOWNSHIP 16 SOUTH, RANGE 30 EAST

Legend:

- 65- = CONTOUR LABEL
- [Hatched Area] = FEMA ZONES
- [Solid Line] = WETLAND BOUNDARY
- [Dashed Line] = WETLAND BUFFER
- [Dotted Line] = EXISTING CONTOUR (MJR)
- [Long Dash Short Dash] = EXISTING CONTOUR (MNR)
- [Short Dash] = PROPOSED SILT FENCE
- [Thick Dashed Line] = DRAINAGE BASIN BOUNDARY
- [Thin Dashed Line] = SUB BASIN BOUNDARY
- [Circle with X] = PROP BLEED DOWN CLEANOUT
- [Dashed Line with Arrow] = PHASE LINE
- [Section Line] = D.D.A. CROSS SECTION LOCATION (SEE D.D.A. SECTIONS SHEET C004)

INLET DETAIL (TYP.)

Not To Scale



DRAINAGE BASIN 1.0

TOTAL AREA - 117,248 SF  
TOTAL IMPERV. - 59,625 SF

DRAINAGE BASIN 2.1

TOTAL AREA - 131,865 SF  
TOTAL IMPERV. - 68,530 SF

DRAINAGE BASIN 2.2

TOTAL AREA - 46,511 SF  
TOTAL IMPERV. - 25,607 SF

DRAINAGE BASIN 3.0

TOTAL AREA - 140,086 SF  
TOTAL IMPERV. - 66,033 SF

DRAINAGE BASIN 4.1

TOTAL AREA - 145,977 SF  
TOTAL IMPERV. - 70,070 SF

DRAINAGE BASIN 4.2

TOTAL AREA - 66,753 SF  
TOTAL IMPERV. - 40,205 SF

DRAINAGE BASIN 4.3

TOTAL AREA - 65,647 SF  
TOTAL IMPERV. - 35,990 SF

DRAINAGE BASIN 4.4

TOTAL AREA - 73,111 SF  
TOTAL IMPERV. - 42,649 SF

|          |                                    |
|----------|------------------------------------|
| Revised: |                                    |
| By:      | BIL                                |
| Date:    | 3/27/23                            |
|          | REVISED PER QIT OF DELAND COMMENTS |

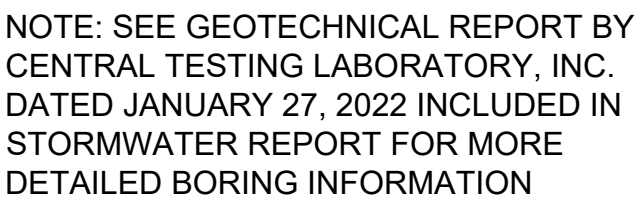
|          |                               |
|----------|-------------------------------|
| Scale:   | 1" = 60'                      |
| Project: | 2022-04                       |
| Drawn:   | MWR                           |
| Checked: | MWR                           |
| File:    | Meadowlea Village Ph. 4-7.dwg |

**MICHAEL W. RADCLIFFE ENGINEERING, INC.**  
2811 S.E. Lake Weir Avenue, Ocala, FL 34471 (352) 629-5500 FAX (352) 629-0103  
Certificate No. EB-5006186 • Michael W. Radcliffe P.E. #3170 • Christopher A. Cain P.E. #6588  
www.radcliffeengineering.com

Project Name: Meadowlea Village Ph. 4&5  
Sheet Name: Drainage Plan

Sheet No.  
C003  
of  
C018



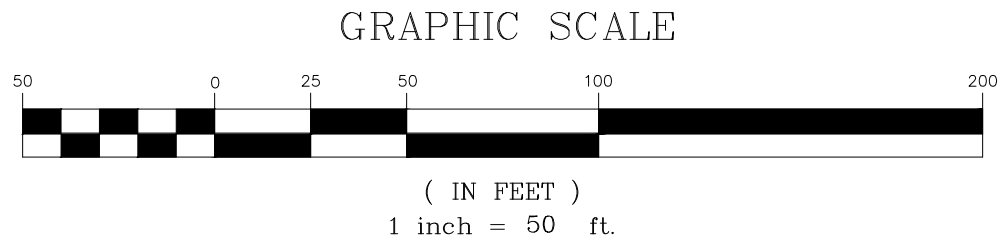


NOTE: SOD ALL SIDE SLOPES,  
BERMS AND DRA BOTTOM.





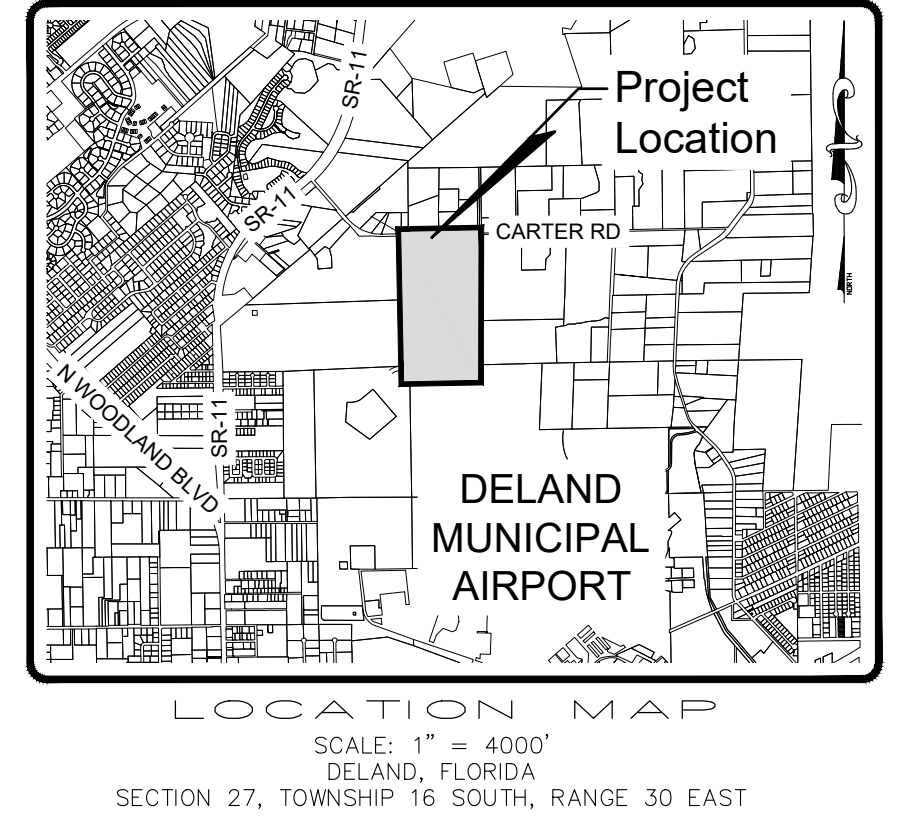
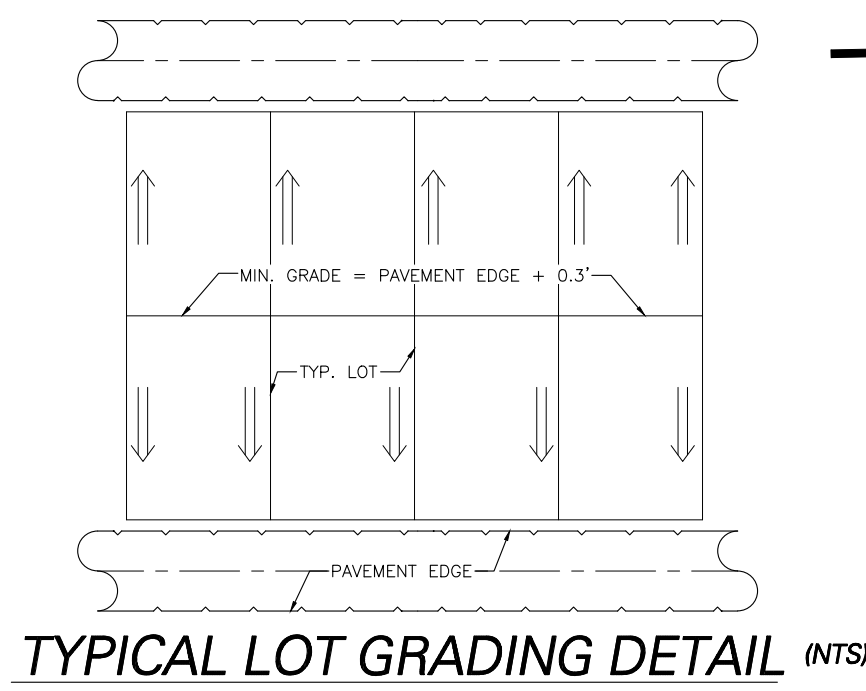
X:\MWR\Projects\Meadowlea MHP\2022-04 Meadowlea Village Ph. 4-7.dwg 3/29/2023 2:54 PM



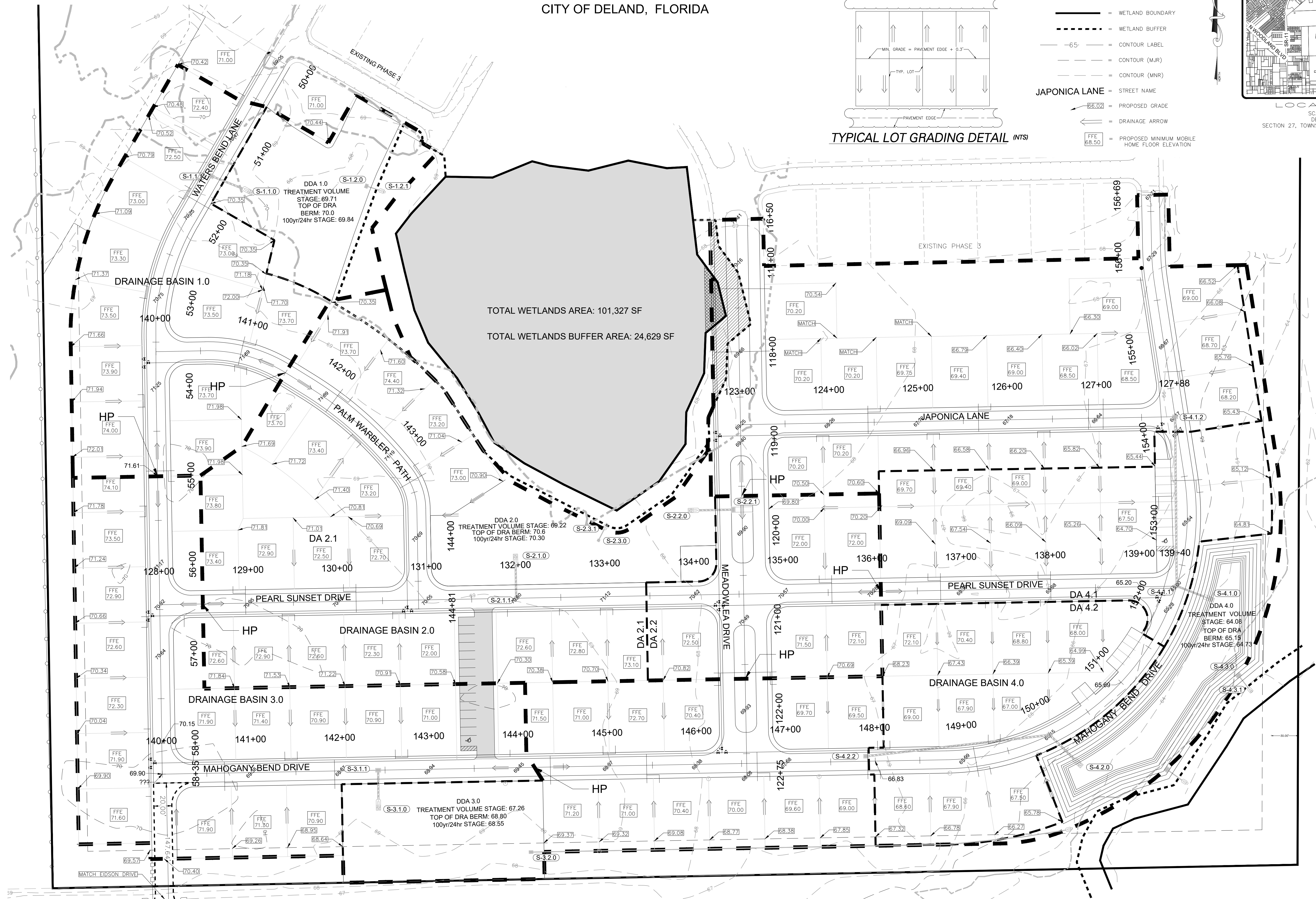
MEADOWLEA MHP - PH. 4-7 SITE PLAN  
CITY OF DELAND, FLORIDA

Legend:

- = DRAINAGE BASIN BOUNDARY
- - - = SUB BASIN BOUNDARY
- - - = WETLAND BOUNDARY
- - - = WETLAND BUFFER
- - - = CONTOUR LABEL
- - - = CONTOUR (MUR)
- - - = CONTOUR (MNR)
- JAPONICA LANE = STREET NAME
- 66.02 = PROPOSED GRADE
- 68.50 = DRAINAGE ARROW
- 68.50 = PROPOSED MINIMUM MOBILE HOME FLOOR ELEVATION



TOTAL WETLANDS AREA: 101,327 SF  
TOTAL WETLANDS BUFFER AREA: 24,629 SF



|               |                           |
|---------------|---------------------------|
| Project Name: | Meadowlea Village Ph. 4&5 |
| Sheet Name:   | Grading Plan              |
| Sheet No.:    | C005 of C021              |

|           |                               |          |            |
|-----------|-------------------------------|----------|------------|
| Designed: | MWR                           | Scale:   | 1" = 50'   |
| Drawn:    | BIL                           | Project: | 2022-04    |
| Checked:  | MWR                           | Date:    | 10-14-2022 |
| File:     | Meadowlea Village Ph. 4-7.dwg |          |            |

Revised: 3/27/23 BIL REVISED PER QIT OF DELAND COMMENTS

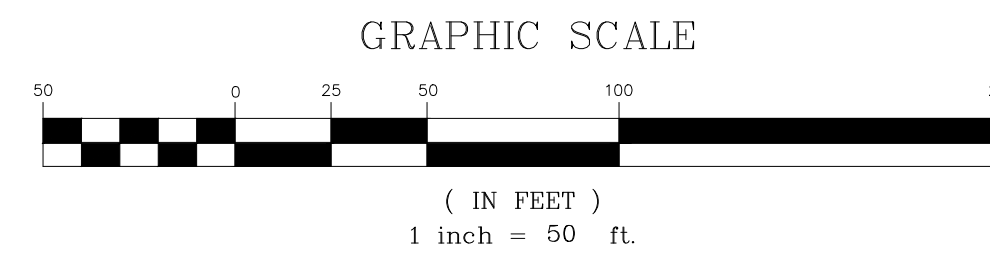
**MICHAEL W. RADCLIFFE ENGINEERING, INC.**  
2811 S.E. Lake Weir Avenue, Suite 100, Deland, FL 32725  
Phone: (386) 628-5500 Fax: (386) 628-0100  
www.radcliffeengineering.com  
Certificate No. 13-000188 • Michael W. Radcliffe P.E. #3170 • Christopher A. Cain P.E. #6588

Copyright © 2023 Michael W. Radcliffe Engineering, Inc. All Rights Reserved.



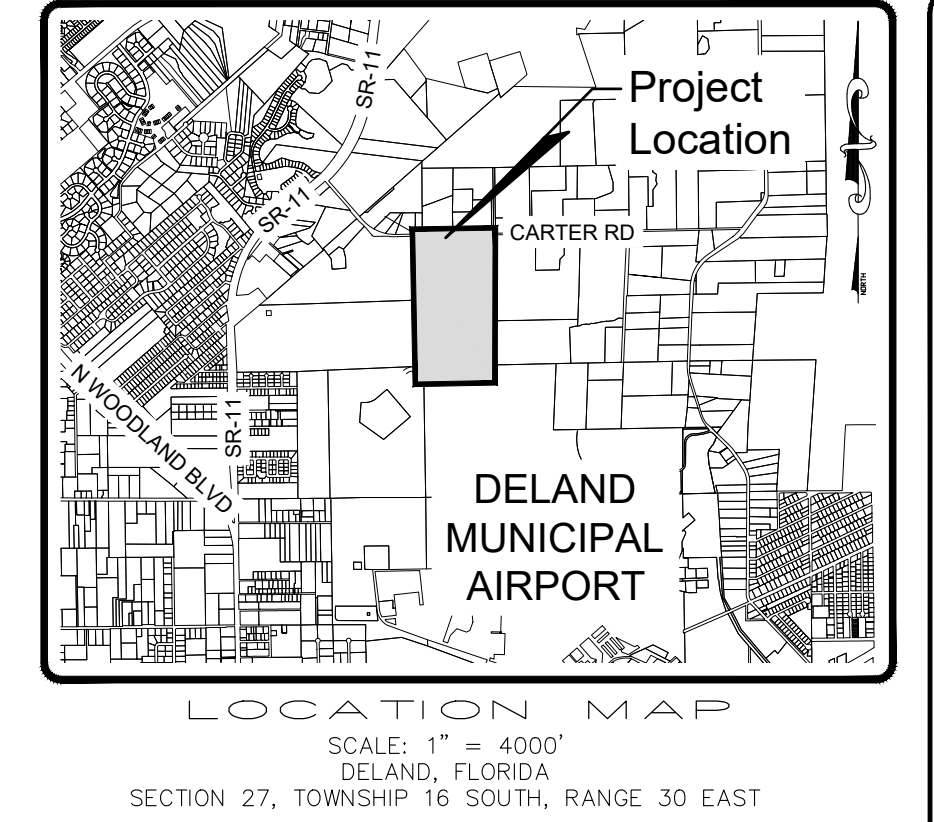
# Meadowlea Village

A COVE COMMUNITY



Legend:

- |                                                                                     |                       |
|-------------------------------------------------------------------------------------|-----------------------|
|  | TREE PROTECTION AREA  |
|  | WETLAND BOUNDARY      |
|  | WETLAND BUFFER        |
|  | JAPONICA LANE         |
|  | PROPOSED FIRE HYDRANT |
|  | PHASE LINE            |
|  | FEMA ZONES            |



|         |     |                                     |
|---------|-----|-------------------------------------|
| 3/27/23 | BIL | REVISED PER CIT OF DELAND COMMENTS. |
|         |     |                                     |
|         |     |                                     |
|         |     |                                     |

|                                     |     |          |            |
|-------------------------------------|-----|----------|------------|
| Drawn:                              | BIL | Project: | 2022-04    |
| Checked:                            | MWR | Date:    | 10-14-2022 |
| File: Meadowlea Village Ph. 4-7.dwg |     |          |            |

**RADCLIFFE** **MICHAEL W. RADCLIFFE ENGINEERING, INC.**  
2611 S.E. Lake Weir Avenue Ocala, FL 34471 (352) 629-5500 FAX (352) 629-1010  
Certificate No. EB-0006188 • Michael W. Radcliffe P.E. J31170 • Christopher A. Gwin P.E. #65688  
[www.radcliffeengineering.com](http://www.radcliffeengineering.com)

Meadowlea Village P11, 4&5  
 jmc:  
 Proposed Phase IV & V

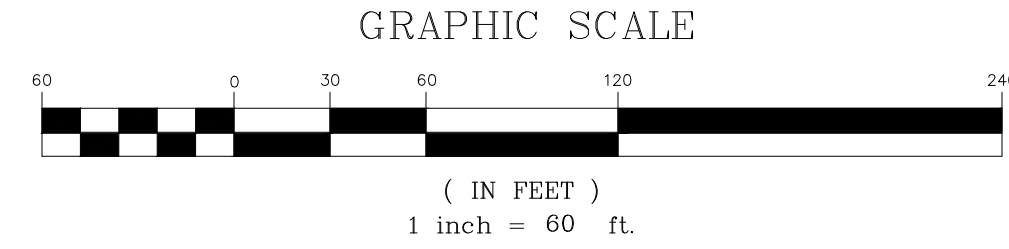
Sheet No.  
C006  
of  
C021





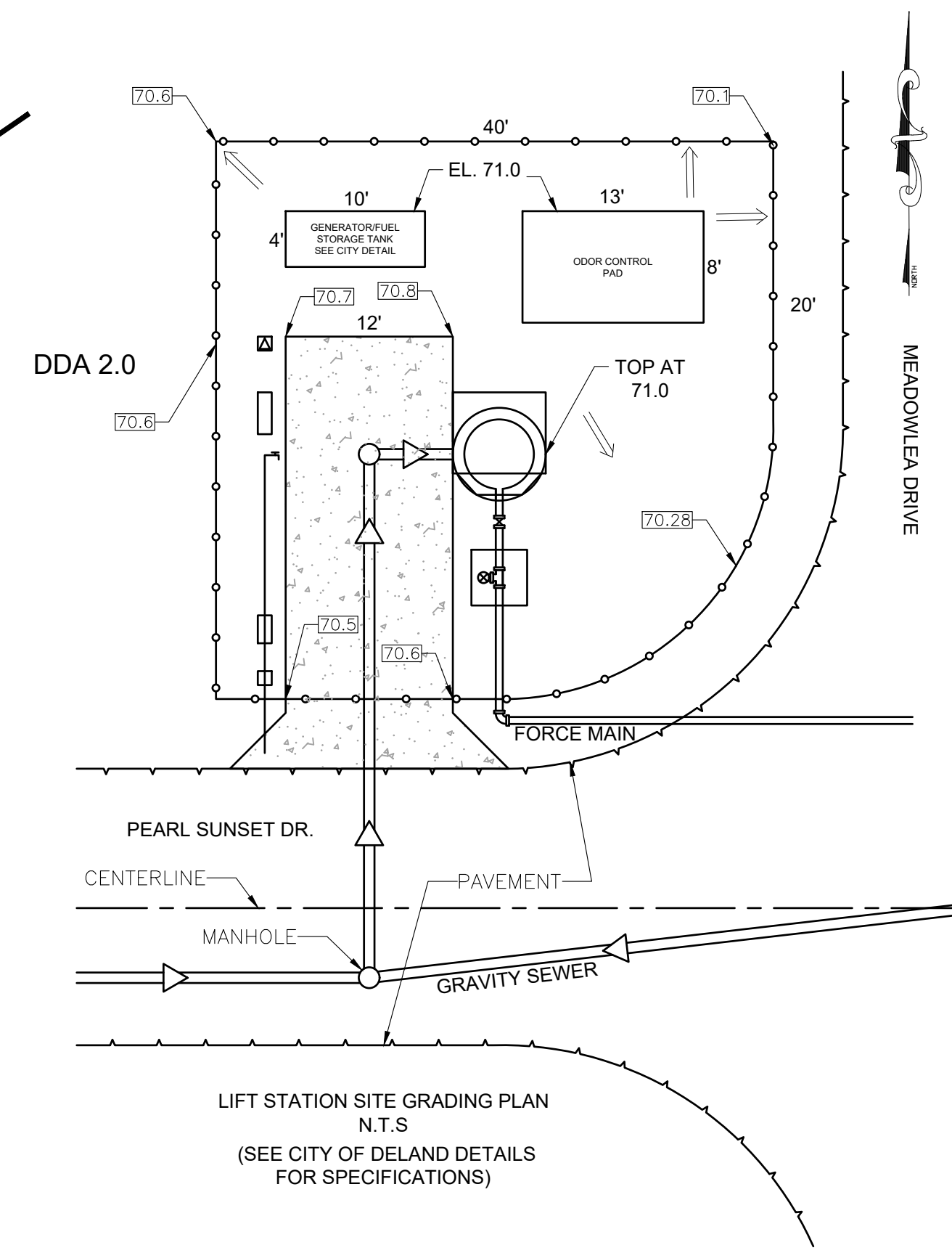
# Meadowlea Village

## A COVE COMMUNITY



### Legend:

- 65- CONTOUR LABEL
- FEMA ZONES
- WETLAND BOUNDARY
- WETLAND BUFFER
- CONTOUR (M/R)
- CONTOUR (M/R)
- JAPONICA LANE PROPOSED STREET NAME
- PROPOSED FIRE HYDRANT
- PROPOSED MANHOLE
- PROPOSED DOUBLE SEWER SERVICES
- PROPOSED DOUBLE WATER SERVICES



|          |                               |
|----------|-------------------------------|
| Revised: |                               |
| By:      | BIL                           |
| Date:    | 3/27/23                       |
| Project: | 2022-04                       |
| Date:    | 10-14-2022                    |
| File:    | Meadowlea Village Ph. 4-7.dwg |

|           |                               |
|-----------|-------------------------------|
| Designed: | MWR                           |
| Drawn:    | BIL                           |
| Checked:  | MWR                           |
| File:     | Meadowlea Village Ph. 4-7.dwg |

**MICHAEL W. RADCLIFFE ENGINEERING, INC.**  
2811 S.E. Lake View Avenue  
Ocala, FL 34471  
(352) 628-5500 FAX (352) 628-1010  
Certificate No. EB-000188 • Michael W. Radcliffe P.E. #3170 • Christopher A. Cain P.E. #45588

Project Name: Meadowlea Village Ph. 4&5  
Sheet Name: Utility Plan

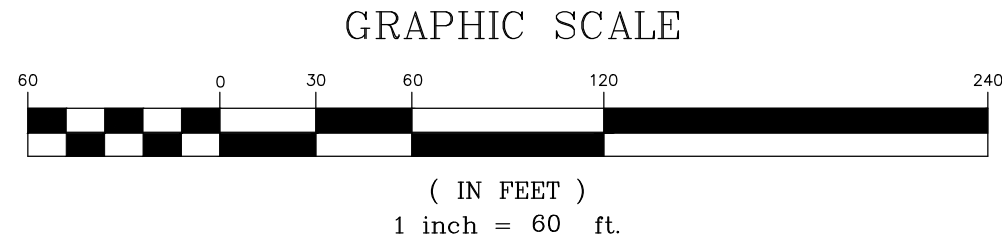
Sheet No.  
C007  
of  
C021





# Meadowlea Village

## A COVE COMMUNITY



### Legend:

- WETLAND BOUNDARY
- WETLAND BUFFER
- JAPONICA LANE
- PROPOSED STREET NAME
- PROPOSED FIRE HYDRANT
- PROPOSED MANHOLE
- PROPOSED DOUBLE SEWER SERVICES
- PROPOSED DOUBLE WATER SERVICES
- PROPOSED DOUBLE RECLAIM SERVICES
- PROPOSED WATER VALVE



**Note:**  
MAINTAIN REQUIRED CLEARANCES BETWEEN POTABLE WATER AND RECLAIMED WATER SYSTEMS. SEE CITY DETAIL W420.

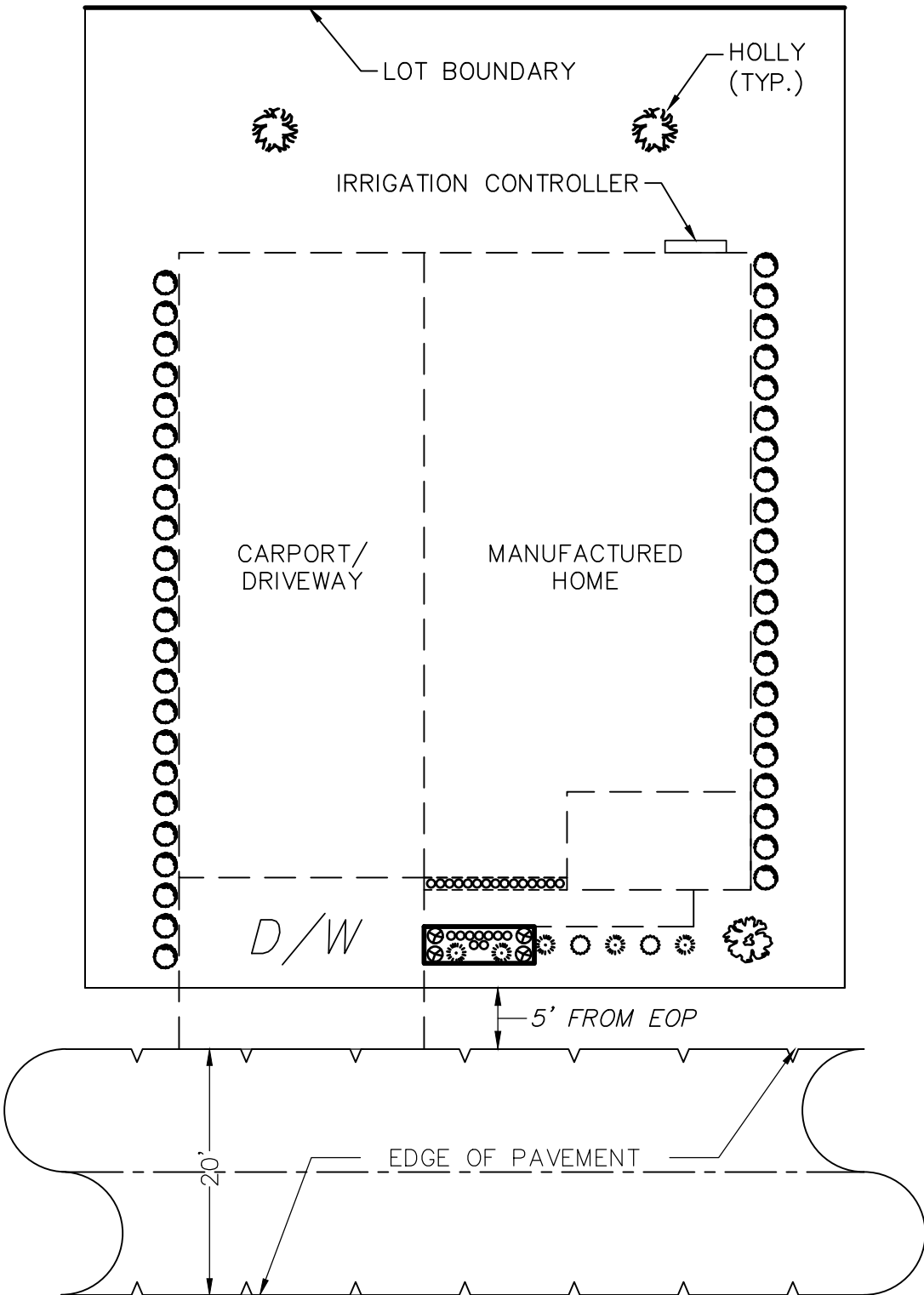
### Landscape Notes:

- LANDSCAPE BED TO PROVIDE:  
x4 CROTON PLANTS  
x2 LANTANA OR BLUE DAZE  
x8 FLOWERS
- MEADOWLEA VILLAGE IS A RENTAL MANUFACTURED HOME COMMUNITY WITH ALL LAND UNDER SINGLE OWNERSHIP.
- WATER/SEWER FOR EXISTING PHASES 1-3 IS PROVIDED BY MEADOWLEA VILLAGE

## TYPICAL LOT LANDSCAPING

Not To Scale

MINIMUM TREE PLANTING SIZE PER CITY OF DELAND MUNICODE SEC.33-57.05(b)2



### PLANT / TREE LEGEND

|                           |  |
|---------------------------|--|
| LIVE OAK (x1)             |  |
| AMERICAN HOLLY (x2)       |  |
| FLOWERS (x24)             |  |
| LANTANA OR BLUE DAZE (x6) |  |
| PODOCARPUS (x44)          |  |
| TY PLANT (x4)             |  |
| CROTON PLANT (x4)         |  |

|          |                               |
|----------|-------------------------------|
| Revised: |                               |
| By:      | BIL                           |
| Date:    | 2/20/23                       |
| Project: | 2022-04                       |
| Date:    | 10-14-2022                    |
| File:    | Meadowlea Village Ph. 4-7.dwg |

|           |                               |
|-----------|-------------------------------|
| Designed: | MWR                           |
| Drawn:    | BIL                           |
| Checked:  | MWR                           |
| File:     | Meadowlea Village Ph. 4-7.dwg |

**MICHAEL W. RADCLIFFE ENGINEERING, INC.**  
2811 S.E. Lake View Avenue, Ocala, FL 34471  
(352) 628-5500 FAX (352) 628-1010  
Certificate No. EB-5006198 • Michael W. Radcliffe P.E. #3170 • Christopher A. Cain P.E. #45588

Project Name: Meadowlea Village Ph. 4&5  
Sheet Name: Landscape/Irrigation Plan

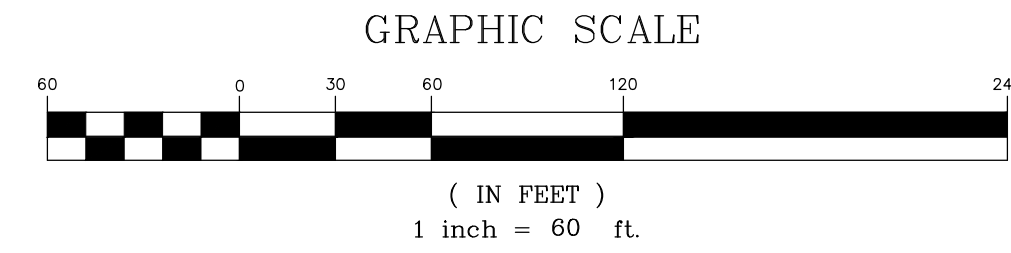
|           |
|-----------|
| Sheet No. |
| C007      |
| of        |
| C020      |





# Meadowlea Village

## A COVE COMMUNITY

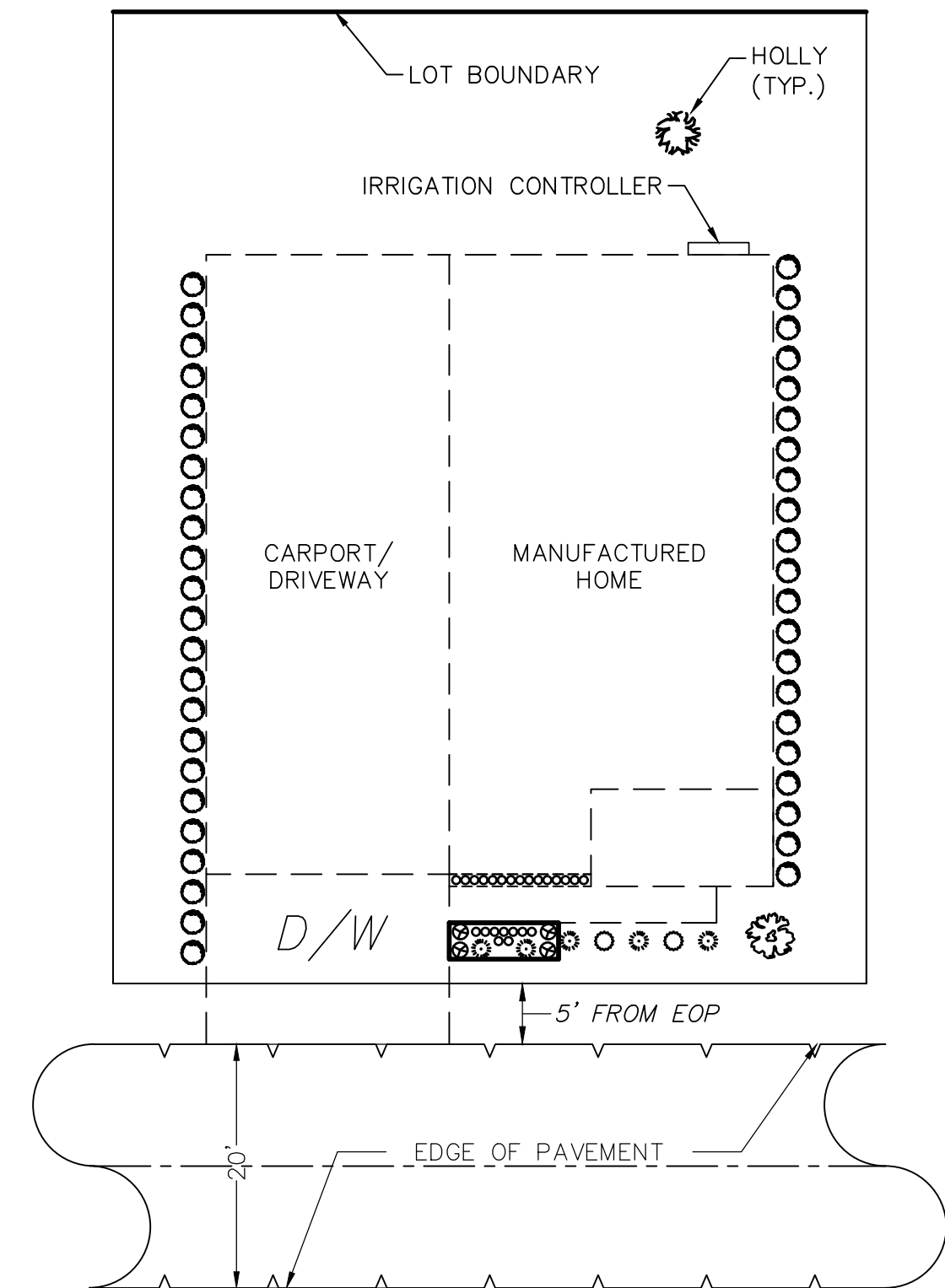


### Legend:

- WETLAND BOUNDARY
- WETLAND BUFFER
- JAPONICA LANE
- PROPOSED STREET NAME
- PROPOSED FIRE HYDRANT
- PROPOSED MANHOLE
- PROPOSED DOUBLE SEWER SERVICES
- PROPOSED DOUBLE WATER SERVICES
- PROPOSED DOUBLE RECLAIM SERVICES
- PROPOSED WATER VALVE

### Landscape Notes:

- LANDSCAPE BED TO PROVIDE:  
x4 CROTON PLANTS  
x2 LANTANA OR BLUE DAZE  
x9 FLOWERS
- MEADOWLEA VILLAGE IS A RENTAL MANUFACTURED HOME COMMUNITY WITH ALL LAND UNDER SINGLE OWNERSHIP.
- TWO TREES TO BE PLANTED PER LOT: (102 LOTS X 2 TREES = 104 TREES)
- WATER/SEWER FOR EXISTING PHASES 1-3 IS PROVIDED BY MEADOWLEA VILLAGE.
- TREES TO BE PLANTED AT MINIMUM SIZE:  
3" CALIPER, 8" HEIGHT, 4' SPREAD, 45 GALLON.



### TYPICAL LOT LANDSCAPING

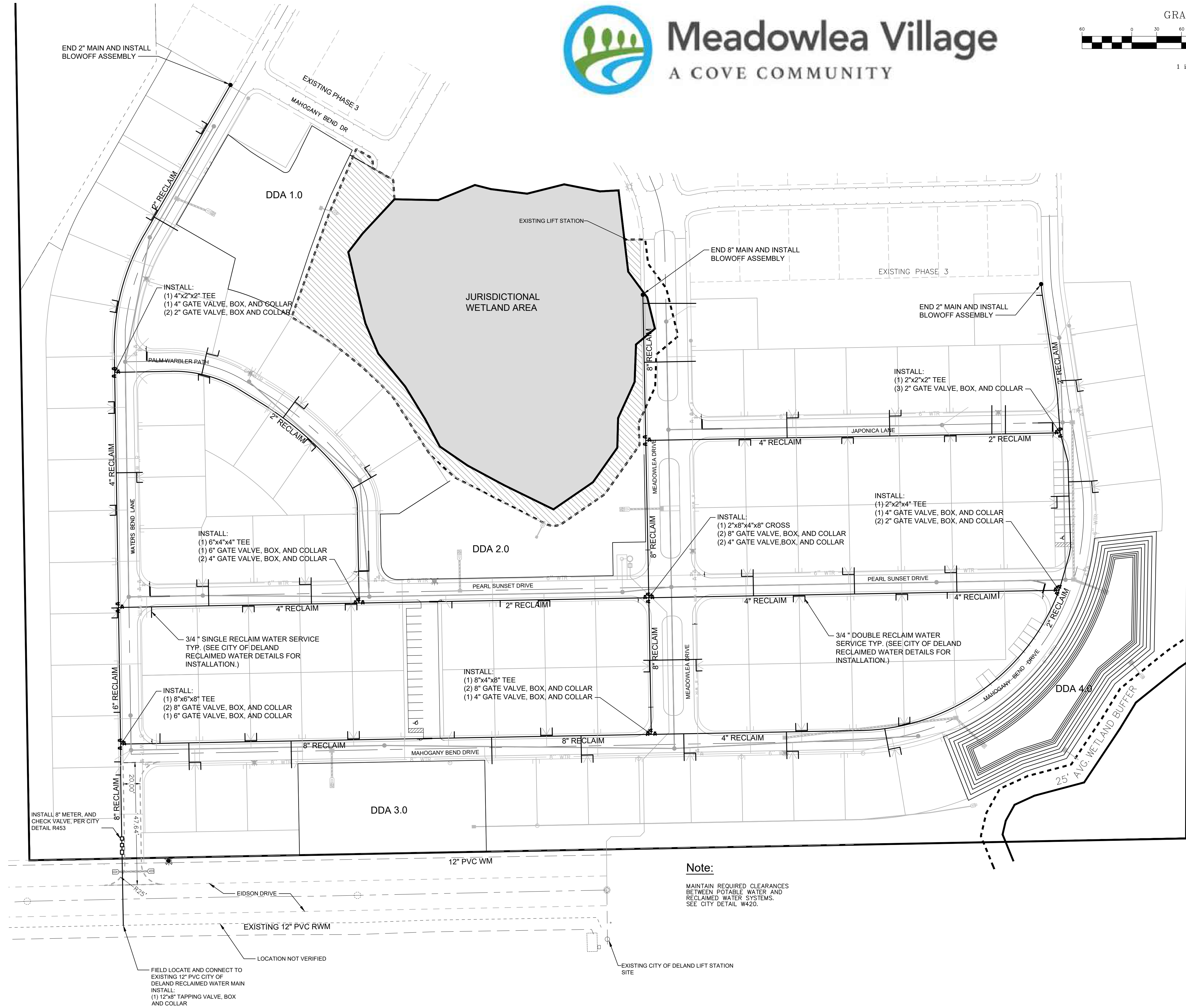
Not To Scale

MINIMUM TREE PLANTING SIZE PER CITY OF DELAND MUNICODE SEC.33-57.05(b)2

| PLANT / TREE LEGEND       |   |
|---------------------------|---|
| LIVE OAK (x1)             | ○ |
| AMERICAN HOLLY (x2)       | ● |
| FLOWERS (x9)              | ○ |
| LANTANA OR BLUE DAZE (x8) | ○ |
| PODOCARPUS (x4)           | ○ |
| TY PLANT (x4)             | ○ |
| CROTON PLANT (x4)         | ○ |

### Note:

MAINTAIN REQUIRED CLEARANCES BETWEEN POTABLE WATER AND RECLAIMED WATER SYSTEMS. SEE CITY DETAIL W420.



|          |                               |
|----------|-------------------------------|
| Revised: |                               |
| By:      | BIL                           |
| Date:    | 3/27/23                       |
| Project: | 2022-04                       |
| Date:    | 10-14-2022                    |
| Checked: | MWR                           |
| File:    | Meadowlea Village Ph. 4-7.dwg |

**MICHAEL W. RADLIFF ENGINEERING, INC.**  
2811 S.E. Lake Weir Avenue  
Ocala, FL 34471  
Phone: (352) 628-5500  
Fax: (352) 628-1010  
Certificate No. EB-5006198 • Michael W. Radcliffe P.E. #31170 • Christopher A. Cain P.E. #65583

Project Name: Meadowlea Village Ph. 4&5  
Sheet Name: Landscape/Irrigation Plan

Sheet No.  
C007  
of  
C021



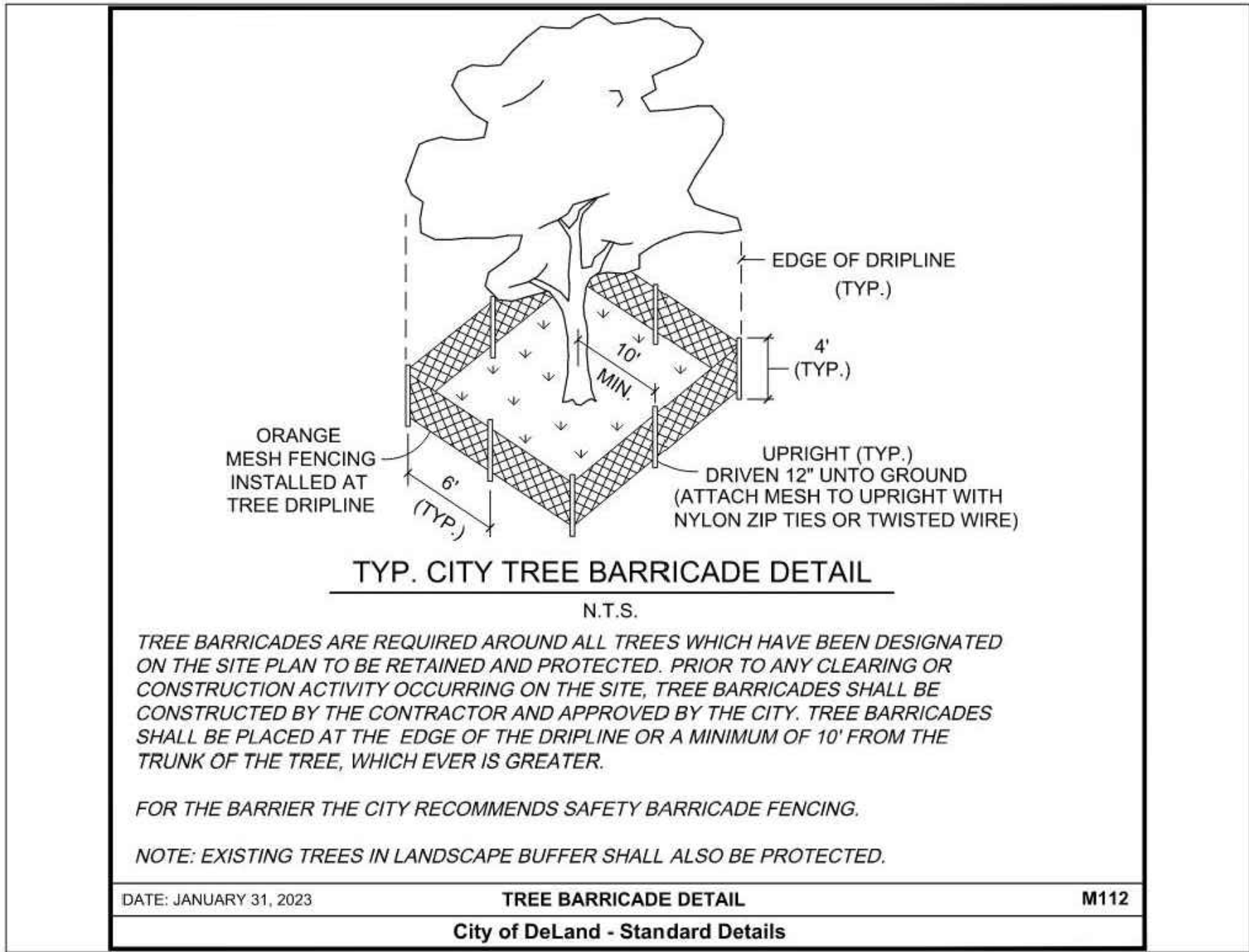
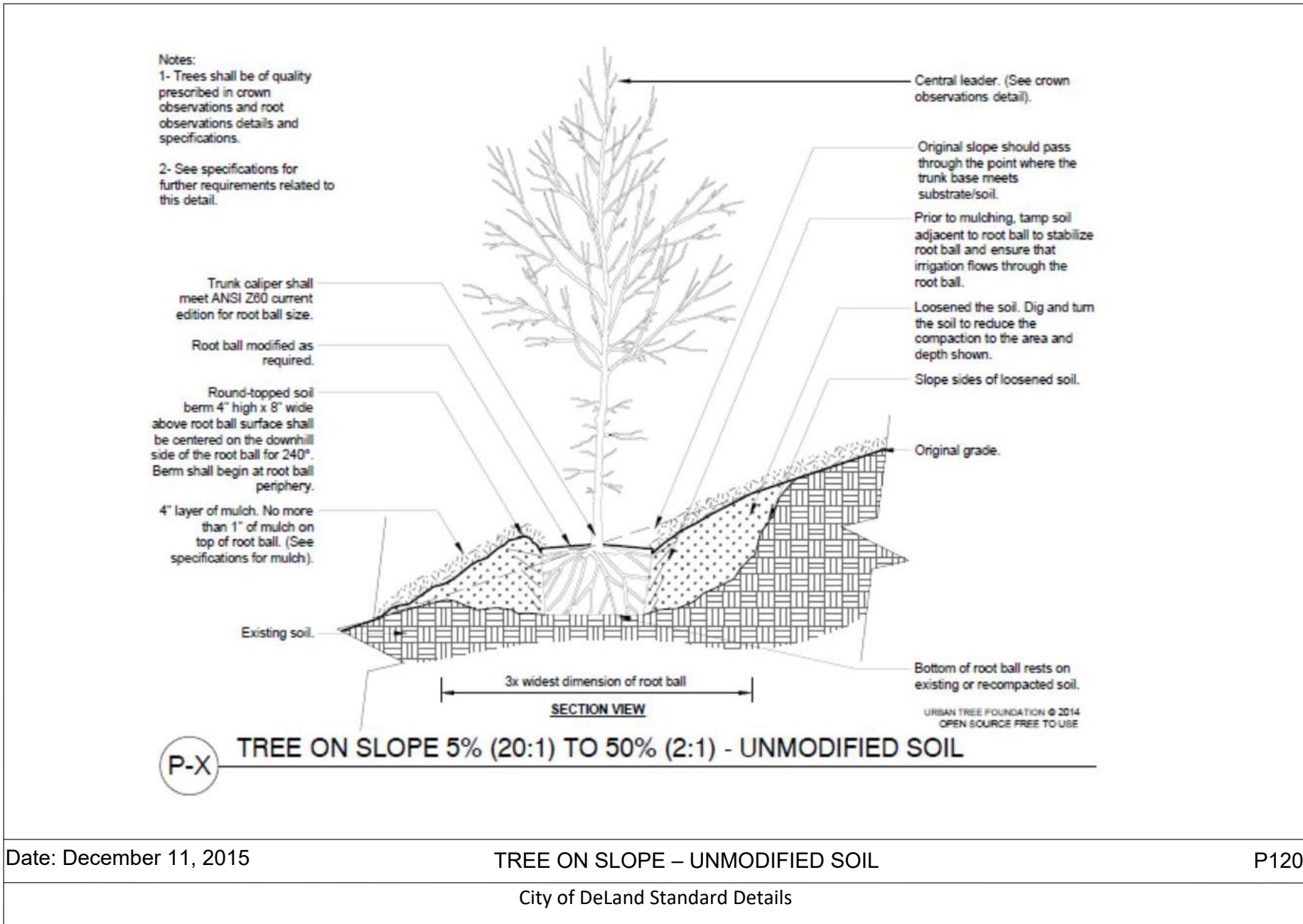
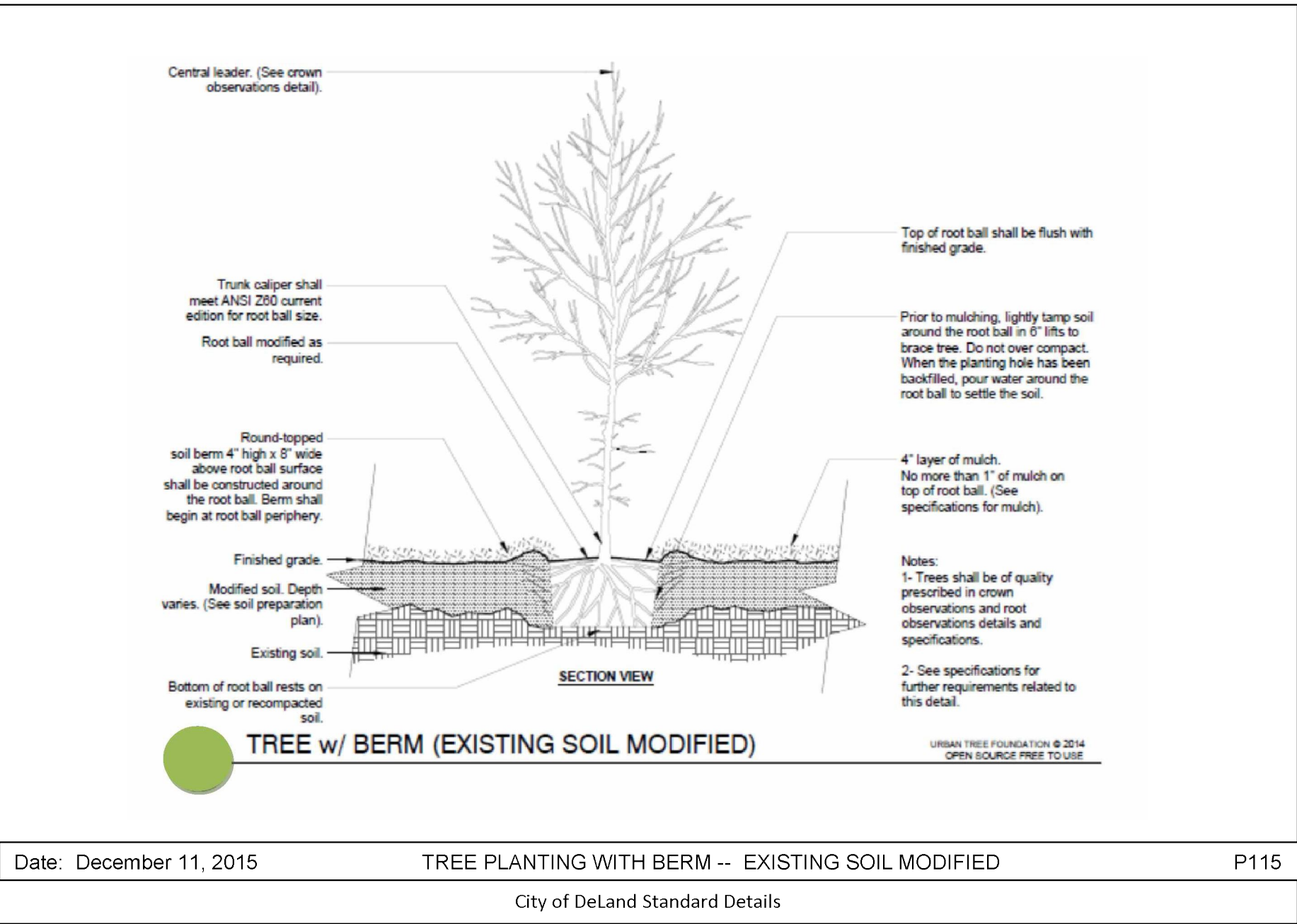
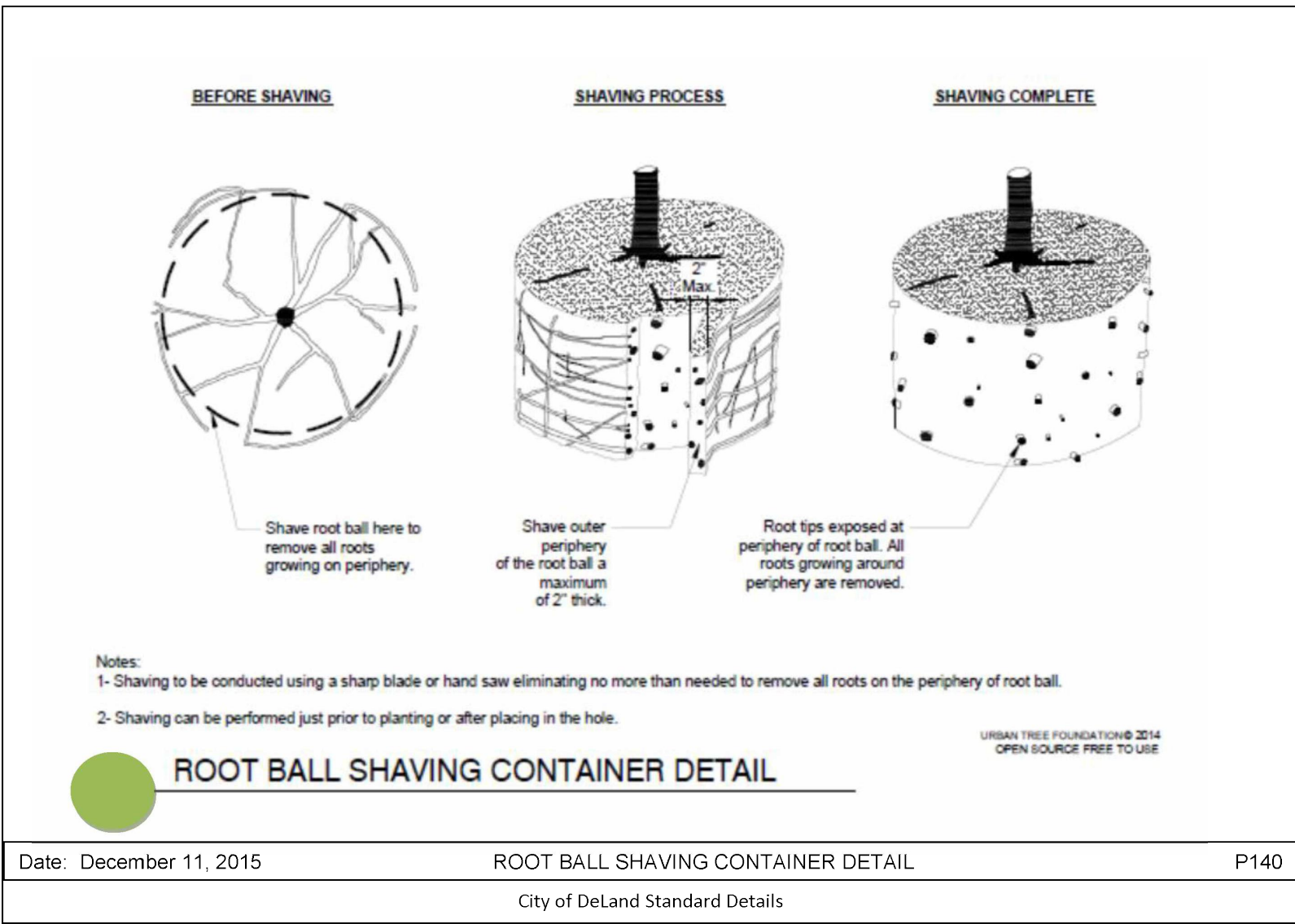
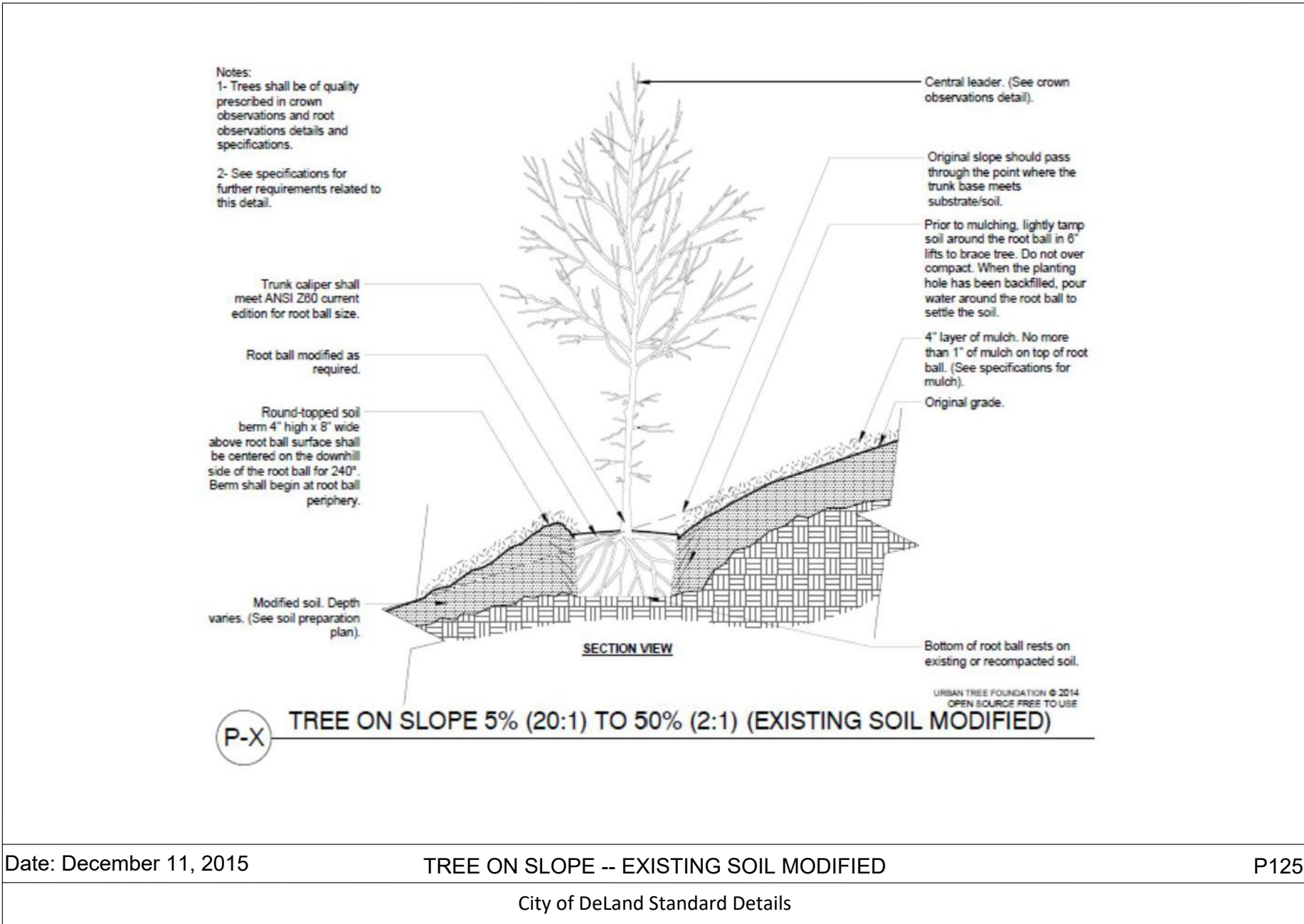
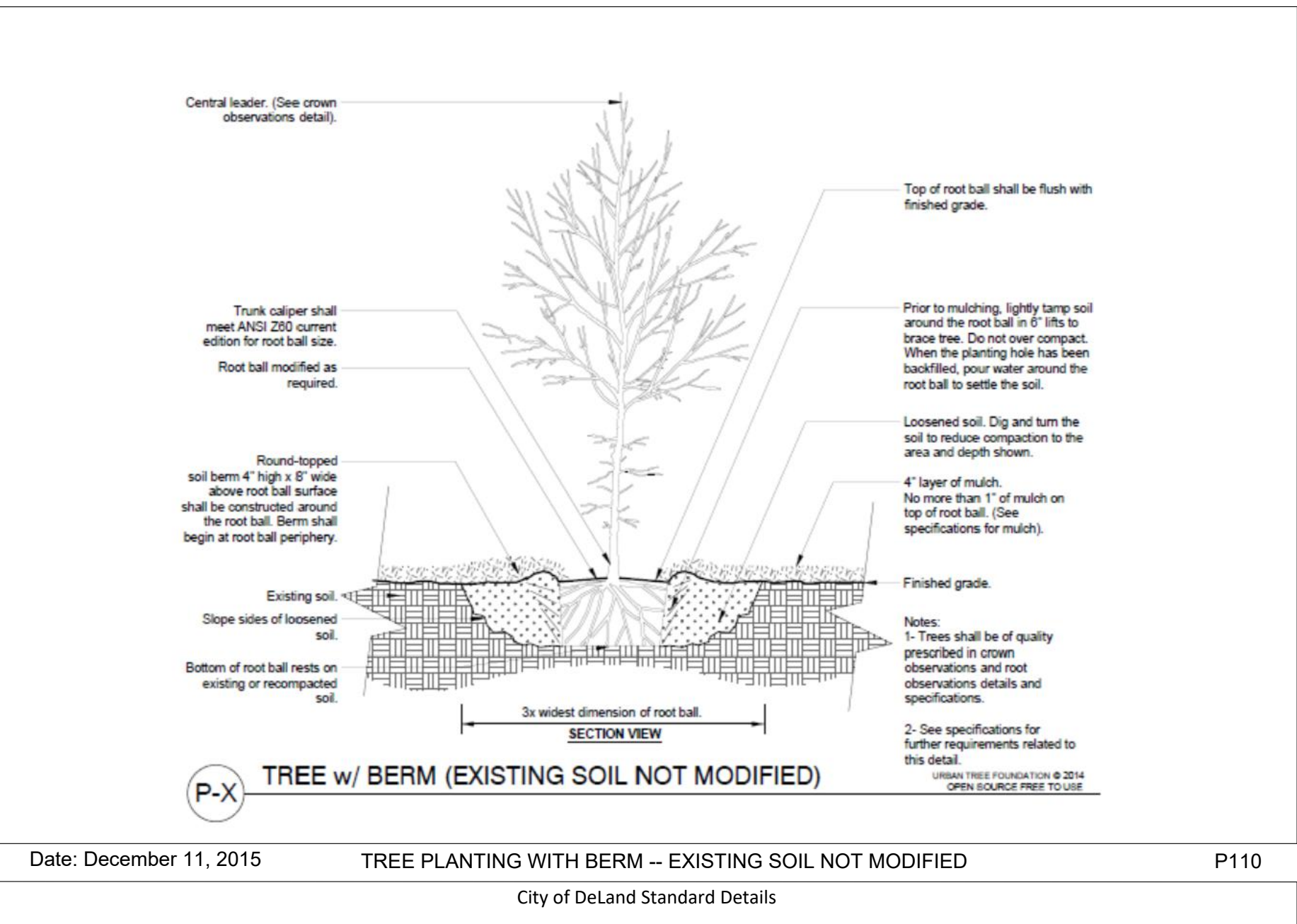








X:\MWE Projects\Meadowlea MHP\2022-04 Meadowlea Village Ph. 4-7.dwg 3/26/2023 1:07 PM



MINIMUM TREE PLANTING SIZE PER CITY OF  
DELAND MUNICODE SEC.33-57.05(b)2

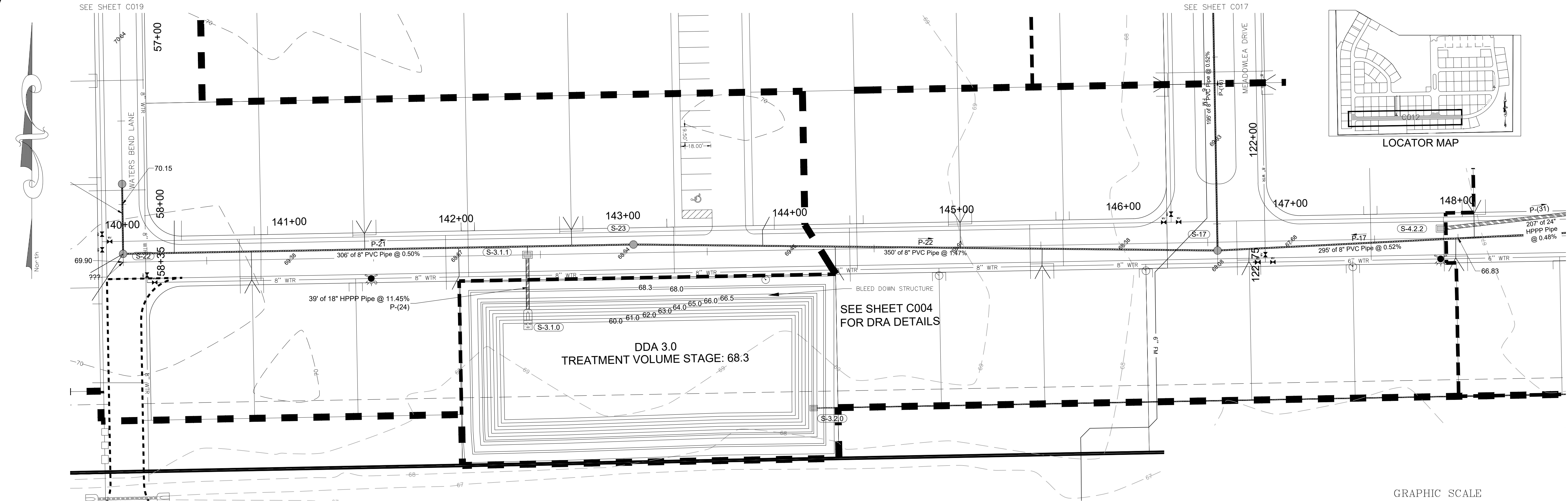
Michael W. Radcliffe Engineering, Inc.  
281 S.E. Lake Wales Avenue  
Lake Wales, FL 34421  
Phone: 888-666-6666  
Fax: 888-666-6666  
www.radcliffeengineering.com

Project Name: Meadowlea Village Ph. 4&5  
Sheet Name: Landscape Details

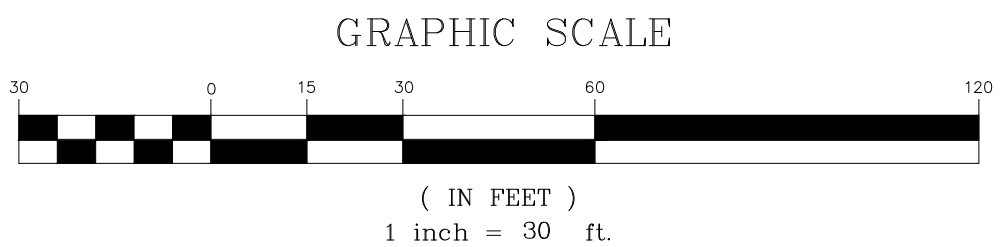
Sheet No.  
C010  
of  
C021



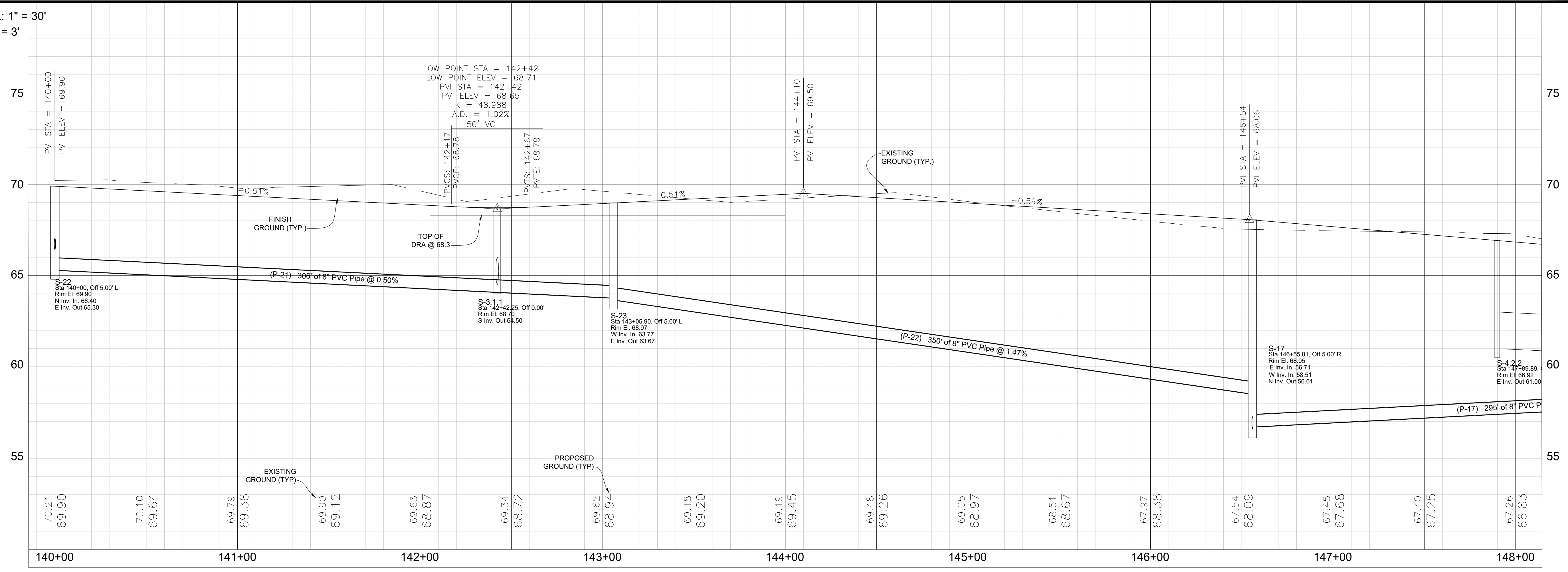
X:\MWR Projects\Meadowlea Village Ph. 4\DWG\CADD\Meadowlea Village Ph. 4.dwg 3/28/2023 1:12 PM



## MAHOGANY BEND DRIVE (30' WIDE R/W)



HORIZONTAL: 1" = 30'  
VERTICAL: 1" = 3'



|               |                                       |
|---------------|---------------------------------------|
| Project Name: | Meadowlea Village Ph. 4&5             |
| Sheet Name:   | Plan / Profile<br>Mahogany Bend Drive |
| Sheet No.:    | C012<br>of<br>C021                    |

|           |                               |          |            |
|-----------|-------------------------------|----------|------------|
| Designed: | MWR                           | Scale:   | 1" = 30'   |
| Drawn:    | BIL                           | Project: | 2022-04    |
| Checked:  | MWR                           | Date:    | 10-14-2022 |
| File:     | Meadowlea Village Ph. 4-7.dwg |          |            |

|          |  |       |         |     |     |              |                       |
|----------|--|-------|---------|-----|-----|--------------|-----------------------|
| Revised: |  | Date: | 3/27/23 | By: | BIL | Revised Per: | Q1 OF DELAND COMMENTS |
|----------|--|-------|---------|-----|-----|--------------|-----------------------|

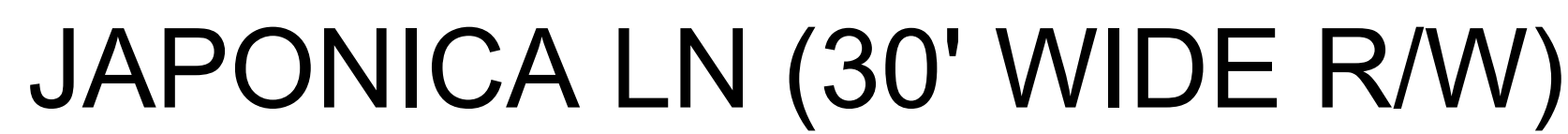
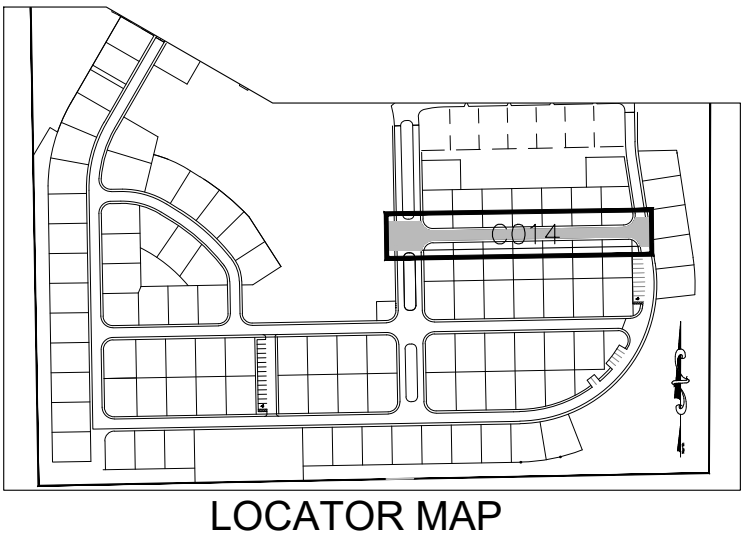
**MICHAEL W. RADCLIFFE ENGINEERING, INC.**  
2611 S.E. Lake View Avenue, Ocala, FL 34471 (352) 624-3500 FAX (352) 624-1010  
Certificate No. EB-0006188 - Michael W. Radcliffe P.E. #31170 Christopher A. Cole P.E. #6568  
www.mradcliffeengineering.com

COPYRIGHT © 2023 Michael W. Radcliffe Engineering, Inc. All Rights Reserved.







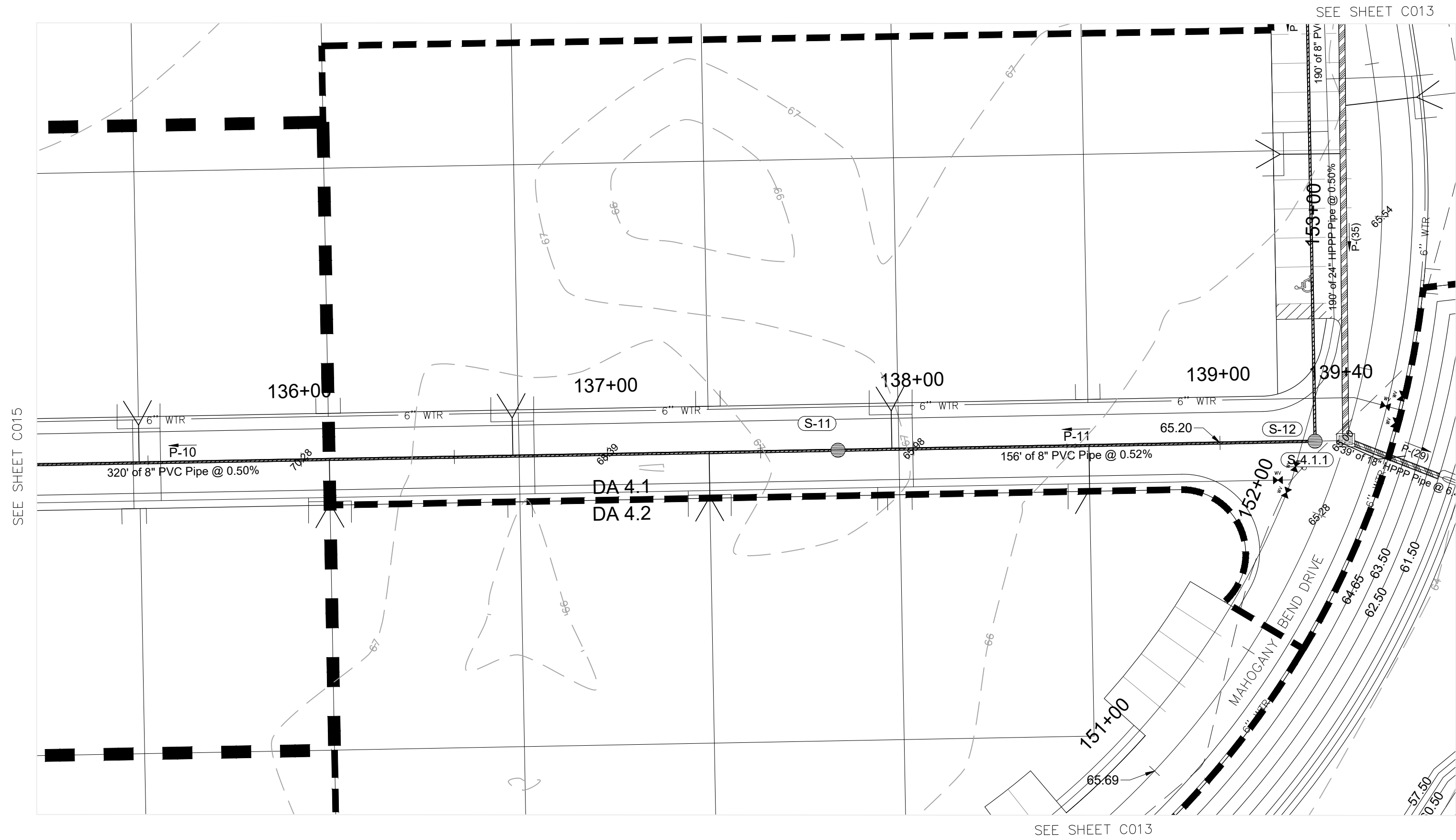
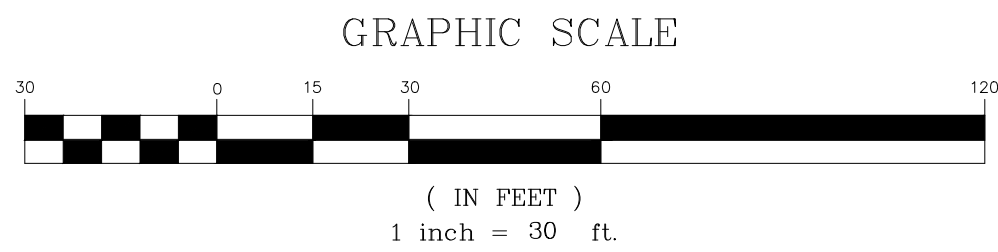
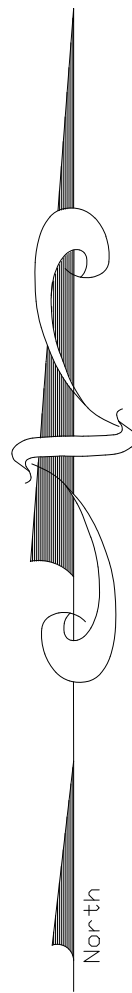






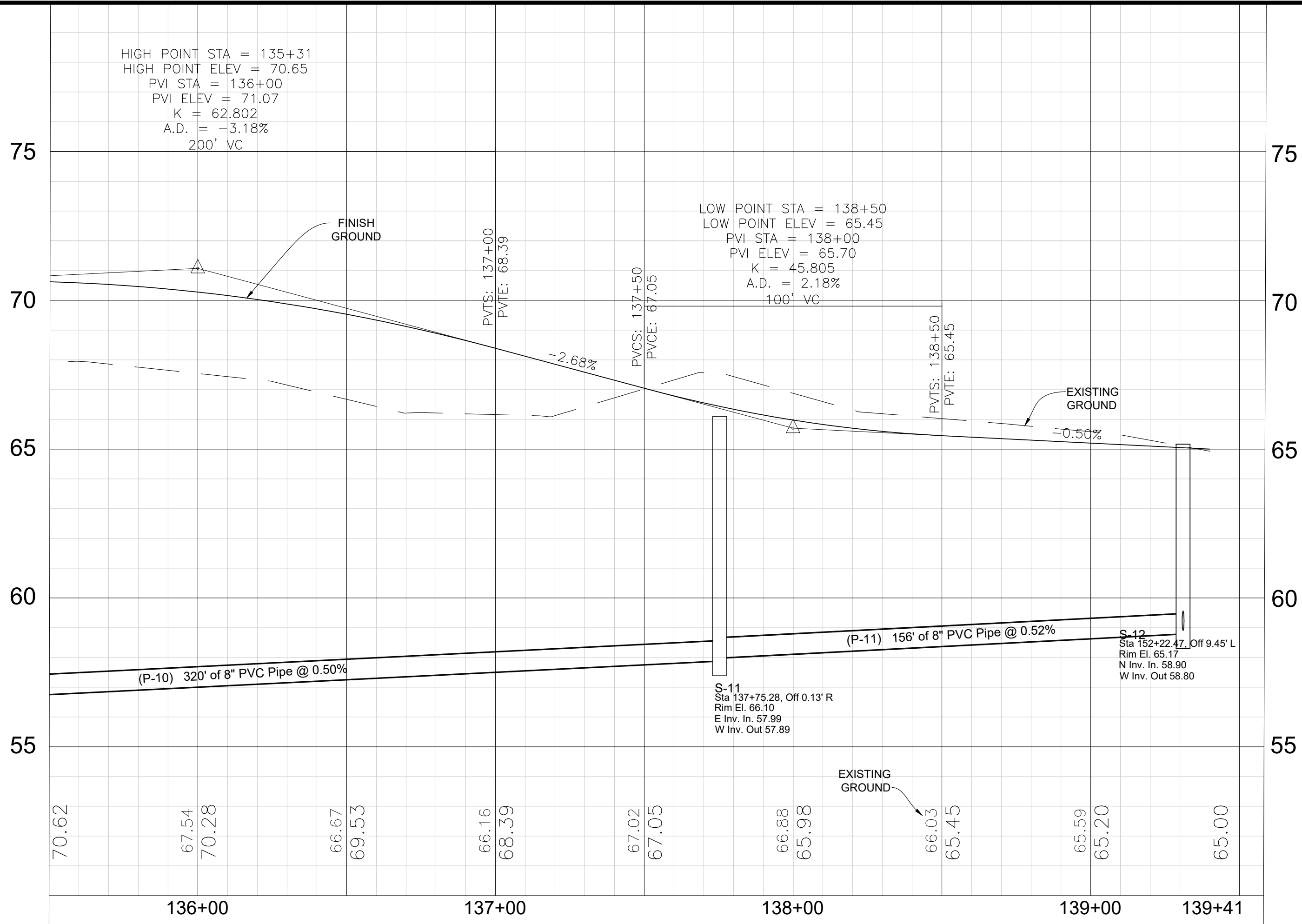


X:\MWR Projects\Meadowlea Village Ph. 4\DWG\CADD\Meadowlea Village Ph. 4.dwg 3/20/2023 1:18 PM



## PEARL SUNSET DRIVE (30' WIDE R/W)

HORIZONTAL: 1" = 30'  
VERTICAL: 1" = 3'



Project Name: Meadowlea Village Ph. 4&5

Sheet Name: Plan / Profile  
Pearl Sunset Drive

Sheet No.  
C016  
of  
C021



**MICHAEL W. RADCLIFFE ENGINEERING, INC.**

2811 S.E. Lake View Avenue, Ocala, FL 34471 (352) 639-5500 • FAX (352) 639-1010  
Certificate No. EB-0006198 • Michael W. Radcliffe P.E. #31170 Christopher A. Gwin P.E. #85588  
www.w.radcliffeengineering.com

Designed: MWR

Drawn: BIL

Checked: MWR

File: Meadowlea Village Ph. 4-7.dwg

Scale: 1" = 30'

Project: 2022-04

Date: 10-14-2022

Date: 3/27/23

By: BIL

Revised: REVISED PER QIT OF DELAND COMMENTS

Copyright © 2023 Michael W. Radcliffe Engineering, Inc. All Rights Reserved.

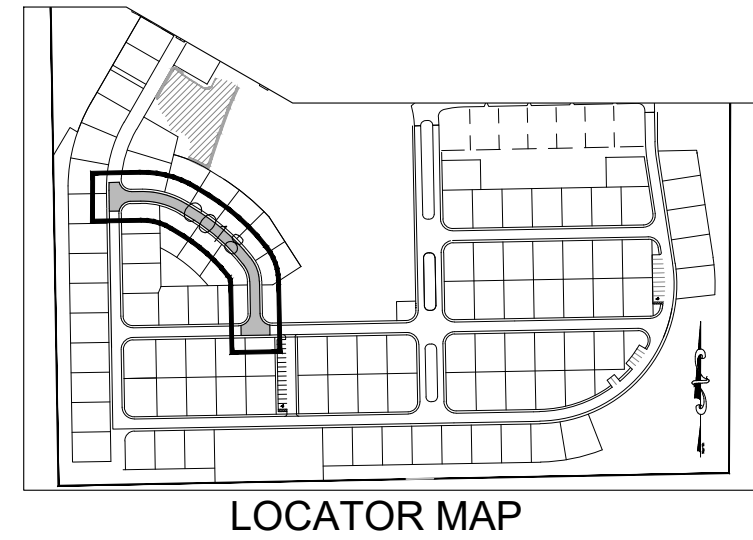
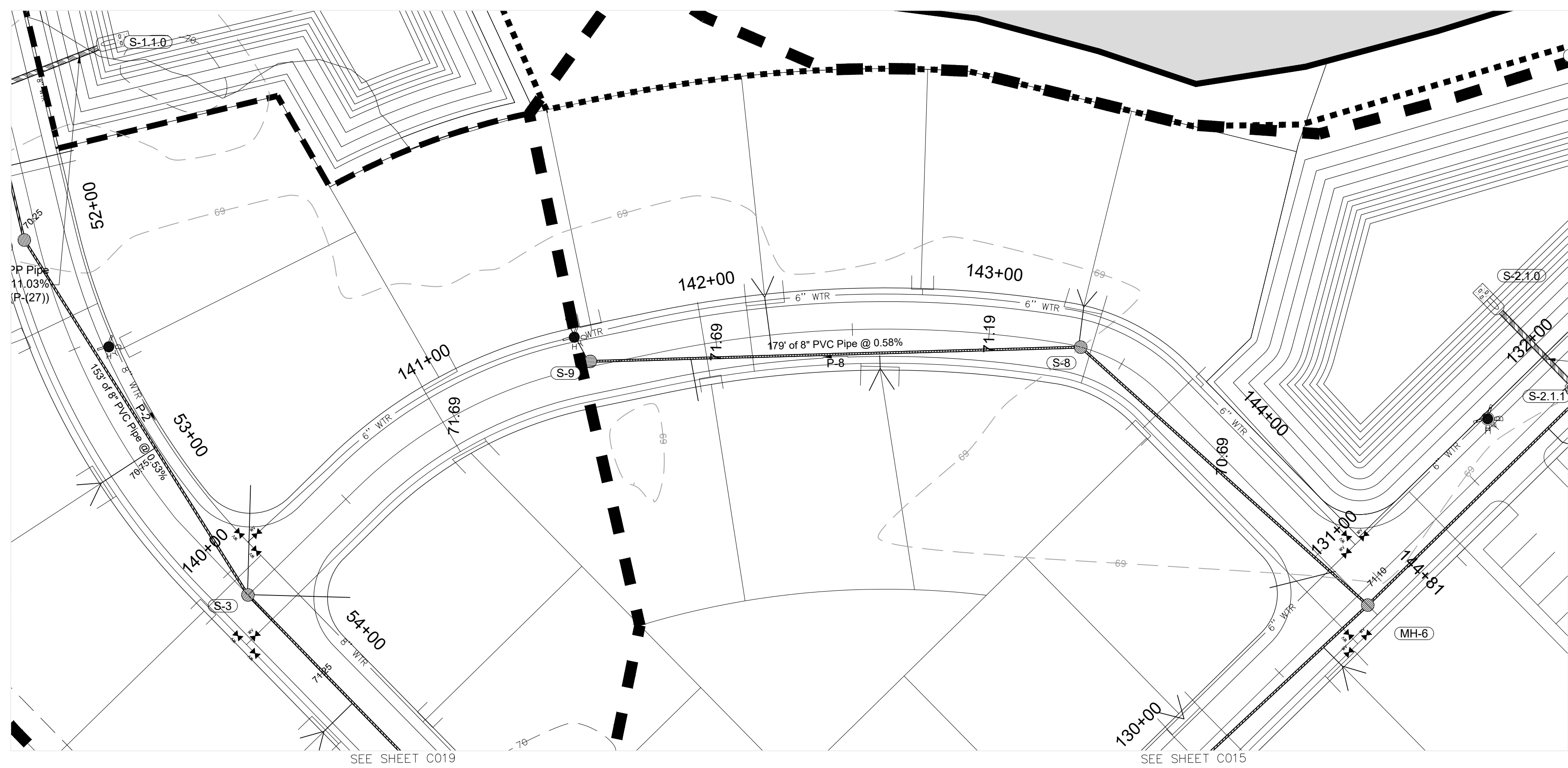
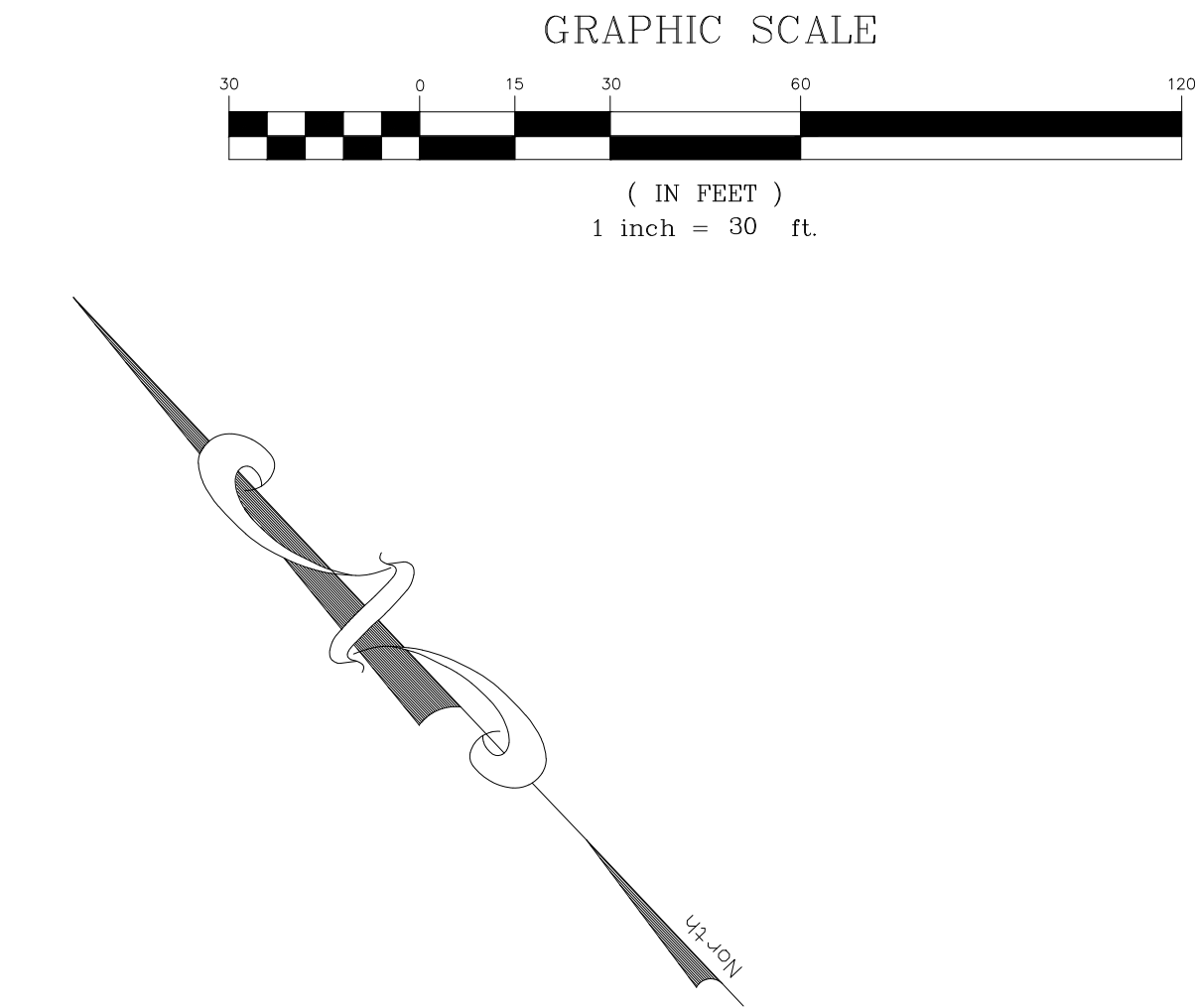
Page 75 of 214





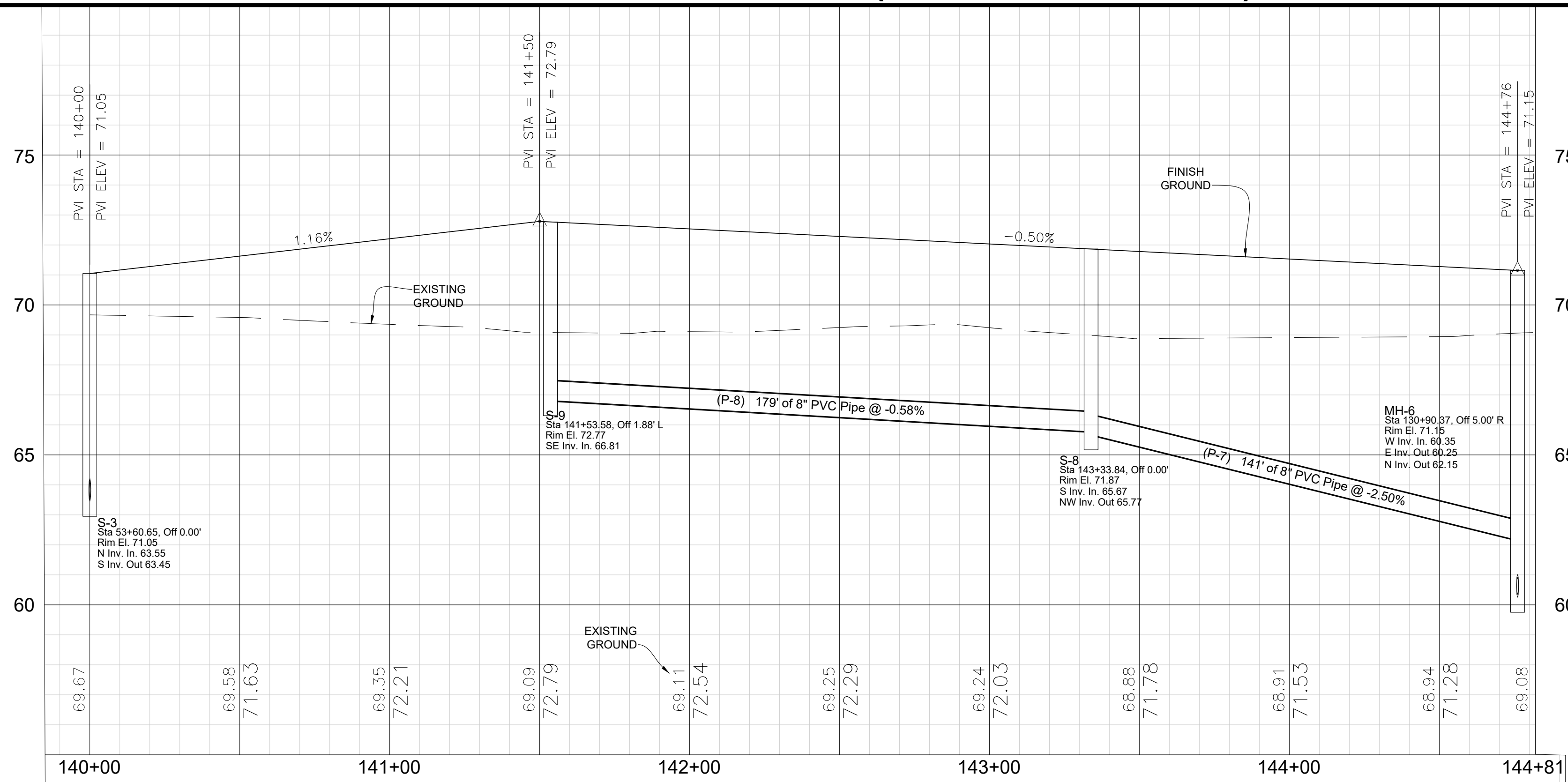


X:\MWR\Projects\Meadowles Village Ph. 4\DWG\CADD\Meadowles Village Ph. 4.dwg 3/28/2023 3:22 PM



## PALM WARBLER PATH (30' WIDE R/W)

HORIZONTAL: 1" = 30'  
VERTICAL: 1" = 3'



Project Name: Meadowles Village Ph. 4&5  
Sheet Name:  
Plan / Profile  
Palm Warbler Path

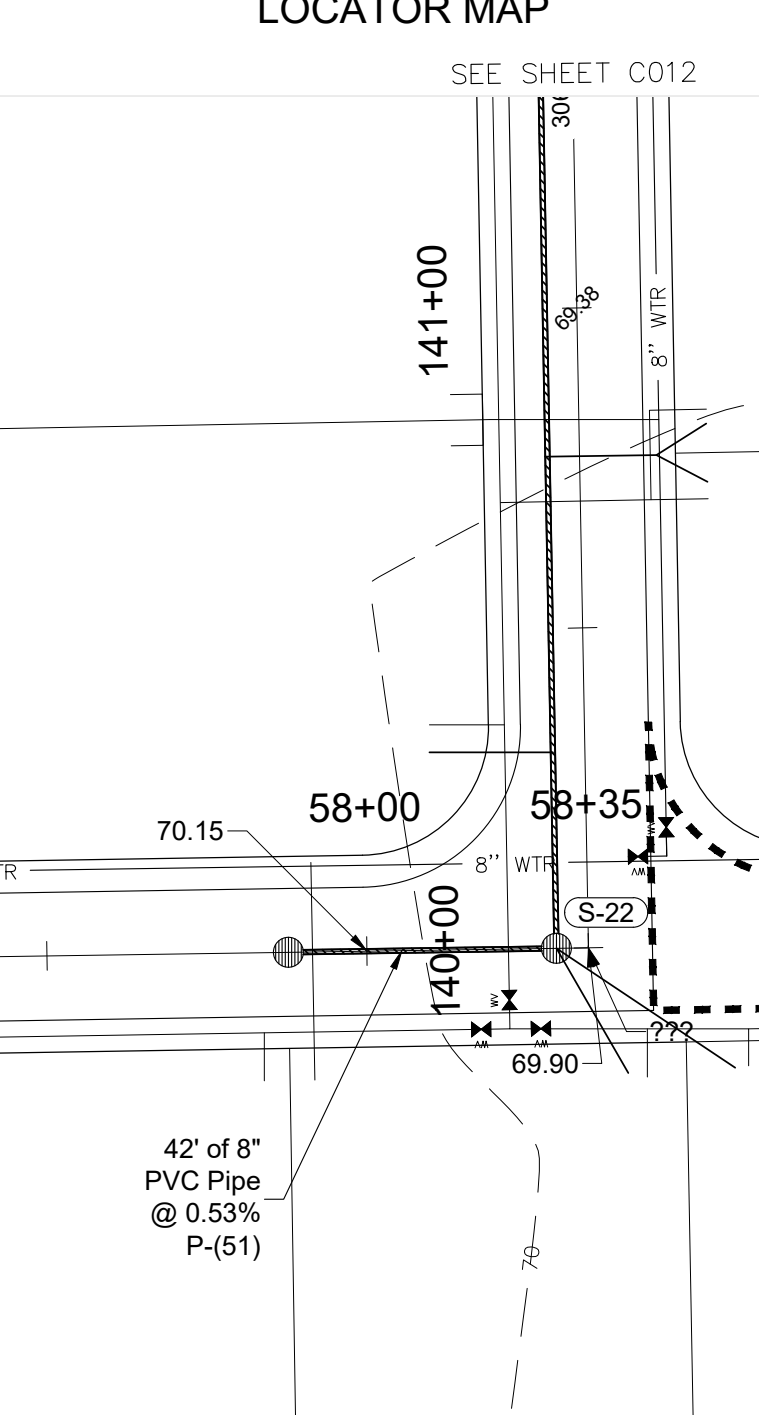
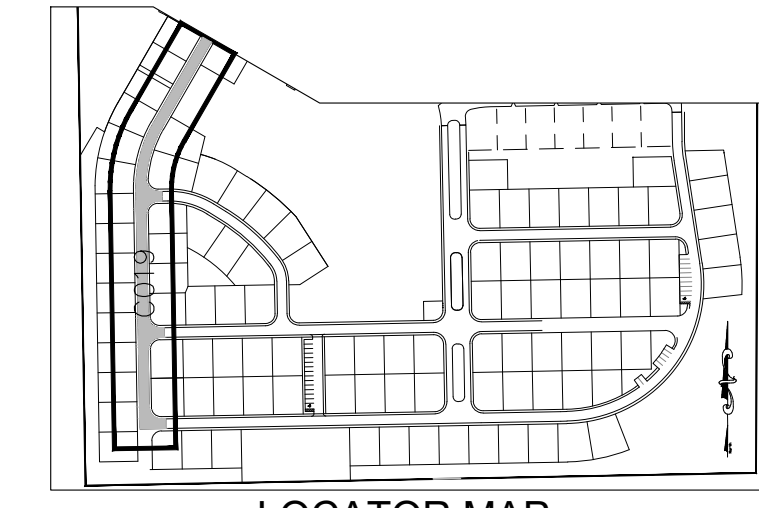
Sheet No.  
C018  
of  
C021

**MICHAEL W. RADCLIFFE ENGINEERING, INC.**  
2811 S.E. Lake View Avenue, Ocala, FL 34471 (352) 639-5500 FAX (352) 639-1010  
Certificate No. EB-0006198 - Michael W. Radcliffe P.E. #31170 Christopher A. Gwin P.E. #65588  
www.mradcliffeengineering.com

|                                     |                  |                  |                                    |
|-------------------------------------|------------------|------------------|------------------------------------|
| Designed: MWR                       | Scale: 1" = 50'  | By: BIL          | Revised: 3/27/23                   |
| Drawn: BIL                          | Project: 2022-04 | Date: 10-14-2022 | Revised Per: Q1 OF DELAND COMMENTS |
| Checked: MWR                        | Drawn: MWR       | Date: 10-14-2022 |                                    |
| File: Meadowles Village Ph. 4-7.dwg |                  |                  |                                    |

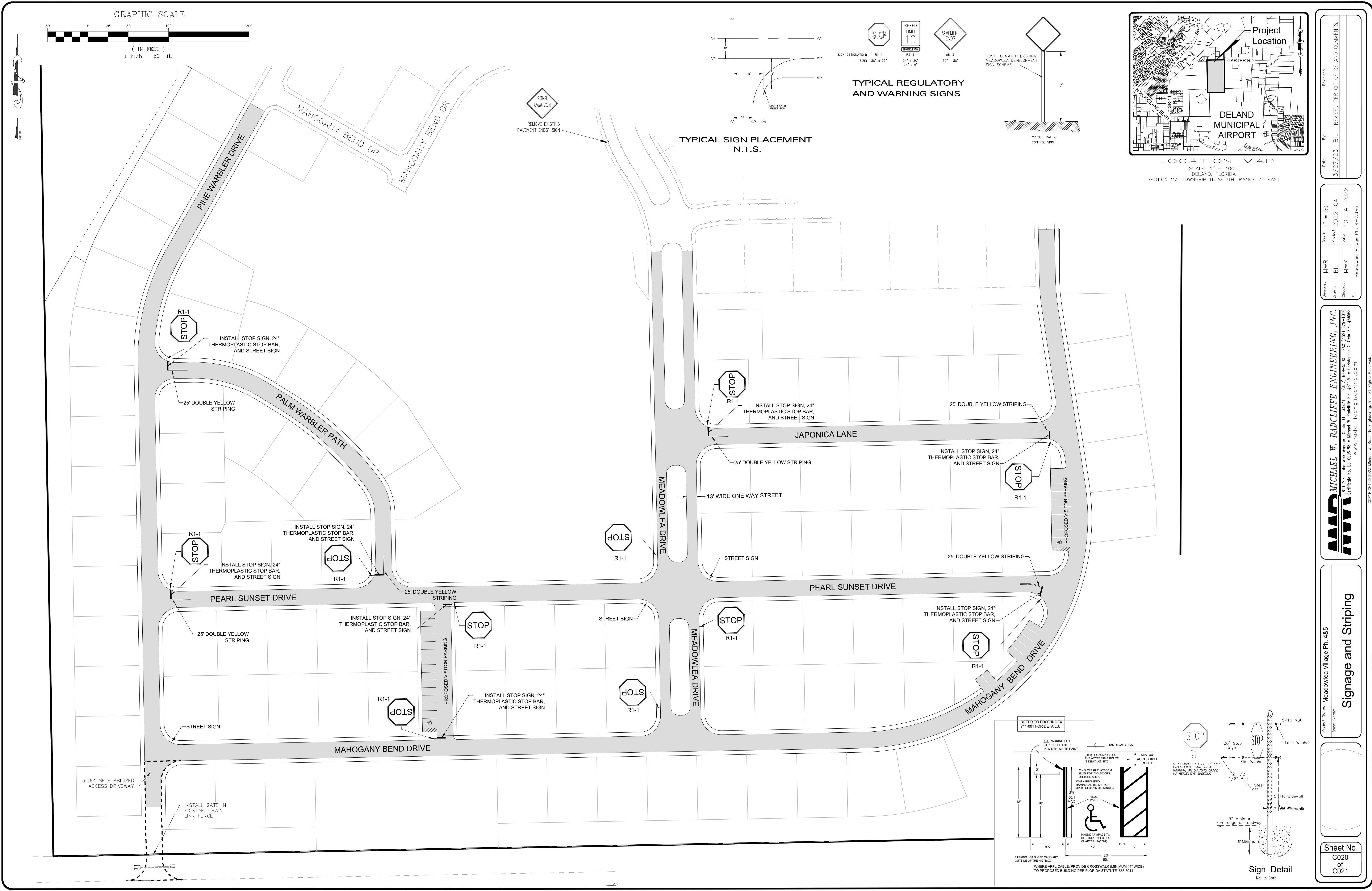
Copyright © 2023 Michael W. Radcliffe Engineering, Inc. All Rights Reserved.







X:\MWR\Projects\Meadowlea\Map\2022-04 Meadowlea Village Ph. 4.dwg 3/28/2023 1:23 PM



|                                                                              |                               |
|------------------------------------------------------------------------------|-------------------------------|
| Project Name: Meadowlea Village Ph. 4&5                                      |                               |
| Sheet Name: Signage and Striping                                             |                               |
| Sheet No: C020 of C021                                                       |                               |
| Revisions:                                                                   | By:                           |
| Date:                                                                        | 3/27/23                       |
| Drawn:                                                                       | BIL                           |
| Checked:                                                                     | MWR                           |
| File:                                                                        | Meadowlea Village Ph. 4-7.dwg |
| Scale:                                                                       | 1" = 50'                      |
| Project:                                                                     | 2022-04                       |
| Date:                                                                        | 10-14-2022                    |
| Copyright © 2023 Michael W. Radcliffe Engineering, Inc. All Rights Reserved. |                               |

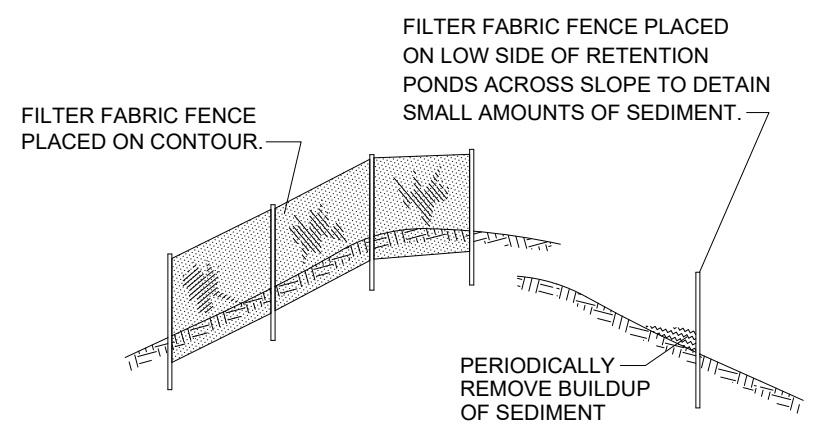
**MICHAEL W. RADCLIFFE ENGINEERING, INC.**  
2811 S.E. Lake Weir Avenue, Ocala, FL 34477  
(352) 628-5500 FAX (352) 628-1015  
www.mradcliffeengineering.com  
Certificate No. EB-5006198 • Michael W. Radcliffe P.E. #5170 • Christopher A. Gwin P.E. #5558



X:\MWR\Projects\Meadowlea MHP\2022-04 Meadowlea Village Ph. 4-7\Design\CAD\Meadowlea Village Ph. 4-7.dwg 3/28/2023 3:25 PM

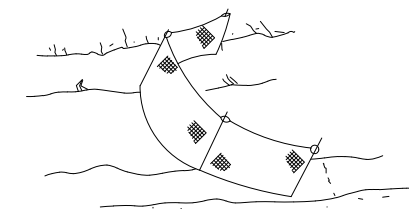
LEGEND:

- PROP D.D.A. 2.0 DRAINAGE RETENTION AREA
- SILT FENCE LOCATION
- INLET PROTECTION

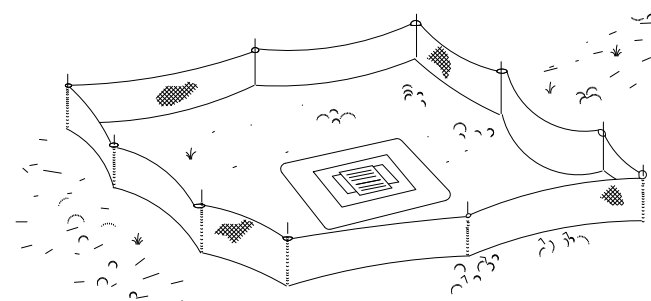


1. FILTER FABRIC FENCE SHALL BE EMBEDDED IN THE SOIL A MIN. OF 4".
2. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
3. FILTER FABRIC FENCE SHALL BE REMOVED WHEN IT HAS SERVED ITS USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

SILT FENCE DETAIL  
Not to Scale



SILT FENCE PROTECTION  
IN DITCHES WITH INTERMITTENT FLOW  
Not to Scale



SILT FENCE PROTECTION  
IN DITCHES WITH INTERMITTENT FLOW  
Not to Scale

EROSION  
CONTROLS & BEST  
MANAGEMENT  
PRACTICES (BMP's)

General Notes:

1. A copy of the Notice of Intent (NOI) or letter from the Department of Environmental Protection (DEP) confirming coverage under this Generic Permit shall be posted at the construction site in a prominent place for public viewing (such as alongside a building permit).
2. The discharge of hazardous substances or oil in the stormwater discharge(s) from a facility or activity shall be prevented or minimized in accordance with the applicable stormwater pollution prevention plan for the facility or activity.
3. The permittee shall provide for compliance with the terms and schedule of this plan beginning with the initiation of construction activities.
4. Permittee shall adhere to the State of Florida DEP Generic Permit for Stormwater Discharge from Large and Small Construction Activities.
5. Preserve existing vegetation where attainable and stabilize disturbed portions of the site to prevent erosion. Stabilization measures include permanent seeding, sod, preservation of existing mature vegetation and protection of existing trees. Stabilization measures shall be initiated as soon as practicable, but in no case more than 7 days, in portions of the site where construction activities have temporarily or permanently ceased.
6. Each plan shall include a description of structural practices, to divert flows from exposed soils, store flows, retain sediment on-site, or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Such practices may include silt fences, swales, check dams, storm drain inlet protection, permanent sediment basins or Drainage Retention Areas (D.R.A.'s).
7. Construct temporary Sediment Control Basins at each point of discharge into D.R.A.'s.
8. Controls for Other Potential Pollutants.
  - (1) Waste Disposal. The plan shall assure that waste, such as discarded building materials, chemicals, litter, and sanitary waste are properly controlled in accordance with all applicable state, local, and federal regulations. This permit does not authorize the discharge of solid materials, including building materials, to surface waters of the State or an Municipal Separate Storm Sewer System (MS4).
  - (2) The plan shall assure that off-site vehicle tracking of sediments and the generation of dust is minimized.
  - (3) The plan shall be consistent with applicable State and local waste disposal, sanitary sewer or septic system regulations.
  - (4) The plan shall address the proper application rates and methods for the use of fertilizers, herbicides and pesticides at the construction site and set forth how these procedures will be implemented and enforced. Nutrients shall be applied only at rates necessary to establish and maintain vegetation.
  - (5) The plan shall ensure that the application, generation, and migration of toxic substances is limited and that toxic materials are properly stored and disposed.
9. **A qualified inspector (provided by the operator) shall inspect all points of discharge into surface waters of the State or a Municipal Separate Storm Sewer System (MS4); disturbed areas of the construction site that have not been finally stabilized; areas used for storage of materials that are exposed to precipitation; structural controls; and, locations where vehicles enter or exit the site, at least once every seven calendar days and within 24 hours of the end of a storm that is 0.50 inches or greater in accordance with the Generic Permit.**
10. The permittee shall retain copies of stormwater pollution prevention plans and all reports required by this permit, and records of all data used to complete the NOI to be covered by this permit, for a period of at least three years from the date that the site is finally stabilized.
11. The permittee shall retain a copy of the stormwater pollution prevention plan and all reports, records and documentation required by this permit at the construction site, or an appropriate alternative location as specified in the NOI, from the date of project initiation to the date of final stabilization.
12. The permittee shall submit a completed Notice of Termination (NOT) (DEP Form 62-621.300(6)), signed in accordance with Part VII.C. of this permit, within 14 days of final stabilization of the site to terminate coverage under this permit.
13. A permittee shall submit a NOI to the following address:

NPDES Stormwater Notices Center, MS# 2510  
Florida Department of Environmental Protection  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400
14. Projects that discharged stormwater associated with construction activity to a MS4 shall submit a copy of the NOI to the operator of the MS4.

Notes:

1. All existing storm water drainage patterns and channels outside the construction areas shown on these plans are to be maintained. The contractor shall notify the engineer if the work appears to interrupt an existing storm water drainage pattern. The contractor shall maintain a clear path for all surface water drainage structures and ditches during all phases of construction such that impact to construction and/or surrounding facilities is minimized. The contractor shall be responsible for any erosion, sediment transport, disturbed foundations, impact to structures, and any other damage caused during construction.
2. The contractor shall prevent the discharge of sediment due to construction operations. Approved erosion control devices shall be installed to prevent discharge of sediment into a dry or wet watercourse. Recommended erosion control shall consist of silt fence, or other erosion control methods as shown or approved by the project engineer. All new and existing drain pipes and structures shall be flushed clean after construction.
3. Provide erosion control blanket for all slopes 2:1 (horizontal to vertical) or steeper.
4. Swales and disturbed areas shall be sodded or seeded and mulched as soon as practical.
6. Should additional erosion and sedimentation controls be needed, then the contractor needs to prevent the discharge of turbid waters off the project site.
7. This plan provides reasonable assurance that the proposed construction activities will not result in erosion and sediment deposition in wetlands or off-site, adverse impacts to wetlands, off-site flooding or violation of water quality standards.

Project Information:

1. This plan is intended for use in conjunction with the Major Site Plan for this project.
2. The construction activities on this site consist of and will be performed in the following order: clearing and grubbing, excavation of the proposed roadway and drainage, construct improvements.
3. The estimated project area is 22.31 acres. The area to be disturbed by construction is 22.31 acres.
4. The topography of the area is gently sloping to sloping and naturally delineates the drainage basins as shown on the Predevelopment Plan and Drainage Plan. Existing soils are 100% Candler Sand, a type "A" hydrologic soil, which is well-drained to excessively drained sand according to the National Resource Conservation Service (NRCS) classification.

Stabilization Schedule:  
(Required to be completed by Contractor)

Major Construction Activities:  
Start Date \_\_\_\_\_  
End Date \_\_\_\_\_

Cease Construction Activities:  
Temporary Dates \_\_\_\_\_

Permanent Date \_\_\_\_\_

Date that Stabilization Measures  
were Initiated: \_\_\_\_\_

Note: Install erosion control features prior  
to any construction activities on this site.

Permittee's Certification:

The undersigned ensures that the surface water and stormwater management measures proposed in the plan will be effectively implemented until completion of the project or until the permanent surface water management system is operational.

Signature \_\_\_\_\_ Date \_\_\_\_\_  
Print Name \_\_\_\_\_  
Address \_\_\_\_\_  
Phone Number \_\_\_\_\_

Contractor's Certification:

"I certify under penalty of law that I understand, and shall comply with, the terms and conditions of the State of Florida Generic Permit for Stormwater Discharge from Large and Small Construction Activities and this Stormwater Pollution Prevention Plan prepared thereunder."

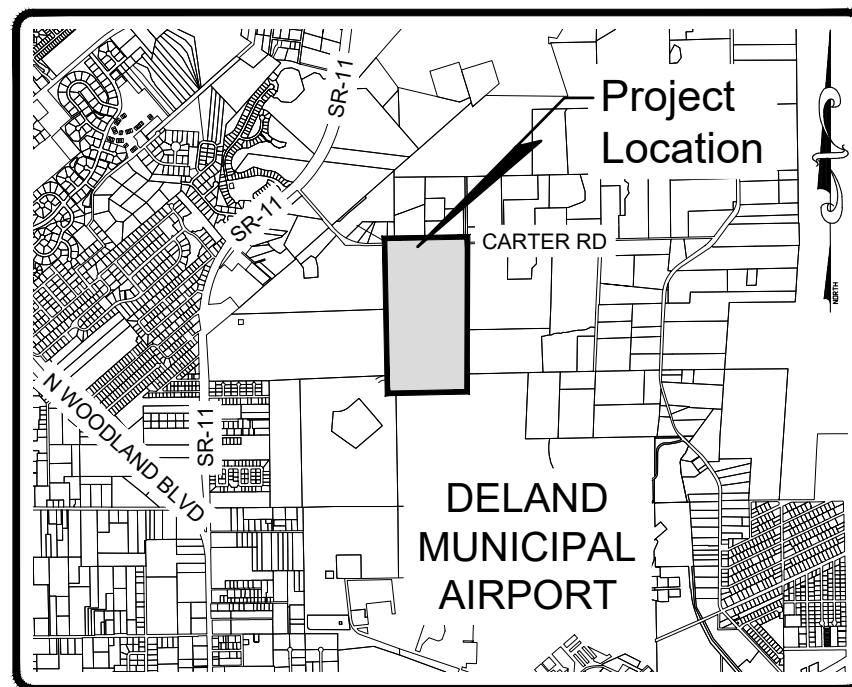
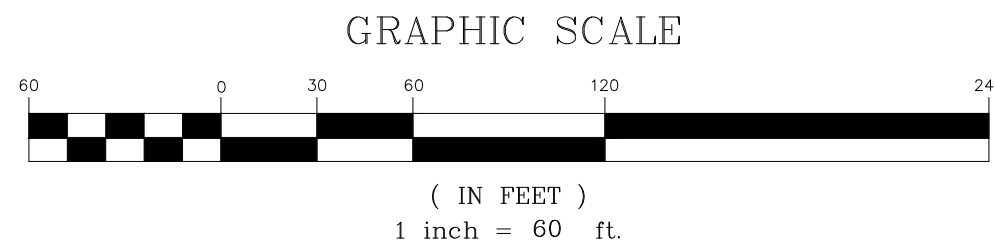
Signature \_\_\_\_\_ Date \_\_\_\_\_  
Print Name \_\_\_\_\_  
Address \_\_\_\_\_  
Phone Number \_\_\_\_\_

INFORMATION FOR ELECTRONICALLY SIGNED AND SEALED DOCUMENTS  
IF THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED IT USES A SHA-1 AUTHENTICATION CODE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA-1 AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.  
NOTWITHSTANDING, PRINTED COPIES ARE VALID IF PHYSICALLY SIGNED, DATED AND SEALED WITH THE ENGINEER'S EMBOSSED SEAL.

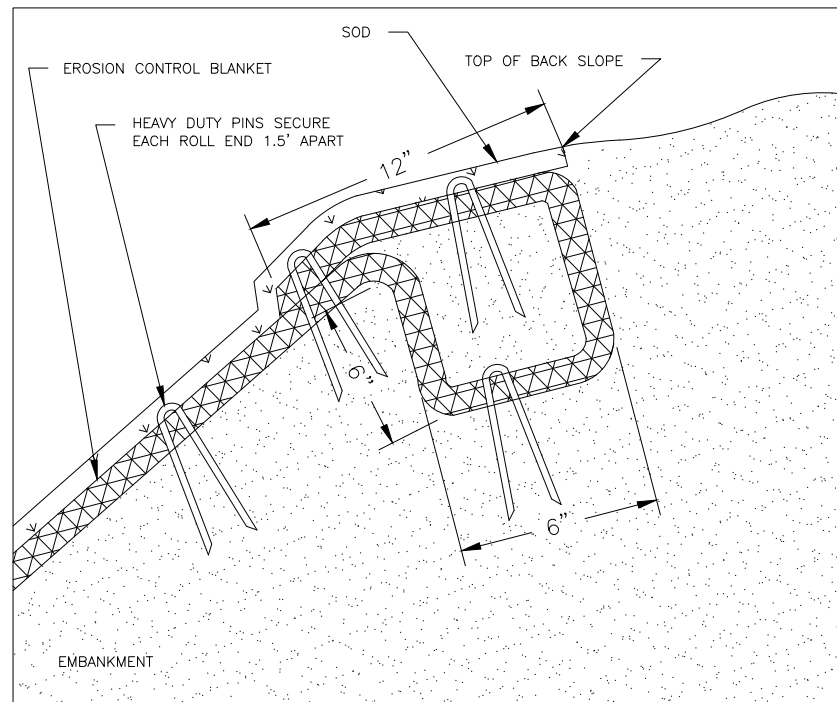
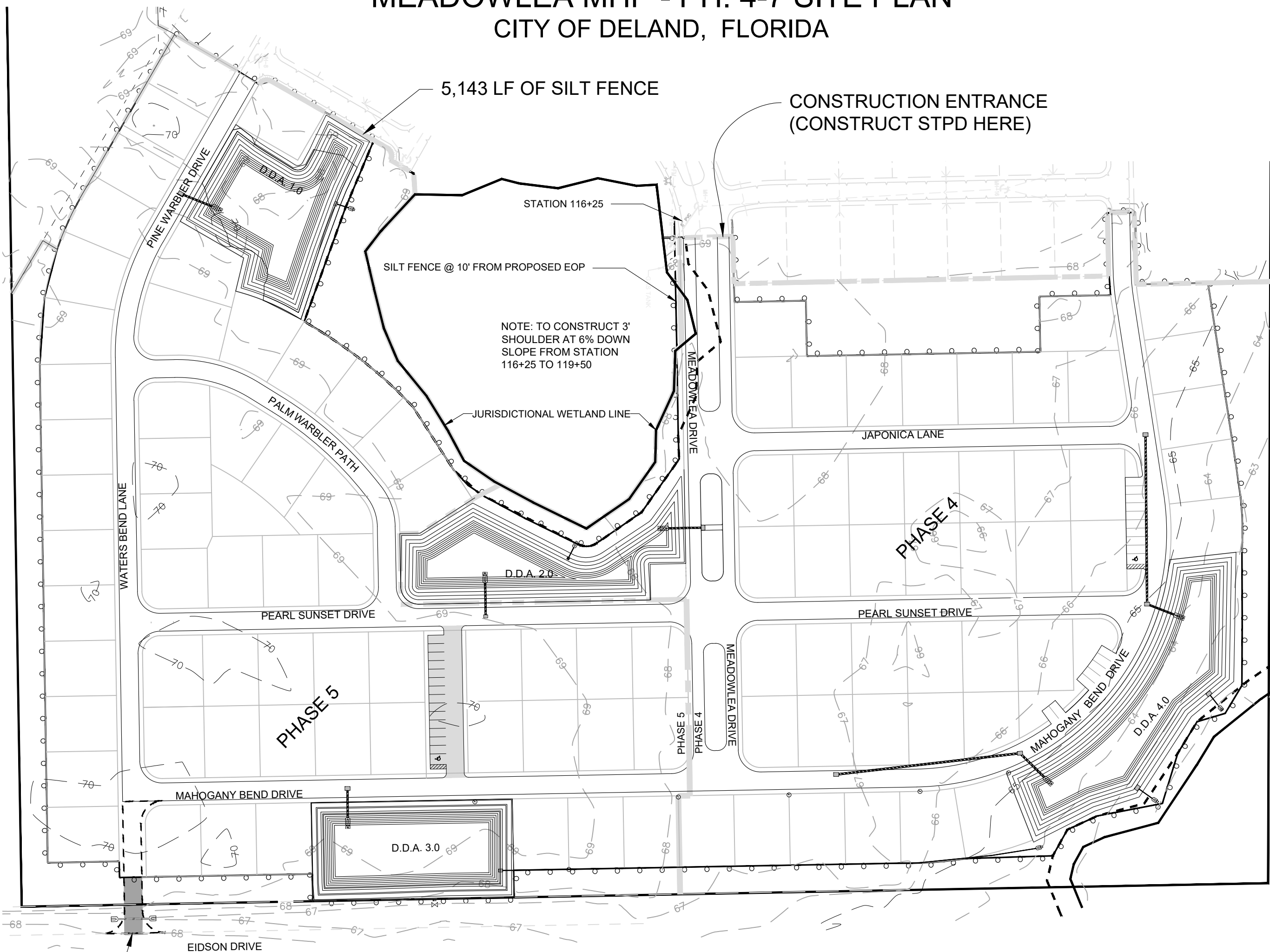


Meadowlea Village  
A COVE COMMUNITY

MEADOWLEA MHP - PH. 4-7 SITE PLAN  
CITY OF DELAND, FLORIDA



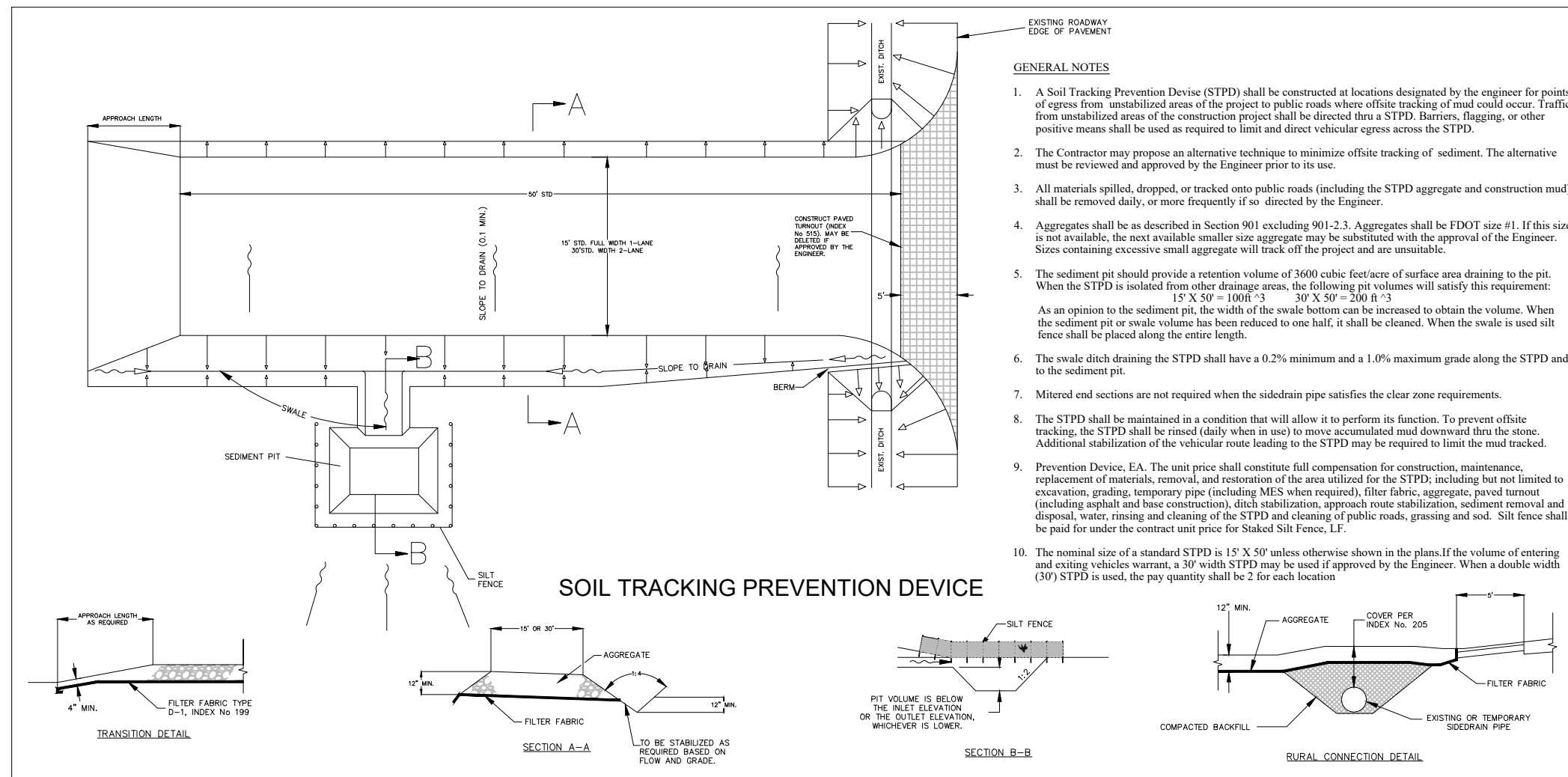
LOCATION MAP  
SCALE: 1" = 400'  
DELAND, FLORIDA  
SECTION 27, TOWNSHIP 16' SOUTH, RANGE 30 EAST



EROSION CONTROL BLANKET  
GROUND FASTENING DETAIL  
Not to Scale

INSTALL TOTAL OF 2,517 LF  
FABRIC SILT FENCE

CITY OF DELAND PROJECT  
No. SP22-211



GENERAL NOTES

1. A Soil Tracking Prevention Device (STPD) shall be constructed at locations designated by the engineer for points of access from unsurfaced areas of the project to public roads where off-site tracking of mud and soil could occur. Traffic from unsurfaced areas of the construction project shall be directed thru a STPD. Barriers, flagging, or other positive means shall be used as required to limit and direct vehicular access across the STPD.
2. The Contractor may propose an alternative technique to minimize off-site tracking of sediment. The alternative must be reviewed and approved by the Engineer prior to its use.
3. All materials spilled, dropped, or tracked onto public roads (including the STPD aggregate and construction mud) shall be removed daily, or more frequently if so directed by the Engineer.
4. Aggregates shall be as described in Section 901.2.3. Aggregates shall be 1/2" size #1. If this size is not available, the next available smaller size aggregate may be substituted with the approval of the Engineer. Sizes containing excessive small aggregate will track off the project and are unsuitable.
5. The sediment pit should provide a retention volume of 3600 cubic feet/acre of surface area draining to the pit. When the STPD is isolated from other drainage areas, the following pit volumes will satisfy this requirement:  
15' X 50' = 10000'³      30' X 50' = 2500'³  
As an option to the sediment pit, the width of the swale bottom can be increased to obtain the volume. When the sediment pit or swale volume has been reduced to one half, it shall be cleaned. When the swale is used as a silt fence shall be placed along the entire length.
6. The swale ditch draining the STPD shall have a 0.2% minimum and a 1.0% maximum grade along the STPD and to the sediment pit.
7. Matted and sections are not required when the sediment pipe satisfies the clear zone requirements.
8. The STPD shall be maintained in a condition that will allow it to perform its function. To prevent off-site tracking, the STPD shall be cleaned daily when in use to move accumulated mud downstream from the stone. Additional substitution of the vehicular route leading to the STPD may be required to limit the mud tracked.
9. Prevention Device, EA. The unit price shall constitute full compensation for construction, maintenance, replacement of materials, removal, and restoration of the area utilized for the STPD, including but not limited to excavation, grading, temporary pipe (including MES when required), filter fabric, aggregate, gravel turnover (including asphalt and base construction), ditch stabilization, approach grate stabilization, sediment removal area disposal, water, rising and cleaning of the STPD and cleaning of public roads, grading and soil. All stone shall be paid for under the contract unit price for Small Soil Pits, LF.
10. The nominal size of a standard STPD is 15' X 50' unless otherwise shown in the plans. If the volume of clearing and existing vehicle volume, a 30' width STPD may be used if approved by the Engineer. When a double width (20') STPD is used, the per quantity shall be 2 for each location.

SOIL TRACKING PREVENTION DEVICE

Project Name: Meadowlea Village Ph. 4&5

Drainage Plan

Sheet No.  
C021  
of  
C021

COPYRIGHT © 2023 Michael W. Radcliffe Engineering, Inc. All Rights Reserved.

**MWR** MICHAEL W. RADCLIFFE ENGINEERING, INC.  
2811 S.E. Lake Weir Avenue  
Ocala, FL 34471 (352) 629-5500 FAX (352) 629-1010  
Certificate No. EB-5006188 • Michael W. Radcliffe P.E. #3170 • Christopher A. Cain P.E. #45588  
www.radcliffeengineering.com

Reviewed:

By:

Date:

Scale:

Project:

Drawn:

Checked:

File:

Project:

Date:

Project:

Date:

Project:

Date:

Project:

Date:

Project:

Date:

Project:

Date:

Project:

Date:

Project:

Date:

Project:

Date:

Project:

Date:

Project:

Date:

Project:

Date:

Project:

Date:

Project:

Date:

Project:

Date:

Project:

Date:

Project:

Date:

Project:

Date:

Project:

Date:

Project:

Date:

Project:

Date:

Project:

Date:

Project:

Date:

Project:

Date:

Project:

Date:

Project:

Date:

Project:

Date:

Project:

Date:

Project:

Date:

Project:

Date:

Project:

Date:

Project:

Date:

Project:

Date:

Project:

Date:

Project:

Date:

Project:

Date:

Project:

Date:

Project:

Date:

Project:

Date:

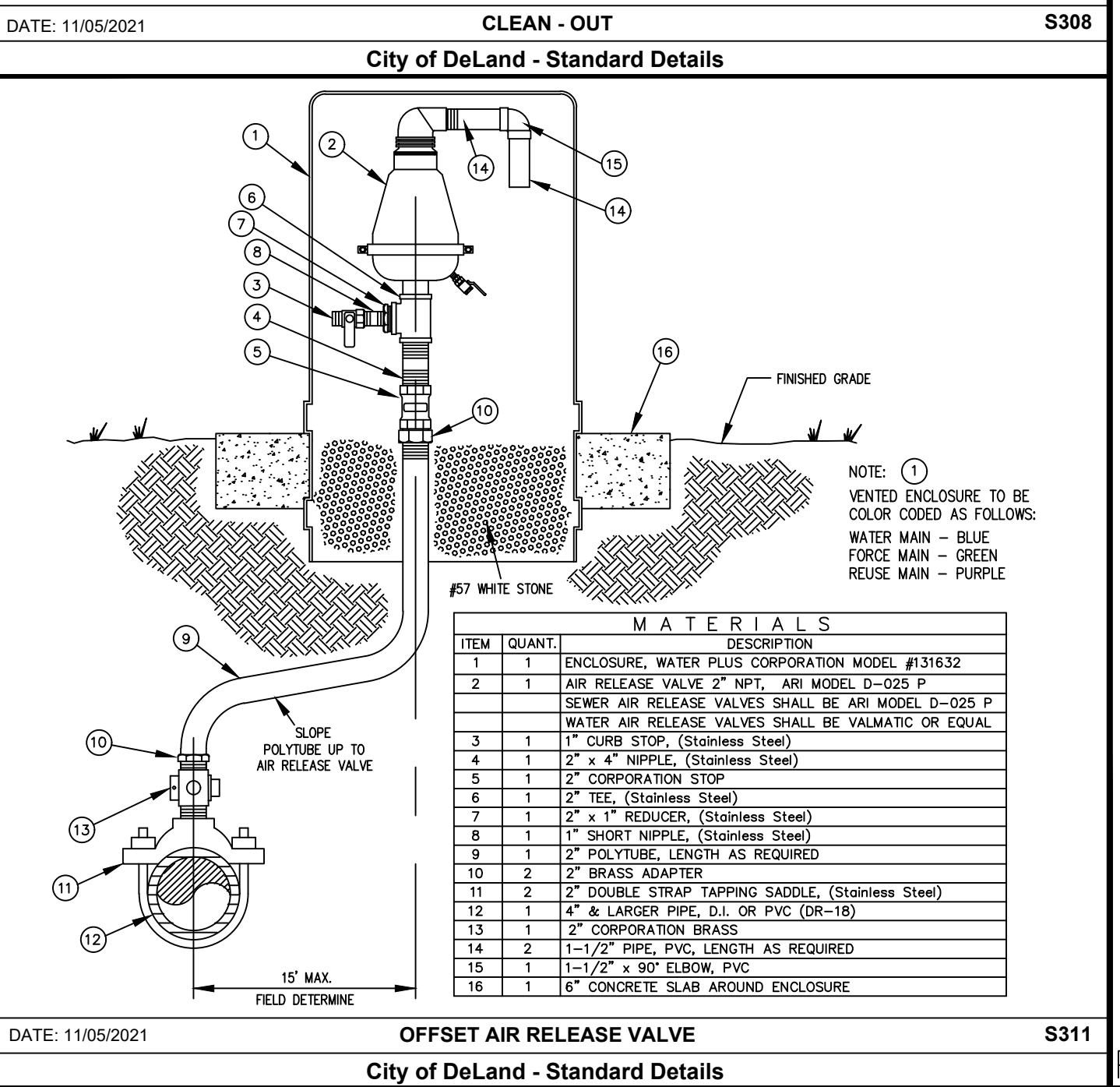
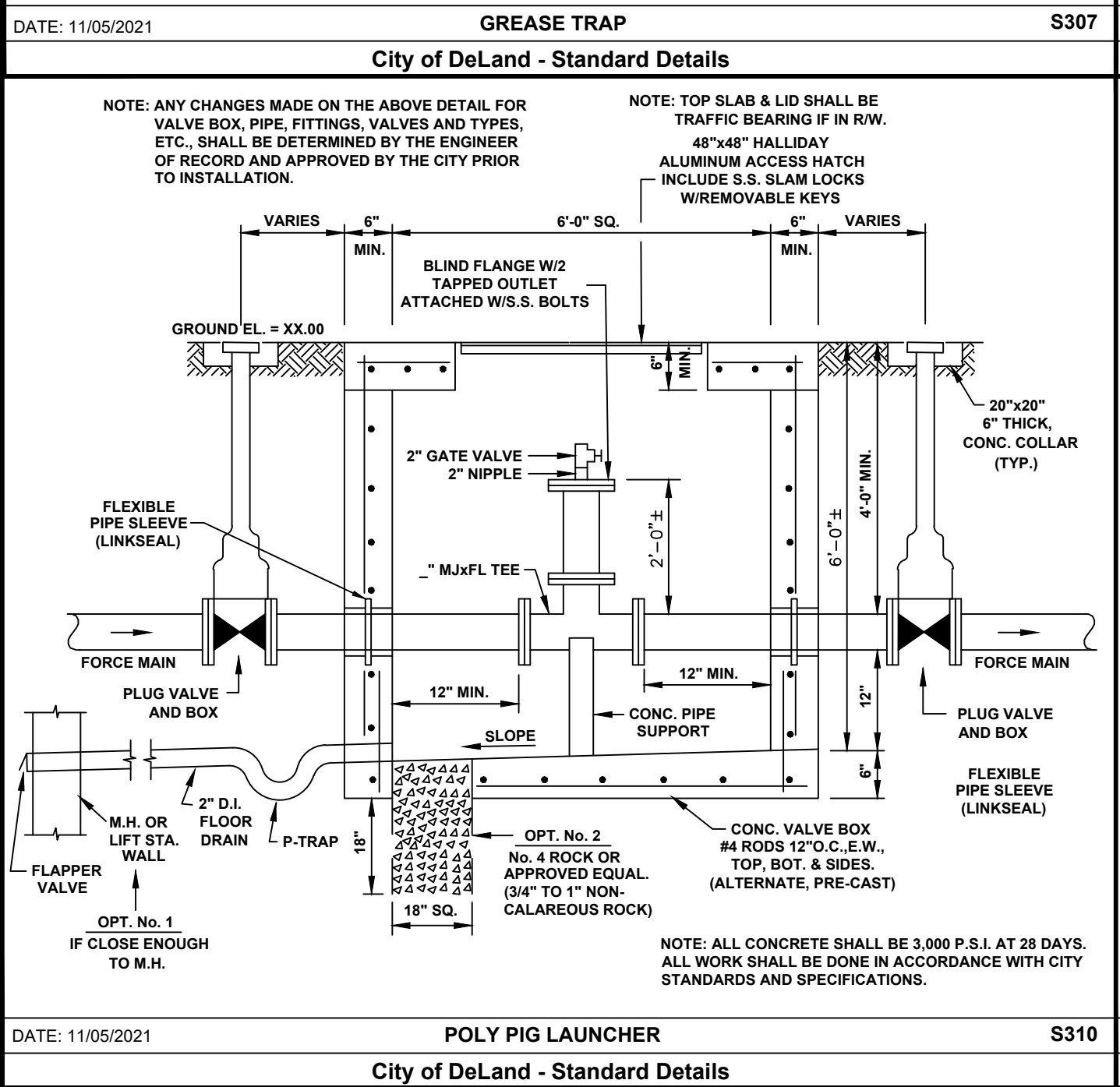
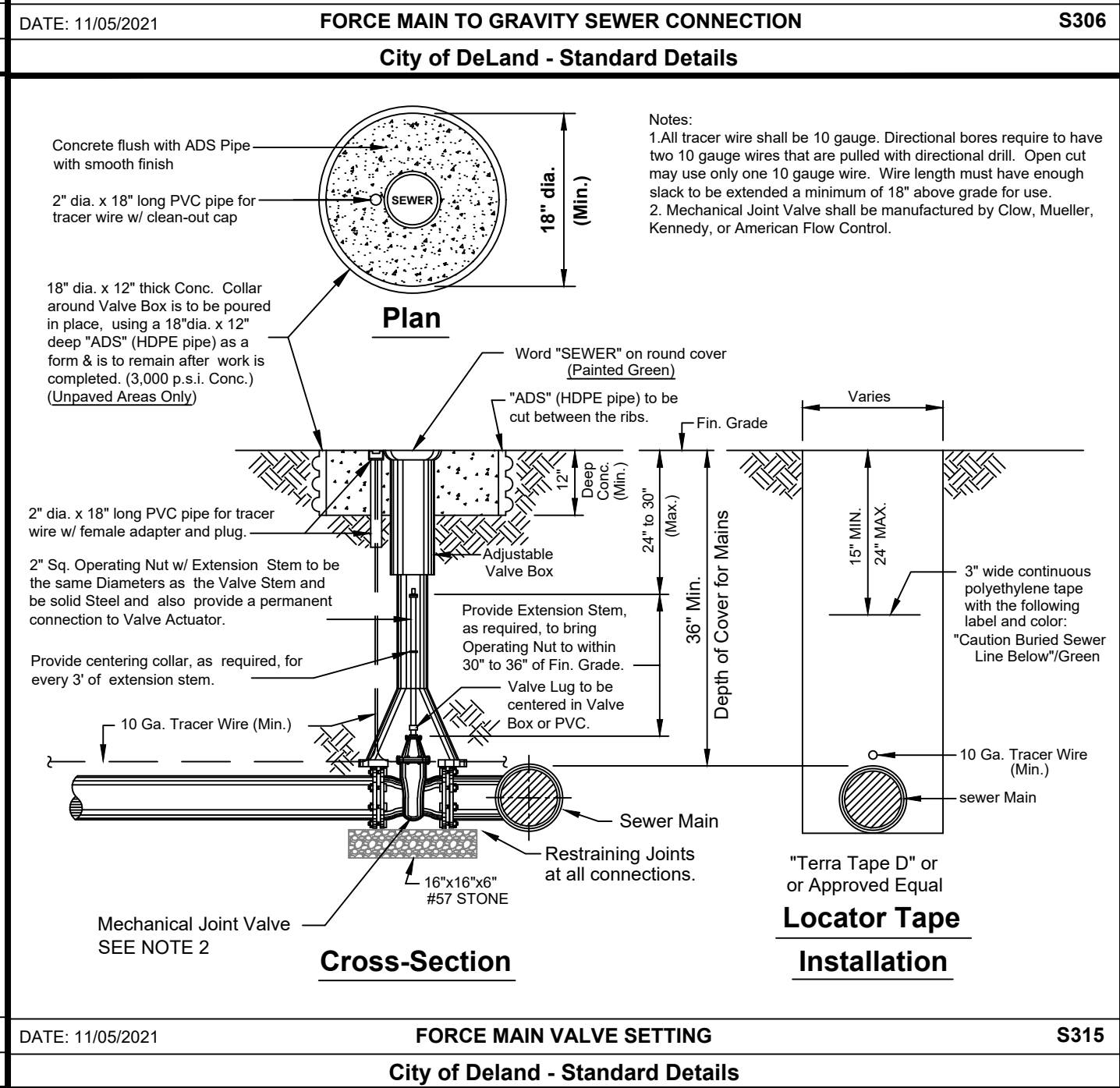
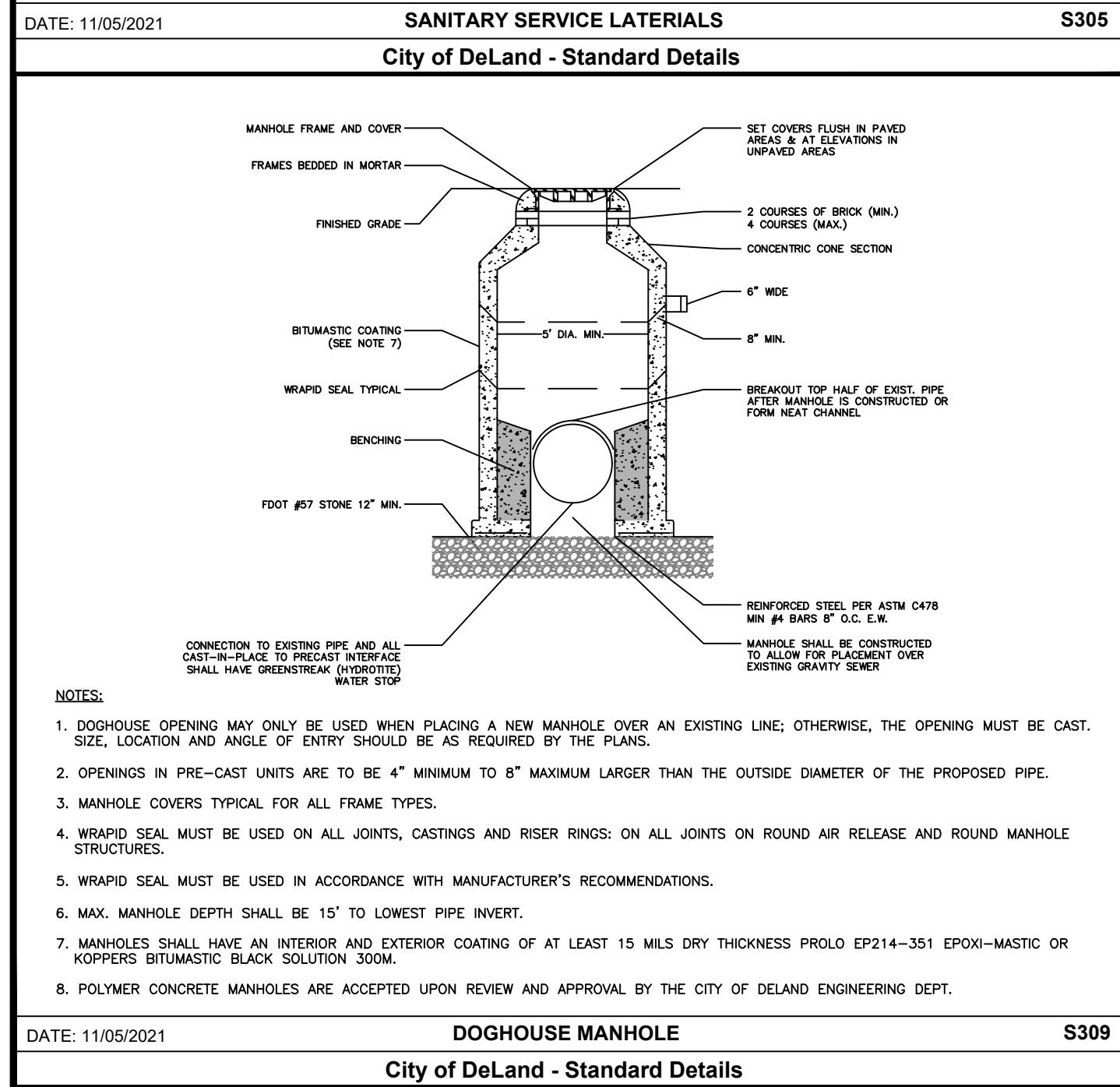
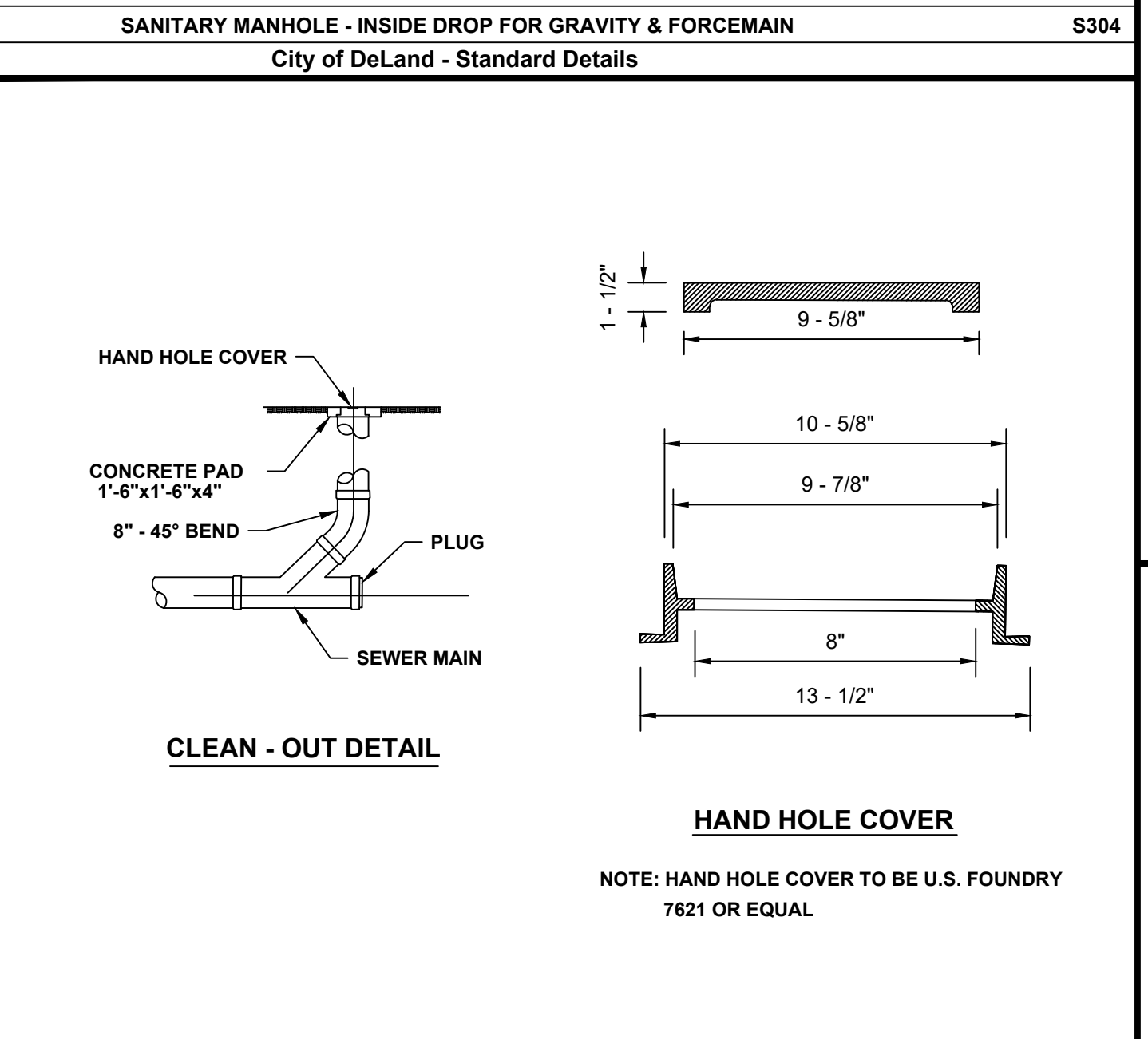
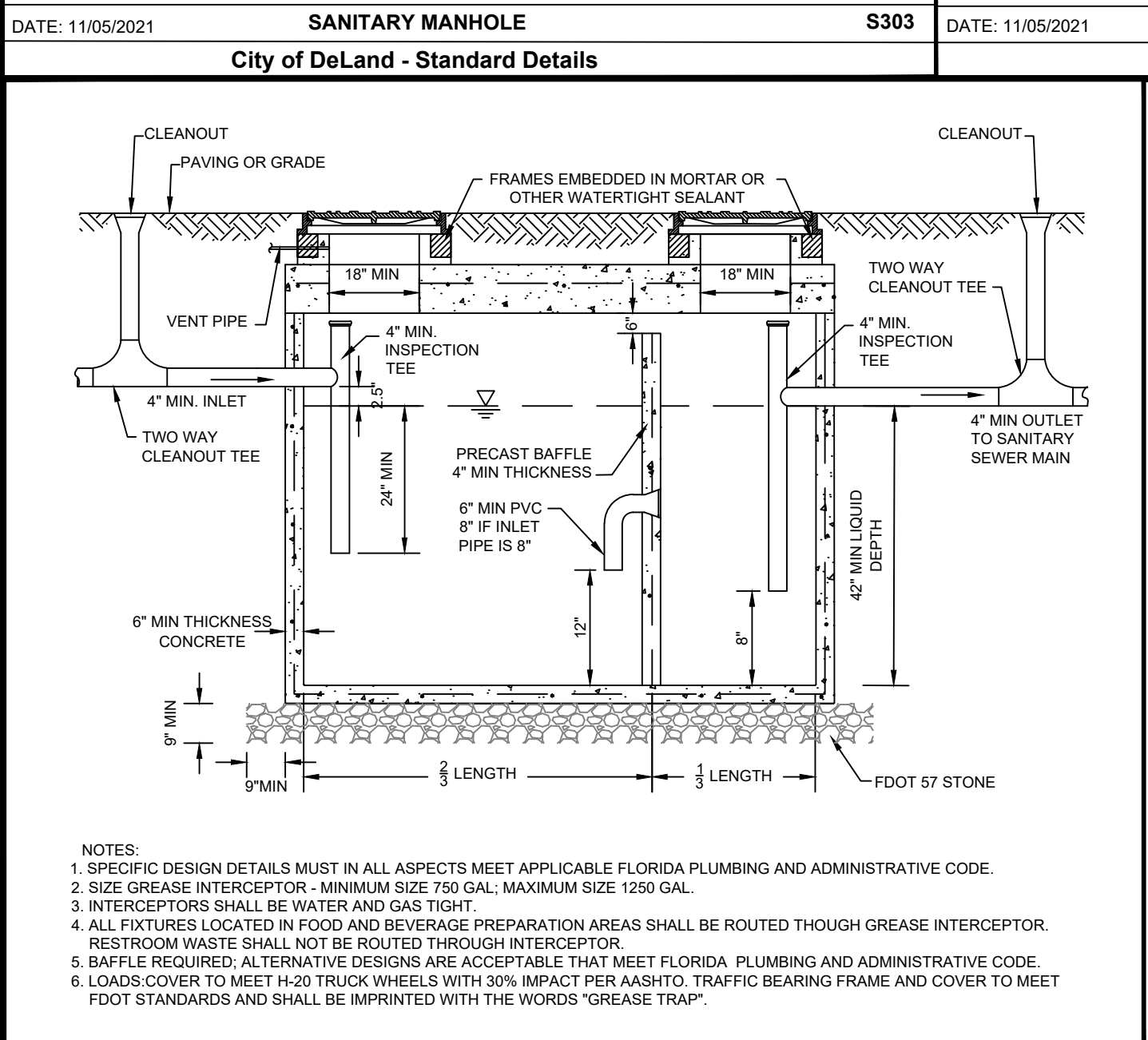
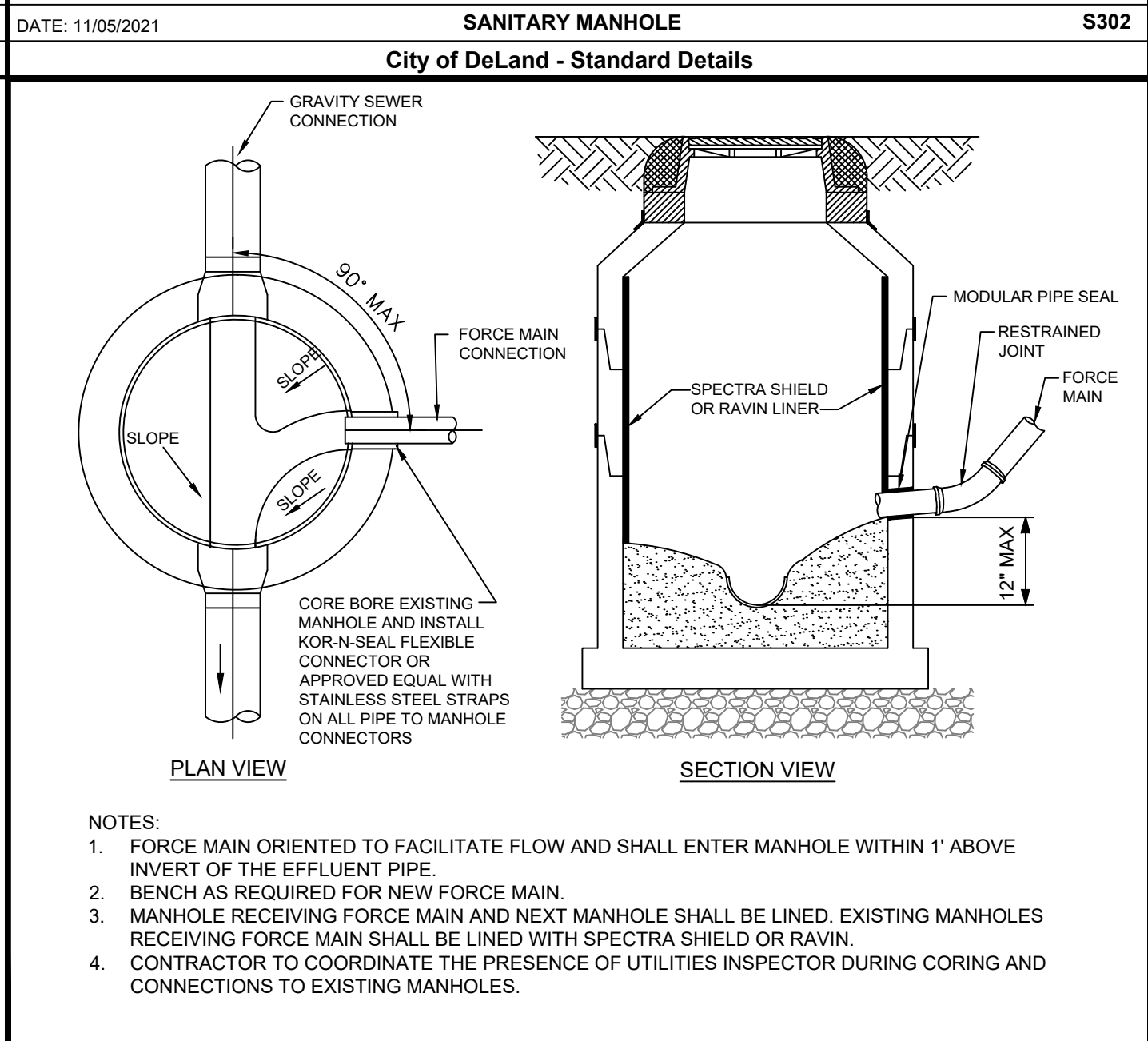
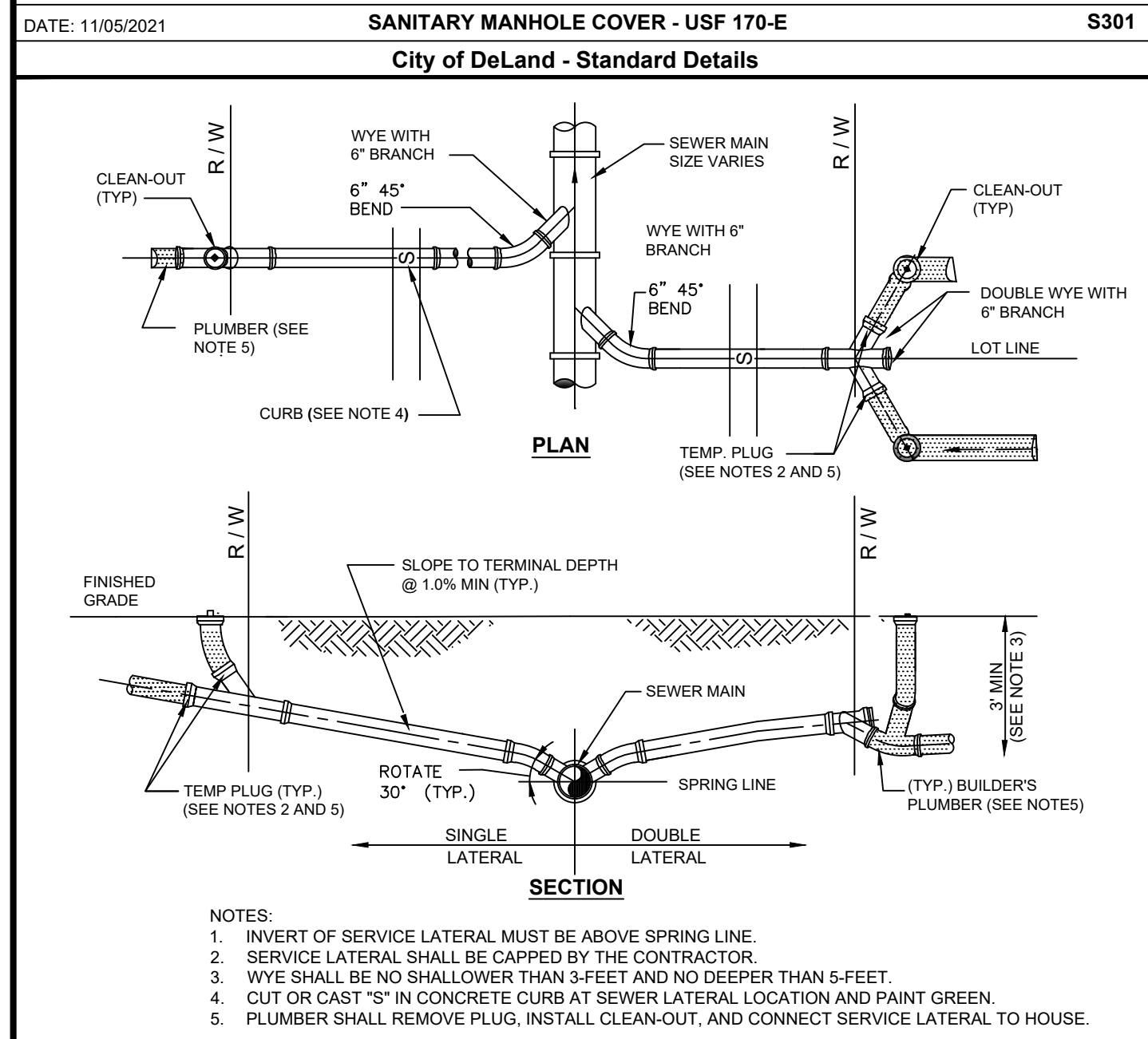
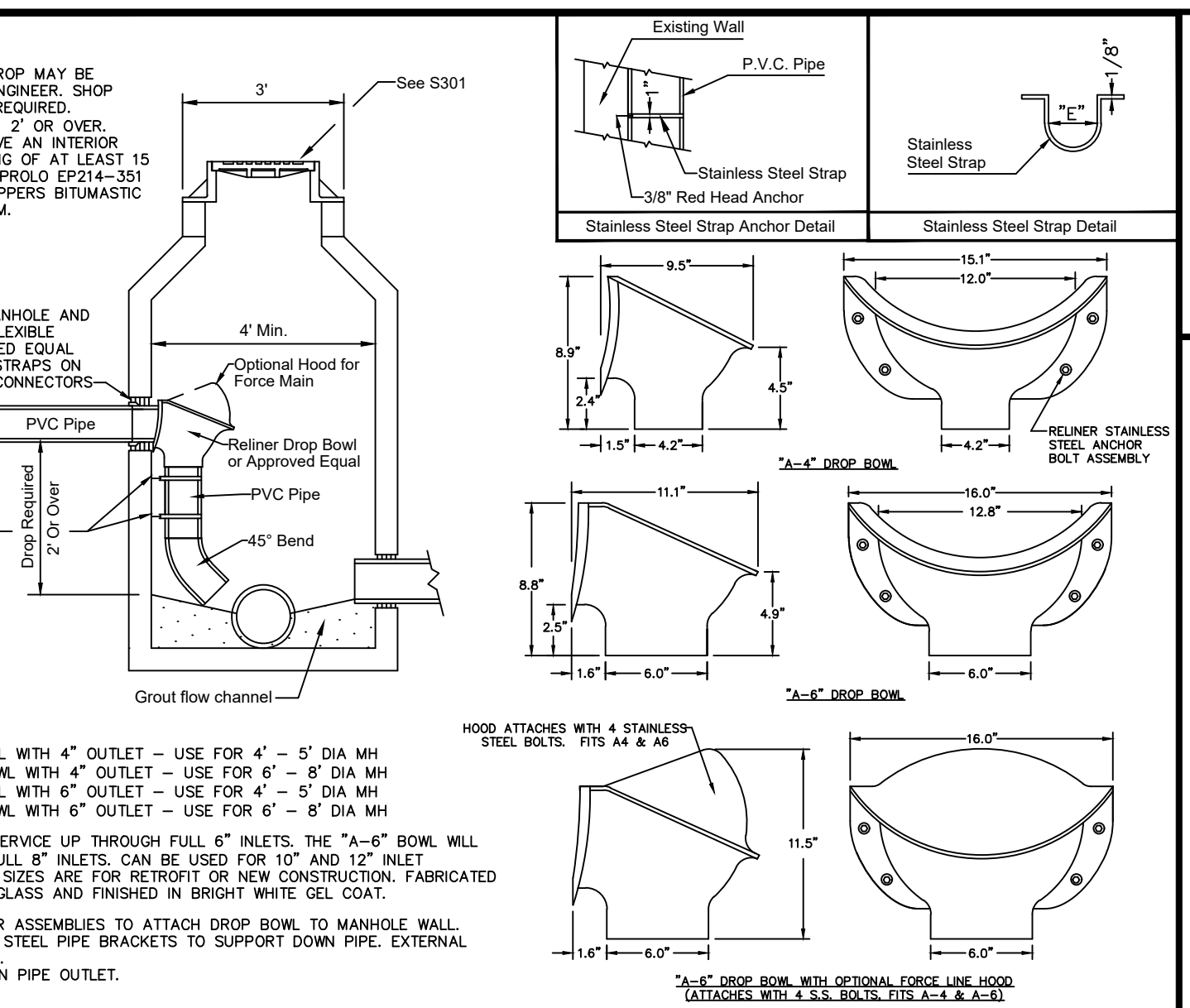
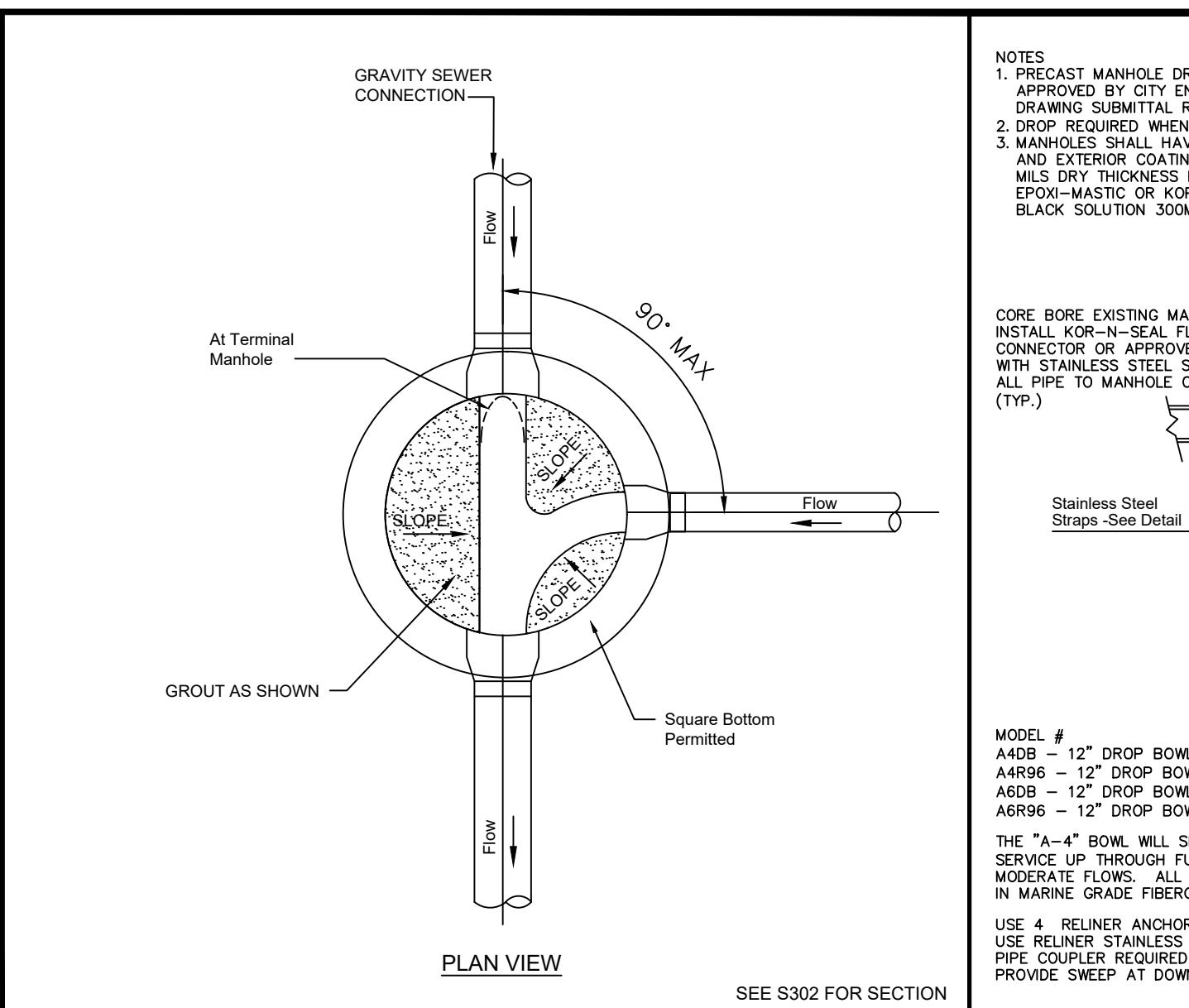
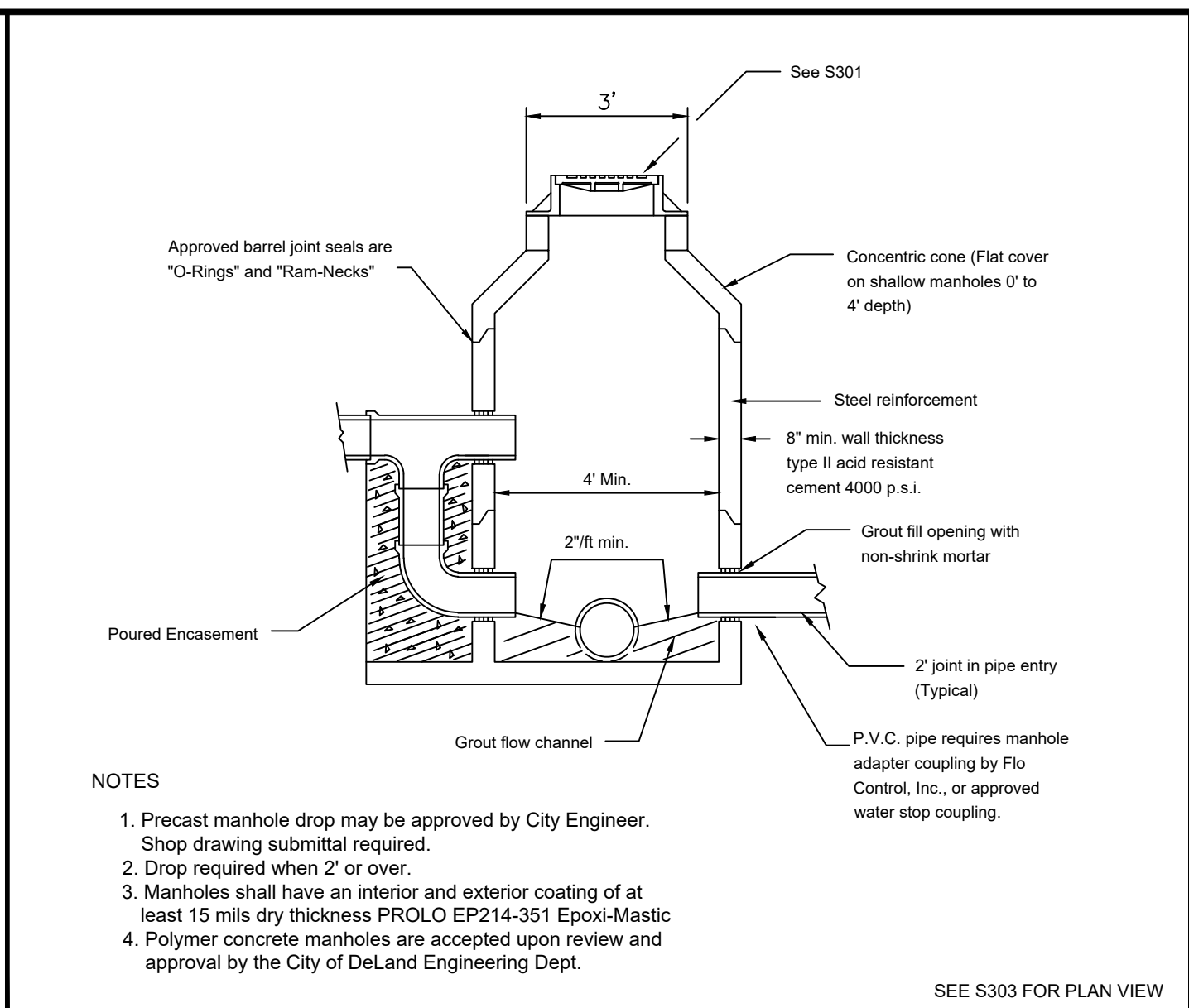
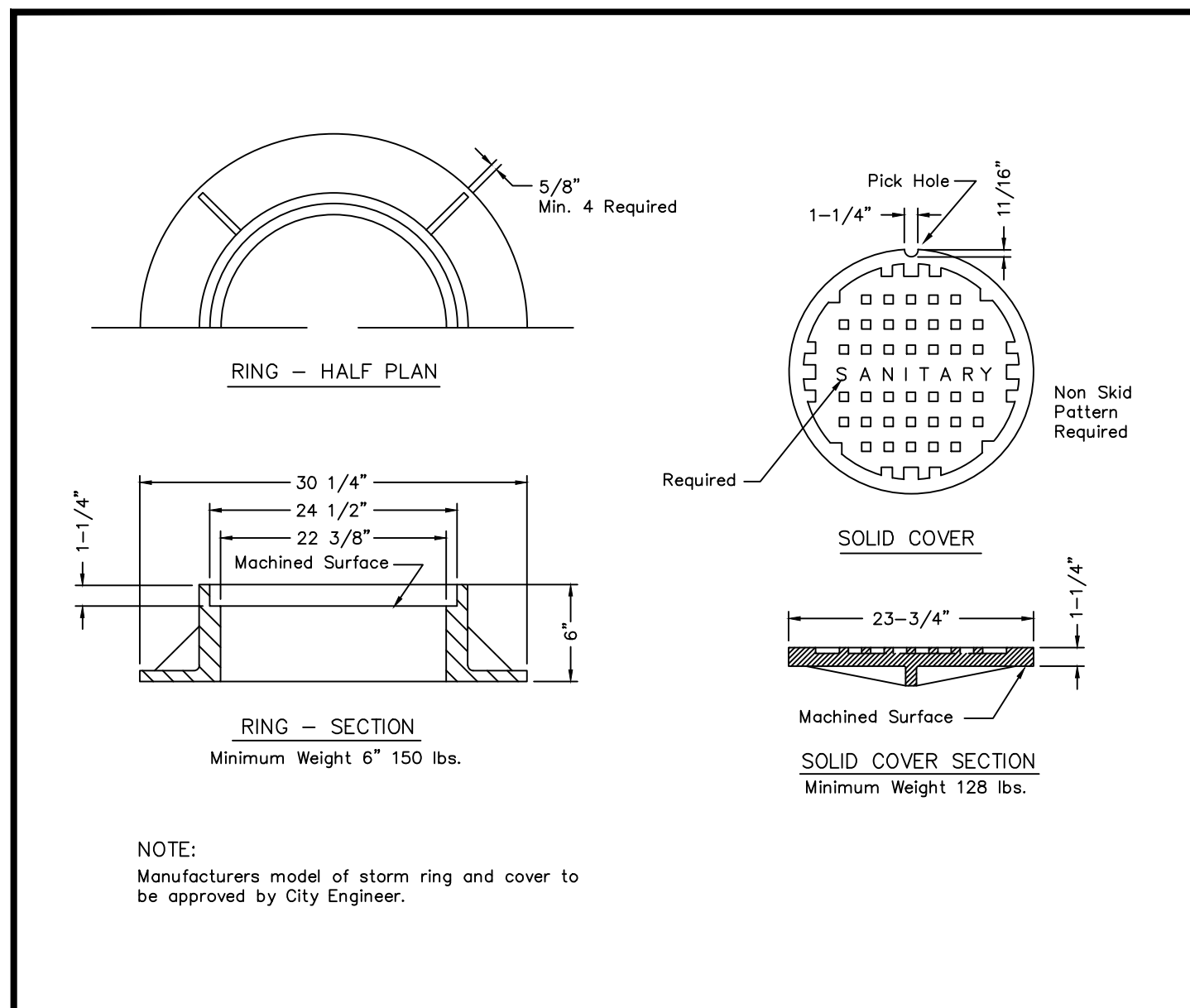
Project:

Date:











| <h2>SPARE PARTS</h2>                                                                                                                                                                                                                                                                                              | <h2>MOTORS</h2>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. VACUUM PUMP AND FLOAT CHECK VALVE</li> <li>2. CHECK VALVE</li> <li>3. CW OR CCW IMPELLER</li> <li>4. PARKER SOLENOID VALVE (25 PSI)</li> <li>5. MECHANICAL SEAL</li> <li>6. SONIC START VACUUM DOME HOUSING</li> <li>7. SONIC START REPLACEMENT PRIME SENSOR</li> </ol> | <p>THE PUMP MOTORS SHALL BE VERTICAL, SOLID SHAFT, NEMA B-BASE, SQUIRREL-CAGE INDUCTION TYPE, SUITABLE FOR 3 PHASE, 60 CYCLE, 480 VOLT ELECTRIC CURRENT, THEY SHALL HAVE CLASS F INSULATION, INSULATION TEMPERATURE SHALL, HOWEVER, BE LIMITED TO CLASS B. THE MOTORS SHALL HAVE NORMAL STARTING TORQUE AND LOW-STARTING CURRENT, AS SPECIFIED BY NEWMAN DESIGN B CHARACTERISTICS. THEY SHALL BE OPEN DRIP-PROOF DESIGN WITH FORCED AIR CIRCULATION BY INTEGRAL FAN. OPENINGS FOR VENTILATION SHALL BE UNIFORMLY SPACED AROUND THE FRAME, LEADS SHALL BE TERMINATED IN CAST CONNECTION BOX AND SHALL BE CLEARLY IDENTIFIED.</p> <p>THE MOTORS SHALL HAVE 1.15 SERVICE FACTOR. THE SERVICE FACTOR SHALL BE RESERVED THE OWNER'S PROTECTION. THE MOTORS SHALL NOT BE OVERLOADED BEYOND THEIR NAMEPLATE RATING. AT THE DESIGN CONDITIONS, NOR AT ANY HEAD IN THE OPERATING RANGE AS SPECIFIED UNDER OPERATING CONDITIONS.</p> <p>THE MOTOR-PUMP SHAFT SHALL BE CENTERED, IN RELATION TO THE MOTOR BASE, WITHIN 0.005". THE SHAFT RUBOUT SHALL NOT EXCEED 0.003".</p> <p>THE MOTORS SHAFT SHALL BE EQUAL OR EXCEED THE DIAMETER SPECIFIED UNDER MAIN PUMPS AT ALL POINTS FROM IMMEDIATELY BELOW THE TOP BEARING TO THE TOP OF THE IMPELLER HUB. A BEARING CAP SHALL BE PROVIDED TO HOLD THE BOTTOM MOTOR BEARING IN A FIXED POSITION. BEARING HOUSINGS SHALL BE PROVIDED WITH FITTING FOR LUBRICATION AS WELL AS PURGING OLD LUBRICANT. THE MOTORS SHALL BE FITTED WITH HEAVY LIFTING EYES OR LUGS, EACH CAPABLE OF SUPPORTING THE ENTIRE WEIGHT OF THE PUMP AND MOTOR.</p> |

- 
- A technical diagram of a 4-inch gate valve assembly. The valve is shown in a cross-section view, with a horizontal pipe passing through it. The flow direction is indicated by an arrow pointing to the left, labeled "FLOW". The valve is labeled "4\" GATE VALVE (FLANGED)". The top of the valve is connected to a "HANDWHEEL". The bottom of the valve is connected to a "GATE VALVE (FLANGED) WITH VALVE BOX". The top of the valve is also labeled "KAMLOK (FEMALE) W/ DUST PLUG".

Diagram illustrating the connection of the tower leg to the foundation. The tower leg is shown as a vertical structure with a horizontal base. The base is connected to a "CONC. FOUNDATION REF." (Concrete Foundation Reference). The connection is made using a "1\" PVC CONDUIT SET DIRECTLY IN FRONT OF LEFT RTU MOUNT TOWER LEG". The tower leg is labeled "TOWER REF.". A dimension of "1.5\" is indicated for the horizontal distance from the tower leg to the foundation reference.

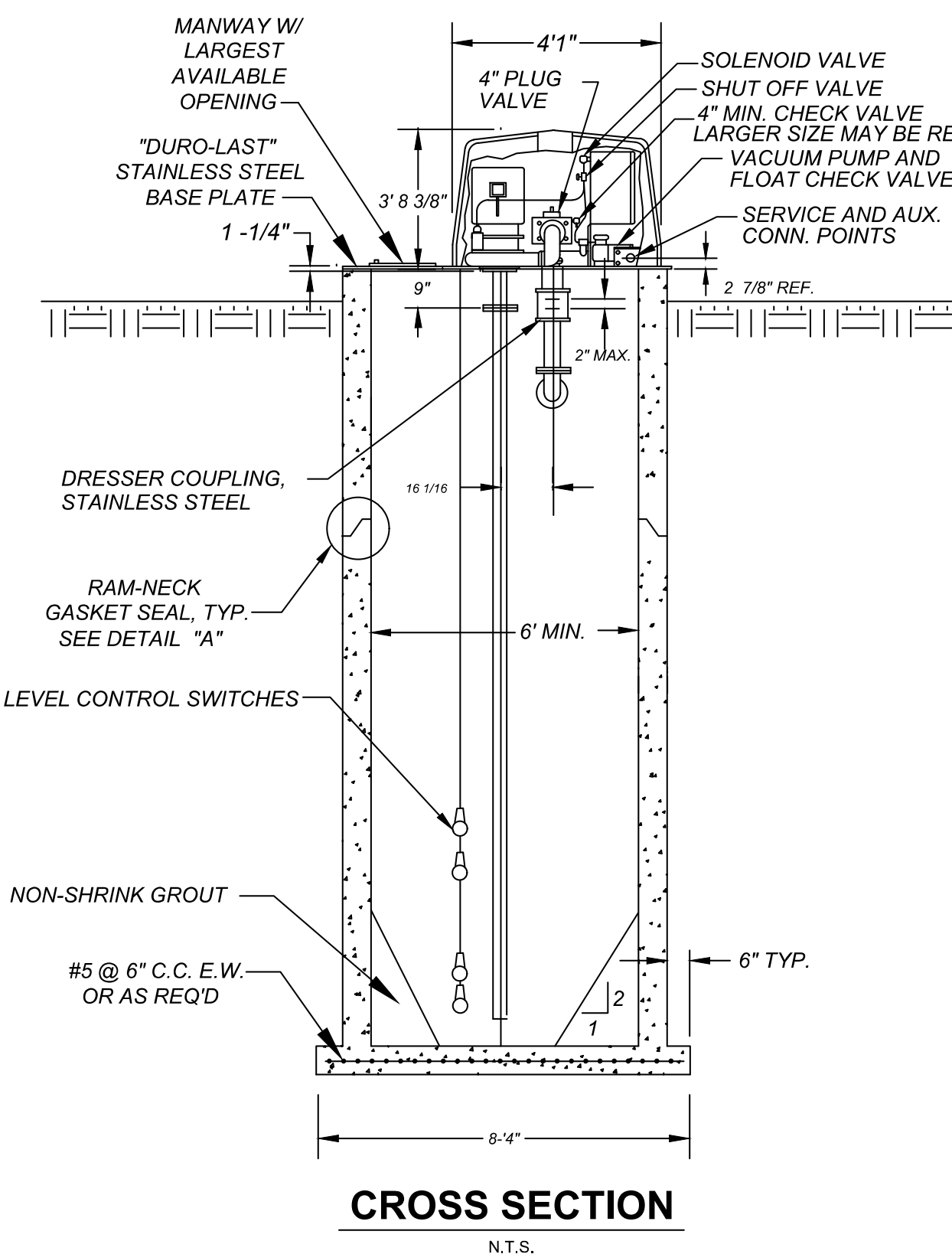
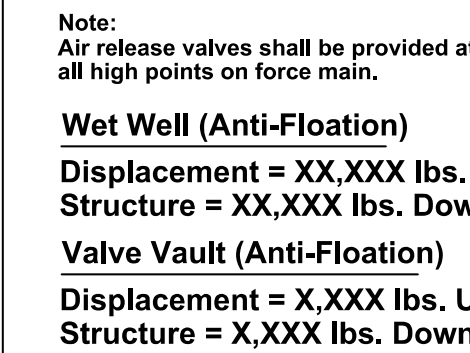
Technical drawing of a wet well assembly, showing various components and dimensions. The drawing includes a cross-section view of the wet well structure, with a vertical shaft and a horizontal section at the top. Key components and dimensions are labeled:

- Top Section:**
  - GATE VALVE (FLANGED) WITH VALVE BOX
  - VALVE BOX W/COVER 4"x4"x5" DEEP CONC. W/6" THICK WALLS & BOT. (SOLID BOTTOM)
  - GATE VALVE (FLANGED) W/ VALVE BOX
  - VENTILATING BLOWER
  - 2-SMITH & LOVELESS PUMPS
  - 500 WATT HEATER
  - CONTROL PANEL
  - "DURO-LAST" STAINLESS STEEL BASE PLATE
  - PADLOCK HASP
  - VENT
  - 54" (height of vent)
  - TOP EL. 71.0
- Shaft Section:**
  - 4" MIN. (width of shaft)
  - 6" VENT W/SCREEN
  - SCH. 80 P.V.C. FLANGE AND GASKET W/ S.S. BOLTS
  - 4" MIN. SCH. 40 P.V.C.
  - S.S. U-CLAMPS (LARGER SIZE MAY BE REQUIRED)
  - MIN. 4" "U" SUPPORT CHANNEL SHALL BE CENTERED VERTICALLY IN WET WELL
  - 6" MIN. (width of shaft)
  - 8" MIN. (width of shaft)
  - 3' MIN. COVER
  - SLOPE TO DRAIN
  - P-TRAP
  - 2" P.V.C. DRAIN
  - FLAPPER VALVE
  - 4" DISCHARGE PIPE DUCTILE IRON/P.V.C.
  - 20'-5" (total height of shaft)
- Bottom Section:**
  - LEVER CONTROL SWITCHES
  - ALARM ON EL. 54.60
  - LAG PUMP ON EL. 54.10
  - LEAD PUMP ON 53.10
  - LOW LEVEL SHUT OFF 51.60
  - RUBBER BOOT MANHOLE COUPLING (FACTORY INSTALLED) W/ STAINLESS STEEL STRAP
  - 8" INV. EL. 00.00
  - PIPE (8" S.D.R.35)
  - 6" TYP.
  - SUCTION SUPPORTS
  - BOT. EL. 50.60
  - MIN. 18" (width of shaft)
  - 9.79" (width of shaft)
  - 6" (width of shaft)

3. DIESEL FUEL TANK WITH THREE DAY RUN TIME MIN. (600 Gallon Maximum Storage)
4. AUTOMATIC TRANSFER SWITCH SHALL BE REQUIRED.
5. GENERATOR SHALL BE CONNECTED TO THE REMOTE TELEMETRY UNIT FOR MONITORING.
6. NEW SUBDIVISIONS OF 80 HOMES OR MORE WILL PROVIDE (LESS THAN 80 HOMES WILL PAY A PRO RATA SHARE \$450 PER UNIT)
7. POLYMER CONCRETE WET WELLS ARE ACCEPTED UPON REVIEW AND APPROVAL BY THE CITY OF DELAND ENGINEERING DEPT.

1. BACKFLOW PREVENTER SHALL BE, WILKINS 3/4" 975-XP OR WATTS 3/4" 919-QT, RP, W/ CONBRACO FREEZE PROTECTION VALVE, MODEL NO. 40-000-PPV2, TO BE MOUNTED AT TEST COCK #4.
2. ALL 3/4" HOSE BIBBS SHALL ALSO HAVE A VACUUM BREAKER.
3. LIFT STATION SITE SHALL BE SODDED.
4. PRIOR TO ACCEPTANCE OF THIS LIFT STATION, CITY STAFF WILL OBSERVE THAT THIS STATION WILL PUMP DOWN TO THE CITY'S SPECIFIED OUT-OF-LEVEL UNDER THE CONDITIONS OF A FULL DISCHARGE PRESSURE SEWER, BEING PRESSURIZED W/ ALL OTHER PUMP STATIONS OPERATING, IF THERE EXISTS A MANIFOLD CONDITION, THE DEVELOPER WILL BE RESPONSIBLE FOR LABOR AND MATERIALS FOR THIS DEMONSTRATION.
5. DO NOT PLACE TRANSFORMERS OR OTHER APPURTENANCES WITHIN THE DESIGNATED EASEMENT THAT WILL IMPEDE MAINTENANCE ACTIVITIES OF THIS STATION.
6. ORIENTATE THE MANWAY TOWARD THE STREET SIDE FOR EASY ACCESS BY OPERATING & MAINTENANCE PERSONNEL.
7. PROVIDE ADEQUATE PAVING (CONC. OR ASPHALT) 12' WIDE DRIVE FROM STREET TO PUMP STATION FOR SAFE ACCESS OF EMERGENCY GENERATOR, SEWER ROOT GATES, AND OTHER MAINTENANCE VEHICLES.
8. PROVIDE 6" HIGH COMMERCIAL GRADE CONCRETE CURB FENCE, USING TWO 8' FOOT GATES. FENCE SHOULD BE LOCATED IN SUCH A MANNER, AS NOT TO INTERFERE WITH ANY PANEL DOORS OR HATCH OPENINGS, AND GATE POSITIONED TO ALLOW EASY ACCESS TO WET WELL. (BLACK OR GREEN VINYL COATED), (REFER TO SITE PLAN).
9. A 40' X 40' TRACT SHALL BE DEDICATED TO THE CITY OF DELAWARE FOR THE LIFT STATION SITE.
10. PROVIDE "DURO-LAST" STAINLESS STEEL BASE PLATE ON LIFT STATION.
11. BRASS OR COPPER PIPE & FITTINGS, ONLY, SHALL BE USED FOR BFP & HOSE BIBBS AND UNLESS ABOVE GRADING.
12. ALL SEWER AIR RELEASE VALVES SHALL BE 2" A.R.I. MODEL D-025TP02.
13. MIN. 2X2' AROUND AND 6" CLEARANCE ABOVE METER

| WET<br>WELL<br>DIA. | DIM<br>"A" | DIM<br>"B"  | DIM<br>"C" | DIM<br>"D" | DIM<br>"E" | DIM<br>"F" | DIM<br>"G" | DIM<br>"H" | DIM<br>"J" | DIM<br>"K" | DIM<br>"L" |
|---------------------|------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 6'- 0"              | 2"         | 1'-1 13/16" | 3'-4"      | 6'-8"      | 2'-1 3/8"  | 2'-5 7/8"  | 1'-8"      | 3'-10"     | 3'-5 1/2"  | 10"        | 1'-8 7/8"  |



|    | DIM<br>"B" | DIM<br>"C" | DIM<br>"D" | DIM<br>"E" | DIM<br>"F" | DIM<br>"G" | DIM<br>"H" | DIM<br>"J" | DIM<br>"K" | DIM<br>"L" |
|----|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 1' | 1' 13/16"  | 3'-4"      | 6'-8"      | 2'-1 3/8"  | 2'-5 7/8"  | 1'-8"      | 3'-10"     | 3'-5 1/2"  | 10'        | 1'-8 7/8"  |

1" AUX. CONDUIT LOCATION  
FRONT OF STATION

4" PLUG VALVE

4" WAFER CHECK VALVE

ALTERNATE DISCHARGE LOCATION (3) POSITIONS

1-1/2" SERVICE ENTRANCE CONDUIT LOCATION

"DURO-LAST" STAINLESS STEEL BASE PLATE

PUMP NO. 2

PUMP NO. 1

WET WELL

K REF

ALUMINUM TREAD PLATE MANWAY COVER

6" WET WELL I.D.

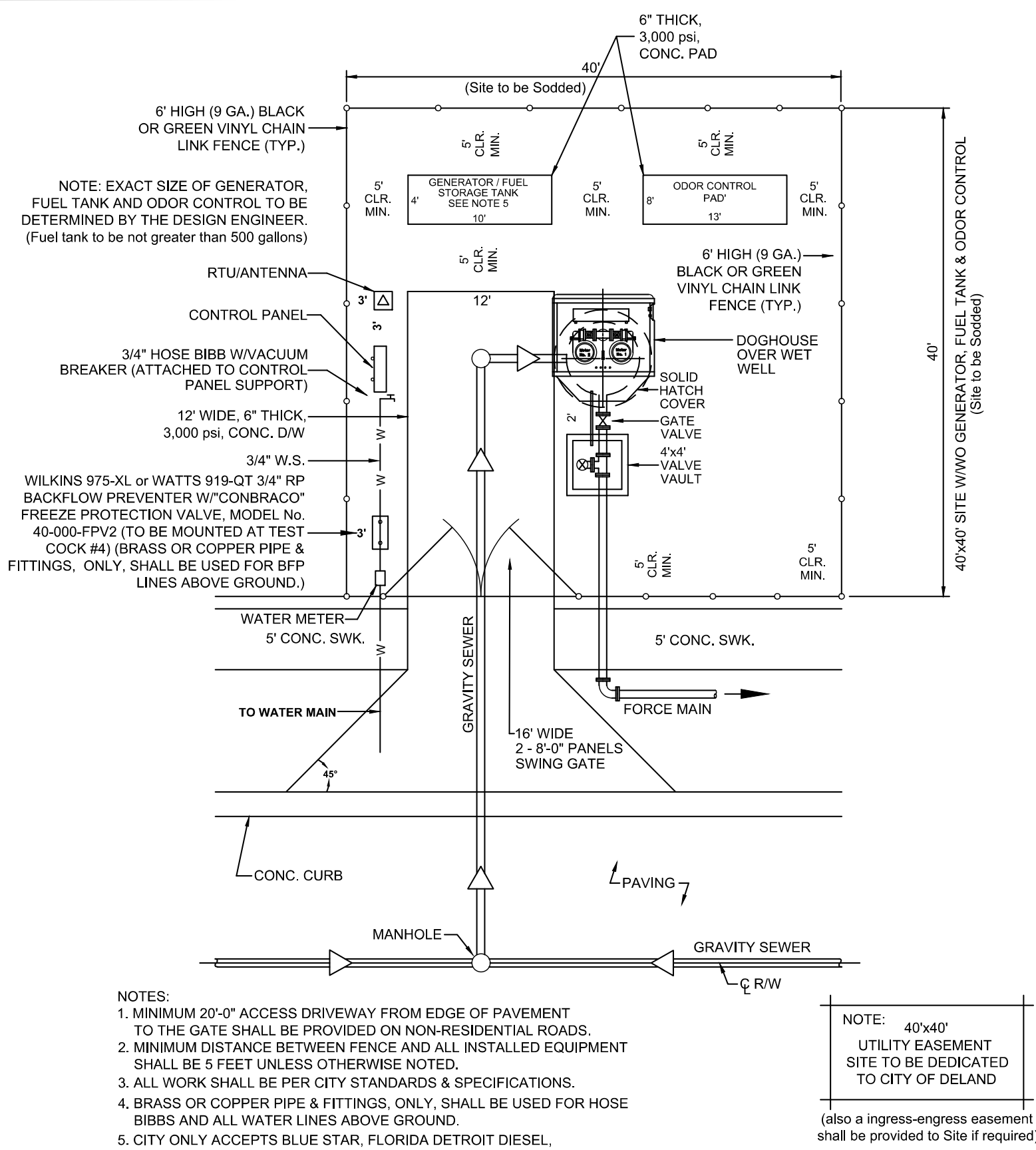
Dimensions: J, H, C, D, E, F, G, K

1. IF END OF DISCHARGE LINE  
IS BELOW ELEVATION OF DISCHARGE  
LINE @ POINT OF LEAVING WET WELL A  
PRIMING LOOK LOOP MAY BE RED D. (CONSULT FACTORY)
2. IF DISCHARGE LINE IS LESS THAN 200' IN LENGTH  
AN ADDITIONAL CHECK VALVE OR PRIMING LOOK  
LOOP MAY BE RED D. (CONSULT FACTORY)
3. PROVIDE 60° SLOPE IN WET WELL, AS REQD.
4. VOL. LINE IN GALLONS BETWEEN I.L. ON AND I.L. OFF SHOULD  
BE EQUAL OR GREATER THAN THE PUMPING RATE IN G.P.M.
5. MAXIMUM CAPACITY - 400 G.P.M.

## PLAN VIEW

N.T.S.

**MACH. CHAMBER**  
**(SHOWN LESS HOOD)**



6. POLYMER CONCRETE WET WELLS ARE ACCEPTED UPON REVIEW AND APPROVAL BY THE CITY OF DELAND ENGINEERING DEPT.

**City of DeLand, Engineering Services**  
1102 S. Garfield Avenue, DeLand, Florida 32724

CHECKED BY:

DRAWN BY: *ERIC SAMPSON*

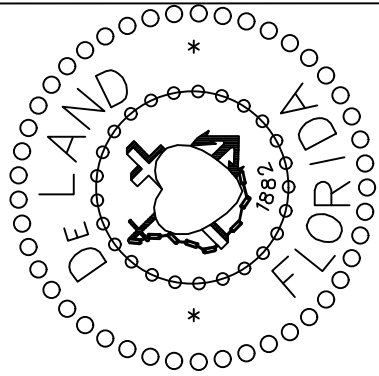
TITLE:

PAGE 3 OF 5

FILE: **LIFTSTATION.dwg**

REVISED 5/31/07  
REVISED 8/6/08  
REVISED 10/12/09  
REVISED 4/8/10  
REVISED 8/1/13  
REVISED 9/2/14  
REVISED 5/15/17  
REVISED 7/24/18  
REVISED 11/05/21





City of DeLand, Engineering Services  
1102 S. Garfield Avenue, DeLand, Florida 32724

DATE: 11/05/2021

CHECKED BY:

SCALE: NOT TO SCALE

DRAWN BY: ERIC SAMPSON

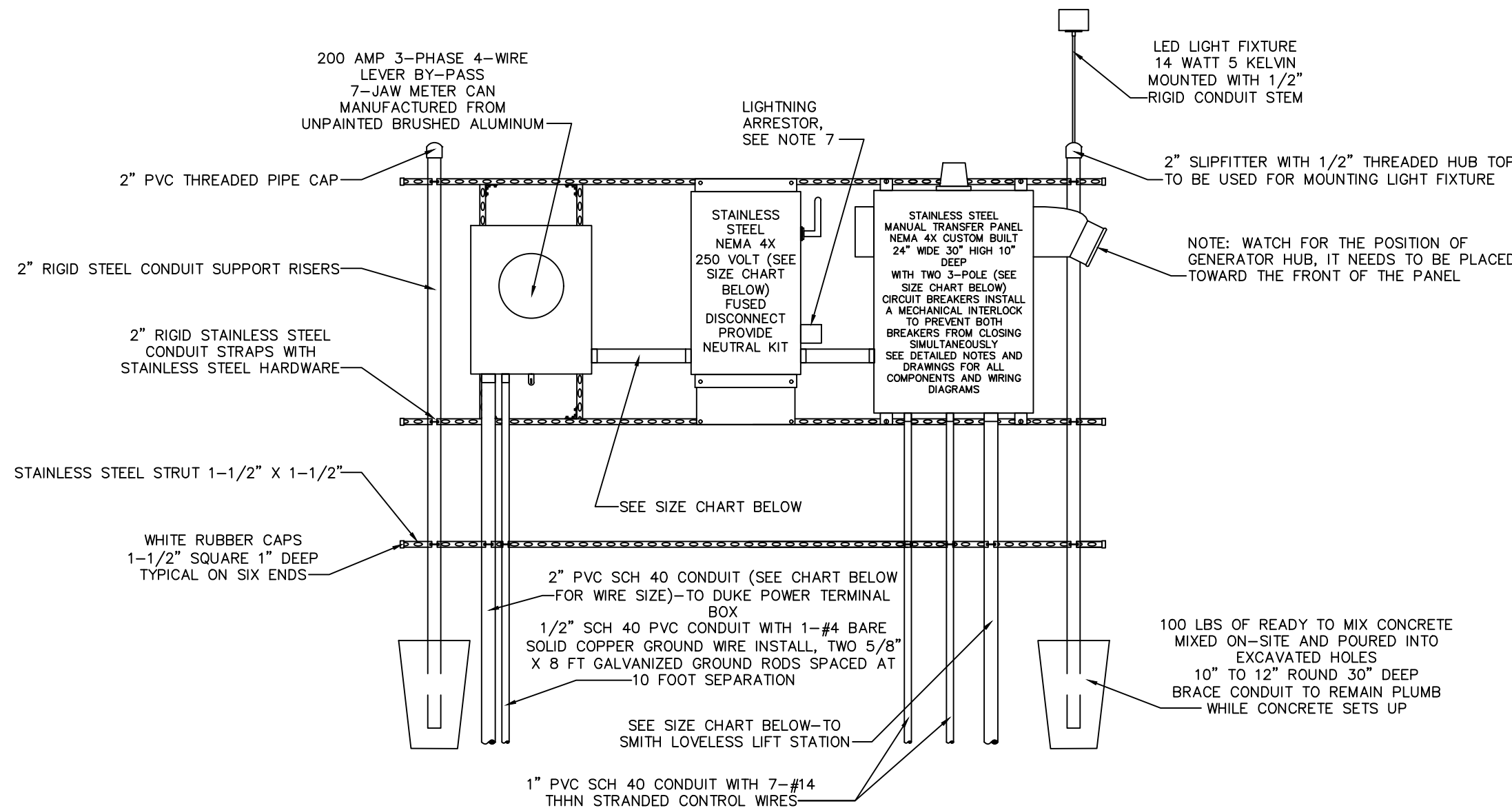
SANITARY LIFT STATION

TITLE:

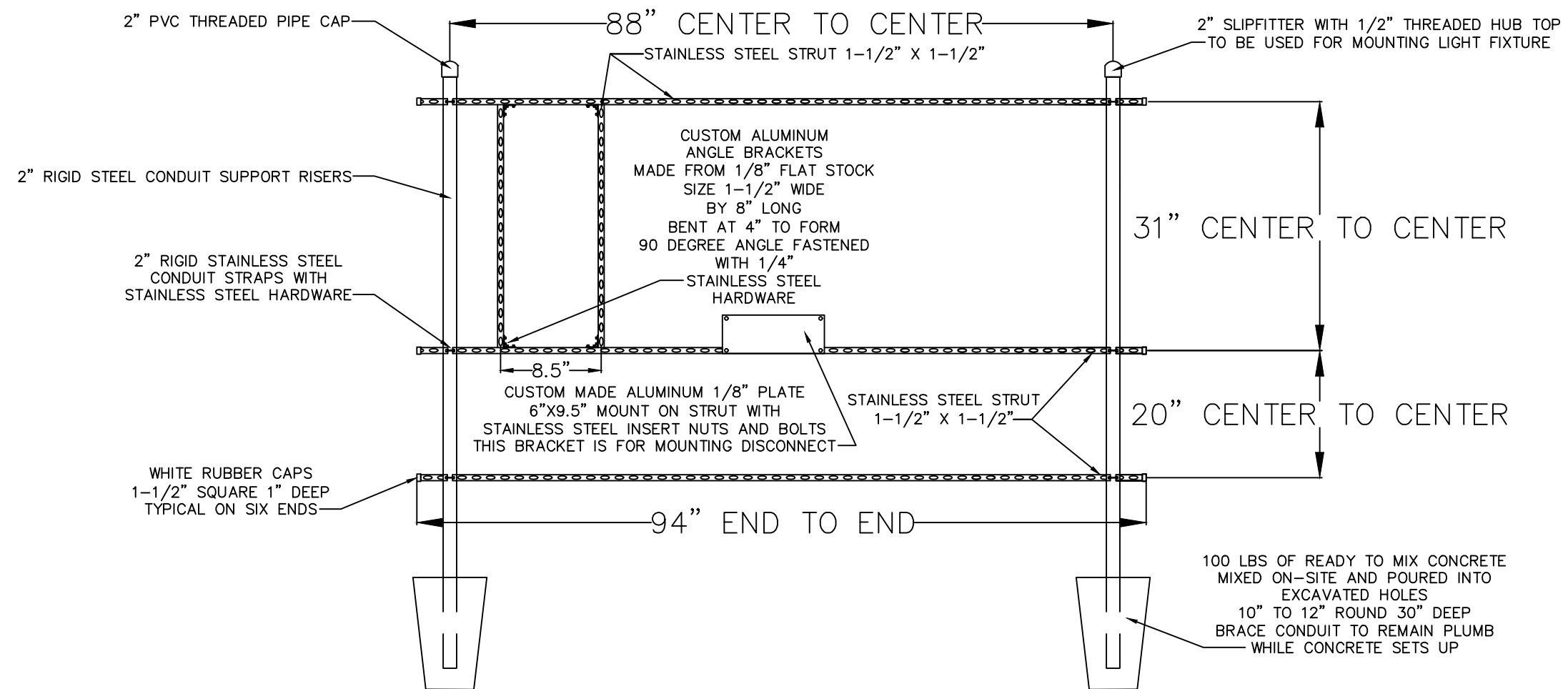
FILE: LIFT\_STATION\_DETAILS\_A\_B.dwg

PAGE 4 OF 5

DETAIL "A"



240 VOLT POWER RACK WITHOUT GENERATOR

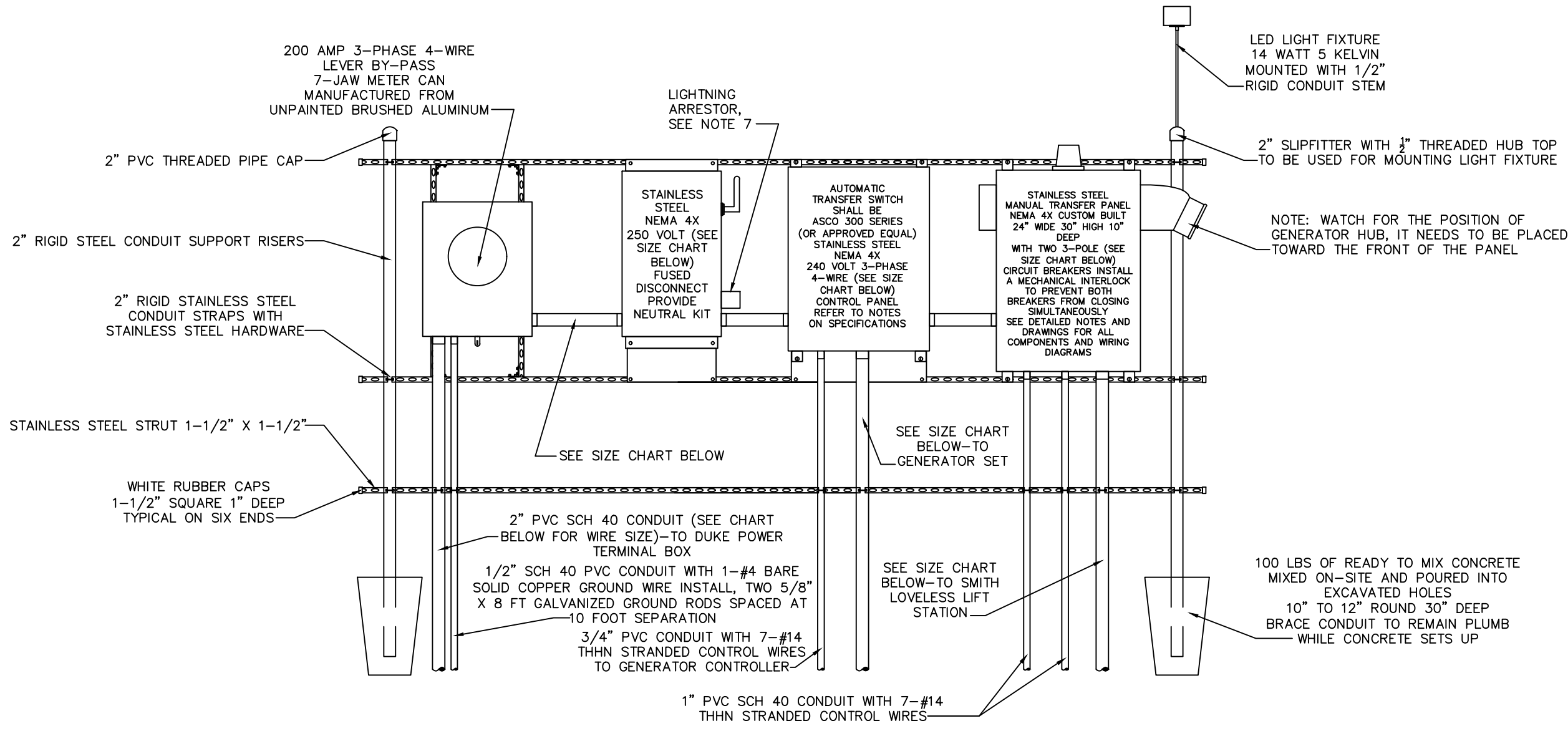


RACK FRAMING DETAILS  
240 VOLT WITHOUT AUTOMATIC TRANSFER SWITCH

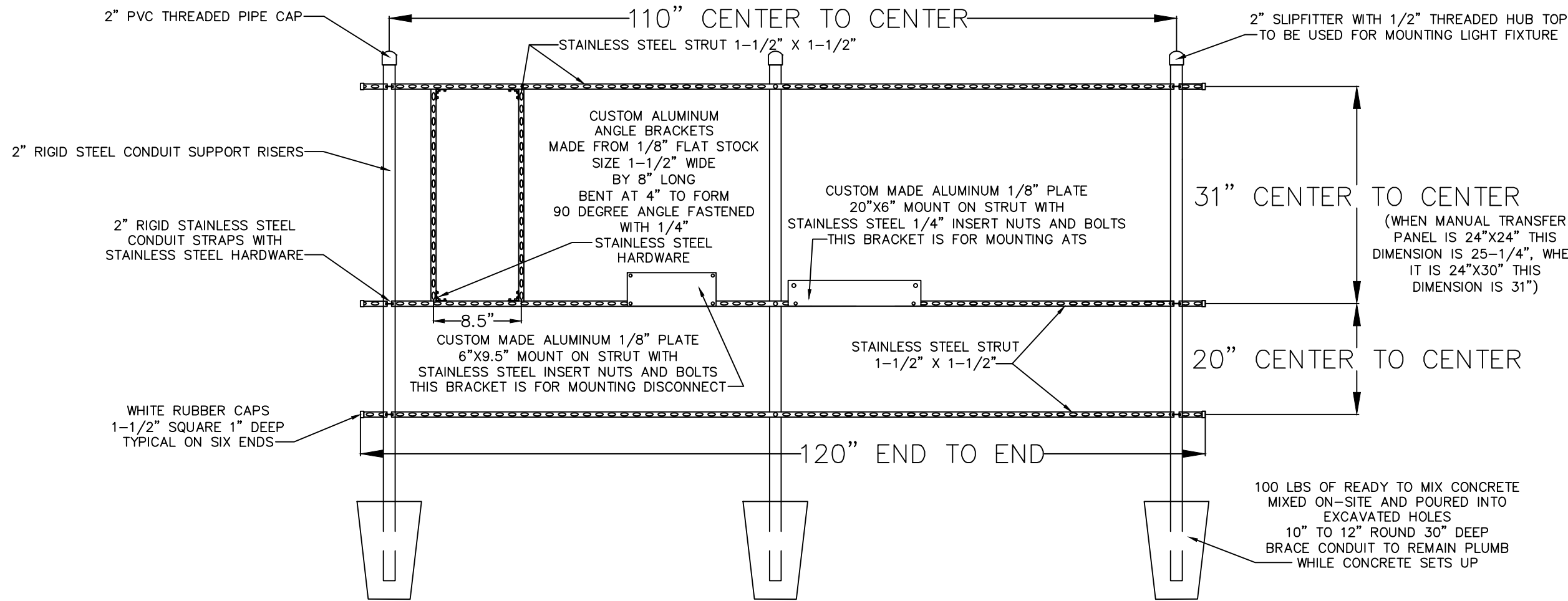
CONTROL GENERATOR RECEPTACLE PANEL

- ENCLOSURE : NEMA 4X STAINLESS, 304 GRADE, 14 GAUGE, GASKETED, #4 BRUSHED FINISH, U.L. AND CSA APPROVED, HASP AND STAPLE FOR PADLOCKING, INSIDE PRINT POCKET, STAINLESS STEEL HINGE, MIN. SIZE 24" x 24" x 8" FOR UP TO 15 H.P.
- MAIN BREAKER : SQUARE D HEAVY DUTY SIZED PROPERLY FOR FULL LOAD OF STATION PLUS 25%.
- EMERGENCY BKR. : SQUARE D HEAVY DUTY SIZED PROPERLY FOR FULL LOAD OF STATION PLUS 25%.
- MECH. INTERLOCK: ALL ALUMINUM AND STAINLESS STEEL W/ POSITIVE MEANS OF LOCKING OFF BREAKER NOT IN USE. THE BREAKERS WILL PROTRUDE THROUGH INNER DOOR.
- RECEPTACLE: RUSSELL STOLL JRS1044FR (230 VOLT ONLY), MELTRIC PART #37-98047 (480 VOLT ONLY)
- ANGLE ADAPTER: RUSSELL STOLL JAAB-10, 20 DEG. ADAPTER
- LIGHTNING ARRESTOR: HEAVY DUTY, SQUARE D PIN SDSA3650
- PHASE MONITOR: DIVERSIFIED PIN SLA-230-ASA, 8 PIN WITH N.O. AND N.C. CONTACTS WIRE TO TERMINAL FOR RTU EQUIPMENT.
- HIGH WATER ALARM: RED, LEXAN, W/NO EXTERNAL SCREWS.
- HWA RELAY: SQUARE D OR OMRON, 8 PIN DOUBLE POLE, DOUBLE THROW WIRED TO RTU TERMINAL.
- ALARM HORN: RED, WHEELLOCK PIN 31T-115 MOUNTED TO RED WEATHER PROOF CAST BOX ON EXTERIOR OF ENCLOSURE.
- ALARM RELAY: SQUARE D OR OMRON, 8 PIN DOUBLE POLE, DOUBLE THROW WIRED TO RTU TERMINAL.
- ALARM RESET/SIL: SQUARE D, WEATHER PROOF MOUNTED ON EXTERIOR OF ENCLOSURE.
- ENCL. BACKPLATE: ALUMINUM, 12 GAUGE
- TERMINAL STRIP: BUCHANON PIN 0625
- GROUND LUG: BUCHANON PIN 824
- NEUTRAL LUG: BUCHANON PIN 824
- MAIN LOAD LUG: SQUARE D PIN U3
- LABELS: ALL BREAKERS AND SWITCHES TO BE IDENTIFIED BY PERMANENTLY ATTACHED LABEL TO PANEL DOOR INTERIOR
- MOUNTING SCREWS: STAINLESS STEEL 304
- SCHEMATIC DWG.: PROTECTED BY PLASTIC COATING AND ATTACHED TO PANEL DOOR INTERIOR.
- MANUFACTURER: STACON, EOS OR CITY OF DELAND APPROVAL
- R.T.U.: DATA FLOW MELBOURNE FLA. (R.T.U. 204) OR EQUAL TO BE INSTALLED BY CITY-DEVELOPER TO BEAR ALL COSTS.
- PROVIDE SPARE PARTS - SEE SPARE PARTS LIST
- WET WELL TO BE COATED INSIDE AND OUT WITH MIN. 24 MILS OF COAL/TAR EPOXY
- EQUIVALENT PRODUCTS CAN ONLY BE APPROVED UPON RECEIPT OF WRITTEN AUTHORIZATION FROM THE CITY OF DELAND.

DETAIL "B"



240 VOLT POWER RACK WITH GENERATOR  
AUTOMATIC TRANSFER SWITCH



RACK FRAMING DETAILS  
240 VOLT WITH AUTOMATIC TRANSFER SWITCH

SIZE CHART

STEP #1: DETERMINE LIFT STATION SIZE & SPECIFICATIONS FROM THE UTILITY CONTRACTOR OR CITY OF DELAND ENGINEERING DEPT.

STEP #2: MAKE NOTE OF THE FOLLOWING: THE VOLTAGE FOR THE STATION, THE NUMBER OF PUMPS (2 OR 3) & THE HORSEPOWER OF PUMPS.

STEP #3: REFER TO THE ELECTRICAL SERVICE DATA CHARTS FOR THE STANDARD 2 PUMP OR 3 PUMP STATION (FOUND ON SHEET 3 OF 3).

STEP #4: USE THE VOLTAGE COLUMN AND THE HORSEPOWER ROW TO FIND THE TOTAL STATION FULL LOAD AMPS.

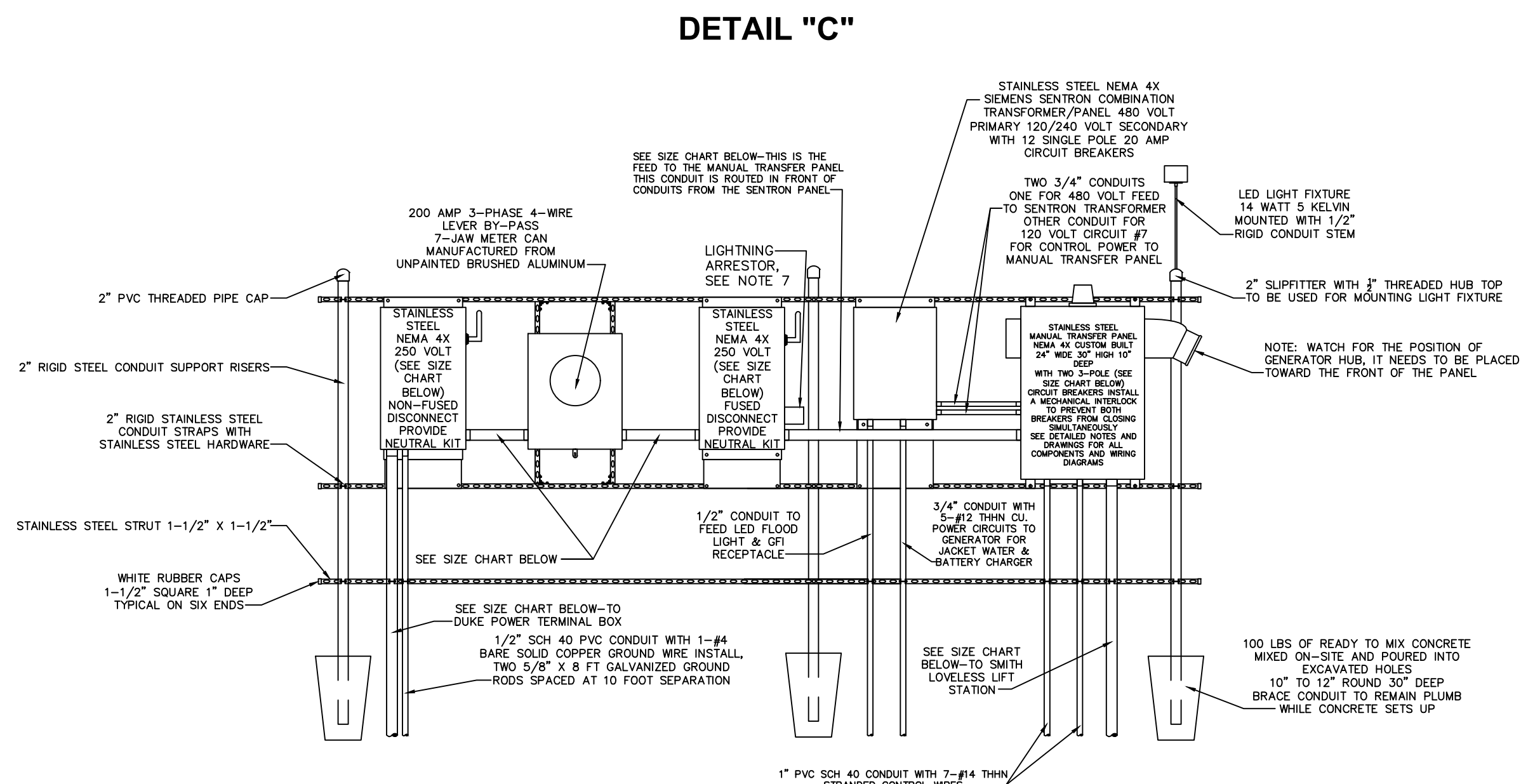
STEP #5: UPON DETERMINING THE FULL LOAD AMPS OF THE STATION, THE SERVICE ENTRANCE SIZE SHALL NOT BE SMALLER THAN 100 AMPS.

STATIONS THAT REQUIRE A SERVICE SIZE LARGER THAN 100 AMPS SHALL BE SIZED CLOSEST TO THE STANDARD SIZES LISTED BELOW.

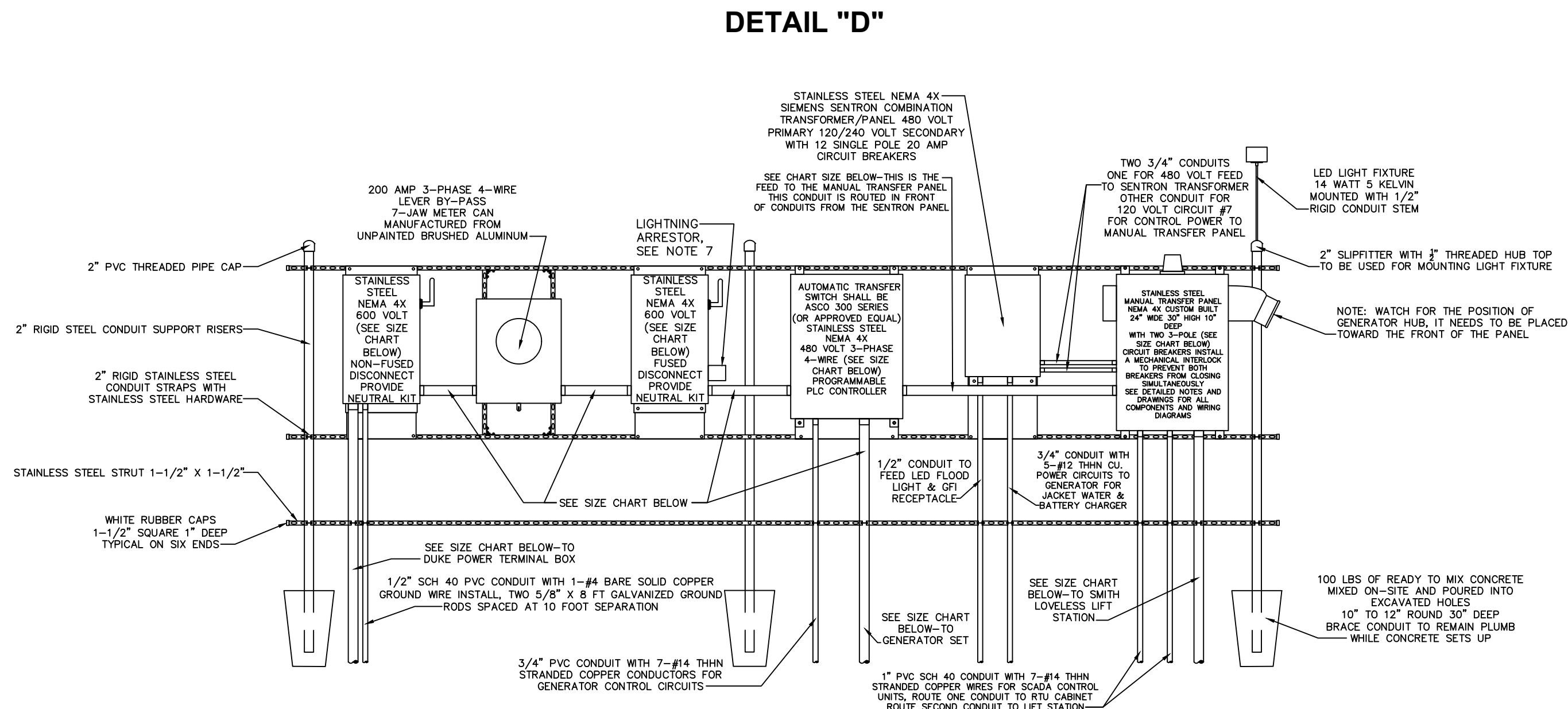
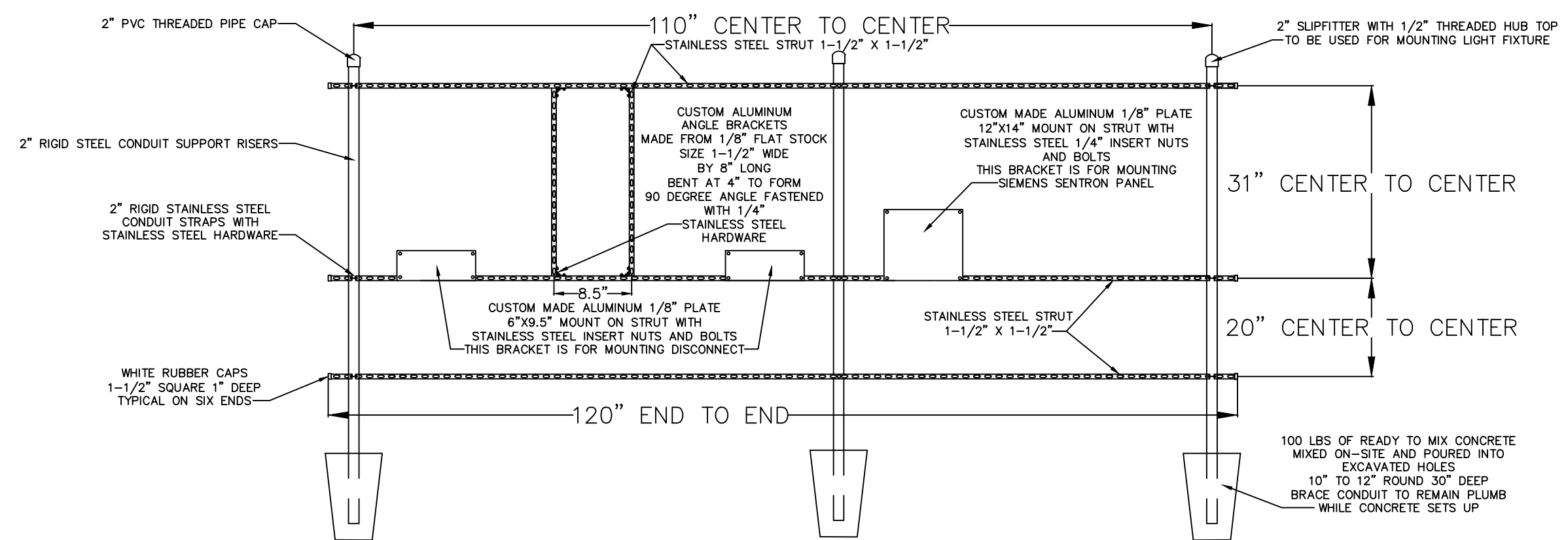
| SERVICE SIZE | CONDUIT SIZE | WIRE SIZE   | BREAKER OR FUSE RATING |
|--------------|--------------|-------------|------------------------|
| 100 AMP      | 1-1/2"       | #3 THHN CU  | 100 AMP                |
| 125 AMP      | 1-1/2"       | #2 THHN CU  | 125 AMP                |
| 150 AMP      | 2"           | #1 THHN CU  | 150 AMP                |
| 200 AMP      | 2"           | 3/0 THHN CU | 200 AMP                |
| 225 AMP      | 2-1/2"       | 4/0 THHN CU | 225 AMP                |

Index No.  
30800  
REVISED 11/05/21  
SHEET 2 OF 3

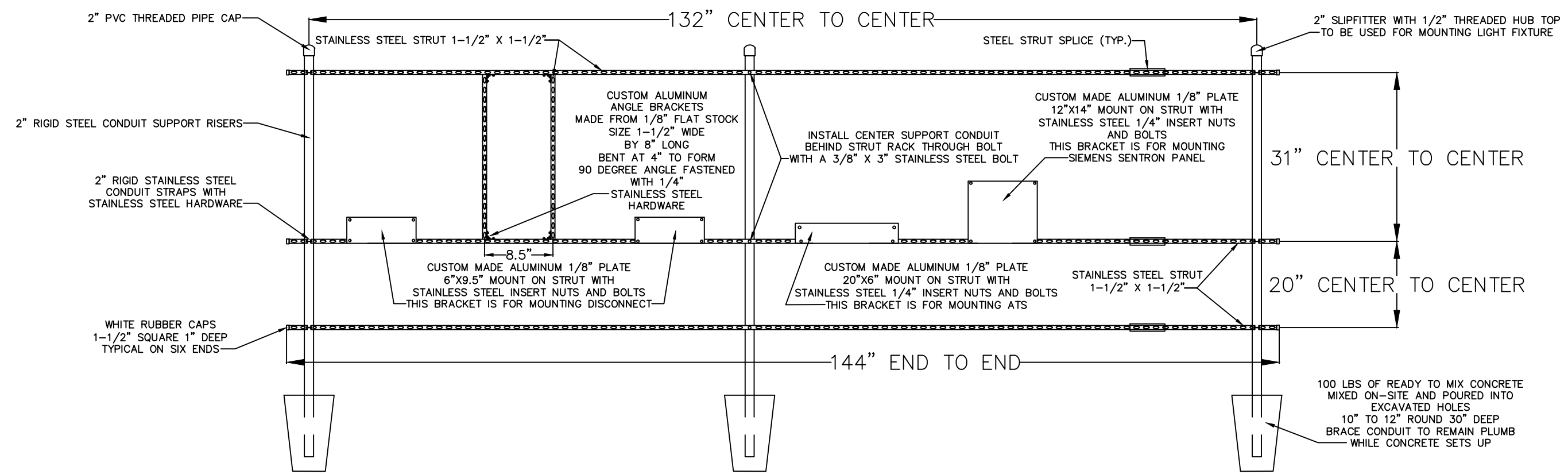




## 480 VOLT POWER RACK WITHOUT GENERATOR AUTOMATIC TRANSFER SWITCH



## 480 VOLT POWER RACK WITH GENERATOR WITH AUTOMATIC TRANSFER SWITCH



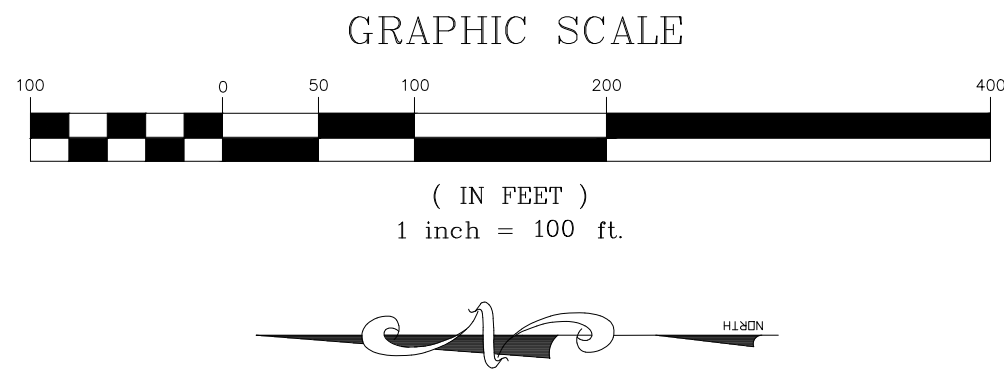
**ELECTRICAL SERVICE DATA**  
**STANDARD 2-PUMP WET WELL MOUNTED PUMP STATION**

| MAIN PUMP<br>MOTOR SIZE |          | TOTAL STATION FULL LOAD AMPS |          |  |
|-------------------------|----------|------------------------------|----------|--|
| RATED HP EACH           | 208 VOLT | 230 VOLT                     | 460 VOLT |  |
| 1                       | 17.6     | 15.3                         | 7.6      |  |
| 1-1/2                   | 21.8     | 18.9                         | 9.5      |  |
| 2                       | 25.9     | 22.5                         | 11.3     |  |
| 3                       | 33.1     | 28.8                         | 14.5     |  |
| 5                       | 47.7     | 41.4                         | 20.7     |  |
| 7-1/2                   | 65.3     | 56.7                         | 28.4     |  |
| 10                      | 80.8     | 70.2                         | 35.1     |  |
| 15                      | 117.0    | 101.7                        | 50.9     |  |
| 20                      | 148.1    | 128.7                        | 64.4     |  |
| 25                      | 190.44   | 160.2                        | 80.1     |  |
| 30                      | 215.3    | 187.2                        | 93.6     |  |
| 40                      | ---      | ---                          | 120.6    |  |
| 50                      | ---      | ---                          | 150.0    |  |

**ELECTRICAL SERVICE DATA**  
**STANDARD 3-PUMP WET WELL MOUNTED PUMP STATION**

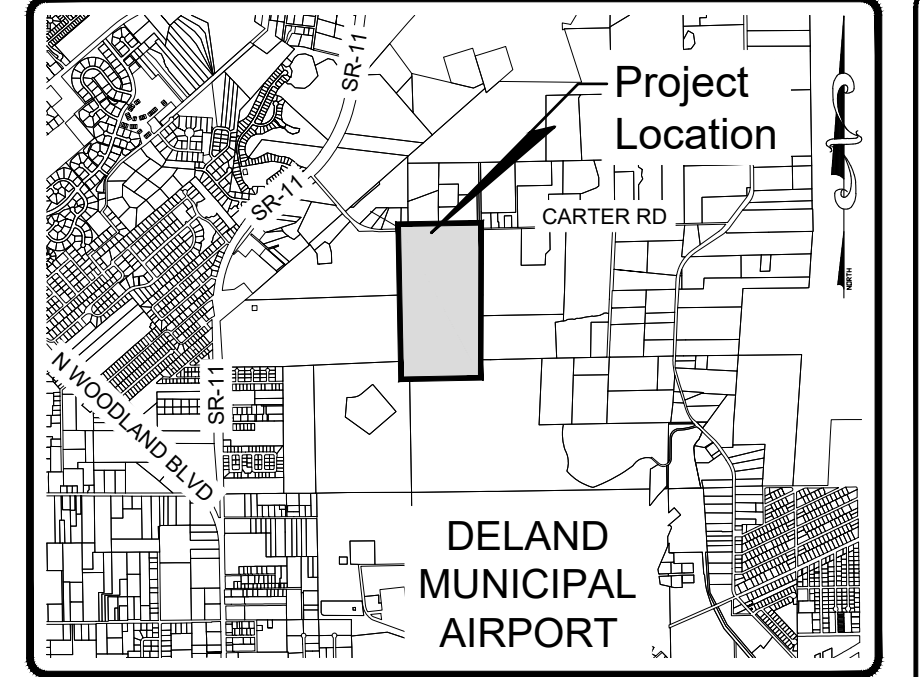
| MAIN PUMP<br>MOTOR SIZE |          | TOTAL STATION FULL LOAD AMPS |          |    |
|-------------------------|----------|------------------------------|----------|----|
| RATED HP EACH           | 208 VOLT | 230 VOLT                     | 460 VOLT |    |
| 1                       | 27.3     | 23.7                         | 11.9     |    |
| 1-1/2                   | 33.3     | 28.9                         | 14.5     |    |
| 2                       | 39.3     | 34.1                         | 17.1     |    |
| 3                       | 49.6     | 43.2                         | 21.6     |    |
| 5                       | 70.6     | 61.4                         | 30.7     |    |
| 7-1/2                   | 96.1     | 83.5                         | 41.8     |    |
| 10                      | 118.5    | 103.0                        | 51.5     |    |
| 15                      | 170.9    | 148.5                        | 74.3     |    |
| 20                      | 215.7    | 187.5                        | 93.8     |    |
| 25                      | ---      | ---                          | 116.5    |    |
| 30                      | ---      | ---                          | 136.0    |    |
| 40                      | ---      | ---                          | 175.0    | RE |
| 50                      | ---      | ---                          | 217.3    |    |





# Meadowlea Village

A COVE COMMUNITY



LOCATION MAP

SCALE: 1" = 400'

DELAND, FLORIDA

SECTION 27, TOWNSHIP 16 SOUTH, RANGE 30 EAST

## Site Information:

PROJECT NAME: MEADOWLEA VILLAGE MASTER PLAN  
PARCEL NUMBER: 6027-00-00-0110  
PROJECT LOCATION: 1004 OVERLOOK DRIVE  
DELAND, FLORIDA 32724  
PH. (904)736-1853

OWNER: MEADOWLEA VENTURE I LLC  
CONTACT: GARY TIMMONS  
TELEPHONE: (443) 497-7001  
ADDRESS: 1901 SE 58TH AVE  
OCALA, FL 34480

PROJECT ENGINEER: MICHAEL W. RADCLIFFE ENGINEERING INC.  
2811 SE LAKE WEIR AVE  
OCALA, FLORIDA 34471

TELEPHONE: (352) 629-5500  
SITE AREA: 3,812,910 SF (87.53 ACS)

APPROX ACREAGE PER PHASE AS FOLLOWS:

PHASE 1 = 1,682,152 SF (36.62 AC)  
PHASE 2 = 166,445 SF (3.82 AC)  
PHASE 3 = 911,014 SF (20.91 AC)  
PHASE 4 = 459,315 SF (10.45 AC)  
PHASE 5 = 482,455 SF (11.07 AC)  
PHASE 6 = 38,352 SF (0.88 AC)  
PHASE 7 = 43,198 SF (0.99 AC)

TOTAL = 3,812,910 SF (87.53 ACS)

ZONING: RM (RESIDENTIAL MOBILE HOME PARK)  
LAND USE: MEDIUM DENSITY RESIDENTIAL

## Notes:

- THIS PROPERTY WAS ANNEXED INTO THE CITY OF DELAND ON 11/2/2020 WITH 257 EXISTING HOME SPACES.
- MEADOWLEA VILLAGE IS A RENTAL MANUFACTURED HOME COMMUNITY WITH ALL LAND UNDER SINGLE OWNERSHIP.
- WATER/SEWER FOR EXISTING PHASES 1-3 IS PROVIDED BY MEADOWLEA VILLAGE.

## Parking Requirements:

RESIDENTIAL PARKING: 2 SPACES PER UNIT  
VISITOR PARKING: 0.25 SPACE PER UNIT

REQUIRED: 102 UNITS = 26 SPACES  
REQUIRED 1 HANDICAP SPACE PER 25 REGULAR SPACES

REQUIRED SPACES: 102 x 0.25 = 25.5  $\approx$  26 SPACES

PROVIDED SPACES: 36 SPACES

TOTAL: 34 VISITOR SPACES + 2 H.C. SPACES = 36 SPACES

## Tree Protection Area (T.P.A.):

### TPA IN EXISTING PHASES

TPA - A = 12,728 SF (0.29 AC)  
TPA - B = 26,500 SF (0.61 AC)  
TPA - C = 44,311 SF (1.02 AC)  
TPA - D = 26,500 SF (0.61 AC)  
TPA - E = 44,311 SF (1.02 AC)  
TPA - F = 133,059 SF (3.05 AC)

EXISTING TPA AREA: 328,834 SF (13.45 AC)

EXISTING LAND AREA: 2,841,160 (65.22 AC)

328,834 SF (13.45 AC) / 2,841,160 (65.22 AC) = 11.57%

### TPA IN PROPOSED PHASES

TPA - 1.0 = 69,213 SF (1.59 AC)  
TPA - 2.0 = NOT USED  
TPA - 3.0 = 120,708 SF (2.77 AC)  
TPA - 4.0 = 4,517 SF (0.10 AC)  
TPA - 5.0 = 31,516 SF (0.72 AC)

PROPOSED TPA AREA: 225,954 SF (5.19 AC)

PROPOSED LAND AREA: 971,388 SF (22.30 AC)

225,954 SF (5.19 AC) / 971,388 SF (22.30 AC) = 23.26%

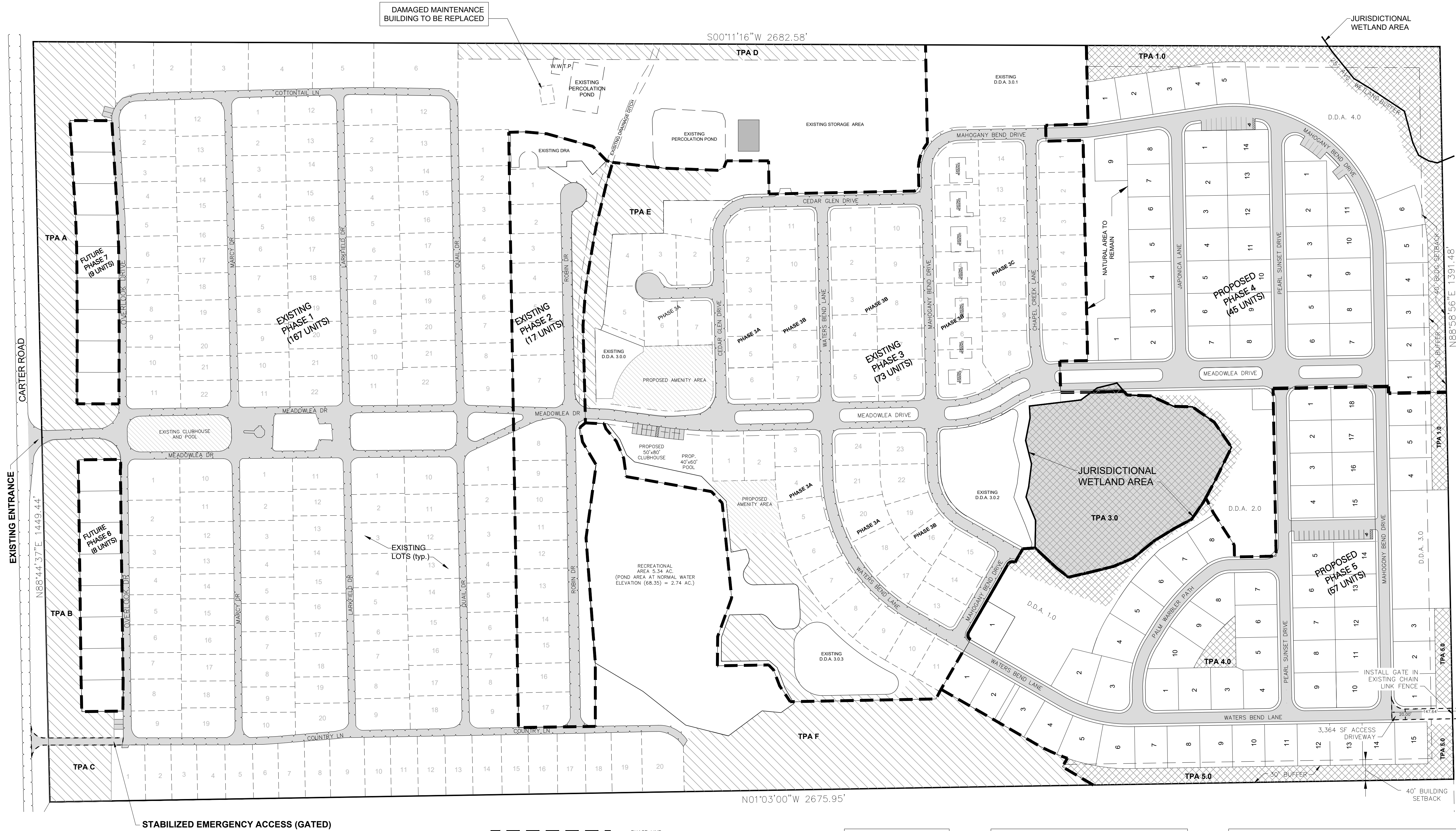
TPA OVER TOTAL PROPERTY (87.33 AC)

TOTAL LAND AREA: 3,812,905 SF (87.53 AC)

TOTAL TPA: 554,788 SF (12.74 AC)

554,788 SF (12.74 AC) / 3,812,905 SF (87.53 AC) = 14.55%

ALTHOUGH NOT REQUIRED FOR THE EXISTING PHASES, PROPOSED EXCESS TPA INCREASES THE OVERALL PROPERTY TPA TO 14.55%



DAMAGED MAINTENANCE BUILDING TO BE REPLACED

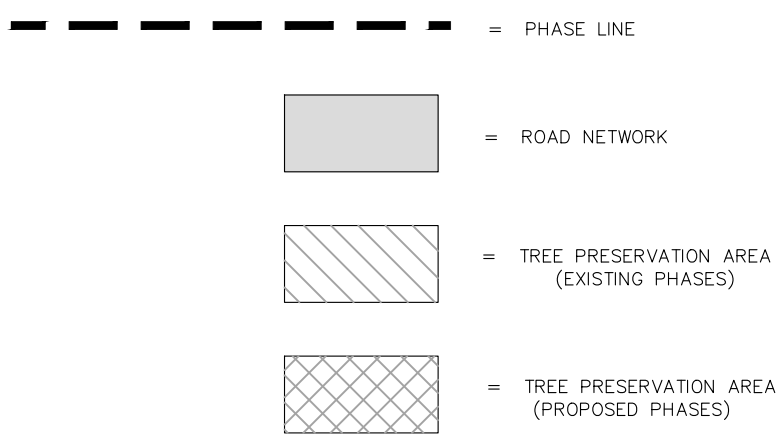
S00°11'16"W 2682.58'

JURISDICTIONAL WETLAND AREA

N88°58'56"E 1391.48'

N01°03'00"W 2675.95'

STABILIZED EMERGENCY ACCESS (GATED)



| EXISTING PHASES |          |
|-----------------|----------|
| PHASE #         | YIELD    |
| 1               | 167 LOTS |
| 2               | 17 LOTS  |
| 3               | 73 LOTS  |
| TOTAL           | 257 LOTS |

| PROPOSED PHASES |         |                      |
|-----------------|---------|----------------------|
| PHASE #         | YIELD   | ROAD LENGTH          |
| 4               | 45 LOTS | 2,654 FT (.50 MILES) |
| 5               | 57 LOTS | 2,557 FT (.48 MILES) |
| 6               | 8 LOTS  | -0-                  |
| 7               | 9 LOTS  | -0-                  |
| TOTAL           | 119     | 5211 FT (0.98 MILES) |

EXISTING + PROPOSED 257+119=376 TOTAL LOTS

| ZONING = RM RESIDENTIAL MOBILE HOME |                        |
|-------------------------------------|------------------------|
| MINIMUM WIDTH                       | 30'                    |
| MINIMUM DEPTH                       | 80'                    |
| SEPARATION FROM UNITS               | 15'                    |
| SEPARATION FROM ACCESSORY UNITS     | 10' FROM MOBILE HOMES  |
| MAXIMUM IMPERVIOUS                  | 50%                    |
| PERIMETER SETBACKS FOR MOBILE HOMES | 40' FROM PROPERTY LINE |
| SETBACKS FOR MOBILE HOMES           | 15' FROM LOT LINES     |
| ACCESSORY STRUCTURE SETBACKS        | 7.5' FROM LOT LINES    |

|          |                                   |
|----------|-----------------------------------|
| Date:    | 3/27/23                           |
| By:      | BIL                               |
| Revised: | REVISED PER Q1 OF DELAND COMMENTS |

|          |            |
|----------|------------|
| Scale:   | 1" = 100'  |
| Project: | 2022-04    |
| Date:    | 10-14-2022 |

|           |                               |
|-----------|-------------------------------|
| Designed: | MWR                           |
| Drawn:    | BIL                           |
| Checked:  | MWR                           |
| File:     | Meadowlea Village Ph. 4-7.dwg |



|               |                           |
|---------------|---------------------------|
| Project Name: | Meadowlea Village Ph. 4&5 |
| Sheet Name:   | Master Plan               |

|            |              |
|------------|--------------|
| Sheet No.: | M001 of M001 |
|------------|--------------|





| Pack Joint for Copper or Plastic Tubing (CTS) Inlet<br>by Meter Swivel Nut |             |                 |                             |                     |
|----------------------------------------------------------------------------|-------------|-----------------|-----------------------------|---------------------|
| CATALOG<br>NUMBER                                                          | VALVE SIZE  | SERV. LINE SIZE | METER SIZE                  | APPROX.<br>WT. LBS. |
| B43-211W-NL                                                                | 5/8"        | 1/2"            | 5/8"                        | 1.6                 |
| B43-212W-NL                                                                | 5/8"        | 1/2"            | 5/8"x3/4" & 3/4"            | 1.5                 |
| ► B43-231W-NL                                                              | 5/8"        | 3/4"            | 5/8"                        | 1.6                 |
| ► B43-232W-NL                                                              | 5/8"        | 3/4"            | 5/8"x3/4" & 3/4"            | 1.7                 |
| ► B43-331W-NL                                                              | 3/4"        | 3/4"            | 5/8"                        | 2.1                 |
| ► B43-332W-NL                                                              | 3/4"        | 3/4"            | 5/8"x3/4" & 3/4"            | 2.3                 |
| ► B43-334W-NL                                                              | 3/4"        | 3/4"            | 1"                          | 2.4                 |
| ► B43-341W-NL                                                              | 3/4"        | 1"              | 5/8"                        | 2.7                 |
| ► B43-342W-NL                                                              | <b>3/4"</b> | <b>1"</b>       | <b>5/8"x3/4" &amp; 3/4"</b> | <b>2.4</b>          |
| ► B43-344W-NL                                                              | 3/4"        | 1"              | 1"                          | 2.7                 |
| ► B43-444W-NL                                                              | 1"          | 1"              | 1"                          | 3.2                 |
| B43-454W-NL                                                                | 1"          | 1-1/4"          | 1"                          | 3.4                 |

| Pack Joint for Copper or Plastic Tubing (CTS)<br>by Female Iron Pipe Thread       |                     |               |            |            |                     |
|-----------------------------------------------------------------------------------|---------------------|---------------|------------|------------|---------------------|
|                                                                                   | CATALOG<br>NUMBER   | VALVE<br>SIZE | CTS<br>END | FIP<br>END | APPROX.<br>WT. LBS. |
|  | ► * B41-333-NL      | 3/4"          | 3/4"       | 3/4"       | 2.0                 |
|                                                                                   | ► * B41-334-NL      | 3/4"          | 3/4"       | 1"         | 2.1                 |
|                                                                                   | ► * B41-343-NL      | 3/4"          | 1"         | 3/4"       | 2.2                 |
|                                                                                   | ► * B41-344-NL      | 3/4"          | 1"         | 1"         | 2.4                 |
|                                                                                   | ► BL41-344-4-875-NL | 3/4"          | 1"         | 1"         | 3.1                 |
|                                                                                   | ► * B41-444-NL      | 1"            | 1"         | 1"         | 2.8                 |
|                                                                                   | ► * B41-454-NL      | 1"            | 1-1/4"     | 1"         | 3.2                 |
|                                                                                   | ► * B41-455-NL      | 1"            | 1-1/4"     | 1-1/4"     | 3.7                 |
|                                                                                   | ► * B41-555-NL      | 1-1/4"        | 1-1/4"     | 1-1/4"     | 5.6                 |
|                                                                                   | **B41-566-NL        | 1-1/2"        | 1-1/2"     | 1-1/2"     | 7.0                 |
|                                                                                   | B41-677-NL          | 1-1/2"        | 2"         | 2"         | 9.6                 |
|                                                                                   | **B41-777-NL        | 2"            | 2"         | 2"         | 11.1                |



**Mueller 300 Ball Straight Meter Valve**  
 Mueller Pack Joint Connection for CTS  
 O.D.\* tubing x meter swivel nut\*\*.

*Quarter turn check - lock wing. 360° turn option available by adding -3 suffix to catalog number.*

Example: P-24350-3

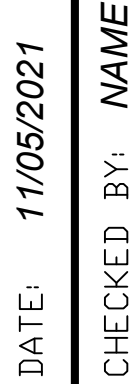
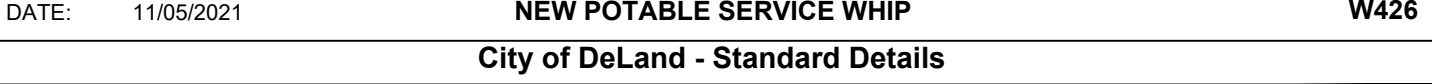
| P-24350N     |              |                 |                 |                 |          |
|--------------|--------------|-----------------|-----------------|-----------------|----------|
| Catalog size | 3/4"x5/8" R† | 3/4" R†         | 3/4"            | 5/8"x3/4"x1†    | 1" R† 1" |
| Meter size   | 5/8"         | 5/8"x3/4", 3/4" | 5/8"x3/4", 3/4" | 5/8"x3/4", 3/4" | 1" 1"    |
| Tubing size  | 3/4"         | 3/4"            | 3/4"            | 1"              | 1" 1"    |



**Mueller 300 Ball Curb Valve**  
**Inlet:** Mueller Pack Joint  
 Connection for CTS O.D.\* tubing  
**Outlet:** F.I.P. thread  
*Quarter turn check-this valve may be ordered with 360° turn option by adding -.3 to end of catalog number*  
 (P-25172-3)

**P-25172N**

|       |      |     |    |        |           |
|-------|------|-----|----|--------|-----------|
| 3/4"R | 3/4" | 1"R | 1" | 1-1/2" | <b>2"</b> |
|-------|------|-----|----|--------|-----------|



FILE: *drive letter/details locations*



3M LOCATING MARKER BALLS PROGRAMMABLE AND NON-PROGRAMMABLE NOTES:

- Programmable and Non-Programmable Marking Balls will be used on all Sewer, Potable and Reclaim projects
- For information on the Programmable and Non-Programmable Balls that the City requires see spec sheet for details
- Programmable Balls will be placed at all fittings ie. Tees, Couplings, 90, 45, and 22.
- Information will be recorded on a spread sheet. For information that needs to be recorded see spec sheet for an example template for the 3M Marker Balls
- Non-Programmable Marking Balls will used as follow:

- Potable: End of Service Line when buried
- Wastewater: Ball will be placed at the curb line to mark lateral location prior to end of service.
- Reclaim: End of Service Line when buried

- Desired bury depth is 1.5 feet to 3 feet. Five foot is the maximum depth for these devices

1420-LOCATER FOR MARKER BALLS

3M™ Dynatel™ Electronic Marker System (EMS) Marker Locators 1420 series is microprocessor-based systems that quickly and efficiently locate underground markers—years after construction or maintenance. -

The 3M™ Dynatel™ 1420 Marker Locators are designed to be accurate, fast and integrated allowing you to accurately and easily:

- Locate, read and write to 3M iD markers
- Pinpoint the depth and location of all existing models of properly installed underground passive EMS markers
- Conduct direct depth reading of markers
- Locate two different marker frequencies simultaneously

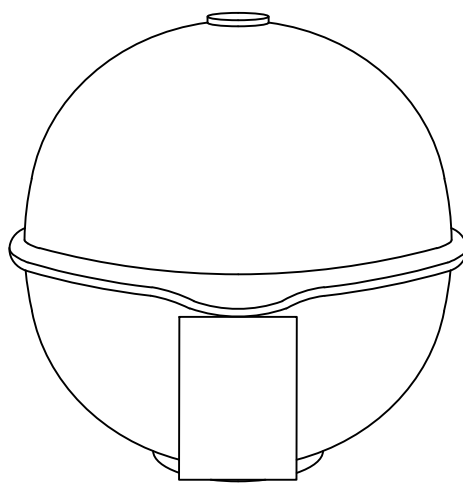
Specifications

2200RB Rechargeable Battery Not Included  
Cable/Pipe Locate No  
Carrying Bag Included No  
Coupler Size No Coupler  
Direct Connect Cable N/A  
EMS Caution Tape Finding Capability No  
Family 1420 Series  
Fault Finding Capability No

2200RB Rechargeable Battery Not Included  
Cable/Pipe Locate No  
Carrying Bag Included No  
Coupler Size No Coupler  
Direct Connect Cable N/A  
EMS Caution Tape Finding Capability No  
Family 1420 Series  
Fault Finding Capability No  
Locator Type Marker

3M DYNATEL LOCATING AND MARKING ELECTRONIC MARKER SYSTEM:

1423-XR/ID-POTABLE



The 3M™ EMS Extended-Range Ball Markers have a self-leveling design providing accurate, horizontal position regardless of how it is placed in the ground, making the job of precisely locating underground facilities easier.

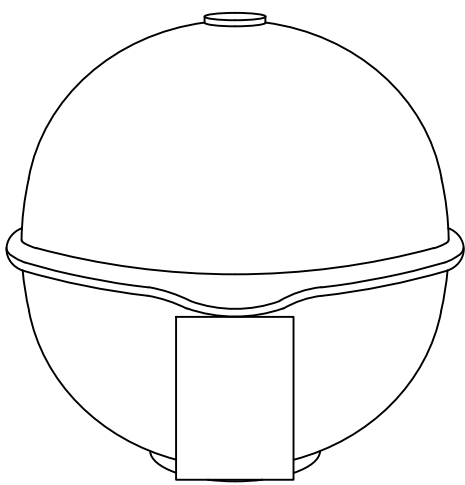
Featured Benefits

- Positive identification of underground water facilities
- iD Marker allows for programming of customer specific information
- Unique self leveling design simplifies installation
- No external power source needed
- Resistant to elements
- 5 foot (1.5 meter) detection distance
- Color conforms to APWA standards

SPECIFICATIONS:

COLOR: BLUE  
DIAMETER (METRIC): 10.4 CM  
EMS CAUTION TAPE FINDING CAPABILITY: N/A  
MARKER DEPTH: 5 FEET (1.5M)  
MARKER DIMENSION (INCH): 4 INCH DIAMETER  
MARKER TYPE: BALL  
PROGRAMMABLE/PASSIVE: PROGRAMMABLE  
RANGE: 0 TO 5 LINEAR FOOT  
RoHS 2011/65/EU Compliant: UNDETERMINED  
RoHS EU Comments: CONTACT 3M FOR INFORMATION  
Solution for: ACCESS NETWORK: FTTH/FTTB/CATV  
ACCESS NETWORK: xDSL, LONG-HAUL/METRO  
LOOP NETWORK: OUTDOOR  
WIRELESS NETWORK: BACKHAUL

1424-XR/ID-SEWER



The 3M™ EMS Extended-Range Ball Markers have a self-leveling design providing accurate, horizontal position regardless of how it is placed in the ground, making the job of precisely locating underground facilities easier.

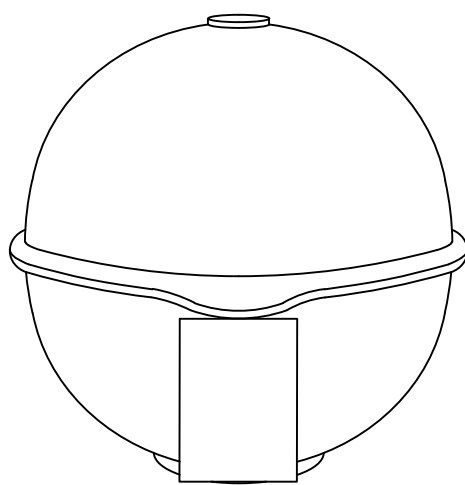
Featured Benefits

- Positive identification of underground wastewater facilities
- iD Marker allows for programming of customer specific information
- Unique self leveling design simplifies installation
- No external power source needed
- Resistant to elements
- 5 foot (1.5 meter) detection distance
- Color conforms to APWA standards

SPECIFICATIONS:

COLOR: GREEN  
DIAMETER (METRIC): 10.4 CM  
EMS CAUTION TAPE FINDING CAPABILITY: N/A  
MARKER DEPTH: 5 FEET (1.5M)  
MARKER DIMENSION (INCH): 4 INCH DIAMETER  
MARKER TYPE: BALL  
NUMBER OF FREQUENCIES: N/A  
PROGRAMMABLE/PASSIVE: PROGRAMMABLE  
RANGE: 0 TO 5 LINEAR FOOT  
RoHS 2011/65/EU Compliant: UNDETERMINED  
RoHS EU Comments: CONTACT 3M FOR INFORMATION  
Solution for: ACCESS NETWORK: FTTH/FTTB/CATV  
ACCESS NETWORK: xDSL, LONG-HAUL/METRO  
LOOP NETWORK: OUTDOOR  
WIRELESS NETWORK: BACKHAUL

1428-XR/ID-RECLAIMED



The 3M™ EMS Extended-Range Ball Markers have a self-leveling design providing accurate, horizontal position regardless of how it is placed in the ground, making the job of precisely locating underground facilities easier.

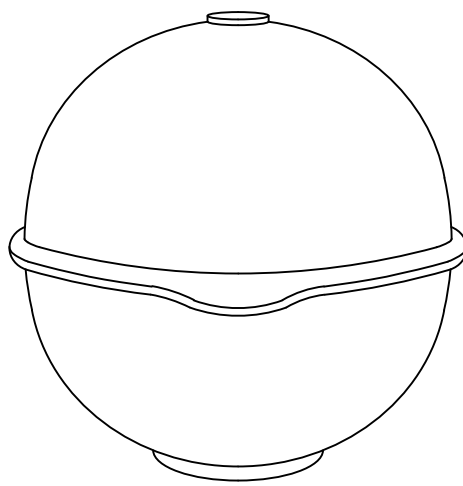
Featured Benefits

- Positive identification of underground general purpose / reclaimed water facilities
- iD Marker allows for programming of customer specific information
- Unique self leveling design simplifies installation
- No external power source needed
- Resistant to elements
- 5 foot (1.5 meter) detection distance
- Color conforms to APWA standards

SPECIFICATIONS:

COLOR: PURPLE  
DIAMETER (METRIC): 10.4 CM  
EMS CAUTION TAPE FINDING CAPABILITY: N/A  
MARKER DEPTH: 5 FEET (1.5M)  
MARKER DIMENSION (INCH): 4 INCH DIAMETER  
MARKER TYPE: BALL  
NUMBER OF FREQUENCIES: N/A  
PROGRAMMABLE/PASSIVE: PROGRAMMABLE  
RANGE: 0 TO 5 LINEAR FOOT  
RoHS 2011/65/EU Compliant: UNDETERMINED  
RoHS EU Comments: CONTACT 3M FOR INFORMATION  
Solution for: ACCESS NETWORK: FTTH/FTTB/CATV  
ACCESS NETWORK: xDSL, LONG-HAUL/METRO  
LOOP NETWORK: OUTDOOR  
WIRELESS NETWORK: BACKHAUL

1403-XR-POTABLE



The 3M™ EMS Extended-Range Ball Markers have a self-leveling design providing accurate, horizontal position regardless of how it is placed in the ground, making the job of precisely locating underground facilities easier.

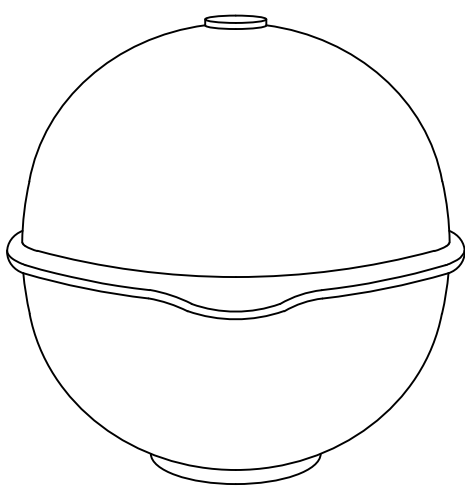
Featured Benefits

- Positive identification of underground water facilities
- Unique self leveling design simplifies installation
- No external power source needed
- Resistant to elements
- 5 foot (1.5 meter) detection distance
- Color conforms to APWA standards

SPECIFICATIONS:

COLOR: BLUE  
DIAMETER (METRIC): 10.4 CM  
EMS CAUTION TAPE FINDING CAPABILITY: N/A  
MARKER DEPTH: 5 FEET (1.5M)  
MARKER DIMENSION (INCH): 4 INCH DIAMETER  
MARKER TYPE: BALL  
NUMBER OF FREQUENCIES: N/A  
PROGRAMMABLE/PASSIVE: PASSIVE  
RANGE: 0 TO 5 LINEAR FOOT  
RoHS 2011/65/EU Compliant: UNDETERMINED  
RoHS EU Comments: CONTACT 3M FOR INFORMATION  
Solution for: ACCESS NETWORK: FTTH/FTTB/CATV  
ACCESS NETWORK: xDSL, LONG-HAUL/METRO  
LOOP NETWORK: OUTDOOR  
WIRELESS NETWORK: BACKHAUL

1404-XR-SEWER



The 3M™ EMS Extended-Range Ball Markers have a self-leveling design providing accurate, horizontal position regardless of how it is placed in the ground, making the job of precisely locating underground facilities easier.

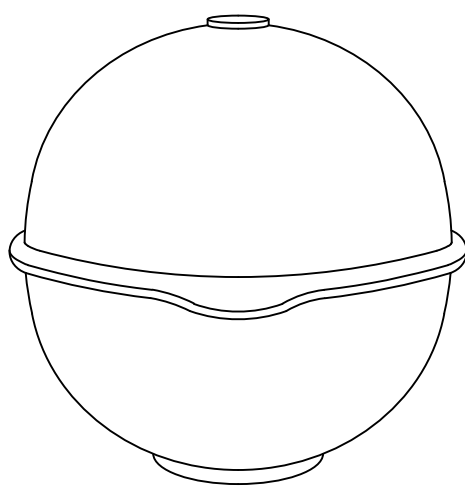
Featured Benefits

- Positive identification of underground wastewater facilities
- Unique self leveling design simplifies installation
- No external power source needed
- Resistant to elements
- 5 foot (1.5 meter) detection distance
- Color conforms to APWA standards

SPECIFICATIONS:

COLOR: GREEN  
DIAMETER (METRIC): 10.4 CM  
EMS CAUTION TAPE FINDING CAPABILITY: N/A  
MARKER DEPTH: 5 FEET (1.5M)  
MARKER DIMENSION (INCH): 4 INCH DIAMETER  
MARKER TYPE: BALL  
NUMBER OF FREQUENCIES: N/A  
PROGRAMMABLE/PASSIVE: PASSIVE  
RANGE: 0 TO 5 LINEAR FOOT  
RoHS 2011/65/EU Compliant: UNDETERMINED  
RoHS EU Comments: CONTACT 3M FOR INFORMATION  
Solution for: ACCESS NETWORK: FTTH/FTTB/CATV  
ACCESS NETWORK: xDSL, LONG-HAUL/METRO  
LOOP NETWORK: OUTDOOR  
WIRELESS NETWORK: BACKHAUL

1408-XR-RECLAIMED



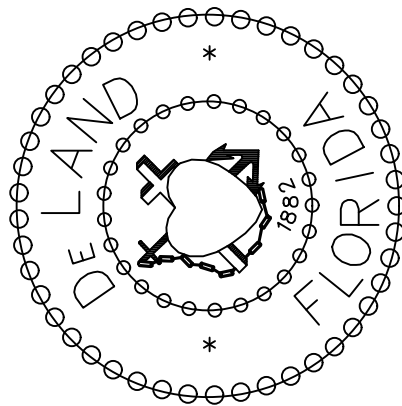
The 3M™ EMS Extended-Range Ball Markers have a self-leveling design providing accurate, horizontal position regardless of how it is placed in the ground, making the job of precisely locating underground facilities easier.

Featured Benefits

- Positive identification of underground general purpose facilities
- Unique self leveling design simplifies installation
- No external power source needed
- Resistant to elements
- 5 foot (1.5 meter) detection distance
- Color conforms to APWA standards

SPECIFICATIONS:

COLOR: PURPLE  
DIAMETER (METRIC): 10.4 CM  
EMS CAUTION TAPE FINDING CAPABILITY: N/A  
MARKER DEPTH: 5 FEET (1.5M)  
MARKER DIMENSION (INCH): 4 INCH DIAMETER  
MARKER TYPE: BALL  
NUMBER OF FREQUENCIES: N/A  
PROGRAMMABLE/PASSIVE: PASSIVE  
RANGE: 0 TO 5 LINEAR FOOT  
RoHS 2011/65/EU Compliant: UNDETERMINED  
RoHS EU Comments: CONTACT 3M FOR INFORMATION  
Solution for: ACCESS NETWORK: FTTH/FTTB/CATV  
ACCESS NETWORK: xDSL, LONG-HAUL/METRO  
LOOP NETWORK: OUTDOOR  
WIRELESS NETWORK: BACKHAUL



CITY OF DELAND, FLORIDA  
1102 S. GARFIELD AVENUE, DELAND, FLORIDA 32724

DATE: 11/05/2021  
CHECKED BY: ERIC M. SAMPSON

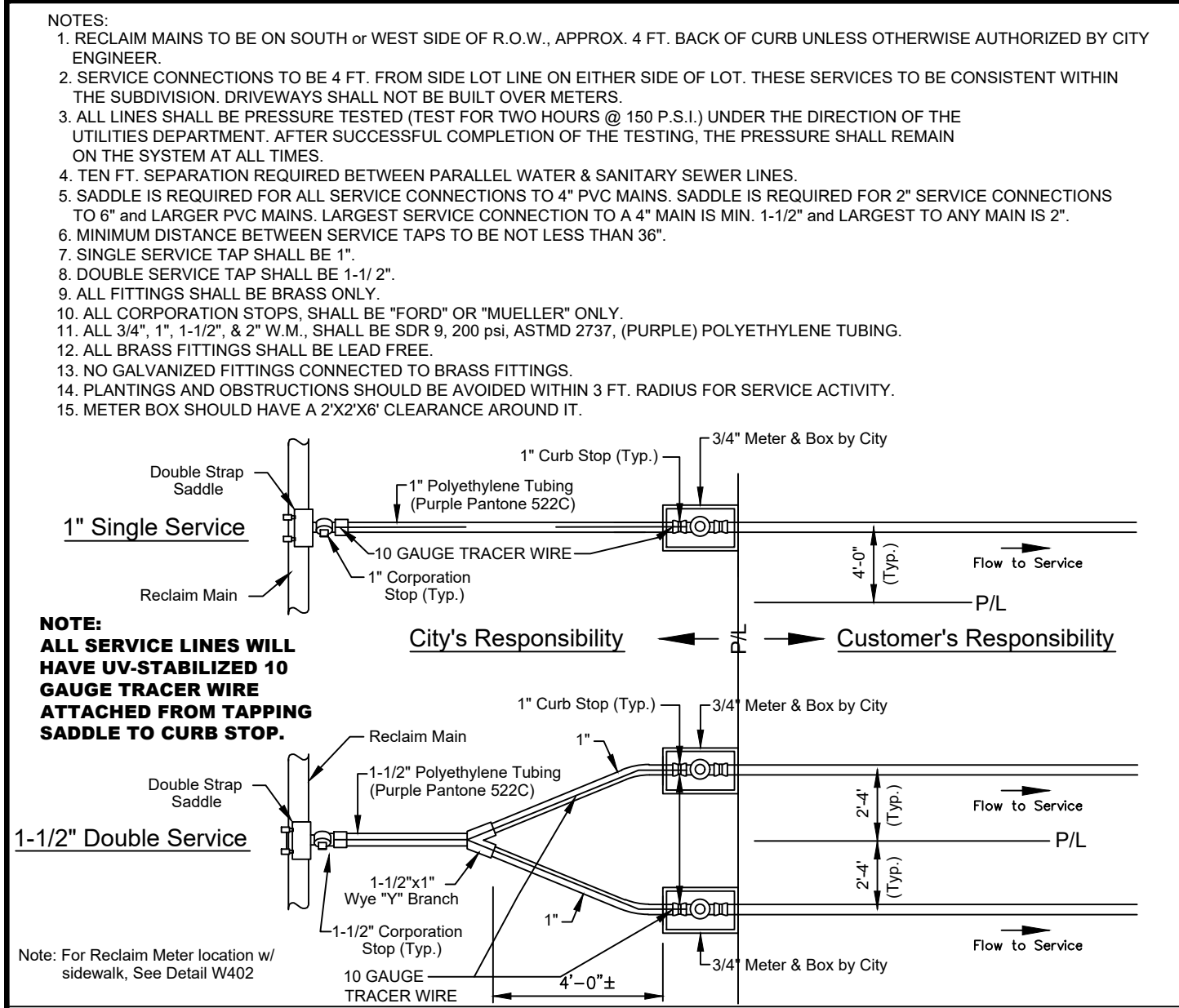
SCALE: NOT TO SCALE  
DRAWN BY: MARK LA GRECA

UTILITY MARKER BALL LOCATORS

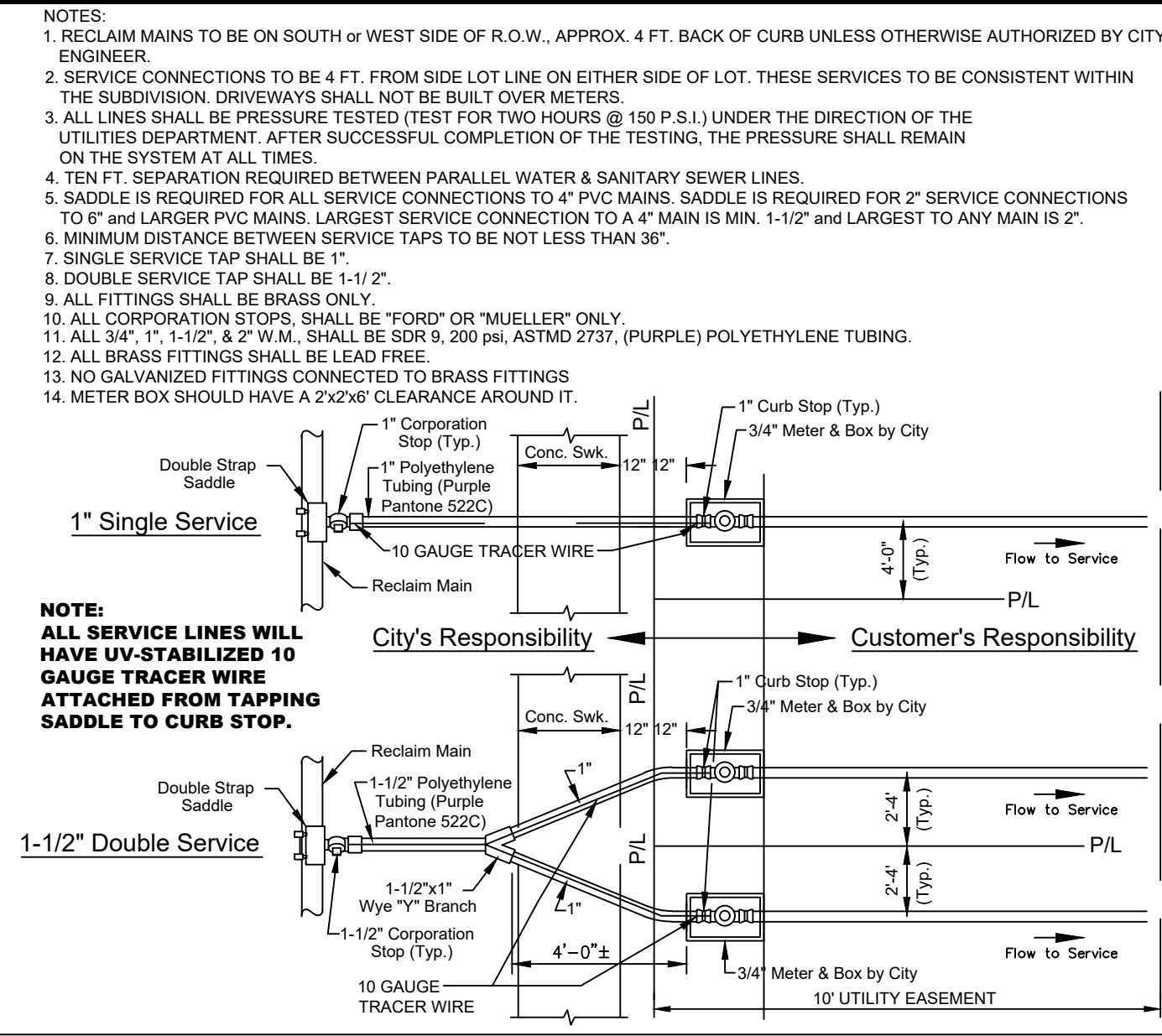
TITLE:

FILE: drive letter/details locations

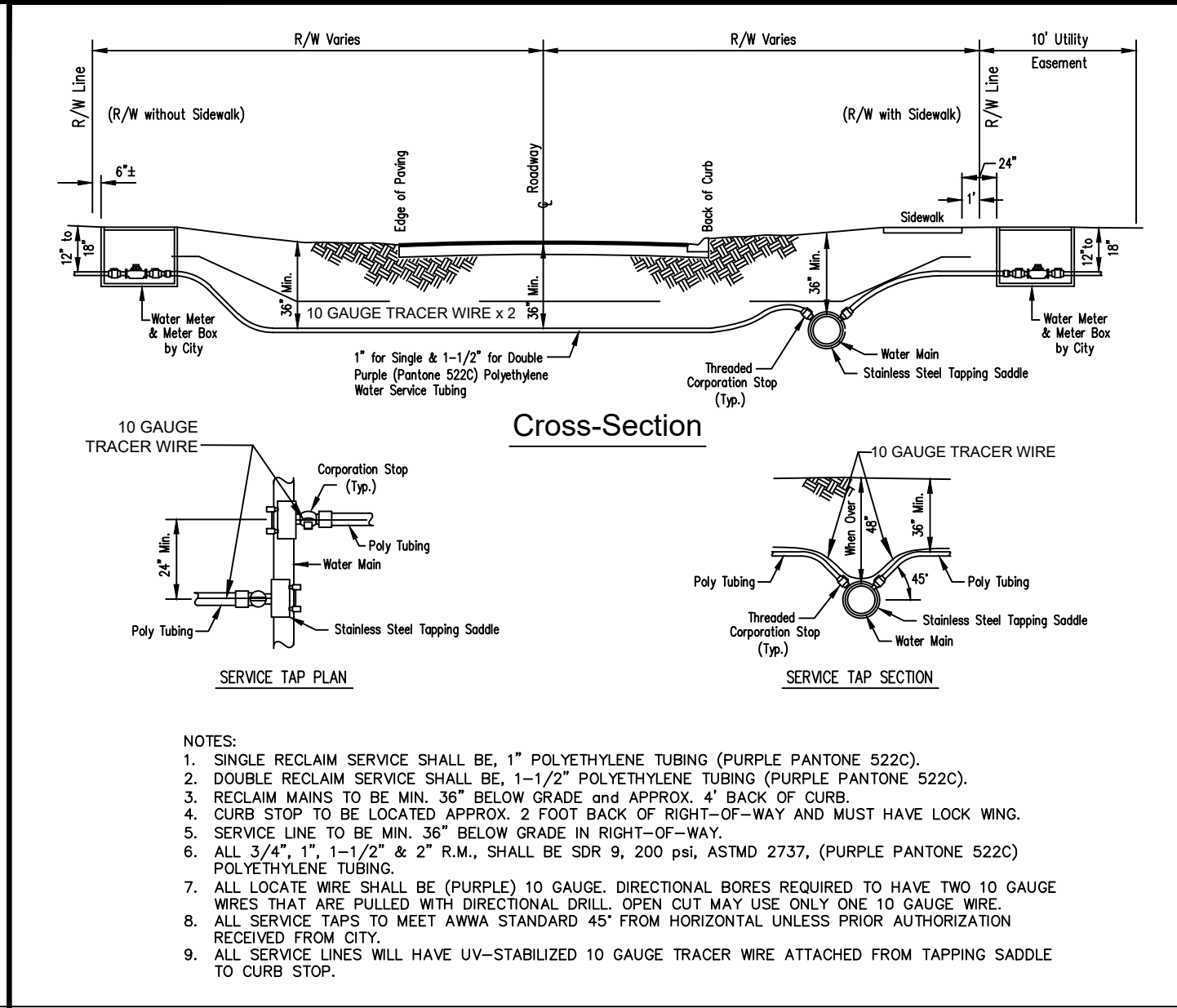




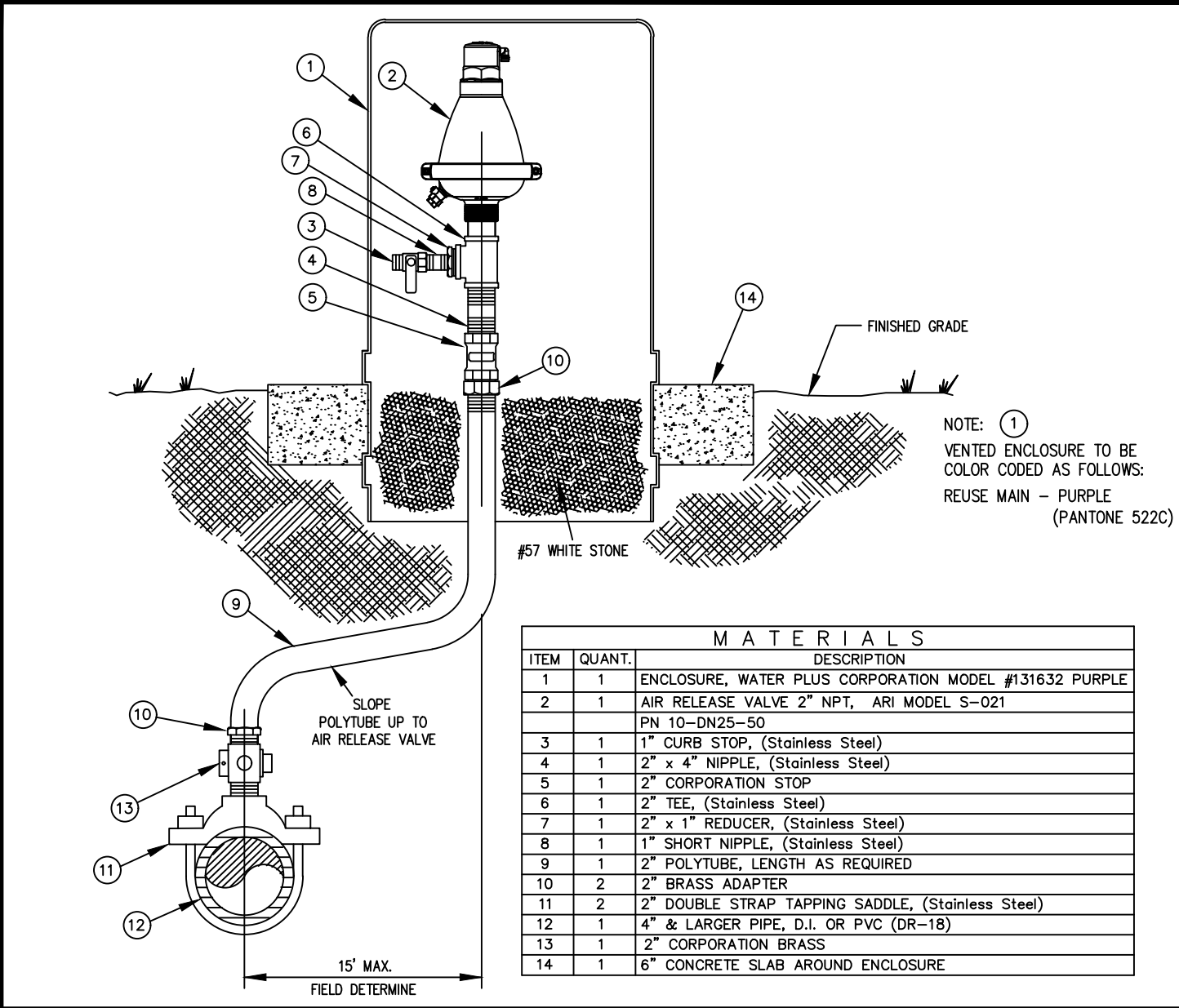
DATE: 11/05/2021  
**RECLAIM MAIN SERVICE CONNECTION**  
**City of DeLand - Standard Details**



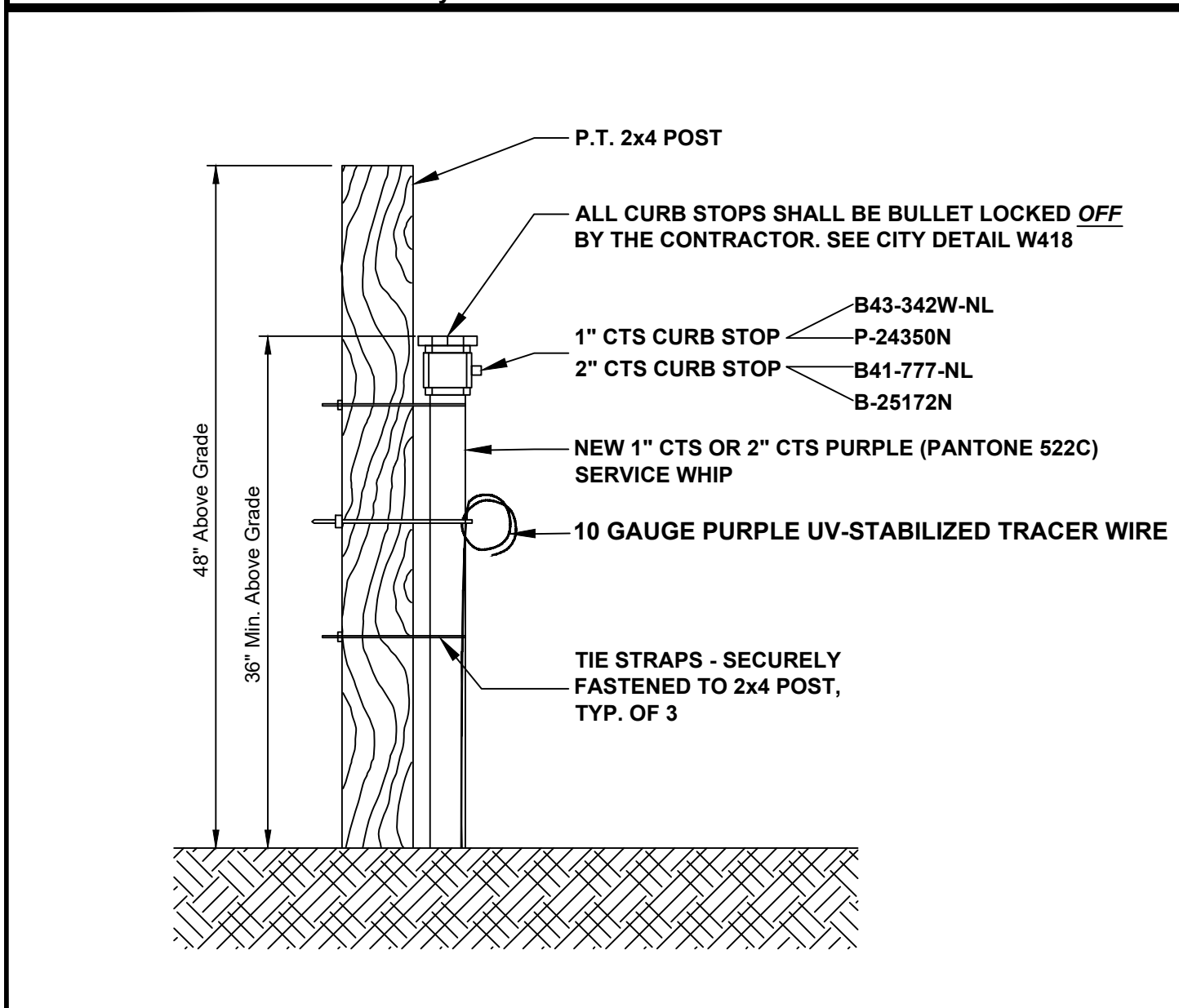
DATE: 11/05/2021  
**RECLAIM MAIN SERVICE CONN. WITH SIDEWALK**  
**City of DeLand - Standard Details**



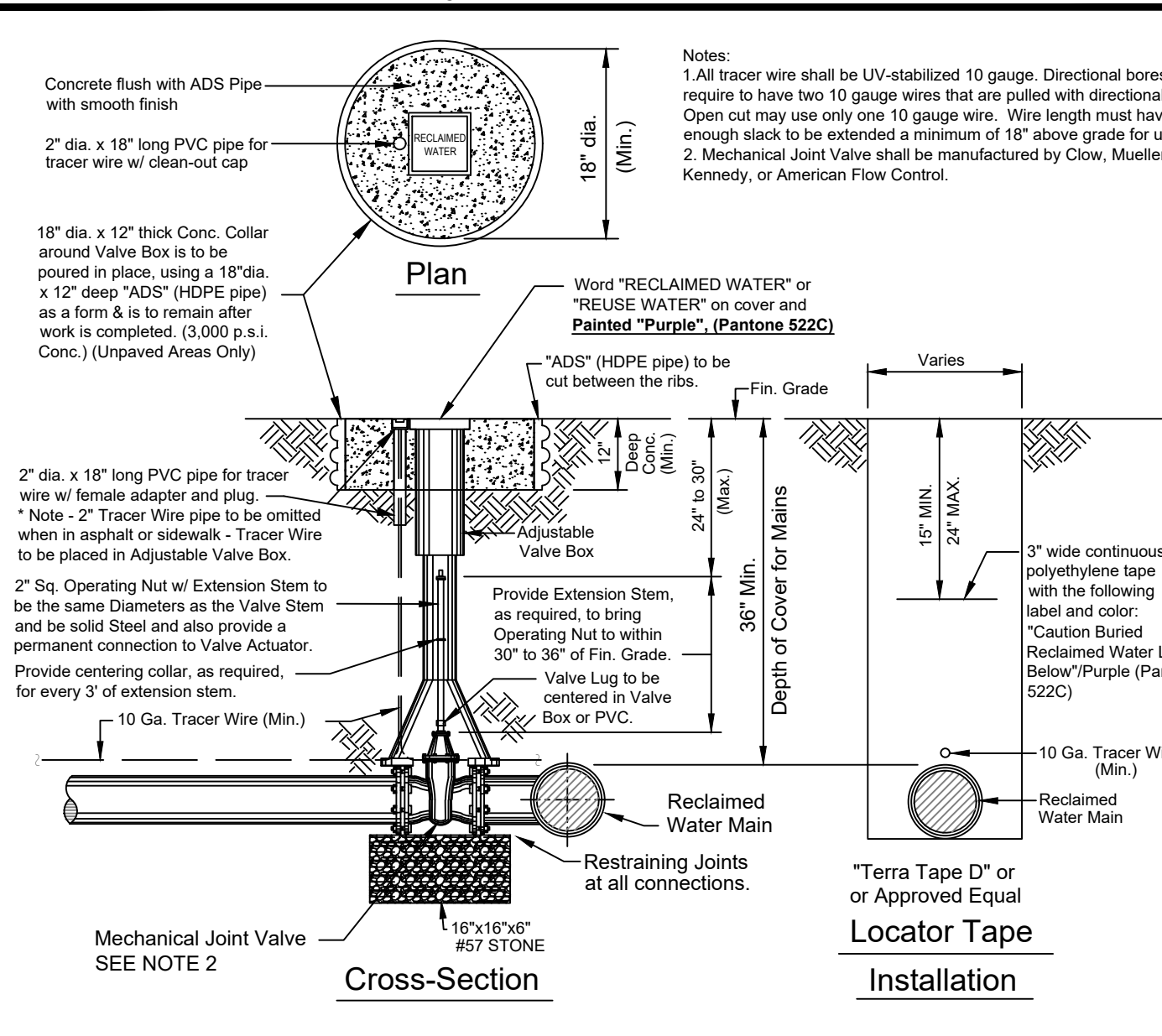
DATE: 11/05/2021  
**RECLAIM MAIN SERVICE LINES**  
**City of DeLand - Standard Details**



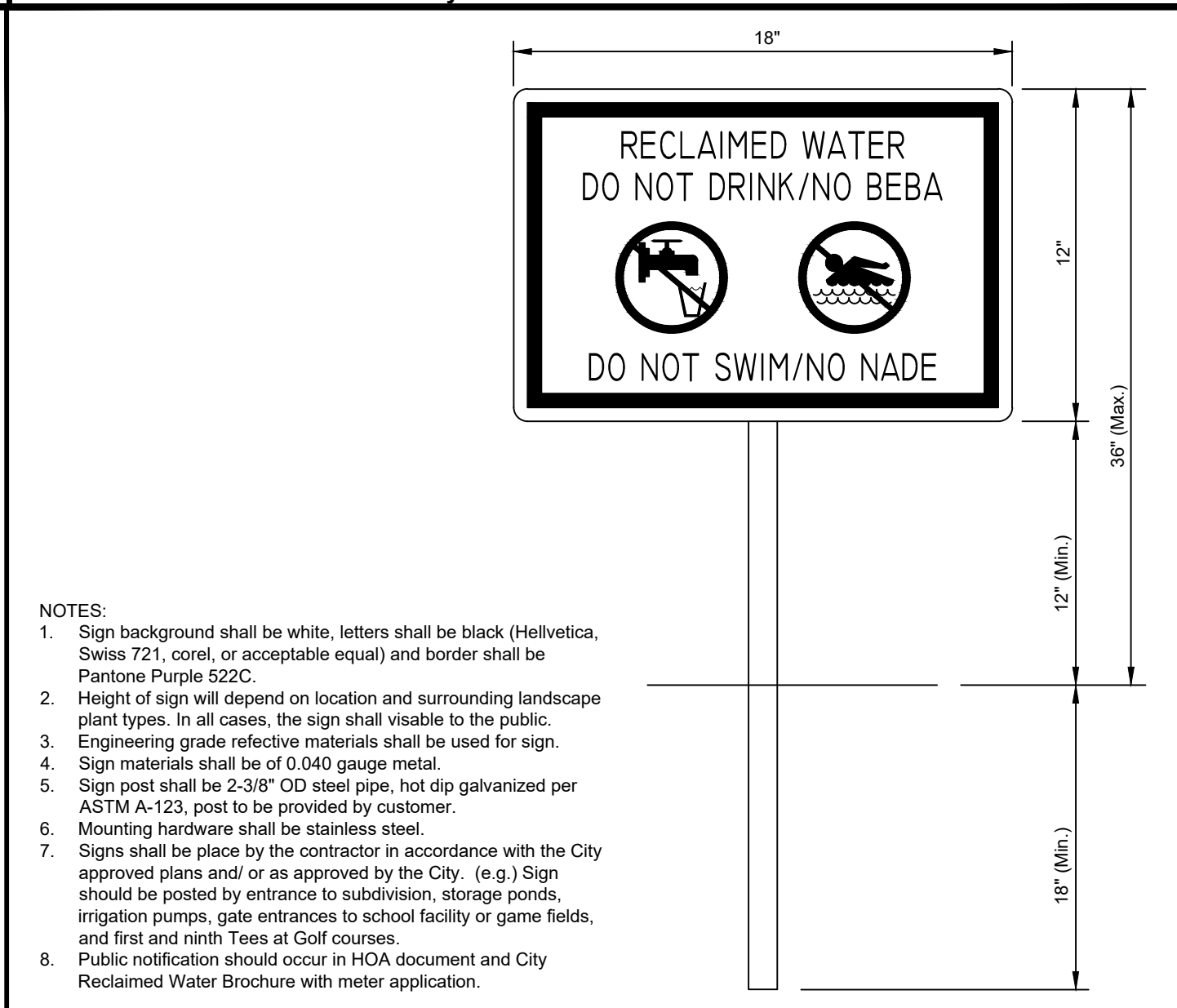
DATE: 11/05/2021  
**OFFSET AIR RELEASE VALVE**  
**City of DeLand - Standard Details**



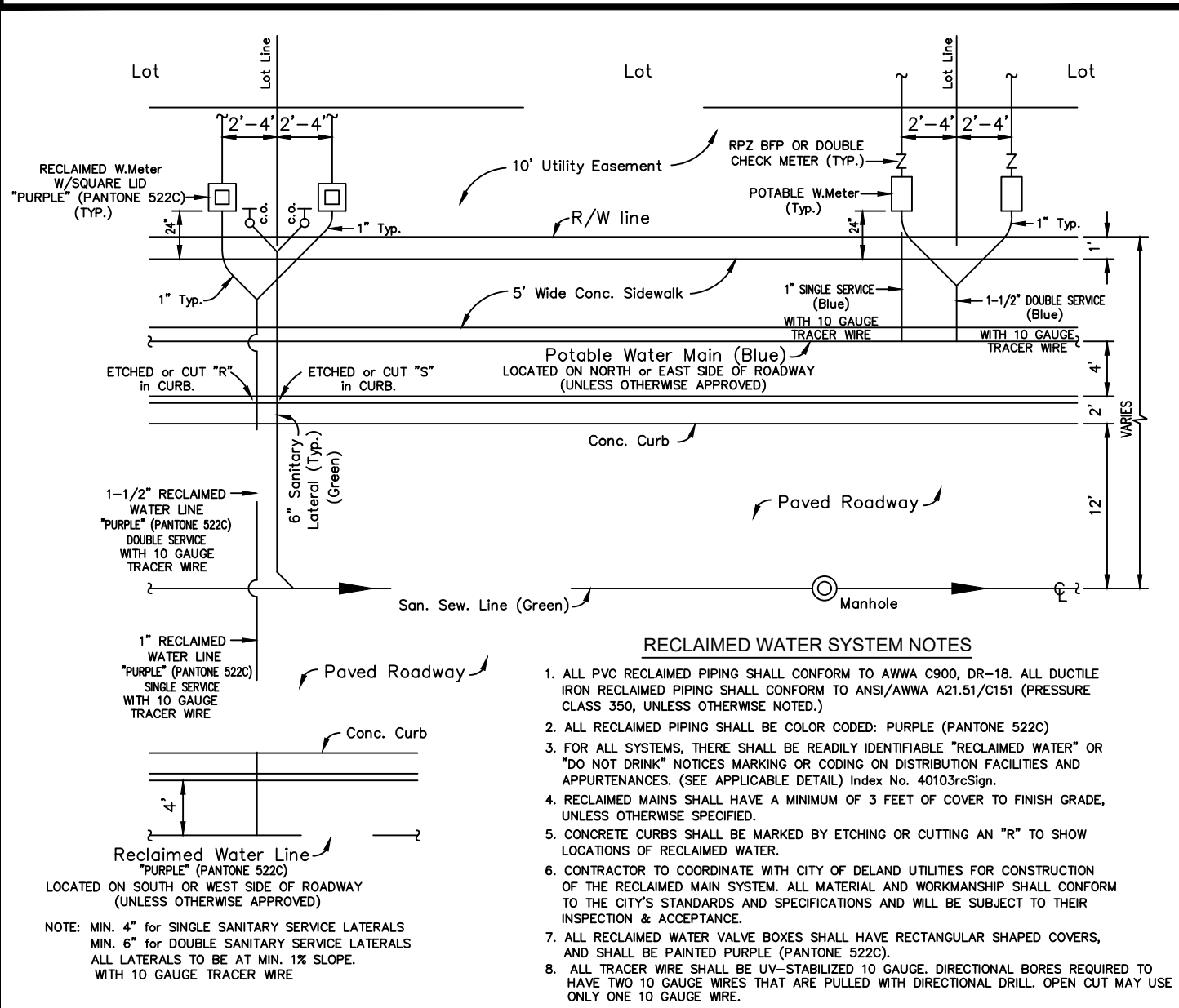
DATE: 11/05/2021  
**NEW REUSE SERVICE WHIP**  
**City of DeLand - Standard Details**



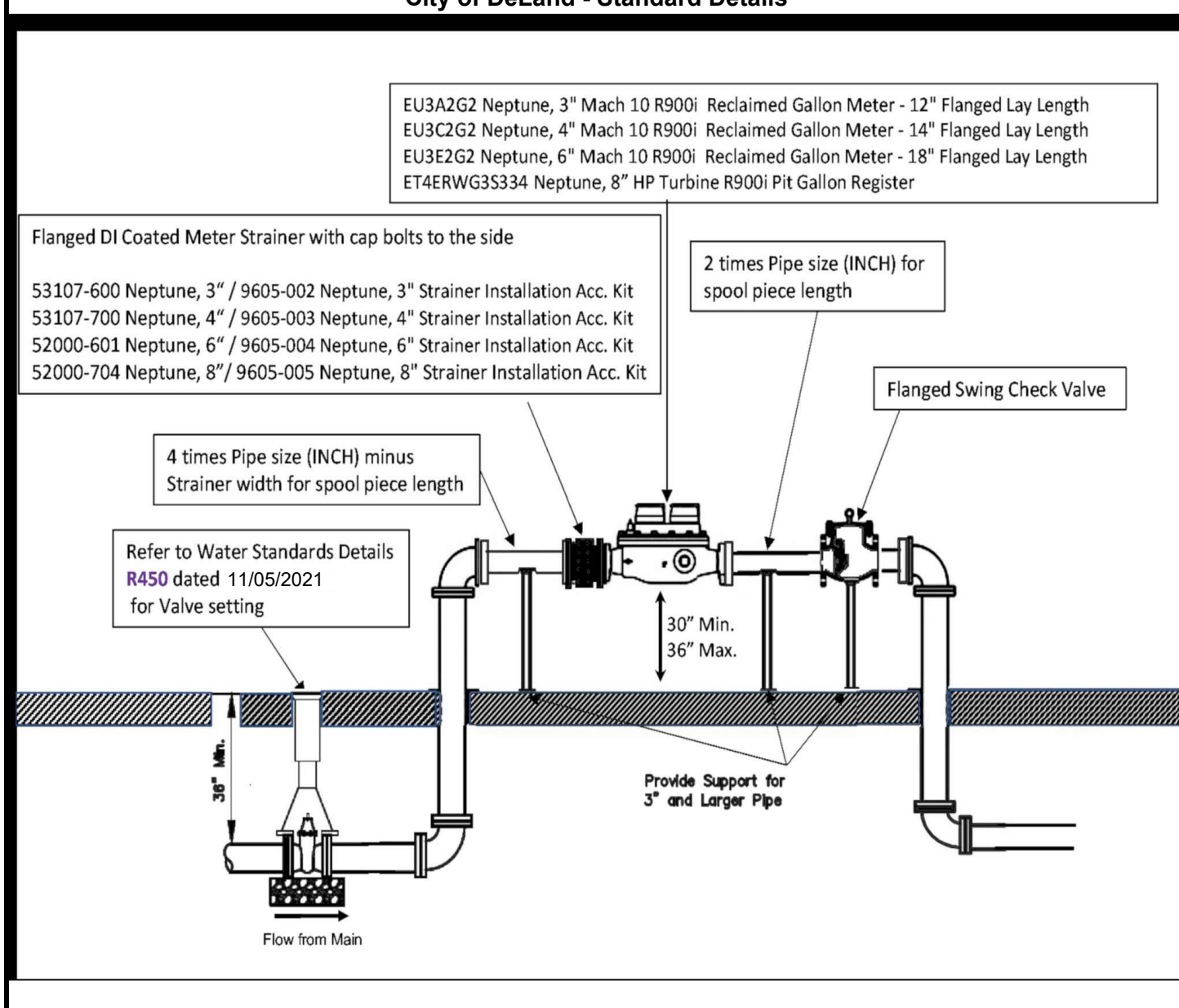
DATE: 11/05/2021  
**RECLAIMED WATER VALVE SETTING**  
**City of DeLand - Standard Details**



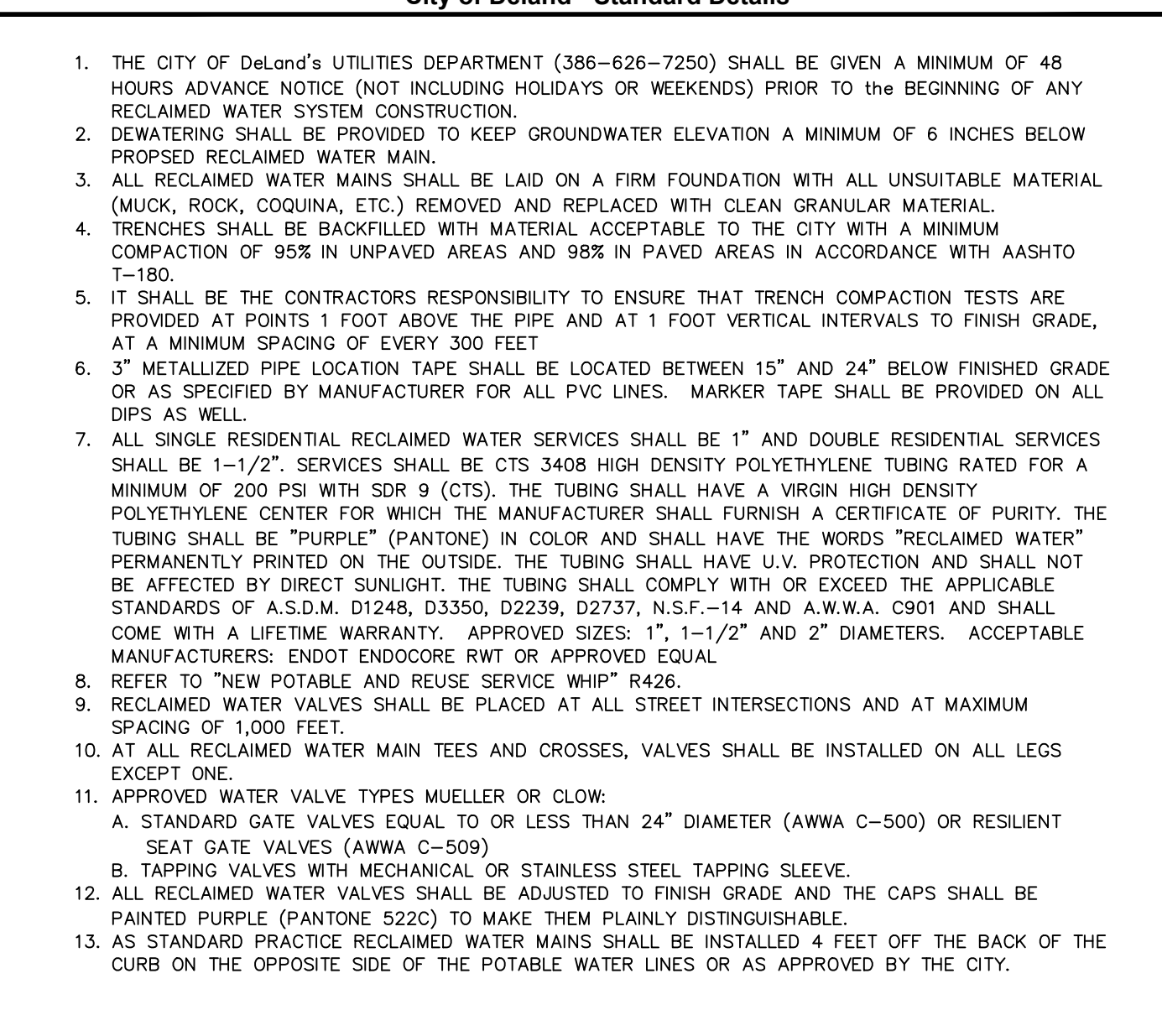
DATE: 11/05/2021  
**RECLAIMED WATER SIGNAGE**  
**City of DeLand - Standard Details**



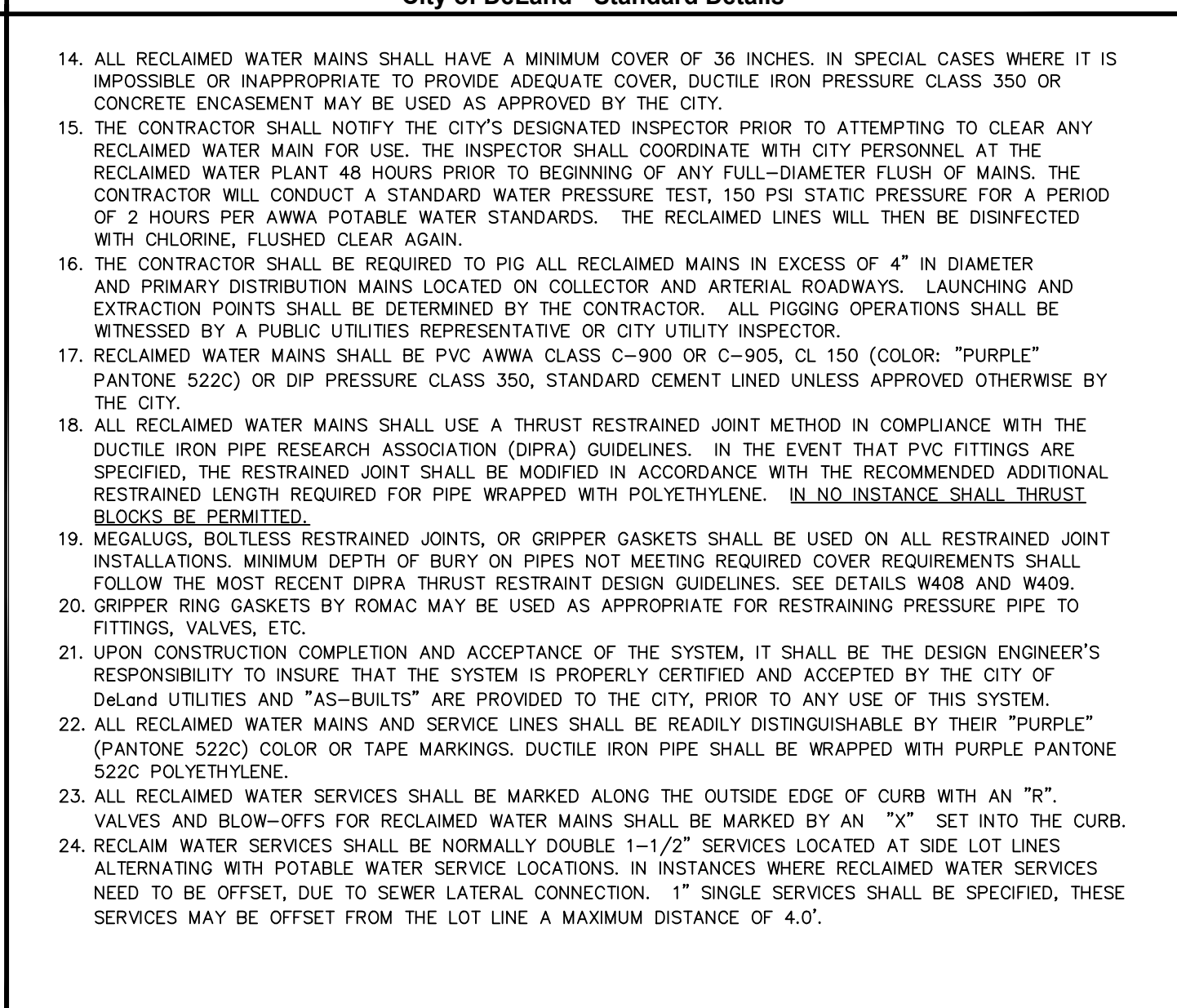
DATE: 11/05/2021  
**RECLAIMED WATER SYSTEM LAYOUT**  
**City of DeLand - Standard Details**



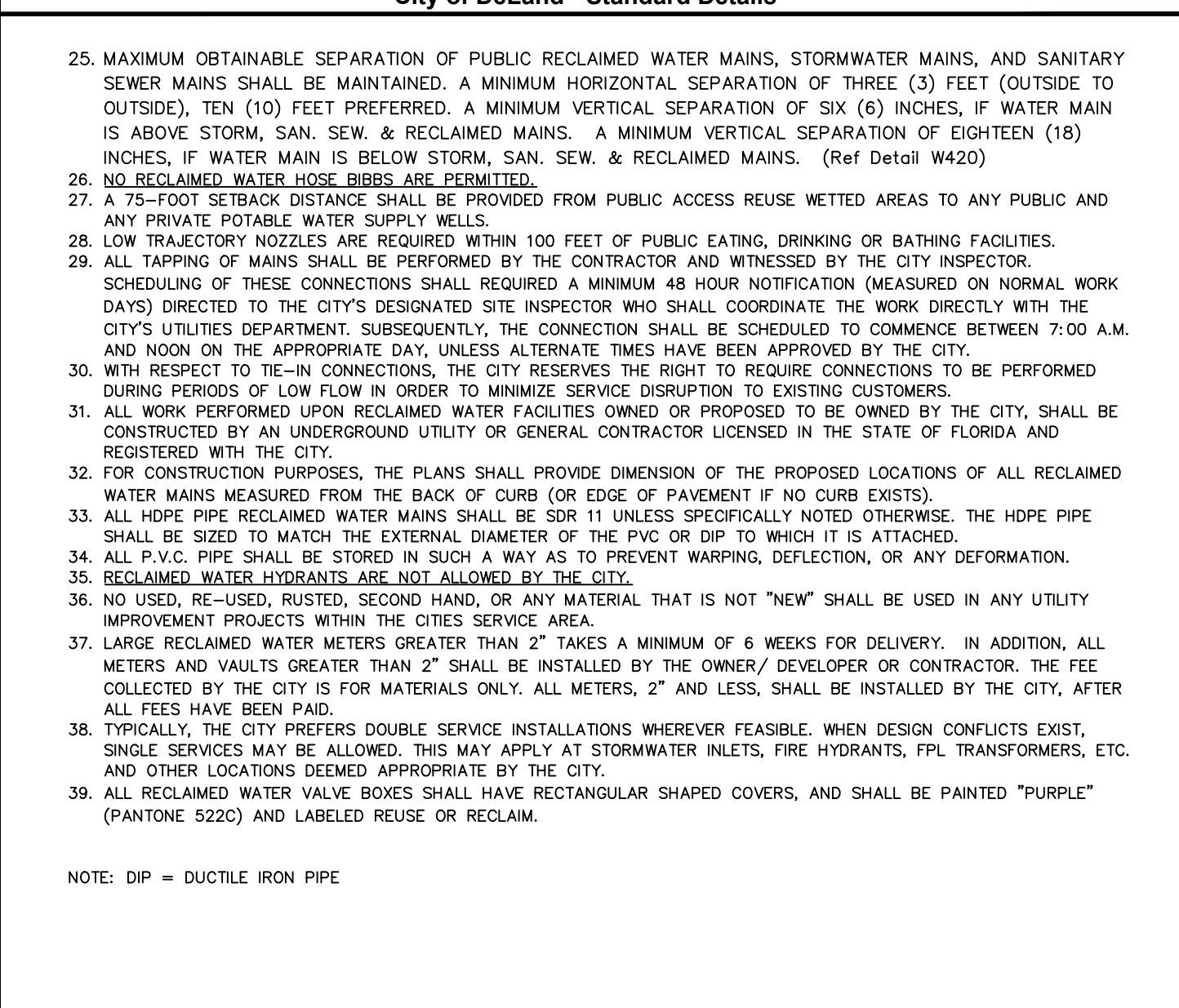
DATE: 11/05/2021  
**3" AND ABOVE RECLAIMED METER SET**  
**City of DeLand - Standard Details**



DATE: 11/05/2021  
**RECLAIMED WATER NOTES - 1 OF 3**  
**City of DeLand - Standard Details**



DATE: 11/05/2021  
**RECLAIMED WATER NOTES - 2 OF 3**  
**City of DeLand - Standard Details**



DATE: 11/05/2021  
**RECLAIMED WATER NOTES - 3 OF 3**  
**City of DeLand - Standard Details**











1. VACUUM PUMP AND FLOAT CHECK VALVE
2. CHECK VALVE
3. CW OR CCW IMPELLER
4. PARKER SOLENOID VALVE (25 PSI)
5. MECHANICAL SEAL
6. SONIC START VACUUM DOME HOUSING
7. SONIC START REPLACEMENT PRIME SENSOR

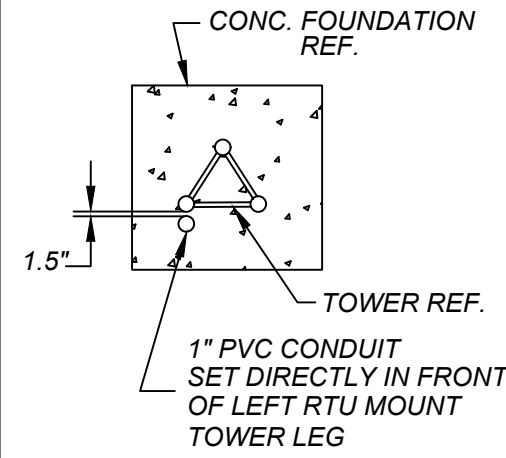
THE PUMP MOTORS SHALL BE VERTICAL, SLOPE SHAF, NEMA-B-35, SQUARE-CLAGE INDUCTION TYPE, SUITABLE FOR 3 PHASE, 60 CYCLE, 480VOLT ELECTRIC CURRENT. THEY SHALL HAVE CLASS F INSULATION AND BE PROTECTED BY THERMAL OVERLOAD RELAYS. THE MOTOR FRAME SIZE SHALL HAVE NORMAL STARTING TORQUE AND LOW-STARTING-CURRENT AS SPECIFIED BY NEMMA DESIGN B CHARACTERISTICS. THEY SHALL BE OPEN DRIER-PROOF DESIGN WITH FORCED AIR COOLING BY INTEGRATED FAN. THE MOTORS SHALL BE CAST IN CONNECTION BOX AND BE PLACED AROUND THE SHAFTS. LEADS SHALL BE TERMINATED IN CAST CONNECTION BOX AND SHALL BE CLEARLY IDENTIFIED.

THE MOTORS SHALL HAVE 1-1/2 SERVICE FACTOR. THE SERVICE FACTOR SHALL RESERVED THE FULL LOAD CAPACITY OF THE MOTORS SHALL NOT BE OVERLOADED BEYOND THEIR NAMEPLATE RATING, AT THE DESIGN CONDITIONS, NOR AT ANY HEAD IN THE OPERATING RANGE AS SPECIFIED UNDER OPERATING CONDITIONS.

THE SHAFTS SHALL BE CENTERED, IN RELATION TO THE MOTOR BASE, WITHIN ± 0.05".

THE SHAFT RUBOUT SHALL NOT EXCEED 0.003".

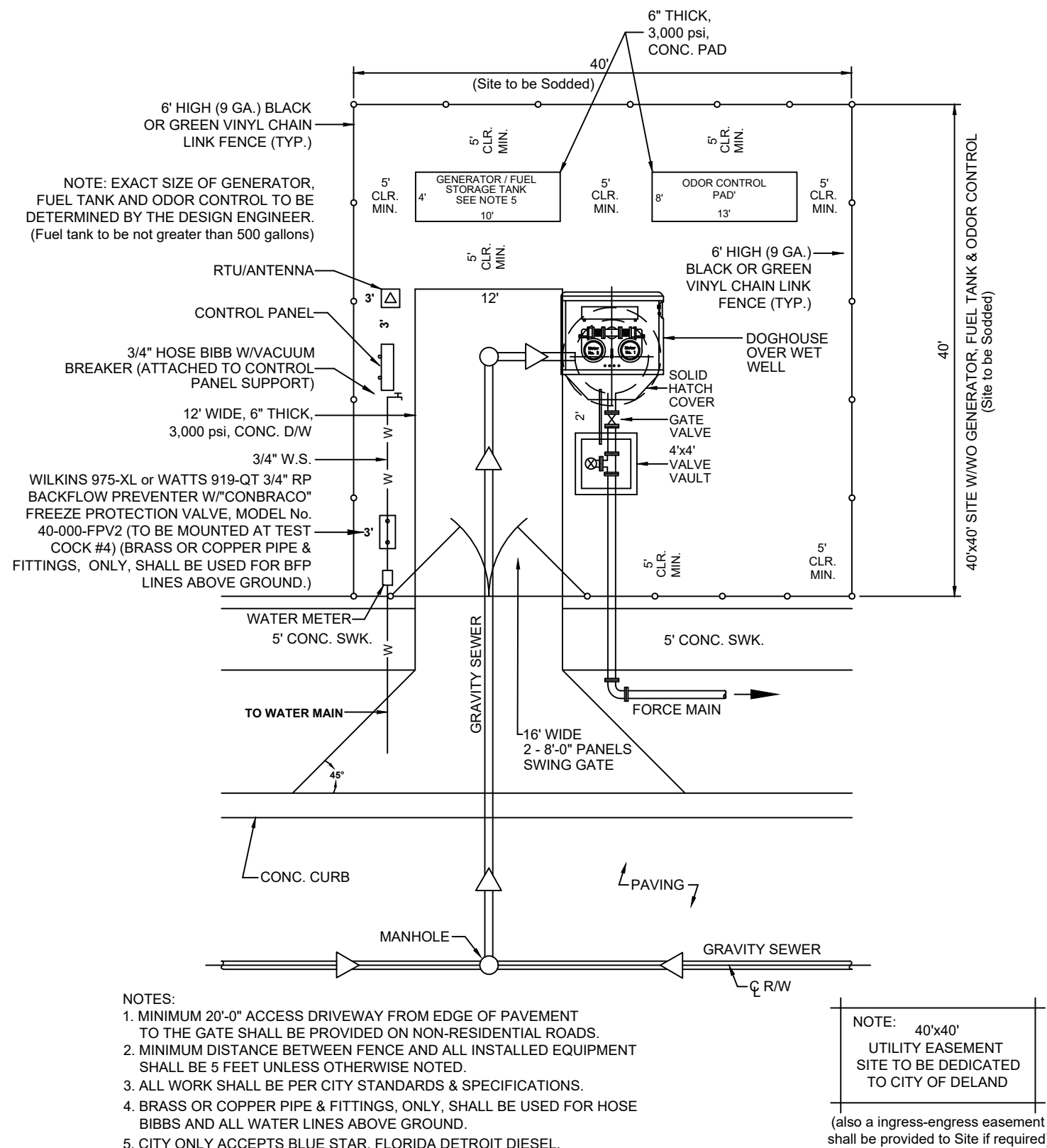
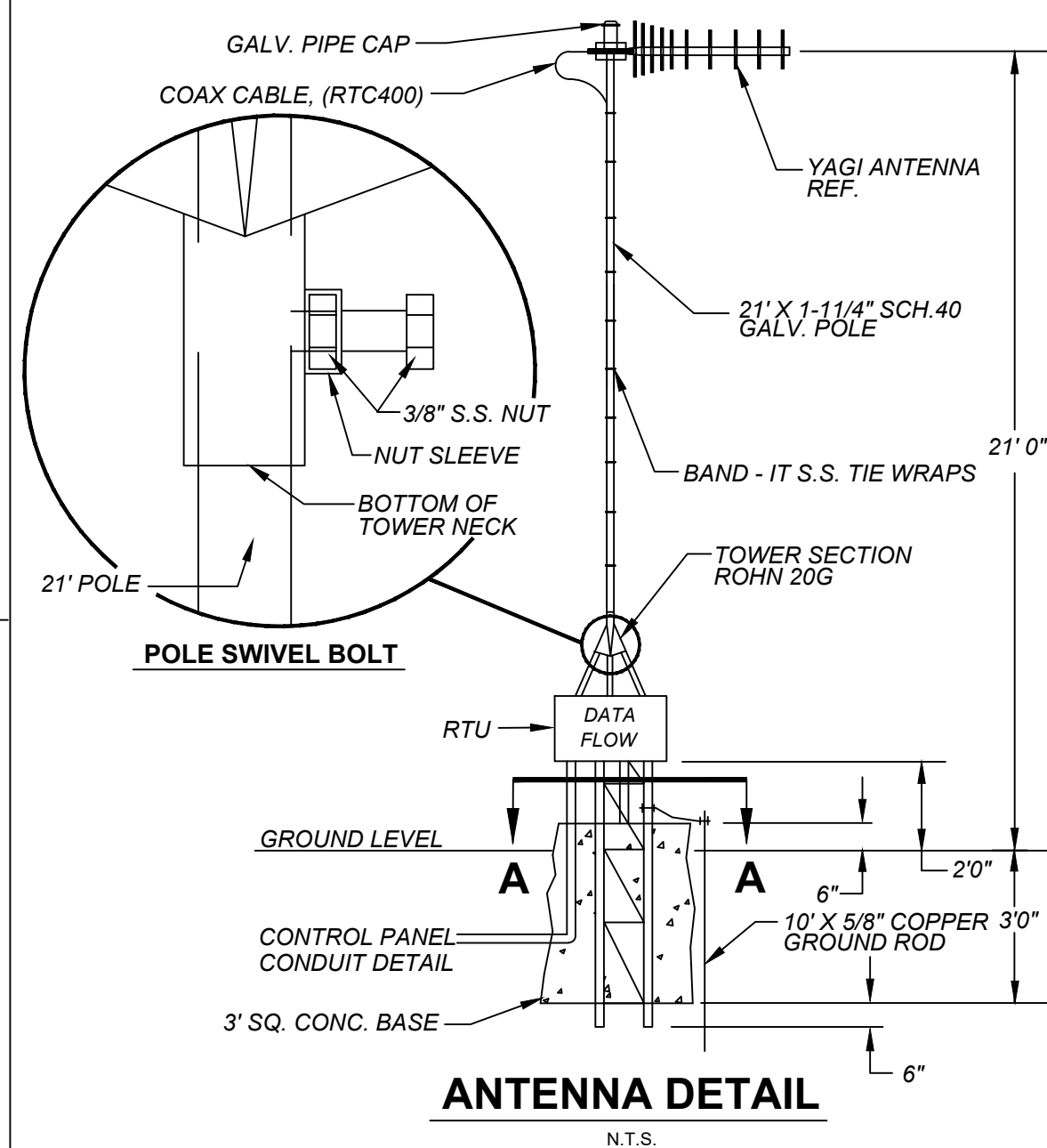
THE MOTORS SHAFT SHALL BE EQUAL OR EXCEED THE DIAMETER SPECIFIED UNDER MAIN PUMPS SECTION. THE SHAFTS SHALL BE PROVIDED WITH KEY TO FIT THE TOP OF THE IMPELLER HUB. A BEARING CAP SHALL BE PROVIDED TO HOLD THE BOTTOM MOTOR BEARING IN A FIXED POSITION. BEARING HOUSINGS SHALL BE PROVIDED WITH FITTING FOR LUBRICATION AS WELL AS PURGING POINTS FOR OIL ANALYSIS. THE MOTOR SHALL BE SUPPLIED WITH KEYS OR LUGS, EACH CAPABLE OF SUPPORTING THE ENTIRE WEIGHT OF THE PUMP AND MOTOR.



**CONDUIT DETAIL**

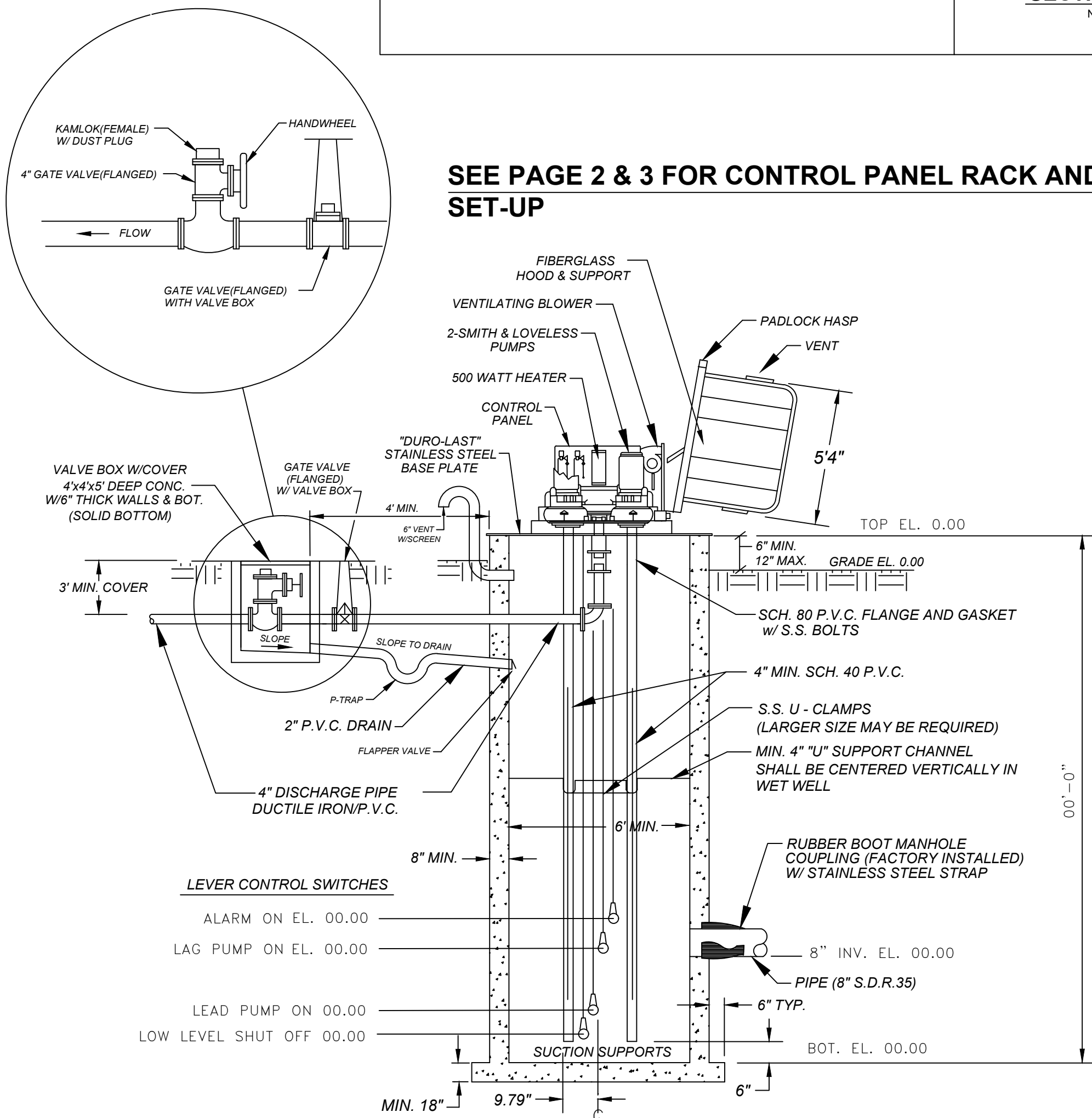
**SECTION "A-A"**

N.T.S.



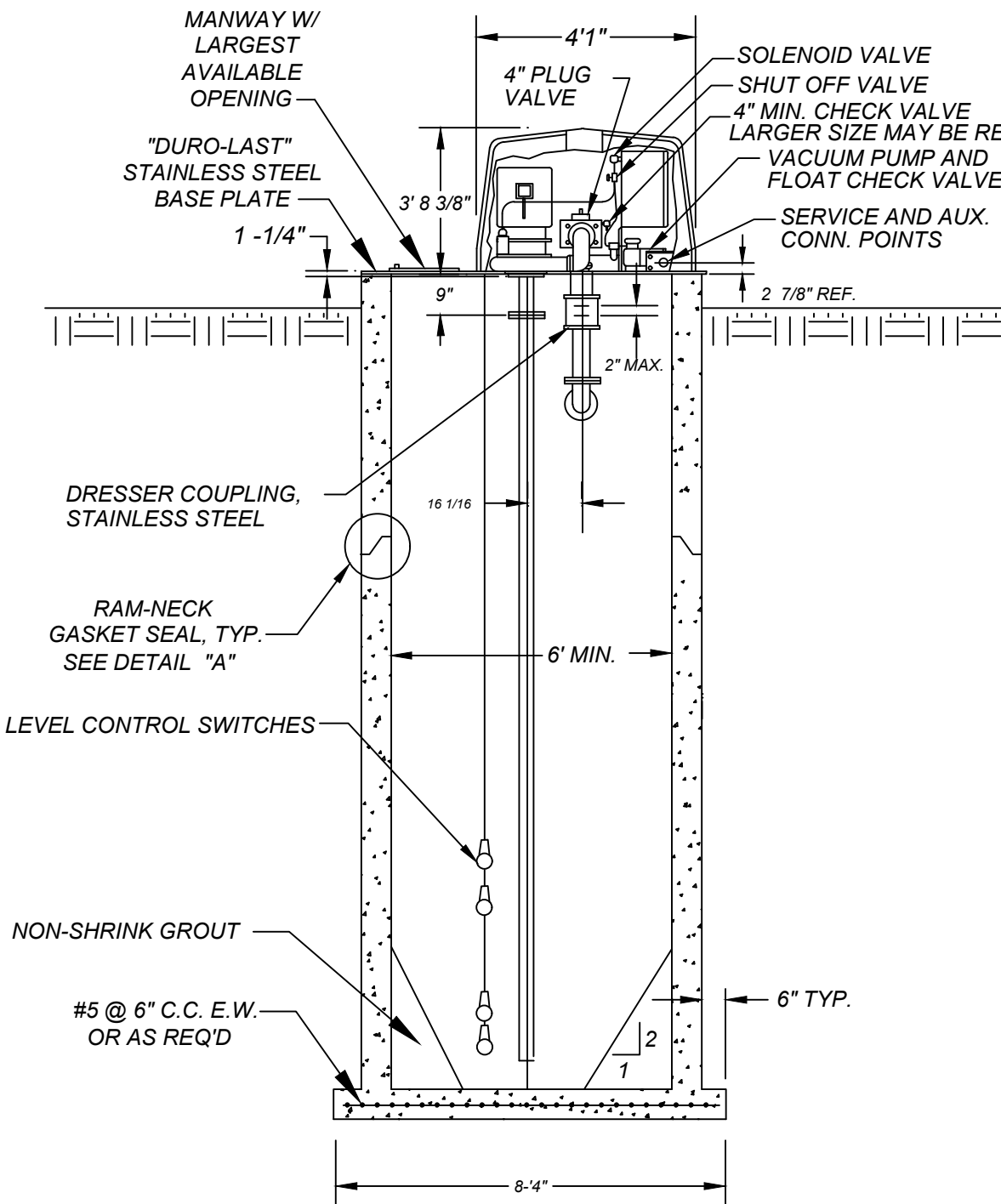
NOTES:

1. MINIMUM 20'-0" ACCESS DRIVEWAY FROM EDGE OF PAVEMENT TO THE GATE SHALL BE PROVIDED ON NON-RESIDENTIAL ROADS.
2. MINIMUM DISTANCE BETWEEN FENCE AND ALL INSTALLED EQUIPMENT SHALL BE 5 FEET UNLESS OTHERWISE NOTED.
3. ALL WORK SHALL BE PER CITY STANDARDS & SPECIFICATIONS.
4. BRASS OR COPPER PIPE & FITTINGS, ONLY, SHALL BE USED FOR HOSE BIBBS AND ALL WATER LINES ABOVE GROUND.
5. CITY ONLY ACCEPTS BLUE STAR, FLORIDA DETROIT DIESEL, OR CATERPILLAR GENERATORS.
6. POLYMER CONCRETE WET WALLS ARE ACCEPTED UPON REVIEW AND APPROVAL BY THE CITY OF DELAND ENGINEERING DEPT.



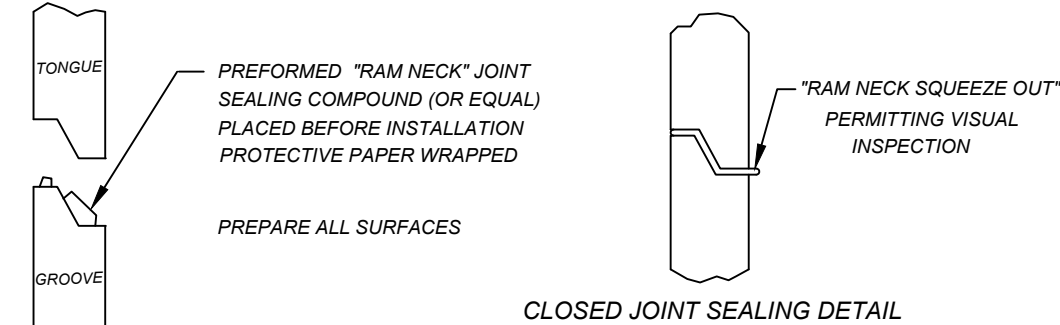
N.T.S

1. ALL MAJOR COMMERCIAL OR RESIDENTIAL PROJECTS MUST PROVIDE AN ON-SITE GENERATOR OR CONTRIBUTE TO THE GENERATOR FUND.
2. GENERATOR MAKE SHALL BE A BLUE STAR, FLORIDA DIESEL, OR CATERRPILLAR.
3. DUTY CYCLE, TWO TO THREE DAY RUN TIME (500 Gallon Diesel Storage)
4. AUTOMATIC TRANSFER SWITCH SHALL BE REQUIRED.
5. GENERATOR SHALL BE CONNECTED TO THE REMOTE TELEMETRY UNIT FOR MONITORING.
6. NEW SUBDIVISIONS OF 80 HOMES OR MORE WILL BE REQUIRED TO PROVIDE A UNIT W/ GENERATOR LESS THAN 80 HOMES WILL BE A PRO RATA SHARE (50% UNIT)
7. POLYMER CONCRETE W/ WELLS ARE ACCEPTED UPON REVIEW AND APPROVAL BY THE CITY OF DULUTH ENGINEERING DEPT.



N.T.S.

| WET<br>WELL<br>DIA. | DIM<br>"A" | DIM<br>"B"  | DIM<br>"C" | DIM<br>"D" | DIM<br>"E" | DIM<br>"F" | DIM<br>"G" | DIM<br>"H" | DIM<br>"J" | DIM<br>"K" | DIM<br>"L" |
|---------------------|------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 6'- 0"              | 2"         | 1'-1 13/16" | 3'-4"      | 6'-8"      | 2'-1 3/8"  | 2'-5 7/8"  | 1'-8"      | 3'-10"     | 3'-5 1/2"  | 10"        | 1'-8 7/8"  |

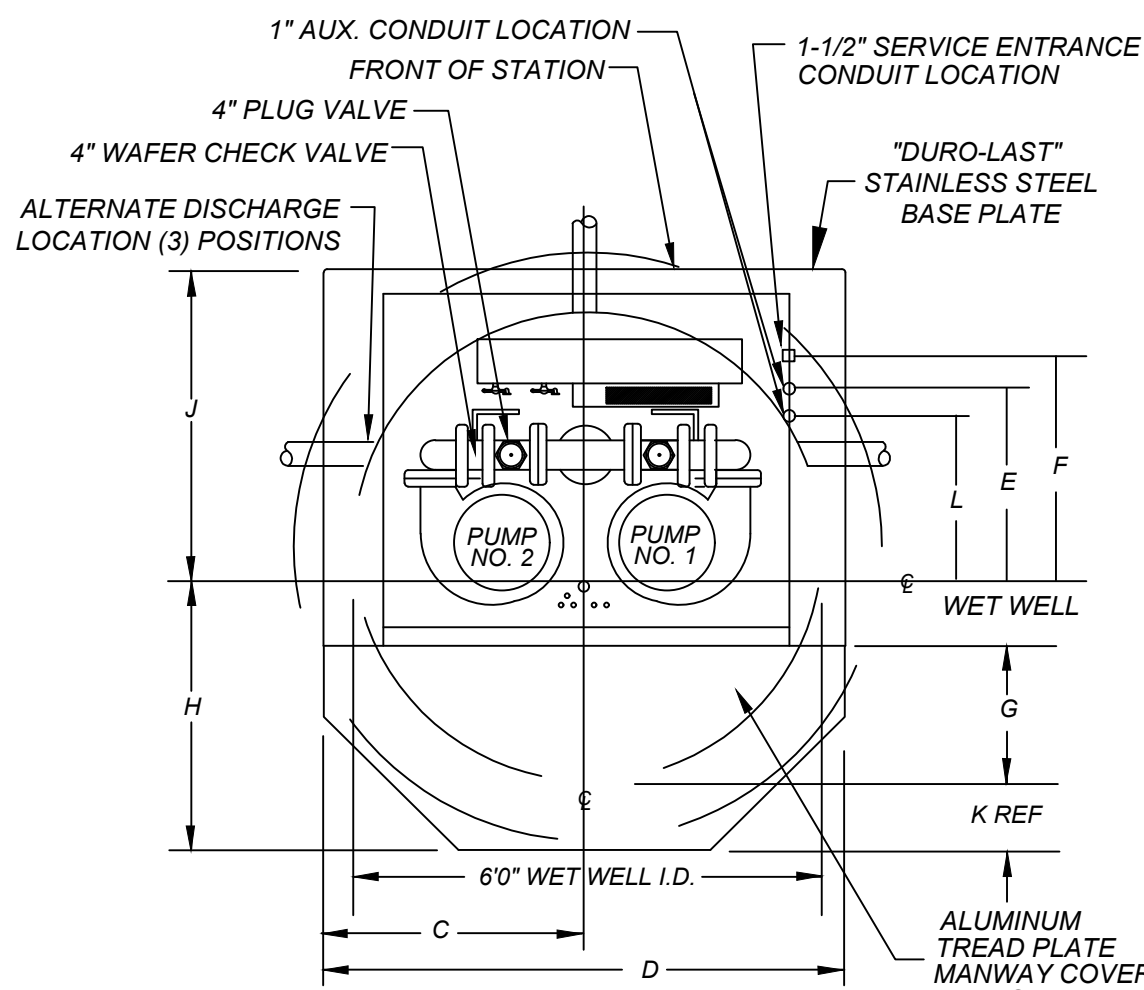


N.T.S.

**Note:**  
Air release valves shall be provided at all high points on force main.

**Wet Well (Anti-Floation)**  
Displacement = XX,XXX lbs. Up

**Valve Vault (Anti-Floation)**



N.T.S.

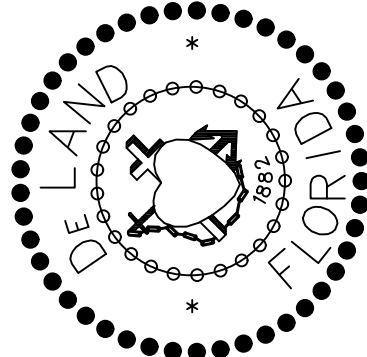
MACH. CHAMBER  
(SHOWN LESS HOOD)

1. IF END OF DISCHARGE LINE IS BELOW ELEVATION OF DISCHARGE LINE @ POINT OF LEAVING WET WELL A PRIMING LOCK LOOP MAY BE REQ'D. (CONSULT FACTORY)
2. IF DISCHARGE LINE IS LESS THAN 200" IN LENGTH AN ADDITIONAL CHECK VALVE OR PRIMING LOCK LOOP MAY BE REQ'D. (CONSULT FACTORY)
3. PROVIDE 60° SLOPE IN WET WELL, AS REQ'D.
4. VOLUME IN GALLONS BETWEEN L.L. ON AND L.L. OFF SHOULD BE EQUAL OR GREATER THAN THE PUMPING RATE IN G.P.M.
5. MAXIMUM CAPACITY - 400 G.P.M.

Index No.  
30800

REVISED 5/31/07  
REVISED 8/6/08  
REVISED 10/12/09  
REVISED 4/8/10  
REVISED 8/1/13  
REVISED 9/2/14  
REVISED 5/15/17  
REVISED 7/24/18  
REVISED 11/05/21

*SHEET 1 OF 3*



**City of DeLand, Engineering Services**  
1102 S. Garfield Avenue, DeLand, Florida 32724

DATE: 11/05/2021

CHECKED BY:

SCALE: NOT TO SCALE

DRAWN BY: **ERIC SAMPSON**

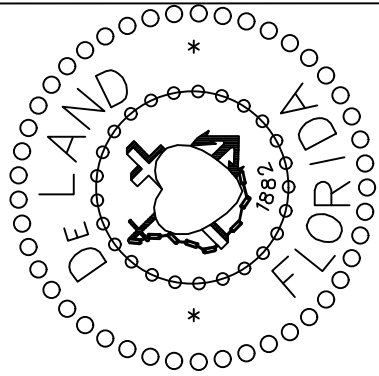
# SANITARY LIFT STATION

TITLE:

PAGE 3 OF 5

FILE: *LIFTSTATION.dwg*





City of DeLand, Engineering Services  
1102 S. Garfield Avenue, DeLand, Florida 32724

DATE: 11/05/2021

CHECKED BY:

SCALE: NOT TO SCALE  
DRAWN BY: ERIC SAMPSON

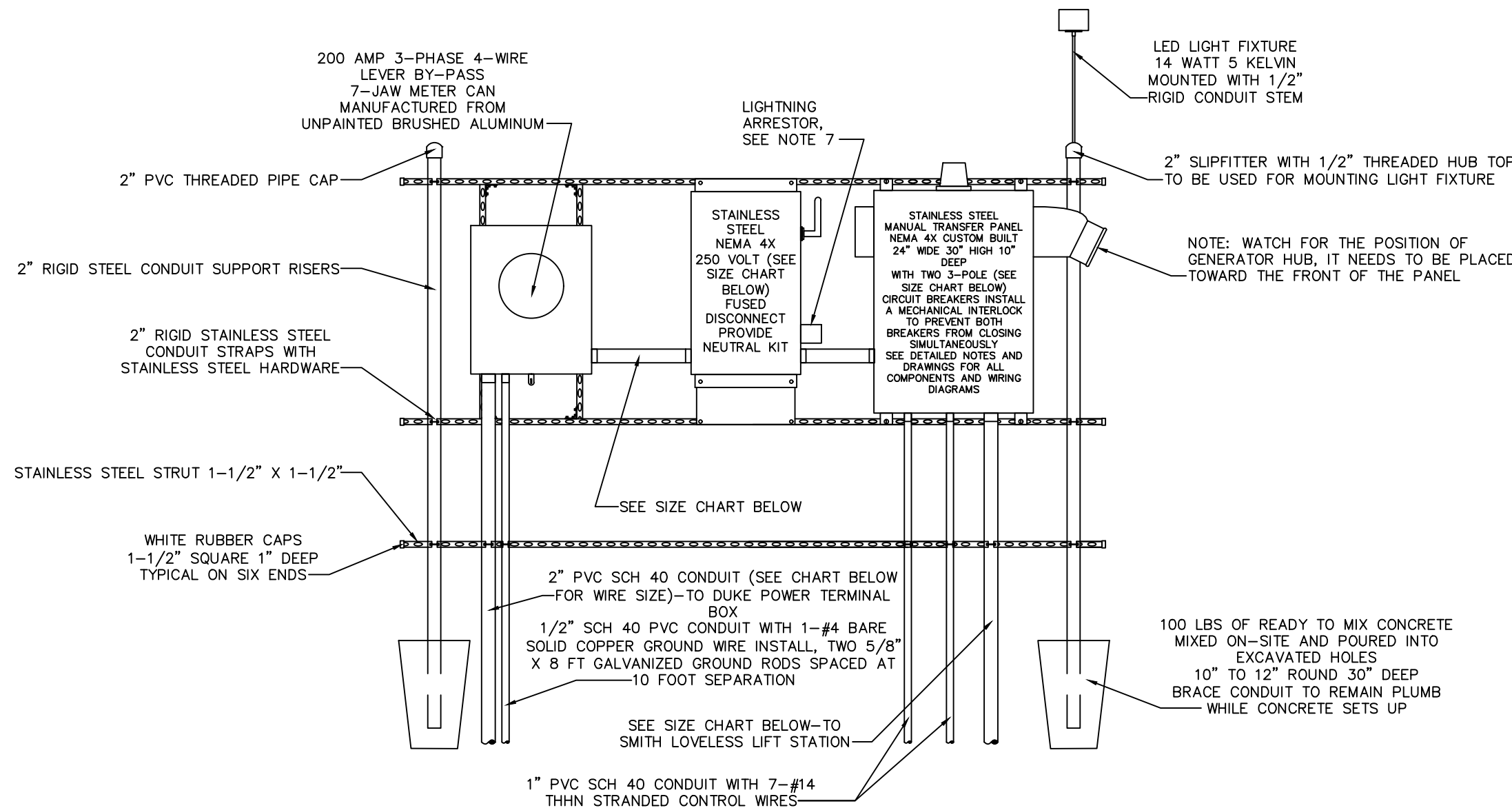
SANITARY LIFT STATION

FILE: LIFT\_STATION\_DETAILS\_A\_B.dwg

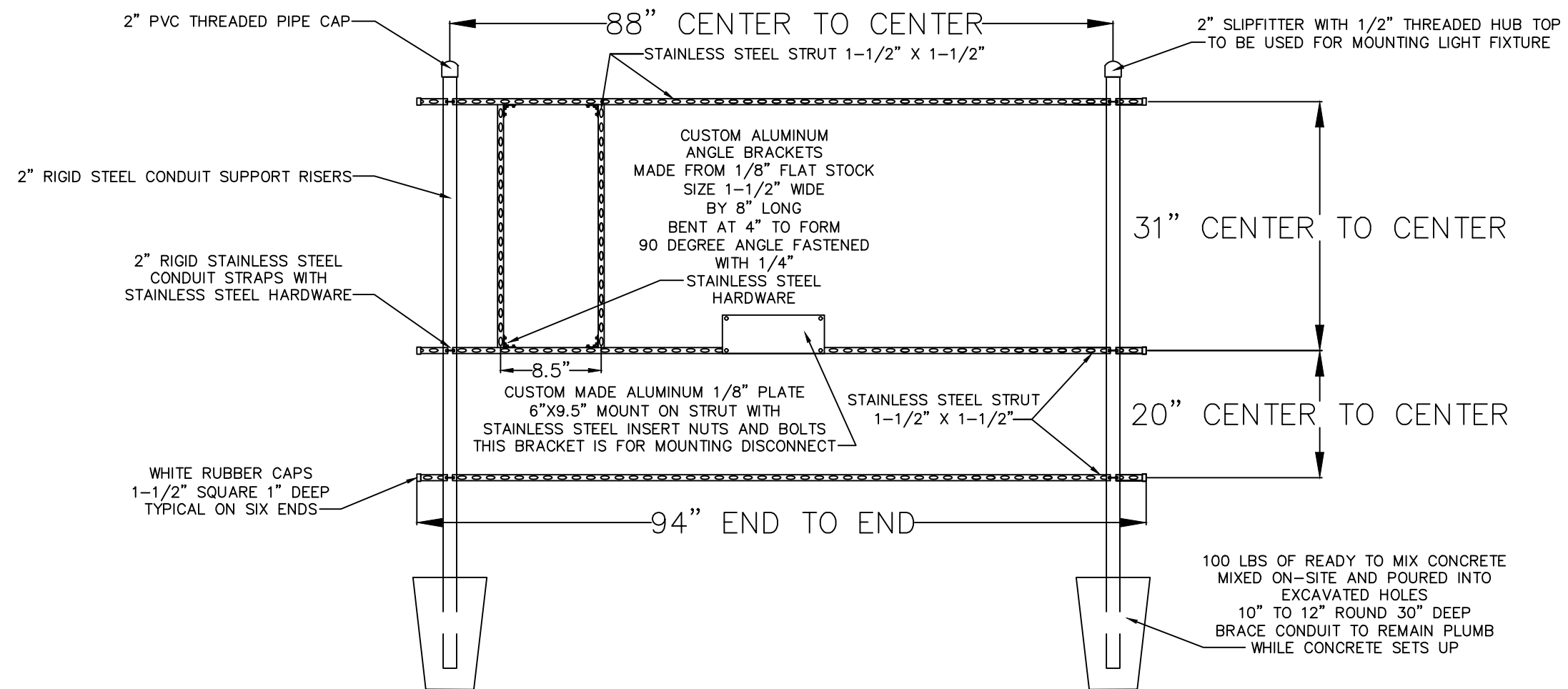
TITLE:

PAGE 4 OF 5

DETAIL "A"



240 VOLT POWER RACK WITHOUT GENERATOR

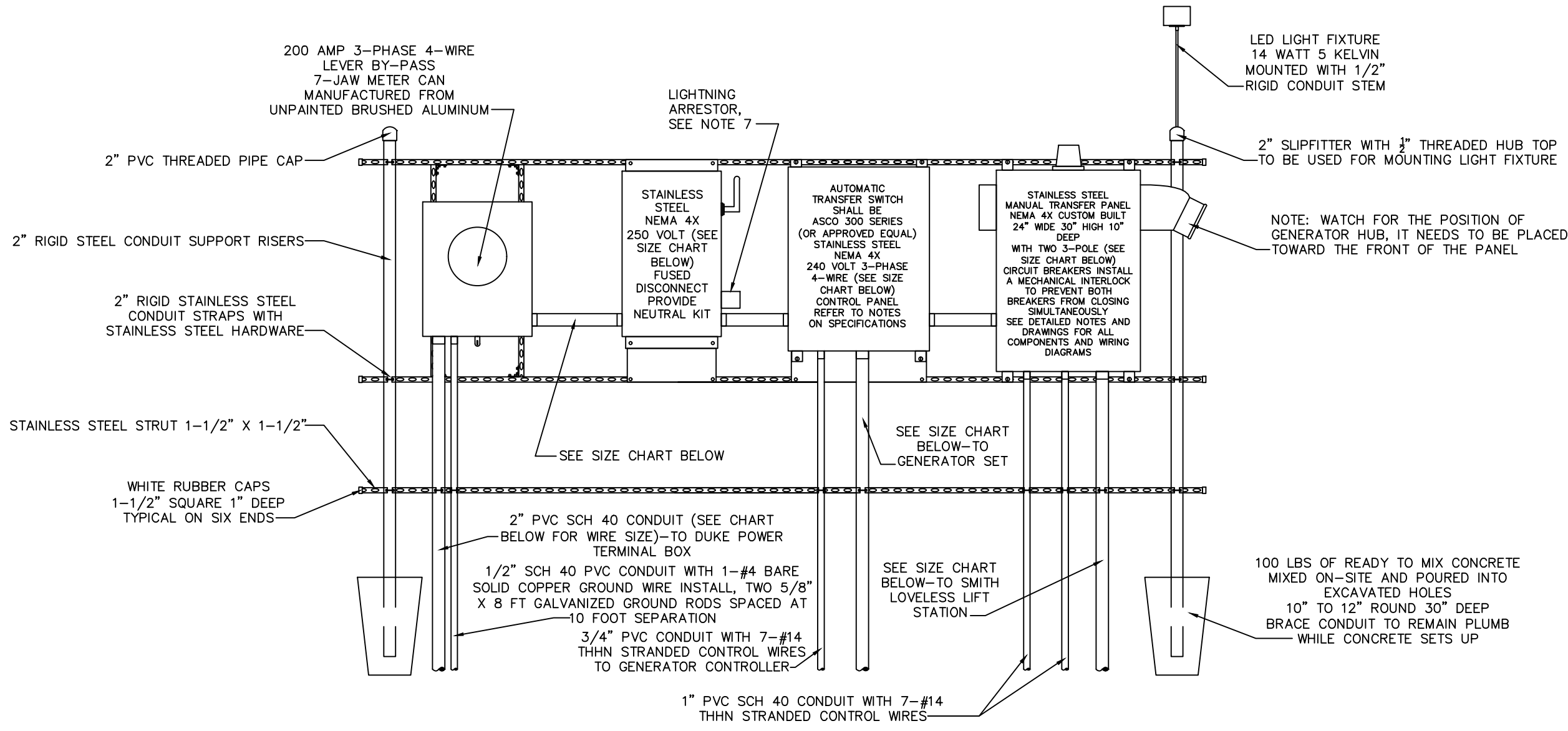


RACK FRAMING DETAILS  
240 VOLT WITHOUT AUTOMATIC TRANSFER SWITCH

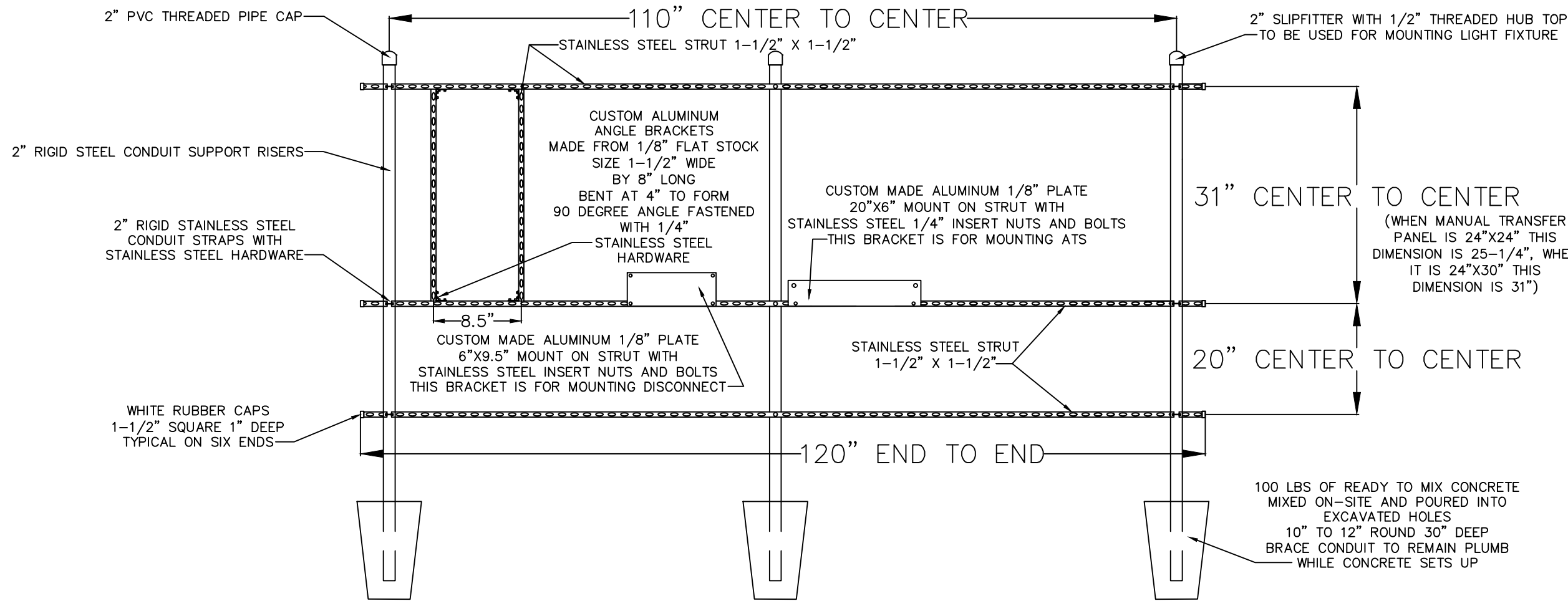
CONTROL GENERATOR RECEPTACLE PANEL

- ENCLOSURE : NEMA 4X STAINLESS, 304 GRADE, 14 GAUGE, GASKETED, #4 BRUSHED FINISH, U.L. AND CSA APPROVED, HASP AND STAPLE FOR PADLOCKING, INSIDE PRINT POCKET, STAINLESS STEEL HINGE, MIN. SIZE 24" x 24" x 8" FOR UP TO 15 H.P.
- MAIN BREAKER : SQUARE D HEAVY DUTY SIZED PROPERLY FOR FULL LOAD OF STATION PLUS 25%.
- EMERGENCY BKR. : SQUARE D HEAVY DUTY SIZED PROPERLY FOR FULL LOAD OF STATION PLUS 25%.
- MECH. INTERLOCK: ALL ALUMINUM AND STAINLESS STEEL WI POSITIVE MEANS OF LOCKING OFF BREAKER NOT IN USE. THE BREAKERS WILL PROTRUDE THROUGH INNER DOOR.
- RECEPTACLE: RUSSELL STOLL JRS1044FR (230 VOLT ONLY), MELTRIC PART #37-98047 (480 VOLT ONLY)
- ANGLE ADAPTER: RUSSELL STOLL JAAB-10, 20 DEG. ADAPTER
- LIGHTNING ARRESTOR: HEAVY DUTY, SQUARE D PIN SDSA3650
- PHASE MONITOR: DIVERSIFIED PIN SLA-230-ASA, 8 PIN WITH N.O. AND N.C. CONTACTS WIRE TO TERMINAL FOR RTU EQUIPMENT.
- HIGH WATER ALARM: RED, LEXAN, W/NO EXTERNAL SCREWS.
- HWA RELAY: SQUARE D OR OMRON, 8 PIN DOUBLE POLE, DOUBLE THROW WIRED TO RTU TERMINAL.
- ALARM HORN: RED, WHEELLOCK PIN 31T-115 MOUNTED TO RED WEATHER PROOF CAST BOX ON EXTERIOR OF ENCLOSURE.
- ALARM RELAY: SQUARE D OR OMRON, 8 PIN DOUBLE POLE, DOUBLE THROW WIRED TO RTU TERMINAL.
- ALARM RESET/SIL: SQUARE D, WEATHER PROOF MOUNTED ON EXTERIOR OF ENCLOSURE.
- ENCL. BACKPLATE: ALUMINUM, 12 GAUGE
- TERMINAL STRIP: BUCHANON PIN 0625
- GROUND LUG: BUCHANON PIN 824
- NEUTRAL LUG: BUCHANON PIN 824
- MAIN LOAD LUG: SQUARE D PIN U3
- LABELS: ALL BREAKERS AND SWITCHES TO BE IDENTIFIED BY PERMANENTLY ATTACHED LABEL TO PANEL DOOR INTERIOR
- MOUNTING SCREWS: STAINLESS STEEL 304
- SCH. MATIC DWG.: PROTECTED BY PLASTIC COATING AND ATTACHED TO PANEL DOOR INTERIOR.
- MANUFACTURER: STACON, EOS OR CITY OF DELAND APPROVAL
- R.T.U.: (DATA FLOW MELBOURNE FLA. (R.T.U. 204) OR EQUAL TO BE INSTALLED BY CITY- DEVELOPER TO BEAR ALL COSTS.
- PROVIDE SPARE PARTS - SEE SPARE PARTS LIST
- WET WELL TO BE COATED INSIDE AND OUT WITH MIN. 24 MILS OF COAL/TAR EPOXY
- EQUIVALENT PRODUCTS CAN ONLY BE APPROVED UPON RECEIPT OF WRITTEN AUTHORIZATION FROM THE CITY OF DELAND.

DETAIL "B"



240 VOLT POWER RACK WITH GENERATOR  
AUTOMATIC TRANSFER SWITCH



RACK FRAMING DETAILS  
240 VOLT WITH AUTOMATIC TRANSFER SWITCH

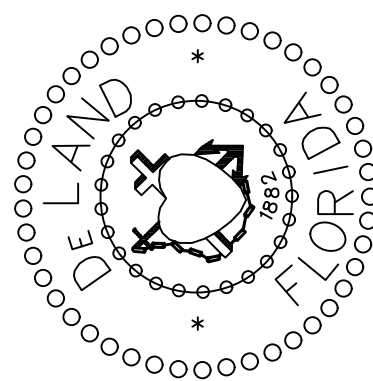
SIZE CHART

- STEP #1: DETERMINE LIFT STATION SIZE & SPECIFICATIONS FROM THE UTILITY CONTRACTOR OR CITY OF DELAND ENGINEERING DEPT.
- STEP #2: MAKE NOTE OF THE FOLLOWING: THE VOLTAGE FOR THE STATION, THE NUMBER OF PUMPS (2 OR 3) & THE HORSEPOWER OF PUMPS.
- STEP #3: REFER TO THE ELECTRICAL SERVICE DATA CHARTS FOR THE STANDARD 2 PUMP OR 3 PUMP STATION (FOUND ON SHEET 3 OF 3).
- STEP #4: USE THE VOLTAGE COLUMN AND THE HORSEPOWER ROW TO FIND THE TOTAL STATION FULL LOAD AMPS.
- STEP #5: UPON DETERMINING THE FULL LOAD AMPS OF THE STATION, THE SERVICE ENTRANCE SIZE SHALL NOT BE SMALLER THAN 100 AMPS.
- STATIONS THAT REQUIRE A SERVICE SIZE LARGER THAN 100 AMPS SHALL BE SIZED CLOSEST TO THE STANDARD SIZES LISTED BELOW.

| SERVICE SIZE | CONDUIT SIZE | WIRE SIZE   | BREAKER OR FUSE RATING |
|--------------|--------------|-------------|------------------------|
| 100 AMP      | 1-1/2"       | #3 THHN CU  | 100 AMP                |
| 125 AMP      | 1-1/2"       | #2 THHN CU  | 125 AMP                |
| 150 AMP      | 2"           | #1 THHN CU  | 150 AMP                |
| 200 AMP      | 2"           | 3/0 THHN CU | 200 AMP                |
| 225 AMP      | 2-1/2"       | 4/0 THHN CU | 225 AMP                |

Index No.  
30800  
REVISED 11/05/21  
SHEET 2 OF 3





City of DeLand, Engineering Services  
1102 S. Garfield Avenue, DeLand, Florida 32724

DATE: 11/05/2021  
CHECKED BY:

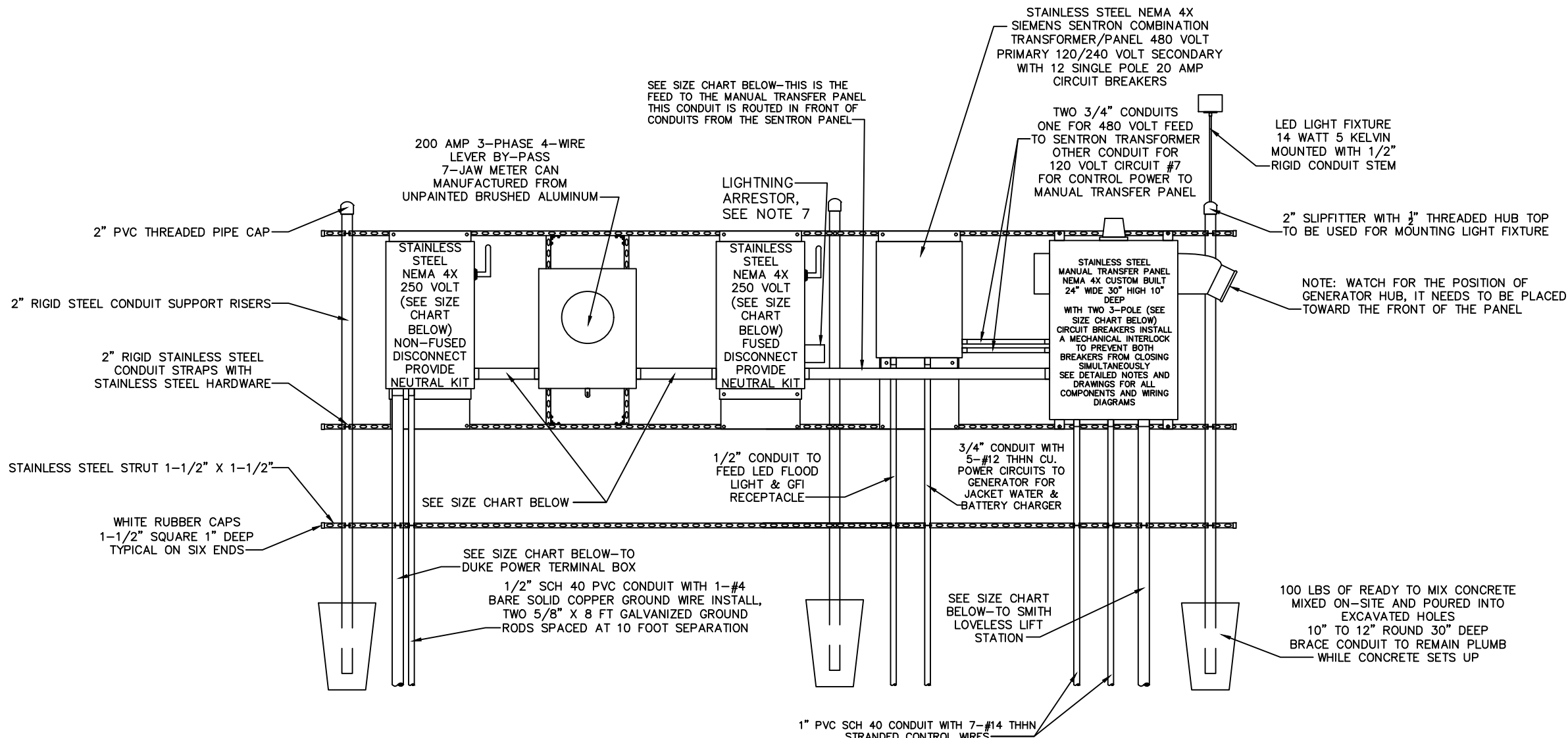
SCALE: NOT TO SCALE  
DRAWN BY: ERIC SAMPSON

SANITARY LIFT STATION

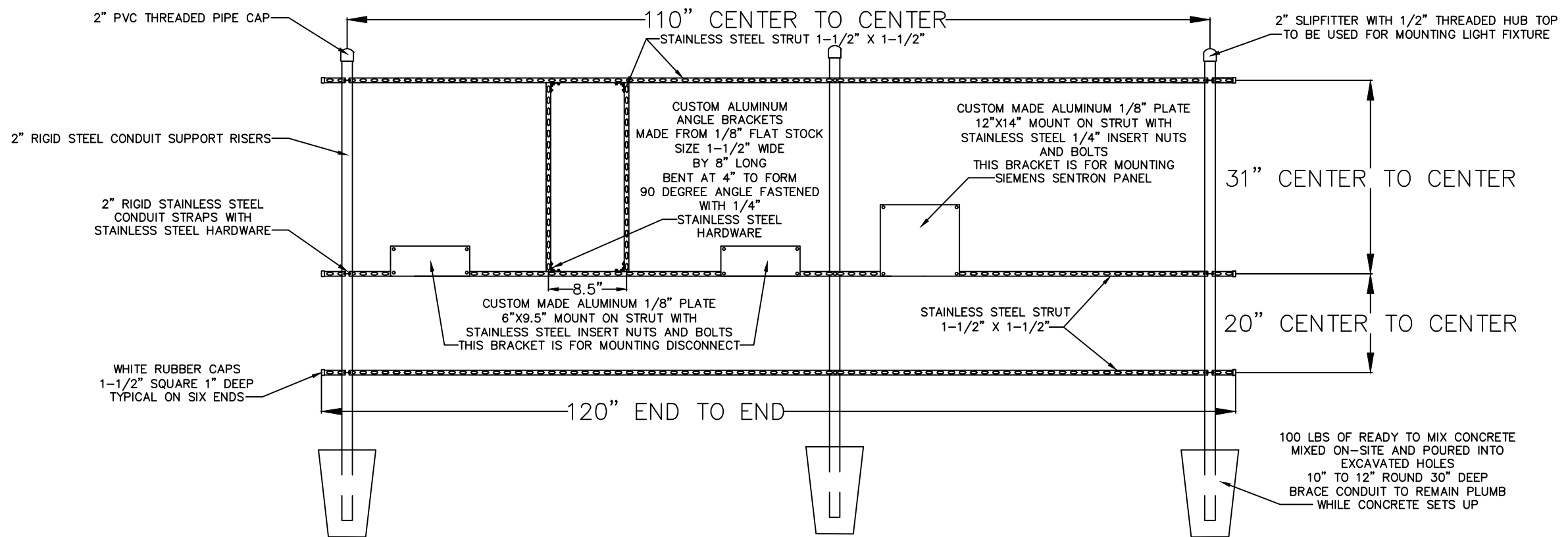
TITLE: PAGE 5 OF 5

FILE: LIFT\_STATION\_DETAILS\_C\_D.dwg

DETAIL "C"

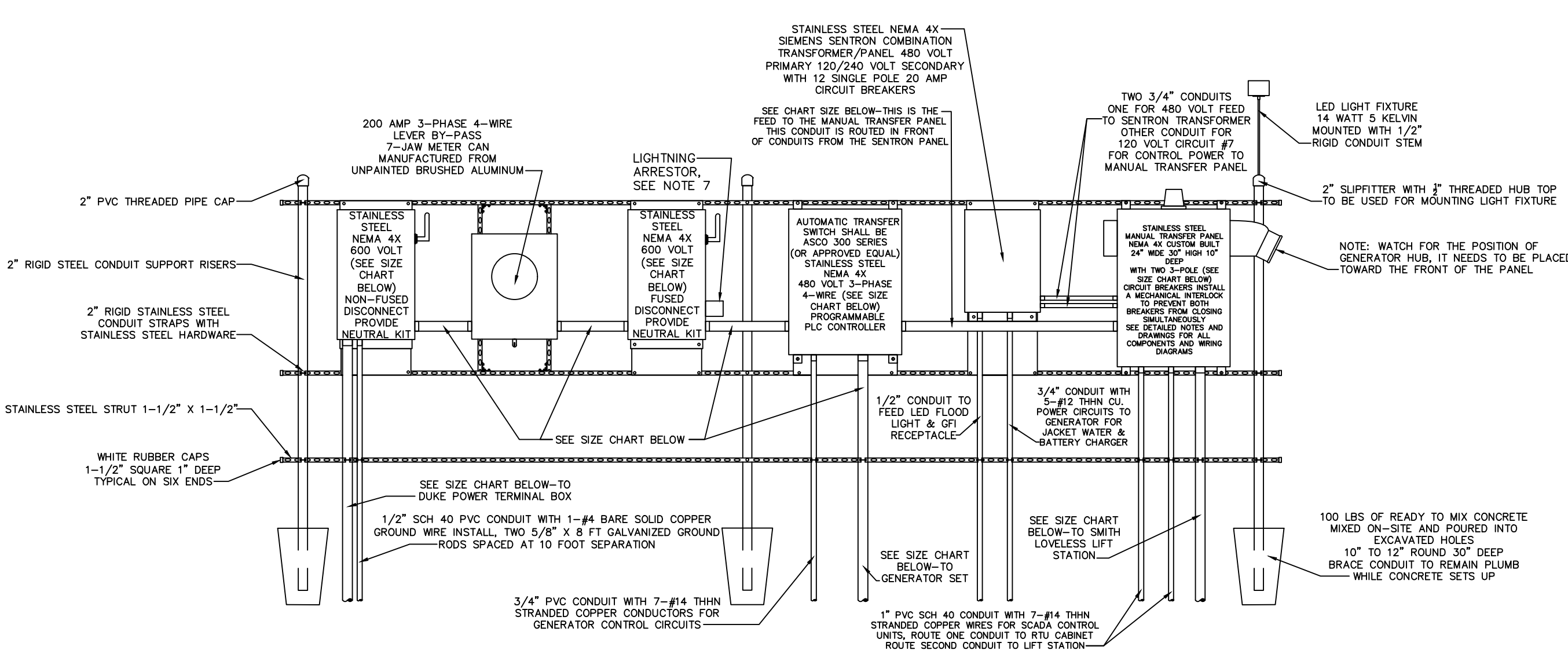


480 VOLT POWER RACK WITHOUT GENERATOR  
AUTOMATIC TRANSFER SWITCH

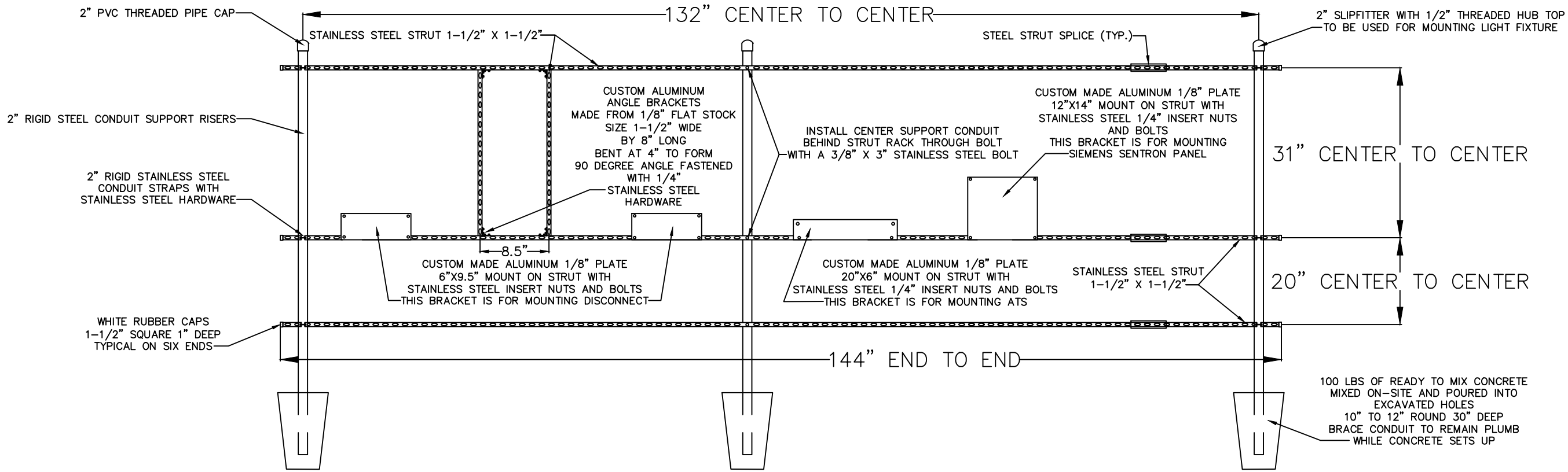


RACK FRAMING DETAILS  
480 VOLT WITHOUT AUTOMATIC TRANSFER SWITCH

DETAIL "D"



480 VOLT POWER RACK WITH GENERATOR  
WITH AUTOMATIC TRANSFER SWITCH



RACK FRAMING DETAILS  
480 VOLT WITH AUTOMATIC TRANSFER SWITCH

ELECTRICAL SERVICE DATA  
STANDARD 2-PUMP WET WELL MOUNTED PUMP STATION

| MAIN PUMP<br>MOTOR SIZE | TOTAL STATION FULL LOAD AMPS |          |          |          |
|-------------------------|------------------------------|----------|----------|----------|
|                         | RATED HP EACH                | 208 VOLT | 230 VOLT | 460 VOLT |
| 1                       |                              | 17.6     | 15.3     | 7.6      |
| 1-1/2                   |                              | 21.8     | 18.9     | 9.5      |
| 2                       |                              | 25.9     | 22.5     | 11.3     |
| 3                       |                              | 33.1     | 28.8     | 14.5     |
| 5                       |                              | 47.7     | 41.4     | 20.7     |
| 7-1/2                   |                              | 65.3     | 56.7     | 28.4     |
| 10                      |                              | 80.8     | 70.2     | 35.1     |
| 15                      |                              | 117.0    | 101.7    | 50.9     |
| 20                      |                              | 148.1    | 128.7    | 64.4     |
| 25                      |                              | 190.44   | 160.2    | 80.1     |
| 30                      |                              | 215.3    | 187.2    | 93.6     |
| 40                      |                              | ---      | ---      | 120.6    |
| 50                      |                              | ---      | ---      | 150.0    |

ELECTRICAL SERVICE DATA  
STANDARD 3-PUMP WET WELL MOUNTED PUMP STATION

| MAIN PUMP<br>MOTOR SIZE | TOTAL STATION FULL LOAD AMPS |          |          |          |
|-------------------------|------------------------------|----------|----------|----------|
|                         | RATED HP EACH                | 208 VOLT | 230 VOLT | 460 VOLT |
| 1                       |                              | 27.3     | 23.7     | 11.9     |
| 1-1/2                   |                              | 33.3     | 28.9     | 14.5     |
| 2                       |                              | 39.3     | 34.1     | 17.1     |
| 3                       |                              | 49.6     | 43.2     | 21.6     |
| 5                       |                              | 70.6     | 61.4     | 30.7     |
| 7-1/2                   |                              | 96.1     | 83.5     | 41.8     |
| 10                      |                              | 118.5    | 103.0    | 51.5     |
| 15                      |                              | 170.9    | 148.5    | 74.3     |
| 20                      |                              | 215.7    | 187.5    | 93.8     |
| 25                      |                              | ---      | ---      | 116.5    |
| 30                      |                              | ---      | ---      | 136.0    |
| 40                      |                              | ---      | ---      | 175.0    |
| 50                      |                              | ---      | ---      | 217.3    |

Index No.  
**30800**  
REVISED 11/05/21  
SHEET 3 OF 3

CONTROL GENERATOR RECEPTACLE PANEL

- ENCLOSURE: NEMA 4X STAINLESS, 304 GRADE, 14 GAUGE, GASKETED, #4 BRUSHED FINISH, U.L. AND CSA APPROVED, HASP AND STAPLE FOR PADLOCKING, INSIDE PRINT POCKET, STAINLESS STEEL HINGE, MIN. SIZE 24"X24"X8" FOR UP TO 15 H.P.
- MAIN BREAKER: SQUARE D HEAVY DUTY SIZED PROPERLY FOR FULL LOAD OF STATION PLUS 25%.
- EMERGENCY BKR.: SQUARE D HEAVY DUTY SIZED PROPERLY FOR FULL LOAD OF STATION PLUS 25%.
- MECH. INTERLOCK: ALL ALUMINUM AND STAINLESS STEEL W/POSITIVE MEANS OF LOCKING OFF BREAKER NOT IN USE. THE BREAKERS WILL PROVIDE THROUGH INNER DOOR.
- RECEPTACLE: RUSSELL STOLL JRS104FR (230 VOLT ONLY), MELTRIC PART #37-98047 (480 VOLT ONLY)
- ANGLE ADAPTER: RUSSELL STOLL JAAB-10, 20 DEG. ADAPTER
- LIGHTNING ARRESTOR: HEAVY DUTY, SQUARE D P/N SDASA3850, OR INTERMATIC AG503C 600V.
- PHASE MONITOR: DIVERSIFIED P/N SLA-230-ASA, 8 PIN WITH N.O. AND N.C. CONTACTS WIRE TO TERMINAL FOR RTU EQUIPMENT.
- HIGH WATER ALARM: RED, LEXAN, W/NO EXTERNAL SCREWS.
- HWA RELAY: SQUARE D OR OMRON, 8 PIN DOUBLE POLE, DOUBLE THROW WIRED TO RTU TERMINAL.
- ALARM HORN: RED, WHEELLOCK P/N 31T-115 MOUNTED TO RED WEATHER PROOF CAST BOX ON EXTERIOR OF ENCLOSURE.
- ALARM RELAY: SQUARE D OR OMRON, 8 PIN DOUBLE POLE, DOUBLE THROW WIRED TO RTU TERMINAL.
- ALARM RESET/SIL: SQUARE D, WEATHER PROOF MOUNTED ON EXTERIOR OF ENCLOSURE.
- ENCL. BACKPLATE: ALUMINUM, 12 GAUGE
- TERMINAL STRIP: BUCHANON P/N 0625
- GROUND LUG: BUCHANON P/N 824
- NEUTRAL LUG: BUCHANON P/N 824
- MAIN LOAD LUG: SQUARE D P/N L13
- LABELS: ALL BREAKERS AND SWITCHES TO BE IDENTIFIED BY PERMANENTLY ATTACHED LABEL TO PANEL DOOR INTERIOR
- MOUNTING SCREWS: STAINLESS STEEL 304
- SCHEMATIC DWG.: PROTECTED BY PLASTIC COATING AND ATTACHED TO PANEL DOOR INTERIOR.
- MANUFACTURER: STACON, ECS OR CITY OF DELAND APPROVAL
- R.T.U.: (DATA FLOW MELBOURNE FLA. (R.T.U. 204) OR EQUAL TO BE INSTALLED BY CITY-DEVELOPER TO BEAR ALL COSTS.
- PROVIDE SPARE PARTS - SEE SPARE PARTS LIST
- WET WELL TO BE COATED INSIDE AND OUT WITH MIN. 24 MILS OF COAL/TAR EPOXY
- EQUIVALENT PRODUCTS CAN ONLY BE APPROVED UPON RECEIPT OF WRITTEN AUTHORIZATION FROM THE CITY OF DELAND.



3M LOCATING MARKER BALLS PROGRAMMABLE AND NON-PROGRAMMABLE NOTES:

- Programmable and Non-Programmable Marking Balls will be used on all Sewer, Potable and Reclaim projects
- For information on the Programmable and Non-Programmable Balls that the City requires see spec sheet for details
- Programmable Balls will be placed at all fittings ie. Tees, Couplings, 90, 45, and 22.
- Information will be recorded on a spread sheet. For information that needs to be recorded see spec sheet for an example template for the 3M Marker Balls
- Non-Programmable Marking Balls will used as follow:

- Potable: End of Service Line when buried
- Wastewater: Ball will be placed at the curb line to mark lateral location prior to end of service.
- Reclaim: End of Service Line when buried

- Desired bury depth is 1.5 feet to 3 feet. Five foot is the maximum depth for these devices

1420-LOCATER FOR MARKER BALLS

3M™ Dynatel™ Electronic Marker System (EMS) Marker Locators 1420 series is microprocessor-based systems that quickly and efficiently locate underground markers—years after construction or maintenance. -

The 3M™ Dynatel™ 1420 Marker Locators are designed to be accurate, fast and integrated allowing you to accurately and easily:

- Locate, read and write to 3M iD markers
- Pinpoint the depth and location of all existing models of properly installed underground passive EMS markers
- Conduct direct depth reading of markers
- Locate two different marker frequencies simultaneously

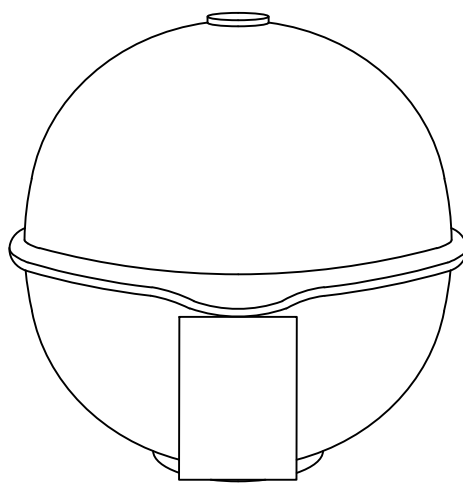
Specifications

2200RB Rechargeable Battery Not Included  
Cable/Pipe Locate No  
Carrying Bag Included No  
Coupler Size No Coupler  
Direct Connect Cable N/A  
EMS Caution Tape Finding Capability No  
Family 1420 Series  
Fault Finding Capability No

2200RB Rechargeable Battery Not Included  
Cable/Pipe Locate No  
Carrying Bag Included No  
Coupler Size No Coupler  
Direct Connect Cable N/A  
EMS Caution Tape Finding Capability No  
Family 1420 Series  
Fault Finding Capability No  
Locator Type Marker

3M DYNATEL LOCATING AND MARKING ELECTRONIC MARKER SYSTEM:

1423-XR/ID-POTABLE



The 3M™ EMS Extended-Range Ball Markers have a self-leveling design providing accurate, horizontal position regardless of how it is placed in the ground, making the job of precisely locating underground facilities easier.

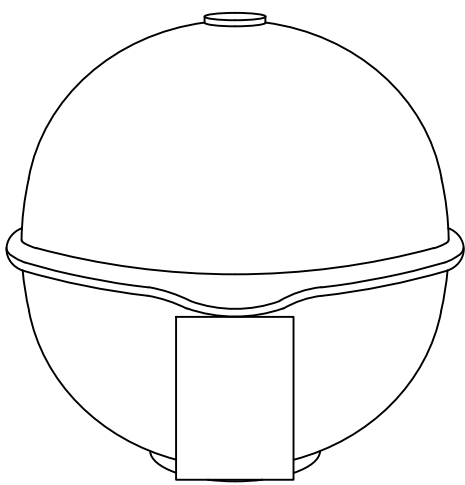
Featured Benefits

- Positive identification of underground water facilities
- iD Marker allows for programming of customer specific information
- Unique self leveling design simplifies installation
- No external power source needed
- Resistant to elements
- 5 foot (1.5 meter) detection distance
- Color conforms to APWA standards

SPECIFICATIONS:

COLOR: BLUE  
DIAMETER (METRIC): 10.4 CM  
EMS CAUTION TAPE FINDING CAPABILITY: N/A  
MARKER DEPTH: 5 FEET (1.5M)  
MARKER DIMENSION (INCH): 4 INCH DIAMETER  
MARKER TYPE: BALL  
PROGRAMMABLE/PASSIVE: PROGRAMMABLE  
RANGE: 0 TO 5 LINEAR FOOT  
RoHS 2011/65/EU Compliant: UNDETERMINED  
RoHS EU Comments: CONTACT 3M FOR INFORMATION  
Solution for: ACCESS NETWORK: FTTH/FTTB/CATV  
ACCESS NETWORK: xDSL, LONG-HAUL/METRO  
LOOP NETWORK: OUTDOOR  
WIRELESS NETWORK: BACKHAUL

1424-XR/ID-SEWER



The 3M™ EMS Extended-Range Ball Markers have a self-leveling design providing accurate, horizontal position regardless of how it is placed in the ground, making the job of precisely locating underground facilities easier.

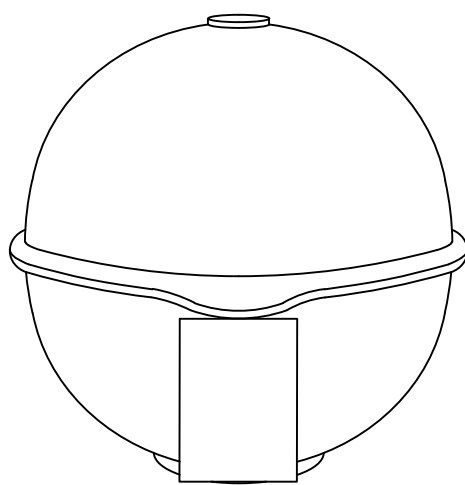
Featured Benefits

- Positive identification of underground wastewater facilities
- iD Marker allows for programming of customer specific information
- Unique self leveling design simplifies installation
- No external power source needed
- Resistant to elements
- 5 foot (1.5 meter) detection distance
- Color conforms to APWA standards

SPECIFICATIONS:

COLOR: GREEN  
DIAMETER (METRIC): 10.4 CM  
EMS CAUTION TAPE FINDING CAPABILITY: N/A  
MARKER DEPTH: 5 FEET (1.5M)  
MARKER DIMENSION (INCH): 4 INCH DIAMETER  
MARKER TYPE: BALL  
NUMBER OF FREQUENCIES: N/A  
PROGRAMMABLE/PASSIVE: PROGRAMMABLE  
RANGE: 0 TO 5 LINEAR FOOT  
RoHS 2011/65/EU Compliant: UNDETERMINED  
RoHS EU Comments: CONTACT 3M FOR INFORMATION  
Solution for: ACCESS NETWORK: FTTH/FTTB/CATV  
ACCESS NETWORK: xDSL, LONG-HAUL/METRO  
LOOP NETWORK: OUTDOOR  
WIRELESS NETWORK: BACKHAUL

1428-XR/ID-RECLAIMED



The 3M™ EMS Extended-Range Ball Markers have a self-leveling design providing accurate, horizontal position regardless of how it is placed in the ground, making the job of precisely locating underground facilities easier.

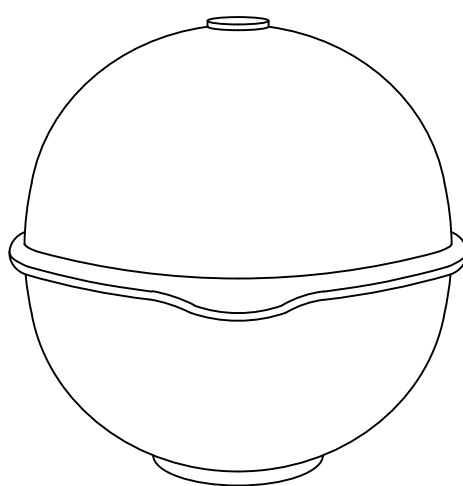
Featured Benefits

- Positive identification of underground general purpose / reclaimed water facilities
- iD Marker allows for programming of customer specific information
- Unique self leveling design simplifies installation
- No external power source needed
- Resistant to elements
- 5 foot (1.5 meter) detection distance
- Color conforms to APWA standards

SPECIFICATIONS:

COLOR: PURPLE  
DIAMETER (METRIC): 10.4 CM  
EMS CAUTION TAPE FINDING CAPABILITY: N/A  
MARKER DEPTH: 5 FEET (1.5M)  
MARKER DIMENSION (INCH): 4 INCH DIAMETER  
MARKER TYPE: BALL  
NUMBER OF FREQUENCIES: N/A  
PROGRAMMABLE/PASSIVE: PROGRAMMABLE  
RANGE: 0 TO 5 LINEAR FOOT  
RoHS 2011/65/EU Compliant: UNDETERMINED  
RoHS EU Comments: CONTACT 3M FOR INFORMATION  
Solution for: ACCESS NETWORK: FTTH/FTTB/CATV  
ACCESS NETWORK: xDSL, LONG-HAUL/METRO  
LOOP NETWORK: OUTDOOR  
WIRELESS NETWORK: BACKHAUL

1403-XR-POTABLE



The 3M™ EMS Extended-Range Ball Markers have a self-leveling design providing accurate, horizontal position regardless of how it is placed in the ground, making the job of precisely locating underground facilities easier.

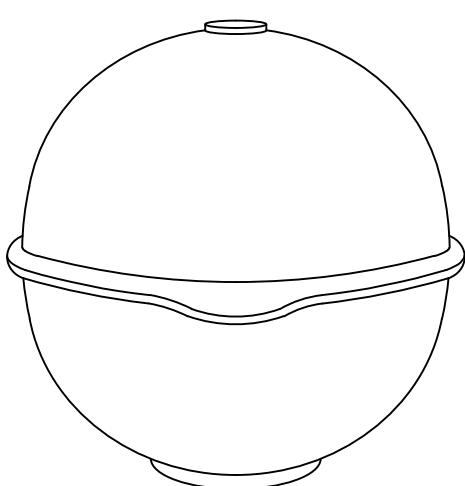
Featured Benefits

- Positive identification of underground water facilities
- Unique self leveling design simplifies installation
- No external power source needed
- Resistant to elements
- 5 foot (1.5 meter) detection distance
- Color conforms to APWA standards

SPECIFICATIONS:

COLOR: BLUE  
DIAMETER (METRIC): 10.4 CM  
EMS CAUTION TAPE FINDING CAPABILITY: N/A  
MARKER DEPTH: 5 FEET (1.5M)  
MARKER DIMENSION (INCH): 4 INCH DIAMETER  
MARKER TYPE: BALL  
NUMBER OF FREQUENCIES: N/A  
PROGRAMMABLE/PASSIVE: PASSIVE  
RANGE: 0 TO 5 LINEAR FOOT  
RoHS 2011/65/EU Compliant: UNDETERMINED  
RoHS EU Comments: CONTACT 3M FOR INFORMATION  
Solution for: ACCESS NETWORK: FTTH/FTTB/CATV  
ACCESS NETWORK: xDSL, LONG-HAUL/METRO  
LOOP NETWORK: OUTDOOR  
WIRELESS NETWORK: BACKHAUL

1404-XR-SEWER



The 3M™ EMS Extended-Range Ball Markers have a self-leveling design providing accurate, horizontal position regardless of how it is placed in the ground, making the job of precisely locating underground facilities easier.

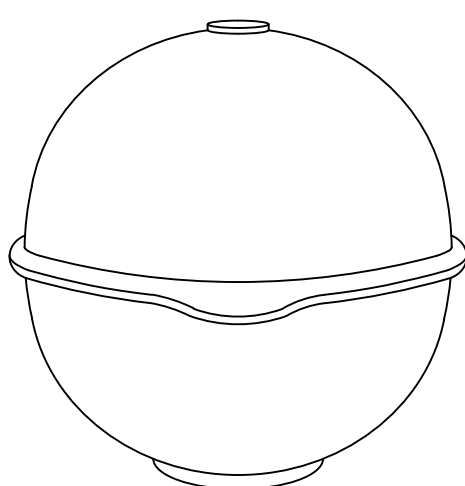
Featured Benefits

- Positive identification of underground wastewater facilities
- Unique self leveling design simplifies installation
- No external power source needed
- Resistant to elements
- 5 foot (1.5 meter) detection distance
- Color conforms to APWA standards

SPECIFICATIONS:

COLOR: GREEN  
DIAMETER (METRIC): 10.4 CM  
EMS CAUTION TAPE FINDING CAPABILITY: N/A  
MARKER DEPTH: 5 FEET (1.5M)  
MARKER DIMENSION (INCH): 4 INCH DIAMETER  
MARKER TYPE: BALL  
NUMBER OF FREQUENCIES: N/A  
PROGRAMMABLE/PASSIVE: PASSIVE  
RANGE: 0 TO 5 LINEAR FOOT  
RoHS 2011/65/EU Compliant: UNDETERMINED  
RoHS EU Comments: CONTACT 3M FOR INFORMATION  
Solution for: ACCESS NETWORK: FTTH/FTTB/CATV  
ACCESS NETWORK: xDSL, LONG-HAUL/METRO  
LOOP NETWORK: OUTDOOR  
WIRELESS NETWORK: BACKHAUL

1408-XR-RECLAIMED



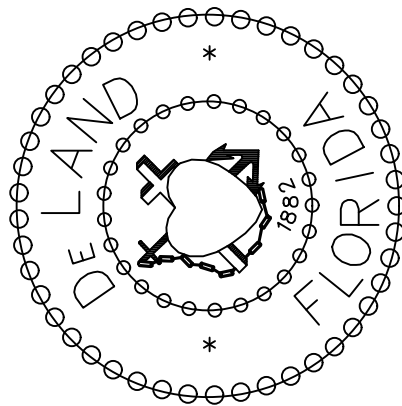
The 3M™ EMS Extended-Range Ball Markers have a self-leveling design providing accurate, horizontal position regardless of how it is placed in the ground, making the job of precisely locating underground facilities easier.

Featured Benefits

- Positive identification of underground general purpose facilities
- Unique self leveling design simplifies installation
- No external power source needed
- Resistant to elements
- 5 foot (1.5 meter) detection distance
- Color conforms to APWA standards

SPECIFICATIONS:

COLOR: PURPLE  
DIAMETER (METRIC): 10.4 CM  
EMS CAUTION TAPE FINDING CAPABILITY: N/A  
MARKER DEPTH: 5 FEET (1.5M)  
MARKER DIMENSION (INCH): 4 INCH DIAMETER  
MARKER TYPE: BALL  
NUMBER OF FREQUENCIES: N/A  
PROGRAMMABLE/PASSIVE: PASSIVE  
RANGE: 0 TO 5 LINEAR FOOT  
RoHS 2011/65/EU Compliant: UNDETERMINED  
RoHS EU Comments: CONTACT 3M FOR INFORMATION  
Solution for: ACCESS NETWORK: FTTH/FTTB/CATV  
ACCESS NETWORK: xDSL, LONG-HAUL/METRO  
LOOP NETWORK: OUTDOOR  
WIRELESS NETWORK: BACKHAUL



CITY OF DELAND, FLORIDA  
1102 S. GARFIELD AVENUE, DELAND, FLORIDA 32724

DATE: 11/05/2021  
CHECKED BY: ERIC M. SAMPSON

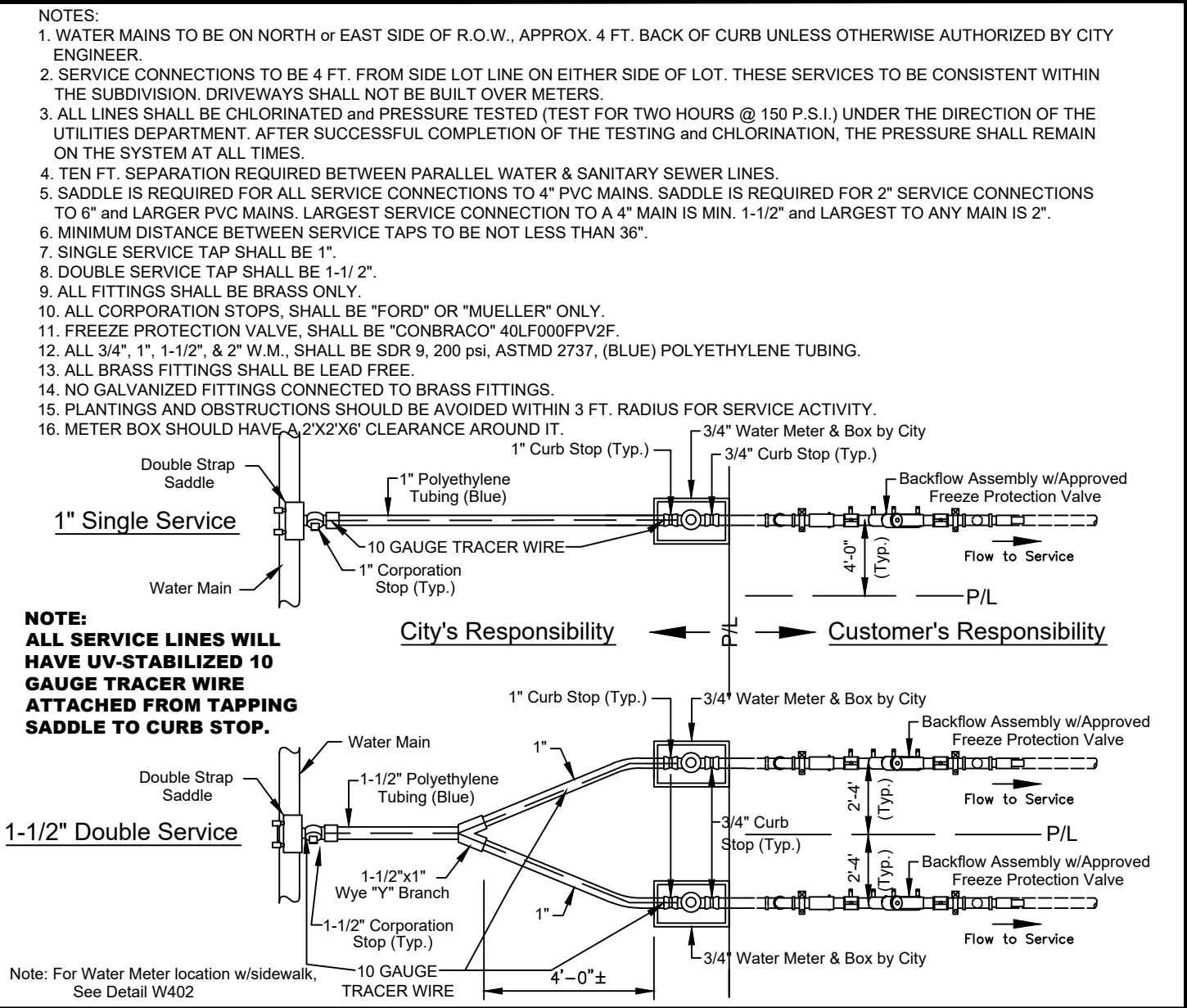
SCALE: NOT TO SCALE  
DRAWN BY: MARK LA GRECA

UTILITY MARKER BALL LOCATORS

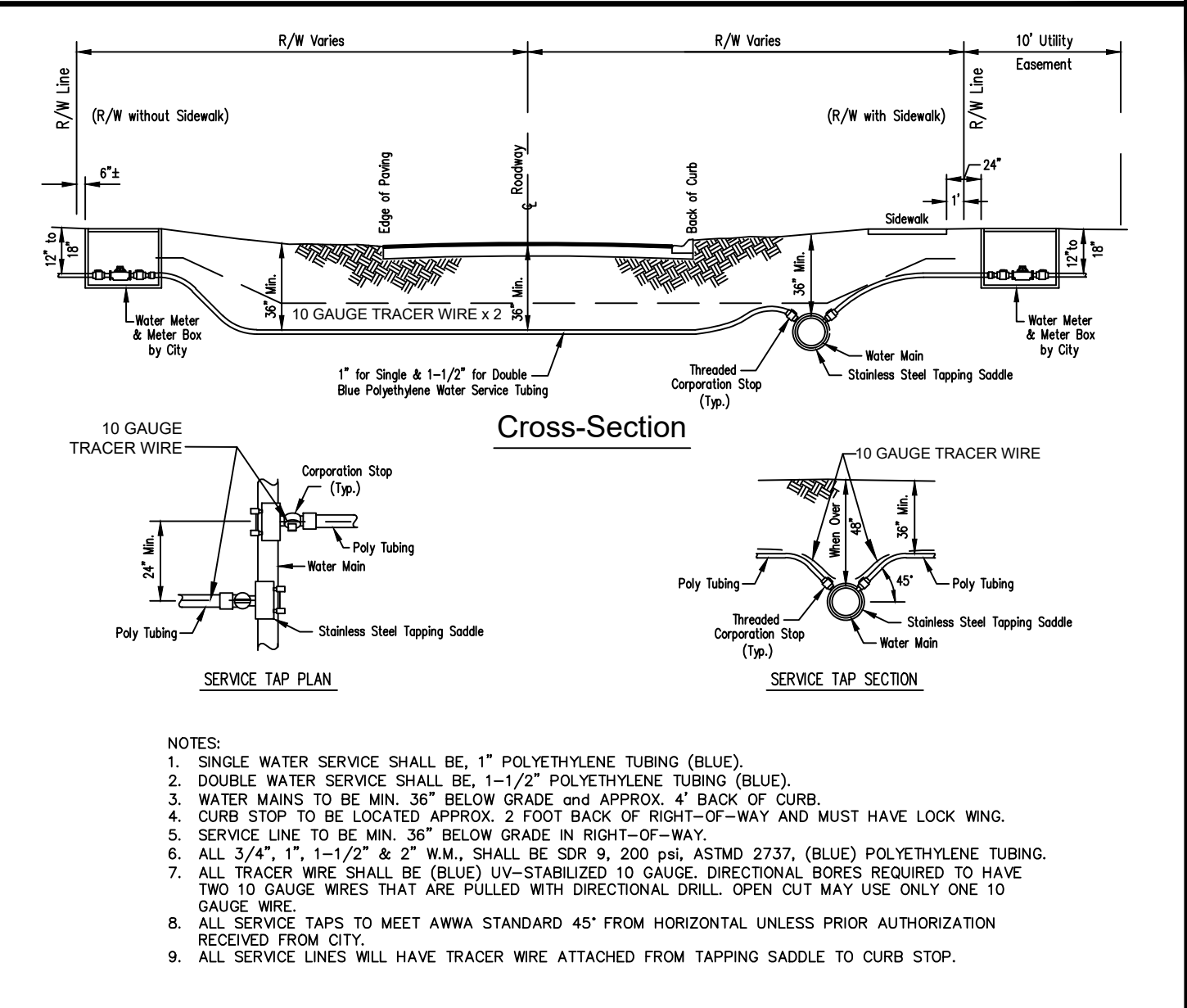
TITLE:

FILE: drive letter/details locations

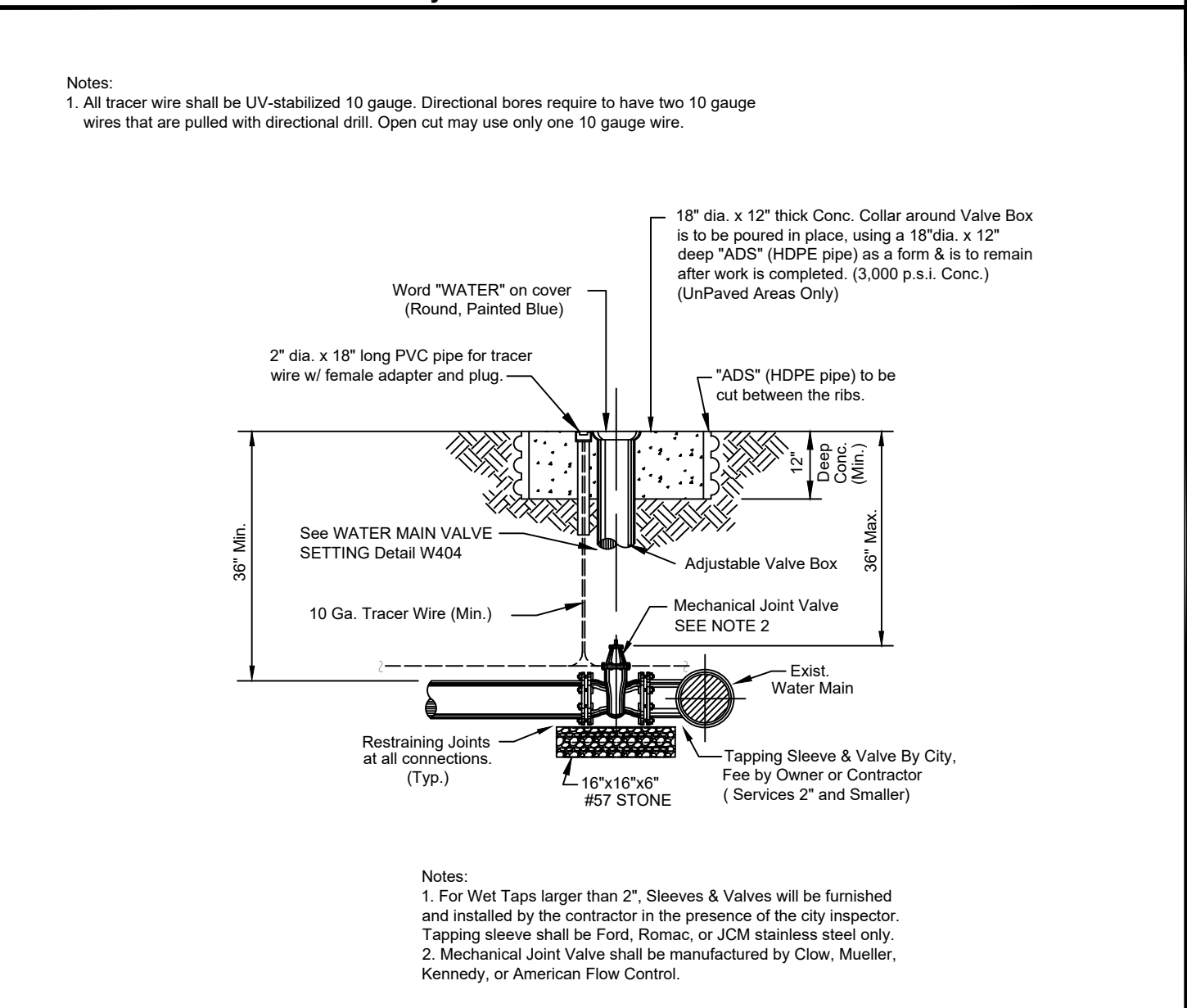




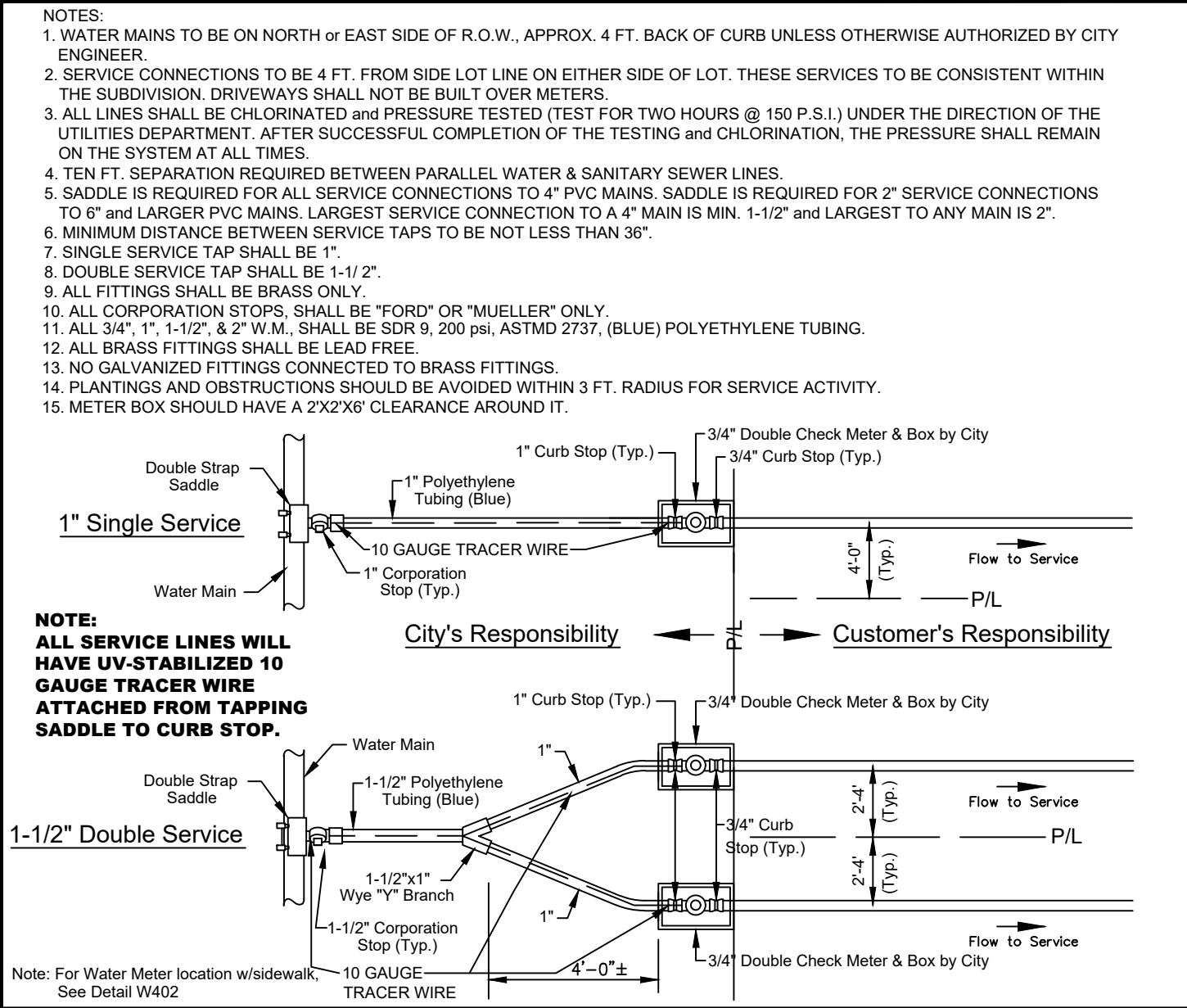
DATE: 11/05/2021 **WATER MAIN SERVICE CONNECTION (BACKFLOW)** **W401**  
**City of DeLand - Standard Details**



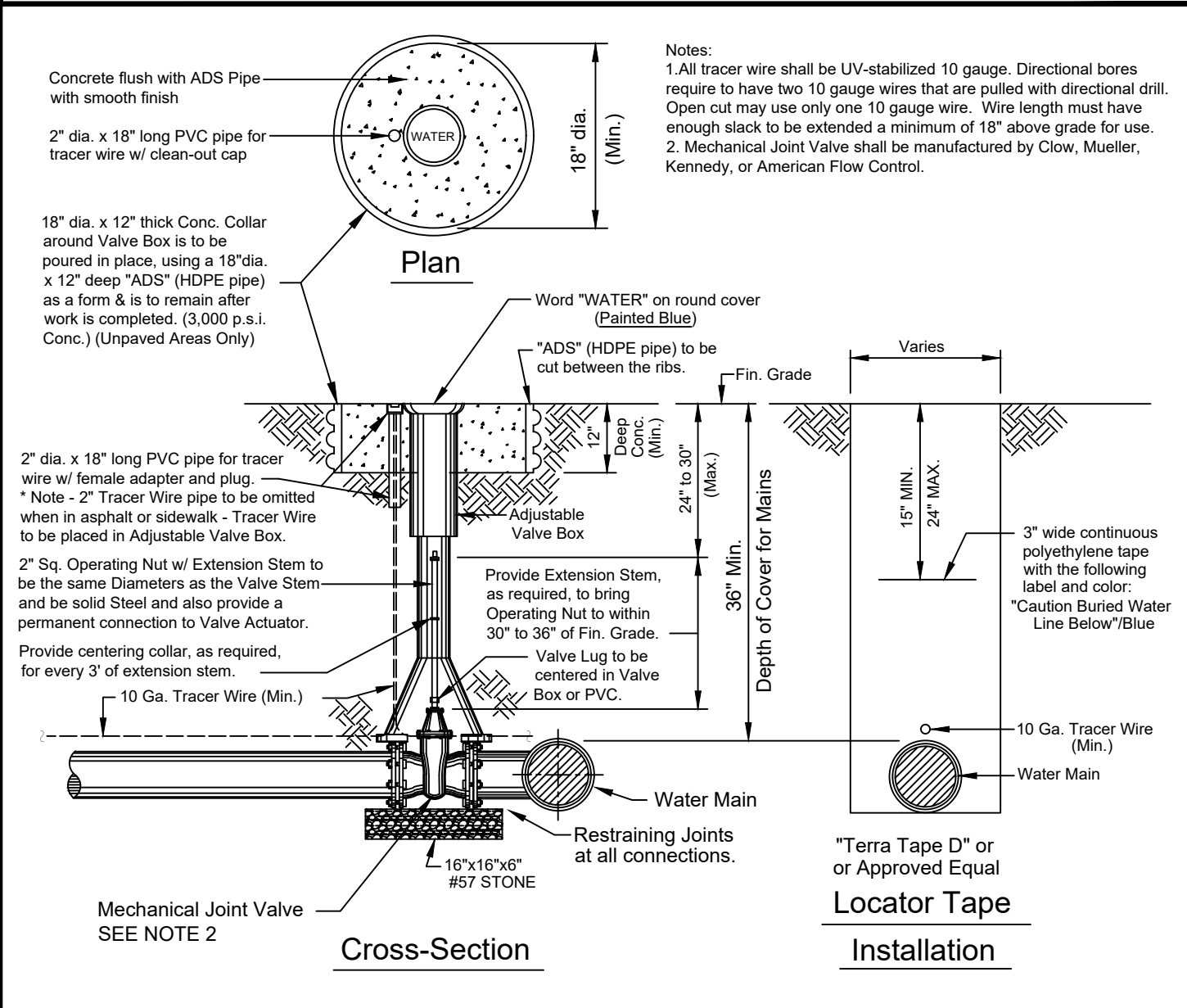
DATE: 11/05/2021 **WATER MAIN SERVICE LINES** **W403**  
**City of DeLand - Standard Details**



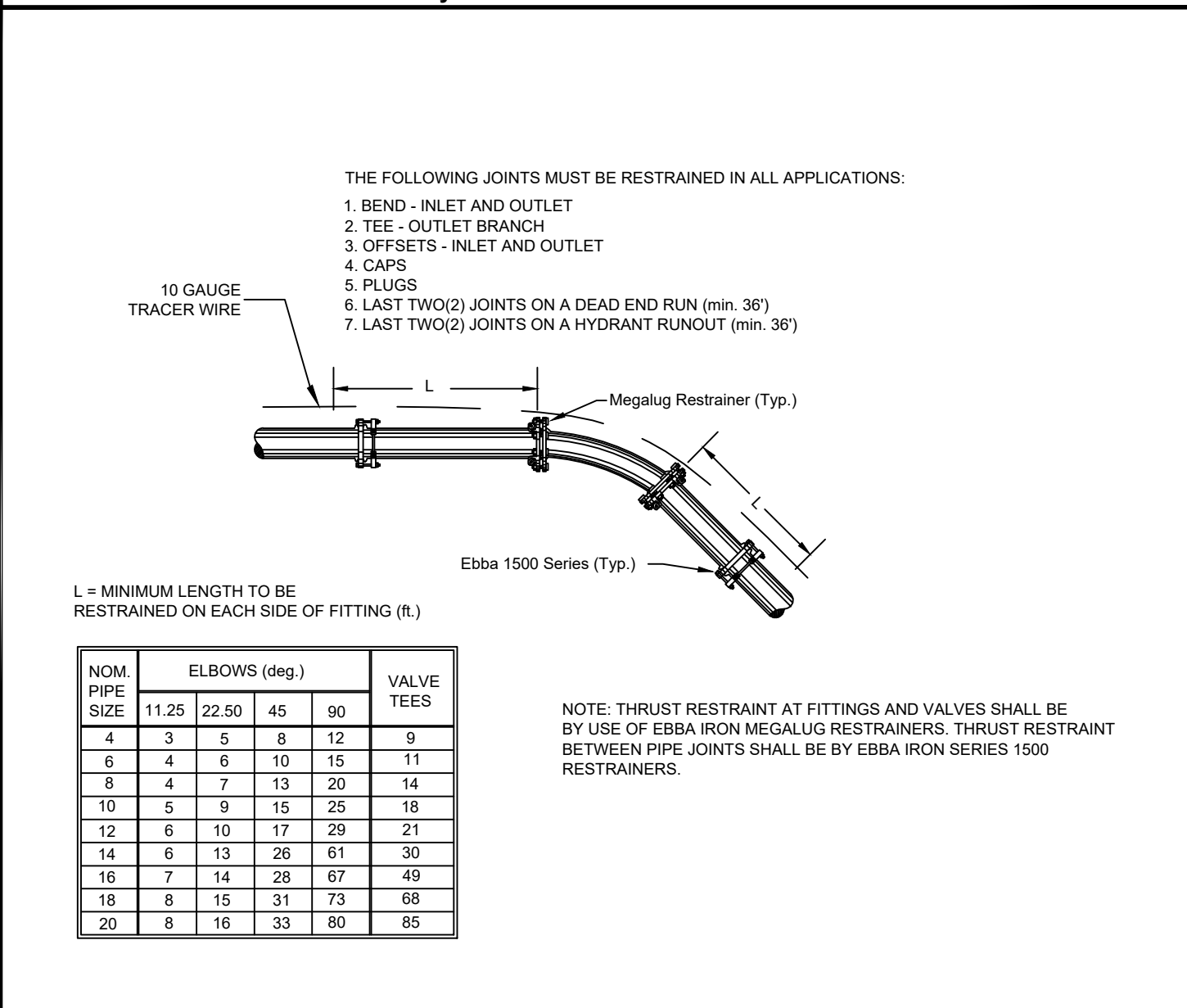
DATE: 11/05/2021 **TAPPING SLEEVE & VALVE** **W407**  
**City of DeLand - Standard Details**



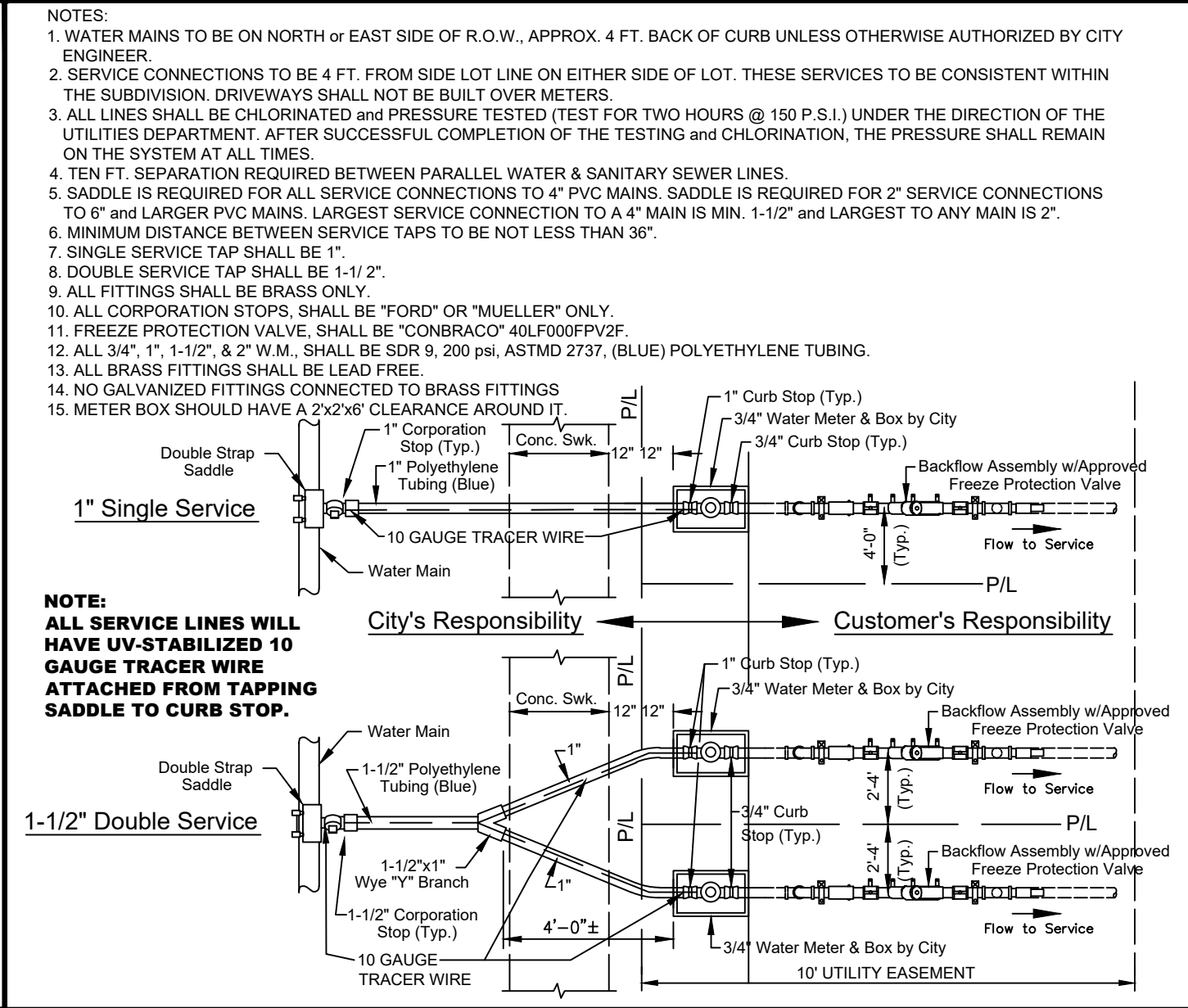
DATE: 11/05/2021 **WATER MAIN SERVICE CONNECTION (DOUBLE CHECK METER)** **W401A**  
**City of DeLand - Standard Details**



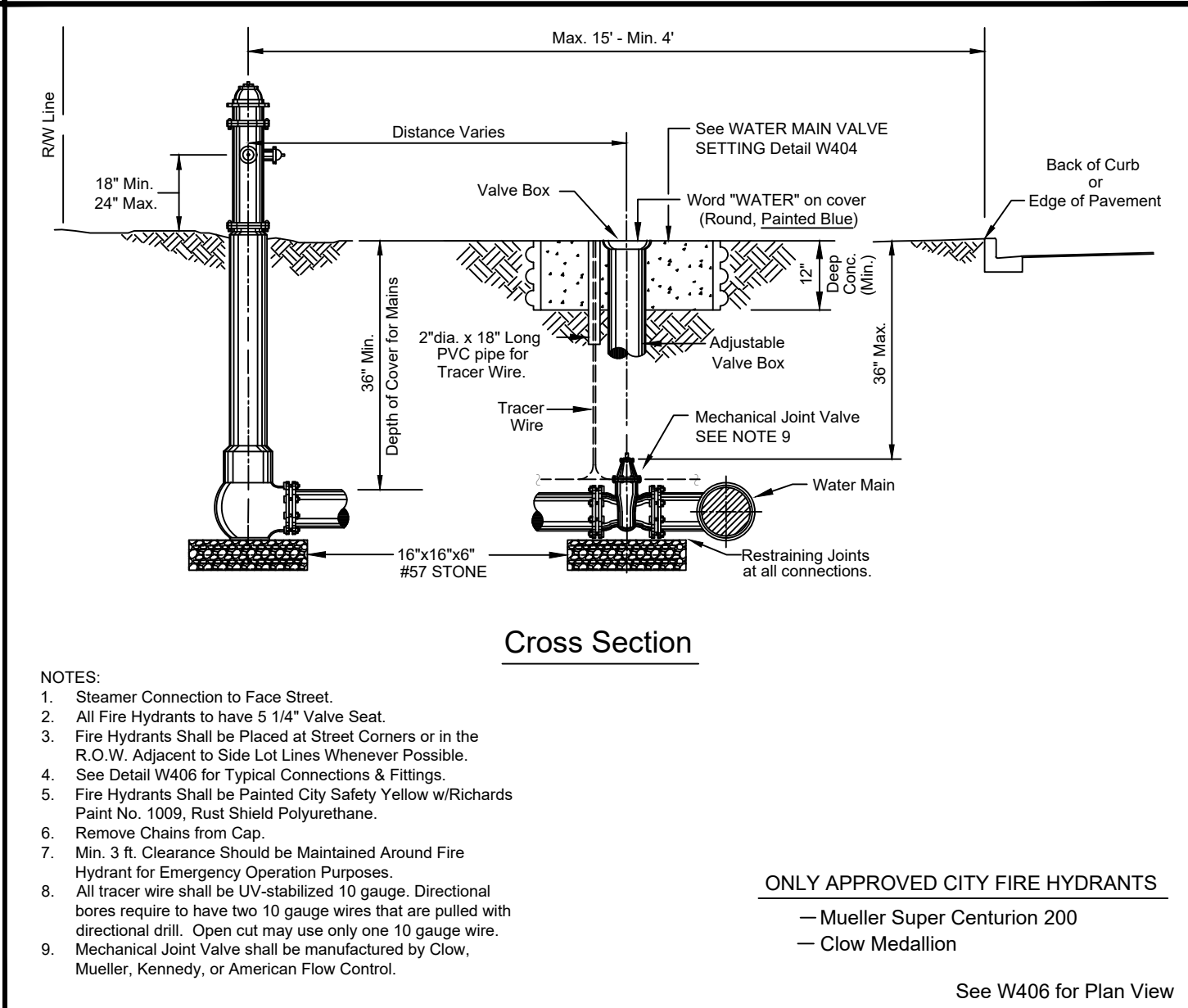
DATE: 11/05/2021 **WATER MAIN VALVE SETTING** **W404**  
**City of Deland - Standard Details**



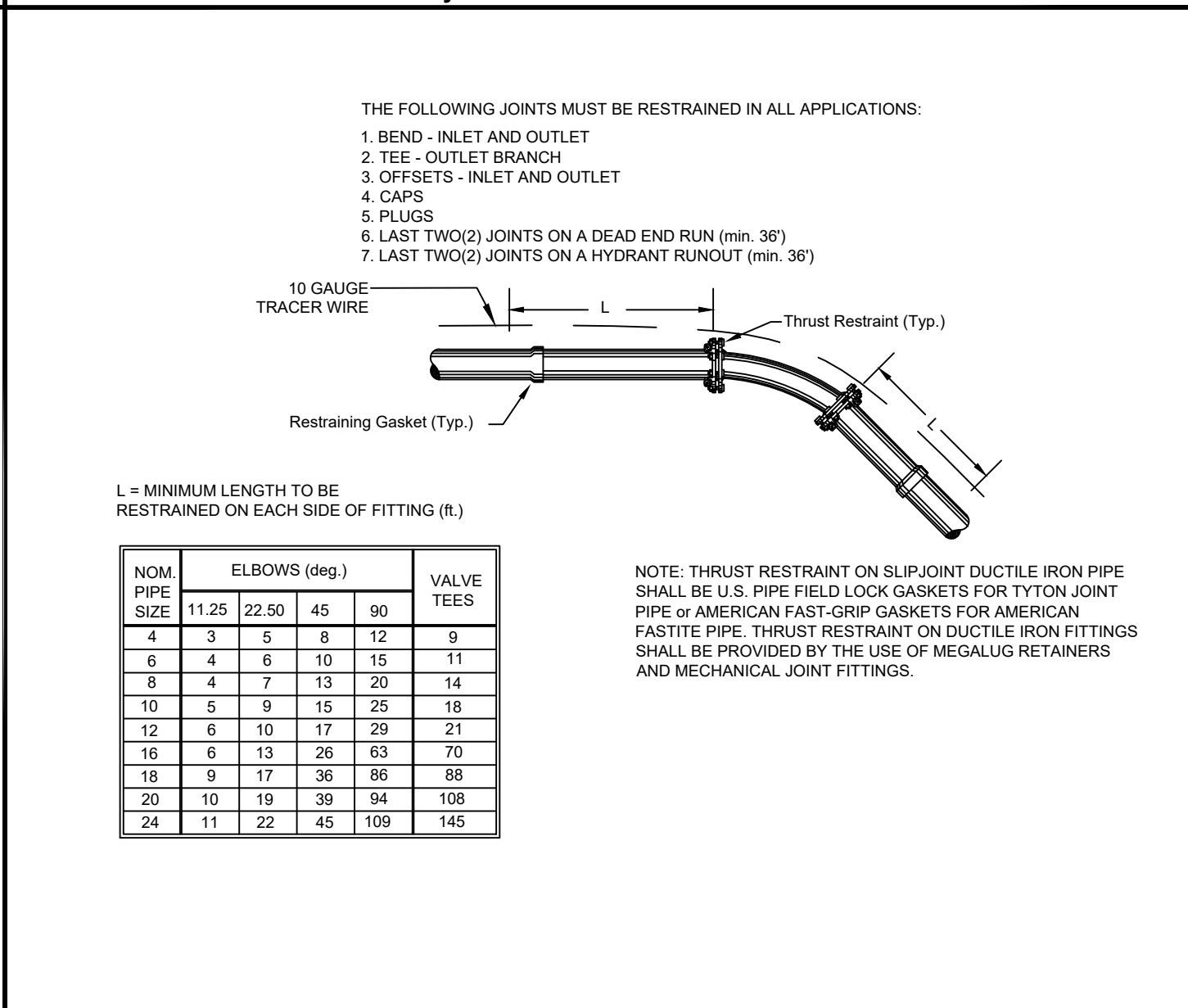
DATE: 11/05/2021 **THRUST RESTRAINING DETAIL FOR PVC PIPE** **W408**  
**City of DeLand - Standard Details**



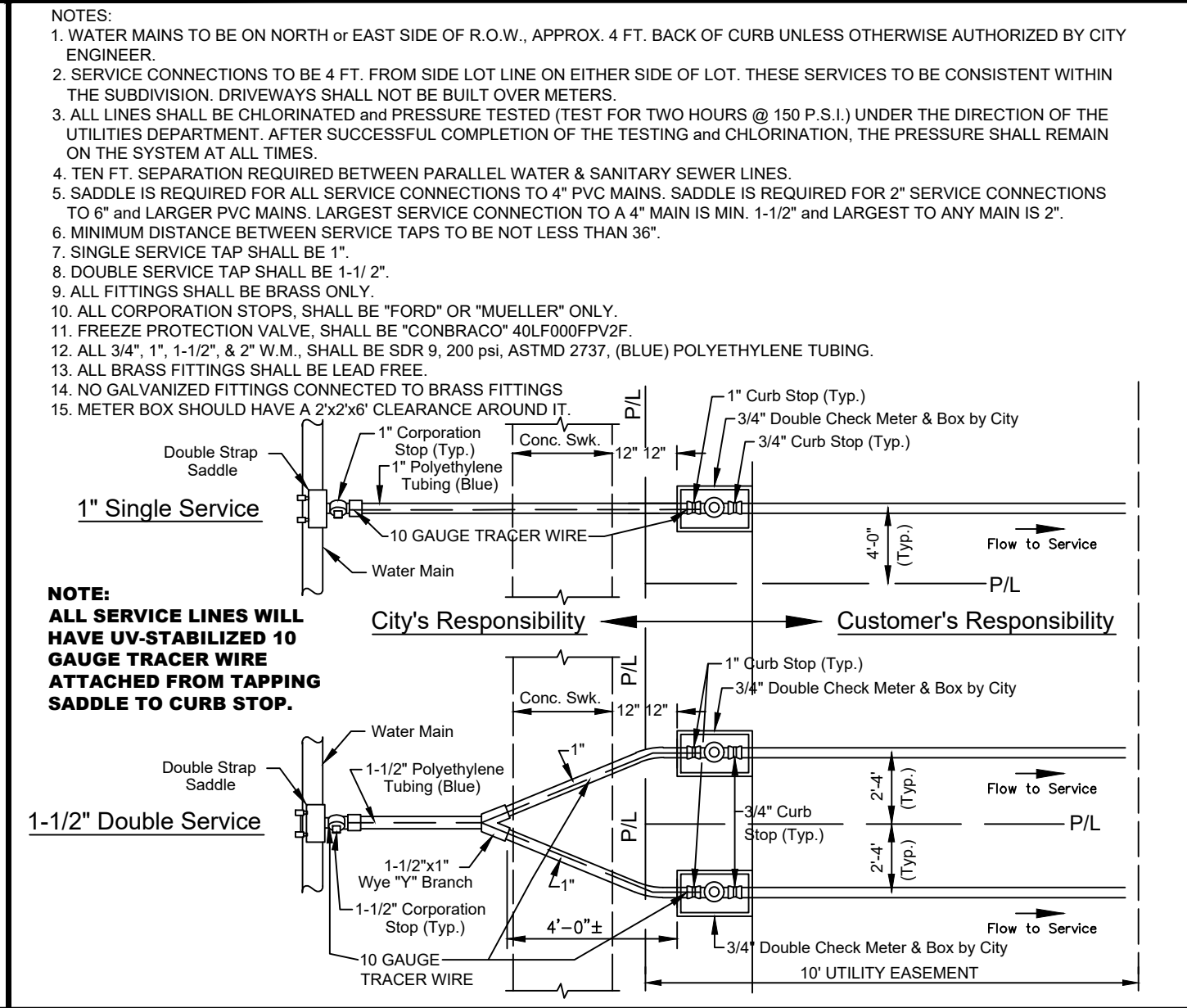
DATE: 11/05/2021 **WATER MAIN SERVICE CONNECTION WITH SIDEWALK (BACKFLOW)** **W402**  
**City of DeLand - Standard Details**



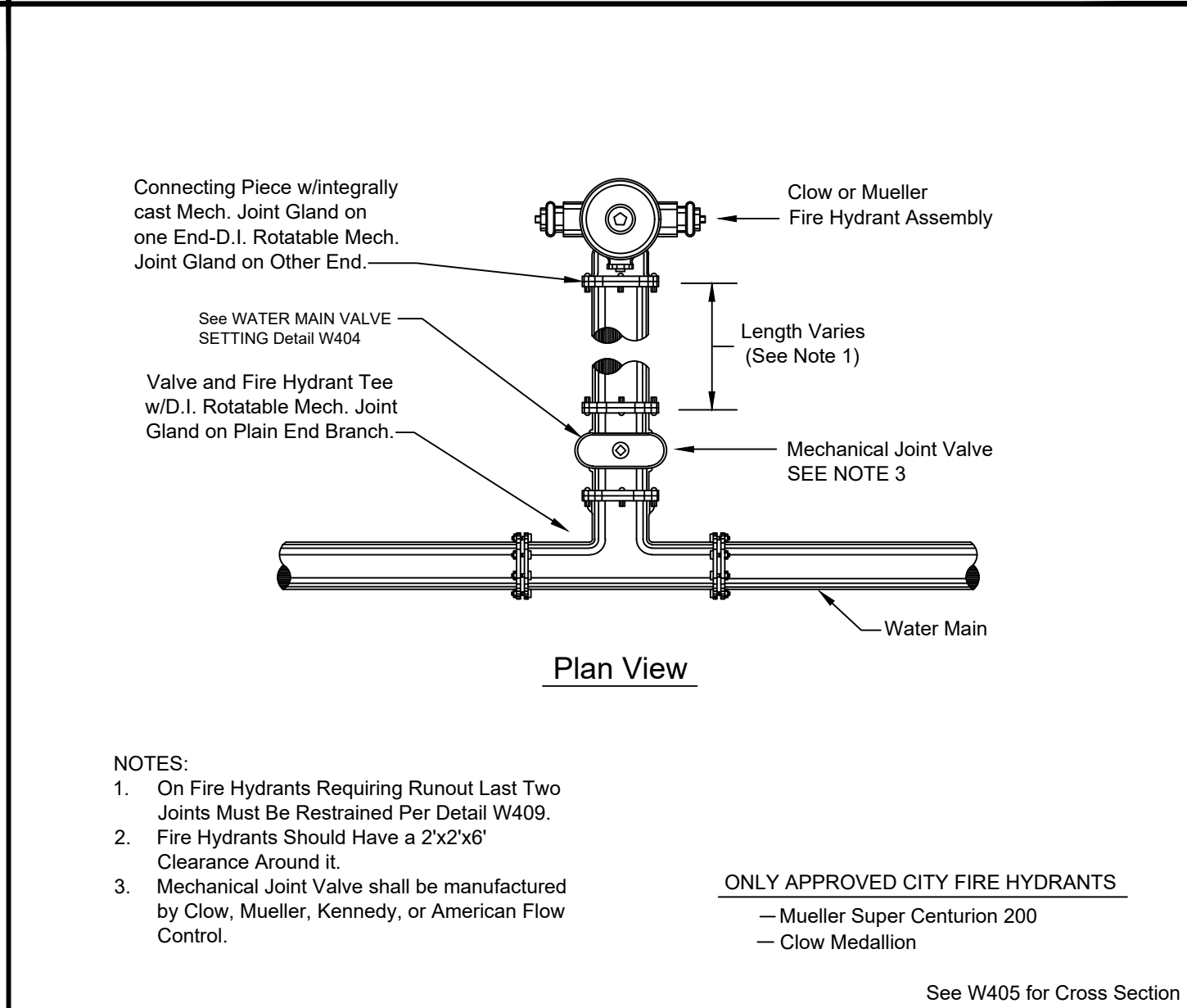
DATE: 11/05/2021 **FIRE HYDRANT SETTING SECTION** **W405**  
**City of DeLand - Standard Details**



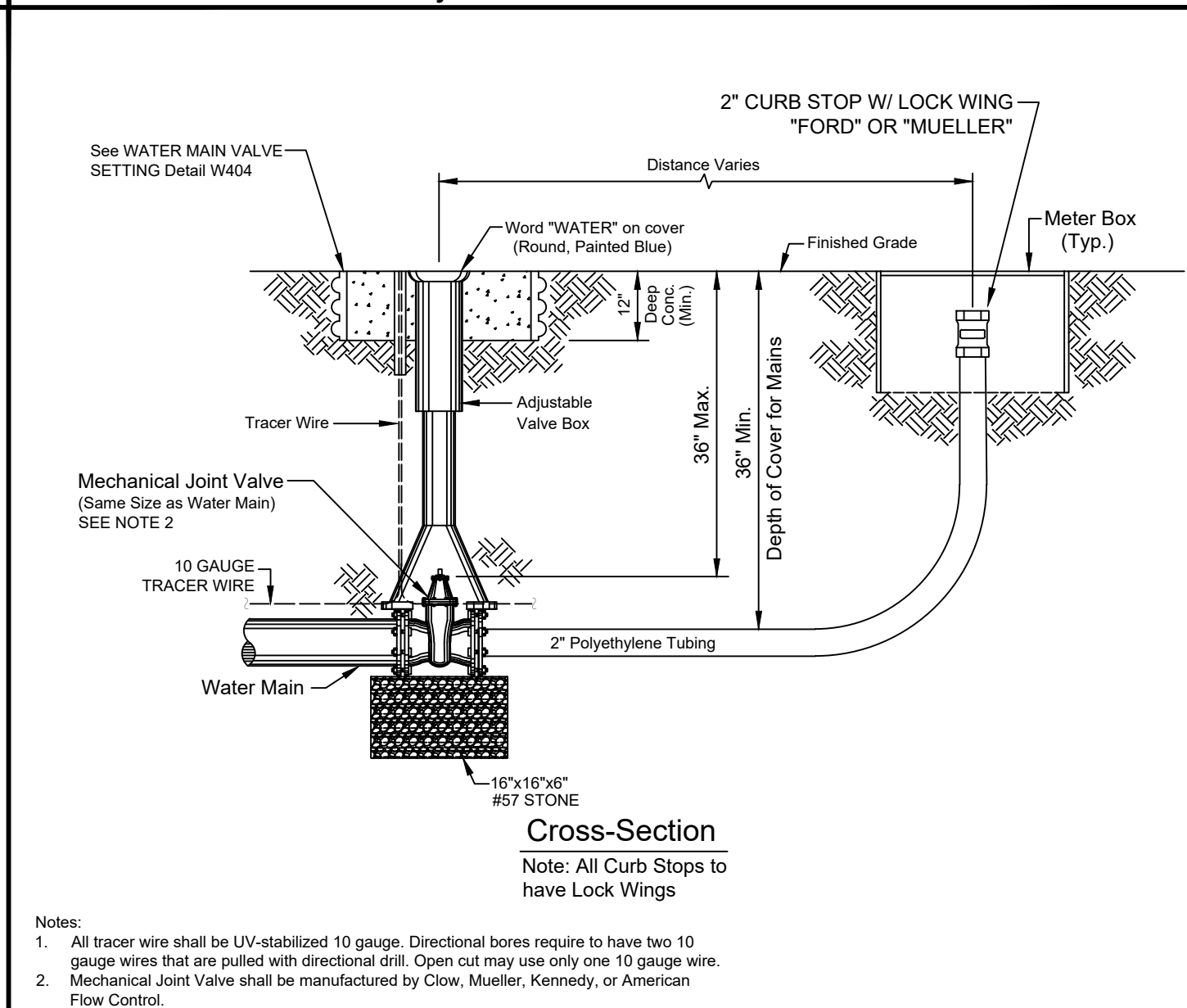
DATE: 11/05/2021 **THRUST RESTRAINING DETAIL FOR DUCTILE IRON PIPE** **W409**  
**City of DeLand - Standard Details**



DATE: 11/05/2021 **WATER MAIN SERVICE CONN. WITH SIDEWALK (DBL. CHECK METER)** **W402A**  
**City of DeLand - Standard Details**

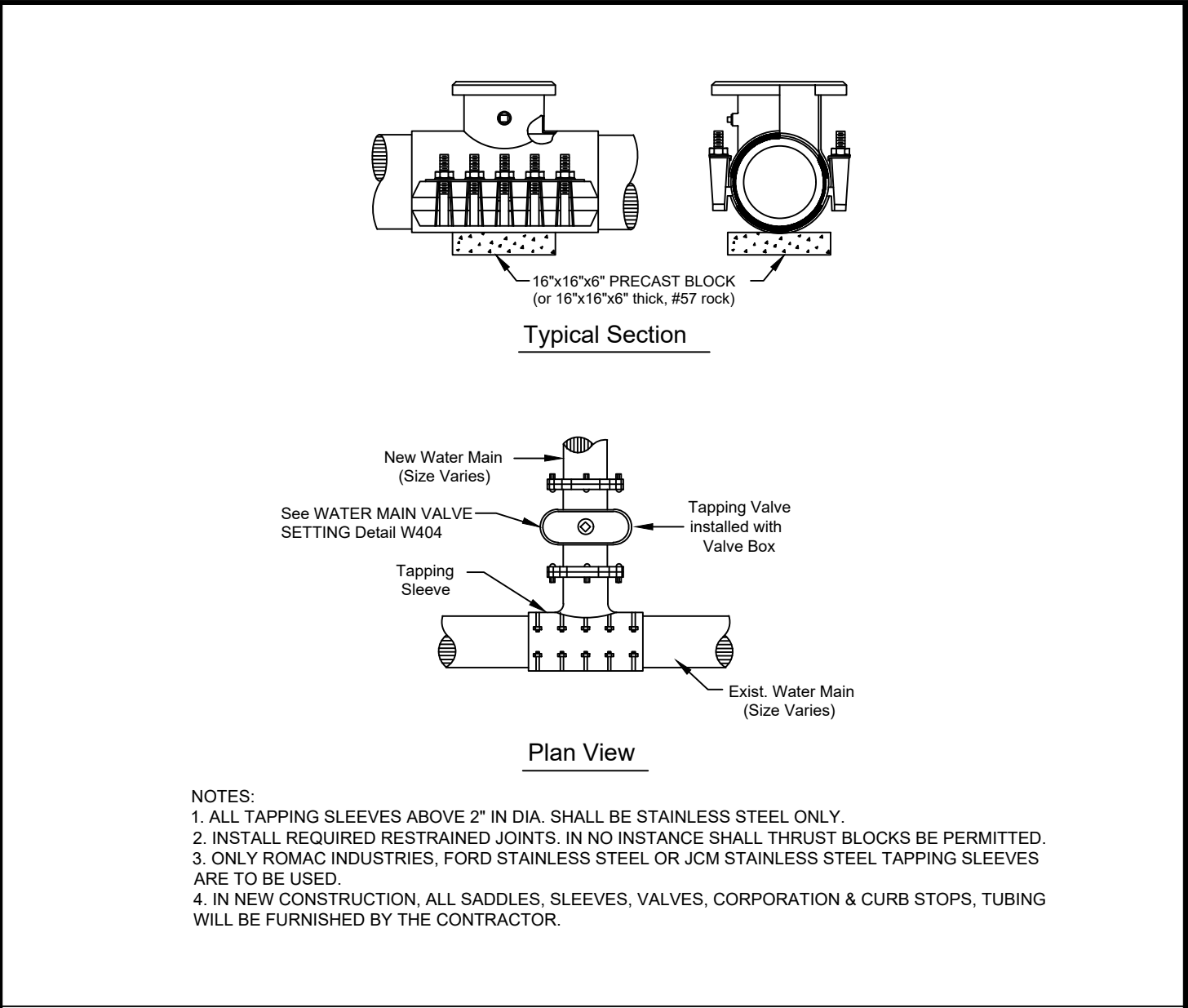
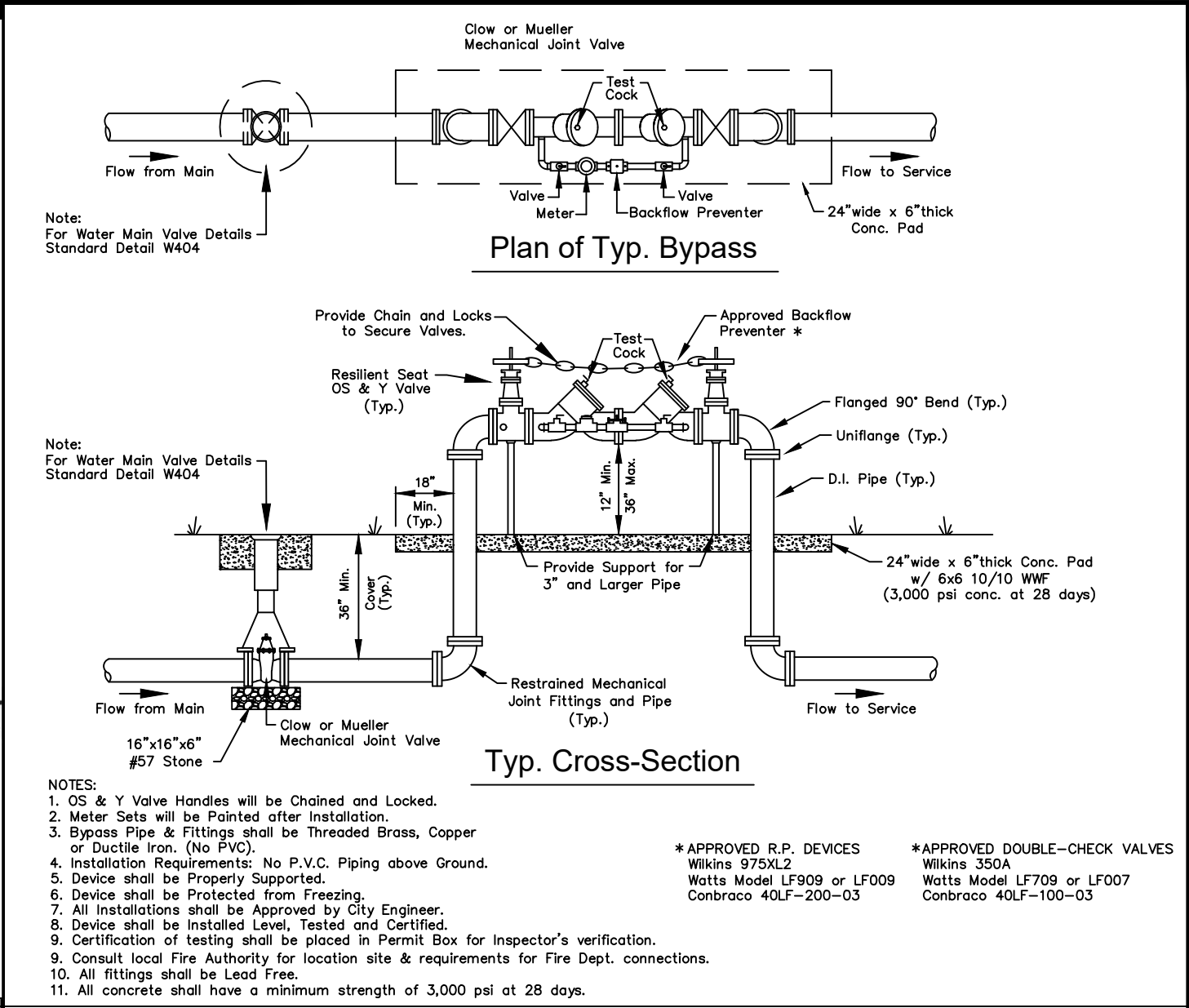
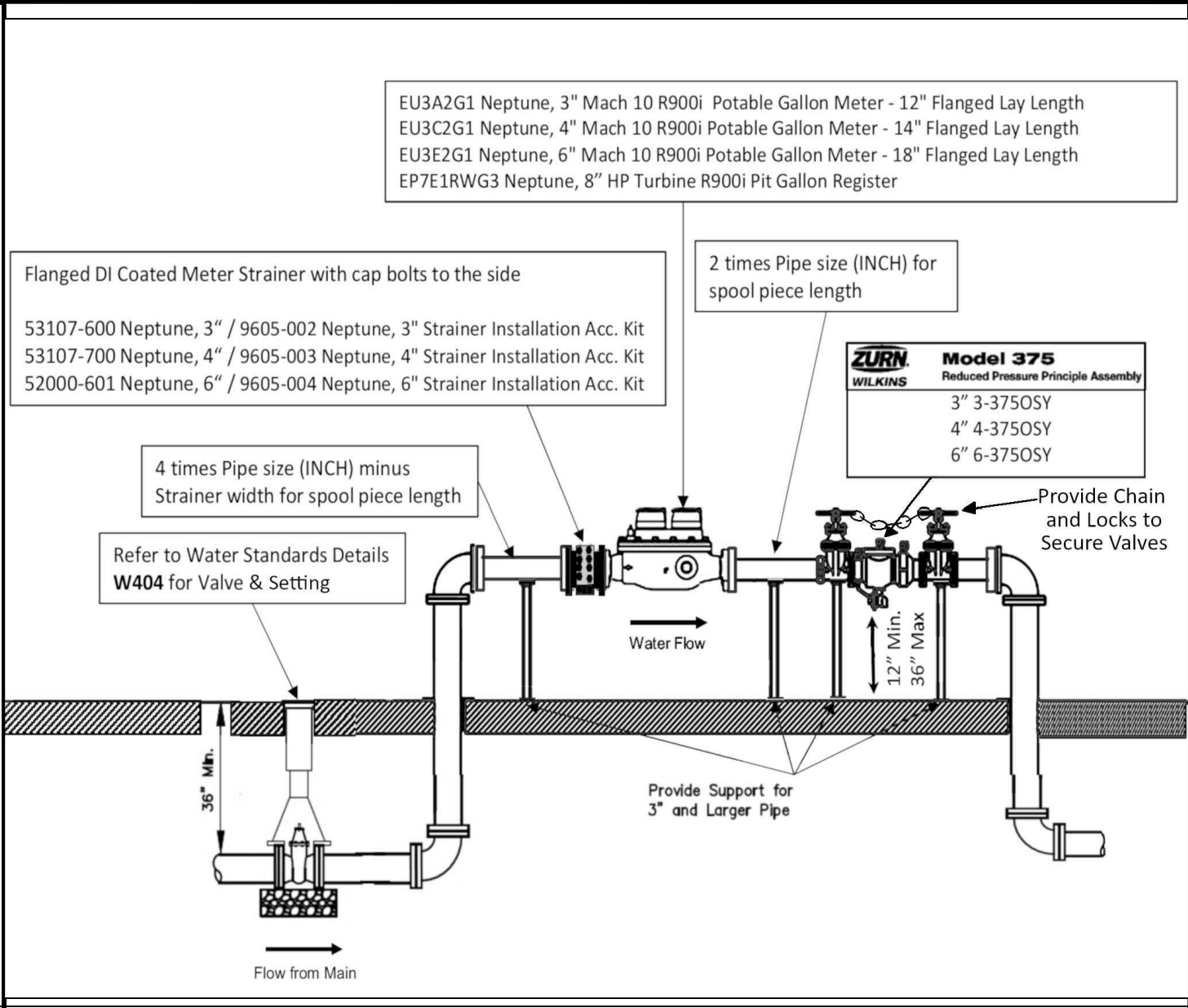
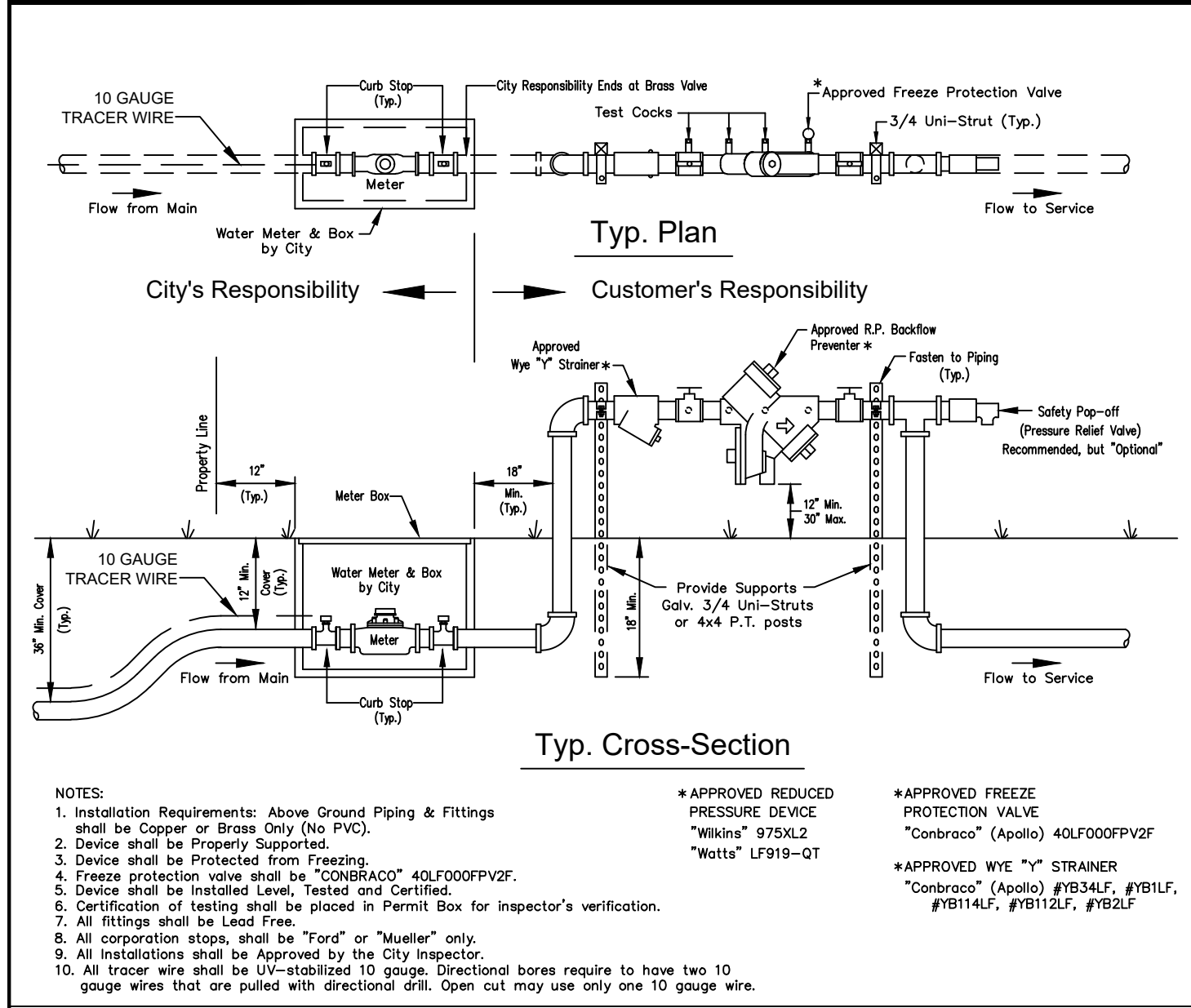


DATE: 11/05/2021 **FIRE HYDRANT SETTING PLAN** **W406**  
**City of DeLand - Standard Details**



DATE: 11/05/2021 **WATER MAIN BLOWOFF DETAIL** **W410**  
**City of DeLand - Standard Details**



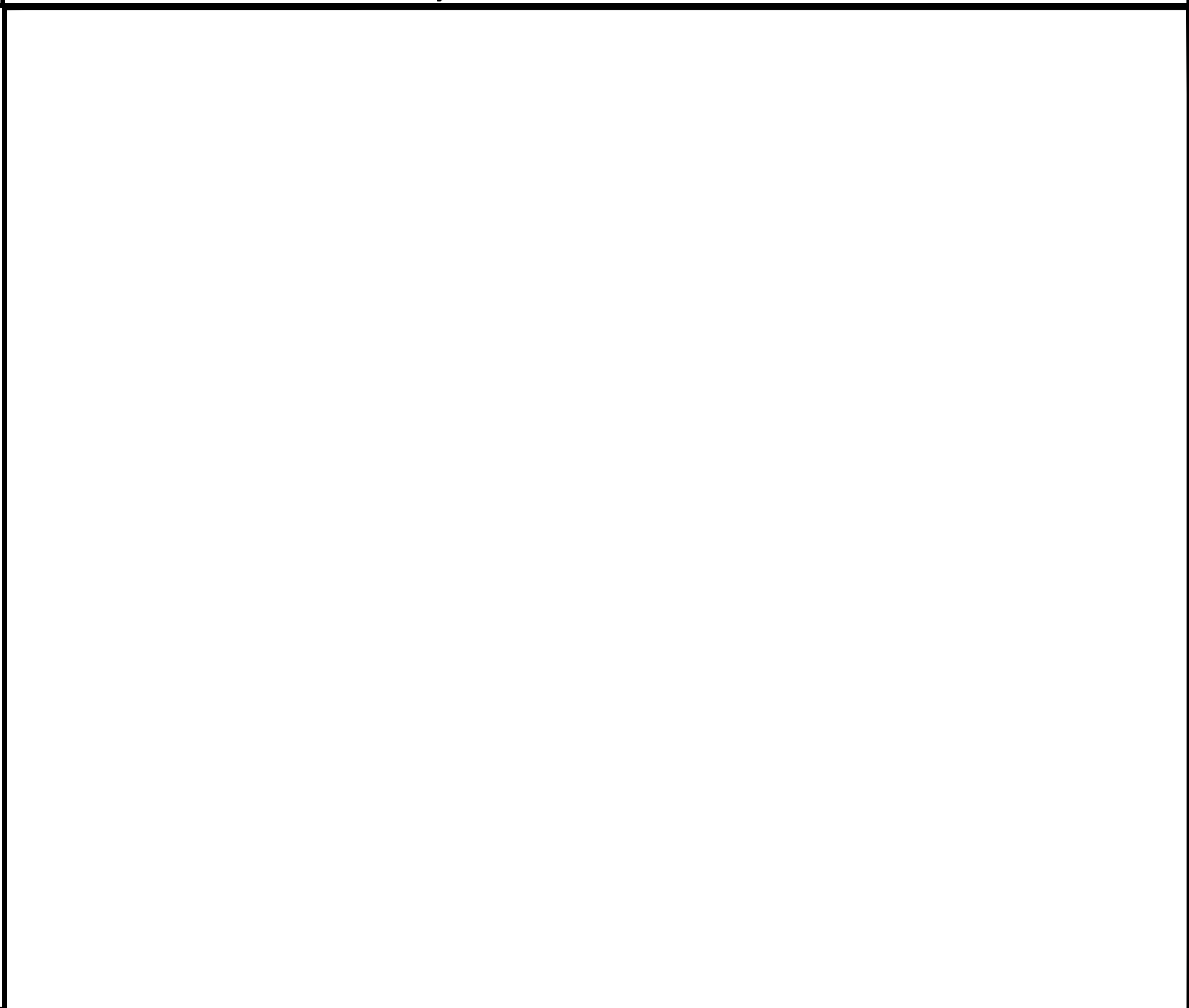
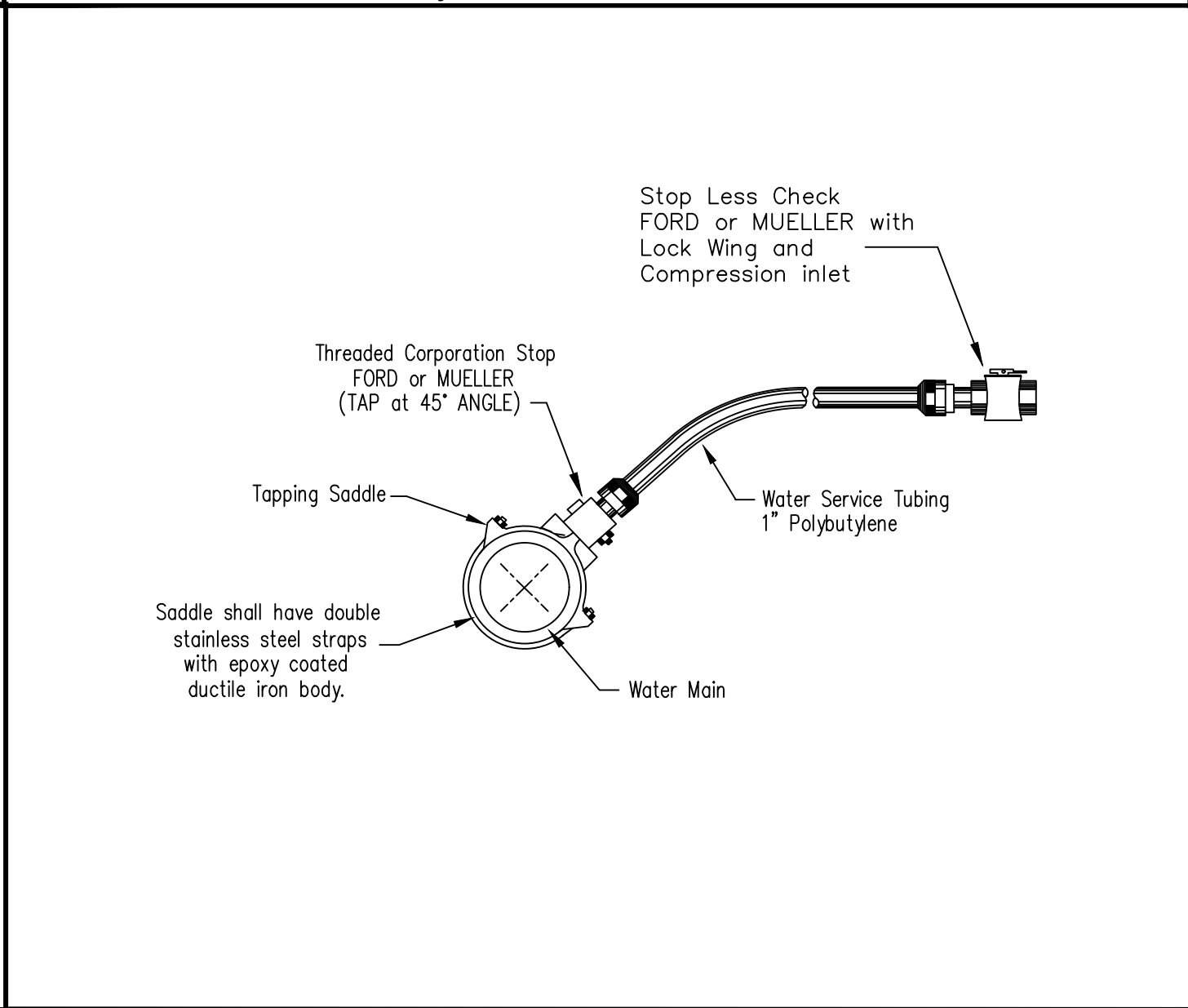
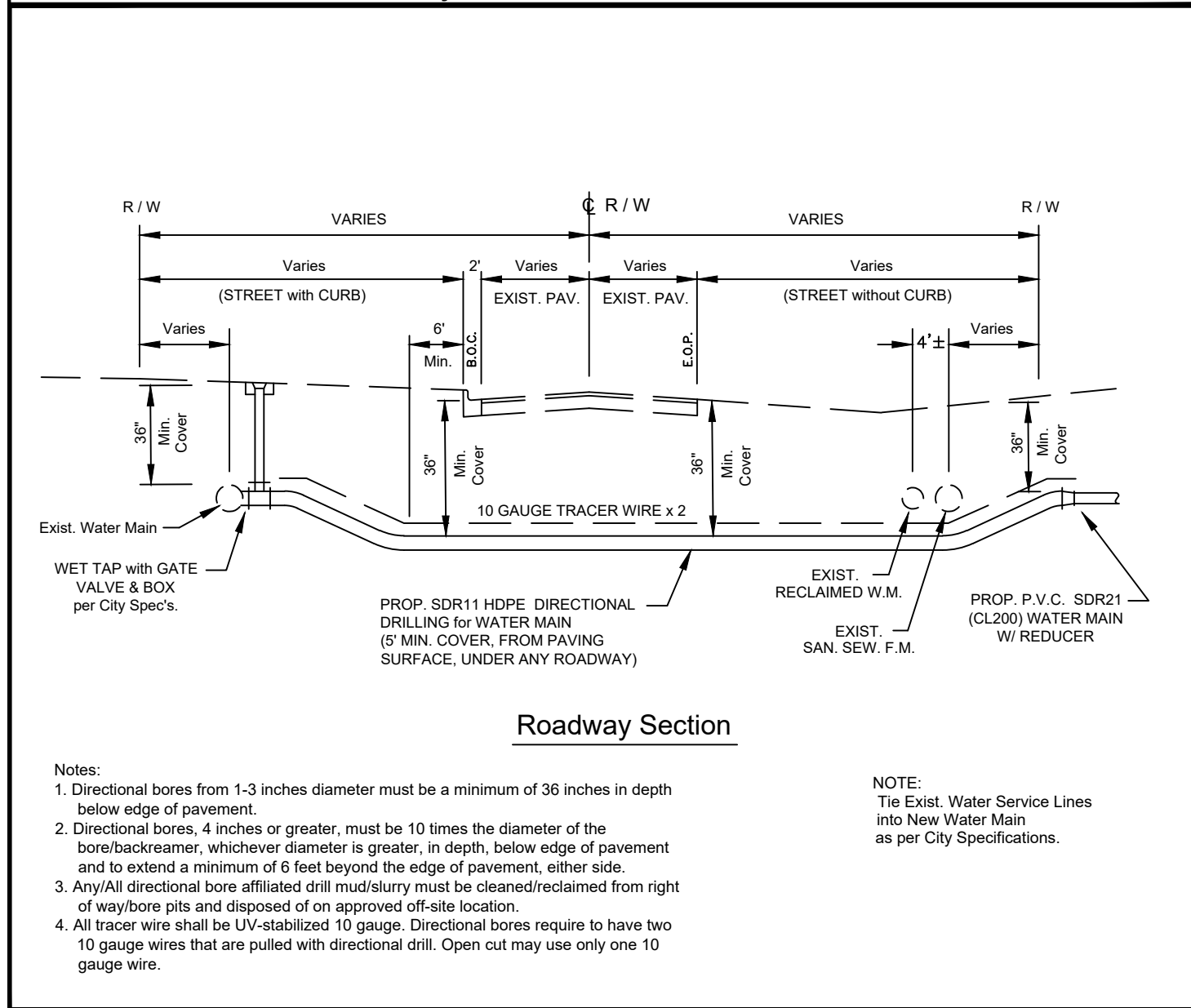


DATE: 11/05/2021 **WATER METER & BACKFLOW ASSEMBLY - 1" THRU 2-1/2" MODELS** **W411**  
**City of DeLand - Standard Details**

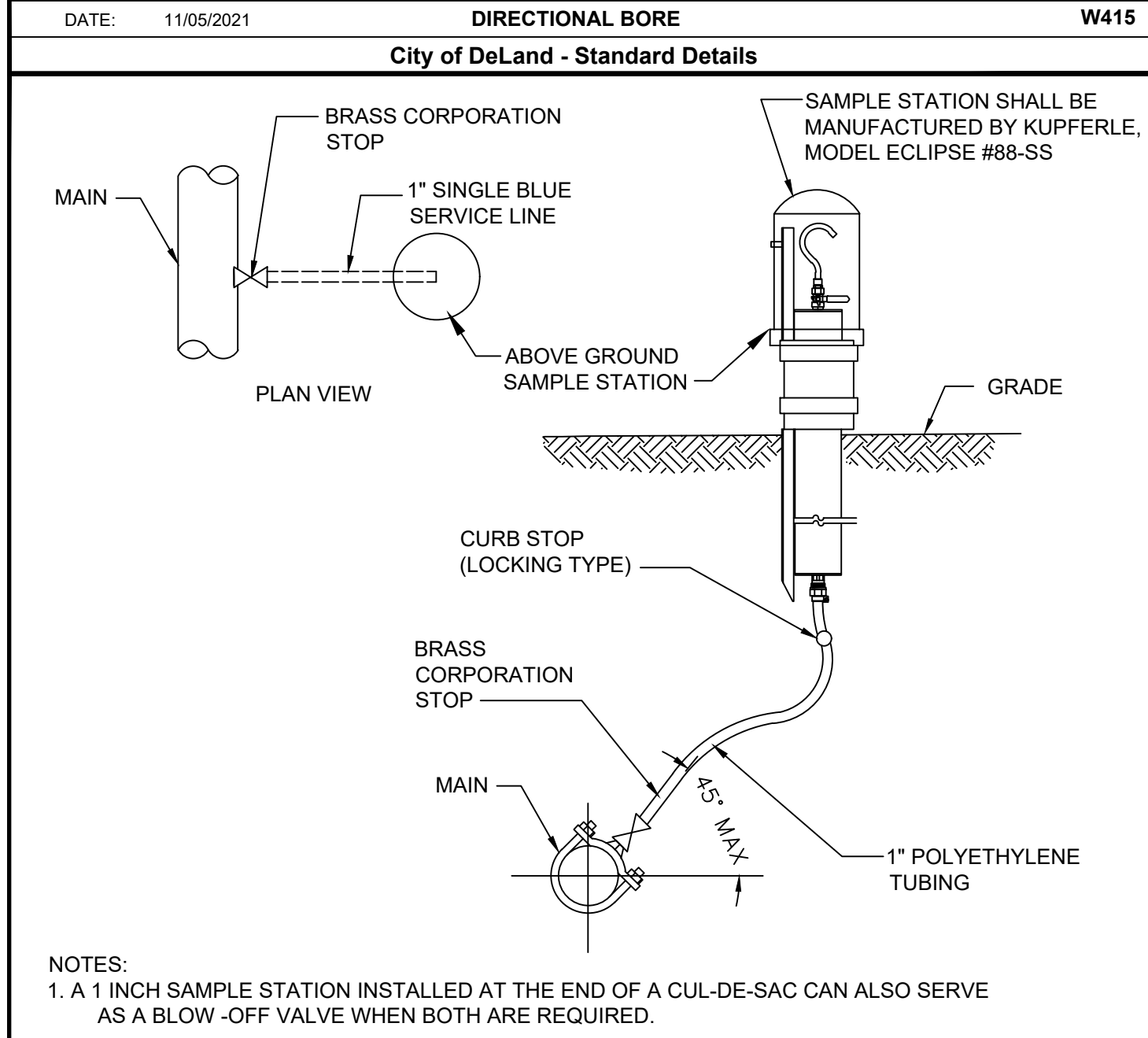
DATE: 11/05/2021 **3" AND ABOVE POTABLE WATER METER SET** **W412**  
**City of DeLand - Standard Details**

DATE: 11/05/2021 **DOUBLE DETECTOR CHECK VALVE ASSEMBLY - 4" THRU 12"** **W413**  
**City of DeLand - Standard Details**

DATE: 11/05/2021 **STAINLESS STEEL TAPPING SLEEVE** **W414**  
**City of DeLand - Standard Details**

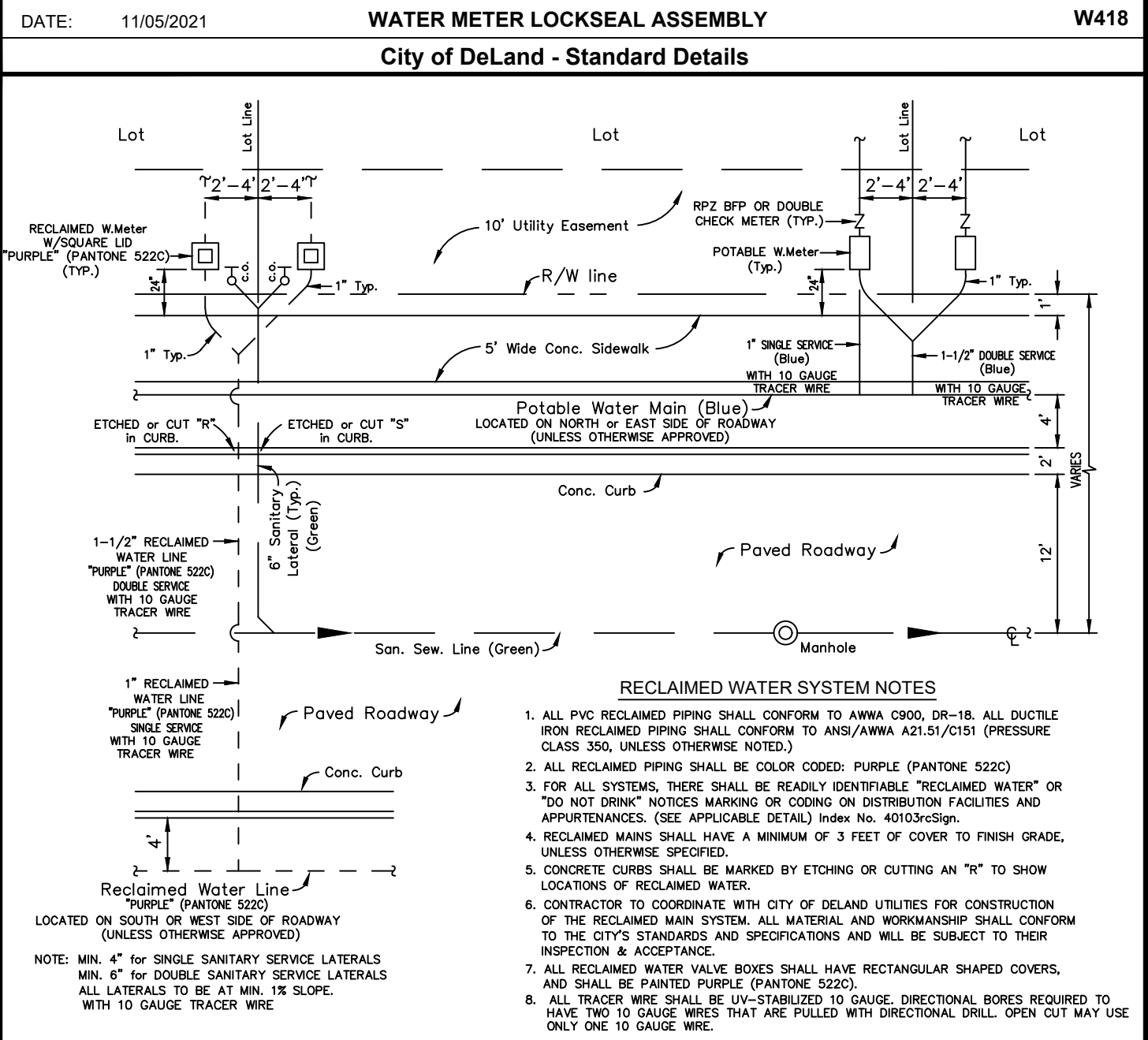
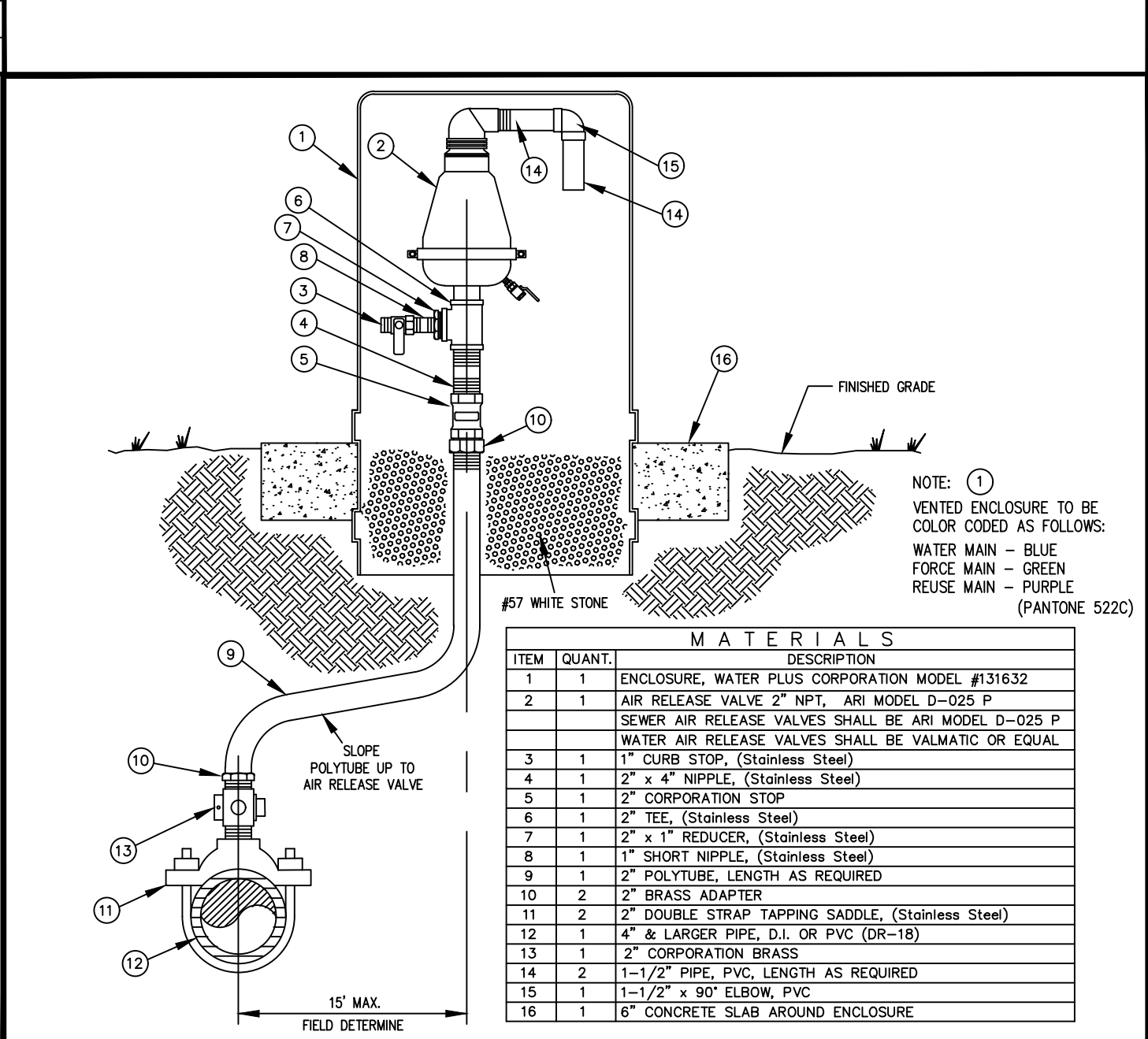


DATE: 11/05/2021 **WATER METER LOCKSEAL ASSEMBLY** **W418**  
**City of DeLand - Standard Details**



| LOCATION OF PUBLIC WATER SYSTEM MAINS IN ACCORDANCE WITH F.A.C. RULE 62-555.314 |                                    |                                                                                                            |                                                |  |
|---------------------------------------------------------------------------------|------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------|--|
| Other pipe                                                                      | Horizontal Separation              | Crossings (1)                                                                                              | Joint Spacing @ Crossing (Full Joint Centered) |  |
| Storm Sewer                                                                     | 3 ft. minimum                      | 12 inches is the minimum except for storm sewer, then 6 inches is the minimum and 12 inches is preferred   | Alternate 3' ft. minimum                       |  |
| Vacuum Sanitary Sewer                                                           | 10 ft. preferred 3 ft. minimum     | 12 inches preferred 6 inches minimum                                                                       | Alternate 3' ft. minimum                       |  |
| Gravity Sewer                                                                   | 10 ft. preferred 6 ft. minimum (3) | 12 inches is the minimum except for gravity sewer, then 6 inches is the minimum and 12 inches is preferred | Alternate 6' ft. minimum                       |  |
| On-Site Sewage Treatment & Disposal System(4)                                   | 10 ft minimum                      | ---                                                                                                        | ---                                            |  |

(1) Water Main Should Cross Above other pipe. When Water Main Must Be Below Other Pipe, the Minimum Separation is 12" inches.  
(2) Reclaimed Water Regulated Under Part III of chapter 62-610, F.A.C.  
(3) 3 ft. for Gravity Sanitary sewer where the Bottom of the Water Main is laid at least 6 inches above the top of gravity sanitary sewer.  
(4) Reclaimed water not regulated under Part III of Chapter 62-160, F.A.C.

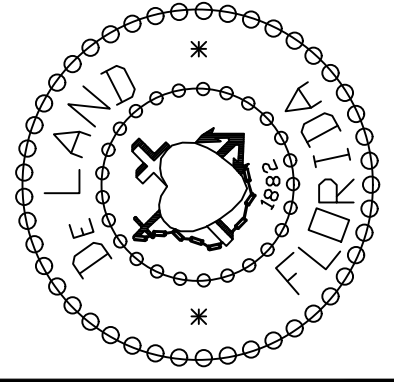


DATE: 11/05/2021 **WATER SAMPLE STATION** **W419**  
**City of DeLand - Standard Details**

DATE: 11/05/2021 **WATER PIPE SEPERATION REQUIREMENTS** **W420**  
**City of DeLand - Standard Details**

DATE: 11/05/2021 **OFFSET AIR RELEASE VALVE** **W421**  
**City of DeLand - Standard Details**

DATE: 11/05/2021 **RESIDENTIAL UTILITY LAYOUT** **W422**  
**City of DeLand - Standard Details**



**CITY OF DELAND, FLORIDA**  
1102 S. GARFIELD AVENUE, DELAND, FLORIDA 32724

TITLE: **WATER SYSTEM DETAILS (Sheet 2)**

drive letter/details locations

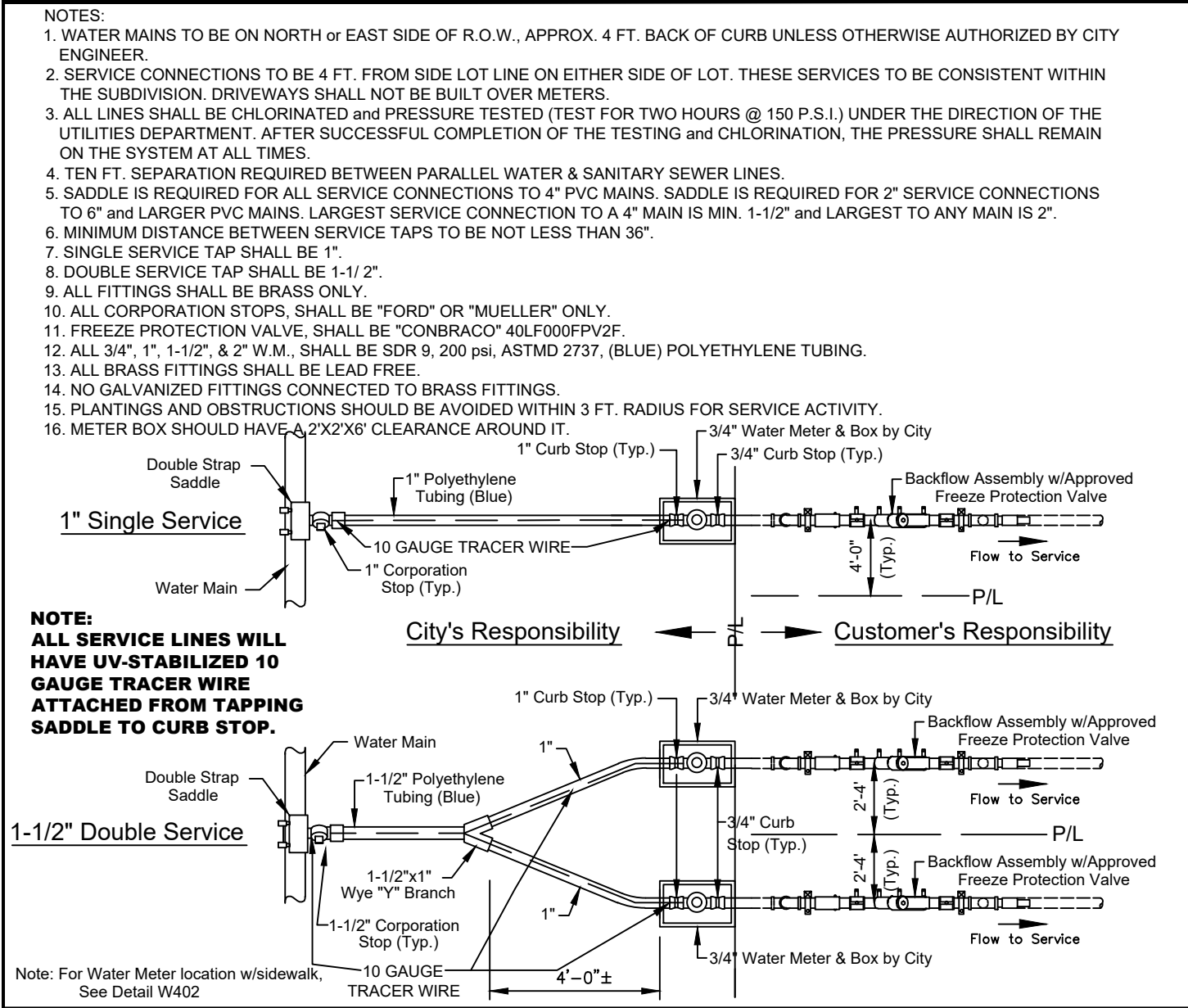
FILE: \_\_\_\_\_

DATE: 11/05/2021  
CHECKED BY: NAME  
SCALE: NOT TO SCALE  
DRAWN BY: ERIC SAMPSON

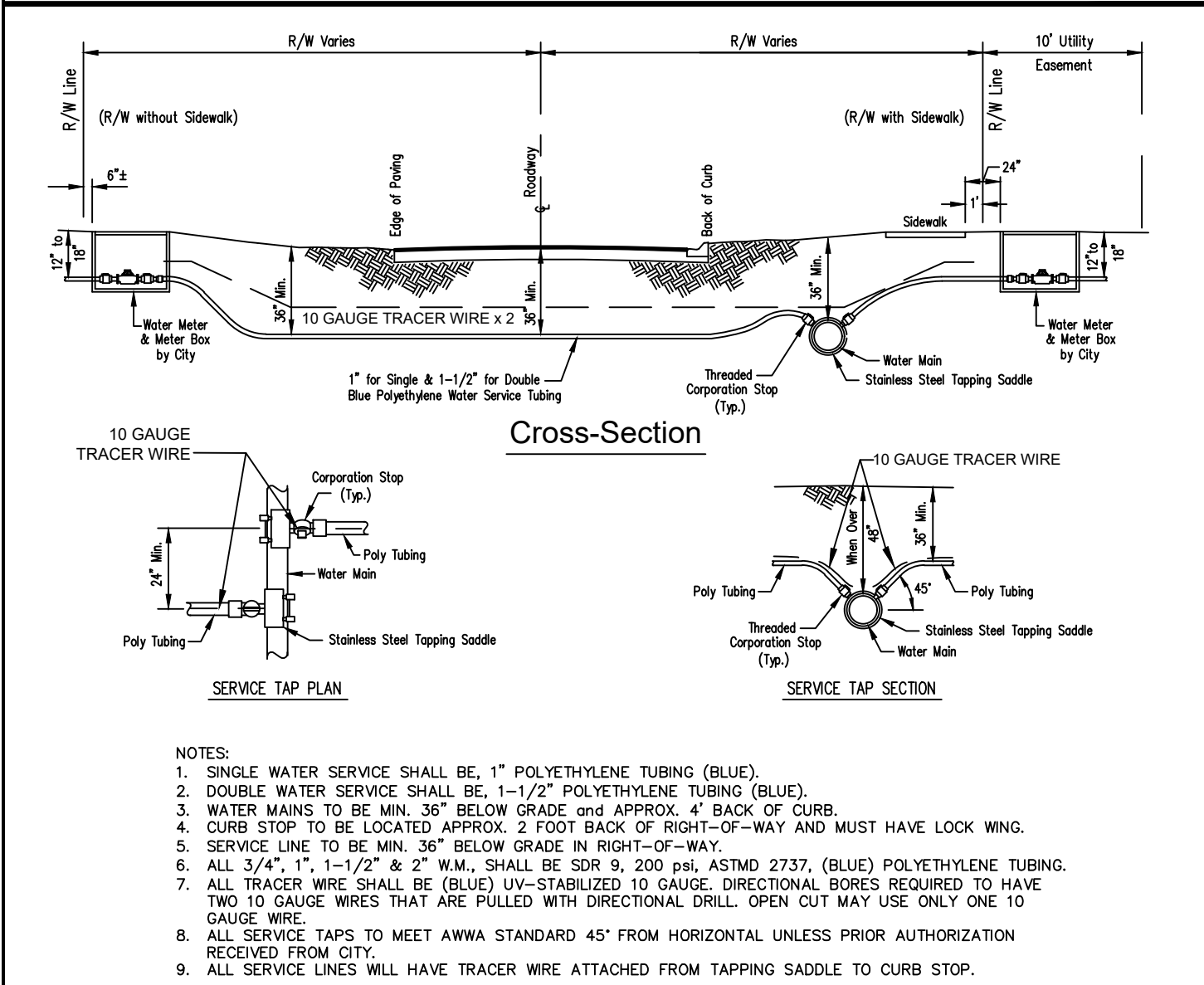




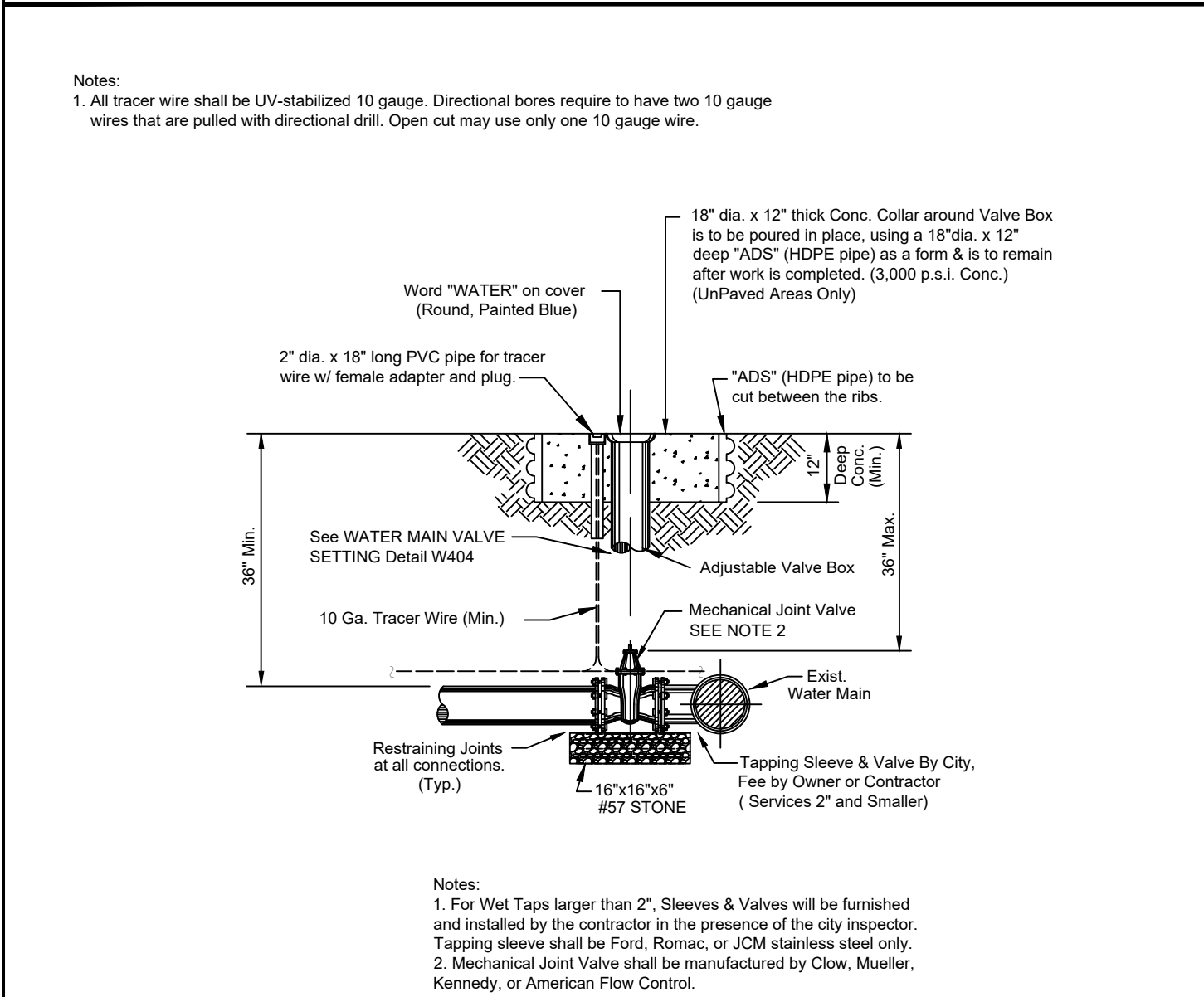




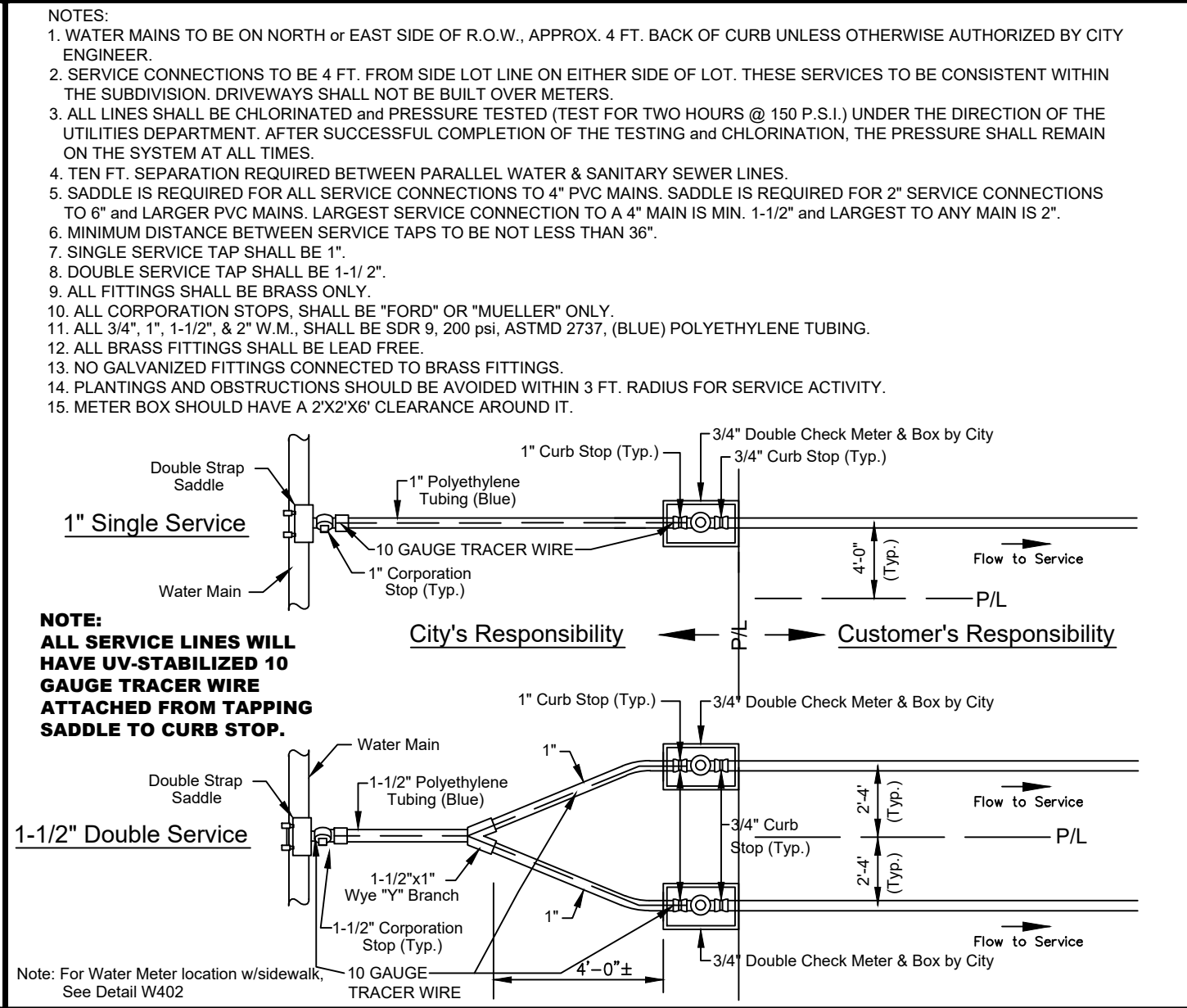
DATE: 11/05/2021 **WATER MAIN SERVICE CONNECTION (BACKFLOW)** **W401**  
City of DeLand - Standard Details



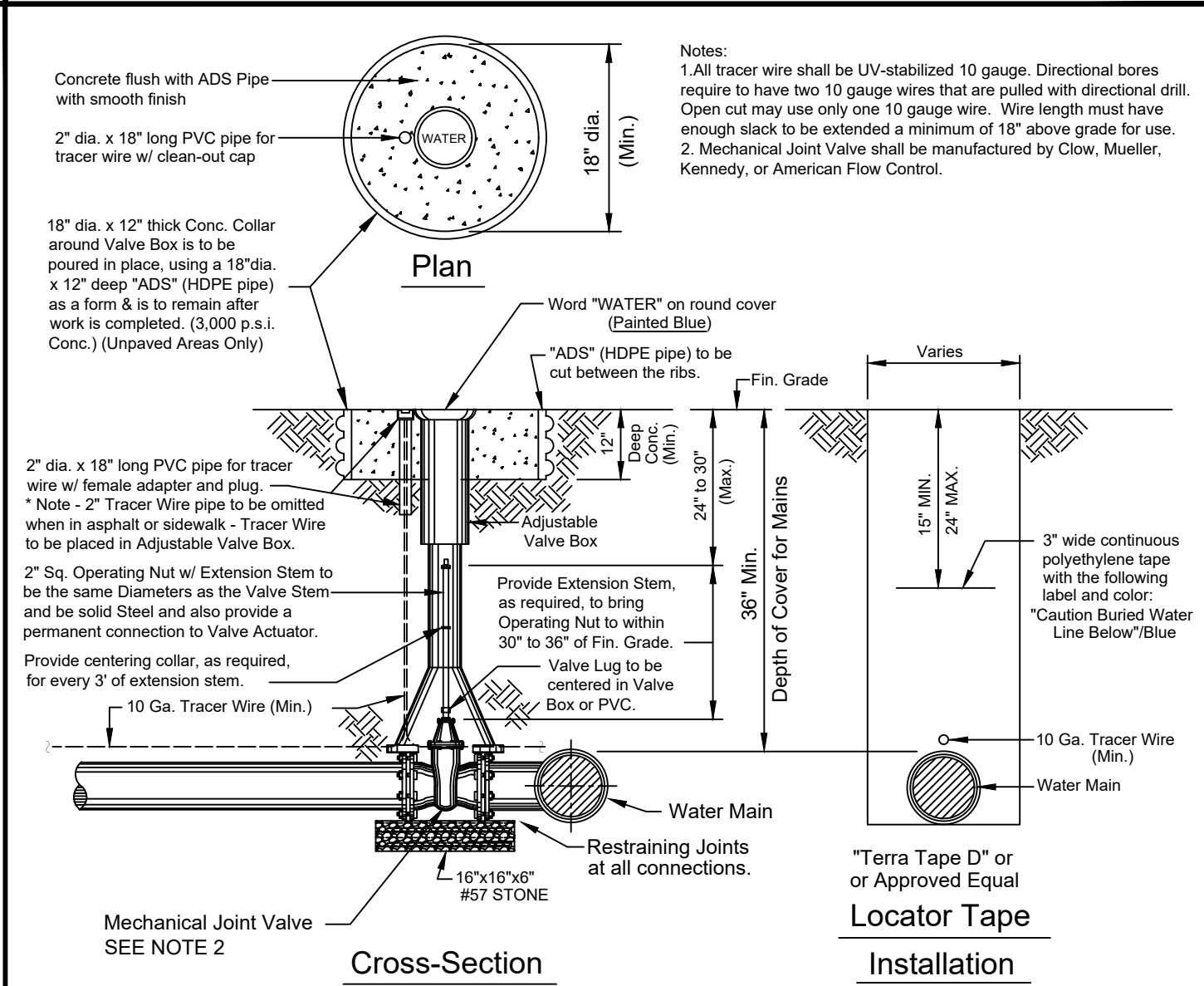
DATE: 11/05/2021 **WATER MAIN SERVICE LINES** **W403**  
City of DeLand - Standard Details



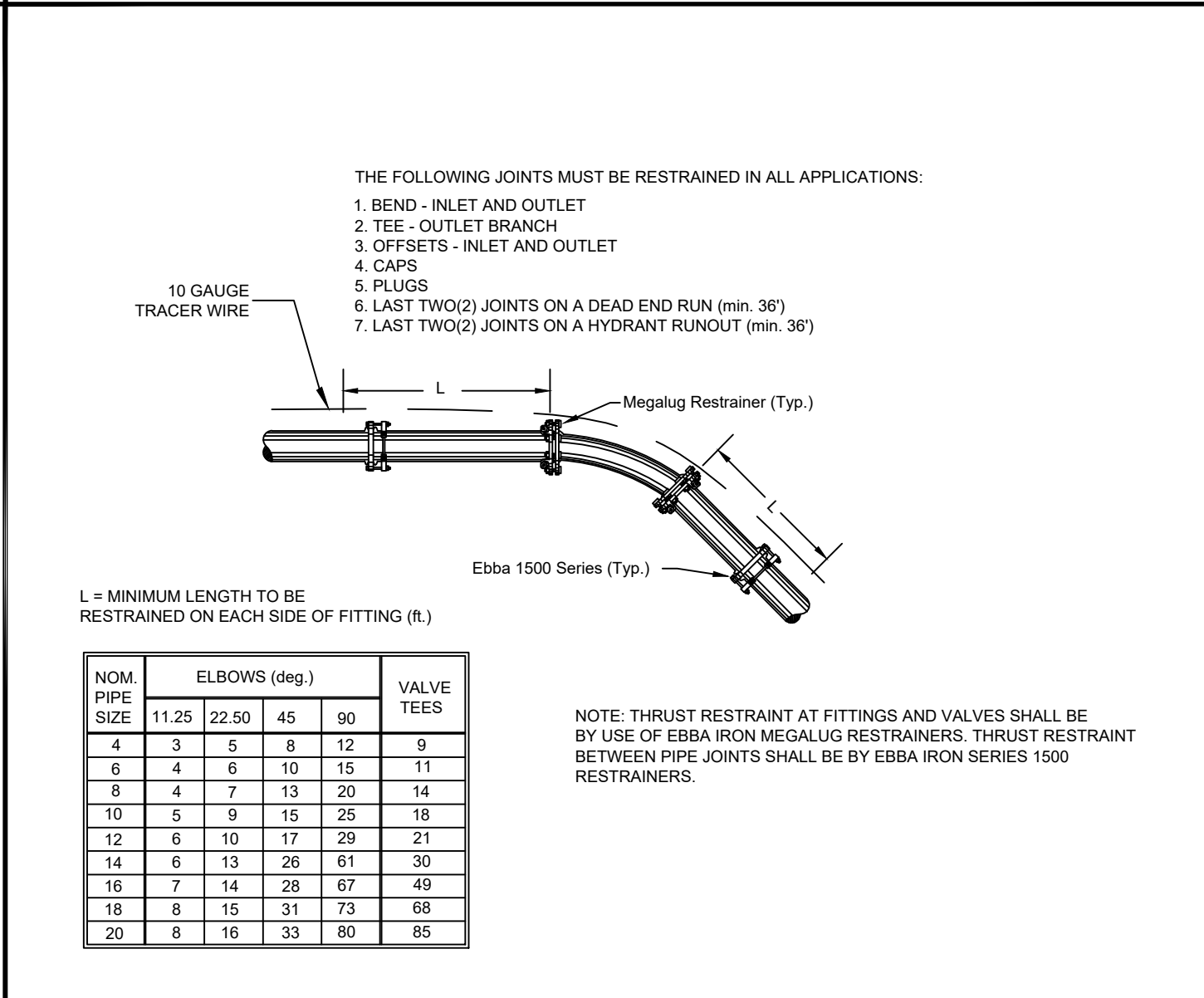
DATE: 11/05/2021 **TAPPING SLEEVE & VALVE** **W407**  
City of DeLand - Standard Details



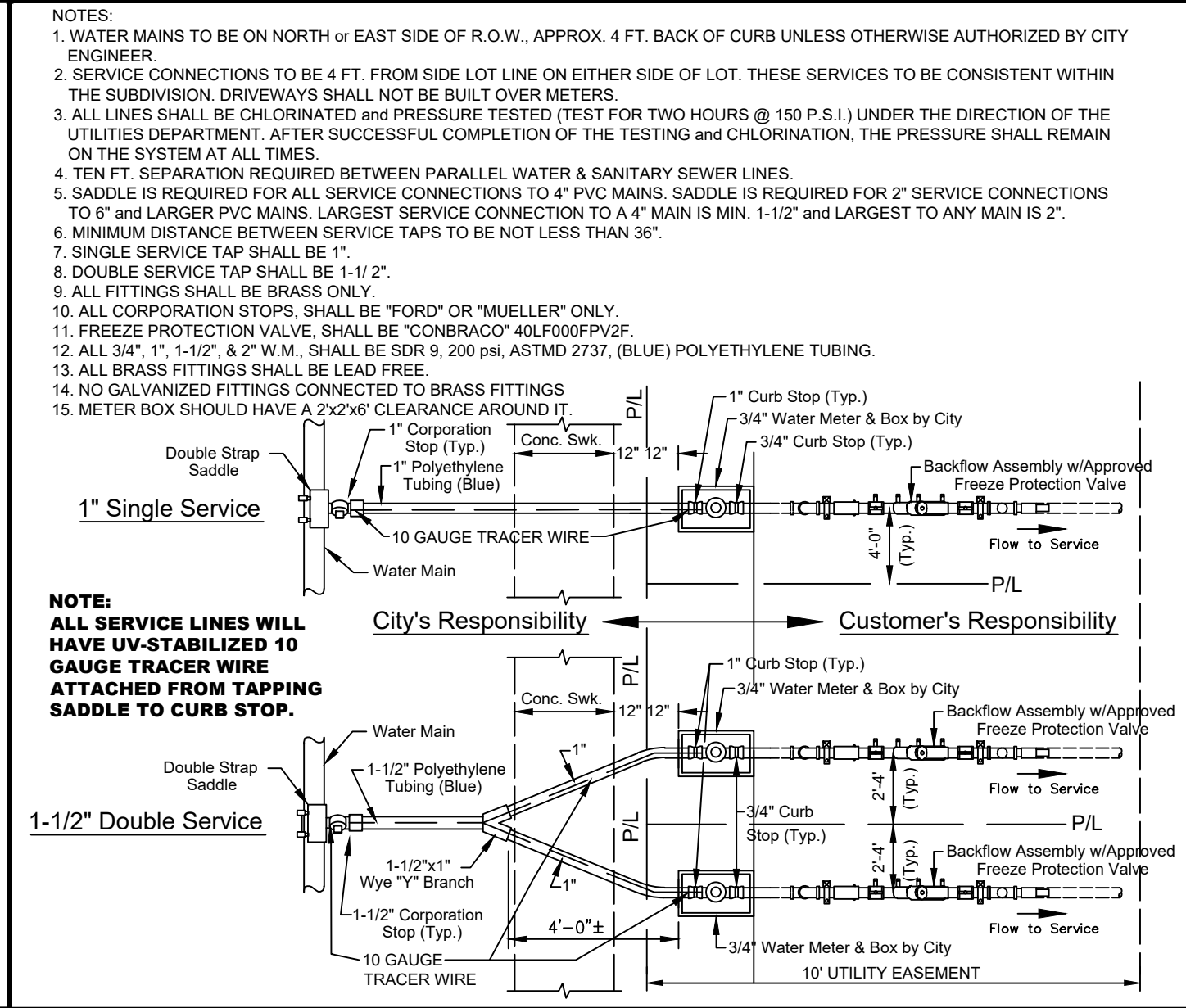
DATE: 11/05/2021 **WATER MAIN SERVICE CONNECTION (DOUBLE CHECK METER)** **W401A**  
City of DeLand - Standard Details



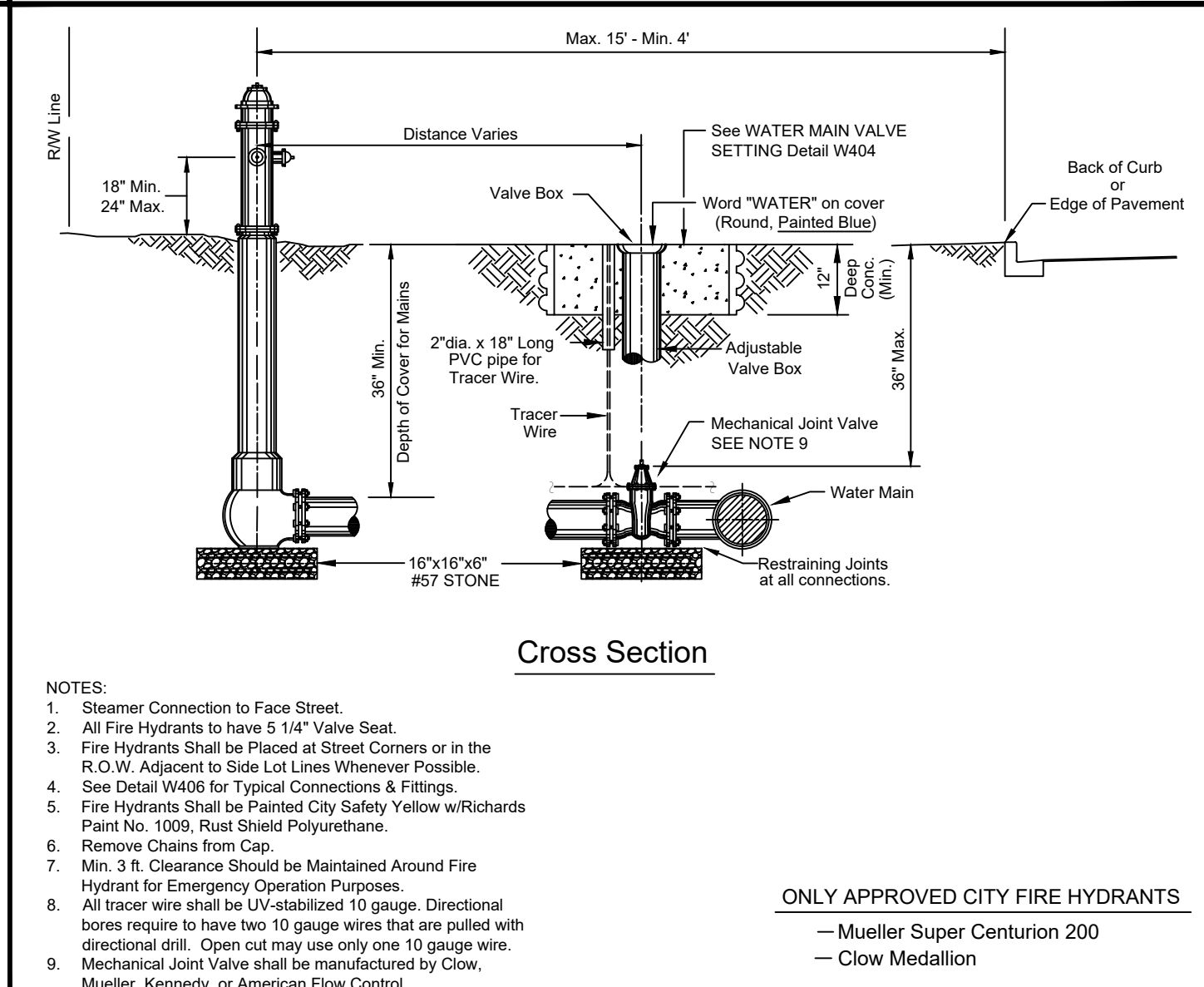
DATE: 11/05/2021 **WATER MAIN VALVE SETTING** **W404**  
City of DeLand - Standard Details



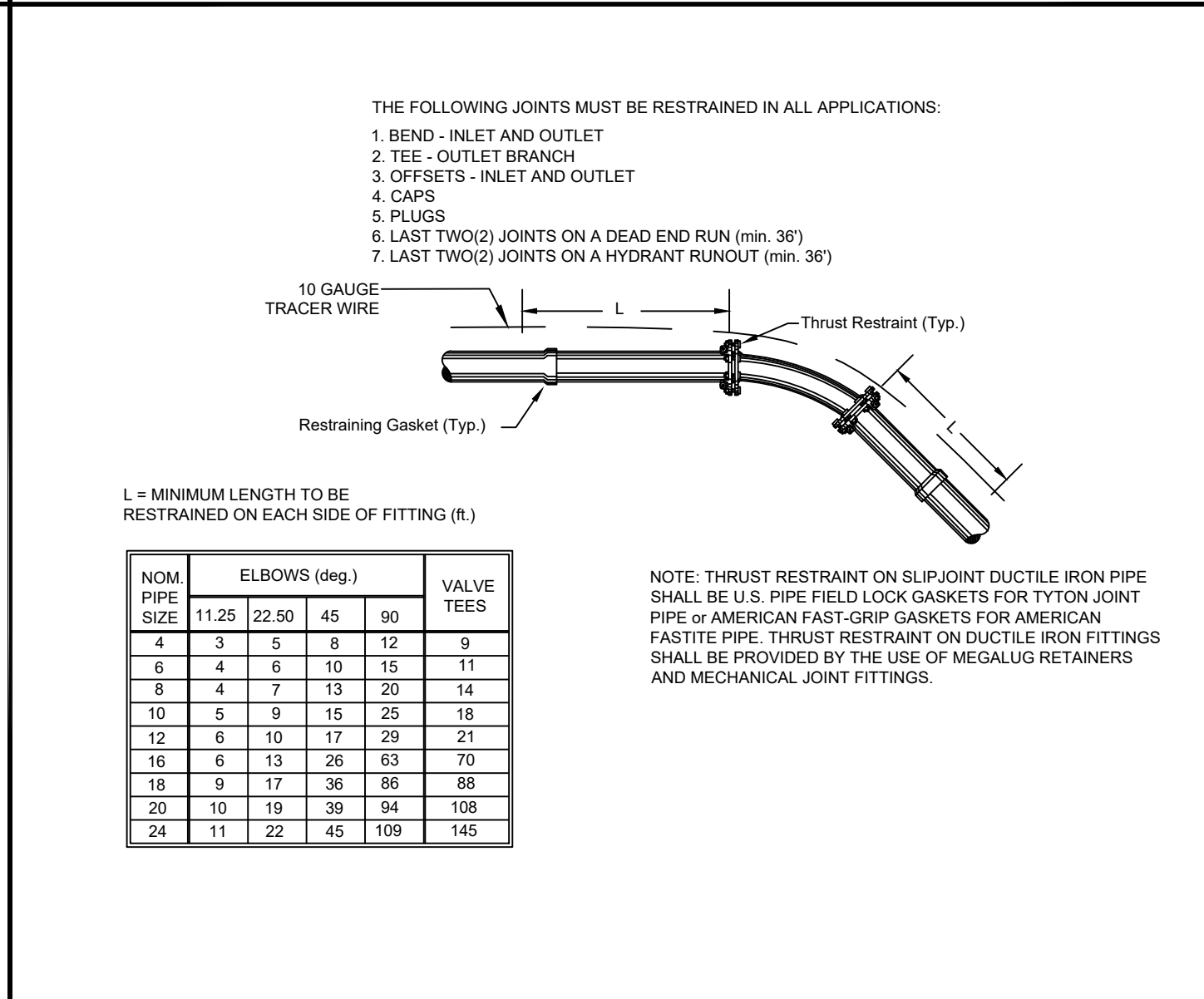
DATE: 11/05/2021 **THRUST RESTRAINING DETAIL FOR PVC PIPE** **W408**  
City of DeLand - Standard Details



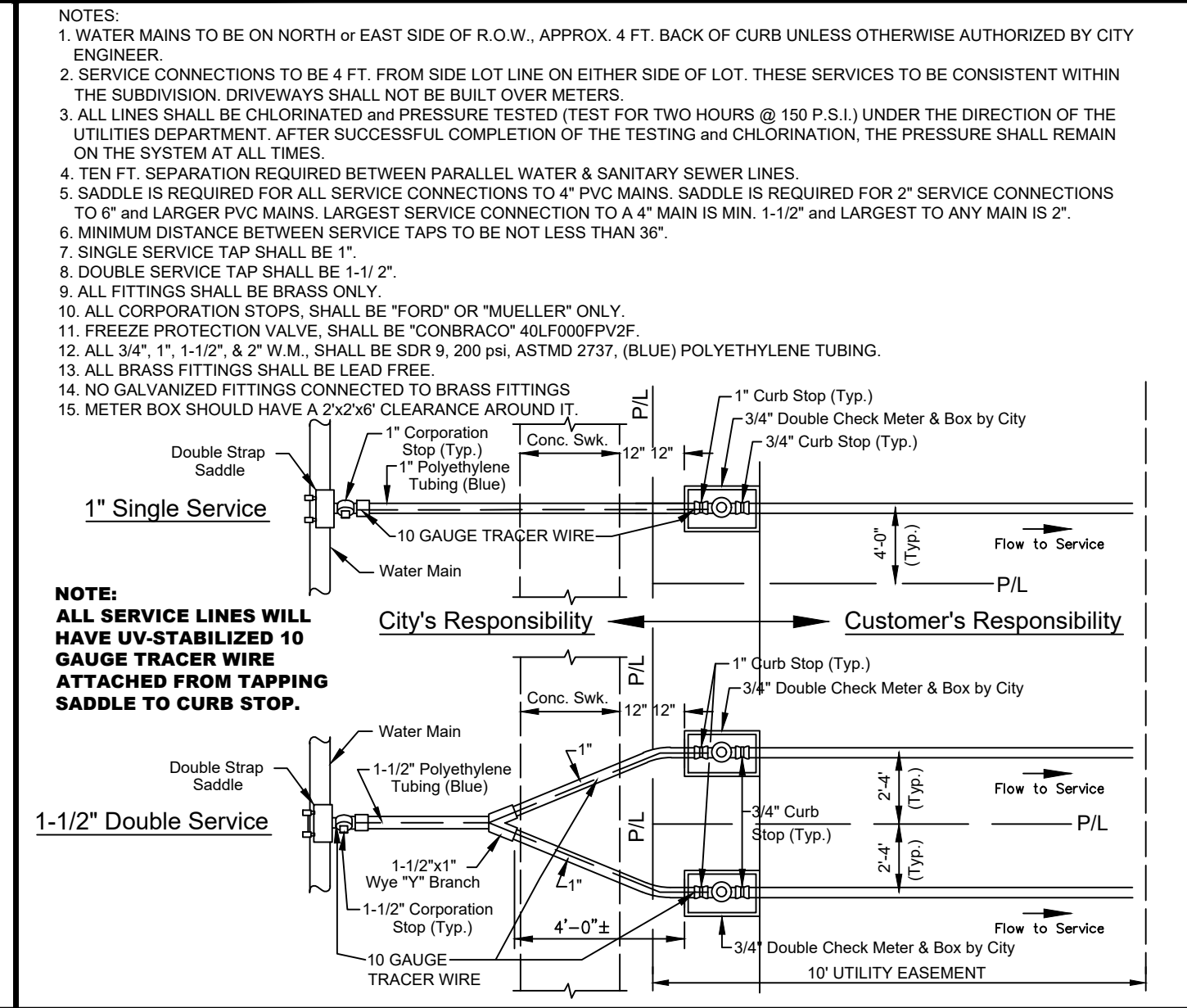
DATE: 11/05/2021 **WATER MAIN SERVICE CONNECTION WITH SIDEWALK (BACKFLOW)** **W402**  
City of DeLand - Standard Details



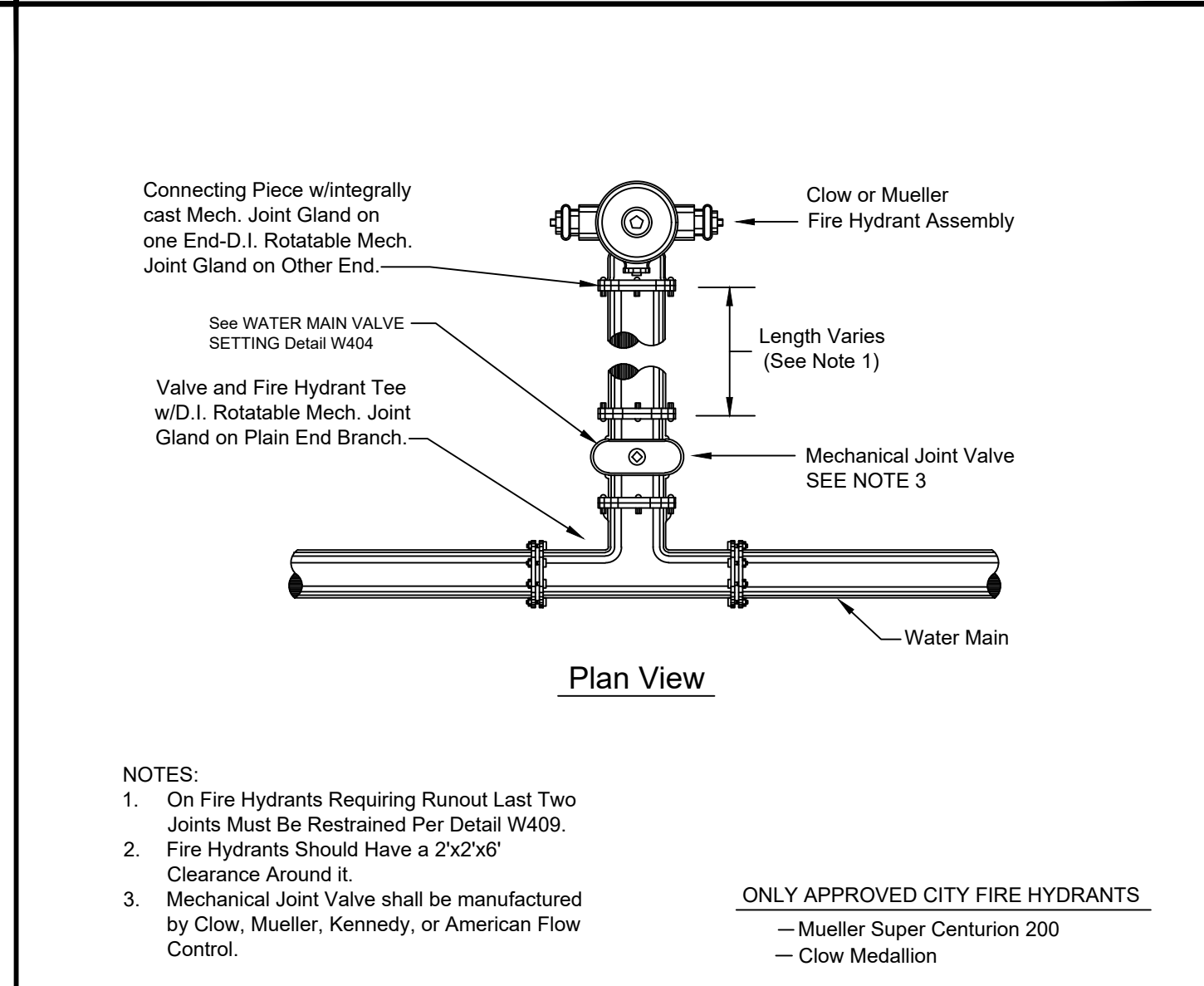
DATE: 11/05/2021 **FIRE HYDRANT SETTING SECTION** **W405**  
City of DeLand - Standard Details



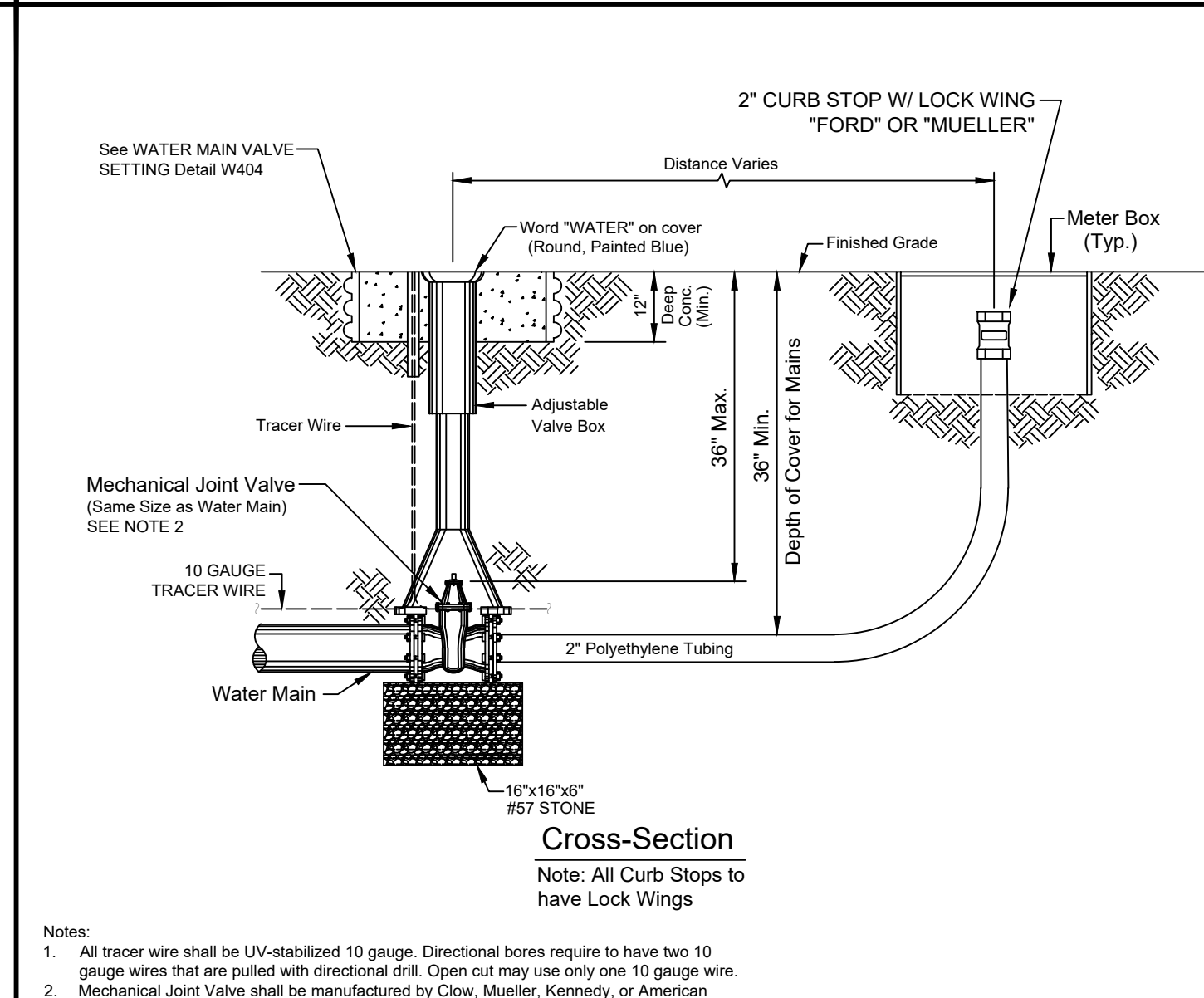
DATE: 11/05/2021 **THRUST RESTRAINING DETAIL FOR DUCTILE IRON PIPE** **W409**  
City of DeLand - Standard Details



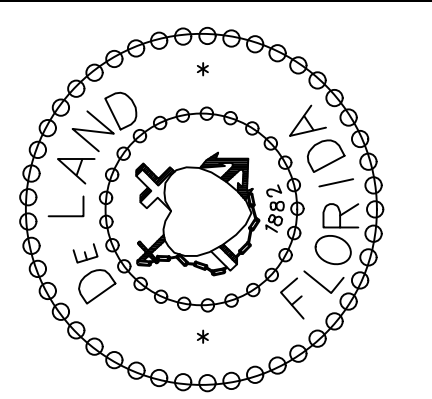
DATE: 11/05/2021 **WATER MAIN SERVICE CONN. WITH SIDEWALK (DBL. CHECK METER)** **W402A**  
City of DeLand - Standard Details



DATE: 11/05/2021 **FIRE HYDRANT SETTING PLAN** **W406**  
City of DeLand - Standard Details



DATE: 11/05/2021 **WATER MAIN BLOWOFF DETAIL** **W410**  
City of DeLand - Standard Details



CITY OF DELAND, FLORIDA  
1102 S. GARFIELD AVENUE, DELAND, FLORIDA 32724

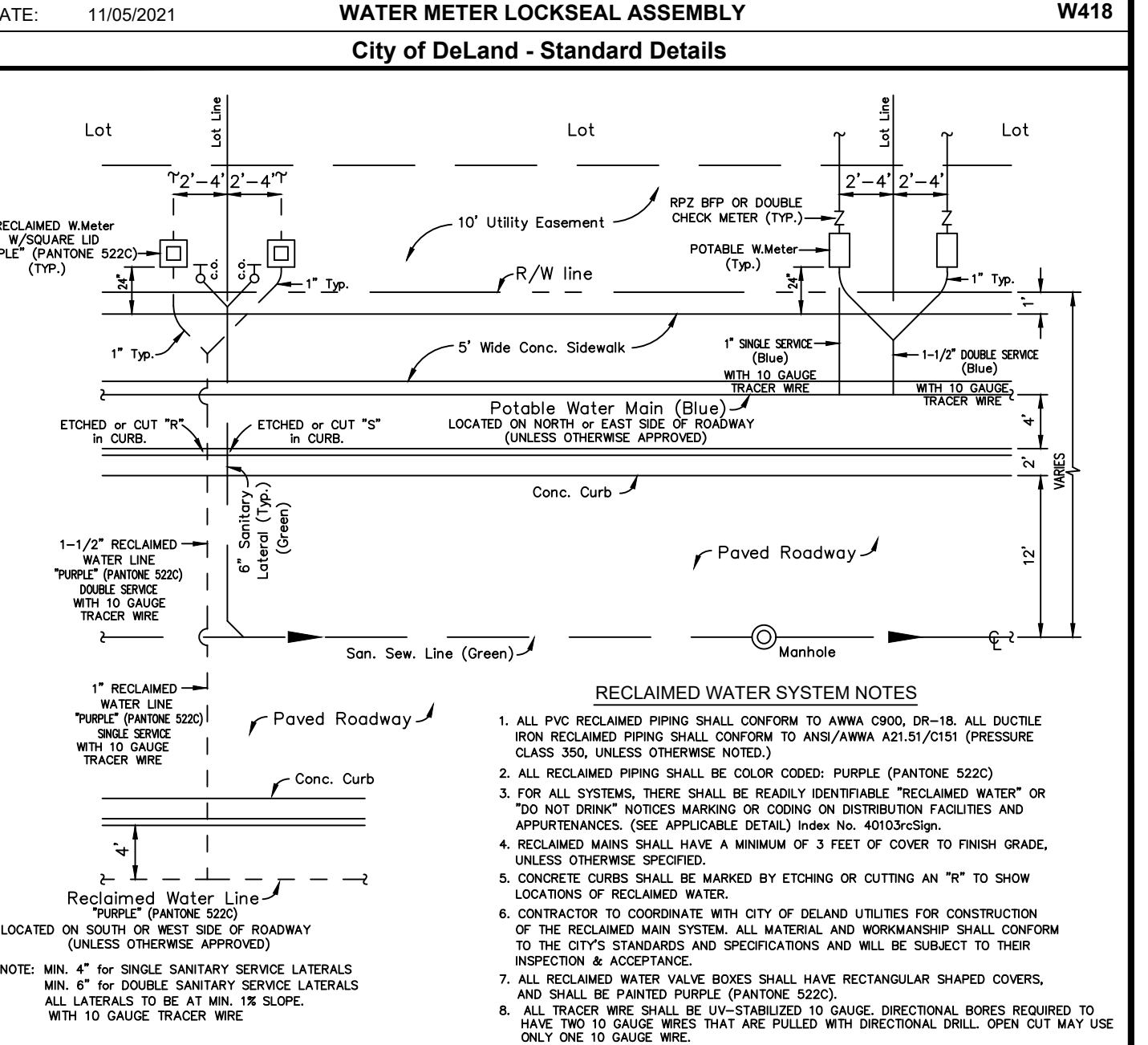
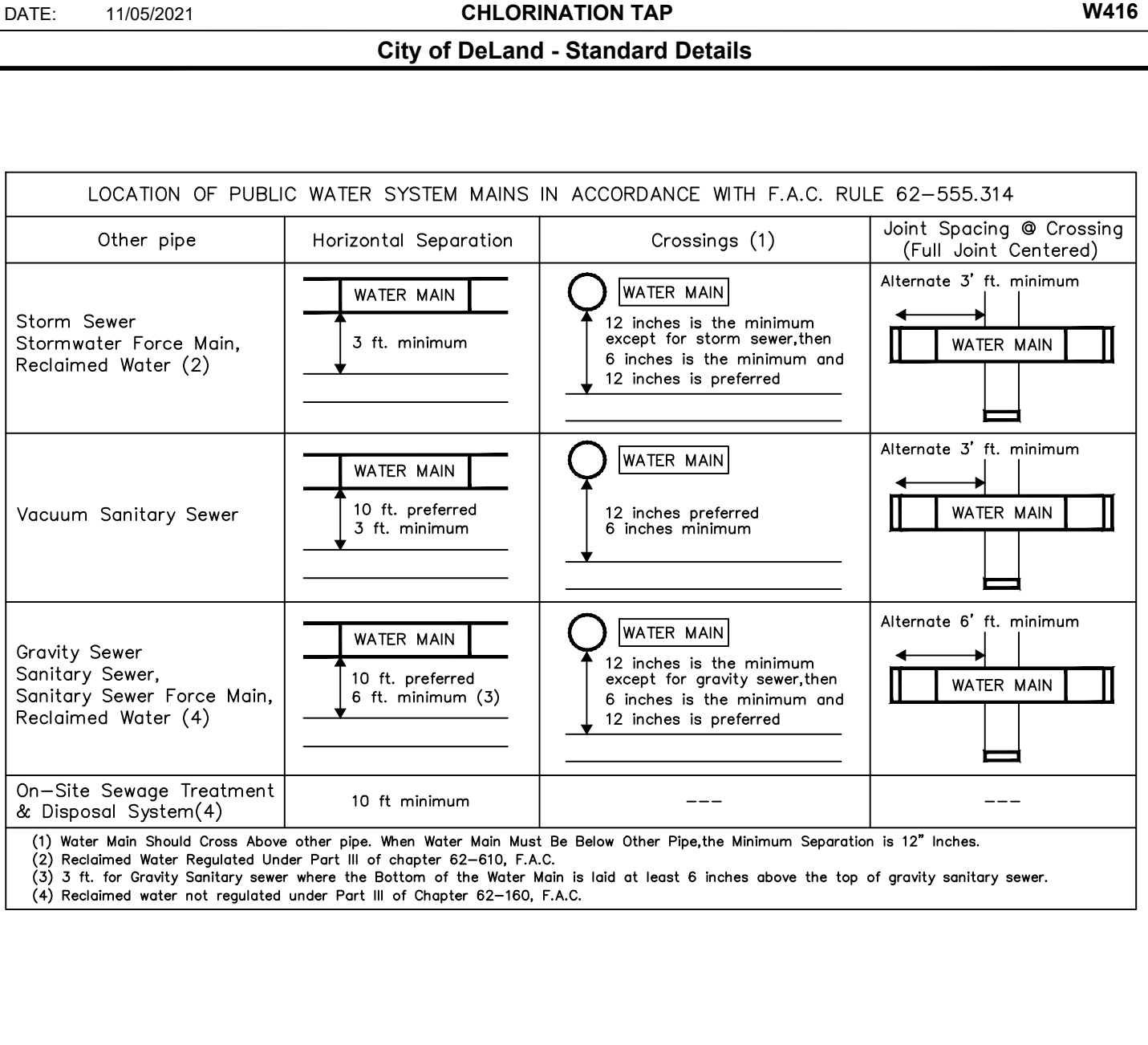
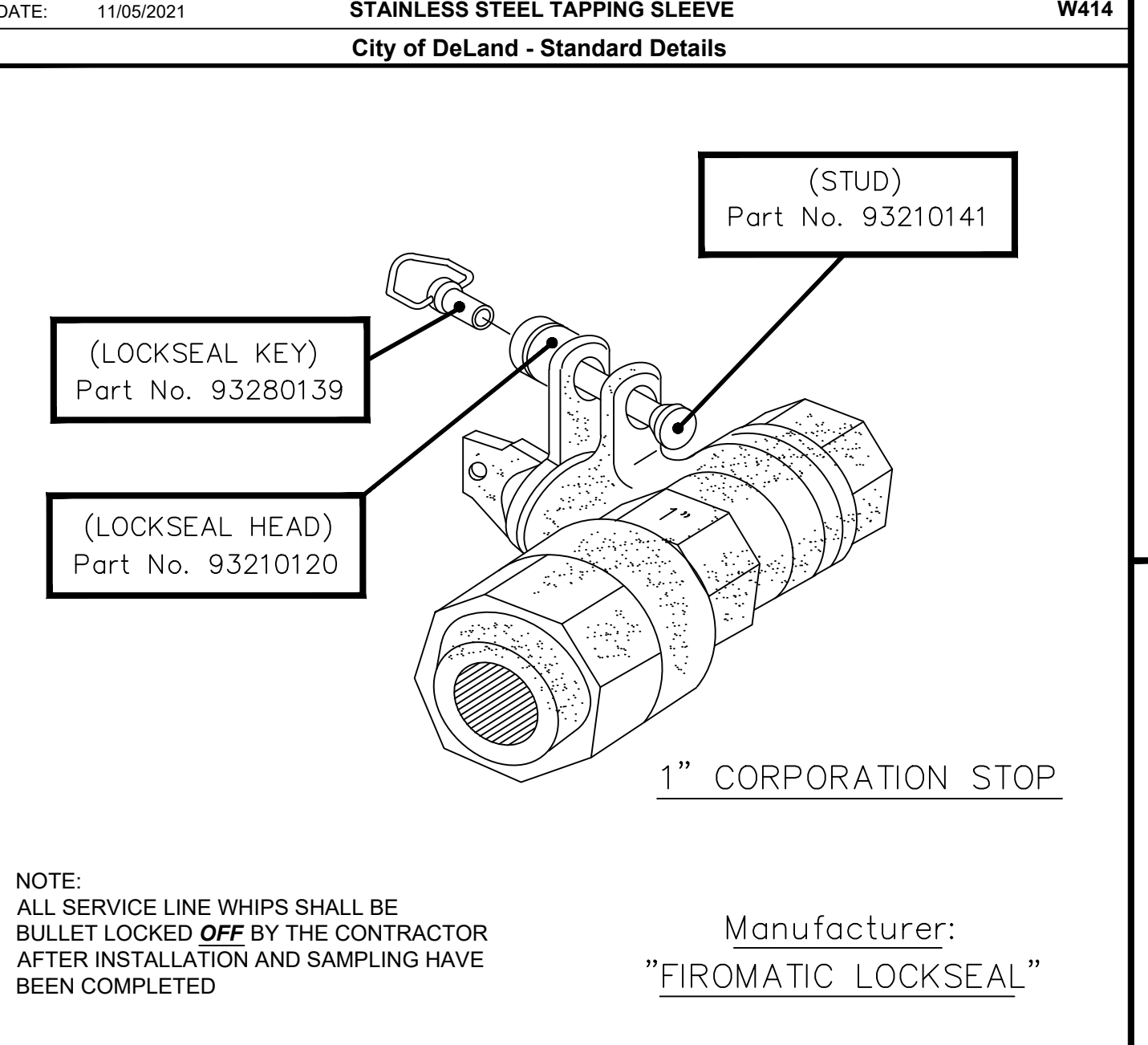
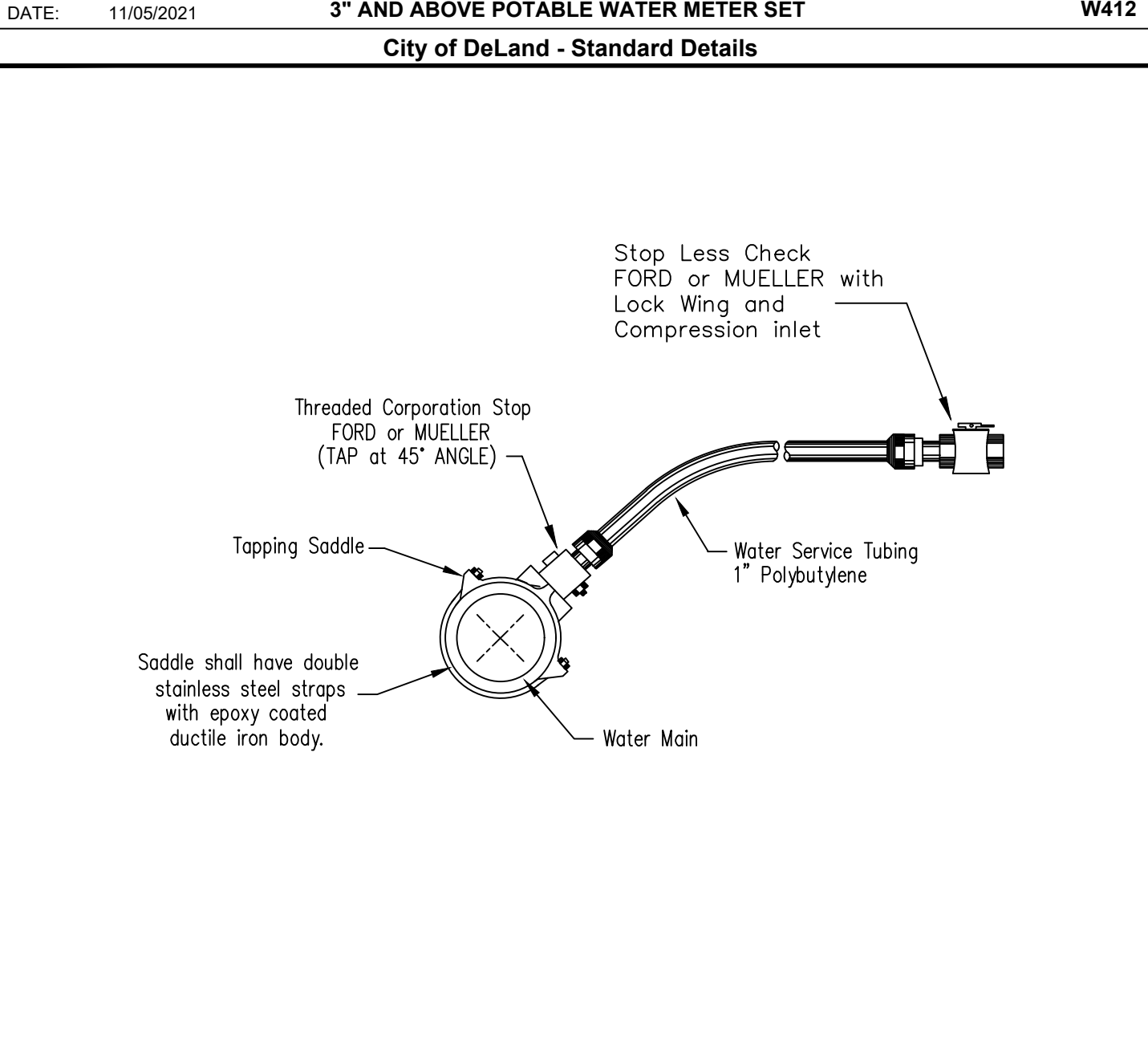
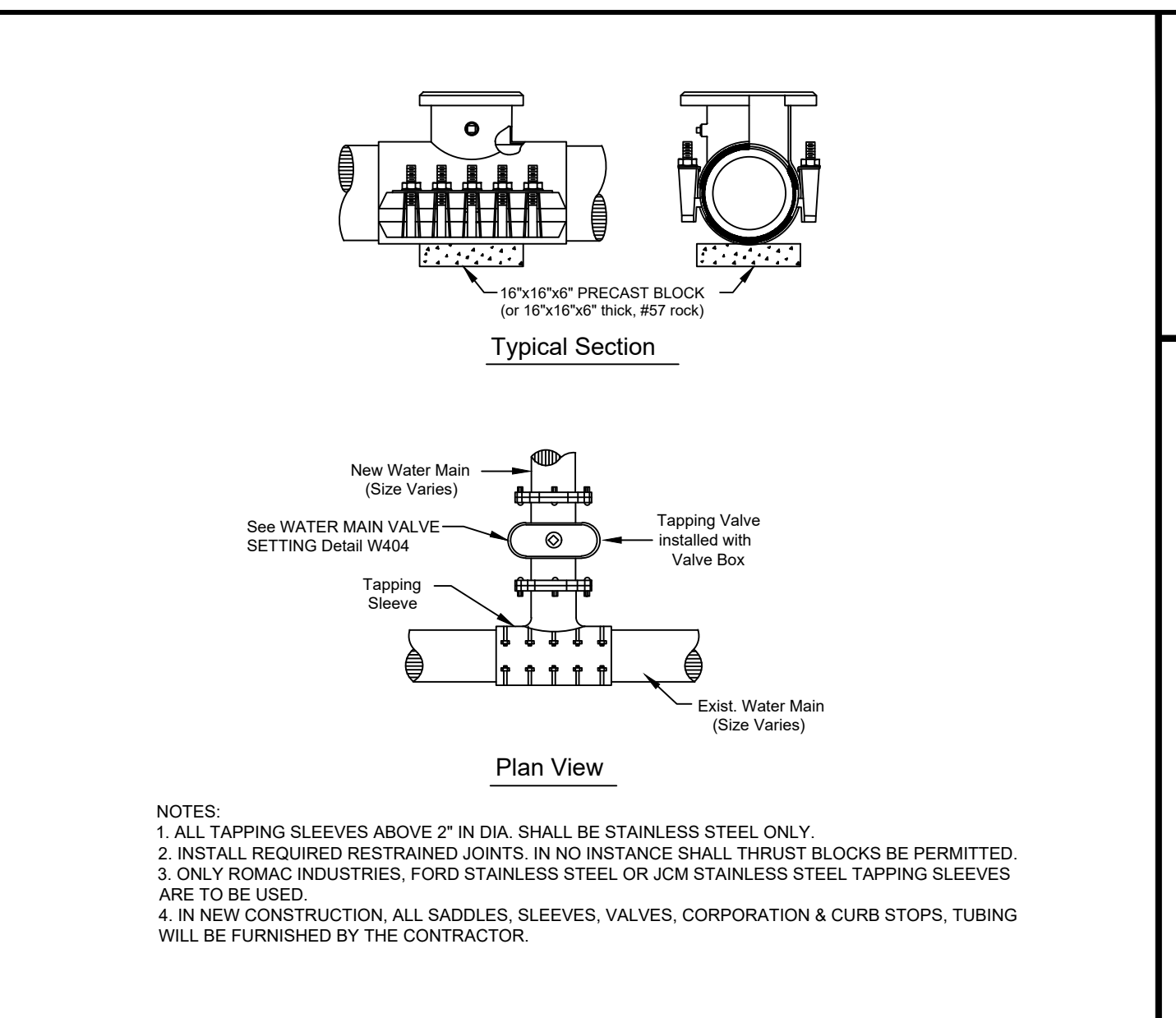
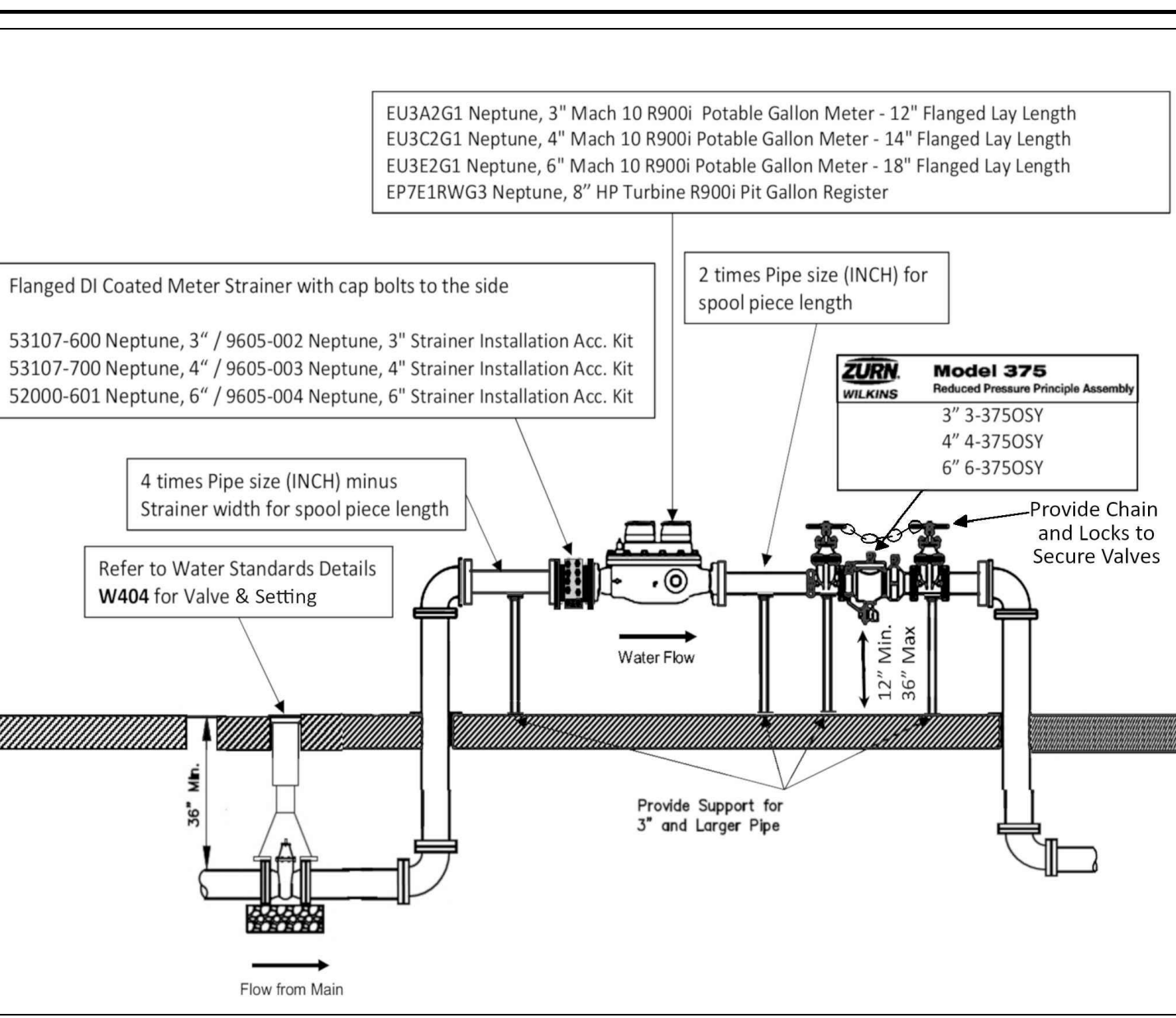
TITLE: **WATER SYSTEM DETAILS (Sheet 1)**

DATE: 11/05/2021  
CHECKED BY: NAME

NOT TO SCALE  
ERIC SAMPSON

FILE: drive letter/details locations





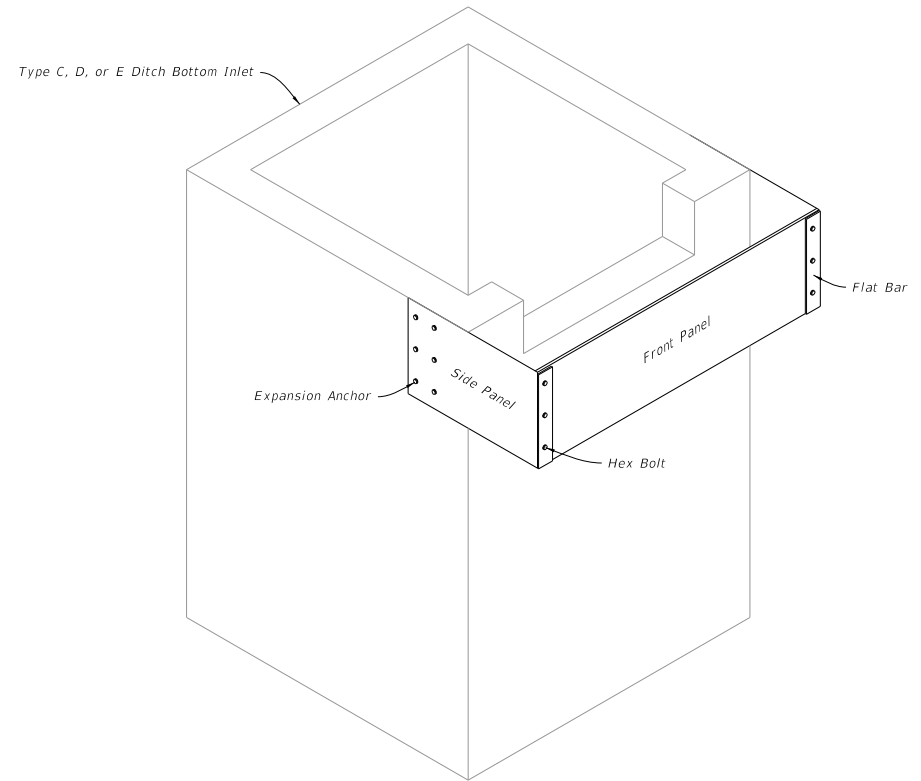


10/6/2022 1:51:29 PM

**GENERAL NOTES:**

1. The side panels are dimensionally symmetric, and may be used on either side of the structure.
2. Two (2) skimmers may be installed on a single structure provided they are constructed on opposite ends.
3. The width of the front panel (dimension W) is equal to the same as the outside dimension across the front of the structure.
4. Hot dip galvanize the front panel, side panels, and flat bars after fabrication.
5. The location of the reinforcing steel in these structures must conform to the Index 425-052 to avoid conflict with the expansion anchors used to attach the skimmer.
6. Use grates on the inlets unless otherwise specified in the Plans.
7. A skimmer consists of two (2) side panels, one front panel, two (2) flat bars, and accessory hardware.

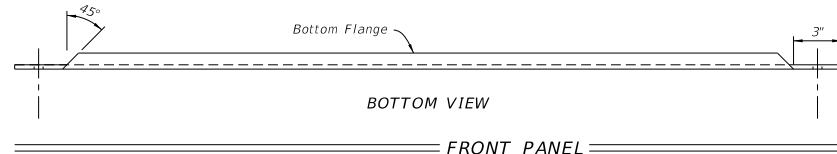
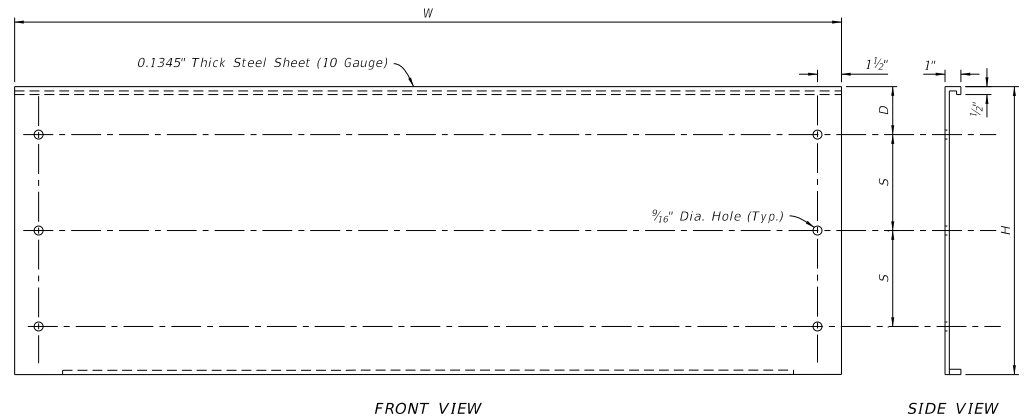
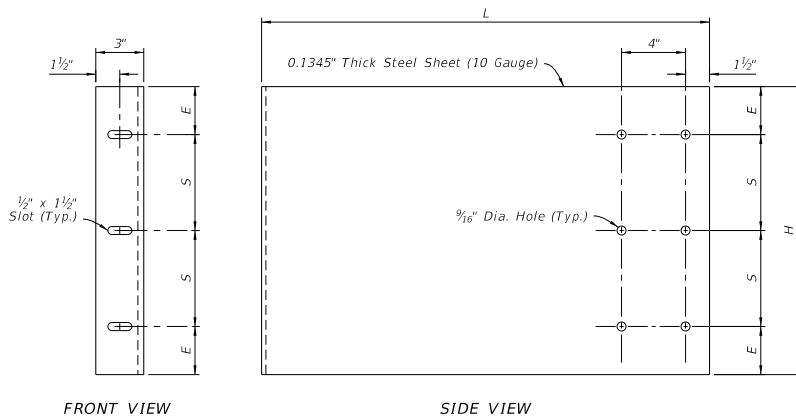
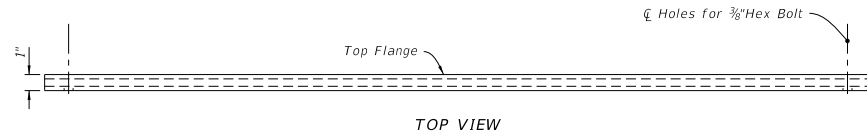
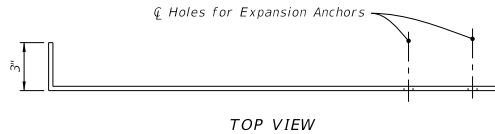
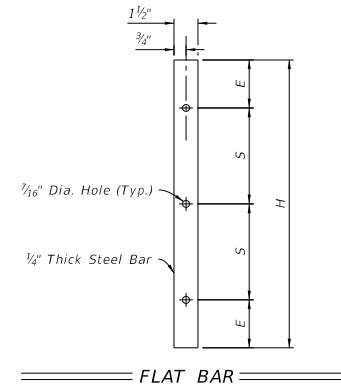
| TABLE OF CONTENTS: |                            |
|--------------------|----------------------------|
| Sheet              | Description                |
| 1                  | General Notes and Contents |
| 2                  | Panel and Flat Bar Details |
| 3                  | Installation Details       |



===== SKIMMER =====

|                              |          |              |                                                                                                                         |                                       |                  |                 |
|------------------------------|----------|--------------|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------|------------------|-----------------|
| LAST<br>REVISION<br>10/01/20 | REVISION | DESCRIPTION: |  <b>FY 2023-24</b><br>STANDARD PLANS | SKIMMER FOR OUTLET CONTROL STRUCTURES | INDEX<br>425-070 | SHEET<br>1 of 3 |
|                              |          |              |                                                                                                                         |                                       |                  |                 |

| DIMENSIONS                                     |                  |         |         |                 |
|------------------------------------------------|------------------|---------|---------|-----------------|
| Skimmer Height<br>as Specified in<br>the Plans |                  |         |         | Bolt<br>Spacing |
| H (in.)                                        | D (in.)          | E (in.) | L (in.) | S (in.)         |
| 12                                             | 3 $\frac{3}{16}$ | 3       | 28      | 3               |
| 14                                             | 3 $\frac{3}{16}$ | 3       | 28      | 4               |
| 16                                             | 3 $\frac{3}{16}$ | 3       | 28      | 5               |
| 18                                             | 3 $\frac{3}{16}$ | 3       | 28      | 6               |
| 20                                             | 4 $\frac{3}{16}$ | 4       | 31      | 6               |
| 22                                             | 4 $\frac{3}{16}$ | 4       | 31      | 7               |
| 24                                             | 4 $\frac{3}{16}$ | 4       | 31      | 8               |
| 26                                             | 4 $\frac{3}{16}$ | 4       | 31      | 9               |
| 28                                             | 4 $\frac{3}{16}$ | 4       | 31      | 10              |
| 30                                             | 5 $\frac{3}{16}$ | 5       | 31      | 10              |
| 32                                             | 5 $\frac{3}{16}$ | 5       | 31      | 11              |
| 34                                             | 5 $\frac{3}{16}$ | 5       | 31      | 12              |
| 36                                             | 6 $\frac{3}{16}$ | 6       | 31      | 12              |
| 38                                             | 6 $\frac{3}{16}$ | 6       | 31      | 13              |
| 40                                             | 6 $\frac{3}{16}$ | 6       | 31      | 14              |

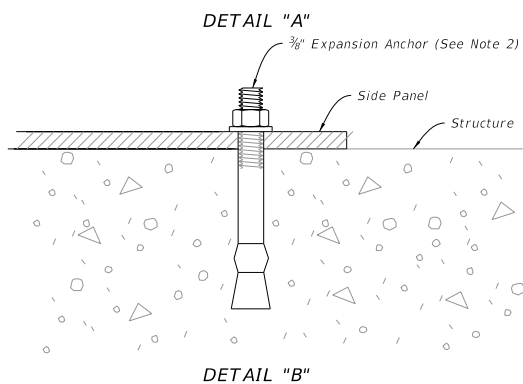
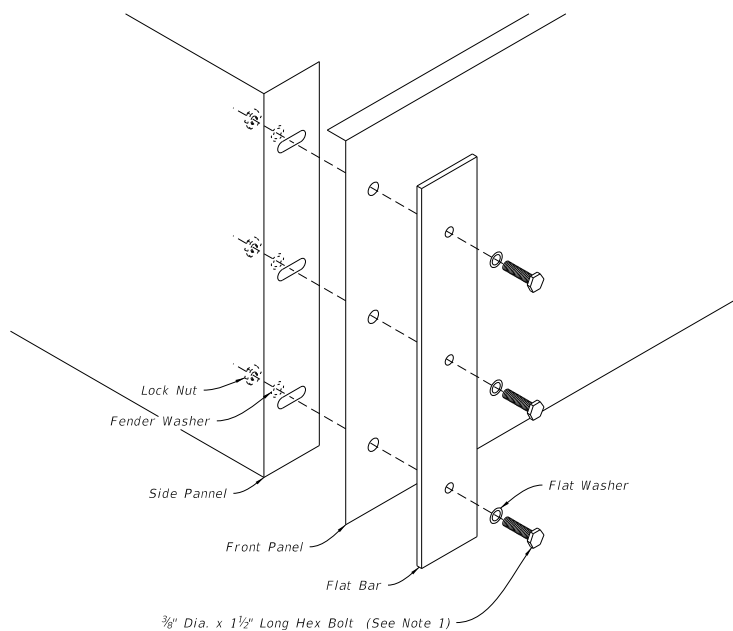


PANEL AND FLAT BAR DETAILS

|                              |              |      |                              |                                       |                  |                 |
|------------------------------|--------------|------|------------------------------|---------------------------------------|------------------|-----------------|
| LAST<br>REVISION<br>10/01/20 | DESCRIPTION: | FDOT | FY 2023-24<br>STANDARD PLANS | SKIMMER FOR OUTLET CONTROL STRUCTURES | INDEX<br>425-070 | SHEET<br>2 of 3 |
|------------------------------|--------------|------|------------------------------|---------------------------------------|------------------|-----------------|

10/16/2022 1:51:30 PM

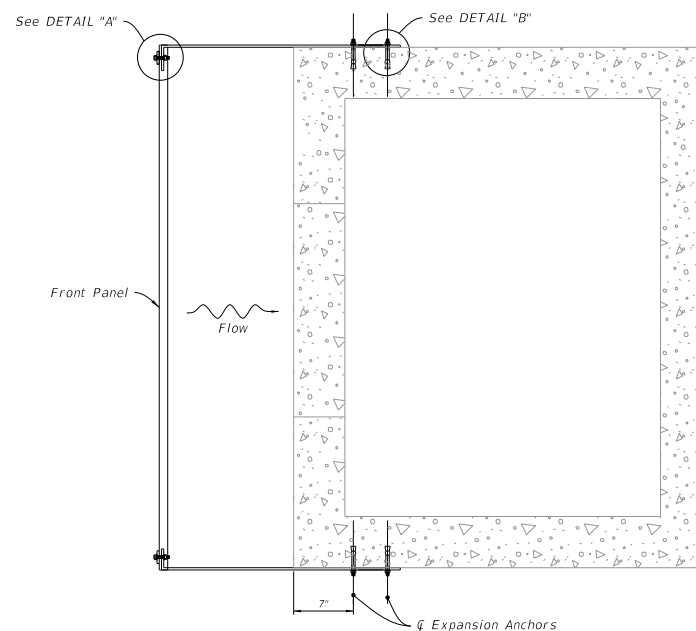




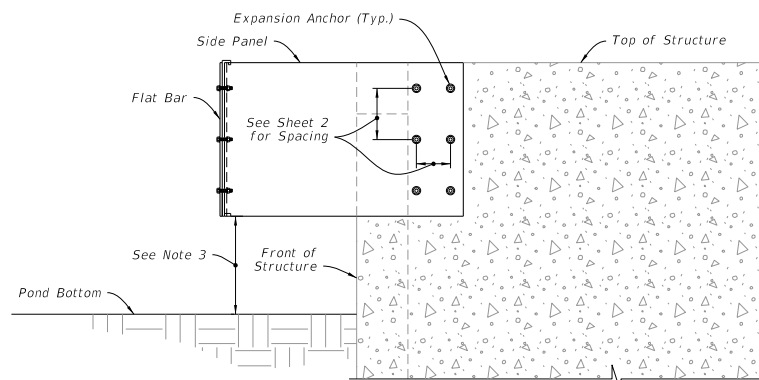
DETAIL "B"

**NOTES:**

1. Hex Bolt, Flat Washer, Fender Washer, And Lock Nut, all Stainless Steel. (6 Required Per Skimmer)
2. Install a stainless steel stud type expansion anchor with nut and washer. Embedment depth =  $2\frac{1}{2}$ ". Anchors to be installed according to the manufacturer's recommendations (12 required per skimmer).
3. Install the skimmer so that the distance between the pond bottom at the structure and the skimmer is not less than 1 foot.



PLAN

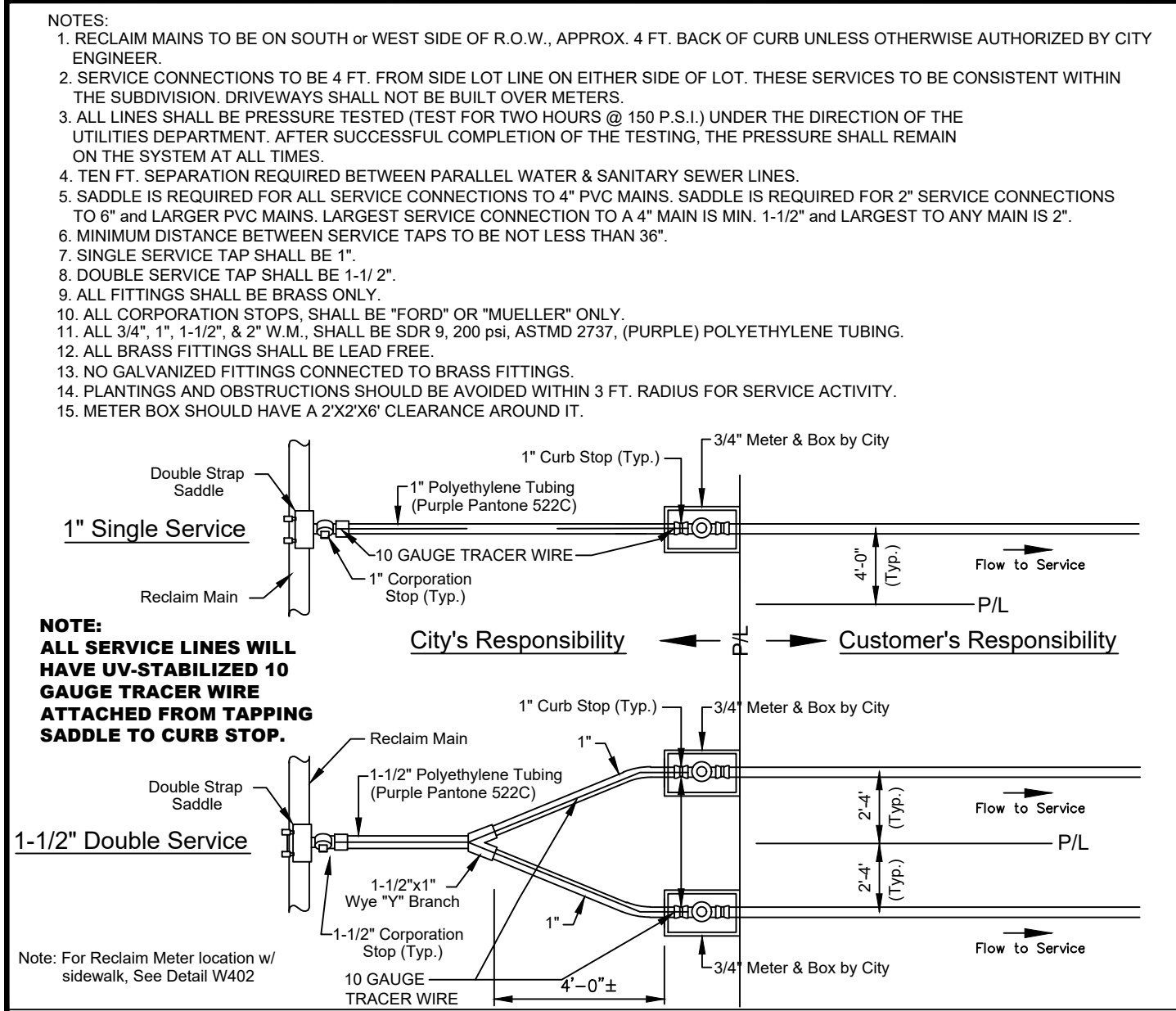


SIDE ELEVATION

**INSTALLATION DETAILS**

|                                       |                     |                                                  |                                                     |                          |                         |
|---------------------------------------|---------------------|--------------------------------------------------|-----------------------------------------------------|--------------------------|-------------------------|
| <p>LAST<br/>REVISION<br/>10/01/20</p> | <p>DESCRIPTION:</p> | <p><b>FDOT</b> FY 2023-24<br/>STANDARD PLANS</p> | <p><b>SKIMMER FOR OUTLET CONTROL STRUCTURES</b></p> | <p>INDEX<br/>425-070</p> | <p>SHEET<br/>3 of 3</p> |
|---------------------------------------|---------------------|--------------------------------------------------|-----------------------------------------------------|--------------------------|-------------------------|

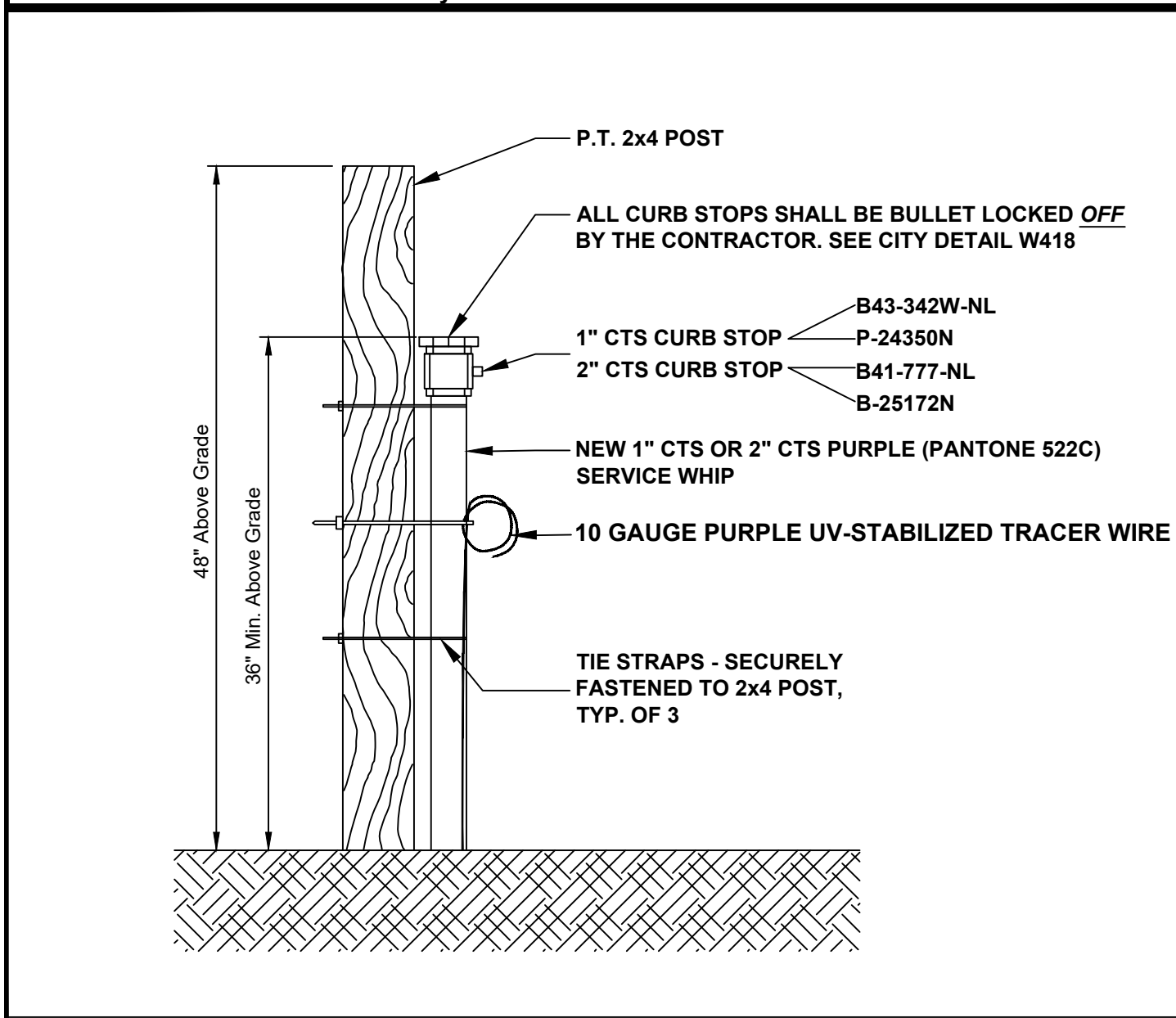




DATE: 11/05/2021

**RECLAIM MAIN SERVICE CONNECTION** **R401**

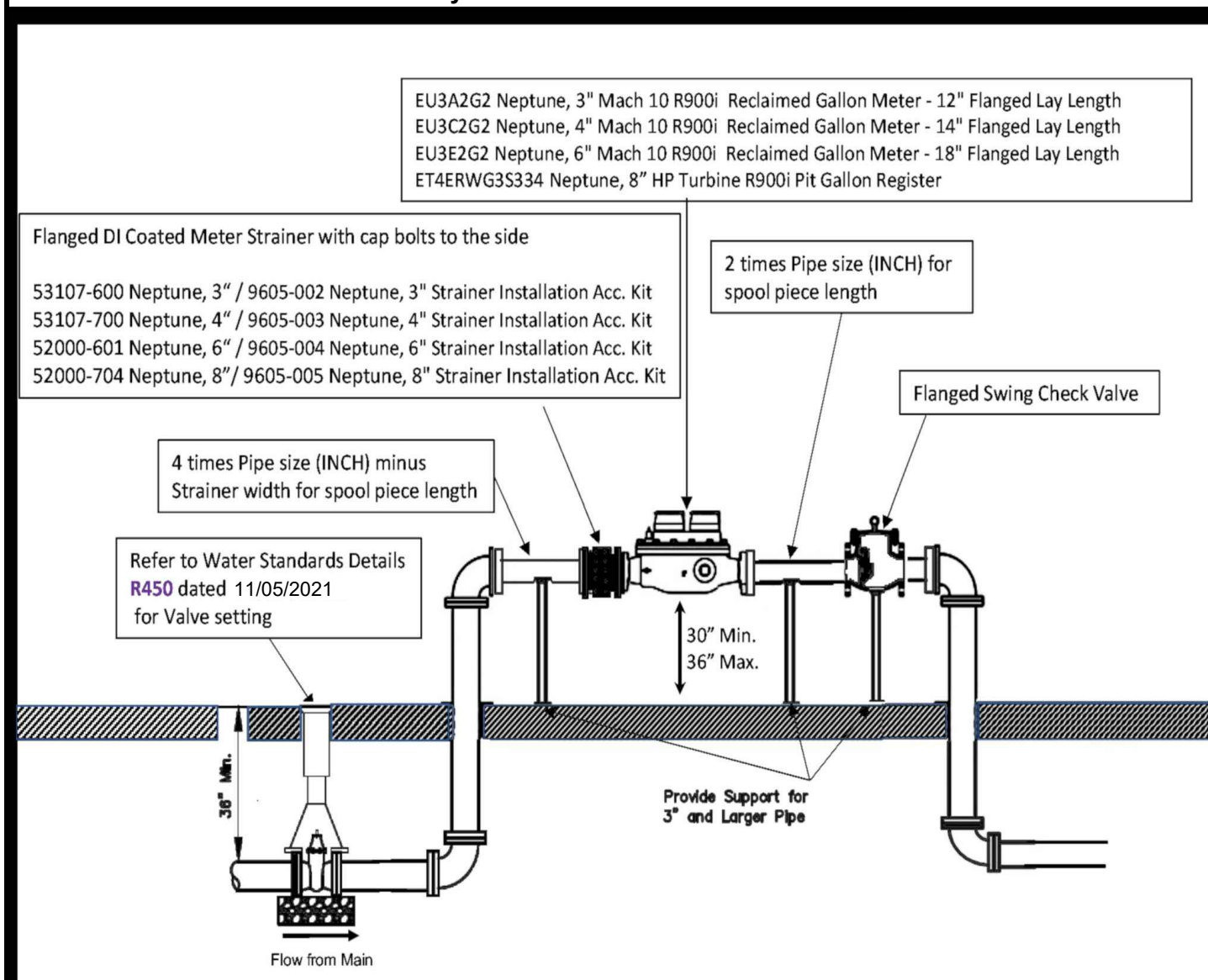
**City of DeLand - Standard Details**



DATE: 11/05/2021

**NEW REUSE SERVICE WHIP** **R426**

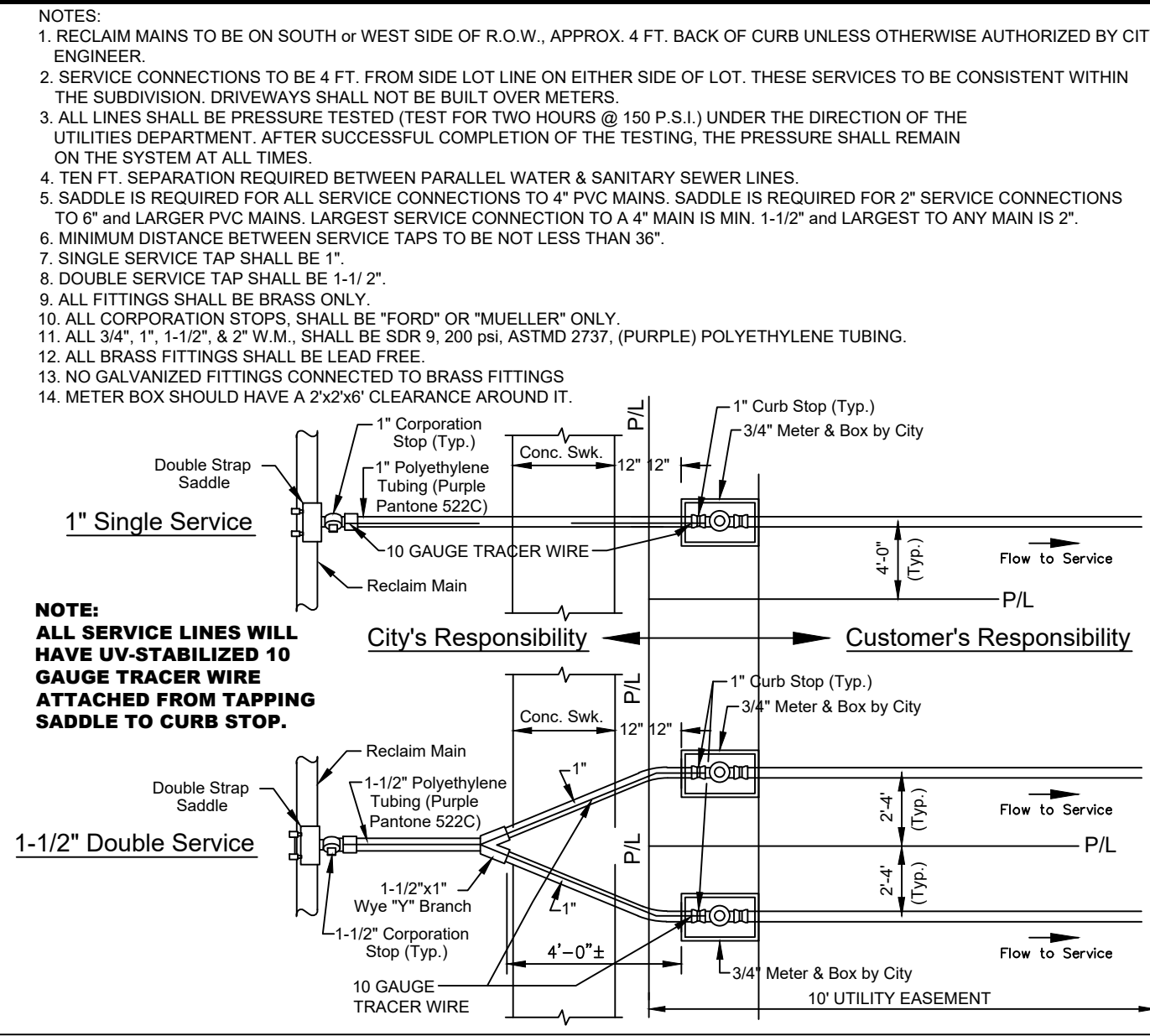
**City of DeLand - Standard Details**



DATE: 11/05/2021

**3" AND ABOVE RECLAIMED METER SET** **R453**

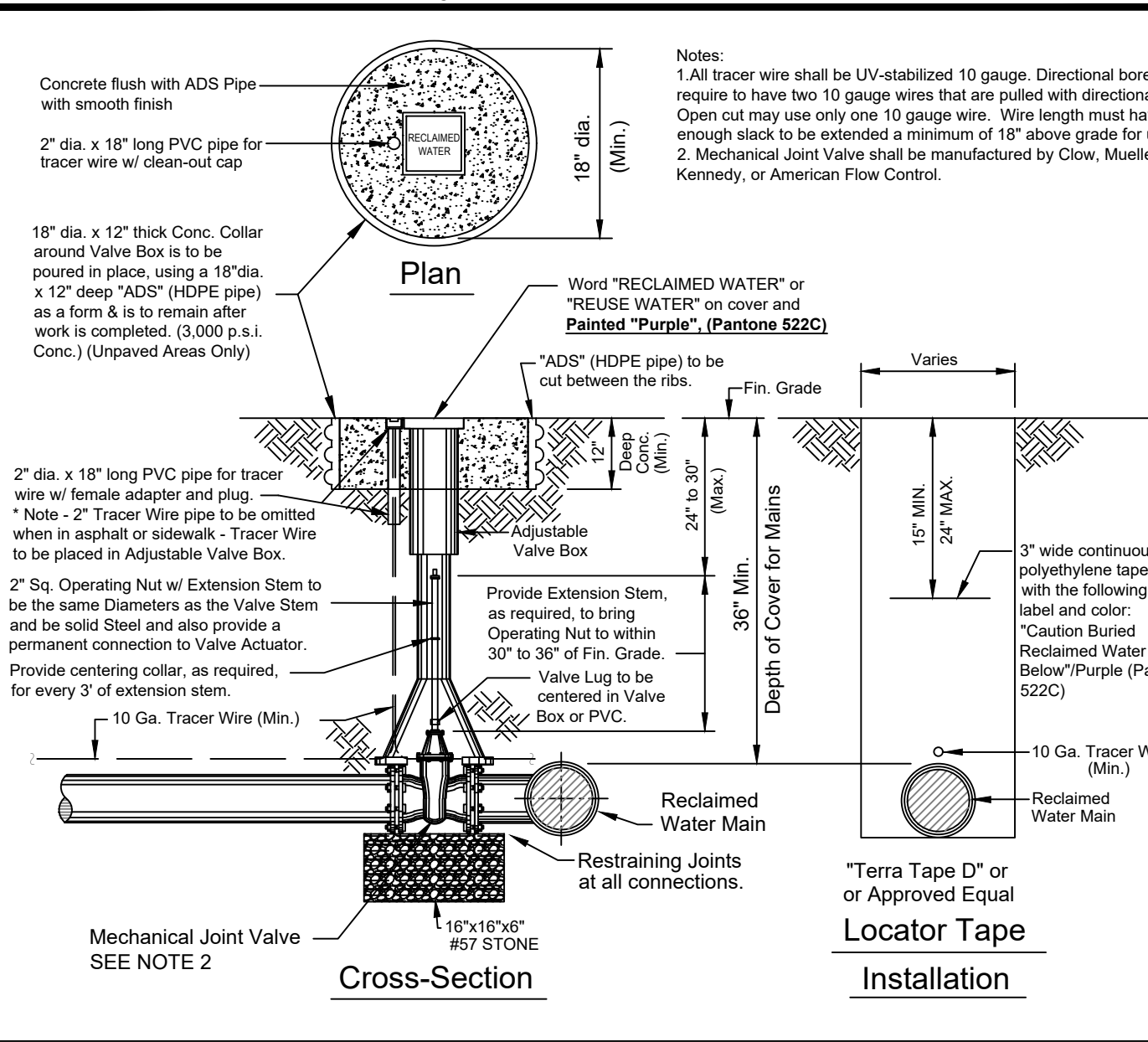
**City of DeLand - Standard Details**



DATE: 11/05/2021

**RECLAIM MAIN SERVICE CONN. WITH SIDEWALK** **R402**

**City of DeLand - Standard Details**



DATE: 11/05/2021

**RECLAIMED WATER VALVE SETTING** **R450**

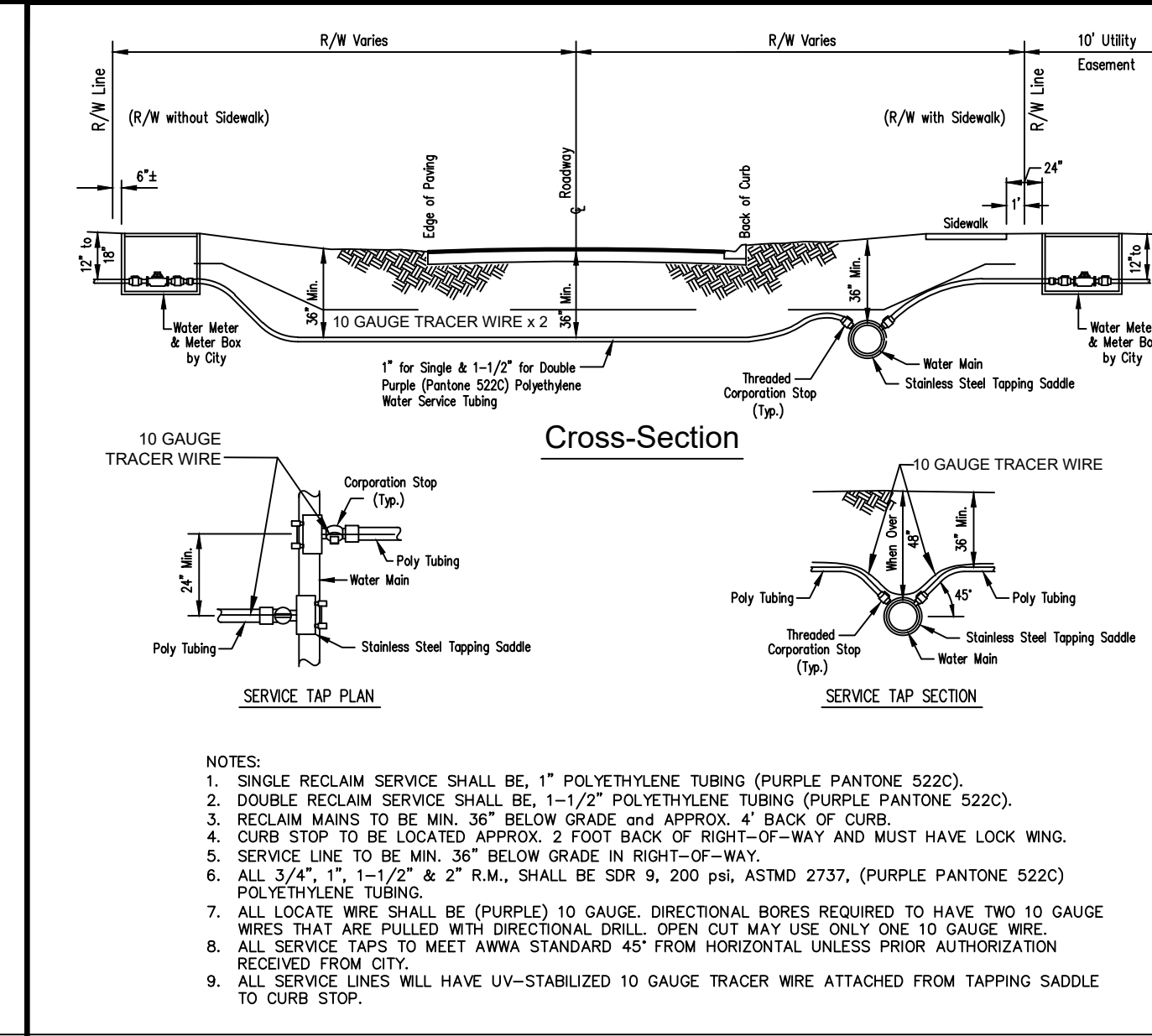
**City of DeLand - Standard Details**

1. THE CITY OF DeLand's UTILITIES DEPARTMENT (386-626-7250) SHALL BE GIVEN A MINIMUM OF 48 HOURS ADVANCE NOTICE (NOT INCLUDING HOLIDAYS OR WEEKENDS) PRIOR TO THE BEGINNING OF ANY RECLAIMED WATER SYSTEM CONSTRUCTION.
2. DEWATERING SHALL BE PROVIDED TO KEEP GROUNDWATER ELEVATION A MINIMUM OF 6 INCHES BELOW PROPOSED RECLAIMED WATER MAIN.
3. ALL RECLAIMED WATER MAINS SHALL BE LAID ON A FIRM FOUNDATION WITH ALL UNSUITABLE MATERIAL (MUCK, ROCK, COQUINA, ETC.) REMOVED AND REPLACED WITH CLEAN GRANULAR MATERIAL.
4. TRENCHES SHALL BE BACKFILLED WITH MATERIAL ACCEPTABLE TO THE CITY WITH A MINIMUM COMPACTION OF 95% IN UNPAVED AREAS AND 98% IN PAVED AREAS IN ACCORDANCE WITH AASHTO T-160.
5. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT TRENCH COMPACTION TESTS ARE PROVIDED AT POINTS 1 FOOT ABOVE THE PIPE AND AT 1 FOOT VERTICAL INTERVALS TO FINISH GRADE, AT A MINIMUM SPACING OF EVERY 300 FEET.
6. 3" METALLIZED PIPE LOCATION TAPE SHALL BE LOCATED BETWEEN 15" AND 24" BELOW FINISHED GRADE OR AS SPECIFIED BY MANUFACTURER FOR ALL PVC LINES. MARKER TAPE SHOULD BE PROVIDED ON ALL DIPS AS WELL.
7. ALL SINGLE RESIDENTIAL RECLAIMED WATER SERVICES SHALL BE 1" AND DOUBLE RESIDENTIAL SERVICES SHALL BE 1-1/2". SERVICES SHALL BE CTS 3408 HIGH DENSITY POLYETHYLENE TUBING RATED FOR A MINIMUM OF 200 PSI WITH SDR 9 (CTS). THE TUBING SHALL HAVE A VIRGIN HIGH DENSITY POLYETHYLENE CENTER FOR WHICH THE MANUFACTURER SHALL FURNISH A CERTIFICATE OF PURITY. THE TUBING SHALL BE "PURPLE" (PANTONE) IN COLOR AND SHALL HAVE THE WORDS "RECLAIMED WATER" PERMANENTLY PRINTED ON THE OUTSIDE. THE TUBING SHALL HAVE U.V. PROTECTION AND SHALL NOT BE AFFECTED BY DIRECT SUNLIGHT. THE TUBING SHALL COMPLY WITH OR EXCEED THE APPLICABLE STANDARDS OF A.S.D.M. D1916, D3350, D2239, D2737, N.S.F.-14 AND A.W.W.A. C901 AND SHALL COME WITH A LIFETIME WARRANTY. APPROVED SIZES: 1", 1-1/2" AND 2" DIAMETERS. ACCEPTABLE MANUFACTURERS: ENDOT ENDOCORE RWT OR APPROVED EQUAL.
8. REFER TO "NEW POTABLE AND REUSE SERVICE WHIP" R426.
9. RECLAIMED WATER VALVES SHALL BE PLACED AT ALL STREET INTERSECTIONS AND AT MAXIMUM SPACING OF 1,000 FEET.
10. AT ALL RECLAIMED WATER MAIN TEES AND CROSSES, VALVES SHALL BE INSTALLED ON ALL LEGS EXCEPT ONE.
11. APPROVED WATER VALVE TYPES MUELLER OR CLOW:
  - A. STANDARD GATE VALVES EQUAL TO OR LESS THAN 24" DIAMETER (AWWA C-500) OR RESILIENT SEAT GATE VALVES (AWWA C-509)
  - B. TAPPING VALVES WITH MECHANICAL OR STAINLESS STEEL TAPPING SLEEVE.
12. ALL RECLAIMED WATER VALVES SHALL BE ADJUSTED TO FINISH GRADE AND THE CAPS SHALL BE PAINTED PURPLE (PANTONE 522C) TO MAKE THEM PLAINLY DISTINGUISHABLE.
13. AS STANDARD PRACTICE RECLAIMED WATER MAINS SHALL BE INSTALLED 4 FEET OFF THE BACK OF THE CURB ON THE OPPOSITE SIDE OF THE POTABLE WATER LINES OR AS APPROVED BY THE CITY.

DATE: 11/05/2021

**RECLAIMED WATER NOTES - 1 OF 3** **R460**

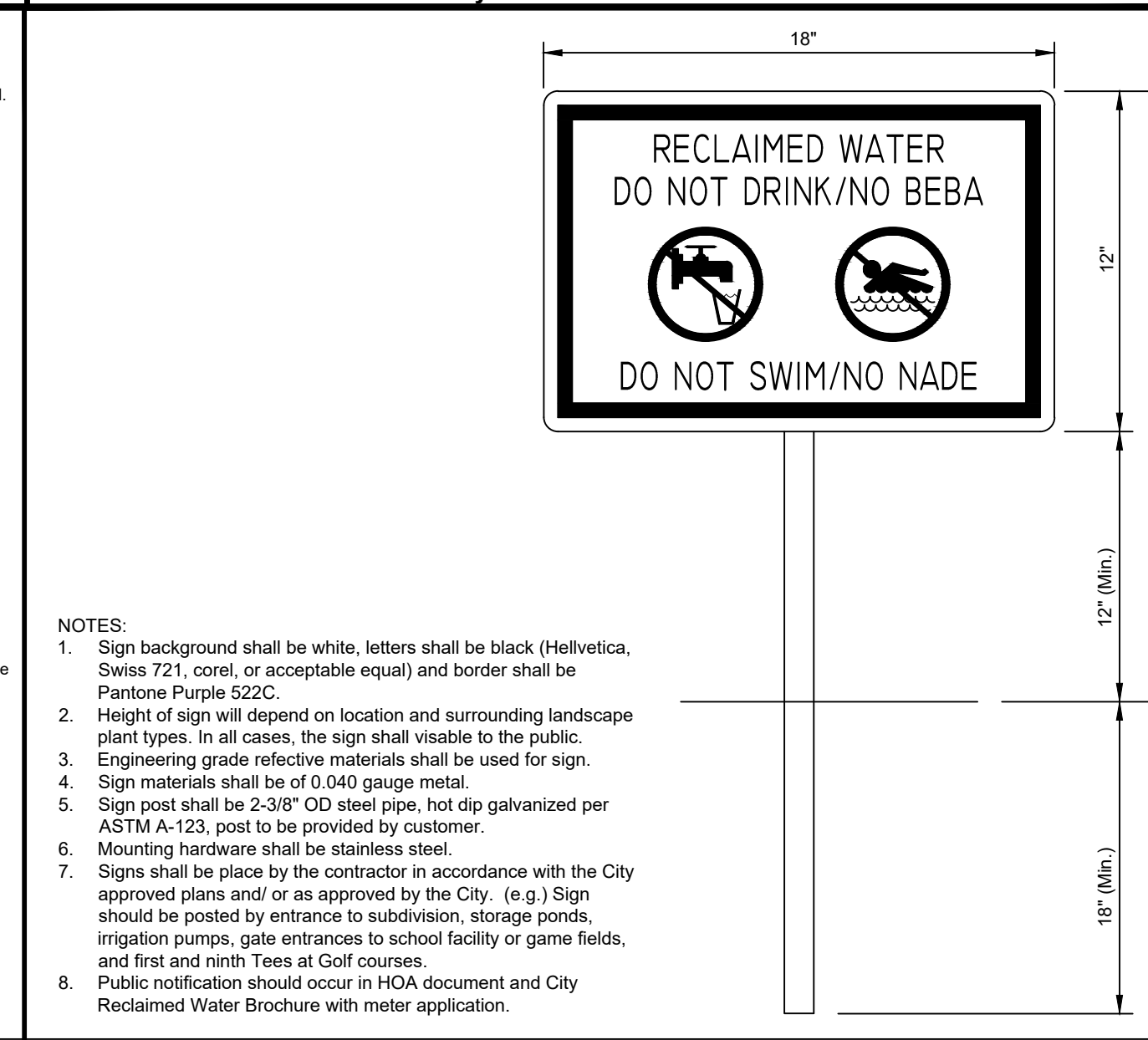
**City of DeLand - Standard Details**



DATE: 11/05/2021

**RECLAIM MAIN SERVICE LINES** **R403**

**City of DeLand - Standard Details**



DATE: 11/05/2021

**RECLAIMED WATER SIGNAGE** **R451**

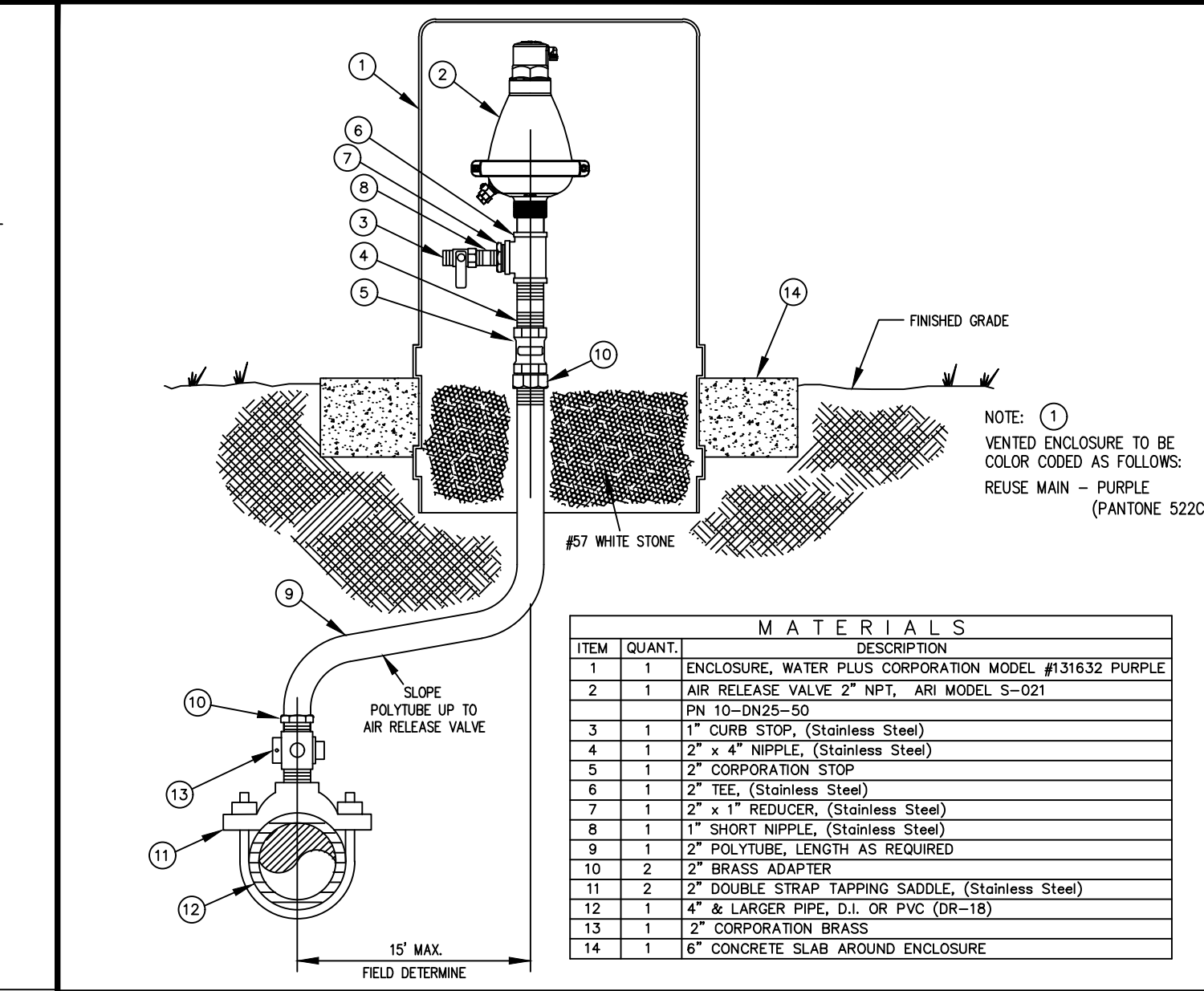
**City of DeLand - Standard Details**

14. ALL RECLAIMED WATER MAINS SHALL HAVE A MINIMUM COVER OF 36 INCHES. IN SPECIAL CASES WHERE IT IS IMPOSSIBLE OR INAPPROPRIATE TO PROVIDE ADEQUATE COVER, DUCTILE IRON PRESSURE CLASS 350 OR CONCRETE ENCASEMENT MAY BE USED AS APPROVED BY THE CITY.
15. THE CONTRACTOR SHALL NOTIFY THE CITY'S DESIGNATED INSPECTOR PRIOR TO ATTEMPTING TO CLEAR ANY RECLAIMED WATER MAIN FOR USE. THE INSPECTOR SHALL COORDINATE WITH CITY PERSONNEL AT THE RECLAIMED WATER PLANT 48 HOURS PRIOR TO BEGINNING OF ANY FULL-DIAMETER FLUSH OF MAINS. THE CONTRACTOR WILL CONDUCT A STANDARD WATER PRESSURE TEST, 150 PSI STATIC PRESSURE FOR A PERIOD OF 2 HOURS PER ANNA POTABLE WATER STANDARDS. THE RECLAIMED LINES WILL THEN BE DISINFECTED WITH CHLORINE, FLUSHED CLEAR AGAIN.
16. THE CONTRACTOR SHALL BE REQUIRED TO PIG ALL RECLAIMED MAINS IN EXCESS OF 4" IN DIAMETER AND PRIMARY DISTRIBUTION MAINS LOCATED ON COLLECTOR AND ARTERIAL ROADWAYS. LAUNCHING AND EXTRACTION POINTS SHALL BE DETERMINED BY THE CONTRACTOR. ALL PIGGING OPERATIONS SHALL BE WITNESSED BY A PUBLIC UTILITIES REPRESENTATIVE OR CITY UTILITY INSPECTOR.
17. RECLAIMED WATER MAINS SHALL BE PVC ANNA CLASS C-900 OR C-905, CL 150 (COLOR: "PURPLE" PANTONE 522C) OR DIP PRESSURE CLASS 350, STANDARD CEMENT LINED UNLESS APPROVED OTHERWISE BY THE CITY.
18. ALL RECLAIMED WATER MAINS SHALL USE A THRUST RESTRAINED JOINT METHOD IN COMPLIANCE WITH THE DUCTILE IRON PIPE RESEARCH ASSOCIATION (DIPRA) GUIDELINES. IN THE EVENT THAT PVC FITTINGS ARE SPECIFIED, THE RESTRAINED JOINT SHALL BE MODIFIED IN ACCORDANCE WITH THE RECOMMENDED ADDITIONAL RESTRAINED LENGTH REQUIRED FOR PIPE WRAPPED WITH POLYETHYLENE. IN NO INSTANCE SHALL THRUST BLOCKS BE PERMITTED.
19. MEGALUGS, BOLTLESS RESTRAINED JOINTS, OR GRIPPER GASKETS SHALL BE USED ON ALL RESTRAINED JOINT INSTALLATIONS. MINIMUM DEPTH BURY ON JOINTS NOT MEETING REQUIRED COVER REQUIREMENTS SHALL FOLLOW THE MOST RECENT DIPRA THRUST RESTRAINT DESIGN GUIDELINES. SEE DETAILS W408 AND W409.
20. GRIPPER RING GASKETS BY ROMAC MAY BE USED AS APPROPRIATE FOR RESTRAINED PRESSURE PIPE TO FITTINGS, VALVES, ETC.
21. UPON CONSTRUCTION COMPLETION AND ACCEPTANCE OF THE SYSTEM, IT SHALL BE THE DESIGN ENGINEER'S RESPONSIBILITY TO INSURE THAT THE SYSTEM IS PROPERLY CERTIFIED AND ACCEPTED BY THE CITY OF DeLand UTILITIES AND "AS-BUILTS" ARE PROVIDED TO THE CITY, PRIOR TO ANY USE OF THIS SYSTEM.
22. ALL RECLAIMED WATER MAINS AND SERVICE LINES SHALL BE READILY DISTINGUISHABLE BY THEIR "PURPLE" (PANTONE 522C) COLOR OR TAPE MARKINGS. DUCTILE IRON PIPE SHALL BE WRAPPED WITH PURPLE PANTONE 522C POLYETHYLENE.
23. ALL RECLAIMED WATER SERVICES SHALL BE MARKED ALONG THE OUTSIDE EDGE OF CURB WITH AN "R". VALVES AND BLOW-OFFS FOR RECLAIMED WATER MAINS SHALL BE MARKED BY AN "X" SET INTO THE CURB.
24. RECLAIM WATER SERVICES SHALL BE NORMALLY DOUBLE 1-1/2" SERVICES LOCATED AT SIDE LOT LINES ALTERNATING WITH POTABLE WATER SERVICE LOCATIONS. IN INSTANCES WHERE RECLAIMED WATER SERVICES NEED TO BE OFFSET, DUE TO SEWER LATERAL CONNECTION, 1" SINGLE SERVICES SHALL BE SPECIFIED, THESE SERVICES MAY BE OFFSET FROM THE LOT LINE A MAXIMUM DISTANCE OF 4.0'.

DATE: 11/05/2021

**RECLAIMED WATER NOTES - 2 OF 3** **R461**

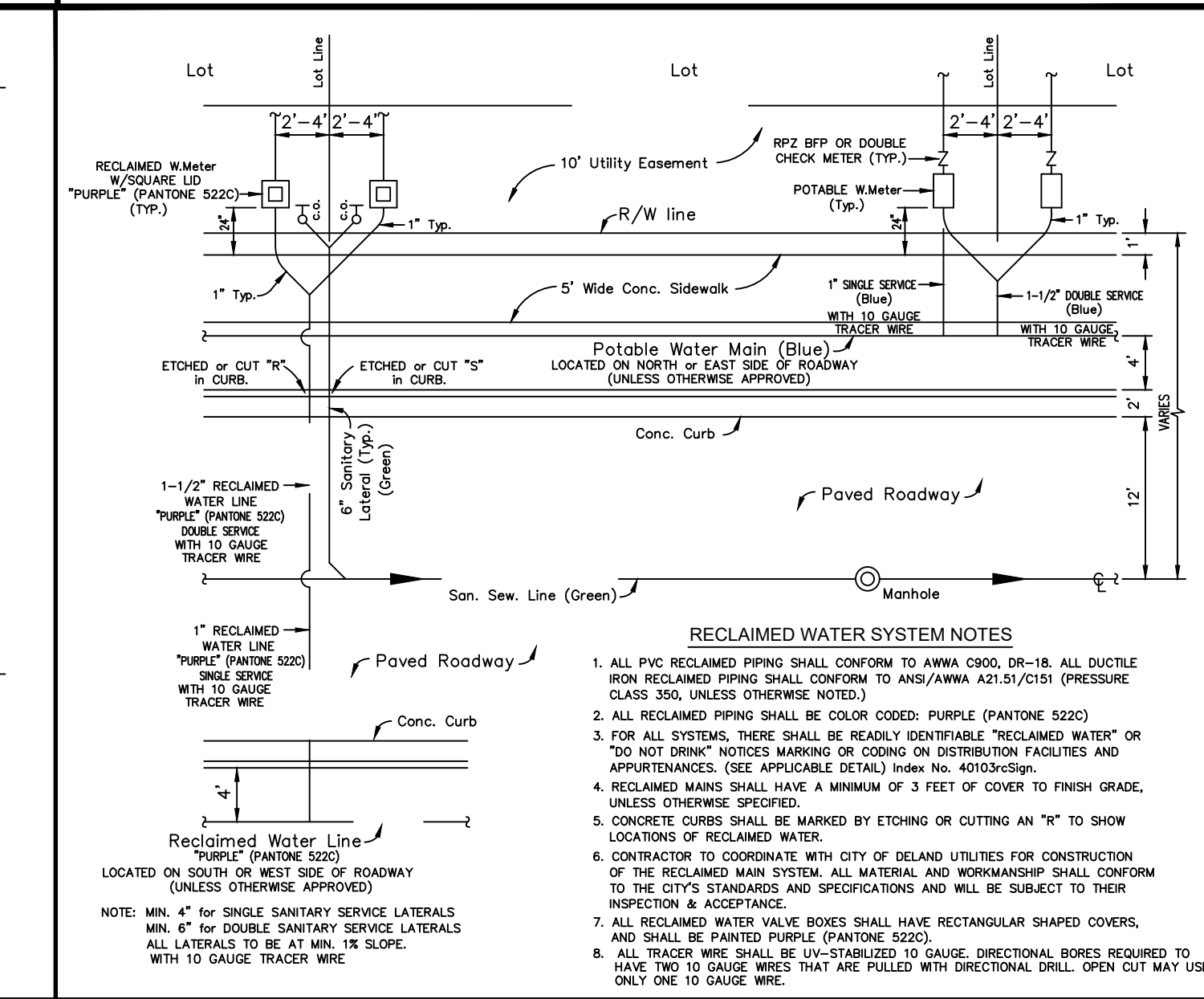
**City of DeLand - Standard Details**



DATE: 11/05/2021

**OFFSET AIR RELEASE VALVE** **R421**

**City of DeLand - Standard Details**



DATE: 11/05/2021

**RECLAIMED WATER SYSTEM LAYOUT** **R452**

**City of DeLand - Standard Details**

25. MAXIMUM OBTAINABLE SEPARATION OF PUBLIC RECLAIMED WATER MAINS, STORMWATER MAINS, AND SANITARY SEWER MAINS SHALL BE MAINTAINED. A MINIMUM HORIZONTAL SEPARATION OF THREE (3) FEET (OUTSIDE TO OUTSIDE), TEN (10) FEET PREFERRED. A MINIMUM VERTICAL SEPARATION OF SIX (6) INCHES, IF WATER MAIN IS ABOVE STORM, SAN. SEW. & RECLAIMED MAINS. A MINIMUM VERTICAL SEPARATION OF EIGHTEEN (18) INCHES, IF WATER MAIN IS BELOW STORM, SAN. SEW. & RECLAIMED MAINS. (Ref Detail W420).
26. NO RECLAIMED WATER HOSE BIBBS ARE PERMITTED.
27. A 75-FOOT SETBACK DISTANCE SHALL BE PROVIDED FROM PUBLIC ACCESS REUSE WETTED AREAS TO ANY PUBLIC AND ANY PRIVATE POTABLE WATER SUPPLY WELLS.
28. LOW TRAJECTORY NOZZLES ARE REQUIRED WITHIN 100 FEET OF PUBLIC EATING, DRINKING OR BATHING FACILITIES.
29. ALL TAPPING OF MAINS SHALL BE PERFORMED BY THE CONTRACTOR AND WITNESSED BY THE CITY INSPECTOR. SCHEDULING OF THESE CONNECTIONS SHALL REQUIRE A MINIMUM 48 HOUR NOTIFICATION (MEASURED ON NORMAL WORK DAYS) DIRECTED TO THE CITY'S DESIGNATED SITE INSPECTOR WHO SHALL COORDINATE THE WORK DIRECTLY WITH THE CITY'S UTILITIES DEPARTMENT. SUBSEQUENTLY, THE CONNECTION SHALL BE SCHEDULED TO COMMENCE BETWEEN 7:00 A.M. AND NOON ON THE APPROPRIATE DAY, UNLESS ALTERNATE TIMES HAVE BEEN APPROVED BY THE CITY.
30. WITH RESPECT TO THE RIGHT TO REQUIRE CONNECTIONS TO BE PERFORMED DURING PERIODS OF LOW FLOW IN ORDER TO MINIMIZE SERVICE DISRUPTION TO EXISTING CUSTOMERS.
31. ALL WORK PERFORMED UPON RECLAIMED WATER FACILITIES OWNED OR PROPOSED TO BE OWNED BY THE CITY, SHALL BE CONSTRUCTED BY AN UNDERGROUND UTILITY OR GENERAL CONTRACTOR LICENSED IN THE STATE OF FLORIDA AND REGISTERED WITH THE CITY.
32. FOR CONSTRUCTION PURPOSES, THE PLANS SHALL PROVIDE DIMENSION OF THE PROPOSED LOCATIONS OF ALL RECLAIMED WATER MAINS MEASURED FROM THE BACK OF CURB (OR EDGE OF PAVEMENT IF NO CURB EXISTS).
33. ALL HDPE PIPE RECLAIMED WATER MAINS SHALL BE SDR 11 UNLESS SPECIFICALLY NOTED OTHERWISE. THE HDPE PIPE SHALL BE SIZED TO MATCH THE INTERNAL DIAMETER OF THE DIPRA OR DIP TO WHICH IT IS ATTACHED.
34. ALL P.V.C. PIPE SHALL BE STORED IN SUCH A WAY AS TO PREVENT WARPING, DEFLECTION, OR ANY DEFORMATION.
35. RECLAIMED WATER HYDRANTS ARE NOT ALLOWED BY THE CITY.
36. NO USED, RE-USED, RUSTED, SECOND HAND, OR ANY MATERIAL THAT IS NOT "NEW" SHALL BE USED IN ANY UTILITY IMPROVEMENT PROJECTS WITHIN THE CITIES SERVICE AREA.
37. LARGE RECLAIMED WATER METERS GREATER THAN 2" TAKES A MINIMUM OF 6 WEEKS FOR DELIVERY. IN ADDITION, ALL METERS AND VAULTS GREATER THAN 2" SHALL BE INSTALLED BY THE OWNER/ DEVELOPER OR CONTRACTOR. THE FEE COLLECTED BY THE CITY IS FOR MATERIALS ONLY, ALL METERS, 2" AND LESS, SHALL BE INSTALLED BY THE CITY, AFTER ALL FEES HAVE BEEN PAID.
38. TYPICALLY, THE CITY PREFERS DOUBLE SERVICE INSTALLATIONS WHEREVER FEASIBLE. WHEN DESIGN CONFLICTS EXIST, SINGLE SERVICES MAY BE ALLOWED. THIS MAY APPLY AT STORMWATER INLETS, FIRE HYDRANTS, FPL TRANSFORMERS, ETC. AND OTHER LOCATIONS DEEMED APPROPRIATE BY THE CITY.
39. ALL RECLAIMED WATER VALVE BOXES SHALL HAVE RECTANGULAR SHAPED COVERS, AND SHALL BE PAINTED "PURPLE" (PANTONE 522C) AND LABELED REUSE OR RECLAIM.

DATE: 11/05/2021

**RECLAIMED WATER NOTES - 3 OF 3** **R462**

**City of DeLand - Standard Details**

**CITY OF DELAND, FLORIDA**  
1102 S. GARFIELD AVENUE, DELAND, FLORIDA 32724

DATE: 11/05/2021

CHECKED BY: NAME

SCALE: NOT TO SCALE

DRAWN BY: ERIC SAMPSON

TITLE: RECLAIMED WATER DETAILS

FILE: drive letter/details locations





## Planning Department Memorandum

**TO:** Planning Board

**DATE:** June 6, 2023

**FROM:** Belinda Williams-Collins, Sr. Planner

**SUBJECT: Site plan review - Meadowlea Village Ph 4-5**

=====

At the May 17, 2023 meeting of the Planning Board, the applicant requested additional time to explore the feasibility of adding a secondary access point for this next phase of the project which consists of an additional 103 residential units. The information, including a Traffic Impact Analysis (TIA), a summary regarding the feasibility of adding an additional access point, and an alternative solution regarding secondary access has been provided.

The applicant concluded (correspondence attached) that adding an additional access point at the southern end of the development would present a financial burden. Because Charles P. Bailey Road is not expected to be paved in the near future, a full-movement access point is not feasible.

The City's Deputy Fire Marshall has indicated that the roadway (Charles P. Bailey Road) was checked to determine if a fire truck could reach the area in an emergency situation and it was concluded that it could. The City's Deputy Public Services Director/City Engineer has indicated that there are no plans to pave the roadway until development takes place in the area, however, the road can be graded as needed to make it more stable for emergency vehicle use.

The TIA stated that the expansion would only result in an additional 0.3 second delay at the project entrance, there was not enough benefit anticipated to offset the cost of a second entrance. Additionally, the cost of extending Charles P. Bailey Road and improving it to current city engineering standards was estimated at \$937,400.00 and was considered too significant in relation to the overall project costs for an affordable, over-55 residential development.

However, the applicant has proposed an alternative to a full-movement access point that meets the intent of the development regulations and provides additional access to the site:

A second paved entrance to the development will be provided onto Carter Road at the northwest corner of the development, which satisfies the code requirement regarding secondary access (33 90.05(g)4).

In order to provide emergency access for residents in the southern portion of the project, the construction access drive at southwest corner of the site (at Charles P. Bailey Road) will be converted to a stabilized emergency access point following construction activities.

Staff has reviewed the proposed solution and finds that the additional paved access point on Carter road, along with the additional stabilized emergency access point along Charles P. Bailey Road, meets the intent of the development regulations.

## Correspondence from applicant's engineer:

June 5, 2023

As requested by the Planning Board, our client has explored the cost and feasibility associated with paving the additional portion of Eidson Drive, between the Davita Labs site, and the connection point at the southern end of Meadowlea Village. Some of the determined impacts are listed below:

- Required design plans will need to be furnished for the roadway, drainage, and lighting facilities, including soil testing and surveying to support the design.
- Permitting for the road will be required through the City of Deland and the St. Johns River Water Management District.
- The required water retention area for the portion of Eidson Drive in question is adjacent to flooding and wetland areas, and could require additional permitting constraints if these areas cannot be avoided.

Estimated costs for the public improvements are as follows:

734,000 Construction Cost  
+ 73,400 10% Contingency  
+120,000 Surveying, Engineering, Environmental, Geotechnical  
+ 10,000 Permit Fees  
\$937,400 Estimated Total

\$65,000 Additional FEMA Flood Study and Permitting Fees if it is determined that the nearby FEMA Floodplain is impacted by the roadway and requires FEMA map revisions. This permitting typically takes about a year to complete through FEMA's review.

The above costs are significant in relation to the project costs. Additionally, the design and permitting required would extend the project timeline by at least another 6 months and has some potential unknowns which could add even further delays. In the current construction pricing climate, this has the potential to drive the project costs even higher.

**After consideration of the above items, Cove Communities has determined that full construction of Eidson Drive reduces the viability of the project and is not a good access solution for the project.**

However, a second paved entrance to the development will be provided onto Carter Road at the NW corner of the development, which satisfies the city of Deland's ordinance # 33-90.05(g)4. Additionally, in recognizing that there is a need for residents in the southern portion of the project to have access in an emergency situation, an emergency access will be provided at the SW corner of the property onto the existing cleared Eidson Drive roadway. Also recognizing that it is not desirable for the residents to have construction traffic through the neighborhood, the emergency access location will function as the construction entrance during development of the project. Considering that both the emergency access, and the construction uses will need a reliable surface for medium to heavy vehicles, the soil in this section of unpaved Eidson Drive will be stabilized and compacted for heavy vehicle use, but will not be covered with any impervious materials. I've attached a copy of the Master Plan, on which the entrances noted above have been highlighted for reference.

As we are not proposing normal traffic be introduced onto Eidson Drive, no update the Traffic Impact Statement is expected to be necessary at this time.

We trust this information is helpful and alleviates the access concerns previously raised. Please feel free to contact me if you need anything further.

Sincerely,  
Chris Gwin, P.E.



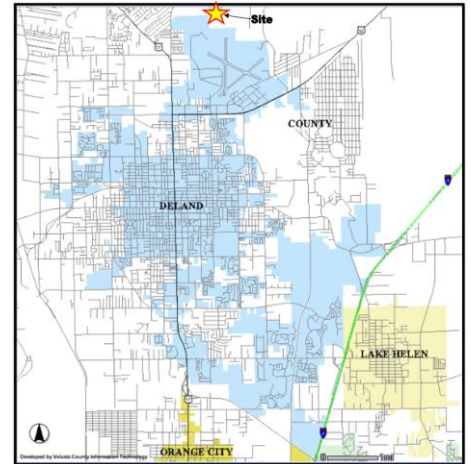


**PLANNING STAFF REPORT  
TO  
CITY OF DELAND PLANNING BOARD  
April 19, 2023**

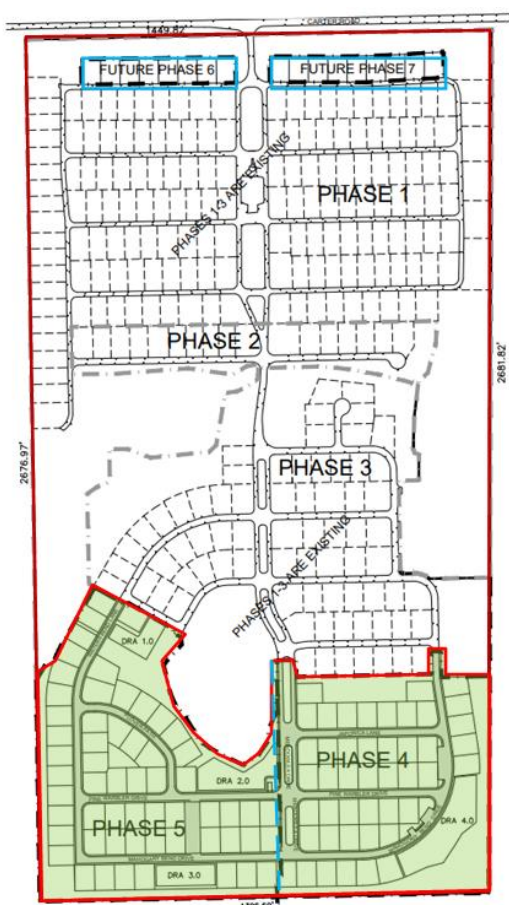
**A. APPLICATION NO.:** SP22-211  
**APPLICANT:** Michael W. Radcliffe, Radcliffe Engineering  
**REQUEST:** Class IV Site Plan – Meadowlea Village  
**APPLICABLE SECTIONS:** Article XII, Section 33-132

**B. SITE CONDITIONS:**

**Location:** East of SR 11, north of Municipal Airport  
**Parcel Size:** 22.11 ± acres: Phase 4 = 10.17 ac., Phase 5 = 11.94 ac. (87.53 acres overall)  
**Existing Zoning:** R-M  
 (Residential Mobile Home)  
**Land use:** Medium density residential



The site is located in the northern city limits north of the DeLand Municipal Airport and the property currently contains the existing Meadowlea Village, Phases 1-3. The applicant requests an expansion of the existing mobile home park to develop 103 additional mobile home spaces. The additional units will bring the total number of lots to 360. The development is an age restricted, 55+, development and the proposed lots will be age restricted as well.

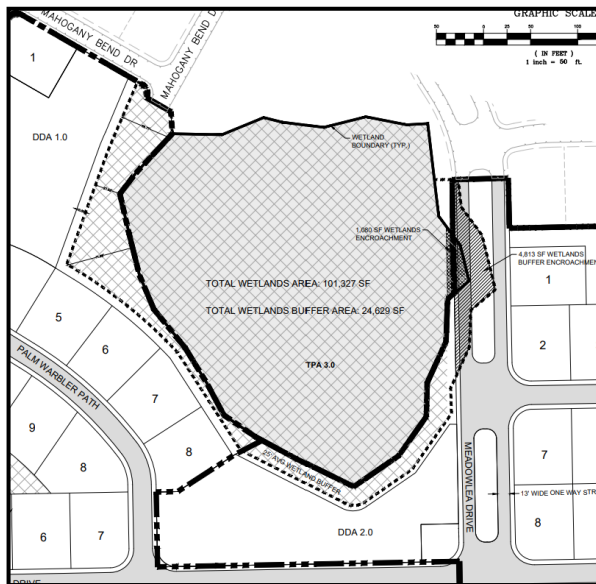


Two phases (4 & 5) are proposed, and these two phases are to be developed south of the existing residential development. Two additional future phases (6-7) are anticipated to be built at some point in the future and will contain 8 and 9 lots respectively. Phases 1-3 were developed under Volusia County regulations and the mobile home park was annexed into the City of DeLand on November 2, 2020.

**C. LAND USE PLAN:** In order to develop the property, the applicant is proposing the addition of utilities including water and sewer provided by the City of DeLand, creation of stormwater ponds and the addition of new roads to accommodate access to the new residential parcels.

The portion of this property in question for development is currently undeveloped, wooded and it is proposed to develop the lots surrounding a large wetland that is located in Phase 1 of the development. Per Section 33-58.08(1) of the Land Development Code, developments which require the issuance of a development order for a site plan or subdivision and have obtained a valid environmental resource permit from the St. Johns River Water Management District are exempt from the requirements of the provision of a protection and buffer zone. An application for a St. Johns River Water Management





District permit has been submitted for the wetland impact and is to be provided to the City upon issuance. The wetland totals approximately 101,327 square feet in area (2.32 acres) with a buffer area of 24,629 square feet. The buffer provided averages 25 feet in width, and the buffer encroachment area totals 4,813 square feet.

Typical lot size is 62' x 80 feet and includes the mobile home structure and a carport that accommodates space for 2 vehicles. The development will include a total of 32 on-street/visitor parking spaces, including 2 handicapped spaces.

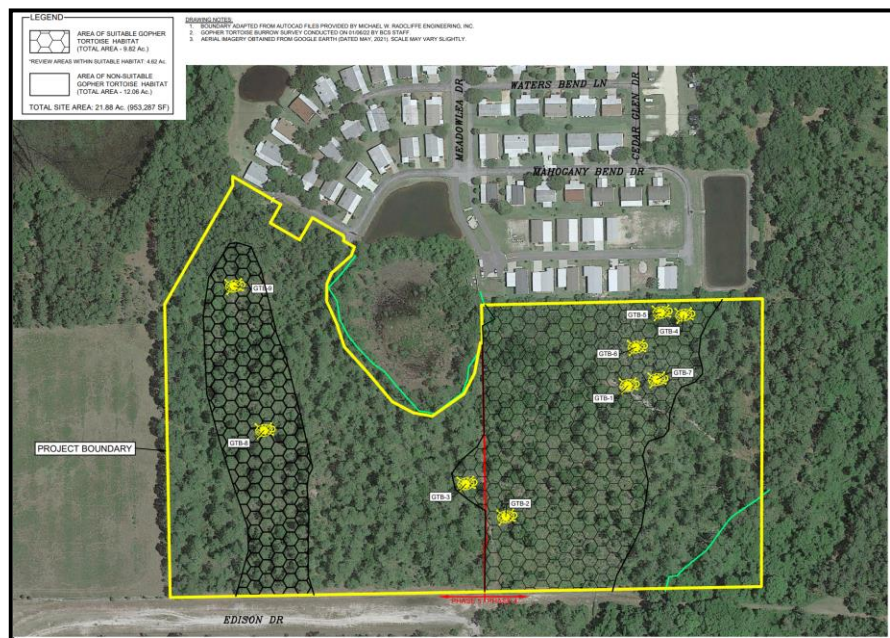
The mobile home park is not gated and access to the property is via County maintained Carter Road. A traffic analysis indicates that there will be an

increase of 31 peak hour trips to a total of 108 PM peak hour trips, however, no TIA will be required because the volume is low. (At total buildout, the anticipated number of trips is estimated to be only 113 trips.) A driveway upgrade may be necessary and a county use permit has been applied for.

**D. ANALYSIS:** The overall development will be accomplished in a total of 7 phases with the ultimate completion of 376 lots total broken down as follows:

|                       |                       |
|-----------------------|-----------------------|
| Phase 1               | 167 lots              |
| Phase 2               | 17 lots               |
| Phase 3               | 73 lots               |
| <b><u>Phase 4</u></b> | <b><u>45 lots</u></b> |
| <b><u>Phase 5</u></b> | <b><u>57 lots</u></b> |
| Phase 6               | 8 lots                |
| Phase 7               | 9 lots                |
| <b>TOTAL</b>          | <b>376</b>            |

The Biological Survey Report indicated that in the survey conducted on January of 2022, a total of 9 gopher tortoise burrows were observed on-site and that 4 options were available to address the presence of tortoises.



1. Avoid developing in the area occupied by tortoises.
2. Develop as to avoid gopher tortoise burrows by avoiding concentrations of burrows altogether and/or staying at least 25 feet from entrances of individual burrows, provided that such activities do not harm gopher tortoise or violate rules protecting gopher tortoises
3. Relocate tortoises on-site (permit required); or

4. Relocate tortoises off-site (permit required)

The applicant stated that within 90 days of any site disturbance, a gopher tortoise burrow survey will be conducted, and the appropriate gopher relocation permit will be obtained from the Florida Fish and Wildlife Conservation Commission and any gopher tortoises found would be relocated.

- The zoning district (R-M) permits a maximum of 6 dwelling units per acre. The overall density once complete will be 4.29 units per acre (376 units/87.53 acres).
- Water and sewer services are provided by the City of DeLand.
- Parking is provided at a rate of 2 spaces/unit + .25/unit for visitors = 25.7 required. A total of 32 visitors spaces are provided.
- It is a requirement that 15% of the site be set aside for tree protection areas. These phases total 22.11 acres and the required TPA acreage would therefore be 3.31 acres. A total of 5.16 acres of TPA has been provided for these phases. Prior to approval of the final phases the applicant must verify that the eventual overall TPA area will meet or exceed the 15% for the entire development.
- Traffic generation/traffic impact - The additional units are expected to generate 31 pm peak hour trips. With the additional 103 units, Meadowlea will have a total of 360 units, and the trip generation will increase to 108 pm peak hour trips. The additional units don't require a TIA, per TPO TIA Guidelines, however, the additional volume at the driveway may warrant a driveway upgrade that will require a county use permit. A few years ago, the entrance taper was designed as large as possible without impacting the large concrete power pole at the entrance. Since then, the existing entrance has been functioning well. The County Use Permit is being submitted separately.
- School concurrency – Because this is a 55+ community, no School concurrency review is required.



At the November 17, 2022 meeting of the Technical Review Committee (TRC) the applicant was advised to address all comments and resubmittal to the Planning Board.

**E. STAFF RECOMMENDATION:**

Staff recommends approval of the Class IV Site Plan for Meadowlea Village Because of the size of the development, the final decision on all Class IV developments is made by the City Commission. The City Commission will hear the application at the May 15, 2023 meeting.



**CITY OF DELAND**  
**Request for Commission Action**  
**July 17, 2023**

**SUBJECT:** Resolution Approving the DeLand 2050 Vision Plan Update.

**DEPARTMENT:** Planning

**PREPARED BY:** Kendall Story, Senior Planner

**ATTACHMENTS:** Resolution, City Commission Memorandum - 2050 Vision Update, 2050 Vision Update, City Commission Agenda Workshop 09-26-22

**APPROVED BY:** Michael Pleus, City Manager, July 13, 2023

---

**SUMMARY/HIGHLIGHT:**

On November 11, 2011, the City Commission adopted the 2050 Vision plan for the City of DeLand. Staff has been referring to this document as applications are reviewed and presented to the Planning Board and the City Commission. The 2050 Vision Plan serves as a guide to the City's Comprehensive Plan, and because it is a long-range, living document, it needs to be reviewed and updated as needed. Development trends have changed in the City since the Vision plan was first adopted, so, in 2019, staff reviewed the plans to determine if an update was warranted. Staff involved the public through public workshops, surveys, and interviews to receive input from residents. However, the COVID19 pandemic put these update efforts on hold. In the second half of 2022, staff conducted an additional workshop with the City Commission to provide additional insight as to how to update the vision.

Data that was gathered between 2019-2020 was reviewed and staff conducted a workshop on the update with City Commission on September 26, 2022. Many of the key findings were still relevant and minimal changes were made to the 2019 and 2020 update efforts. Priorities such as maintaining the "small-town feel" and allowing different housing types and sizes are still relevant today.

This new, updated supplemental plan, the DeLand 2050 Vision Plan Update, is included with this memo, along with the workshop materials from the September 26, 2022 Commission workshop. This item was shared with the Planning Board for informational purposes. If approved, the 2050 Vision Plan Update will serve as a supplement to the existing 2050 Vision Plan, continuing its purpose of helping to guide future growth in the City of DeLand. Staff anticipates undertaking a comprehensive update to the plan in the coming years.

**Changes Made:**

- Smart Growth Principles were added to the text
- Tables were created for each guideline outlined in the Vision Plan. The tables act as a quick reference guide that easily outlines which guidelines were maintained from the original 2050 Plan, which guidelines were modified and which guidelines were added as part of the 2050 Update.

**STRATEGIC PLAN FOCUS AREA/ACTION STEP:**

One of the key areas of focus included in the city's Strategic Plan identifies the importance of community preservation.

*Preserving "Sense of Community" as a key asset – "Throughout the strategic planning process, the term "sense of community" has been highly valued as a distinctive DeLand asset. The term is most often*

*associated with downtown, historic district, Stetson and the old city grid. It is this core city identity that citizens want to maintain and preserve...”*

The text goes on to recognize the importance in maintaining a “sense of place” (which can be defined as how our surroundings affect our overall health and well-being).

The public workshops and surveys that began back in 2019 as part of the DeLand 2050 Vision Update provided a window into what contributes into how a “sense of place” is created in DeLand. Many residents identified the city’s “small-town feel” as being an important characteristic to maintain when considering future development.

**Action Steps:**

1. Support additional diverse and inclusive events throughout the city.
2. Support preservation of historic structures in the core of the city as well as throughout the city.

**SUSTAINABILITY:**

N/A

**FISCAL IMPACT:**

N/A

**RECOMMENDATION:**

It is recommended that the City Commission approve the 2050 Vision Plan Update.

**BACKGROUND/DISCUSSION:**

The draft 2050 Vision Update was shared with the Planning Board at their regularly scheduled meeting held on June 21, 2023. The shared documents were informational and did not require formal action by the Planning Board.

If approved, the 2050 Vision Plan Update will serve as a supplement to the existing 2050 Vision Plan, continuing its purpose of helping to guide future growth in the City of DeLand.



**RESOLUTION NO. 2023 -**

**A RESOLUTION OF THE CITY COMMISSION OF DELAND, FLORIDA,  
OFFICIALLY RECOGNIZING THE DELAND 2050 VISION PLAN  
UPDATE; PROVIDING FOR APPROPRIATE CONSIDERATION  
THEREOF IN FUTURE LEGISLATIVE LAND USE DECISIONS; AND  
PROVIDING FOR AN EFFECTIVE DATE.**

**WHEREAS**, on November 11, 2011, the City Commission adopted the 2050 Vision Plan for the City of DeLand which serves as guide to the City's Comprehensive Plan and must be reviewed and updated as needed; and

**WHEREAS**, the DeLand Planning Board and City Commission held joint public workshops to discuss and develop a renewed vision for the future development of the DeLand community based on Smart Growth principles and sustainability; and

**WHEREAS**, the City of DeLand held numerous community and stakeholder meetings and conducted various surveys in order to provide comments on the continued vision for the development of the DeLand community over the next 27 years; and

**WHEREAS**, in due consideration of the findings of those community meetings and surveys, the DeLand Planning Board and City Commission held joint public workshops to discuss a vision for the future development of the DeLand community; and

**WHEREAS**, the foregoing process culminated in a document entitled the DeLand 2050 Plan Update (hereinafter referred to as the "Plan"), a copy of which is attached hereto; and

**WHEREAS**, the Plan is not a part of the City's Comprehensive Plan or Land Development Regulations, and does not otherwise constitute a binding law or regulation of the City of DeLand, and this resolution should not be construed as the adoption of any law, rule or regulation of the City of DeLand, nor should it be construed in any way to affect the permitted uses to which any property depicted in the Plan can be used; and

**WHEREAS**, the City Commission finds that it is in the best interest of the health, welfare and safety of its present and future citizens that the Plan be considered wherever and whenever it is appropriate to do so in legislative decision making processes concerning the future growth and development of the DeLand community; and

**WHEREAS**, it is the desire of the City Commission of the City of DeLand that the Plan be given due consideration when future legislative land use recommendations and decisions are being considered.

**NOW, THEREFORE BE IT RESOLVED BY THE CITY COMMISSION OF  
DELAND, FLORIDA:**

**Section 1.** The foregoing preamble is found to be correct and is hereby incorporated herein by reference.

**Section 2.** The attached DeLand 2050 Vision Plan Update is hereby officially recognized, and the City Commission of the City of DeLand hereby declares its intentions for the consideration to be given the said Plan, as more particularly set forth in the preamble to this Resolution.

**Section 3.** If any section, sentence, clause or phrase of this Resolution is held to be invalid or unconstitutional by any court of competent jurisdiction, that holding shall in no way affect the remaining portions of this Resolution.

**Section 4.** This Resolution shall become effective immediately upon its adoption.

**PASSED AND DULY ADOPTED** this 17<sup>th</sup> day of July, 2023.

---

Christopher M. Cloudman  
Mayor-Commissioner

ATTEST:

---

Julie A. Hennessy  
City Clerk - Auditor

**APPROVED AS TO FORM AND LEGALITY:**

---

Darren J. Elkind  
City Attorney





## Planning Department

### Memorandum

**TO:** City Commission

**DATE:** July 17, 2023

**FROM:** Kendall Story, CNU-A  
Senior Planner

**SUBJECT:** Update to the 2050 Vision Plan

---

On November 11, 2011, the City Commission adopted the 2050 Vision plan for the City of DeLand. Staff has been referring to this document as applications are reviewed and presented to the Planning Board and the City Commission. The 2050 Vision Plan serves as a guide to the City's Comprehensive Plan, and because it is a long-range, living document, it needs to be reviewed and updated as needed. Over the last 12 years, development trends have changed in the City, so, in 2019, staff reviewed the plans to see if an update was warranted. Staff involved the public through public workshops, surveys, and interviews to receive input from residents. However, the COVID-19 pandemic put these update efforts on hold. In the second half of 2022, staff conducted additional workshops with the public, City Commission and Planning Board to provide additional insight as to how to update the vision.

Data that was gathered between 2019-2020 was reviewed and staff conducted a workshop on the update with City Commission on September 26, 2022. Many of the key findings were relevant and minimal changes were made from the 2019 and 2020 update efforts. Priorities such as maintaining the "small-town feel" and allowing different housing types and sizes are still relevant today.

This new, updated plan, the DeLand 2050 Vision Plan *Update*, is included with this memo, along with the workshop materials from the September 26, 2022 Commission workshop. This item was shared with the Planning Board on June 21, 2023 for informational purposes.

If approved by City Commission at their meeting on July 17, 2023, the 2050 Vision Plan Update will replace the current plan, continuing its purpose of helping to guide future growth in the City of DeLand.





# Table of Contents

Introduction & Executive Summary

Smart Growth

Evaluation and Assessment Process

General Summary and Key Findings

Guidelines

    Community Characteristics & Guidelines - “small town feel”

        Community Character

        Land Use

        Transportation

    Economic Development & Sustainability

        Economic Development

        Sustainability/Diversity

## APPENDICES

Appendix A – Commentary on Sustainable land use design and resiliency

Appendix B – Summary and results from 2019 public workshop meetings, surveys and chalkboard

Appendix C – Commentary on potential impacts of Covid-19

Appendix D – October 2020 Joint Workshop summary and directions

Appendix E – Summaries from 2021 working groups

# **INTRODUCTION & EXECUTIVE SUMMARY**

In 2009 the City of DeLand sponsored a program to direct broad-based public input into creating a vision of what the City could be and should aspire to be in 2050. This effort led to the DeLand 2050 report which presented a vision for the DeLand Area including a concise vision statement, a land use concept and more specific guidelines for both land use and transportation. By 2019, more than ten years had passed since the original visioning process was undertaken, and it was appropriate at that point to review inputs and assumptions that led to the vision plan. Beginning in mid-2019, the City staff began the process of gathering information on the accuracy of the 2050 Vision Plan and conducting a series of events and activities to assess the status of the vision plan and to gather public comments on the overall vision planning effort. This report is the summary of the findings and revised recommendations from this assessment effort.

As staff was updating the 2050 Vision Plan, it became apparent that a statement was necessary to remind the workshop participants, that this report was for a vision of what the City residents and Commission wanted to be in 2050. This updated plan will provide guidelines for new development as well as suggestions on how to implement or achieve these guidelines.

This report is to help provide some insight as to how well we have maintained that vision and in doing so will provide City leaders guidance for the next 27 years. It is imperative that we have this ultimate goal (vision) in mind as we make decisions in the present. It is also important to note that because of the length of time this vision covers, periodic review of the goals and guidelines should be undertaken to reaffirm this is the direction we want to be heading or if changes need to be made.

The Vision does not focus on the opinion of the current status of DeLand. The focus is on the City's ultimate goal in 2050. Although it is important to comment and provide input on current events; it is also important to have a vision for the future in order to see how we are making progress in achieving the ultimate goals. It is what the Commission and its citizens desire to see the City evolve into (or maintain). Staff will be looking to find ways to achieve that vision in the coming years. It cannot be done in one day. It must be done over time, as we update all of our plans and studies and complete our capital projects. This report is intended to provide guidance in transforming DeLand into a city that is prepared to confront problems and opportunities that lie ahead, as well as anticipate challenges we have not previously faced. Although, we can only imagine what the City will look like in 2050, our goal is for the City to continue to prosper and have open communication that will contend with any differences the City may encounter.

This visioning effort is intended to continue making DeLand a better place for all who live or visit here, because we want our residents to always be proud to call DeLand home and visitors to continue visiting.



# **SMART GROWTH DIRECTION**

During the 2009 workshops the City Commission decided to use the general Smart Growth principles in combination with the elements of the Smart Growth Initiative of Volusia County as the foundation of the DeLand 2050 Plan. Below are the guiding principles that make up Smart Growth followed by the key elements.

## **Smart Growth Principles**

- Mix land uses — the mixing of land uses (commercial, residential, recreational, educational, public, open space, and others) can encourage foot and bike modes of transportation.
- Take advantage of compact building design — use less land for development. This includes building size as well as parking; land consumption for buildings cannot be used for open space.
- Create housing opportunities and choices — providing quality housing for people of all income levels and age groups.
- Create walkable communities — pedestrian-friendly features range from providing shade for sidewalks to master planning development types.
- Foster distinctive, attractive communities with a strong sense of place — opposite to strip development that does not instill community pride.
- Preserve open space, farmland, natural beauty, and critical environmental areas; provide recreational opportunities, and guide new development into existing communities.
- Provide a variety of transportation options — to help eliminate congestion in the transportation system.
- Strengthen and direct development to existing communities —development directed to communities already served by infrastructure, use resources of existing neighborhoods and maintain value of public and private investment.
- Make development decisions predictable, fair, and cost effective — to be able to meet the future demand for development; the concept must be accepted and endorsed by private sector. Predictability assures developers their projects can be approved.
- Encourage community and stakeholder collaboration in development decisions — concept must be consistent with community's own sense of how and where the growth should happen.

## **Smart Growth Initiative:**

In 2004, a county-wide Smart Growth Implementation Committee was established that reviewed the principles of Smart Growth in relation to the issues facing Volusia County. That committee produced a report that broke the recommendations into seven subject areas or elements (listed below), 15 "keystone" recommendations and 49 additional recommendations that would implement the principles of Smart Growth in Volusia County. The entire report is included in the Smart Growth Workshop notebook and on the City's Planning web page.

## **Key Elements from Smart Growth Initiative Report (Volusia Co.)**

- Protect the Environmental Core
- Develop Livable communities
- Ensure the continued existence of agriculture
- Meet the Infrastructure needs of growth
- Integrate education
- Integrate economic development



# **THE EVALUATION & ASSESSMENT PROCESS**

*There are things that are timeless and things that are timely. Hopefully this update will hit on both of those points — timeless and timely in providing the guidance our residents are looking for.*



The evaluation and assessment process involved a combination of survey tools, research reports and public workshops stretching over most of 2019 and was continued into 2022. Surveys were gathered from several sources, including The National Citizens Survey (NCS), which was conducted in early 2019. The survey covered questions on a variety of issues, including some directly related to the City's long-range development. The NCS survey results were compared with national benchmarks and with the results of a similar survey done for DeLand in 2016. City staff created the "You are DeLand" campaign in 2019 to increase awareness about the update and to offer several survey opportunities for general public input including an on-line survey directed specifically at long range planning issues; a five-question written survey that was distributed at various public meetings; and a chalkboard open-comment opportunity that was located in two public gathering places. While the staff surveys did not have a statistical underpinning like the NCS survey, they nevertheless offered the public an opportunity to comment on issues of general concern and, more specifically, issues of planning interest.

In the late summer of 2019, staff initiated the production of an evaluation and assessment report of the status of the vision plan which resulted in this document, the DeLand 2050 Vision Update. This report provides a summary of the 2050 vision as a brief refresher for those who may not recall all the essential elements of the original vision report. This summary includes an analysis of development trends over the past ten years and a look at the success achieved in implementing the land use plan elements and land use and transportation guidelines. Emerging trends which may have an impact on the future vision decision-making process are also presented.

The information contained in this report became the foundation for the opening presentation at the public workshops conducted in 2019 for the purpose of gathering comments and recommendations on the success of the overall vision. Four workshops were offered over a sixty-day period from mid-October through mid-December, with three workshops being offered on weekday evenings and one workshop on Saturday morning. The workshop format offered a general presentation of the 2050 Vision Plan content, accomplishments, and development trends. Attendees then worked in smaller

groups to discuss the vision plan. Discussion topics including quality of life issues, economic development, land use, and transportation were used as an initial structure for the group discussions. Comments from each breakout group were then transcribed to provide a written record of the comments, opinions and suggestions generated by the attendees.

As the studies and documents were being updated, all future meetings and activities were halted due to the Covid-19 pandemic. To get the process moving again, a joint workshop was held on September 26, 2020 between the Planning Board and the City Commission to provide an update on what has transpired over the past year. The participants offered some comments on what they would like updated, but they did not indicate whether or not the Vision Statement is still an accurate goal to work towards. Their suggestions included:

*The Land Use map that contained broad categories and showed areas for growth was perhaps too general and that better definitions should be presented.*

*The Transportation map provided a good overall framework, but specific projects should be identified and prioritized to accomplish what was depicted.*

*Agreement with the major guidelines presented under land use and transportation.*

*Sustainability is important and should be included as the City updates its plans, including the vision plan.*

*Ensure that we keep economic development as a key component of the vision.*

*Housing is a critical issue and the vision needs to include affordability as well as diversity of type.*

*Develop means of maintaining our recognizable community character (small town appeal, even as we grow) and in particular, the enhancing of our downtown.*

As a result of this joint workshop, two working groups were held virtually to make policy recommendations to help guide staff's effort in updating the vision. The working groups discussed residential density and transportation. A summary of these virtual workshops is contained within the appendix section.



## **GENERAL SUMMARY & KEY FINDINGS**

There were five *major themes* that emerged through the first visioning process in 2010:

1. There was a clear endorsement of the smart growth principles used to develop the draft of DeLand 2050, and the City should continue the DeLand 2050 project with the smart growth principles as the foundation
2. Growth should be focused in already developed areas and in the core portion of the City. Some of these growth areas will be suitable for higher intensity development.
3. For the most part, the areas outside the growth areas should be reserved for environmental protection, open space and recreation or to maintain existing low-density land use patterns, with the exception of a possible transit-oriented development (TOD) near the train station.
4. There will be a need for other modes of transportation to service the area other than cars as more people move into the area and to make efficient use of SunRail.
5. Creating and or preserving sense of place through urban design standards, in particular for downtown and city gateway corridors.

The statements above, as well as the comments from the workshops are generalized. There may be exceptions to these statements based on specific circumstances which is why it is important to complete updates to the DeLand 2050 Vision Plan periodically.

Although 10+ years has passed since the original 2050 Vision Plan was prepared, these five basic themes are still relevant and provide the initial discussions as the City continues to review and update its vision to reflect the current state of the City.

Information gathered from the 2019 public workshop attendees and the survey results generally support the land use concept and transportation plan offered in the Vision 2050 program. At the macro level, the land use categories and the transportation projects from the vision plan seemed to make sense to most of the participants. There was some concern about new development changing the character of existing neighborhoods as new homes expand to the southeast and western sections of the City, but these concerns are more typical of transitional area conflicts than a wholesale disagreement with the vision plan.

It was noted in the workshop presentation that the plan performance has been good at a large-scale level, but there are areas where implementation fell short of the program's intent. These shortfalls were mostly in the areas of housing diversity by type, housing affordability, increased density and intensity in areas supporting Downtown DeLand and along the transit routes, including the need to improve pedestrian and bicycle opportunities. While action has not met expectations in these topic areas, there still

seems to be good support for implementing action to achieve these ends. The survey data supports what was expressed in the workshop sessions.

Themes that were new to the discussion of the plan focused on the need for the City to be more active in sustainability programs and issues that were seen as important to the quality of life in DeLand. Community appearance (building design, landscaping, and tree cover) came up in several sessions. In selected areas, participants thought that increased density and intensity was acceptable including allowing building in the mid-rise (three to five stories) range. For Downtown and planned mixed-use areas design is more important than use. Social equity issues were raised as well.

In several sessions there was discussion about more diversity in the local economy and the need for better quality employment opportunities. In order to encourage new business development and support for existing businesses it was mentioned that access to information and support should be easier to locate. There were also comments about the need and opportunity to support home-based business development. Stetson was noted as a significant employer and was generally noted as an underutilized resource both in terms of a market and as a knowledge center.

As this document is considered an interim progress report ten years into the Vision Plan, a major change in the vision plan direction is not indicated. More effort is needed in implementation in some areas and added emphasis is desired for some topics such as sustainability and urban design. Below is a listing of the key findings discovered during the public engagement program. Most relevant was the preservation of community character.

## **Key Findings From 2019 Public Engagement**

- 2050 Land Use concepts are still valid
- The road and rail concepts of the transportation plan need to be implemented
- Mixed-use development in downtown and transit corridors needs more work
- Diversity in housing type and housing cost is needed
- Infill development in the core of the City neighborhoods should be encouraged
- In the downtown and core areas, design is as important, if not more important than land use
- More effort is needed to create a sustainable community
- Transportation improvements need to stress walking and cycling facilities
- Bus transit is supported and ways need to be found to make it more effective
- Economic development should stress diversity and better-quality employment
- Preservation of community character as defined by the physical environment and the social environment is important across all groups



# **COMMUNITY CHARACTERISTICS**

The Community Character Guidelines section has been added to the report and will include ways to enhance these characteristics.

Many comments from the City Commission, participants and residents centered around how they like DeLand's "small town feel", but no one has a specific definition. Also, as the City grows it should be noted there really is not a small town anymore, but rather a small City. The residents and Commission do provide characteristics that they like about DeLand. These characteristics are listed herein and will be used to create guidelines for the purpose of protecting the character of DeLand. Newer residential areas that are located remotely from the "character core" probably have little impact on the perception of community character which may be why the public is so opposed to new development. Is there a size of project the Planning Board and City Commission will accept rather than large projects?

Focusing on the term "small town feel" seems to imply that adding people to our community or growth in general is not wanted. This line of thinking is not realistic and the focus should be on maintaining the character of DeLand that attracted residents in the first place and use as guides for how we achieve our 2050 Vision.

## **Community Character**

Develop a "formula" for preserving that community character. Most observations point towards downtown DeLand, Stetson University and the residential neighborhoods that are close or within these areas as creating the character of DeLand that everyone wants to preserve ("little big town"). In order to develop a "formula" for preserving the small town community character, some key attributes must be defined.

Small town character – work needs to be done to develop a formula to determine what the characteristics are that actually defines the City as it exists now, and not the number of people; with a population of nearly 40,000, DeLand is not a small town anymore. Characteristics such as:

- Historic buildings, downtown and surrounding residential, our history;
- Downtown – entertainment, small business, residential, art, etc.;
- Friendly and Helpful residents;
- Inclusive;
- Activities - Parades on Main, events;
- Grid street pattern – physical makeup of the City;

- Civic facilities - includes government buildings, parks, and recreational opportunities;
- College - atmosphere and events;
- Central high school creates social network;
- Local businesses;
- Residential features - unique housing styles, varying types and densities

Shown from the list above, the “small town feel” is concentrated around the City’s original boundaries or core area. The suburban areas are not often included when residents talk about what they like about DeLand.

## Guidelines

| <p style="text-align: center;"><b>Community Character Guidelines</b><br/>Existing Guidelines<br/>(2011)</p>                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Create a <b>sense of place</b> by protecting the small-town atmosphere, lifestyle, convenience, promotion of historic character and scale of buildings. Protect the important aspects of quality-of-life by having convenient shopping and promoting appearance of buildings while retaining open spaces and trees. Use design standards to preserve sense of place and to improve <b>gateway</b> appearances.</p> |
| <p>Encourage new development to reflect and protect the <b>historic character</b> of the core community by complementing the historic downtown, Stetson University, neighborhoods, other historic areas.</p>                                                                                                                                                                                                          |
| <p style="text-align: center;"><b>Community Character Guidelines</b><br/>New Guidelines<br/>(2020)</p>                                                                                                                                                                                                                                                                                                                |
| <p>Create a sense of place by protecting the small town atmosphere, lifestyle, convenience, and historic character of DeLand. Maintain the current scale of buildings and not allow new construction to overshadow existing architecture. Protect the important aspects of quality-of-life by having convenient shopping, promoting appearance of buildings while retaining open spaces and trees.</p>                |
| <p>Protect the local businesses and the historic portion of downtown so it remains a key component of the DeLand region.</p>                                                                                                                                                                                                                                                                                          |
| <p>Creation or designation of neighborhoods – define which ones are to be protected and which ones to be improved; create policies that are neighborhood specific</p>                                                                                                                                                                                                                                                 |
| <p>Maintain community character through quality design. Also design of buildings will be important as more non-residential is built in DeLand, maybe residential should now be included.</p>                                                                                                                                                                                                                          |
| <p>The City will continue to sponsor and support special events.</p>                                                                                                                                                                                                                                                                                                                                                  |



# Land Use

Whether land is used for preservation and open space or for urban development, it is planned that way. Land is not preserved because no one wants to develop it; land conservation is thoughtfully planned, just as urban areas are planned around the world. As new people and businesses move into the City every day, we must plan ahead how we want to grow.

## Guidelines

|                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Land Use Guidelines</b><br>Existing Guidelines<br>(2011)                                                                                                                                                                                                                                                                                                                                                                   |
| Create activity and neighborhood centers to encourage <b>mixed use</b> and walkability. Encourage mixed land uses and reduce isolated and single form land uses in order to reduce the number of miles traveled by autos.                                                                                                                                                                                                     |
| Concentrate development at the core of the City or at <b>transit-oriented</b> sites and corridors. The <b>urban core</b> is the key area to focus development, maintaining a strong job base and taking advantage of existing infrastructure by guiding new development into these areas. Locating higher intensity development along select corridors or major centers will encourage transit and lessen traffic congestion. |
| <b>Land Use Guidelines</b><br>New Guidelines<br>(2020)                                                                                                                                                                                                                                                                                                                                                                        |
| Accept styles of <b>housing</b> other than single family dwellings to accommodate the shift in demographics where there will be fewer households with children and provide for households with adult children or aging parents and various income levels. <i>(modified)</i>                                                                                                                                                   |
| Find ways to create, preserve or protect <b>open space</b> , agriculture, natural beauty, and critical environmental areas while providing <b>recreational</b> opportunities for area residents to enjoy these features. <i>(modified)</i>                                                                                                                                                                                    |
| Encourage new growth to locate near existing developed areas through infill of undeveloped lands and the reuse or better use of existing buildings.                                                                                                                                                                                                                                                                           |

# Transportation

Refocus from road building to alternative modes of transportation (i.e., transit, Sun Rail), by developing or advocating for transportation and mobility options that support economic activity. Developing a transportation system that includes all modes of transportation will lessen congestion and make the community safer because roads alone will not handle the needs of the community.

## Guidelines

| Transportation Guidelines<br>Existing Guidelines<br>(2011)                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Keep connected with <b>regional transportation network</b> , primarily <b>SunRail</b> and I-4 through <b>links</b> from the local network and a strong connection to downtown.                                                                                                                                                                                                                                                                                            |
| Encourage walking and <b>walkable</b> communities by creating neighborhood business centers with a mix of uses and improving pedestrian atmosphere through safety, building design and aesthetic measures.                                                                                                                                                                                                                                                                |
| Create <b>connectivity</b> by allowing people the ability to move between major developments without necessarily entering the major road network.                                                                                                                                                                                                                                                                                                                         |
| At identified locations, provide that new development promotes transit styled villages and transit planned corridors; such as the commuter rail station area developing as a Transit Oriented Development (TOD).                                                                                                                                                                                                                                                          |
| Transportation Guidelines<br>New Guidelines<br>(2020)                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Locate higher intensity along select corridors or within major centers to encourage transit and to lessen traffic congestion. Establishing the high intensity corridors or centers will not degrade existing residential. Provide that new development promotes <b>transit</b> styled villages and <b>transit planned corridors</b> at identified locations, such as the commuter rail station area developing as a Transit Oriented Development (TOD). <i>(modified)</i> |
| Develop an interconnected transportation system to manage traffic to prevent <b>congestion</b> beyond acceptable levels. <i>(modified)</i>                                                                                                                                                                                                                                                                                                                                |



# ECONOMIC DEVELOPMENT/SUSTAINABILITY

An additional set of guidelines has been added to the 2050 Vision Plan that involve economic development and sustainability.

## Economic Development

The DeLand area is not an isolated, independent jurisdiction, but part of a large interconnected metropolitan region. These regional influences will impact how the DeLand area will grow. Learning how to interact and become involved in the region will be crucial as the City approaches 2050. These guidelines will help with decisions on how the DeLand area will develop.

### Guidelines

| <b>Economic Development Guidelines</b><br>Existing Guidelines<br>(2011)                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Concentrate development in the urban core region or at transit oriented sites and corridors. The urban core is the key area to focus development, maintain a strong job base and take advantage of existing infrastructure. |
| Continue to manage the <b>airport</b> to increase freight capacity and private planes that support the industrial parks.                                                                                                    |
| <b>Economic Development Guidelines</b><br>New Guidelines<br>(2020)                                                                                                                                                          |
| Direct most large commercial and industrial development to downtown and the designated employment centers.                                                                                                                  |
| Support opportunities to locate convenience-related commercial uses close to residential areas. <i>modified</i>                                                                                                             |
| Support plans and programs to assist existing <b>business expansion</b> as well as new business development.                                                                                                                |
| Reinvestment in underserved areas as outlined in the City's two <b>opportunity zones</b> .                                                                                                                                  |

## Sustainability/Diversity

A healthy local economy relies heavily on its ability to be prepared for, and respond to, the everyday stresses put upon it, as well as the unforeseen stresses that arise. However, the resiliency of our community is not developed overnight, nor is it done in a vacuum. Resiliency is built through cooperation between the City and the community that it serves. This cooperation is used as our very own toolbox, using diverse methods to guide development to withstand the obstacles that lie ahead of us, while preserving its character and charm for future generations to come.

### Guidelines

| Sustainability/Diversity Guidelines<br>Existing Guidelines<br>(2011)                                                                                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Become a <b>sustainable</b> community by having a sustainable growth policy requiring the wise use of fiscal and natural resources. The City should be designed to be “greener” through energy and water conservation.                                           |
| Oppose new strip development that does not instill community pride and encourage the rehabilitation of the older commercial areas.                                                                                                                               |
| Encourage new development to reflect and protect the historic character of the core community by complementing the historic downtown; Stetson University; neighborhoods; other historic areas.                                                                   |
| Sustainability/Diversity Guidelines<br>New Guidelines<br>(2020)                                                                                                                                                                                                  |
| Take advantage of <b>compact</b> or “ <b>cluster</b> ” <b>development</b> design that uses less land for building size as well as parking. Appropriate locations for cluster or compact development are dependent upon neighborhood qualities.                   |
| Use <b>design standards</b> to preserve sense of place and to improve gateway appearances.                                                                                                                                                                       |
| Support growth policies that result in wise use of resources.                                                                                                                                                                                                    |
| Consider environment and water conservation factors when reviewing or designing projects.                                                                                                                                                                        |
| Reuse of historic structures eliminates the need to dispose of building materials while preserving the City’s story.                                                                                                                                             |
| Sustainable practices such as energy conservation, solar, electric charging stations throughout town and in homes, shade will make the city more desirable for people choosing a new home. Climate change impacts must be addressed locally as well as globally. |



# DeLand 2050 Land Use Concept Map

The workshops and surveys were used to produce this revised draft of the DeLand 2050 Land Use map. The map presents the general land use pattern for the DeLand region in 2050. The development categories and overlays are overly expansive to provide a generalized land use pattern. The City's Comprehensive Plan and Zoning regulations will ultimately provide the needed details to help guide land use decisions. The original concept map is provided for comparison elsewhere in this report.

The map contains four broad categories that allow different densities and types of development and four overlays with specific functions. The categories and overlays are described below. These same categories and overlays are also used in the final map design. The categories cover large expanses and will ultimately be broken down into localized or neighborhood plans that display specific uses that reflect the intent of the specific category or overlay.

## **DeLand 2050 Map Categories:**

**Traditional City Center (Light Green)** – This category covers the original City limits and is the area anticipating a lot of growth either from redevelopment or infill development. This area includes the downtown and the surrounding area that would transform as the downtown expands. Currently there is a mix of uses scattered throughout the Traditional City Center from commercial, parks, single and multi-family residential. Policies will be developed to allow new growth and development while protecting the existing character of the downtown.

**Sustainable Growth Zone (Orange)** – Part of the urban area where the majority of the new growth will take place. The boundary shown on the map corresponds closely to the boundary of the Greater DeLand Area (GDA). This boundary was chosen, because since the 1970's, the GDA was slated to be served with urban services. Note: *This category could also include the southeast area out to I-4, which encompasses Victoria Park due to its desirable access to the interstate.*

**Gateways/TOD Corridors (Pink)** – Transit Oriented Development (TOD) areas have been placed along several roadways and the area between the commuter rail station and downtown. A TOD is an area that will encourage higher density and a mixture of uses, in order to make a transit system more efficient for the DeLand area. These areas will see a transition from the current development pattern to a more transit friendly pattern, over time.

**Limited Growth Zone (Yellow)** - Retains the existing zoning in place, and may allow increases in density if it conforms to specific criteria. Such criteria may include: appropriate location, retain extra open space, protection of existing uses, availability of existing infrastructure (without expansion or extensions), contributions to sustainability, and increases economic opportunities (not residential).

**I-4 Corridor (Lavender)** – Contains typical interchange uses and other intense uses that can utilize their proximity to the interstate.

**Rural Growth Zone (Gray)** – Provides for areas that are expected to grow in a more rural manner as well as maintaining the current zoning in place.

**Public Conservation Lands (Dark Green)** – Designates areas that are currently under public ownership in conservation easements.

### **DeLand 2050 Map Overlays:**

There are also two overlays that indicate certain areas for specific types of mixed-use development:

**Overlay 1** – Employment Center, designated and enclosed by a blue line, is an overlay that emphasizes business or industrial uses, rather than residential. Criteria could be developed to protect business development and keep out incompatible residential uses.

**Overlay 2** – SunRail Activity Area, designated and enclosed by a red line, is an overlay that emphasizes an intensive mix of uses that are compatible with the SunRail station, and also includes residential.

### **Categories not displayed on the map**

Neighborhood Center, is an area that contains small mixed-uses that will provide primarily daily goods and services for nearby residents. Although there is no symbol shown on the map, these centers could be placed at many locations where the community would want to establish a neighborhood center.

Special Districts, are areas that have unique characteristics where the City would like to encourage the current use and allow for expansion of compatible uses. Examples of these Special Districts are the area around Stetson University, An Artists' Village, marinas, and rural clusters. Each one of these districts will have unique issues, so one set of regulations will not be appropriate. Special districts will be individually named and specific regulations will be developed to help maintain the uniqueness of that particular district as they become identified.

Another example of a Special District is the downtown and the surrounding area that would transform as the downtown expands. The uniqueness of a downtown requires individual attention to how all the uses and structures fit into the space. Policies will be



developed to allow new growth and development while protecting the existing character of the downtown.

## Definitions

*Complete streets* – a major road corridor that includes separate bicycle and pedestrian ways; safely and efficiently accommodates transit users, bicyclists, pedestrians, and motorists; and provides easy access to adjacent land uses.

*Cluster Development* - generally sites housed on smaller parcels of land, while the additional land that would have been allocated to individual lots is converted to common shared open space for the subdivision residents. Typically, road frontage, lot size, setbacks, and other traditional subdivision regulations are redefined to permit the developer to preserve ecologically sensitive areas, historical sites, or other unique characteristics of the land being subdivided.

*Greater DeLand Area (GDA)* – created in 1973 by the State legislature and defined the area for future annexations and the provision of water and sewer by the City.

*Joint Planning Agreements (JPA)* – agreement between two local governments to develop a plan for a specific area that both can follow.

*Multi-Modal Transportation District* – A multimodal transportation district facilitates the use of multiple modes of transportation, leading to a reduction in automobile use and vehicle miles traveled.

*SunRail* – Central Florida's name for the commuter rail network which, as of May of 2023, has a connection to the DeLand Station.

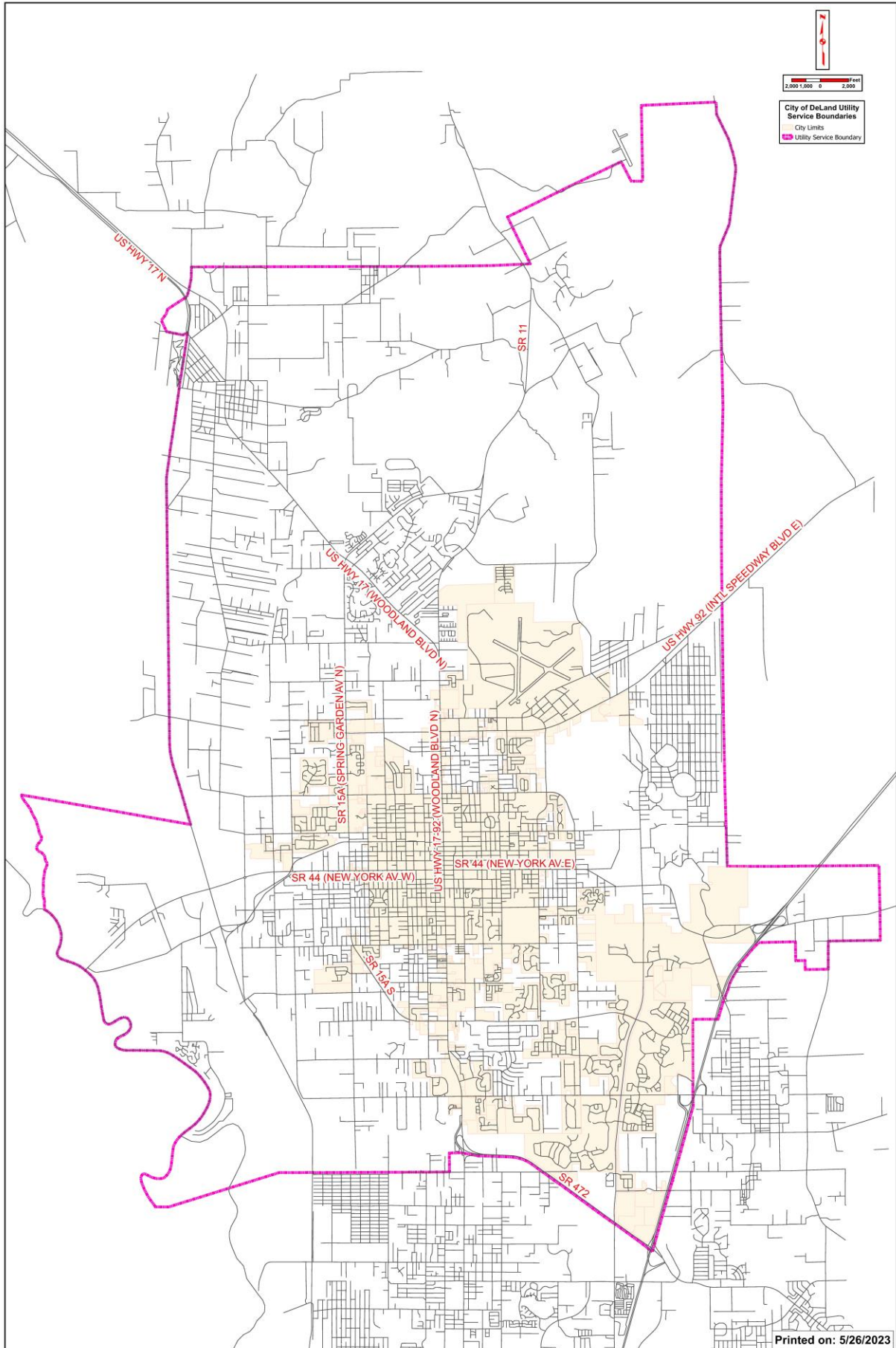
*Sustainable* – A sustainable city can feed itself on the surrounding countryside with minimal reliance on other regions or countries and powers itself with renewable sources of energy. It seeks to create the smallest possible ecological footprint and to produce the lowest quantity of pollution possible; to use land efficiently, recycle materials and convert waste to energy.

*Transit-Oriented Development (TOD)* - is a type of development that is either located around mass transit centers or along corridors that are developed at a density and intensity that makes it feasible to be served by public transportation. A TOD helps create compact, walkable communities that provide a quality of life without complete dependence on a car for mobility within the DeLand area.

*Utility Service Area* – area served by City of DeLand’s water and sewer services through a joint planning agreement with Volusia County.

*Walkable* – refers to an area that encourages walking by providing safe and convenient routes to a variety of uses.





## Guiding DeLand to Sustainability



- Potential Areas for Future Activity:**

- <sup>a</sup> Refer to DeLuca (2010) workshop handout's summary for description of categories and overlap.



This map is a graphic representation and is not intended to be used for any engineering or surveying purposes. The City of Deland is not liable for any decisions made on the basis of this map or on the information contained within the map.

Prepared by: City of Deland Planning Dept.  
November 28, 2011

N

1 inch = 2,300 feet



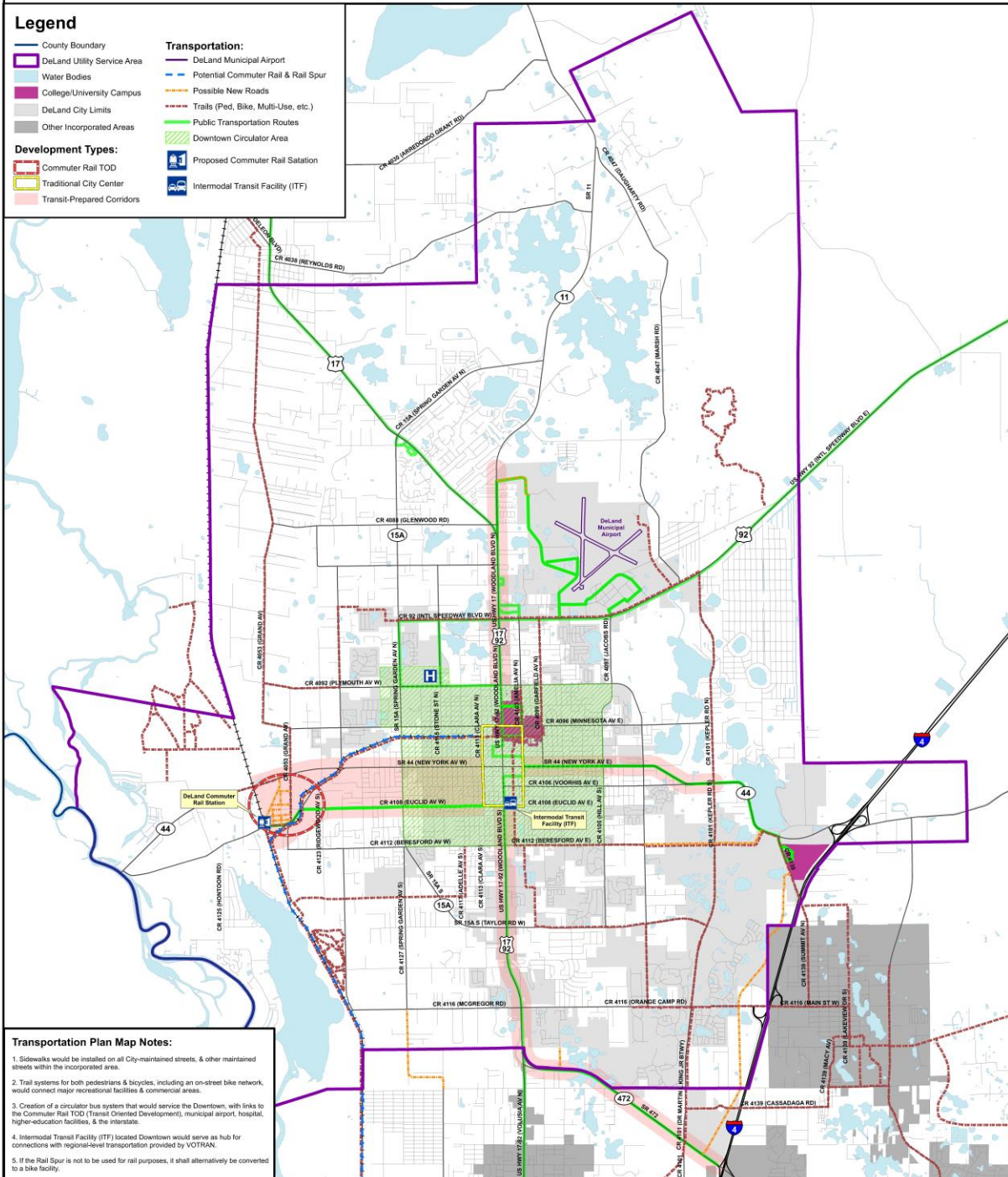
# DeLand 2050

Guiding DeLand to Sustainability



## Legend

|  |                                     |
|--|-------------------------------------|
|  | County Boundary                     |
|  | DeLand Utility Service Area         |
|  | Water Bodies                        |
|  | College/University Campus           |
|  | DeLand City Limits                  |
|  | Other Incorporated Areas            |
|  | Development Types:                  |
|  | Commuter Rail TOD                   |
|  | Traditional City Center             |
|  | Transit-Prepared Corridors          |
|  | Transportation:                     |
|  | DeLand Municipal Airport            |
|  | Potential Commuter Rail & Rail Spur |
|  | Possible New Roads                  |
|  | Trails (Ped, Bike, Multi-Use, etc.) |
|  | Public Transportation Routes        |
|  | Downtown Circulator Area            |
|  | Proposed Commuter Rail Station      |
|  | Intermodal Transit Facility (ITF)   |



## Transportation Plan Map Notes:

1. Sidewalks would be installed on all City-maintained streets, & other maintained streets within the incorporated area.
2. Trail systems for both pedestrians & bicycles, including an on-street bike network, would connect major recreational facilities & commercial areas.
3. Creation of a circulator bus system that would service the Downtown, with links to the Commuter Rail TOD (Transit Oriented Development), municipal airport, hospital, higher-education facilities, & the interstate.
4. Intermodal Transit Facility (ITF) located Downtown would serve as hub for connections with regional-level transportation provided by VOTRAN.
5. If the Rail Spur is not to be used for rail purposes, it shall alternatively be converted to a bike facility.



This map is a graphic representation of all urban transportation systems within the City of DeLand. It is not intended to be used for engineering, planning, or other purposes. The City of DeLand is not liable for any damages or losses arising from the use of this map or the information contained herein.

Prepared by: City of DeLand Planning Dept.  
May 6, 2011

## 2050 Transportation Plan Map



1 inch = 2,300 feet



**CITY OF DELAND**  
**WORKSHOP OF THE CITY COMMISSION**  
**SEPTEMBER 26, 2022 AT 5:30 PM**  
**CITY HALL, COMMISSION CHAMBERS**  
**120 SOUTH FLORIDA AVENUE**

**AGENDA**

**CALL TO ORDER**

**ROLL CALL**

**NEW BUSINESS**

1. 2050 Vision Plan Update Workshop.

This is a City Commission workshop concerning the updating of the 2050 Vision Plan.

**CITY COMMISSION**

**ADJOURNMENT**

The DeLand City Commission holds its regular meetings on the first and third Mondays of each month at 7:00 p.m. in the DeLand City Commission Chambers, 120 South Florida Avenue, DeLand. Notice of special meetings, workshops, changes in dates, times or locations are provided by separate Public Notices, which are posted at City Hall and on the City's web site.

The City of DeLand may take action on any matter during this meeting, including items that are not set forth within this agenda.

Public participation is encouraged on any matter on the agenda. If you desire to be recognized by the Mayor, please fill out a Speaker's Card and present it to the City Clerk.

Minutes of the DeLand City Commission meetings are not transcribed verbatim. If any person decides to appeal a decision made by the City Commission with respect to any matter considered at a public meeting or hearing, he/she will need a record of the proceedings including all testimony and evidence upon which the appeal is to be based. To that end, such person will want to ensure that a verbatim record of the proceedings is made by a court reporter, at the person's own expense.

In accordance with the American Disabilities Act, persons needing a special accommodation in order to participate in the proceedings should notify the City Clerk's Office at least 48 hours in advance of the meeting: 626-7132.

Assisted Listening System receivers are available for the hearing impaired, and can be obtained from the City Clerk.

If you wish to obtain information regarding the City Commission's Agenda, please call the City Clerk's Office: 626-7132.



We respectfully request that all pagers and cell phones be turned OFF during City Commission meetings.

Electronic Information! City Commission agendas and short form minutes are now available on the City's web page: [www.deland.org](http://www.deland.org).

**CITY OF DELAND**  
**Request for Commission Action**  
**September 26, 2022**

**SUBJECT:** 2050 Vision Plan Update Workshop.

**DEPARTMENT:** Planning

**PREPARED BY:** Mike Holmes, Planning Director

**ATTACHMENTS:** Beyond Today Workshop Presentation , DeLand 2050 Final Report

**APPROVED BY:** Michael Pleus, City Manager, September 21, 2022

---

**SUMMARY/HIGHLIGHT:**

On November 11, 2011, the City Commission adopted the 2050 Vision Plan for DeLand. Staff has been referring to this document as applications are reviewed and presented to the Planning Board and the City Commission. Since it is a vision that goes out over 40 years (at the time of approval), over the past 11 years trends and conditions have changed that may impact the Plan. Therefore, staff initiated a review of the plan in 2019 to see if any updates were needed. The 2019 Public Engagement program included public workshops, surveys and interviews to receive input from our residents. The residents were asked if the goals and vision were still the same as they were in 2011. As staff was preparing the update, Covid-19 created a pause on many public events, thus, for all practical purposes stopping our update effort. After the public meetings were halted, there were workshops held with the City Commission and Planning Board in 2020 as well as discussions with several working groups to provide additional insight as to how to update the vision. The update will explore the varying influences that have impacted, not just DeLand but nationally as well.

Tonight's presentation is to help initiate discussion with the City Commission to provide staff with direction for completing the 2050 Vision Plan update. Although currently there are many different influences on our city, the primary discussion needed for the update is to ensure our 2050 vision has remained unchanged or are there adjustments that need to be made. The vision plan should reflect what is desired for the City of DeLand in 2050 and less to do with current events, which is why we are referring to this workshop as "Beyond Today". The overall vision or goals is what is important, with the steps to get there to be developed after the vision is re-established.

The original 2050 Vision Plan is attached for reference. Also, the workshop's PowerPoint presentation is included as an attachment as well.

**STRATEGIC PLAN FOCUS AREA/ACTION STEP:**

N/A

**SUSTAINABILITY:**

N/A

**FISCAL IMPACT:**

N/A



**RECOMMENDATION:**

The Planning Department requests that the City Commission provide guidance on updating the 2050 Vision Plan.

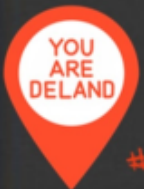
**BACKGROUND/DISCUSSION:**

N/A

# DELAND 2050 VISION



UPDATE DISCUSSION – BEYOND TODAY  
SEPTEMBER 26, 2022



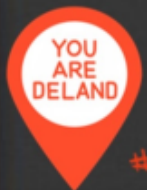
#YouAreDeLand

*What is your vision for DeLand?*



# TODAY'S WORKSHOP AGENDA

- INTRODUCTION
- REVIEW OF CURRENT VISION PLAN
- KEY FINDINGS FROM PUBLIC INPUT
  - PUBLIC ENGAGEMENT 2019
  - WORKSHOPS & WORK GROUPS
- COMMISSION DISCUSSION & DIRECTION
- NEXT STEPS



#YouAreDeLand

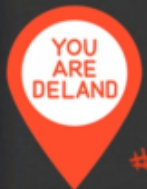
*What is your vision for DeLand?*

# INTRODUCTION

BEYOND TODAY – ARE WE STILL HEADING TO THE SAME VISION FOR 2050 WE CREATED IN 2010?

VISION NEEDS TO BE A “STATEMENT” WITH A SET OF GOALS THAT DESCRIBES WHAT WE WANT DELAND TO LOOK LIKE IN 30 YEARS

HOW WE GET THERE COMES LATER



#YouAreDeLand

*What is your vision for DeLand?*

# VISION STATEMENT:

*DELAND'S FUTURE WILL ALLOW GROWTH WHILE PRESERVING HISTORICAL RESOURCES AND NATURAL AREAS, ENCOURAGING BOTH NEW DEVELOPMENT AND REDEVELOPMENT IN THE CORE CITY AREA (GREATER DELAND AREA), ESTABLISHING MIXED- USE CENTERS, SUPPORTING ALTERNATIVE MODES OF TRANSPORTATION AND PROVIDING A DIVERSE AND STRONG ECONOMY, THAT WILL RESULT IN A MORE LIVABLE AND SUSTAINABLE COMMUNITY.*



#YouAreDeLand

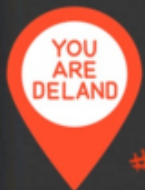
*What is your vision for DeLand?*

*"DELAND 2050"*

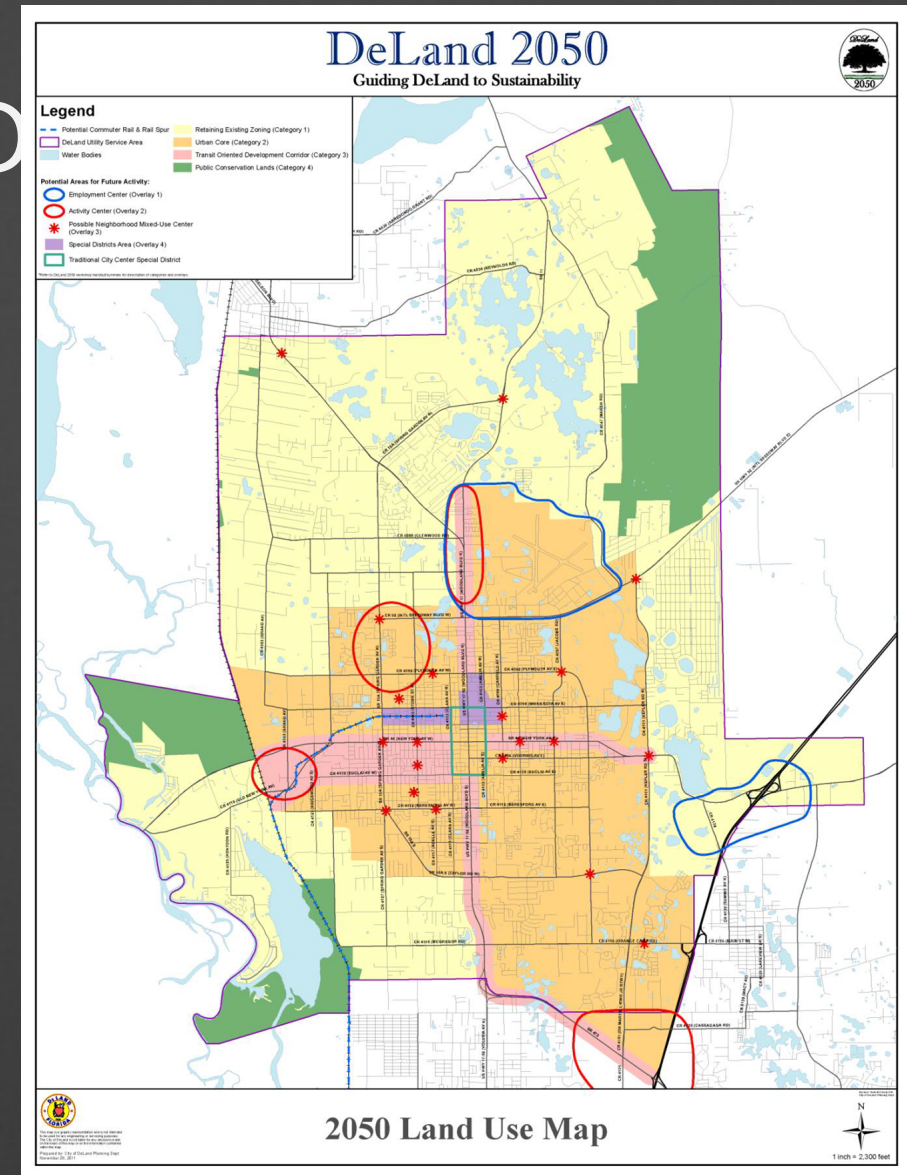


# SUMMARY OF 2050 VISION LAND USE

- BROAD CATEGORIES
- SHOWS AREAS AND RANGES OF GROWTH



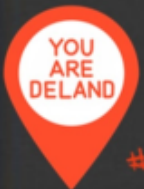
#YouAreDeLand



What is your vision for DeLand?

# LAND USE GUIDELINES

- Become a **sustainable** community by having a “greener” growth policy requiring the wise use of fiscal and natural resources.
- Create activity and neighborhood centers to encourage **mixed use** and walkability to reduce the number of miles traveled by autos.
- Concentrate development at the core of the City or along **transit-oriented** corridors. The **urban core** is the key area to focus development, by taking advantage of existing infrastructure. This will help encourage transit and lessen traffic congestion.



#YouAreDeLand

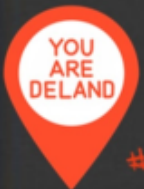
Accept styles of **housing** other than single family dwellings to accommodate the shift in demographics.

*What is your vision for DeLand?*



## LAND USE GUIDELINES (CONT)

- Preserve farmland, natural beauty, and critical environmental areas; while providing **recreational** opportunities, as well as parks and **green spaces** for residents.
- Create a **sense of place** by protecting our community character, lifestyle, convenience, historic character and scale and appearance of buildings. Use design standards to preserve sense of place and to improve **gateway** appearances.
- Encourage new development to reflect and protect the **historic character** of the core community by complementing the historic downtown, Stetson University, neighborhoods, other historic areas.



#YouAreDeLand

*What is your vision for DeLand?*



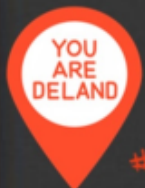
# SUMMARY OF 2050 VISION TRANSPORTATION

TOD's

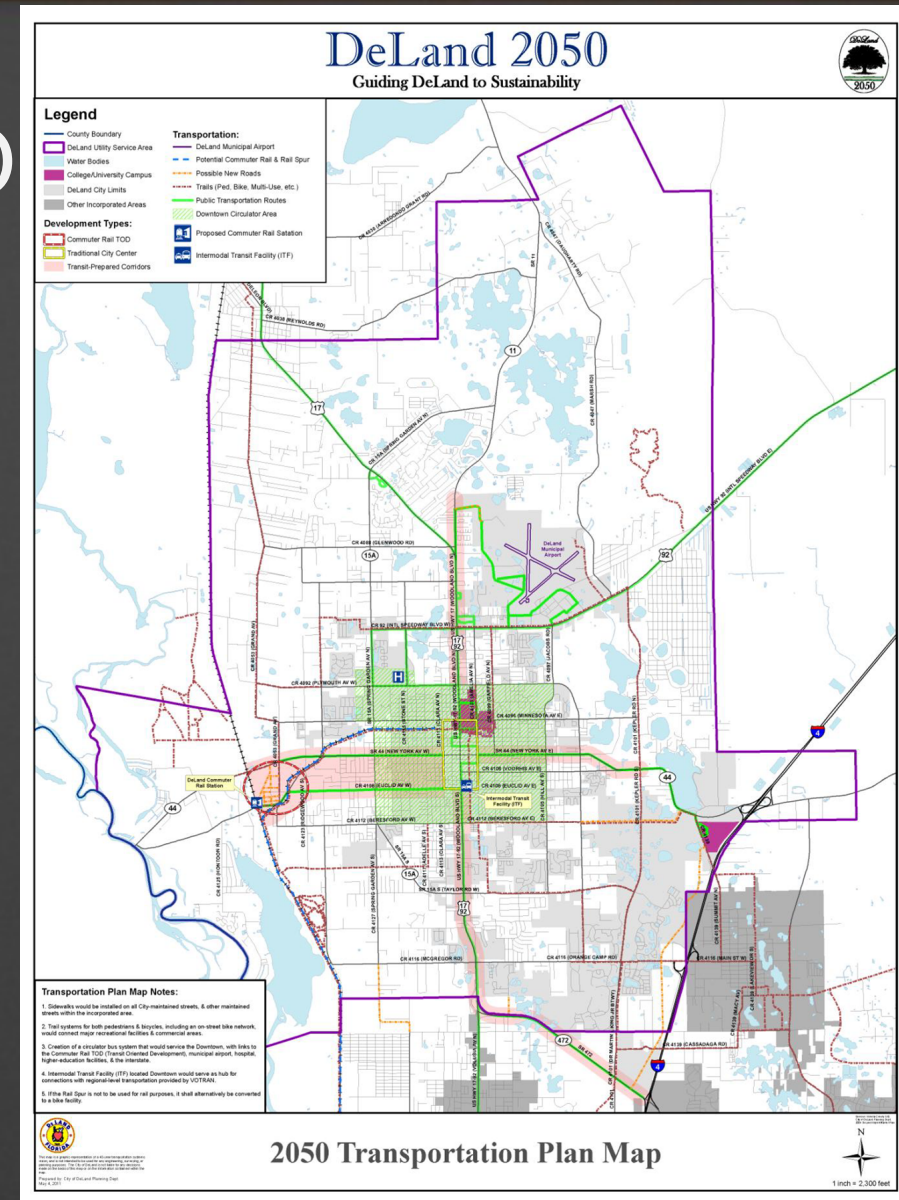
- Centers
- Corridors

MODES

- Vehicles
- Trails
- Transit



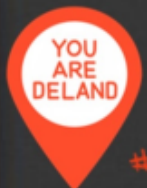
#YouAreDeLand



What is your vision for DeLand?

# TRANSPORTATION GUIDELINES

- Keep connected with **regional transportation network**, primarily **SunRail** and I-4.
- Provide that new development promotes **transit** styled villages or **transit planned corridors** at identified locations.
- Develop a transit **circulator** to serve downtown and/or localized routes that provide connection to the regional system.
- Continue to manage the **airport** to increase freight capacity and private planes that support the industrial parks.



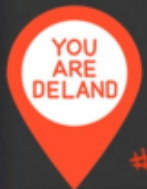
#YouAreDeLand

*What is your vision for DeLand?*



# TRANSPORTATION GUIDELINES (CONT)

- Encourage walking and **walkable** communities by creating neighborhood business centers with improved pedestrian safety, building design and aesthetic measures.
- Encourage **biking** by creating a complete network with trails, lanes, and on-road routes.
- Create **connectivity** by allowing people the ability to move between major developments without necessarily entering the major road network.
- Develop transportation system to manage traffic to prevent **congestion** beyond acceptable levels.



#YouAreDeLand

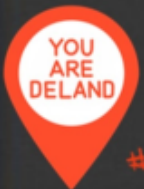
*What is your vision for DeLand?*



# 2019 PUBLIC ENGAGEMENT - KEY FINDINGS

## GENERAL

- 2050 land use concepts are still valid
- More effort is needed to create a sustainable community
- Economic Development should stress variety and better-quality employment



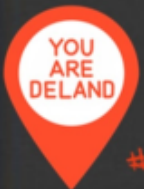
#YouAreDeLand

*What is your vision for DeLand?*

# KEY FINDINGS (CONT)

## LAND USE

- Diversity in housing type and housing cost is needed
- Infill development in core city & neighborhoods needs to be encouraged
- Preservation of community character as defined by the physical environment and the social environment is important across all groups.
- In downtown & core areas, design is as important or more important than land use



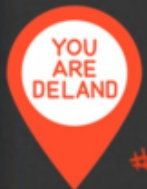
#YouAreDeLand

*What is your vision for DeLand?*

## KEY FINDINGS (CONT)

### TRANSPORTATION

- The road & rail concepts of the transportation plan need to be implemented
- Transportation improvements need to stress walking and cycling facilities
- Bus transit is supported and ways need to be found to make it more effective
- Mixed-use development in downtown and transit corridors needs more work



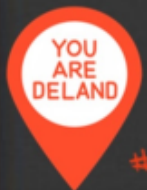
#YouAreDeLand

*What is your vision for DeLand?*



# POLICY DISCUSSION BY COMMISSION

- Are the key findings listed above still relevant and do they represent the community sentiment today?
- How do we define community character?
- How will we address affordable housing, given the recent concerns regarding density and smaller lots? Are incentives such as density bonuses, small lots, and small house sizes desirable.
- Where do we want new development?

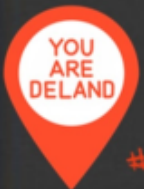
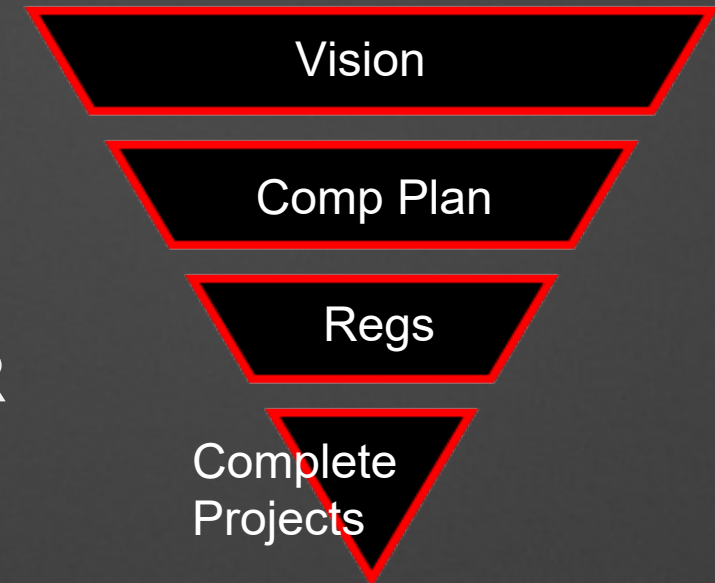


#YouAreDeLand

*What is your vision for DeLand?*

# NEXT STEPS

- PLACE SURVEY ON WEB FOR RESIDENTS TO RESPOND
- REDRAFT OF 2050 VISION PLAN PRESENTED TO COMMISSION
- FINAL VERSION TO COMMISSION FOR ADOPTION
- DEVELOPMENT OF IMPLEMENTATION PROGRAM

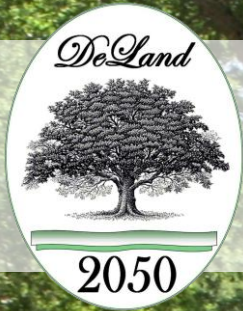


#YouAreDeLand

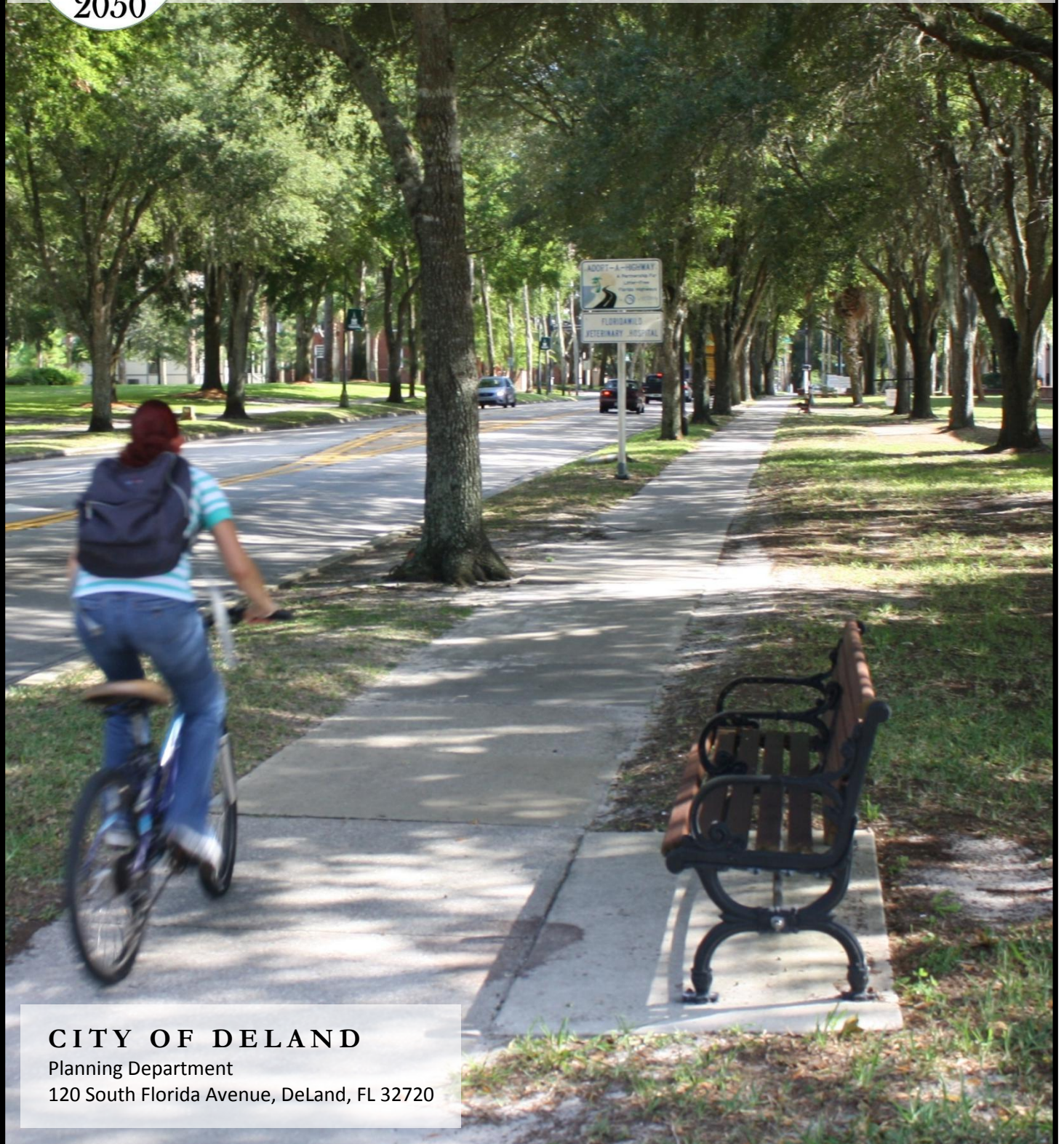
*What is your vision for DeLand?*







# DeLand 2050



## CITY OF DELAND

Planning Department

120 South Florida Avenue, DeLand, FL 32720





# DeLand 2050

## Table of Contents

|                                                       |           |
|-------------------------------------------------------|-----------|
| <b>I. Introduction to DeLand 2050</b>                 | <b>1</b>  |
| <b>II. Executive Summary</b>                          | <b>5</b>  |
| A. Purpose                                            | 5         |
| B. Public Comments                                    | 6         |
| C. Land Use Plan 2050 (includes map)                  | 6         |
| D. Transportation Plan 2050 (includes map)            | 10        |
| <b>III. Land Use Plan 2050</b>                        | <b>15</b> |
| A. Overview                                           | 15        |
| B. DeLand 2050 – Initial Concept (includes map)       | 18        |
| C. Generalized Environmental Resources (includes map) | 23        |
| D. Public Comments                                    | 25        |
| E. DeLand 2050 (includes map)                         | 26        |
| F. DeLand 2050 – Guidelines for Implementation        | 30        |
| <b>IV. Transportation Plan 2050</b>                   | <b>33</b> |
| A. Transportation Elements from Original DeLand 2050  | 33        |
| B. Public Comments                                    | 34        |
| C. Transportation Plan – DeLand 2050 (includes map)   | 37        |
| D. Transportation Guidelines                          | 40        |
| <b>Attachments</b>                                    | <b>44</b> |
| Definitions                                           | 44        |
| Resolution No. 2011-87                                | 45        |

Adopted November 21, 2011





# DeLand 2050

## DeLand 2050 Introduction & Purpose

Through the years, there have been numerous discussions as to what the City Commission and Planning Board envision for developing various sections of the City. The Strategic Plan provides some guidance such as gateway aesthetics, sustainability, industrial uses at the airport or more residential in the downtown. Other development scenarios were discussed during various meetings through the years, but nothing was formalized. It is one thing to say “keep DeLand’s small town feel”; but exactly how does a community keep that feeling as the City and the surrounding area continue to grow? The population of the City is already over 27,000 people, with more moving in each year. Developing a framework to guide this growth will become very important as time goes on and the City is faced with new development proposals.

In 2009, the City of DeLand Planning Board and City Commission jointly held four smart growth workshops, to develop a draft of the 2050 Vision for the DeLand area. During the 2009 workshops it was decided to use the Smart Growth principles as the foundation of the DeLand 2050 Plan. The principles of Smart Growth were used in combination with the elements of the Smart Growth Initiative of Volusia County, as well as sustainability concepts in the development of the draft DeLand 2050 Vision.

The City Commission asked that the draft of the DeLand 2050 Vision be presented to the community to seek their input. The Commission wished to include input from residents living in the unincorporated portion of the City water and sewer service area; therefore, the County was invited to participate in the public participation process. At a meeting on March 18, 2010, the County Council agreed to participate. Stetson University also assisted by facilitating the public participation process.

The City visioning process asked what kind of city its citizens would like to see in 2050 and how sustainability can be a part of that vision. Because it can take years to successfully implement a plan or vision in order for it to be successful, the City must start looking ahead towards 2050 now, if the vision is to be realized. The following report presents this vision.



The following statement was created to guide the entire visioning endeavor.

**VISION STATEMENT:**

*DeLand's future will allow growth while preserving historical resources and natural areas, encouraging both new development and redevelopment in the core city area (Greater DeLand Area), establishing mixed use centers, supporting alternative modes of transportation and providing a diverse and strong economy, that will result in a more livable and sustainable community.*

The public participation program included a schedule of six workshops held throughout the DeLand area over a two month period. A web page was created to allow widespread public review of relevant materials and the completion of an on-line survey to provide their input if they could not attend one of the workshops. Citizens also sent comments via email directly to staff or through the question and answer program on the City's web page. Any email that was received was incorporated into the final set of comments and included in the presentation of the results of the community input. The results of the public participation program are presented in the "Vision for the City of DeLand, Summary Report for Public Involvement October – November 2010." This report is located on the City's Planning web page.

The public presentations and subsequent completed surveys provided the City with valuable insight as to how the community would like to see the City grow in the future. There were five major themes that emerged through the process:

- 1) There was a clear endorsement of the smart growth principles used to develop the draft of DeLand 2050, and the City should continue the DeLand 2050 project with the smart growth principles as the foundation.
- 2) Growth should be focused in already developed areas and the core portion of the City. Some of these growth areas will be suitable for higher intensity development.
- 3) The areas outside the growth areas, for the most part, should be reserved for environmental protection, open space, and recreation; or maintain existing low-density land use patterns, with the exception of a possible transit oriented development near the train station.
- 4) There will be a need for other modes of transportation to service the area other than cars, as more people move into the area and to make efficient use of SunRail.
- 5) Create and/or preserve a sense-of-place through urban design standards, in particular for City Gateway Corridors.

The statements above, as well as the comments from the workshops, are general statements and there may be exceptions to these statements based on specific circumstances. The development of detailed plans for specific areas through Joint Planning Agreements between the City and County or local neighborhood plans inside the City's boundaries will provide opportunities to make any adjustments necessary to address localized concerns. These agreements and plans will be produced over the next several years once the vision is approved.

Putting all this into a format using maps, policies and guidelines which can be used to guide future development in and around the City, should prove beneficial to the public in understanding the direction in which the Commission is aiming. The vision was not intended to become part of the Comprehensive Plan, but would be a stand alone document that could be adopted by the Commission and used as a tool when reviewing development proposals or capital improvement projects, similar to the Strategic Plan.

The City Commission and Planning Board are the "Vision Coordination Team". The Vision Coordination Team is responsible for the development of the City's Vision for 2050 and to provide for local public participation during the vision development process.

The City of DeLand's Planning Department was the coordinator of the community outreach effort. The department conducted meetings and provided background information to the public to help them provide useful comments and input as the vision was created.

### **The DeLand 2050 Plan is made up of the following sections:**

- 1) **Executive Summary** which consolidates the primary conclusions of the plan.
- 2) **Land Use** provides the desired land use pattern and implementing guidelines.
- 3) **Transportation** presents the transportation network and guidelines to supplement the proposed land use pattern.

Page left blank





# Executive Summary

## Sections:

|                     |    |
|---------------------|----|
| Purpose             | 5  |
| Public Comments     | 6  |
| Land Use Plan       | 6  |
| Transportation Plan | 10 |

## A. Purpose

The City of DeLand is positioning itself as a sustainable community and is stepping forward to meet that challenge. In 2009, the City of DeLand Planning Board and City Commission held four joint smart growth workshops to develop a draft of the 2050 Vision for the DeLand area. During the 2009 workshops the City Commission decided to use the Smart Growth principles as the foundation of the DeLand 2050 Plan. The principles of Smart Growth were used in combination with the elements of the Smart Growth Initiative of Volusia County, as well as sustainability concepts, in the development of the draft DeLand 2050.

The City Commission asked that the draft of the DeLand 2050 vision be presented to the community to seek their input and thus a public participation program was developed. The Commission wished to include input from residents living in the unincorporated portion of the City's water and sewer service area. Therefore, the County was invited to participate in the public participation process; and at their meeting on March 18, 2010, the County Council agreed to participate. Stetson University assisted by facilitating the public participation process.

The City visioning process asked what kind of city its citizens want to see in 2050 and how sustainability can be a part of that vision. The following statement was created to guide the entire visioning endeavor.

### **VISION STATEMENT:**

*DeLand's future will allow growth while preserving historical resources and natural areas, encouraging both new development and redevelopment in the core city area (Greater DeLand Area), establishing mixed use centers, supporting alternative modes of transportation and providing a diverse and strong economy that will result in a more livable and sustainable community.*

## B. Public Comments

The public participation program included: the four initial joint Planning Board/City Commission workshops; six community workshops held throughout the DeLand area over a two month period; a web page created to allow widespread public review of materials and an on-line survey for the public to provide their input if they could not attend one of the workshops. Each of these steps allowed the public opportunities to provide feedback to the City on future development.

Comments were gathered on the concept for DeLand 2050 through both oral and written forums. The comments and conclusions are contained in the document entitled “Summary Report for Public Involvement, October – November 2010”. These comments identified everything from specific geographic areas that need to be addressed to encourage development; to preserving the existing land use pattern; to changing how people travel through the region.

## C. Land Use Plan 2050

The City Commission and the Planning Board prepared the first draft of the vision concept, “DeLand 2050”. The underlying foundation for the vision plan is the following four elements:

- Recognition of property rights in the current land use patterns for both the City and County;
- Land use patterns based on activity and neighborhood centers to encourage mixed use and walkability;
- Land use patterns that concentrate development at the core of the city or key corridors and that lessen in intensity as one moves outward from the core; and
- Land use patterns based on low impact style development and conservation for the outlying areas.

### 1. DeLand 2050 Land Use Description

The DeLand 2050 map is intended to present a general land use pattern for the DeLand region to help guide future land use decisions. The suggested land use pattern concentrates development in a high intensity urban core, generally located inside the Greater DeLand Area (GDA) boundary and the southeast area of the City out to I-4.

The overall pattern for the DeLand area depicts a compact core with small neighborhood centers of mixed uses distributed around the City to make it more walkable. Certain roadway

corridors are shown to be redeveloped with higher intensity uses to facilitate the future use of transit and to improve the aesthetics of the City's gateways. Residential density will be increased near activity centers and along the corridors. The map illustrates key employment areas surrounded with support uses as well as residential uses. The operation of SunRail with a station near the current Amtrak station will create a transit village and will also allow for a potential spur into the center of DeLand causing redevelopment of the rail spur into a mixed use area dominated by residential. Unique districts are depicted to foster unique neighborhoods within the larger community that need special regulations or facilities; such as the downtown, rail spur, education, an art village, or historic areas.

## 2. DeLand 2050 Map

The joint workshops between the Planning Board and the City Commission produced the initial draft of the DeLand 2050 map. Following analysis of the input from the community meetings and the on-line survey, the initial DeLand 2050 map was reviewed and amended. The land use categories described below were not changed between the initial map and the final draft, but the locations and boundaries were adjusted based on public comments. The initial pattern was amended, but the main goal to limit urban sprawl by encouraging higher intensity redevelopment in and around the urban core as well as along several commercial corridors was maintained. Map 1 is the DeLand 2050 plan map.

The map contains four broad categories that allow different densities and types of development:

**Category 1** – Retains the existing land use and development pattern in place.

**Category 2** – Urban core area where the majority of the new, higher intensity growth will take place.

**Category 3** – Transit Oriented Development (TOD) has been placed on areas that have transit or are planned for transit.

**Category 4** – Designates areas that are currently under public ownership or that have been placed in conservation easements.

There are also four overlays that allow for a specific mix of uses:

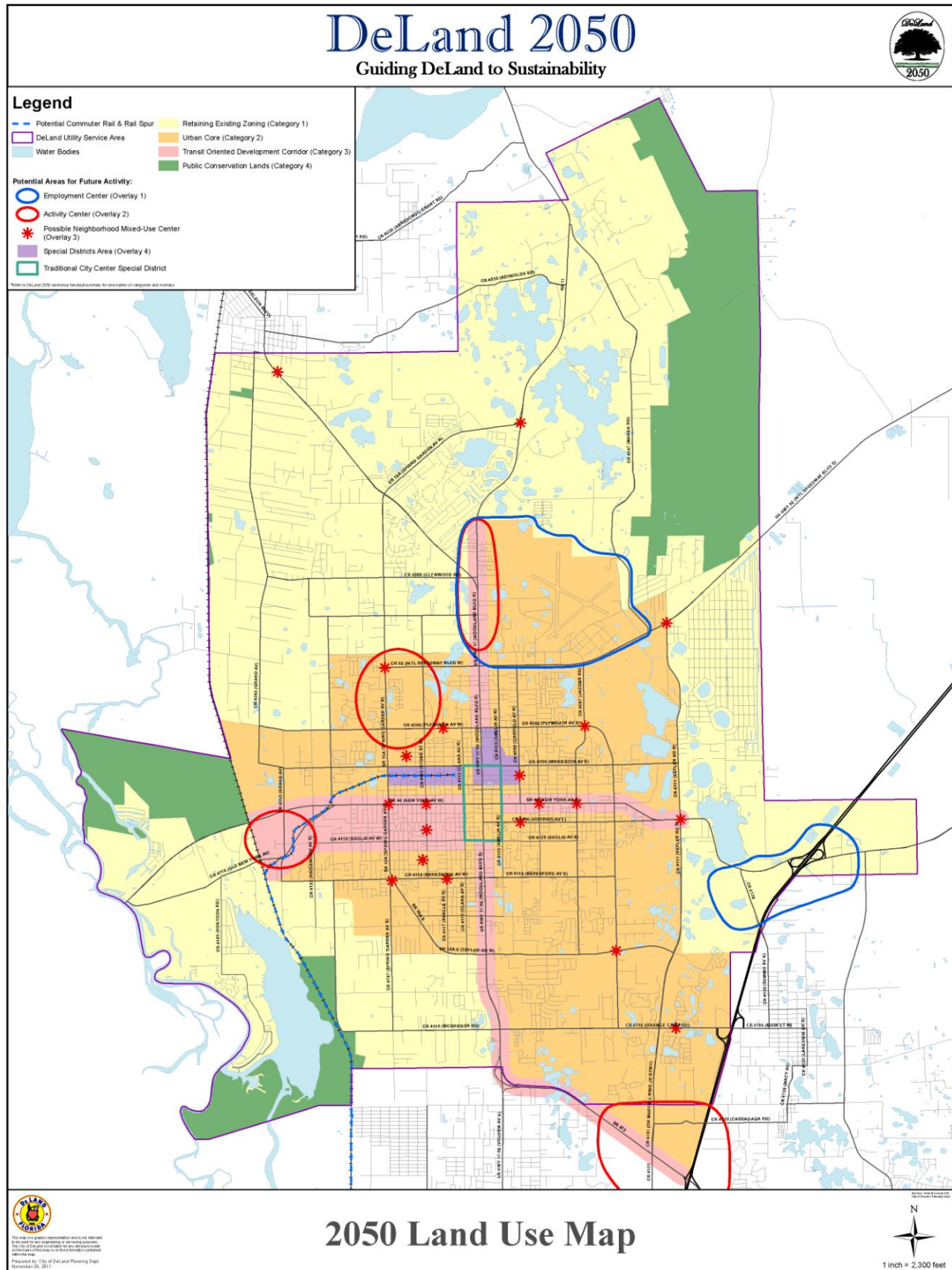
**Employment Center** – emphasizes business or industrial uses, rather than residential.

**Activity Center** – emphasizes an intensive mix of uses, including residential. These centers will become major commercial areas.

**Neighborhood Center** – identifies small mixed use areas that will provide daily goods and services for nearby residents.

**Special District** – indicates areas that have unique characteristics that the City would like to encourage and allow for expansion of compatible uses.





### 3. DeLand 2050 Guidelines

In addition to a map that shows the land use pattern there are also guidelines that help direct the implementation of the plan. Below is an abbreviated version of the guidelines that illustrate the direction the City is moving towards when reviewing new development.

1. Become a **sustainable** community by having a sustainable growth policy requiring the wise use of fiscal and natural resources. The City should be designed to be “greener” through energy and water conservation.
2. Create activity and neighborhood centers to encourage **mixed use** and walkability. Encourage mixed land uses and reduce isolated and single form land uses in order to reduce the number of miles traveled by autos.
3. Concentrate development at the core of the city or at **transit oriented** sites and corridors. The **urban core** is the key area to focus development, maintaining a strong job base and taking advantage of existing infrastructure. Locating higher intensity along select corridors or major centers will encourage transit and lessen traffic congestion.
4. Accept styles of **housing** other than single family dwellings to accommodate the shift in demographics where there will be fewer households with children and provide for households with adult children or aging parents.
5. Preserve **open space**, farmland, natural beauty, and critical environmental areas; while providing **recreational** opportunities, as well as parks and green spaces for residents.
6. Create a **sense of place** by protecting the small town atmosphere, lifestyle, convenience, promotion of historic character and scale of buildings. Protect the important aspects of quality-of-life by having convenient shopping, and promoting appearance of buildings while retaining open spaces and trees. Use design standards to preserve sense of place and to improve **gateway** appearances.
7. Encourage new development to reflect and protect the **historic character** of the core community by complementing the historic downtown; Stetson University; neighborhoods; other historic areas.

## **D. Transportation Plan 2050**

In order for the DeLand 2050 plan to become a reality, there must be a transportation plan to support many of the concepts contained in DeLand 2050. The land use pattern of DeLand 2050 suggests that modes of transportation in addition to the automobile will need to be emphasized to make the vision a reality.

Road construction has become increasingly more difficult due to the cost of construction and the lack of land available to construct new roads or add lanes even if money were available. This has caused local governments to consider other options in lieu of road construction. In order to keep up with population growth, transportation options must be developed to serve the area.

### **1. Transportation Elements from Original DeLand 2050**

The following is a list of transportation projects or concepts that were considered during the development of the initial draft of DeLand 2050.

1. Commuter rail station to develop as a Transit Oriented Development (TOD)
2. Link from commuter rail station into downtown
3. Circulator – local bus network around downtown or localized routes
4. Number of buses (and routes) increased for TOD's and to travel throughout the southwest region
5. Airport used for freight and private planes and to support the industrial park
6. Walking – supported by neighborhood centers and improved conditions
7. Biking – encouraged by adding trails and lanes
8. Road projects:
  - a. East Beresford Avenue extension to SR 44
  - b. West parkway completed
  - c. Kepler Road widened to better accommodate trucks from airport industrial park to I-4



## 2. Public Comments

During the community workshops for DeLand 2050, several alternatives for improving mobility and travel other than roadways were mentioned by the participants; along with regulatory changes to encourage a multi-modal transportation network. The comments from the workshops and surveys were consolidated to create the basis for a Transportation Plan to support the DeLand 2050 plan. These comments have been grouped into three different categories: general, facilities, and Transit Oriented Development (TOD).

### a. Transportation – General

This section presents general features and issues that make up the transportation system. Area residents are concerned about safety of bicyclists and pedestrians, traffic congestion and making sure there is easy access to downtown. It was also pointed out that automobiles are the preferred means of traveling, at least for the near term.

### b. Transportation – Facilities

This section lists the actual modes of transportation desired by the community as relayed by their comments.

### c. Transit Oriented Development

Because the DeLand area is not serviced extensively with transit, this section describes programs and facilities that will need to be put in place to help support transit to make it feasible in the future.

## 3. DeLand 2050 Transportation Plan & Map

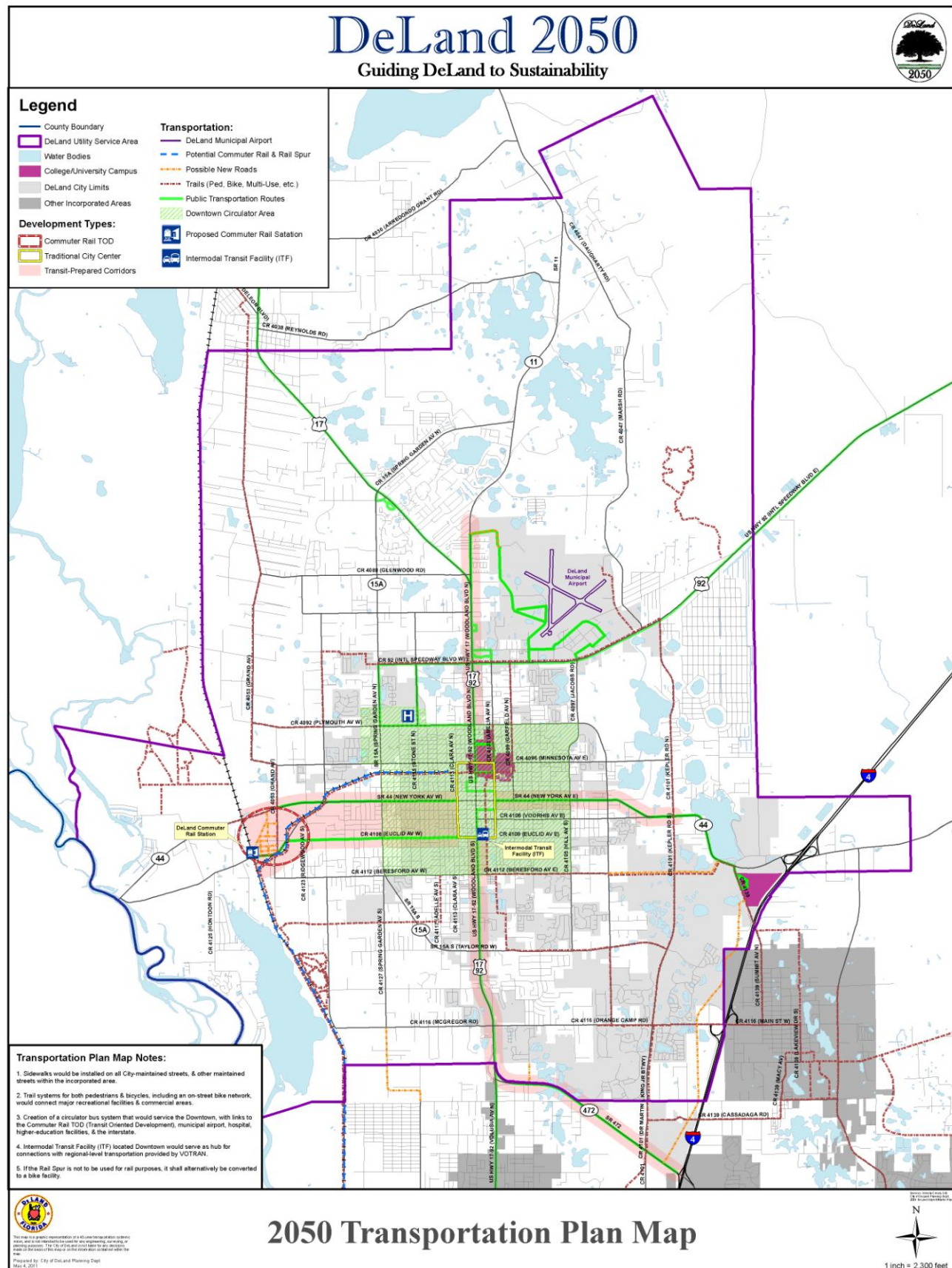
The DeLand 2050 Transportation Plan supports the land use pattern of the DeLand 2050 Plan. The transportation plan emphasizes modes of transportation other than the automobile without eliminating the importance of the automobile. Providing options to area residents is critical if the DeLand area is to maintain its position as an employment and residential hub. This section of the plan outlines the transportation system that allows the City to reach its 2050 vision. In addition to a map that shows the transportation network there are also guidelines that help direct the implementation of the transportation plan. Map 2 is the DeLand 2050 Transportation Plan map.

## 4. Transportation Plan Guidelines

In addition to a map that shows the transportation system there are also guidelines that help direct the implementation of the plan. Below is an abbreviated version of the guidelines:

1. Keep connected with **regional transportation network**, primarily **SunRail** and I-4 through **links** from the local network.

2. Provide that new development promotes **transit** styled villages and **transit planned corridors** at identified locations; such as the commuter rail station area developing as a Transit Oriented Development (TOD).
3. Develop a transit **circulator** to serve downtown and/or localized routes that provide connection to the regional system.
4. Continue to manage the **airport** to increase freight capacity and private planes that support the industrial parks.
5. Encourage walking and **walkable** communities by creating neighborhood business centers with a mix of uses and improving pedestrian atmosphere through safety, building design and aesthetic measures.
6. Encourage **biking** by constructing a complete network with trails, lanes and on-road routes.
7. Create **connectivity** by allowing people the ability to move between major developments without necessarily entering the major road network.
8. Establish a **multi-modal transportation** district to provide an interconnected transportation system to serve the urban core area.
9. Develop transportation system to manage traffic to prevent **congestion** beyond acceptable levels.





Page left blank



# Land Use Plan 2050

## Sections:

|                               |    |
|-------------------------------|----|
| Overview                      | 15 |
| Land Use Plan 2050            | 18 |
| Environmental Resources Map   | 23 |
| Public Comments               | 25 |
| DeLand 2050                   | 26 |
| Guidelines for Implementation | 30 |

## A. Overview

The City of DeLand is positioning itself as a sustainable community and is starting now to take steps to meet that challenge. The City designed a visioning process that determined what kind of city its citizens will want to see in 2050 and how sustainability can be a part of that vision. The following statement was created to guide the entire visioning endeavor.

### **VISION STATEMENT:**

*DeLand's future will allow growth while preserving historical resources and natural areas, encouraging both new development and redevelopment in the core city area (Greater DeLand Area), establishing mixed use centers, supporting alternative modes of transportation and providing a diverse and strong economy that will result in a more livable and sustainable community.*

## Smart Growth Direction

During the 2009 workshops the City Commission decided to use the general Smart Growth principles in combination with the elements of the Smart Growth Initiative of Volusia County as the foundation of the DeLand 2050 Plan. Below are the ten guiding principles that make up Smart Growth followed by the key elements.

### **Smart Growth Principles:**

1. Mix land uses – the mixing of land uses (commercial, residential, recreational, educational, public, open space, and others) can encourage foot and bike modes of transportation.
2. Take advantage of compact building design – use less land for development. This includes building size as well as parking; land consumption for buildings cannot be used for open space.
3. Create housing opportunities and choices – providing quality housing for people of all income levels and age groups.



*"Foster distinctive  
attractive communities  
with a strong sense of  
place..."*

4. Create walkable communities – pedestrian-friendly features range from providing shade for sidewalks to master planning development types.
5. Foster distinctive, attractive communities with a strong sense of place – opposite to strip development that does not instill community pride.
6. Preserve open space, farmland, natural beauty, and critical environmental areas; provide recreational opportunities, and guide new development into existing communities.
7. Provide a variety of transportation options – to help eliminate congestion in the transportation system.
8. Strengthen and direct development to existing communities – development directed to communities already served by infrastructure, use resources of existing neighborhoods and maintain value of public and private investment.
9. Make development decisions predictable, fair, and cost effective – to be able to meet the future demand for development; the concept must be accepted and endorsed by private sector. Predictability assures developers their projects can be approved.
10. Encourage community and stakeholder collaboration in development decisions – concept must be consistent with community's own sense of how and where the growth should happen.

### **Smart Growth Initiative:**

In 2004, a county-wide Smart Growth Implementation Committee was established that reviewed the principles of Smart Growth in relation to the issues facing Volusia County. That committee produced a report that broke the recommendations into seven subject areas or elements (listed below), 15 "keystone" recommendations and 49 additional recommendations that would implement the principles of Smart Growth in Volusia County. The entire report is included in the Smart Growth Workshop notebook and on the City's Planning web page.

### **Key Elements from Smart Growth Initiative Report (Volusia Co.)**

1. Protect the Environmental Core



2. Appropriately direct development
3. Develop Livable communities
4. Ensure the continued existence of agriculture
5. Meet the Infrastructure needs of growth
6. Integrate education
7. Integrate economic development

### **Initial Strategies:**

The presentations and discussions at the Smart Growth workshops provided the initial participation to establish the basis for the plan that would be reviewed by the public for their input. Using the vision statement, the City Commission and the Planning Board prepared the first draft of the vision which is referred to as “DeLand 2050”. The DeLand 2050 plan was established on these four major traits:

- Current land use patterns for both the City and County that recognizes property rights;
- Land use patterns based on activity and neighborhood centers to encourage mixed use and walkability;
- Land use patterns that concentrate development at the core of the city or key corridors and lower intensity outwards; and
- Land use patterns based on low impact style development and conservation for the outlying areas.

Below are general comments that were stated at the joint City Commission/Planning Board workshops that were also incorporated into the initial draft concept:

- The market for housing in and around the City has primarily been for detached single family dwellings. Education of developers, realtors, and public will be required to begin the move to accept other styles of housing, to accommodate the shift in demographics where there will be fewer households with children and provide for adult children or aging parents.



*Live/Work Townhomes*





*“Create walkable communities – pedestrian-friendly features range from providing shade for sidewalks to master planning development types.”*

- Agreement that the City should be working towards ending urban sprawl and encouraging a compact development pattern that’s designed to be greener.
- Due to a surplus of existing houses and empty lots, the City should be selective in the approval of more residential land.
- Protection of environmental areas is important as well as maintaining parks for residents as a quality of life issue.
- Urban core is the key area to focus new development, with maintaining a strong job base throughout the region which will also take advantage of existing infrastructure.
- Include protection of agriculture with discussion of protecting “green” spaces.
- Develop a transportation system that includes all modes of transportation for the area because roads alone will not handle the needs of the community.

A land use map was conceived as a way to incorporate the desirable traits of the various scenarios discussed during the joint workshops. The DeLand 2050 map, as it is now called, was created to illustrate the resulting land use pattern. As the vision was developed, a set of guiding principles that can be used to implement the vision by suggesting future Comprehensive Plan amendments and changes to the land development regulations was also developed.

The second component of DeLand 2050 is the Transportation Plan that presents transportation options and alternatives that will support the DeLand 2050 land use plan. This portion of the plan is presented in Chapter IV.

## **B. Land Use Plan 2050 – Initial Concept**

### **Description of Initial Concept:**

The initial concept was presented at six community workshops for public comments. The land use pattern in this initial concept concentrates development in a high intensity urban core, generally located inside the Greater DeLand Area (GDA) boundary and the southeast area out to I-4. This pattern helps to limit urban sprawl by

encouraging higher intensity redevelopment in and around downtown and also along several commercial corridors. Certain sections of suburban development may be suitable for redevelopment (or retrofitting) to allow different housing types throughout the community, while other areas should remain as currently developed.

In this concept, the overall pattern for the DeLand area retains a compact core with scattered neighborhood centers of mixed uses to make the City more walkable. Selected corridors are to be redeveloped with higher intensity uses to facilitate the future use of transit. Residential density is increased near business or activity centers and along the selected corridors. Key employment areas are surrounded with support uses as well as residential uses. The SunRail station near the current Amtrak station is to be developed as a transit-oriented development along with an assumption that the rail spur could be used for a link into the center of DeLand which would cause a redevelopment of the termination area into a mixed use area dominated by residential uses. Unique districts are created to provide for or foster unique neighborhoods within the larger community that need special regulations or facilities, such as the downtown; rail spur, educational, an art village, or historic areas.

DeLand 2050 will allow for all types of housing; single-family homes, townhomes, apartments, condos, duplexes and smaller lots. The vision also suggests the concept of adding additional dwelling units to existing units such as mother-in-law or garage apartments.

Population forecasts indicate that the utility service area will see an increase of almost 50,000 new residents residing in approximately 22,000 new dwelling units by 2050. The projected 2050 population for the entire area covered by DeLand 2050 is approximately 105,000. This initial concept for the DeLand 2050 Plan assumes the majority of these new residents are to be housed inside the Greater DeLand Area (GDA) or the existing city limits and steered away from the rural, agriculture and environmental areas. To help distribute these units, the GDA was expanded to include the southeast area outside of the current city boundary. This area was chosen because it is adjacent to the interstate and will receive the most demand for development outside of the GDA. The amount of land area inside the GDA is 16,800 acres (the GDA with expanded southeast area contains a total of 21,200 acres); total acres inside the utility service area (including the GDA) is approximately 57,200. Approximately 37% of the utility service area is targeted for possible increase in density, while the remaining 63% is projected to maintain its current density.



*Compact core with scattered neighborhood centers of mixed-uses*



*"DeLand 2050 will allow for all types of housing: single-family homes, townhomes, apartments, condos, duplexes, and smaller lots"*



## DeLand 2050 Initial Concept Map

The joint workshops between the Planning Board and the City Commission produced the initial draft of the DeLand 2050 map. The map is intended to present the general land use pattern for the DeLand region in 2050. The development categories and overlays were overly expansive to be seen easily and generate discussion. The original concept map is found on page 21 of this report.

The map contains four broad categories that allow different densities and types of development and four overlays with specific functions. The categories and overlays are described below. These same categories and overlays are also used in the final map design. The categories cover large expanses and will ultimately be broken down into localized or neighborhood plans that display specific uses that reflect the intent of the specific category or overlay.

### DeLand 2050 Map Categories:

**Category 1 (Yellow)** – Retains the existing zoning in place, and may allow increases in density if it conforms to specific criteria. Such criteria may include: appropriate location, retain over 30% open space, protection of existing uses, availability of existing infrastructure (without expansion or extensions), no irrigation allowed, contributes to sustainability, and increases economic opportunities (not residential).

**Category 2 (Orange)** – Urban core area where the majority of the new growth will take place. The boundary shown on the map corresponds to the boundary of the Greater DeLand Area (GDA). This boundary was chosen, because since the 1970's, the GDA was slated to be served with urban services. This category also includes the southeast area to I-4, which encompasses Victoria Park.

**Category 3 (Pink)** – Transit Oriented Development (TOD) areas have been placed along several roadways and the area between the commuter rail station and downtown. A TOD is an area that will encourage higher density and a mixture of uses, in order to make a transit system more efficient for the DeLand area. These areas will see a transition from the current development pattern to a more transit friendly pattern, over time.

**Category 4 (Green)** – Designates areas that are currently under public ownership in conservation easements.

### **DeLand 2050 Map Overlays:**

There are also four overlays that indicate certain areas for specific types of mixed use development:

**Overlay 1** – Employment Center, designated and enclosed by a blue line, is an overlay that emphasizes business or industrial uses, rather than residential. Criteria could be developed to protect business development and keep out incompatible residential uses.

**Overlay 2** – Activity Center, designated and enclosed by a red line, is an overlay that emphasizes an intensive mix of uses, that are compatible with and include residential. These centers will become the major commercial areas.

**Overlay 3** – Neighborhood Center, designated by the red asterisk, is an overlay that identifies small mixed-use areas that will provide primarily daily goods and services for nearby residents. Although a symbol has been used, the designation on the maps are examples of locations and are only intended to show that these centers could be placed at many locations where the community would want to establish a neighborhood center. The asterisk is only intended to identify the general area that will be studied, to determine whether or not a neighborhood center should be located in the vicinity.

**Overlay 4** – Special District, are placed on areas that have unique characteristics where the City would like to encourage the current use and allow for expansion of compatible uses. Examples of these Special Districts are the area around Stetson University, an artists' village, marinas, and rural clusters. Each one of these districts will have unique issues, so one set of regulations will not be appropriate. Special districts will be individually named and specific regulations will be developed to help maintain the uniqueness of that particular district.

Each special district will be planned separately. An example of this is the downtown and the surrounding area that would transform as the downtown expands. The name for the downtown special district is Traditional City Center. Policies will be developed to allow new growth and development while protecting the existing character of the downtown.

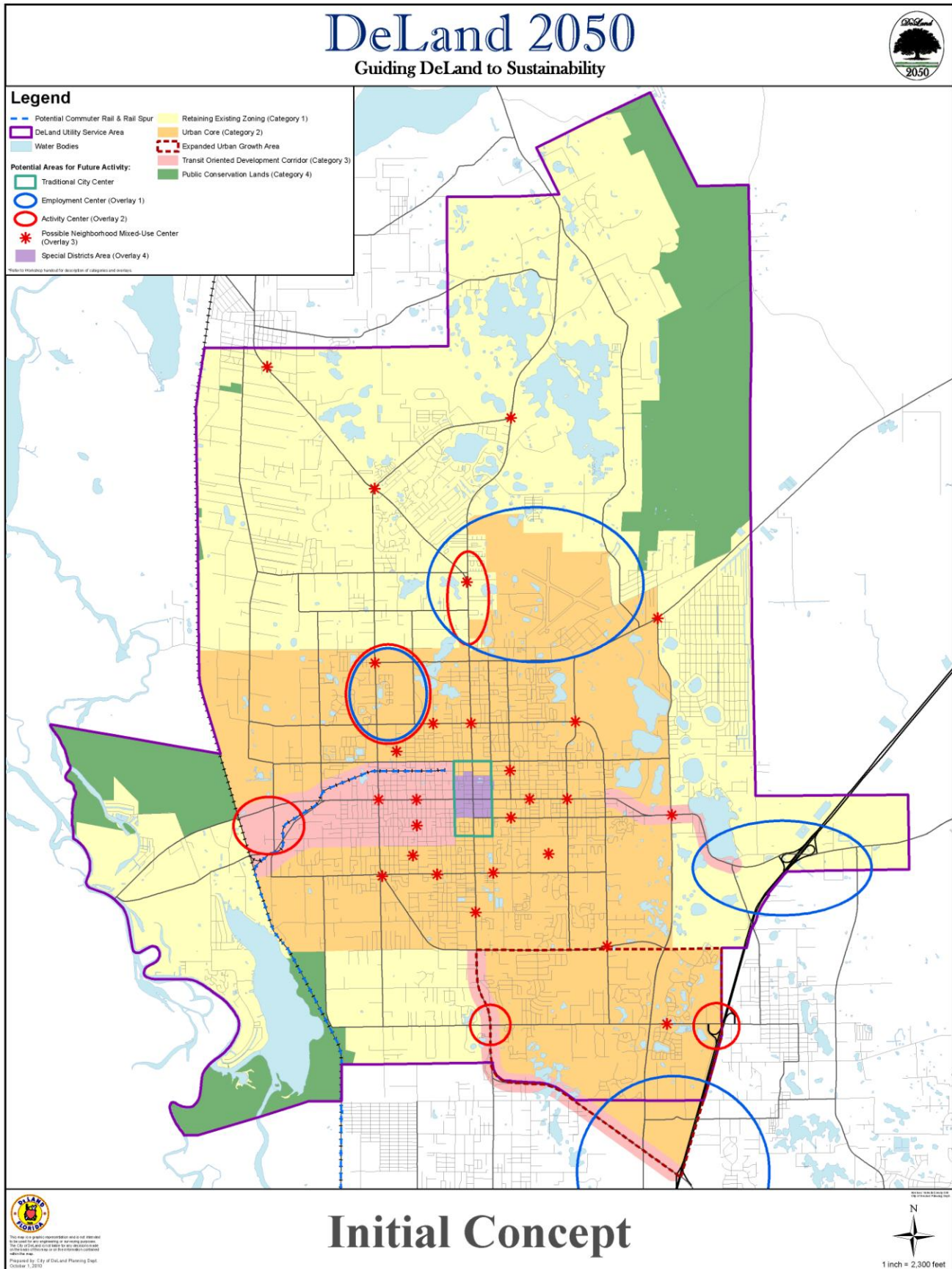



---

*"Neighborhood Center  
...small mixed-use  
areas that will provide  
primarily daily goods  
and services for nearby  
residents."*



*Special District for the  
downtown –  
Traditional City Center*





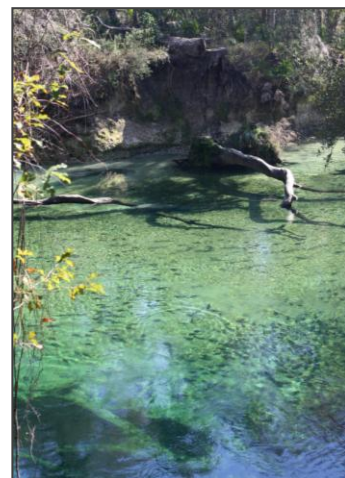
## C. Generalized Environmental Resources Map

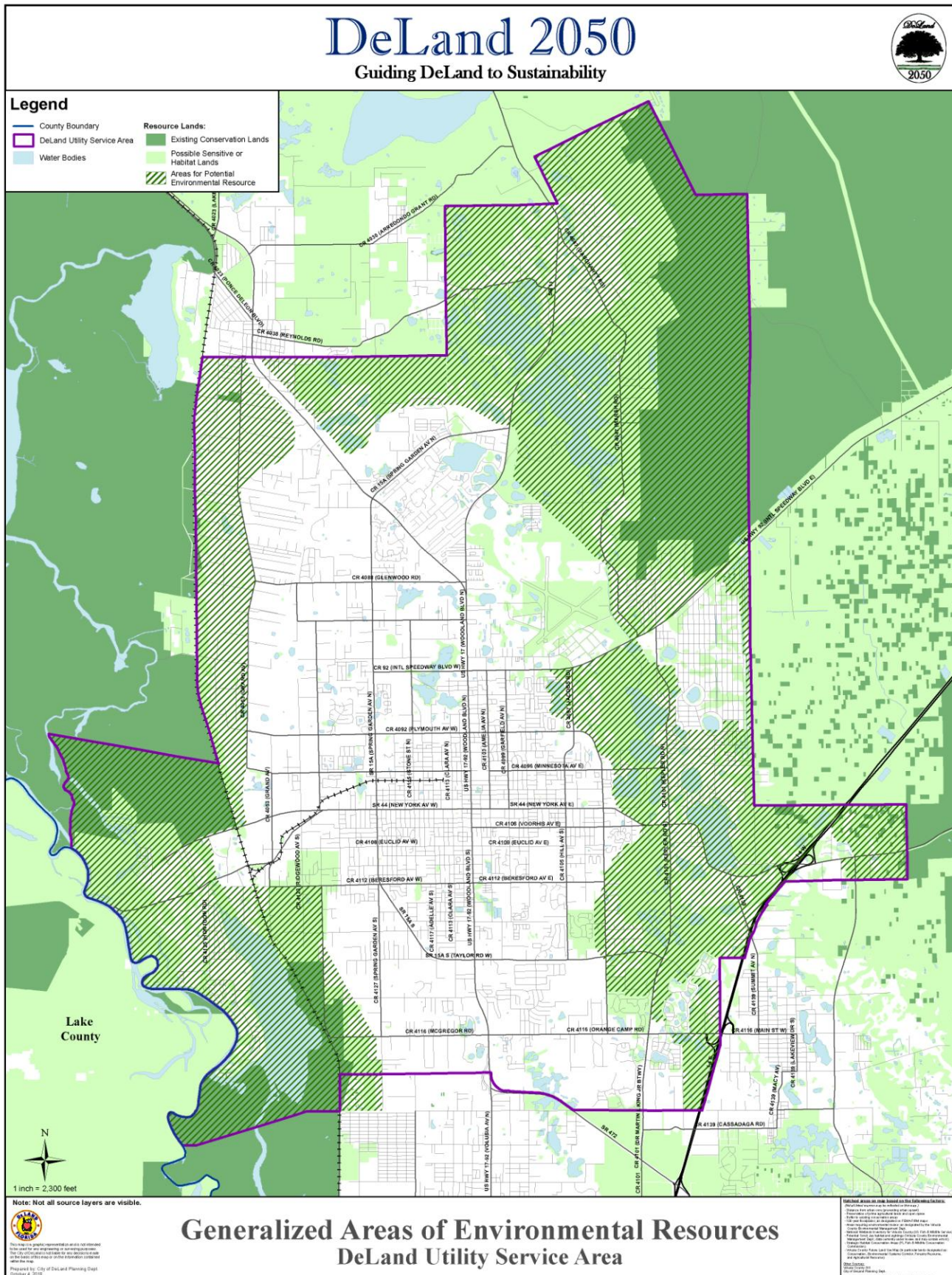
A second map was developed for the purpose to illustrate areas that contain environmentally-sensitive lands and special habitat. Any new development in these areas will be reviewed to insure that the protection of the natural resources will be addressed. The lands identified on the environmental resources map contain features that are already protected by regulations and staff is recommending that these protections remain and possibly be expanded to provide additional criteria for development adjacent to these areas for added protection.

The areas shown on this map also include some of the areas for agriculture, although not all areas under agricultural production may be included. The map is intended to show that agriculture uses are included and encouraged to remain as part of the City's vision, especially in the outlying areas. As plans are developed in areas identified on the environmental resources map policies, will be developed to address how the resources will be protected.



*Environmentally-sensitive  
lands and special habitat*







## D. Public Comments

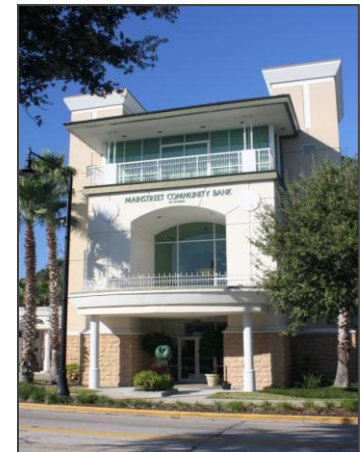
After the initial concept for DeLand 2050 was presented at the community workshops, the following comments were gathered through oral and written forums. For the complete list of comments and conclusions refer to the document entitled “Summary Report for Public Involvement, October – November 2010”. These comments identified issues and areas that need to be addressed to either encourage development or redevelopment or to ensure the current intensity is maintained. The following is a list of the comments grouped into general categories.

1. **Sense-of-place** – majority of respondents indicated that the small town atmosphere, lifestyle, convenience, and scale of buildings were the most important qualities. The protection of these qualities was foremost in all comments received.
2. **Green/open space** – should be located in the urban core, as well as transition areas and beyond. Protecting natural areas and open space both inside and outside urban areas was listed throughout the comments. Landscaping and tree protection were also important.
3. **Downtown** – both the businesses & the historic district should be protected and the area promoted as a key component of the DeLand region. Many comments concerning the downtown included preference for the special events which included parades.
4. **Sprawl** – was mentioned fairly often and most comments leaned towards reducing new development far away from the existing developed areas. New development in the core area was the preferred location and in select centers for higher intensity.
5. **Infill development** – respondents were suggesting that new growth should be encouraged to locate in the existing developed areas through infill of undeveloped lands and the reuse or better use of existing buildings. Creation of mixed-use developments were preferred to the standard single use projects.
6. **Creating connectivity** – respondents wanted to allow people the ability to move between major developments without necessarily entering the major road network. Completing sidewalks & trails between destinations and neighborhoods; thus creating walkable destinations




---

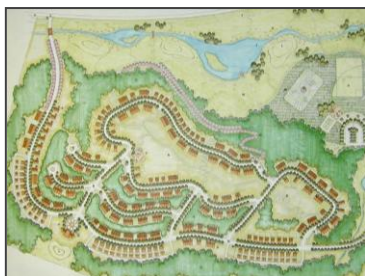
*“Green/open space should be located in the urban core, as well as transition areas and beyond.”*




---

*“...new growth should be encouraged to locate in existing developed areas through infill.”*





*Cluster or compact development*

7. **More development** along corridors and in core, if transit is improved – respondents agreed that higher intensity could be located along select corridors or major centers if there was no additional traffic congestion. Improving transit was listed quite often as a means of dealing with some of the congestion. Protection of existing residential was also very important when establishing these high intensity corridors or centers.
8. **Rural & urban uses** – there was no true distinction between the respondents that wanted the rural uses separate from the urban uses and the ones that did not mind a blending. The actual decision will be an individual decision and dependent on the neighborhood being studied.
9. **Good quality-of-life** – as would be expected, this term meant different things to different people. Many desired to include open spaces and trees as an important aspect of quality of life. Other respondents called for walking trails and appearance of gateways and buildings to be a valuable part of their quality of life; while others looked for convenient shopping.
10. **Cluster or compact development** – this concept did appeal to many because it could provide more open space but responses were also very clear that it should not be required everywhere.

## E. DeLand 2050

### DeLand 2050 Map (land use pattern):

As presented earlier, the DeLand area will see an increase of almost 50,000 new residents residing in approximately 22,000 new units for a total population estimate of 105,000 by 2050. The majority of the new residents are to be housed inside the Urban Core (Category 2) and steered away from the rural, agriculture and environmental areas. The DeLand 2050 map will be used as a visual guide for determining the appropriate land uses, such as during Comprehensive Plan amendment discussions.

The input staff received from the community meetings and the surveys were reviewed to determine what statements gained a consensus. These statements were identified and grouped into categories in order to revise the DeLand 2050 plan. From this review, it was clear that there were almost as many comments concerning transportation as there were on land use issues. Therefore, the plan was divided into two sections: land use and transportation. The land use discussion will

continue in this section while transportation is discussed in the next section.

The land use categories are the same as presented under the original concept, but locations and boundaries of these categories have been adjusted based on public comments. The revised map is attached.

The following are the major modifications that have been made to the initial concept map to create the second map:

1. **Transit Oriented Development (TOD)** has been placed at the commuter rail station and downtown. The TOD concept is also being used along several roadways and the area between the commuter rail station and downtown. These corridors are referred to as transit-planned corridors.

**TOD added for:**

- a. US 17/92 north from Plymouth to SR 11 (Carter Road)
- b. US 17/92 south from Euclid Ave to Taylor Road
- c. SR 44 from Amelia Ave to Blue Lake Ave

**TOD deleted for:**

- a. Rail spur
- b. SR 44 from east of Kepler Road to CR 4139

2. **Removed Special District** boundary for downtown and kept Traditional City Center designation as a specific area to be planned as a Special District.

3. **Added Special District Area** designation for:

- a. Stetson University
- b. Rail Spur area

4. **Removed Employment Center** from hospital vicinity; kept Activity Center designation

5. **Deleted Activity Center** designation from:

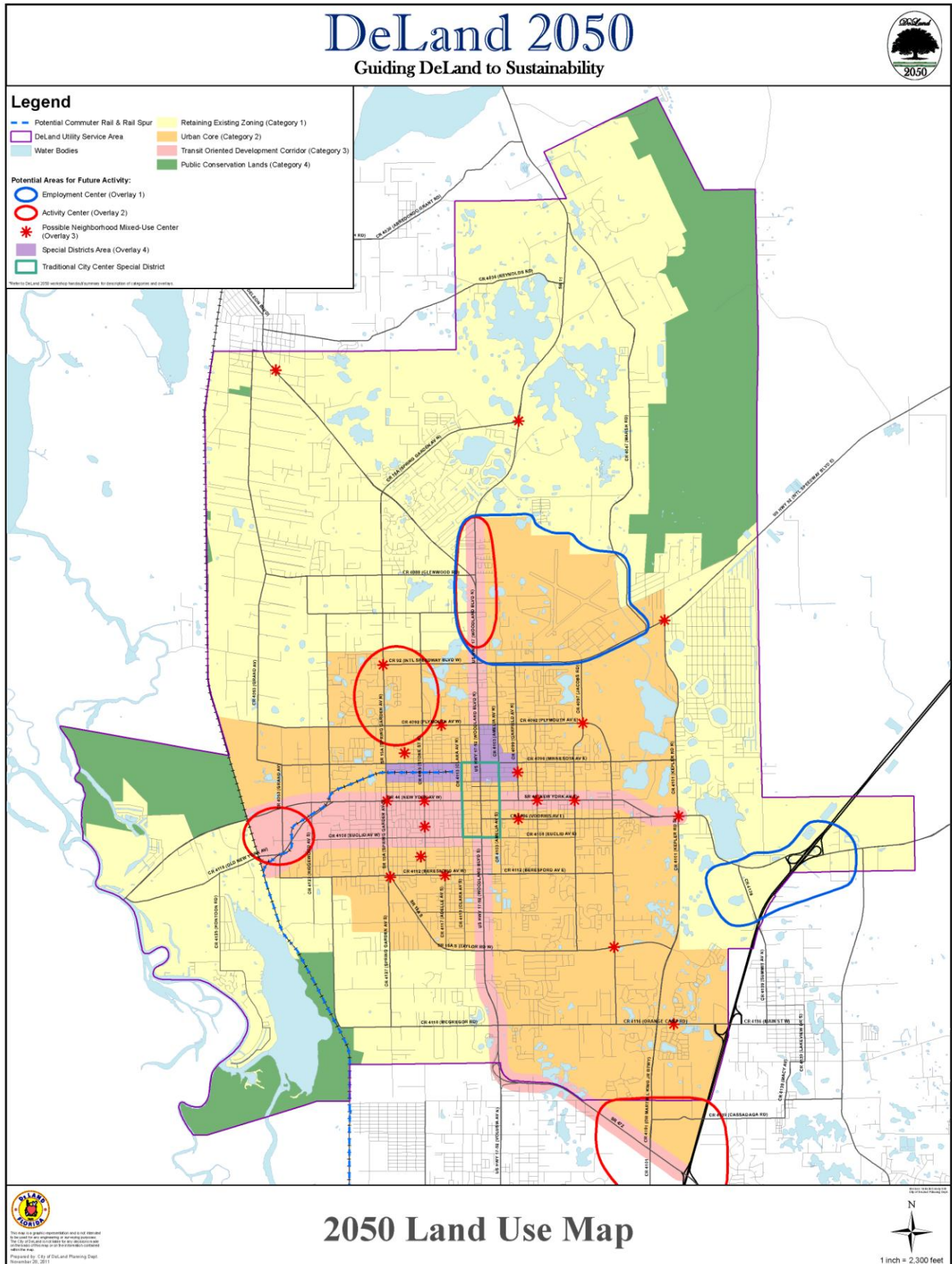
- a. Intersection of US 17/92 and Orange Camp Road
- b. I-4 interchange at Orange Camp Road

6. **Expanded Category 1** (retaining existing zoning) & **reduced Category 2** (urban core) at:

- a. North of W. Plymouth Avenue, between RR track and Hazen Road
- b. South of W. Beresford Avenue, between RR track and Fatio Road

7. Adjusted size of Employment Center:
  - a. around the intersection of I-4 and SR 44
  - b. at DeLand airport
8. Changed Employment Center designation to Activity Center for the area west of the I-4 interchange with SR 472.
9. Utility Service Area boundary corrected in the southern boundary west of US 17/92 to match utility provider boundary.





## F. DeLand 2050 Land Use Guidelines for Implementation

The following guidelines will be used in combination with the DeLand 2050 map and the City's Strategic Plan when reviewing new development proposals and Comprehensive Plan amendments.

### Land Use Guidelines:

The DeLand area is not an isolated, independent jurisdiction, but part of a large interconnected metropolitan region. These regional influences will impact how the DeLand area will grow. Learning how to interact and become involved in the region will be crucial as the City approaches 2050. These guidelines will help with decisions on how the DeLand area will develop.

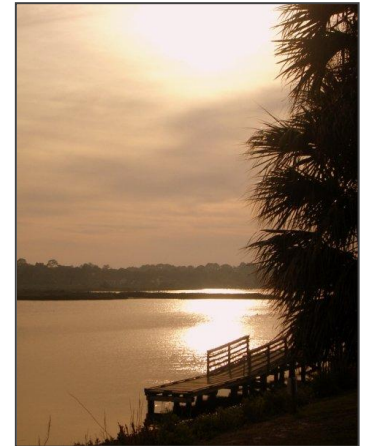



---

*"Become a sustainable community by having a sustainable growth policy requiring the wise use of fiscal and natural resources."*

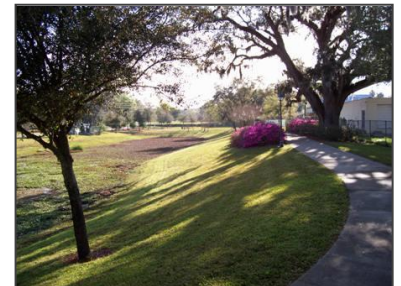
1. Become a sustainable community by having sustainable growth policies requiring the wise use of fiscal and natural resources. The City should be designed to be "greener" through energy and water conservation.
2. Create activity and neighborhood centers to encourage mixed use and walkability. Promote a healthy community with beautiful and safe neighborhoods, with easily accessible public space or green space and bike and pedestrian friendly design.
3. Concentrate development in the urban core region or at transit oriented sites and corridors. The urban core is the key area to focus development, maintain a strong job base and take advantage of existing infrastructure.
4. Create housing opportunities and choices by providing quality housing for people of all income levels and age groups.
5. Accept styles of housing other than single family dwellings to accommodate the shift in demographics where there will be fewer households with children and provide for households with adult children or aging parents.
6. Due to a surplus of existing residential and commercial structures, along with empty lots, the City should be selective when considering requests for additional commercial and residential land.

7. Preserve open space, farmland, natural beauty, and critical environmental areas; provide recreational opportunities; and guide new development into existing communities.
8. Allow new appropriate agriculture to be established as well as parks and green spaces for residents.
9. Encourage mixed land uses and reduce isolated and single form land uses in order to reduce the number of miles traveled by autos.
10. Take advantage of compact development design that uses less land for building size as well as parking. Appropriate locations for cluster or compact development are dependent upon neighborhood qualities.
11. Use design standards to preserve sense of place and to improve gateway appearances.
12. Create a sense of place by protecting the small town atmosphere, lifestyle, convenience, and historic character of DeLand. Maintain the current scale of buildings and not allow new construction to overshadow existing architecture. Protect the important aspects of quality-of-life by having convenient shopping, promoting appearance of buildings while retaining open spaces and trees.
13. Oppose new strip development that does not instill community pride and encourage the rehabilitation of the older commercial areas.
14. Encourage new development to reflect and protect the historic character of the core community by complementing the historic downtown; Stetson University; neighborhoods; other historic areas.
15. The urban core should contain open space to be enjoyed by the public as well appropriate landscaping with trees as a main focal point.
16. Protect the businesses and the historic portion of downtown so it remains a key component of the DeLand region.
17. Encourage new growth to locate in the existing developed areas through infill of undeveloped lands and the reuse or better use of existing buildings.




---

*"Preserve open space, farmland, natural beauty, and critical environmental areas..."*




---

*"The urban core should contain open space to be enjoyed by the public..."*



- 18.** Creation of mixed-use developments is preferred to the standard single use projects.
- 19.** Locate higher intensity along select corridors or within major centers to encourage transit and to lessen traffic congestion. Establishing the high intensity corridors or centers will not degrade existing residential.



# Transportation Plan 2050

## Sections:

|                           |    |
|---------------------------|----|
| Transportation Elements   | 33 |
| Public Comments           | 34 |
| Transportation Plan       | 37 |
| Transportation Guidelines | 40 |

## Introduction

Several modes of transportation need to be emphasized throughout the region to make the DeLand 2050 vision a reality. In recent years, road construction has become increasingly difficult due to the cost of construction, lack of funding, and the lack of land available to construct new roads or additional lanes. This has caused local governments to consider other options, in lieu of road construction, to accommodate the transportation needs of a growing population. Although automobile usage will continue as a primary means of transportation, the 2050 land use vision is based on the assumption that additional transit options will be needed.

## A. Transportation Elements from Original DeLand 2050

The following is a list of transportation projects or concepts that were used during the development of the initial draft of DeLand 2050.

1. Commuter rail station to develop as a Transit Oriented Development (TOD)
2. Link from commuter rail station into downtown
3. Circulator – local bus network around downtown or localized routes
4. Number of buses (and routes) increased for TOD's and to travel throughout the southwest region of Volusia County
5. Airport will be used for freight and private planes and to support industrial park
6. Walking – supported by neighborhood centers and improved conditions
7. Biking – encouraged by adding trails and lanes

8. Road projects:
  - a. East Beresford Avenue extension to SR 44
  - b. West parkway completed

## B. Public Comments



*“...area residents are concerned about safety of bikes and pedestrians...”*

During the community workshops for DeLand 2050 several alternatives for improving mobility and travel other than roadways were mentioned by the participants; as well as regulatory changes to encourage a multi-modal transportation network. The definition for multi-modal transportation network or district was discussed at the workshops and is attached to the end of this section to allow the reader to become familiar with the terminology. The comments from the workshops and surveys were consolidated to create the basis for a Transportation Plan that will support the DeLand 2050 plan. These comments were then grouped into three different categories; general, facilities, and Transit-oriented Development (TOD).

### 1. Transportation – General

Below are comments that address general aspects of the transportation system that influenced the final DeLand 2050 plan. The list shows that area residents are concerned about safety of bikes and pedestrians, congestion and making sure there is easy access to downtown. These comments provided guidance in developing the overall transportation plan for DeLand 2050.

1. Need hub and spoke type of transportation network, with smaller modes of public transportation providing connection
2. Need to protect downtown and provide transition from intense development along the routes to downtown
3. Do not create sprawl with new modes of transportation
4. Protect residences from traffic from heavy commercial or multifamily
5. Walkability and pedestrian friendliness
6. Traffic in core area, too congested (reduce congestion)
7. Don't forget independent travel bikes/walking



8. No coherent unification of pedestrian, bike, transit facilities
9. Trucks driving downtown (stated as a problem to be addressed)
10. Cars will be the preferred means at least for the near-term

## 2. Transportation – Facilities

This section lists the physical features of the transportation options mentioned in the comments. The options listed first, simply had the most discussion or mention; and the order of presentation is not indicative of the ultimate priority that will be developed or addressed. The complete list of comments is contained in the document entitled “Summary Report for Public Involvement, October - November 2010”.

The first category is **public transit**, which includes everything from bus, trolley, shuttle or mini-bus and commuter rail (SunRail). Public transit also included addressing areas to be served by transit (to be discussed in more detail in the transit oriented development section).

A majority of the comments dealt with the current lack of public transit and indicate that a major effort needs to be made to make transit a reality. Public transit will need to be more efficient, serve a large area with higher densities, and include desirable destinations. The predominant type of public transit that was mentioned was a bus. There was also a considerable discussion of a downtown circulator or trolley to get people around as the downtown continues to grow. A smaller vehicle than the standard size bus was suggested as a better fit for the DeLand area. SunRail was mentioned as a means to travel regionally and to provide a link to the downtown.

The second category is **bicycles**, which includes the range of providing more trails to equipping buses with bike racks. To encourage biking, improvements were suggested such as separate facilities including parking and increased safety such as lighted trails.

The third category is **walking**, which comprises improving safety and adding sidewalks. Also improving the amenities such as shade and benches were mentioned. Providing a connection between neighborhoods is important.

The fourth category is **new roadways or road improvements**, which includes improving existing roads, such as repaving or streetlights or increasing the capacity of roads, such as: four laning SR 44 from Hazen Road to SR 15A or extending Beresford Avenue from its eastern



**Parking Garages**




---

*“Public transit will need to be more efficient and serve a large area with higher densities, and include desirable destinations.”*

terminus out to SR 44.

A fifth category was also created that contains the remaining comments that did not fit into any of the above four categories, but were primarily dealing with **new technology**. The predominant comment was for the City to accommodate electric vehicles (including golf carts), with the second type of new travel being driverless cars. There was also mention of upgrading rail into the City as a spur off of the SunRail track. This section mentions the need to be flexible enough to accommodate new means of transportation as they are developed.



*“A TOD helps create compact, walkable communities that provide a quality of life without complete dependence on a car for mobility and survival.”*

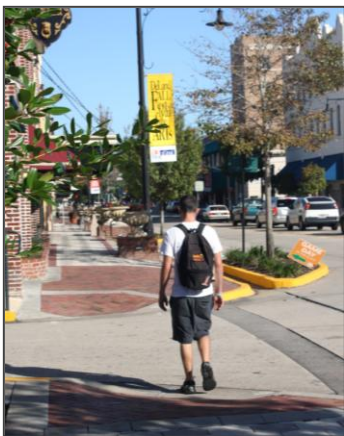
### 3. Transit Oriented Development

Transit Oriented Development (TOD) is a type of development that is either located around mass transit centers or along corridors that are developed at a density and intensity that makes it feasible to be served by public transportation. A TOD helps create compact, walkable communities that provide a quality of life without complete dependence on a car for mobility and survival. Because the DeLand area is not serviced extensively with transit, there is a need to put programs and facilities in place to make transit feasible as the community grows.

To illustrate the public’s desire to create conditions for the development of a TOD, the following three questions are from the second survey and relate to the concept of encouraging TOD’s around the City. The three questions received positive responses from those who took the survey and therefore were used as the foundation for developing the land use related portion of the Transportation Plan. The responses after each question are from both the survey and the comments from the community workshops.

**A. Are you in favor of increasing development intensity along major roads to make the use of transit easier?** Below are generalized comments from the survey and meetings concerning intensity and transit.

1. Drastically increase transit to accommodate intensity to avoid more congestion
2. Create activity centers connected by more intense corridors
3. No real town center that includes intermodal transportation facilities
4. Areas where transit is planned along with development areas



*Increased density and nearby amenities encourage walkability*

**B. Do you think it is a good idea to have a mix of uses close-by to encourage walking or reduce the number of miles driven?** Below are comments related to what it would take to encourage walking.

1. Multi-story buildings preferred, but intensity should depend on neighborhood
2. Improve environment; security and amenities to encourage walking
3. Smaller pocket parks in city limits

**C. Does the City need more transportation options?** Comments below present how participants would go about creating TOD's.

1. Biking
2. Public transportation
3. Walking
4. Support genuine mixed-use, dense development along transport corridors, and curbing urban sprawl
5. Can't have downtown be the only hub in DeLand. We need several that are top city priorities.
6. Sprawl, ugly automobile-oriented development
7. Commercial businesses on high traffic highways should adhere to rules like plantings, minimal signage
8. Improve gateway entrances
9. Maintain tree canopy
10. Planning a "Transit Oriented Development Corridor" along SR 44 by Lake Winnemissett through a narrow swath of existing single family residential development makes no sense whatsoever.
11. Think how people in European cities use public transportation - rail from airport to city, buses to hotels - and homes
12. Consider SR15A for transit oriented development.
13. With "pocket parks" along the route

## C. Transportation Plan – DeLand 2050

In order for the DeLand 2050 plan to become a reality there must be a transportation plan to support many of the concepts contained in DeLand 2050. Therefore, using the preceding discussion as the foundation for developing the transportation plan for DeLand 2050, the proposed plan is presented below and is illustrated in the map located at the end of this chapter.



## Transit Network:



*"The downtown and surrounding area will be developed as a multi-modal transportation district, with transit as a key component of the system."*

The transit network is proposed to become a complete public transit system made up of local and regional routes to serve the majority of the residents near the urban core. Downtown DeLand is the main focal point for the transportation system. The downtown and surrounding area will be developed as a multi-modal transportation district, with transit as a key component of the system. The downtown will be served by a circulator system that will provide connection throughout the entire downtown area, in order to take advantage of the parking facilities and new residences. This system will provide links out to the SunRail station and to other high intensity hubs such as the airport, hospital, Stetson University and the interstate. The circulator will also connect to VOTRAN at the Intermodal Transit Facility (ITF) in the downtown. To avoid clutter on the map, the concept of a multi-modal transportation district is not shown on the map, but will coincide with the area for the downtown circulator designation.

In addition to the circulator, the regional transit system (VOTRAN) will provide service along several major corridors that connect the DeLand area to adjoining jurisdictions. Because the DeLand area is not serviced extensively with transit, there is a need to put programs and facilities in place to make transit feasible as the population increases along selected corridors. Planning for transit will be a key initial effort by the City as the City looks for ways to reduce traffic congestion.

The SunRail station and VOTRAN, along with the interstate will be the main connectors to outside the DeLand region. Express connections from downtown to the station will provide quick access between the downtown and SunRail. This will be important to allow people who live outside of the City, but work downtown, to use SunRail. If rail or other type of facility is installed along I-4, the interchange at SR 472 will become a key regional hub for all of southwest Volusia County and the City needs to have excellent links to the interchange.



Historic DeLand Station

## Airport:

The airport is an excellent amenity to the DeLand region. The airport will continue to support the surrounding industrial uses as well as expand to handle even more freight and private aircraft. As the employment base grows at the airport, direct transit connections to downtown will be created. The airport is to remain an attraction for tourism and sport or recreational activities.

### **Bicycling/walking:**

Non-motorized modes of transportation will receive more of a priority throughout the region and especially inside the multi-modal district under the Transportation Plan. Trail systems will connect to major recreational facilities. Commercial areas will provide bicycle parking and roadways will become more bicycle friendly by increasing the number of trails and creating an on-street bike network. These routes will include connections between adjacent uses. Buses will be equipped with bicycle racks.

Pedestrians will have safe routes between neighborhoods and to neighborhood commercial nodes. Key pedestrian facilities will have wider sidewalks, better lighting, benches, shade, and other amenities.

### **Road Projects:**

The following road projects are proposed to expand the current thoroughfare system to complete the area's road network:

- a. Beresford Avenue extension from Blue Lake Avenue to SR 44
- b. West parkway connecting Spring Garden Road to Hamilton Avenue (in Orange City)
- c. Kepler Road/Martin Luther King Blvd improved to accommodate trucks from I-4 to the industrial parks at the airport, includes intersection of Kepler Road and SR 44
- d. New connection to airport from SR 11
- e. SR 44 improvements: four lanes from Grand Av to SR 15A and Voorhis Avenue to Kepler Road (includes intersection)

### **Transit Oriented Development:**

Since public transportation as well as bicycles and walking are a major part of the future transportation network for the DeLand area, this transportation plan includes the creation of Transit Oriented Developments (TOD). TOD's are a type of development pattern that are either located around mass transit centers or along corridors that are at a density and intensity that makes it feasible to ultimately be served by public transportation.




---

*"Commercial areas will provide bicycle parking and roadways will become more bicycle friendly...."*




---

*"TOD's are a type of development pattern that are either located around mass transit centers or along corridors...."*

TOD's are proposed at the following locations:

Around the SunRail station as a transit village

Downtown (area listed as Traditional City Center on the map) – because the downtown and surrounding area was developed in a grid pattern, it will be fairly easy to transform it into a multi-modal transportation district.

Seven major roadway segments are identified as potential transit-planned corridors to support a bus network that will serve the entire DeLand region:

Transit-planned corridors:

US 17 from US 92 to SR 11

US 17/92, north – between US 92 and Plymouth Ave

US 17/92, south – between SR 15A to SR 472

SR 44 – between Grand Ave and downtown

SR 44 – between downtown and Kepler Rd

Optional Transit-planned corridors:

US 92 – from US 17 to Central Parkway

CR 92 – SR 15A to US 17/92

The corridors and TOD's are to be compatible with any existing development. Sections of these corridors will be developed quite intensively, but others will be oriented to residential in appearance (such as sloped roof, single hung windows, etc.) and not to exceed two stories with a density not to exceed 12 du/ac. to reflect adjacent structures.

## D. Transportation Guidelines

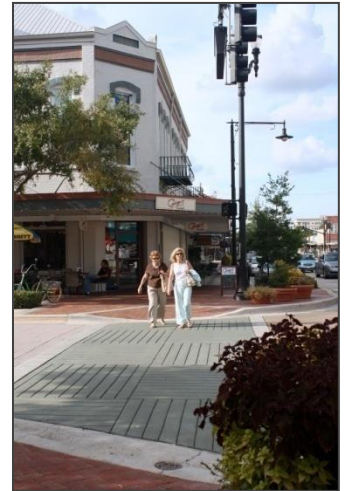
In addition to a map that shows the transportation system there are also guidelines that help direct the implementation of the plan and develop a transportation system to manage traffic to prevent congestion beyond acceptable levels. Below are the guidelines that will be used in conjunction with the 2050 Transportation Plan:



*A transit circulator to serve around downtown and/or localized routes*



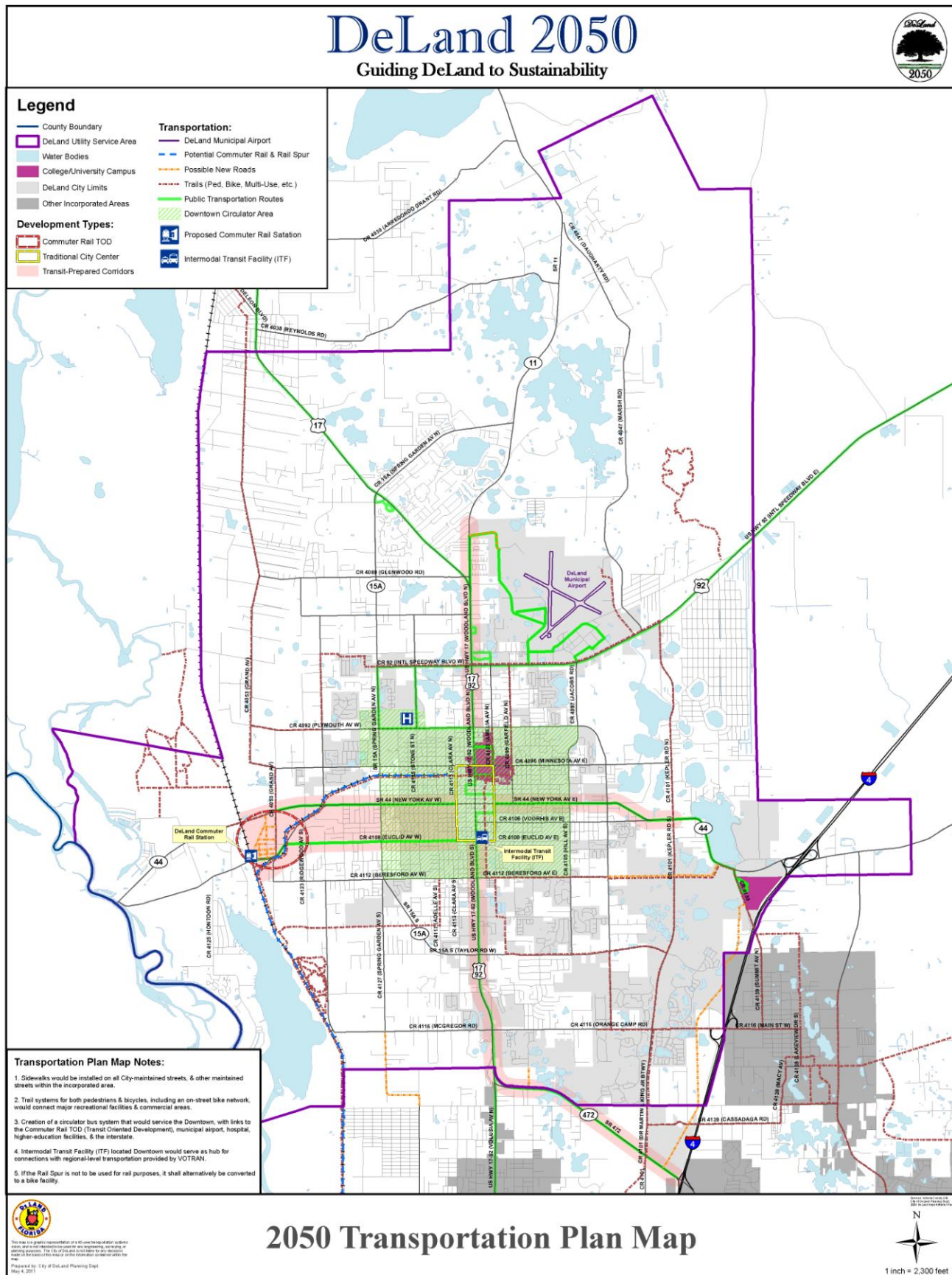
1. Keep connected with regional transportation network, primarily SunRail and I-4.
2. Establish regional transit network of routes for the TOD's and planned transit corridors along with travel throughout the southwest region.
3. Provide that new development promotes transit styled villages and transit planned corridors at identified locations; such as the commuter rail station area developing as a Transit Oriented Development (TOD).
4. Create fast links from commuter rail station into downtown by auto, bus or train.
5. Develop a transit circulator to serve downtown and/or localized routes that provides connection to the regional system.
6. Continue to manage the airport to increase capacity for freight and private planes that support the industrial parks.
7. Encourage walking by creating neighborhood business centers and improving pedestrian atmosphere through safety and aesthetic measures.
8. Encourage biking by constructing a complete network with trails, lanes and on-road routes.
9. Encourage the mixing of land uses (commercial, residential, recreational, educational, public, open space, and others) that can encourage foot and bike modes of transportation through the interconnection between all businesses and neighborhoods.
10. Create walkable communities – pedestrian-friendly features include types of development, design of buildings, shade for sidewalks, defined crosswalks, etc.
11. Develop a transportation system that includes all modes of transportation for the area because roads alone will not handle the needs of the community.
12. Refocus from road building to alternative modes of transportation (i.e., transit, Sun Rail), by developing or advocating for transportation and mobility options that support economic activity.




---

*“Encourage walking by creating neighborhood business centers and improving pedestrian atmosphere through safety and aesthetic measures.”*

- 13.** Create connectivity by allowing people the ability to move between major developments without necessarily entering the major road network. Completing sidewalks & trails between destinations and neighborhoods; thus creating walkable destinations.
- 14.** Establish a multi-modal transportation district to provide an interconnected transportation system to serve the urban core area.





## Attachments

**Intermodal Transportation Facility (ITF)** – a transportation facility that combines several modes of transportation at one facility. The DeLand ITF will combine bus, bicycles, walking and parking together in a centralized location to make these modes convenient to the end user.

**Multi-Modal Transportation District** – A multimodal transportation district is to facilitate the use of multiple modes of transportation, leading to a reduction in automobile use and vehicle miles traveled. Local governments may designate a multimodal transportation district by amending the comprehensive plan to show the district on a future land use map. The designation of such districts recognizes the inherent, integral relationship between transportation, land use, and urban design.

This concept is suggested for the urban core area to link all the different type of transportation together under one designation and by doing this the following characteristics can be accomplished:

- Provision of a complementary mix of land uses, including residential, educational, recreational, and cultural uses
- Provision of an interconnected network of streets designed to encourage walking and bicycling use with traffic calming where desirable
- Provision of appropriate densities and intensities of land uses within walking distance of transit stops
- Provision of daily activities within walking distance of residences; public infrastructure that is safe, comfortable, and attractive for pedestrians; adjoining buildings open to the street; and parking facilities structured to avoid conflict with pedestrian, transit, automobile, and truck travel.
- Provision of transit service within the designated area, or a definitive commitment to the provision of transit. This definitive commitment should be found in local planning documents and in the approved capital improvements program. For new developments, transit connectivity to the major urban area must also be included, or a definitive commitment for transit connections, again evident in both planning documents and the approved capital improvement program.

**RESOLUTION NO. 2011-87**

**A RESOLUTION OF THE CITY COMMISSION OF DELAND, FLORIDA, OFFICIALLY RECOGNIZING THE DELAND 2050 PLAN; PROVIDING FOR APPROPRIATE CONSIDERATION THEREOF IN FUTURE LEGISLATIVE LAND USE DECISIONS; AND PROVIDING FOR AN EFFECTIVE DATE.**

**WHEREAS**, the DeLand Planning Board and City Commission held joint public workshops to discuss and develop an initial vision for the future development of the DeLand community based on Smart Growth principles and sustainability; and

**WHEREAS**, the City of DeLand held numerous community and stakeholder meetings and conducted various surveys in order to provide comments on the initial vision for the development of the DeLand community over the next 40 years; and

**WHEREAS**, in due consideration of the findings of those community meetings and surveys, the DeLand Planning Board and City Commission held joint public workshops to discuss a vision for the future development of the DeLand community; and

**WHEREAS**, the foregoing process culminated in a document entitled the DeLand 2050 Plan (hereinafter referred to as the "Plan"), a copy of which is attached hereto; and

**WHEREAS**, the Plan is not a part of the City's Comprehensive Plan or Land Development Regulations, and does not otherwise constitute a binding law or regulation of the City of DeLand, and this resolution should not be construed as the adoption of any law, rule or regulation of the City of DeLand, nor should it be construed in any way to affect the permitted uses to which any property depicted in the Plan can be used; and

**WHEREAS**, the City Commission finds that it is in the best interest of the health, welfare and safety of its present and future citizens that the Plan be considered wherever and whenever it is appropriate to do so in legislative decision making processes concerning the future growth and development of the DeLand community; and

**WHEREAS**, it is the desire of the City Commission of the City of DeLand that the Plan be given due consideration when future legislative land use recommendations and decisions are being considered.

**NOW, THEREFORE BE IT RESOLVED BY THE CITY COMMISSION OF DELAND, FLORIDA:**

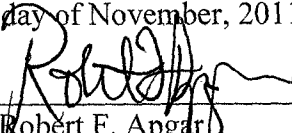
**Section 1.** The foregoing preamble is found to be correct and is hereby incorporated herein by reference.

**Section 2.** The attached DeLand 2050 Plan is hereby officially recognized, and the City Commission of the City of DeLand hereby declares its intentions for the consideration to be given the said Plan, as more particularly set forth in the preamble to this Resolution.

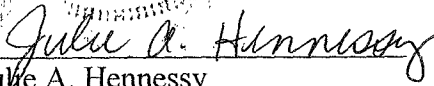
**Section 3.** If any section, sentence, clause or phrase of this Resolution is held to be invalid or unconstitutional by any court of competent jurisdiction, that holding shall in no way affect the remaining portions of this Resolution.

**Section 4.** This Resolution shall become effective immediately upon its adoption.

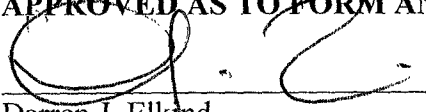
**PASSED AND DULY ADOPTED** this 21<sup>st</sup> day of November, 2011.

  
Robert F. Apgar  
Mayor-Commissioner

**ATTEST:**

  
Julie A. Hennessy  
City Clerk - Auditor

**APPROVED AS TO FORM AND LEGALITY:**

  
Darren J. Elkind  
City Attorney



**CITY OF DELAND**  
**Request for Commission Action**  
**July 17, 2023**

**SUBJECT:** Resolution Setting the Proposed Millage Rate for Fiscal Year 2023-2024.

**DEPARTMENT:** Finance

**PREPARED BY:** Daniel Stauffer, Finance Director

**ATTACHMENTS:** Resolution

**APPROVED BY:** Michael Pleus, City Manager, July 13, 2023

---

**SUMMARY/HIGHLIGHT:**

The certification of property tax values by the Volusia County Property Appraiser on July 1st provides a taxable value of \$3,056,153,452, of which \$145,091,519 is considered taxable new construction and annexation values. This represents an approximate 15.09% increase from the final taxable value from the prior year. The rolled-back rate is the rate that produces the same amount of revenue as received in the current fiscal year. The estimated rolled-back rate for the tax year 2023 is 6.0252 mills.

**STRATEGIC PLAN FOCUS AREA/ACTION STEP:**

**SUSTAINABILITY:**

N/A

**FISCAL IMPACT:**

The millage rate proposed for operating purposes is 6.4841. This is a decrease of 0.1 mills in the operating millage rate from FY 22-23. The proposed operating millage of 6.4841 is 7.62% above the rolled-back millage rate of 6.0252. The total ad valorem tax revenue is \$118,171,405 for FY 22-23, with the General Fund receiving \$17,610,915 and the Capital Fund receiving \$560,491.

**RECOMMENDATION:**

Staff recommends that the City Commission establish the proposed millage rate at 6.4841 mills for operating purposes and instruct the Property Appraiser to advertise the rate in the "TRIM" Notice to DeLand's taxpayers and establish the dates and times for the first public hearing on Wednesday, September 6th at 7:00 p.m. and the final public hearing on Monday, September 18th at 7:00 p.m.

**BACKGROUND/DISCUSSION:**

The Truth in Millage Act (TRIM) requires the City to advise the Property Appraiser, by August 1st, of the proposed millage rate, as well as the date, time and place of the budget hearings. The Property Appraiser is then required to mail a "Notice of Proposed Property Taxes" (TRIM Notice) to each property owner. The first budget hearing will need to be scheduled for the first City Commission meeting in September (September 7th), at which time a public hearing will be held on the tentative millage and budget. The tentative millage rate cannot exceed the proposed millage rate presented in the "TRIM Notice" without notification of the increase to each taxpayer by first class mail at the City's expense. The City Commission may, however, reduce the tentative millage rate during the public hearing held in September.

A comparison of the millage rates for the prior year and the proposed budget is as follows:

|              | <b>FY 23-24</b> | <b>FY 22-23</b> | <b>Change</b> | <b>%<br/>Change</b> |
|--------------|-----------------|-----------------|---------------|---------------------|
| Operating    | 6.4841          | 6.5841          | -0.1000       | -1.52%              |
| Debt Service | <u>0.0000</u>   | <u>0.0000</u>   | <u>0.0000</u> | <u>0.00%</u>        |
| Total        | 6.4841          | 6.5841          | -0.1000       | -1.52%              |

The City does not have a debt service millage rate due to the payoff of the general obligation debt during FY 2018-2019.

**RESOLUTION NO. 2023 –**

**A RESOLUTION OF THE CITY COMMISSION OF DELAND, FLORIDA, ADOPTING  
A PROPOSED MILLAGE RATE FOR FISCAL YEAR 2023-2024; AND PROVIDING AN  
EFFECTIVE DATE.**

**WHEREAS**, the City of DeLand is required by Florida Statute Section 200.065(2) to adopt a Resolution setting the millage rate to be levied; and

**WHEREAS**, the Statute further requires that the Resolution shall state the percent, if any, by which the millage rate to be levied exceeds the rolled-back rate as computed by the Office of the Property Appraiser of Volusia County; and

**WHEREAS**, the City Commission of the City of DeLand does intend to adopt a proposed operating millage rate of 6.4841 mills which is 7.62% more than the estimated rolled back rate of 6.0252; and

**WHEREAS**, each taxpayer within the corporate limits of DeLand will be sent notice by first class mail by the Property Appraiser of the public hearing setting the tentative millage rate and proposed budget; and

**WHEREAS**, a tentative budget hearing on the millage rate has been scheduled for 7:00 p.m. at the City Hall Commission Chambers on September 6, 2023, and the final public hearing has been scheduled for 7:00 p.m. at the City Hall Commission Chambers on September 18, 2023; and

**WHEREAS**, it is necessary for the City to approve and adopt its proposed millage rate for the fiscal year 2023-2024.

**NOW, THEREFORE, BE IT RESOLVED BY THE COMMISSION OF DELAND, FLORIDA:**

**Section 1.** The City Commission of the City of DeLand hereby adopts a 6.4841 proposed operating millage rate.

**Section 2.** The proposed operating millage rate hereby adopted is 0.4589 more than the estimated rolled back rate.

**Section 3.** Any resolution or part of resolution in conflict herewith is hereby repealed.

**Section 4.** This Resolution shall become effective upon its adoption.

**PASSED AND DULY ADOPTED** this 17<sup>th</sup> day of July, 2023.

---

Christopher M. Cloudman  
Mayor – Commissioner

**ATTEST:**

---

Julie A. Hennessey  
City Clerk – Auditor

**APPROVED IN FORM AND LEGALITY:**

---

Darren J. Elkind  
City Attorney



**CITY OF DELAND**  
**Request for Commission Action**  
**July 17, 2023**

**SUBJECT:** Consideration re First Amendment to Lease, 417 South Palmetto Avenue.

**DEPARTMENT:** Legal

**PREPARED BY:** Darren Elkind, City Attorney

**ATTACHMENTS:** First Amendment to Lease

**APPROVED BY:** Michael Pleus, City Manager, July 11, 2023

---

**SUMMARY/HIGHLIGHT:**

On November 19, 2018, the City and the Neighborhood Center entered into a lease for the home located at 417 South Palmetto Avenue so that the Neighborhood Center could provide transitional housing (a.k.a. The Home House). The City and the Neighborhood Center propose to extend the lease term for an additional five (5) years.

**STRATEGIC PLAN FOCUS AREA/ACTION STEP:**

High value Government

**SUSTAINABILITY:**

N/A

**FISCAL IMPACT:**

There is no fiscal impact from this extension of the existing lease.

**RECOMMENDATION:**

It is recommended that the City Commission approve the attached amendment to the lease agreement.

**BACKGROUND/DISCUSSION:**

The subject property was purchased and renovated by the City almost exclusively with funds from a HOME grant administered by Volusia County. The City leases the home to the Neighborhood Center, which provides transitional housing in accordance with HOME grant funding requirements. Article 2.1 of the lease provides the term was for five years beginning January 1, 2019, and ending December 31, 2023. Article 2.2 of the lease provides that the lease may only be extended pursuant to a written agreement between the City and Neighborhood Center. The proposed lease amendment therefore extends the term by five years from its expiration, with the new term beginning January 1, 2024, and ending December 31, 2028.

## **FIRST AMENDMENT TO LEASE 417 SOUTH PALMETTO AVENUE**

This First Amendment to Lease for the property located at 417 South Palmetto Avenue is made and entered into by and between the City of DeLand, a Florida municipal corporation with a mailing address of 120 S. Florida Avenue, DeLand, Florida 32720 (“City”) and the Neighborhood Center of West Volusia, Inc., a Florida not-for-profit corporation with a mailing address of 434 S. Woodland Boulevard, DeLand, Florida 32720 (“Neighborhood Center”).

Whereas, the City and the Neighborhood Center entered into that certain Lease Agreement dated November 19, 2018 for the lease of the real property located at 417 South Palmetto Avenue, DeLand, Volusia County, Florida (the “Lease”); and

Whereas, pursuant to Article 2.1 of the Lease, the term of the Lease was a five (5) year term commencing on January 1, 2019 and ending on December 31, 2023; and

Whereas, pursuant to Article 2.2 of the Lease, the term of the Lease may only be extended by written agreement of the City and the Neighborhood Center; and

Whereas, the City and the Neighborhood Center desire to amend the Lease to extend the term for an additional five (5) years, starting January 1, 2024 and ending December 31, 2028.

Now, Therefore, for good and valuable consideration, the City and the Neighborhood Center agree to amend the Lease as follows:

1. Article 2.1 of the Lease, entitled “Term of Lease” is hereby to provide that the term of the Lease is extended for an additional five (5) year period commencing on January 1, 2024 and ending on December 31, 2028.

2. All other provisions of the Lease, except as set forth herein, shall remain in full force and effect.

\*\*\* Signatures on following page \*\*\*

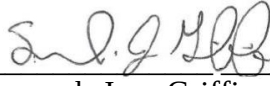
EXECUTED by the Neighborhood Center this 3 day of July, 2023.

EXECUTED by the City this \_\_\_ day of \_\_\_\_\_, 2023.

CITY OF DELAND

NEIGHBORHOOD CENTER OF  
WEST VOLUSIA, INC.

By: \_\_\_\_\_  
Christopher M. Cloudman  
Mayor-Commissioner

By:  \_\_\_\_\_  
Savannah-Jane Griffin  
Chief Executive Officer

ATTEST:

\_\_\_\_\_  
Julie A. Hennessy  
City Clerk-Auditor



**CITY OF DELAND**  
**Request for Commission Action**  
**July 17, 2023**

**SUBJECT:** Consideration re First Amendment to City of DeLand Homeless Services Day Center and Shelter Management Agreement.

**DEPARTMENT:** Legal

**PREPARED BY:** Darren Elkind, City Attorney

**ATTACHMENTS:** First Amendment to City of DeLand Homeless Services Day Center and Shelter Management Agreement

**APPROVED BY:** Michael Pleus, City Manager, July 11, 2023

---

**SUMMARY/HIGHLIGHT:**

On November 20, 2017, the City and the Neighborhood Center entered into the City of DeLand Homeless Services Day Center and Shelter Agreement for the Neighborhood Center to provide homeless services and manage the homeless shelter, the Bridge, for a term of five (5) years. The Neighborhood Center has been operating under the agreement since its expiration last November. The City and the Neighborhood Center wish to extend the term of the written agreement until September 30, 2027 and also wish to clarify the respective maintenance responsibilities of the City and the Neighborhood Center.

**STRATEGIC PLAN FOCUS AREA/ACTION STEP:**

High Value Government.

**SUSTAINABILITY:**

N/A

**FISCAL IMPACT:**

There is no direct fiscal impact from this agreement.

**RECOMMENDATION:**

It is recommended that the City Commission approve the attached First Amendment to City of DeLand Homeless Services Day Center and Shelter Management Agreement.

**BACKGROUND/DISCUSSION:**

The Neighborhood Center runs the Bridge for the City pursuant to the attached agreement. The Neighborhood Center has done a wonderful job and desires to continue running the Bridge. Accordingly, the parties propose to renew the agreement. In addition, City staff thought it was prudent to clarify in the agreement the respective responsibilities of the parties with regard to maintenance. The revised provision does not create any major changes relative to maintenance responsibilities.

## **FIRST AMENDMENT TO CITY OF DELAND HOMELESS SERVICES DAY CENTER AND SHELTER MANAGEMENT AGREEMENT**

This FIRST AMENDMENT TO CITY OF DELAND HOMELESS SERVICES DAY CENTER AND SHELTER MANAGEMENT AGREEMENT (the “First Amendment”) is made and entered into by and between the City of DeLand, a Florida municipal corporation with a mailing address of 120 S. Florida Avenue, DeLand, Florida 32720 (“City”) and the Neighborhood Center of West Volusia, Inc., a Florida not-for-profit corporation with a mailing address of 434 S. Woodland Boulevard, DeLand, Florida 32720 (“Neighborhood Center”).

Whereas, the City and the Neighborhood Center entered into that certain City of DeLand Homeless Services Day Center and Shelter Management Agreement dated November 20, 2017 (the “Management Agreement”); and

Whereas, the City and the Neighborhood Center desire to amend the Management Agreement to extend the term for an additional five (5) years and to revise and clarify the respective maintenance responsibilities of the City and the Neighborhood Center.

Now, Therefore, for good and valuable consideration, the City and the Neighborhood Center agree to amend the Management Agreement as follows:

1. Section 2 of the Management Agreement, entitled “Term,” is hereby revised to provide that the term of the Management Agreement is extended, *nunc pro tunc*, from its termination date until September 30, 2027.

2. Section 3 of the Management Agreement, entitled “Duties of Manager,” subsection a.2), is hereby amended to read, in full, as follows:

2) Provide routine maintenance, including but not limited to, lawn maintenance, pest control, and routine maintenance. By way of example and not limitation, routine maintenance includes changing light bulbs (but not light fixtures), tightening fittings on leaky plumbing fixtures, unclogging toilets, making minor drywall repairs, repairing and/or replacing interior door locks and hardware, and other similar maintenance issues. In the event that a problem arises that requires immediate attention and professional services are needed for maintenance repairs (i.e. flooding, elevator malfunction, etc.), the Manager will immediately contact the City but may also make arrangements for immediate resolution. The Manager shall NOT be required to perform any maintenance of the HVAC systems, but shall be required to immediately report any HVAC issues or problems to the City. All repairs not required to be performed by the Manager shall be performed by the City or its designated contractor.

3. Section 6 of the Management Agreement, entitled "Compensation of Manager," is hereby amended by deleting from the second paragraph regarding the elements of the quarterly report, the fourth bullet point which currently reads "Maintenance (which shall include copies of any non-recurring expenses such as repairs)" and amending the sixth bullet point, which currently reads "Miscellaneous expenses," to read, in full, as follows: "Miscellaneous expenses (which shall include, but not be limited to, the purchase of cleaning supplies and materials for maintenance and minor repairs)."

4. All other provisions of the Management Agreement, except as set forth in this First Amendment, shall remain in full force and effect.

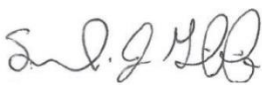
EXECUTED by the Neighborhood Center this 3 day of July, 2023.

EXECUTED by the City this \_\_\_\_ day of \_\_\_\_\_, 2023.

CITY OF DELAND

NEIGHBORHOOD CENTER OF  
WEST VOLUSIA, INC.

By: \_\_\_\_\_  
Christopher M. Cloudman  
Mayor-Commissioner

By:  \_\_\_\_\_  
Savannah-Jane Griffin  
Chief Executive Officer

ATTEST:

\_\_\_\_\_  
Julie A. Hennessy  
City Clerk-Auditor