



**APOPKA CITY COUNCIL AGENDA**  
**April 20, 2016 7:00 PM**  
**APOPKA CITY HALL COUNCIL CHAMBERS**

**CALL TO ORDER**

**INVOCATION - Pastor Jason Henderson of Grace Pointe Church**  
**PLEDGE**

Please submit a "Notice of Intent to Speak card" to the City Clerk. Action may not be taken by the Council at this meeting but questions may be answered by staff or issues may be referred for appropriate staff action. If further action is necessary, the item may be placed on the agenda for further review and consideration. NOTE: Zoning or code enforcement matters which may be coming before the Board at a later date should not be discussed until such time as they come before the Board in a public hearing.

Pursuant to F.S. 286.0114, members of the public shall be given a reasonable opportunity to be heard on propositions before the City Council. Accordingly, comments, questions, and concerns regarding items listed on this agenda shall be received at the time the City Council addresses such items during this meeting. Public comments are generally limited to four minutes.

**APPROVAL OF MINUTES:**

1. City Council meeting April 06, 2016.

**PUBLIC/STAFF RECOGNITION AND ACKNOWLEDGEMENT**

Presentations:

1. Check presentation to Boy Scout Troop 211 for Parking at Old Florida Outdoor Festival
2. Update on *Apopka Begins and Ends with "A"* Program

Mayor Kilsheimer  
Mayor Kilsheimer

**CONSENT (Action Item)**

1. Approve the Disbursement Report for the month of March, 2016.
2. Approve the appointment of Roger Simpson to the Planning Commission.
3. Approve the purchase of body worn cameras.
4. Authorize a scoreboard & windscreen sponsorship from Modern Orthodontics.
5. Authorize Public Services to reallocate funds in the 2015-2016 approved budget.
6. Award a contract for Domestic Wastewater Residuals Transport to Shelley's Environmental Systems.
7. Award contracts to PRMG for a Police, Fire/EMS, and Parks & Recreation Impact Fee Studies.
8. Authorization to engage in negotiations for a Construction Manager at Risk for the Water Reclamation Facility Expansion.

**PUBLIC HEARINGS/ORDINANCES/RESOLUTION (Action Item)**

- |   |            |
|---|------------|
| 1. Ordinance 2476 – Second Reading – 2016-1 Administrative Rezoning - Quasi-Judicial  | David Moon |
| 2. Ordinance 2477 – Second Reading – 2016-1 Administrative Rezoning - Quasi-Judicial  | David Moon |
| 3. Ordinance 2478 – Second Reading – 2016-1 Administrative Rezoning - Quasi-Judicial  | David Moon |
| 4. Ordinance 2479 – Second Reading – 2016-1 Administrative Rezoning - Quasi-Judicial  | David Moon |
| 5. Ordinance 2480 – Second Reading – 2016-1 Administrative Rezoning - Quasi-Judicial  | David Moon |
| 6. Ordinance 2481 – Second Reading – 2016-1 Administrative Rezoning - Quasi-Judicial  | David Moon |
| 7. Ordinance 2482 – Second Reading – 2016-1 Administrative Rezoning - Quasi-Judicial  | David Moon |
| 8. Ordinance 2492 – Second Reading – Amending the Apopka Land Development Code & update the Utilities Design and Construction Standards Manual. | Jay Davoll |
| 9. Ordinance 2493 – First Reading – Change of Zoning - Quasi-Judicial   | David Moon |
| 10. Ordinance 2494 – First Reading – Annexation   | David Moon |
| 11. Ordinance 2495 – First Reading – Annexation   | David Moon |

**BUSINESS (Action Item)**

1. Ratify the Certificate of Official Election Results.
2. Council
3. Public

Linda Goff

**MAYOR'S REPORT**

**ADJOURNMENT**

**MEETINGS AND UPCOMING EVENTS**

DATE	TIME	EVENT
April 23, 2016	8:00am – 2:00pm	Krazy Kids Inflatable Fun Run – Northwest Recreation Complex
April 23, 2016	9:00am – 5:00pm	55 <sup>th</sup> Annual Apopka Art & foliage Festival – Kit Land Nelson Park
April 24, 2016	10:00am – 4:00pm	55 <sup>th</sup> Annual Apopka Art & foliage Festival – Kit Land Nelson Park
April 26, 2016	12:00pm – 3:00pm	Oath of Office Ceremony – Apopka Community Center
April 30, 2016	10:00am – 2:00pm	Public Safety Day – Northwest Recreation Complex
May 1, 2016	12:30pm – 2:00pm	MLB Pitch, Hit, & Run Sectional Competition – Northwest Recreation Complex
May 4, 2016	1:30pm –	City Council Meeting
May 5, 2016	5:30pm – 9:00pm	Food Truck Round Up – Kit Land Nelson Park
May 7, 2016	12:00pm – 9:00pm	Cinco de Mayo Event – Northwest Recreation Complex
May 10, 2016	5:30pm – 6:00pm	Planning Commission Meeting
May 18, 2016	7:00pm – 10:00pm	City Council Meeting

Individuals with disabilities needing assistance to participate in any of these proceedings should contact the City Clerk at least two (2) working days in advance of the meeting date and time at (407) 703-1704. F.S. 286.0105 If a person decides to appeal any decision or recommendation made by Council with respect to any matter considered at this meeting, he will need record of the proceedings, and that for such purposes he may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based.

Any opening invocation that is offered before the official start of the Council meeting shall be the voluntary offering of a private person, to and for the benefit of the Council. The views or beliefs expressed by the invocation speaker have not been previously reviewed or approved by the City Council or the city staff, and the City is not allowed by law to endorse the religious or non-religious beliefs or views of such speaker. Persons in attendance at the City Council meeting are invited to stand during the opening ceremony. However, such invitation shall not be construed as a demand, order, or any other type of command. No person in attendance at the meeting shall be required to participate in any opening invocation that is offered or to participate in the Pledge of Allegiance. You may remain seated within the City Council Chambers or exit the City Council Chambers and return upon completion of the opening invocation and/or Pledge of Allegiance if you do not wish to participate in or witness the opening invocation and/or the recitation of the Pledge of Allegiance.

**Backup material for agenda item:**

1. City Council meeting April 06, 2016.

## CITY OF APOPKA

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**Minutes of the regular City Council meeting held on April 6, 2016, at 1:30 p.m., in the City of Apopka Council Chambers.**

**PRESENT:** Mayor Joe Kilsheimer  
Commissioner Bill Arrowsmith  
Commissioner Billie Dean  
Commissioner Diane Velazquez  
Commissioner Sam Ruth  
City Attorney Cliff Shepard  
City Administrator Glenn Irby

**PRESS PRESENT:** Theresa Sargeant - The Apopka Chief  
Bethany Rodgers, Orlando Sentinel  
Dale Fenwick, The Apopka Voice

**INVOCATION:** Mayor Kilsheimer introduced Reverend John Fisher, First United Methodist Church of Apopka, who gave the invocation.

**PLEDGE OF ALLEGIANCE:** Mayor Kilsheimer said on April 12, 1513, near present day St. Augustine, Spanish explorer Juan Ponce de Leon, made landfall on the Florida coast and claimed the territory for the Spanish crown. He named the new land, which he believed to be an island, La Florida because the discovery came during the time of the Easter feast. Ponce de Leon returned seven years later to establish a colony, but retreated to Cuba when his expedition was attacked by Native Americans. A successful Spanish colony was not established until some 44 years later in 1565, and in 1819 the territory passed to the United States as part of the Florida purchase treaty between Spain and the United States. He asked everyone to reflect upon the bravery and pioneering spirit of our early explorers and settlers as he led in the Pledge of Allegiance.

### **APPROVAL OF MINUTES:**

1. City Council Regular meeting March 16, 2016.

**MOTION by Commissioner Ruth, and seconded by Commissioner Arrowsmith, to approve the March 16, 2016 City Council minutes. Motion carried unanimously with Mayor Kilsheimer, and Commissioners Arrowsmith, Dean, Velazquez, and Ruth voting aye.**

### **PUBLIC/STAFF RECOGNITION AND ACKNOWLEDGEMENT**

#### **Proclamations:**

1. National Telecommunicator Week – Mayor Kilsheimer read a proclamation acknowledging National Telecommunicator Week, and presented it to Donna Saladin, Director, and to the Communications Center staff.

#### **Employee Recognition:**

1. **Ten Year Service Award – William “Billy” Bakle – Public Services/Waste Water Plants Plant Mechanic** – Billy began working for the City on March 13, 2006, as Plant Mechanic, which is his current position. Billy was not present and his award will be presented to him at

another time.

2. **Ten Year Service Award – Thomas “Tom” Muchow – Public Services/Waste Water Plants Instrumentation Technician** –Tom started working for the City on March 13, 2006, as Instrumentation Technician, which is his current position. The Commissioners joined Mayor Kilsheimer in congratulating Tom for his years of service to the City.
3. **Ten Year Service Award – Steven “Steve” Williams – Community Development/Building Multiple Code Inspector** – Steve began working for the City on March 13, 2006, as a Utilities Electrician for the Waste Water Plant. On October 7, 2015, he was transferred to the Building division and his title changed to Multiple Code Inspector, which is his current position. The Commissioners joined Mayor Kilsheimer in congratulating Steve for his years of service to the City.
4. **Ten Year Service Award – Sandra “Sandy” Kerrigan – Police/Support Services** Sandy started working for the City on March 20, 2006, as Secretary I for the Fire Chief’s Office. On May 29, 2007, Sandy was reclassified to Secretary II. She was reclassified and transferred on October 1, 2007, to Mayor’s Secretary. In June 2014, Sandy transferred to the Police Department as Code Enforcement Secretary, which is her current position. The Commissioners jointed Sandy in congratulating her for her years of service to the City.
5. **Fifteen Year Service Award – Darryl Wesson – Public Services/Utility Construction Utility Service Worker II** – Darryl began working for the City on March 5, 2001, as a Utility Service Worker I. On March 11, 2002, he was reclassified to Utility Service Worker II, which is his current position. The Commissioners joined Mayor Kilsheimer in congratulating Darryl for his years of service to the City.

Presentation:

**1. Evaluation of existing stop signs and speed limit signs**

Jay Davoll, Public Services Director, gave a presentation of existing stop signs and speed limit signs in the area west of Park Avenue, south of Myrtle Street, east of Hawthorne Avenue, and north of Main Street/US 441. He advised there were a total of twenty-one intersections in this area, and ten are currently “all stop” intersections. He stated the request was to evaluate what would be required to make all intersections four-way stops. He said this would require twenty-two new stop signs to be installed to accomplish this at a cost of \$4,400.

In response to Commissioner Dean inquiring about a stop sign where Michael Gladden Boulevard intersects with Park Avenue (435), Mr. Davoll said to accommodate that it would require an engineering study. He advised the Manual of Uniform Traffic Control Devices (UMTCD) guidelines need to be followed to set up multiple stops. He stated that Park Avenue is an arterial road and would require an Orange County study. Commissioner Dean also questioned a traffic signal at the intersection of Michael Gladden Boulevard and Central Avenue to which Mr. Davoll advised this would also take a study and he would place it on a list to evaluate this intersection.

Mr. Davoll said for the requested area, he has traffic counts back for twenty-three years and they have not changed significantly and are almost identical. He went on to report on speed limit signs for the area requested to evaluate. He advised there are a total of twenty-eight sp

limit signs in this area, thirteen are 30 mph signs, and fifteen are 25 mph signs. He proposed removing all twenty-eight signs and replace them with thirteen new 25 mph signs and reviewed a map for the proposed locations. He pointed out it is highly emphasized in the MUTCD that stop signs are not intended for speed control. Also, to install stop signs, there should be an engineering study done.

Commissioner Ruth suggested increasing the speed limit signs to eighteen signs, including signs where the traffic turns off of SR 441.

Mr. Davoll said to clarify, the speed limit signs will be moved forward on as the budget allows. However, the stop signs were for informational purposes only and there is no plan to move forward with that at this time.

Mr. Irby advised it would take a budget revision to cover the cost of signage. Staff was requested to do an inventory and not necessarily make a recommendation. He has completed the inventory and has indicated that the traffic code emphasizes you are not supposed to use stop signs to regulate the speed of traffic. However, these are local streets that belong to the city and Council can dictate and vote that stop signs be placed there if desired.

Dennis New expressed concern regarding the high speed traffic that travels in this area. He said stop signs were not for speed control, but they were a deterrent for people not to use the neighborhood's street. He stated there were no sidewalks in the area and this was a safety issue with children walking to school.

Commissioner Arrowsmith said there were some clear priorities, such as Lake Street and Orange Street. He suggested they start out with five intersections and prioritize those.

**MOTION by Commissioner Ruth, and seconded by Commissioner Velazquez to approve a \$4,400 expenditure to put up stop signs as laid out in the proposal. Motion carried unanimously with Mayor Kilsheimer and Commissioners Arrowsmith, Dean, Velazquez, and Ruth voting aye.**

**CONSENT (Action Item)**

1. Authorize the Sewer and Water Capacity Agreement for Hilltop Reserve, Phase 3.
2. Authorize the Sewer and Water Capacity Agreement for Orchid Estates.
3. Approval for the sale of alcohol at the Food Truck Round Up through December 2016.
4. Approve the upgrade to the Sensus Automated Meter Reading System.
5. Authorize the purchase of an Asphalt Roller.
6. Authorize the purchase of Data Backup Appliances.
7. Approve the purchase of a replacement patrol vehicle for the police traffic unit.

**MOTION by Commissioner Arrowsmith, and seconded by Commissioner Dean, to approve the seven items on the Consent Agenda. Motion carried unanimously with Mayor Kilsheimer, and Commissioners Arrowsmith, Dean, Velazquez, and Ruth voting aye.**

**PUBLIC HEARINGS/ORDINANCES/RESOLUTION (Action Item)**

Mayor Kilsheimer said the first seven ordinances were Administrative Rezoning and quasi-judicial. Witnesses were sworn in by the clerk for these ordinances.

1. Ordinance No. 2476 – First Reading – 2016-1 Administrative Rezoning. The City Clerk read the title as follows:

David Moon, Planning Manager, gave a lead-in for the first seven ordinances to address Administrative Rezoning. He explained Administrative Rezoning is one where the City is the applicant to assign a zoning category for a property that has annexed into the city's jurisdiction within past years. This is being done to come into compliance with the state statutes and city code. In addition, the City has an interlocal agreement with Orange County addressing annexation of lands and one of those conditions is that within a certain time period after the property is annexed, a future land use designation and zoning will be assigned to the property. He advised each property owner was sent a letter of notification. Both the DRC and Planning Commissioner recommend approval.

**ORDINANCE NO. 2476**

**AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF APOPKA, FLORIDA, CHANGING THE ZONING FROM "COUNTY" A-1 (AGRICULTURE) TO "CITY" AG (AGRICULTURE) FOR CERTAIN REAL PROPERTIES GENERALLY LOCATED WITHIN THE CITY LIMITS OF APOPKA, COMPRISING 6.14 ACRES, MORE OR LESS, AND OWNED BY DONALD S. & KATHLEEN V. SMITHERS; PROVIDING FOR DIRECTIONS TO THE COMMUNITY DEVELOPMENT DIRECTOR, SEVERABILITY, CONFLICTS, AND AN EFFECTIVE DATE.**

Mayor Kilsheimer opened the meeting to a public hearing. No one wishing to speak, he closed the public hearing.

**MOTION by Commissioner Arrowsmith, and seconded by Commissioner Ruth, to approve Ordinance No. 2476 at First Reading and carry if over for a Second Reading. Motion carried unanimously with Mayor Kilsheimer, and Commissioners Arrowsmith, Dean, Velazquez, and Ruth voting aye.**

2. Ordinance No. 2477 – First Reading – 2016-1 Administrative Rezoning. The City Clerk read the title as follows:

**ORDINANCE NO. 2477**

**AN ORDINANCE OF THE CITY OF APOPKA, FLORIDA, CHANGING THE ZONING FROM "COUNTY" A-1 AND A-2 (ZIP) TO "CITY" AG (AGRICULTURE) FOR CERTAIN REAL PROPERTIES GENERALLY LOCATED WITHIN THE CITY LIMITS OF APOPKA, COMPRISING 13.32 ACRES, MORE OR LESS, AND OWNED BY ROBERT AND**

**JOYCE AYERS; JAMES AND PAMELIA WRIGHT; AND MICHAEL AND MELESSA HANDY; PROVIDING FOR DIRECTIONS TO THE COMMUNITY DEVELOPMENT DIRECTOR, SEVERABILITY, CONFLICTS, AND AN EFFECTIVE DATE.**

Mayor Kilsheimer opened the meeting to a public hearing. No one wishing to speak, he closed the public hearing.

**MOTION by Commissioner Ruth, and seconded by Commissioner Velazquez, to approve Ordinance No. 2477 at First Reading and carry if over for a Second Reading. Motion carried unanimously with Mayor Kilsheimer, and Commissioners Arrowsmith, Dean, Velazquez, and Ruth voting aye.**

3. Ordinance No. 2478 – First Reading – 2016-1 Administrative Rezoning. The City Clerk read the title as follows:

**ORDINANCE NO. 2478**

**AN ORDINANCE OF THE CITY OF APOPKA, FLORIDA, CHANGING THE ZONING FROM “COUNTY” C-1 (ZIP) AND A-1 (ZIP) TO “CITY” PO/I (PROFESSIONAL OFFICE/INSTITUTION) FOR CERTAIN REAL PROPERTIES GENERALLY LOCATED WITHIN THE CITY LIMITS OF APOPKA, COMPRISING 19.35 ACRES, MORE OR LESS, AND OWNED BY TRINITY BAPTIST CHURCH OF APOPKA; PROVIDING FOR DIRECTIONS TO THE COMMUNITY DEVELOPMENT DIRECTOR, SEVERABILITY, CONFLICTS, AND AN EFFECTIVE DATE.**

Mayor Kilsheimer opened the meeting to a public hearing. No one wishing to speak, he closed the public hearing.

**MOTION by Commissioner Dean, and seconded by Commissioner Arrowsmith, to approve Ordinance No. 2478 at First Reading and carry if over for a Second Reading. Motion carried unanimously with Mayor Kilsheimer, and Commissioners Arrowsmith, Dean, Velazquez, and Ruth voting aye.**

4. Ordinance No. 2479 – First Reading – 2016-1 Administrative Rezoning. The City Clerk read the title as follows:

**ORDINANCE NO. 2479**

**AN ORDINANCE OF THE CITY OF APOPKA, FLORIDA, CHANGING THE ZONING FROM “COUNTY” C-3 (ZIP) TO “CITY” C-1 (RETAIL COMMERCIAL) FOR CERTAIN REAL PROPERTIES GENERALLY LOCATED WITHIN THE CITY LIMITS OF APOPKA, COMPRISING 3.32 ACRES, MORE OR LESS, AND OWNED BY NORMAN E. SAWYER; AND IGLESIA EL GETSEMANI, INC.; PROVIDING FOR DIRECTIONS TO THE COMMUNITY DEVELOPMENT DIRECTOR,**



**SEVERABILITY, CONFLICTS, AND AN EFFECTIVE DATE.**

Mayor Kilsheimer opened the meeting to a public hearing. No one wishing to speak, he closed the public hearing.

**MOTION by Commissioner Arrowsmith, and seconded by Commissioner Dean, to approve Ordinance No. 2479 at First Reading and carry if over for a Second Reading. Motion carried unanimously with Mayor Kilsheimer, and Commissioners Arrowsmith, Dean, Velazquez, and Ruth voting aye.**

5. Ordinance No. 2480 – First Reading – 2016-1 Administrative Rezoning. The City Clerk read the title as follows:

**ORDINANCE NO. 2480**

**AN ORDINANCE OF THE CITY OF APOPKA, FLORIDA, CHANGING THE ZONING FROM “COUNTY” C-1 (ZIP) TO “CITY” C-2 (GENERAL COMMERCIAL) FOR CERTAIN REAL PROPERTIES GENERALLY LOCATED WITHIN THE CITY LIMITS OF APOPKA, COMPRISING 3.2 ACRES, MORE OR LESS, AND OWNED BY 7-ELEVEN, INC.; ACTION GATOR TIRE; AND RACETRAC PETROLEUM, INC.; PROVIDING FOR DIRECTIONS TO THE COMMUNITY DEVELOPMENT DIRECTOR, SEVERABILITY, CONFLICTS, AND AN EFFECTIVE DATE.**

Mayor Kilsheimer opened the meeting to a public hearing. No one wishing to speak, he closed the public hearing.

**MOTION by Commissioner Ruth, and seconded by Commissioner Velazquez, to approve Ordinance No. 2480 at First Reading and carry if over for a Second Reading. Motion carried unanimously with Mayor Kilsheimer, and Commissioners Arrowsmith, Dean, Velazquez, and Ruth voting aye.**

6. Ordinance No. 2481 – First Reading – 2016-1 Administrative Rezoning. The City Clerk read the title as follows:

**ORDINANCE NO. 2481**

**AN ORDINANCE OF THE CITY OF APOPKA, FLORIDA, CHANGING THE ZONING FROM “COUNTY” I-2 (ZIP) AND I-4 (ZIP) TO “CITY” I-1 (GENERAL COMMERCIAL) FOR CERTAIN REAL PROPERTIES GENERALLY LOCATED WITHIN THE CITY LIMITS OF APOPKA, COMPRISING 10.54 ACRES, MORE OR LESS, AND OWNED BY DAVID L. POTOPAS; MARILYN BOUGHAN TRUST; PATRICIA & IRVIN LEADERS TRUST; AND LTR PROPERTIES, INC.; PROVIDING FOR DIRECTIONS TO THE COMMUNITY DEVELOPMENT DIRECTOR, SEVERABILITY, CONFLICTS, AND AN EFFECTIVE**

**DATE.**

Mayor Kilsheimer opened the meeting to a public hearing. No one wishing to speak, he closed the public hearing.

**MOTION by Commissioner Ruth, and seconded by Commissioner Velazquez, to approve Ordinance No. 2481 at First Reading and carry it over for a Second Reading. Motion carried unanimously with Mayor Kilsheimer, and Commissioners Arrowsmith, Dean, Velazquez, and Ruth voting aye.**

7. Ordinance No. 2482 – First Reading – 2016-1 Administrative Rezoning. The City Clerk read the title as follows:

**ORDINANCE NO. 2482**

**AN ORDINANCE OF THE CITY OF APOPKA, FLORIDA, CHANGING THE ZONING FROM “COUNTY” R-1 (ZIP) TO “CITY” R-1 (RESIDENTIAL) FOR CERTAIN REAL PROPERTIES GENERALLY LOCATED WITHIN THE CITY LIMITS OF APOPKA, COMPRISING 3.16 ACRES, MORE OR LESS, AND OWNED BY BRIAN AND CHRISTIAN ANDERSON; PROVIDING FOR DIRECTIONS TO THE COMMUNITY DEVELOPMENT DIRECTOR, SEVERABILITY, CONFLICTS, AND AN EFFECTIVE DATE.**

Mayor Kilsheimer opened the meeting to a public hearing. No one wishing to speak, he closed the public hearing.

**MOTION by Commissioner Arrowsmith, and seconded by Commissioner Dean, to approve Ordinance No. 2482 at First Reading and carry it over for a Second Reading. Motion carried unanimously with Mayor Kilsheimer, and Commissioners Arrowsmith, Dean, Velazquez, and Ruth voting aye.**

8. Ordinance No. 2492 – First Reading – Amending the Apopka Land Development Code and update the Utilities Design and Construction Standards Manual. The City Clerk read the title as follows:

**ORDINANCE NO. 2492**

**AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF APOPKA, FLORIDA, UPDATE OF THE UTILITIES DESIGN AND CONSTRUCTION STANDARDS MANUAL, PROVIDING FOR SEVERABILITY, CONFLICTS AND AN EFFECTIVE DATE.**

Mayor Kilsheimer opened the meeting to a public hearing. No one wishing to speak, he closed the public hearing.

**MOTION by Commissioner Ruth, and seconded by Commissioner Arrowsmith**

**approve Ordinance No. 2492 at First Reading and carry it over for a Second Reading. Motion carried unanimously with Mayor Kilsheimer, and Commissioners Arrowsmith, Dean, Velazquez, and Ruth voting aye.**

9. Resolution 2016-10 – Issuance and execution of a \$1,825,000 Capital Improvement Revenue Note. The City Clerk read the title as follows:

**RESOLUTION NO. 2016-10**

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF APOPKA, FLORIDA ACCEPTING A PROPOSAL OF WHITNEY BANK, d/b/a HANCOCK BANK TO PROVIDE THE CITY WITH A LOAN IN ORDER TO FINANCE THE ACQUISITION OF VARIOUS PUBLIC SAFETY VEHICLES AND OTHER CAPITAL IMPROVEMENTS; APPROVING THE FORM OF AND AUTHORIZING THE EXECUTION AND DELIVERY OF A LOAN AGREEMENT; AUTHORIZING THE ISSUANCE OF A PROMISSORY NOTE PURSUANT TO SUCH LOAN AGREEMENT IN THE AGGREGATE PRINCIPAL AMOUNT OF NOT TO EXCEED \$1,825,000 IN ORDER TO EVIDENCE SUCH LOAN; AUTHORIZING THE REPAYMENT OF SUCH NOTE FROM A COVENANT TO BUDGET AND APPROPRIATE LEGALLY AVAILABLE NON - AD VALOREM REVENUES; DELEGATING CERTAIN AUTHORITY TO THE MAYOR, CITY CLERK AND OTHER OFFICERS OF THE CITY FOR THE AUTHORIZATION, EXECUTION AND DELIVERY OF THE NOTE AND VARIOUS OTHER DOCUMENTS WITH RESPECT THERETO; DESIGNATING THE NOTE AS A QUALIFIED TAX-EXEMPT OBLIGATION WITHIN THE MEANING OF SECTION 265(B)(3) OF THE INTERNAL REVENUE CODE OF 1986, AS AMENDED; AND PROVIDING FOR AN EFFECTIVE DATE.**

Mark Galvin, First Southwest Company, said this resolution authorizes the issuance of \$1,825,000 worth of promissory notes to Hancock Whitney. On February 5, 2016, an RFP was issued to solicit banks and on March 7, 2016, there were eight responses received. The lowest was Hancock Bank at 1.39%. He advised Hancock Bank currently holds two other loans by the City. He advised the City has the ability to pre-pay at any time. He stated this is a great rate and as the Financial Advisor, they recommend moving forward and adopting this resolution.

Mayor Kilsheimer opened the meeting to a public hearing. No one wishing to speak, he closed the public hearing.

**MOTION by Commissioner Velazquez and seconded by Commissioner Ruth, to approve Resolution No. 2016-10. Motion carried unanimously with Mayor Kilsheimer, and Commissioners Arrowsmith, Dean, Velazquez, and Ruth voting aye.**

10. Resolution 2016-13 – Grow Apopka 20205 Vision Plan 2016-2025. The City Clerk read the title as follows:

## RESOLUTION NO. 2016-13

### **A RESOLUTION OF THE MAYOR AND CITY COUNCIL OF THE CITY OF APOPKA, FLORIDA, PROVIDING FOR THE APPROVAL AND ADOPTION OF THE STRATEGIC “GROW APOPKA 2016-2025 VISION PLAN”.**

Mr. Irby said three weeks ago, staff brought to Council the Vision Plan, which was a result of many months of work by both staff and elected officials. At that time the Council was asked to review this plan and if there were any changes to be made, to let staff know. All changes have been incorporated into the final document which is presented today along with a Resolution for the acceptance of the Vision Plan. He advised staff recommends approval and said Bob Cambric with Keith and Schnars, is present to answer any questions.

Mayor Kilsheimer opened the meeting to a public hearing.

David Emmel spoke regarding concerns of the Northwest Hub and form-based code. He said the form-based code is dated October, 2011, and stated this went through three months of agenda meetings. He said he was not against the total form-based code and said it is needed for Kelly Park Crossings and is needed for a DRI. He stated his problem is with the lot standards and how it is broken up into blocks with no transition or compatibility.

City Attorney Shepard advised the form-based code has to be adopted by ordinance. He stated this is not an ordinance and is simply accepting a planning document that provides a vision for Apopka. He further advised the document Mr. Emmel has from 2011 is a draft document by a planner for what a form-based code might look like for the city and it has never been adopted.

Suzanne Kidd said she had the privilege of serving as the Chair for the Visioning Steering Committee since its inception last July. She had the opportunity to listen to the citizens of Apopka in community forums and the business forum. She stated the document before Council is a true representation of what the citizens who attended those forums have expressed that they want to see. She asked Council to move ahead approving this document and utilize it in the upcoming budgeting season to begin to establish priorities for how to accomplish what is contained in this strategic plan.

Ray Shackelford said he applauded strategic planning and it was a step in the right direction. He expressed two concerns, one being the branding name for the vision process and how it resembles the Mayor's campaign. Again, he applauded the efforts of the Steering Committee, the consultant, and Council's efforts in heading toward a strategic plan. He questioned the additional funding of \$16,000 received by the consultant and when it was approved by Council.

Mr. Irby advised this funding fell under the Mayor's purview to approve.

Mayor Kilsheimer explained that based on feedback expressed by several Apopka residents, and his desire to ensure that this process reached as many residents as we could, it was decided to approve this funding for that purpose.

Dr. Shackelford suggested the threshold be reduced from \$25,000 to \$10,000.

**MOTION by Commissioner Dean to reduce the authority of the Mayor's approval authority from \$25,000 to \$10,000 failed due to lack of a second.**

Marcia King said she was a fifth generation resident and stated not all the citizens wanted to see this type of growth in Apopka.

Isadora Dean said we cannot go back and undo this, but she felt a group of citizens could have probably done what the visioning committee was paid to do. She stated they need to stop wasting the taxpayers' money by paying consultants.

Pastor Hezekiah Bradford commended the Visioning Committee and said he had the opportunity to serve on the committee. However, his issue was with the planning times of the meetings and the community's ability to attend.

Young Kim said the visioning process brought out many good ideas, but we must remember good fiscal responsibility and concentrate on the most valuable things we need in the city such as deteriorating infrastructure. He proposed that festivals not be paid with taxpayer's money and these events be put on by the private sector.

No one else wishing to speak, Mayor Kilsheimer closed the public hearing.

Mayor Kilsheimer said the idea of doing visioning was not unique to the City of Apopka. He stated visioning is an exercise many communities across the United States undertake as a way of trying to build public consensus into the future of their communities. He declared every effort was made to include every different perspective of the public, holding nine community meetings, a survey with more than 1,200 responses, a visioning website that generated almost 10,000 visits, making every effort to open input from Apopka residents. He said growth is inevitable and he thanked the Steering Committee and staff for their work in pursuing this project.

**MOTION by Commissioner Ruth, and seconded by Commissioner Velazquez, to approve Resolution No. 2016-13.**

Commissioner Arrowsmith pointed out that based upon the sign in sheet that the attendance was low for the two additional meetings. He stated this was a long process and there were plenty of meetings that were well advertised providing the opportunity for attendance.

Mayor Kilsheimer reiterated that every possible effort was made to solicit input from the community.

**Motion carried unanimously with Mayor Kilsheimer, and Commissioners Arrowsmith, Dean, Velazquez, and Ruth voting aye.**

Council recessed at 3:12 p.m. and reconvened at 3:18 p.m.

11. Resolution 2016-14 – Amending the budget for FY October 1, 2015 – September 30, 2016. The City Clerk read the title as follows:

**RESOLUTION NO. 2016-14**

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF APOPKA, FLORIDA, AMENDING THE BUDGET FOR THE FISCAL YEAR BEGINNING OCTOBER 1, 2015 AND ENDING SEPTEMBER 30, 2016, PROVIDING FOR A BUDGET AMENDMENT.**

Pam Barclay, Finance Director, said this is the second quarter budget amendment for Fiscal Year 2016. She stated the budget is being increased to account for carry forward appropriations, use of reserves, and additional grant funding. Staff requests approval of the resolution as presented.

Mayor Kilsheimer opened the meeting to a public hearing. No one wishing to speak, he closed the public hearing.

**MOTION by Commissioner Velazquez, and seconded by Commissioner Arrowsmith, to approve Resolution No. 2016-14. Motion carried unanimously with Mayor Kilsheimer, and Commissioners Arrowsmith, Dean, Velazquez, and Ruth voting aye.**

12. Resolution 2-16-15 – Wastewater Facilities Plan (WFP) update. The City Clerk read the title as follows:

**RESOLUTION NO 2016-15**

**A RESOLUTION OF CITY OF APOPKA, FLORIDA, RELATING TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STATE REVOLVING FUND LOAN PROGRAM; MAKING FINDINGS; ADOPTING THE WASTEWATER FACILITIES PLAN UPDATE; PROVIDING ASSURANCES; PROVIDING FOR CONFLICTS, SEVERABILITY, AND EFFECTIVE DATE.**

Kevin Burgess, Assistant Public Services Director, said the Wastewater Facilities Plant update is a requirement of the State Revolving Loan Program and this resolution completes the component of the loan program.

Mayor Kilsheimer opened the meeting to a public hearing. No one wishing to speak, he closed the public hearing.

**MOTION by Commissioner Ruth, and seconded by Commissioner Arrowsmith, to approve Resolution No. 2016-15. Motion carried unanimously with Mayor Kilsheimer, and Commissioners Arrowsmith, Dean, Velazquez, and Ruth voting aye.**

## **BUSINESS**

### **1. Council**

In response to Commissioner Dean inquiring about the City's participation in the Golden Eagle Luncheon held yesterday, Mayor Kilsheimer advised the Police Department was in attendance and made a contribution.

### **2. Public**

John Hightower said his problem was with the lack of programs at Alonzo Williams Park. He stated a lot of the programs were moved to the northwest facility. He spoke about meeting with the prior administration on a proposal for him to run programs at Alonzo Williams Park. He has since met with the current City Administrator. He stated this was a chance to work with the children in the community and provide them a place to play and obtain life skills. He asked that this be worked out and give him an opportunity to work on programs there.

Gene Knight expressed concern regarding a few issues on Christiana towards Votaw. He said there were sidewalks on one side and only partial sidewalks on the other side, with this being an area with high traffic. He asked for a three-way stop at Christiana and Monroe as well as having a street light placed in this area.

William Gusler spoke of an incident where he witnessed a drunk driver and called 911 to which the Apopka police did respond very quickly. He stated this gentleman was given a sobriety test and allowed to call his wife to go home. He declared this was problematic to him.

Chief McKinley said he responded to this in the Apopka Chief and The Apopka Voice, stating that everybody who violates the law will not necessarily go to jail. He stated he was not on the scene and matters such as this are the judgment and discretion of the officer. He advised it has been addressed with staff to evaluate and discussed as a learning experience.

Ray Shackelford said he would applaud Mr. Hightower for working with the young people of Apopka and we need to support our young people in a consistent manner. He inquired when the public would have access to the 2016 Old Florida Outdoor Festival finance report. He pointed out that he had been given permission to attend the Old Florida Outdoor Festival committee meeting and make comments. He stated he obtained a second confirmation and documentation regarding the cost of the splash pad in Winter Garden. He further discussed and expressed concern regarding Lake Apopka Natural Gas and stated he attended one of their meetings to obtain information. He advised, based on that meeting, the cities of Ocoee and Winter Garden have no desire to sell the District. He submitted a document to the Clerk wherein he is requesting information as a public records request.

Pastor Bradford said he appreciates how the city works with the Ministerial Alliance, and spoke about the cost of rental of the Apopka Community Center, requesting that Mr. Irby discuss with the Orange City Attorney regarding how they might be able to partner with them and have costs waived.

Mr. Irby advised the City Attorney had opined in previous meetings that the City ca

waive fees. He stated they had met with the Ministerial Alliance and provided them with the lowest possible rate.

Tenita Reid said that Christine Moore, School Board Member, had an Art and Jazz Festival scheduled at the amphitheater and inquired about the rent for that event.

Mayor Kilsheimer advised the event had to be moved due to weather. They had rented the facility for \$1,600 and received a refund, per policy, of \$1,400.

**MAYOR'S REPORT** – No report.

**NOT REQUIRING ACTION**

1. Thank you letter to the City of Apopka Recreation Department from resident.

**ADJOURNMENT** – There being no further business the meeting adjourned at 3:58 p.m.

ATTEST:

\_\_\_\_\_  
Joseph E. Kilsheimer, Mayor

\_\_\_\_\_  
Linda F. Goff, City Clerk



**Backup material for agenda item:**

1. Approve the Disbursement Report for the month of March, 2016.

**CITY OF AOPKA**  
**Check Register**

Check Dates 3/01/16 thru 3/31/16, All Cash Accounts, Including Voided and Reconciled Checks

Number	Date	Amount	Vendor	Payee	Voiced
171459	3/04/16	625.00	A833	A-1 SERVICE PLUMBING INC.	
	Reference	Description			Amount
	146842	Emergency Plumbing Repairs Highland Manor			625.00
171460	3/04/16	822.91	A35	A.O.K. TIRE MART	
	Reference	Description			Amount
	146729	REPAIR TRANSMISSION UNIT# 191166			822.91
171461	3/04/16	201.50	A1051	AGUILAR, JACKELINE	
	Reference	Description			Amount
	147024	No need of services for Spring Break camp			201.50
171462	3/04/16	1,641.60	A205	ALLIED UNIVERSAL CORPORATION	
	Reference	Description			Amount
	145914	Bleach Deliveries - Blanket PO			1,641.60
171463	3/04/16	878.11	A422	AMERICAN MESSAGING	
	Reference	Description			Amount
	144478	American Messaging (Open PO)			878.11
171464	3/04/16	2,166.25	A326	AMSOIL INC./ACCOUNTS RECEIVABLE	
	Reference	Description			Amount
	144901	STOCK AMSOIL			511.44
	146152	BLANKET PO FOR STOCK AMSOIL SYNTHETIC OILS			1,152.25
	146735	Inventory item 2 cycle oil			502.56
171465	3/04/16	74.41	A110	APOPKA ACE HARDWARE & LUMBER INC.	
	Reference	Description			Amount
	146435	MISC VEHICLE PARTS FOR WORK ORDERS			74.41
171466	3/04/16	525.00	A51	APOPKA AUTO UPHOLSTERY	
	Reference	Description			Amount
	145701	MISC SEAT REPAIRS ON CITY VEHICLES			525.00
171467	3/04/16	93.75	A15	APOPKA CHIEF, THE	
	Reference	Description			Amount
	144387	Advertising - Blanket PO			24.00
	146886	BANKING RFP ADVERTISEMENT			33.75
	146887	CAPITAL NOTE RFP ADVERTISEMENT			36.00
171468	3/04/16	1,777.00	A309	APOPKA PLAQUE AND TROPHY	
	Reference	Description			Amount
	146427	Coaches Shirts for Soccer Spring 2016			1,777.00
171469	3/04/16	150.00	A999	ARB PRODUCTIONS INC	
	Reference	Description			Amount
	146807	ARB Productions-FT Entertainment Jan 2016			150.00
171470	3/04/16	4,316.63	A572	AWC INC.	
	Reference	Description			Amount
	146485	Control Unit Board for Reuse Pump #5 PN/ SC 6SE709			4,316.63
171471	3/04/16	523.58	B567	BELL RENTALS & SALES, INC.	
	Reference	Description			Amount
	146738	REAR PTO SHAFT FOR TRI DECK MOWER			523.58

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Number	Date	Amount	Vendor	Payee	Voiced
171472	3/04/16	60.00	B863	BLAIR, MICHAEL	
	Reference	Description			Amount
	147008	Parent is coaching child			60.00
171473	3/04/16	127.68	B963	BURBRINK, ROBERT	
	Reference	Description			Amount
	146996	Water Conservation Program Rebate			127.68
171474	3/04/16	50.00	B964	BUTSCHEK, MATT	
	Reference	Description			Amount
	147017	Flag Football (Coaching Refund)			50.00
171475	3/04/16	1,137.98	B517	BWI-AOPKA	
	Reference	Description			Amount
	146364	50 lbs of Ant Control			506.04
	146613	10-50 lb Bags of Ant Control			492.08
	146783	TURF FERTILIZER FOR BAHIA & ST. AUGUSTINE SOD			139.86
171476	3/04/16	720.00	B957	BYO RECREATION, INC.	
	Reference	Description			Amount
	146454	BYO Recreation-Park Bench for Mayor Land Statue			720.00
171477	3/04/16	200.00	C1170	CAMPOS, RAFAEL	
	Reference	Description			Amount
	147003	Facility Use Deposit Refund			200.00
171478	3/04/16	1,270.00	C476	CAPITAL CONTRACTORS INC.	
	Reference	Description			Amount
	146139	Blanket PO-PS Janitorial Services FY1516			1,270.00
171479	3/04/16	518.05	C445	CAPITAL OFFICE PRODUCTS	
	Reference	Description			Amount
	146793	Office Supplies Northwest			518.05
171480	3/04/16	35.00	C247	CENTRAL FLORIDA PRIMA	
	Reference	Description			Amount
	146960	Annual membership - Central Florida PRIMA			35.00
171481	3/04/16	60.00	C1171	CHAMBERS, STEPHANIE	
	Reference	Description			Amount
	147021	Flag Football (Coaching Refund)			60.00
171482	3/04/16	480.00	C1066	CLASSIC SPORTS TURF, LLC	
	Reference	Description			Amount
	146241	Laser Level w/ pitch for Batting Cages			480.00
171483	3/04/16	241.92	C559	COCA-COLA ENTERPRISES	
	Reference	Description			Amount
	146841	Coca Cola Vending PS			241.92
171484	3/04/16	495.00	C287	COMPLETE REEL GRINDING INC.	
	Reference	Description			Amount
	145908	Service Toro 550 Reels Shapen & Repairs			495.00
171485	3/04/16	316.82	C1024	CONCORD TECHNOLOGIES	
	Reference	Description			Amount

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**Check Register**

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Number	Date	Amount	Vendor	Payee	Voiced
	143960			Concord Fax - Hosted Faxing	316.82
171486	3/04/16	2,068.64	C557	CONSOLIDATED ELECTRICAL DIST.	
	Reference	Description			Amount
	146338			NWRC Electrical Installation Material for BBQ Area	2,068.64
171487	3/04/16	125.00	C341	CROWN SHREDDING, LLC	
	Reference	Description			Amount
	144388			Shredding Services Contract	125.00
171488	3/04/16	262.00	C1169	CURTIS, KATHLYN	
	Reference	Description			Amount
	146984			Refund traffic citation - mailed fine to City of A	262.00
171489	3/04/16	445.20	D301	DADE PAPER & BAG CO.	
	Reference	Description			Amount
	146915			OFOF drinking water for employees and volunteers	445.20
171490	3/04/16	409.00	D119	DANA SAFETY SUPPLY, INC.	
	Reference	Description			Amount
	146530			EXTERIOR STROBES & INTERIOR LIGHT UNIT# 391774	409.00
171491	3/04/16	50.00	D860	DAVIS, MARCUS	
	Reference	Description			Amount
	147023			Flag Football (Coaching Refund)	50.00
171492	3/04/16	70.00	D855	DECLUE, JONATHAN	
	Reference	Description			Amount
	147001			Flag Football (Coaching Refund)	70.00
171493	3/04/16	1,936.14	D664	DELL MARKETING L.P.	
	Reference	Description			Amount
	146083			Standby SCADA Server Replacement	1,936.14
171494	3/04/16	150.00	D514	DIAMOND FENCE COMPANY, INC.	
	Reference	Description			Amount
	146910			SERVICE CALL TO DIAG GATES OPEN AT FUEL ISLAND	150.00
171495	3/04/16	1,240.63	D670	DON REID FORD	
	Reference	Description			Amount
	146002			BLANKET PO FORD PARTS MISC CITY VEHICLES	1,240.63
171496	3/04/16	249.00	D630	DON WOOD, INC.	
	Reference	Description			Amount
	146438			MISC PARTS & REPAIRS FOR MAIN FUEL ISLAND	249.00
171497	3/04/16	2,866.16	D835	DUKE ENERGY	
	Reference	Description			Amount
	146942			Replace a pole on Kelly Park RD.	2,866.16
171498	3/04/16	0.00	D819	DUKE ENERGY	V 3/04/16
171499	3/04/16	0.00	D819	DUKE ENERGY	V 3/04/16
171500	3/04/16	6,717.45	D819	DUKE ENERGY	
	Reference	Description			Amount
	146990			Mar 2016 Electrical Charges	3,944.80
	146986			Feb 2016 Electrical Charges	1,400.81

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Number	Date	Amount	Vendor	Payee	Voiced
	146987	Feb 2016 Electrical Charges			105.60
	146988	Feb 2016 Electrical Charges			339.71
	146989	Mar 2016 Electrical Charges			926.53
171501	3/04/16	120.51	E705	ECMC	
	Reference	Description			Amount
	146993	Melissa Cabrera Weekly Payment 02/27/16			120.51
171502	3/04/16	250.00	E593	ELECTRONICS DEPOT	
	Reference	Description			Amount
	145707	MISC ALARM INSTALLS & WINDOW TINTING			250.00
171503	3/04/16	500.00	E706	ELEGANCE CLEANING SERVICES INC.	
	Reference	Description			Amount
	146839	Blanket PO Cleaning Services Gilliam Training			500.00
171504	3/04/16	19,755.00	E710	ESO SOLUTIONS, INC.	
	Reference	Description			Amount
	145985	ESO reporting system for EMS and Fire			19,755.00
171505	3/04/16	875.00	F507	FERRAN SERVICES & CONTRACTING, INC.	
	Reference	Description			Amount
	146838	Emergency Repairs-PD and CH			875.00
171506	3/04/16	60.00	F971	FERRER, RICHARD JOSEPH	
	Reference	Description			Amount
	147020	Flag Football (Coaching Refund)			60.00
171507	3/04/16	62.30	F310	FIELDS EQUIPMENT COMPANY, INC.	
	Reference	Description			Amount
	145272	MISC MOWER PARTS			62.30
171508	3/04/16	84.44	F2	FIRE DEPARTMENT PETTY CASH FUND	
	Reference	Description			Amount
	146958	Fire Dept Petty Cash Reimbursement			84.44
171509	3/04/16	5,285.00	F181	FLORIDA ARMATURE WORKS, INC.	
	Reference	Description			Amount
	146115	NW HSP #4 Motor Tear Down & Repair			5,285.00
171510	3/04/16	20,749.14	F424	FLORIDA COMBINED LIFE	
	Reference	Description			Amount
	147035	BCBS Blue Dental Mar 2016			20,749.14
171511	3/04/16	650.00	F678	FLORIDA DEPARTMENT OF	
	Reference	Description			Amount
	146884	State of Florida DEP Permit Application Fee - E. 7			650.00
171512	3/04/16	583.54	F767	FLORIDA STORMWATER ASSOCIATION INC	
	Reference	Description			Amount
	146918	Stormwater Assn. Membership Renewal			583.54
171513	3/04/16	50.00	G780	GATLIN, DERRICK	
	Reference	Description			Amount
	147007	Flag Football (Coaching Refund)			50.00
171514	3/04/16	1,693.70	G621	GOOD SPORTS	

**CITY OF AOPKA**  
**Check Register**

Check Dates 3/01/16 thru 3/31/16, All Cash Accounts, Including Voided and Reconciled Checks

Number	Date	Amount	Vendor	Payee	Voiced
	Reference	Description			Amount
	145238	Release bases & Burry Home plate			1,693.70
171515	3/04/16	355.54	G641	GOVCONNECTION, INC.	
	Reference	Description			Amount
	145803	Monitor and Laser Printer			355.54
171516	3/04/16	1,676.93	G661	GRAINGER	
	Reference	Description			Amount
	146730	Inventory items that are at reordering point			1,070.75
	146765	Lamp holders for 411 sign lights city wide			250.00
	146778	A/C Belts-FCC,NW,WWTP			74.84
	146821	Pad locks keyed alike 0851 ForN/W BBQ			281.34
171517	3/04/16	533.68	G243	GUARDIAN FUELING TECHNOLOGIES, INC.	
	Reference	Description			Amount
	145697	PROKEE ENCODER # 941D0120 FOR FUEL ISLAND KEYS			533.68
171518	3/04/16	13,638.42	H227	H D SUPPLY WATER WORKS, LTD.	
	Reference	Description			Amount
	145691	Inventory items that are at reordering point			6,090.68
	146031	4" Accu mag sewer meter			4,585.00
	146063	Battery pack and vault for meter			834.03
	146565	RDG Batteries ,sewer snake cable & sewer buddy			1,287.83
	146737	Inventory items that are at reordering point			840.88
171519	3/04/16	438.58	H50	HOME DEPOT CREDIT SERVICES	
	Reference	Description			Amount
	145762	Home Depot- Extension Cords for Butler Building			123.37
	146046	HomeDepot - Paint and Supplies for Fire St.2			297.22
	146792	Materials needed for the Carroll Bldg project.			17.99
171520	3/04/16	11.54	I357	INTERNAL REVENUE SERVICE	
	Reference	Description			Amount
	146992	Ryan McNeely Weekly Payment 02/27/16			11.54
171521	3/04/16	59.94	I669	IRBY, GLENN A	
	Reference	Description			Amount
	147050	FCCMA Aburndale Training - 405 Bennett St. Aburnda			59.94
171522	3/04/16	3,204.00	J789	JANI- KING OF ORLANDO	
	Reference	Description			Amount
	145273	Blanket PO Cleaning Services FY1516 Dec-Sept			3,204.00
171523	3/04/16	270.00	J588	JOHNSON BUILT, INC.	
	Reference	Description			Amount
	146754	Network Ethernet Infrastructure Installation			270.00
171524	3/04/16	75.00	K616	K & K GLASS INC	
	Reference	Description			Amount
	145960	MISC WINDSHIELD REPAIRS FOR CITY VEHICLES			75.00
171525	3/04/16	110.00	K635	KUERTH, CHRISTINE	
	Reference	Description			Amount

**CITY OF AOPKA**  
**Check Register**

Check Dates 3/01/16 thru 3/31/16, All Cash Accounts, Including Voided and Reconciled Checks

Number	Date	Amount	Vendor	Payee	Voiced
	147015			Never contacted by team, Needed a specific practic	110.00
171526	3/04/16	1,293.15	L763	LAKE TIRE & AUTO	
	Reference	Description			Amount
	146418			BLANKET PO INVENTORY TIRES FOR VEHICLES	1,293.15
171527	3/04/16	2,163.33	L626	LOWE'S	
	Reference	Description			Amount
	146226			(1) PALLET OF (40) 94LB. BAGS OF PORTLAND CEMENT	302.00
	146227			(1) PALLET OF COLD PATCH (63) BAGS FOR TEMP REPA	836.64
	146455			Blanket P.O. for Forest Avenue shop supplies	175.65
	146591			(1) PALLET OF COLD PATCH FOR ROAD REPAIRS	849.04
171528	3/04/16	454.00	L114	LaMOTTE COMPANY	
	Reference	Description			Amount
	146614			DPD ChlorineTablets	454.00
171529	3/04/16	60.00	M997	MARKS, CICELY	
	Reference	Description			Amount
	147019			Flag Football (Coaching Refund)	60.00
171530	3/04/16	151.25	M908	MAYNARD, JEROLD	
	Reference	Description			Amount
	146871			Maynard- Class reimbursement	151.25
171531	3/04/16	50.00	M1076	MCDONALD, PAMELA	
	Reference	Description			Amount
	147018			Flag Football (Coaching Refund)	50.00
171532	3/04/16	1,110.90	M568	MERCER PEST CONTROL, INC.	
	Reference	Description			Amount
	146076			Blanket PO Pest - Rodent Services FY1516 Dec-Sept	1,110.90
171533	3/04/16	160.00	M1014	MID FLORIDA MATERIALS	
	Reference	Description			Amount
	146727			2 Loads of Sand/ Clay	160.00
171534	3/04/16	1,229.00	M710	MID STATE FENCE COMPANY,INC.	
	Reference	Description			Amount
	146513			Barrier Gate on Grand Slam Blvd at Appy Lane	1,229.00
171535	3/04/16	803.00	M313	MILLIKAN BATTERY & ELECTRIC	
	Reference	Description			Amount
	145374			STOCK BATTERIES & ALTERNATORS	803.00
171536	3/04/16	60.00	M1075	MITCHELL-SYKES, CHANTELL	
	Reference	Description			Amount
	147014			Parent is coaching soccer	60.00
171537	3/04/16	180.00	M1074	MORGAN, CHRISTINE	
	Reference	Description			Amount
	147005			Facility Use Deposit Refund	180.00
171538	3/04/16	50.00	M1078	MORGAN, LANCE	
	Reference	Description			Amount
	147037			Flag Football (Coaching Refund)	50.00

**CITY OF AOPKA**  
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Number	Date	Amount	Vendor	Payee	Voiced
171539	3/04/16	257.40	M635	MORGANELLI & ASSOCIATES	
	Reference	Description			Amount
	146512	SIREN / LIGHT CONTROLLER FOR PD 4-WHEELER #12-06			257.40
171540	3/04/16	1,075.00	M533	MR. B's PRO SERVICES LLC	
	Reference	Description			Amount
	146529	CLEAN FUEL , CNG & OIL TANKS @ FUEL ISLAND & PS			1,075.00
171541	3/04/16	50.00	M953	McGATLIN, DAN	
	Reference	Description			Amount
	147002	Flag Football (Coaching Refund)			50.00
171542	3/04/16	50.00	N698	NASCIMENTO, LAURA	
	Reference	Description			Amount
	146997	Flag Football (Coaching Refund)			50.00
171543	3/04/16	358.00	N663	NATIONAL NOTARY ASSOCIATION	
	Reference	Description			Amount
	146849	Notary Renewal -Joyce and Lynne			358.00
171544	3/04/16	475.90	N512	NEFF RENTAL	
	Reference	Description			Amount
	146716	Rental - Roller for NWRC parking			475.90
171545	3/04/16	250.00	N979	NEW JOURNEY YOUTH CENTER INC	
	Reference	Description			Amount
	146938	Donation - Cmsr. Velazquez' Discretionary Fund			250.00
171546	3/04/16	438.94	O670	O'REILLY AUTO PARTS	
	Reference	Description			Amount
	146419	BLANKET PO MISC VEHICLE PARTS FOR WORK ORDEF			438.94
171547	3/04/16	110.00	O681	OBREGON, CESAR	
	Reference	Description			Amount
	147010	Custody issues, other parent not coordinating.			110.00
171548	3/04/16	507.73	O49	ORLANDO FREIGHTLINER, INC.	
	Reference	Description			Amount
	146579	BLANKET PO FOR FREIGHTLINER PARTS ON WORK ORI			507.73
171549	3/04/16	187.79	O10	ORLANDO PAVING CO	
	Reference	Description			Amount
	146956	(4) TON OF ASPHALT TO MAKE NECESSARY RESTORATI			187.79
171550	3/04/16	60.00	O682	ORYS, JOHN	
	Reference	Description			Amount
	147026	Parent is coaching child			60.00
171551	3/04/16	31.95	P935	PARKER, LATISHA	
	Reference	Description			Amount
	147016	Pavillion had a broken grill and she was not aware			31.95
171552	3/04/16	11,312.97	P710	PETROLEUM TRADERS CORP.	
	Reference	Description			Amount
	146478	CITY WIDE DIESEL 7482 @ 1.53 (Plus credit & rebill			11,312.97
171553	3/04/16	870.00	P632	PHOTOSOUND OF ORLANDO,INC.	



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Number	Date	Amount	Vendor	Payee	Voiced
	Reference	Description			Amount
	146782	Audio Equipment for City Public Functions			870.00
171554	3/04/16	224.21	P903	POLICE DEPT PETTY CASH FUND	
	Reference	Description			Amount
	147031	Police Dept Petty Cash Reimbursement			224.21
171555	3/04/16	60.00	P936	POLUSMAK, VLAD	
	Reference	Description			Amount
	147025	Parent is coaching child			60.00
171556	3/04/16	22.50	P40	PRIDE ENTERPRISES	
	Reference	Description			Amount
	146824	Business cards-Curtis Johnson			22.50
171557	3/04/16	483.00	P612	PRO-CHEM,INC.	
	Reference	Description			Amount
	146787	Inventory items that are at reordering point			483.00
171558	3/04/16	328,126.02	P929	PUBLIC RISK MANAGEMENT OF FLORIDA	
	Reference	Description			Amount
	146979	Health Insurance Mar 2016			328,126.02
171559	3/04/16	87.45	P668	PUBLIC SERVICES PETTY CASH	
	Reference	Description			Amount
	147049	Public Services Petty Cash Reimbursement			87.45
171560	3/04/16	180.66	P197	PUBLIX SUPER MARKETS, INC.	
	Reference	Description			Amount
	146371	Birthday parties			43.16
	146877	Cakes and supplies for kids birthday parties held			137.50
171561	3/04/16	1,000.00	R804	RANDALL A. SOMERS	
	Reference	Description			Amount
	146994	Contract Services - Airport			1,000.00
171562	3/04/16	100.00	R904	RENZI, BRION	
	Reference	Description			Amount
	147013	Parent is coaching soccer			100.00
171563	3/04/16	1,195.26	R232	RICOH USA, INC.	
	Reference	Description			Amount
	144951	PS Printer Service Agreement 2015-2016			324.01
	146874	Copier usage charges for 4020/4021 - 11/15 - 2/16			871.25
171564	3/04/16	100.00	R903	ROTONDO, JACQUELINE	
	Reference	Description			Amount
	147011	Parent is coaching soccer			100.00
171565	3/04/16	46,961.00	S1102	SAM WALTON DEVELOPMENT COMPLEX	
	Reference	Description			Amount
	147027	Reimbursement for construction of curb ramps and p			46,961.00
171566	3/04/16	8.02	S1103	SANCHEZ, ALFREDO	
	Reference	Description			Amount
	147041	Apopka Community Center - 02.13.16 Rental. Deposit			8.02

**CITY OF APOPKA**  
**Check Register**

Check Dates 3/01/16 thru 3/31/16, All Cash Accounts, Including Voided and Reconciled Checks

Number	Date	Amount	Vendor	Payee	Voiced
171567	3/04/16	594.97	S322	SASE COMPANY	
	Reference	Description			Amount
	146439	BELT, BELT GUARD, SHAFT ETC UNIT# 311372			594.97
171568	3/04/16	42,500.00	S1075	SEMINOLE COUNTY SHERIFF'S OFFICE	
	Reference	Description			Amount
	140908	Cafe Installation and training expenses			42,500.00
171569	3/04/16	528.15	S1079	SEMINOLE OFFICE SOLUTIONS, INC	
	Reference	Description			Amount
	144947	BLANKET PO - MONTHLY COPY CHARGE			25.16
	145263	FINANCE COPIER LEASE			280.93
	146875	3161 Parts and Service for Ricoh MP 7001			222.06
171570	3/04/16	2,500.00	S1077	SHEPHERD & WOLFE, LLC	
	Reference	Description			Amount
	144120	Shepherd & Wolfe - Event Consulting - Blanket PO			2,500.00
171571	3/04/16	948.48	S257	SHI INTERNATIONAL CORP.	
	Reference	Description			Amount
	146759	New Workstation Licensing			948.48
171572	3/04/16	456.00	S797	SMITH EQUIPMENT & SUPPLY COMPANY	
	Reference	Description			Amount
	146496	SIDE BROOMS FOR PELICAN STREET SWEEPERS			456.00
171573	3/04/16	0.00	S575	SUNTRUST BANK	V 3/04/16
171574	3/04/16	0.00	S575	SUNTRUST BANK	V 3/04/16
171575	3/04/16	12,944.37	S575	SUNTRUST BANK	
	Reference	Description			Amount
	146479	Orlando EDC James B. Greene Annual Award Dinner			276.27
	146503	Ribbons and gift cards for 5K prizes			189.00
	146532	FCCMA: Fire Assessment Fees Training-IRBY			49.00
	146535	FCCMA: Fire Assessment Fees Training-BARCLAY			49.00
	146538	Jet's Pizza: Staff Charity Award			81.73
	146542	Godaddy Domain Registration-Apopka Youth Works			119.94
	147047	EPASS Charge to Visa			100.00
	143966	BrickFTP Subscription			49.00
	143977	3161 Cashier supplies and toner for MP7001			328.35
	145024	DoubleTree Hotel - FLM Fly-In 1/13/2016 Tallahassee			199.00
	145607	Mosquito Creek - Gift Cards for Employee Holiday P			100.00
	145797	4imprint - OFOF Sunglasses / gate prizes			1,169.96
	145848	PD Awards Ceremony Catering			2,282.26
	145867	Admission & Lunch Old Sugar Mill Senior Trip			185.76
	145924	SWAT Command and Leadership School			730.00
	145925	Hotel			690.00
	145998	Certified Profile - Valencia College background			198.70
	146037	OFOF - Signboard Buildout Materials			168.98
	146038	OFOF - Signboard Buildout Materials			362.38
	146071	Apopka.net Domain Renewal			105.96

**CITY OF AOPKA**  
**Check Register**

Check Dates 3/01/16 thru 3/31/16, All Cash Accounts, Including Voided and Reconciled Checks

Number	Date	Amount	Vendor	Payee	Voiced
	146113			Walmart-Igloo 120-qt. cooler	57.33
	146149			Wood shavings for OFOF racing pigs	181.25
	146156			FRPA Conference 1- Nigfht Stay Holiday Inn	94.00
	146215			Crosby's Motor Inn-Hotel Rooms for Dock Dogs	552.00
	146244			FTD-Funeral Arrangement for Dorothy Shepard, Mothe	83.97
	146245			Custom Plastic Regular Wristbands - OFOF	1,160.00
	146246			www.eventwristbands.com-VIP Wristbands OFOF	150.00
	146248			Lean Ticket-Printed Tickets for Sales	2,182.44
	146282			HomeToSuites-Velzaquest FLC Legislative Action Day	206.44
	146296			Boston Butts for peoples choice OFOF BBQ	588.50
	146372			Office Supplies - Mayor & Commissioners	171.35
	146377			Office Depot-Office Supplies	81.80
171576	3/04/16	50.00	S1022	SUTTON, CHRIS	
	Reference	Description			Amount
	147036			Flag Football (Coaching Refund)	50.00
171577	3/04/16	403.00	S542	SWANK MOTION PICTURES, INC.	
	Reference	Description			Amount
	146499			Blue Ray Movie w/ License fro March 4th (MINIONS)	403.00
171578	3/04/16	3.05	T842	TAKE IT EASY HOME CLEANING	
	Reference	Description			Amount
	147029			Reimburse overpayment of Business Tax Receipt #975	3.05
171579	3/04/16	1,850.68	T767	TAMPA CRANE & BODY, INC.	
	Reference	Description			Amount
	145163			MISC HEIL PARTS FOR SANITATION TRUCKS	1,850.68
171580	3/04/16	1,702.50	T270	TAYLORS PHARMACY	
	Reference	Description			Amount
	144758			Blanket PO - EMS medications	1,702.50
171581	3/04/16	2,340.00	T108	TECHNOLOGY ASSURANCE LABS	
	Reference	Description			Amount
	146555			Professional Services Network Latency Troubleshoot	1,560.00
	146944			Network Support	780.00
171582	3/04/16	23.49	T841	TOWN STAR HOLDINGS, LLC	
	Reference	Description			Amount
	147028			Reimbursement for overpayment to transfer business	23.49
171583	3/04/16	1,752.95	T348	TPH ACQUISITION LLLP	
	Reference	Description			Amount
	146044			MONTHLY BLANKET PO STOCK & MISC VEHICLE PARTS	1,752.95
171584	3/04/16	780.00	T835	TRENCH PLATE RENTAL COMPANY	
	Reference	Description			Amount
	146791			Rental of a Trench box Kelly Park RWM	780.00
171585	3/04/16	7,395.00	T784	TRUGREEN	
	Reference	Description			Amount
	144543			Contract for Yearly Chemical Service for NWRC	7,395.00
171586	3/04/16	50.00	T824	TRULY, CARY	

**CITY OF AOPKA**  
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Check Dates 3/01/16 thru 3/31/16, All Cash Accounts, Including Voided and Reconciled Checks

Number	Date	Amount	Vendor	Payee	Voiced
	Reference	Description			Amount
	147000	Flag Football (Coaching Refund)			50.00
171587	3/04/16	9,854.67	T446	TRUSTMARK VOLUNTARY BENEFIT SOLUTI	
	Reference	Description			Amount
	146933	Trustmark Insurance Feb 2016			9,854.67
171588	3/04/16	2,607.76	T562	TW TELECOM	
	Reference	Description			Amount
	145178	Monthly Internet/Phone Service-BPO			2,607.76
171589	3/04/16	568.92	T31	TWC DISTRIBUTORS	
	Reference	Description			Amount
	146481	Mini Click Rain Sensors			403.92
	146482	Rain Sensor Replacement Tops			165.00
171590	3/04/16	19.21	U15	UNITED PARCEL SERVICE	
	Reference	Description			Amount
	143963	UPS Shipping (Open PO)			19.21
171591	3/04/16	26.00	U7	UNITED WAY-HEART OF FLORIDA	
	Reference	Description			Amount
	146991	Feb'16 United Way Contribution			26.00
171592	3/04/16	501.40	U128	UNIVERSAL ENGINEERING SCIENCES, INC.	
	Reference	Description			Amount
	145049	Additional Geo-technical Testing - NW Park Ph 4A			501.40
171593	3/04/16	70.00	V587	VASQUEZ, VANESSA	
	Reference	Description			Amount
	147009	Parent is coaching child			70.00
171594	3/04/16	1,172.48	V116	VETERANS OF FOREIGN WARS OF THE U.S	
	Reference	Description			Amount
	147038	Apopka Community Center - 60% Bldg Rental & Cater			283.88
	147040	Apopka Community Center - 60% Bldg Rental & Cateri			888.60
171595	3/04/16	7,620.36	W535	WASTE MANAGEMENT OF VISTA LANDFILL	
	Reference	Description			Amount
	145595	Tipping fees for FY. 2015-2016, Blanket PO.			7,620.36
171596	3/04/16	546.17	W156	WHEELED COACH INDUSTRIES, INC.	
	Reference	Description			Amount
	146347	REPLACEMENT LED LIGHTS ON AMBULANCE 1 & 2			546.17
171597	3/04/16	80.00	W770	WHIPPLE, BONNIE	
	Reference	Description			Amount
	147022	Flag Football (Coaching Refund)			80.00
171598	3/04/16	50.00	W769	WINDSLOW, MIKE	
	Reference	Description			Amount
	146998	Flag Football (Coaching Refund)			50.00
171599	3/04/16	1,177.95	Y43	YOURIDGUARD, INC.	
	Reference	Description			Amount
	146980	Lifelock February 2016			1,177.95

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**Check Register**

Check Dates 3/01/16 thru 3/31/16, All Cash Accounts, Including Voided and Reconciled Checks

Number	Date	Amount	Vendor	Payee	Voiced
171600	3/04/16	370.32	Z55	ZONES, INC	
	Reference	Description			Amount
	146261	Apple USB to Lightning charge cord replacement			18.00
	146753	New PS Admin Workstation Equipment			352.32
171601	3/10/16	2,217.98	A566	ACTION GATOR TIRE	
	Reference	Description			Amount
	146415	BLANKET PO FOR INVENTORY TIRES FOR VEHICLES			2,217.98
171602	3/10/16	1,628.80	A205	ALLIED UNIVERSAL CORPORATION	
	Reference	Description			Amount
	145922	Wastewater treatment plant Sodium Hypochlorite usa			1,628.80
171603	3/10/16	808.29	A28	AMERICAN WIRE & TERMINAL	
	Reference	Description			Amount
	146955	Inventory item 18" Cable ties			486.20
	147084	MISC ELECTRICAL SUPPLIES TO REPAIR EMERGENCY V			322.09
171604	3/10/16	30.00	A309	APOPKA PLAQUE AND TROPHY	
	Reference	Description			Amount
	145789	PD Awards			30.00
171605	3/10/16	252.50	C880	CDM SMITH, INC.	
	Reference	Description			Amount
	147146	Professional Services - Solid Waste Permitting Ser			252.50
171606	3/10/16	239.50	C459	CENTURYLINK	
	Reference	Description			Amount
	145190	CenturyLink Phone Bills			239.50
171607	3/10/16	35.00	C961	CENTURYLINK	
	Reference	Description			Amount
	147174	Jan'16 Airport Payphone Charges			35.00
171608	3/10/16	9,020.00	C588	CROM CORPORATION, THE	
	Reference	Description			Amount
	144599	Liquid Level Indicator Repairs: - Grossenbacher			9,020.00
171609	3/10/16	1,352.97	D664	DELL MARKETING L.P.	
	Reference	Description			Amount
	146606	Dell Laptop Repair Police Department			269.00
	146760	Dell E7250 Latitude Laptop			1,083.97
171610	3/10/16	2,307.65	S968	DEPT OF MGMT SERVICES - STATE OF FLOI	
	Reference	Description			Amount
	145233	MetrE State Internet Service			2,307.65
171611	3/10/16	14,374.25	D601	DEPT. OF CORRECTIONS	
	Reference	Description			Amount
	145901	INMATE SERVICES - BLANKET PURCHASE ORDER			14,374.25
171612	3/10/16	4,124.44	D174	DIGITAL DATA TECHNOLOGIES, INC.	
	Reference	Description			Amount
	146069	AccuGlobe Licensing/Support for remainder FY 15/16			4,124.44
171613	3/10/16	439.00	D857	DIGITAL DOLPHIN SUPPLIES	

**CITY OF AOPKA**  
**Check Register**

Check Dates 3/01/16 thru 3/31/16, All Cash Accounts, Including Voided and Reconciled Checks

Number	Date	Amount	Vendor	Payee	Voiced
	Reference	Description			Amount
	146889	Cartridges / Toner			439.00
171614	3/10/16	0.00	D819	DUKE ENERGY	V 3/10/16
171615	3/10/16	0.00	D819	DUKE ENERGY	V 3/10/16
171616	3/10/16	37,450.92	D819	DUKE ENERGY	
	Reference	Description			Amount
	147159	Mar 2016 Electrical Charges			22,277.03
	147162	Mar 2016 Electrical Charges			3,674.47
	147154	Feb 2016 Electrical Charges			5,209.49
	147155	Mar 2016 Electrical Charges			6,289.93
	147159	Mar 2016 Electrical Charges			0.00
171617	3/10/16	120.51	E705	ECMC	
	Reference	Description			Amount
	147150	Melissa Cabrera Weekly Payment 03/05/16			120.51
171618	3/10/16	500.00	E706	ELEGANCE CLEANING SERVICES INC.	
	Reference	Description			Amount
	146839	Blanket PO Cleaning Services Gilliam Training			500.00
171619	3/10/16	2,492.81	E538	ENVIRONMENTAL PRODUCTS OF FLORIDA	
	Reference	Description			Amount
	146892	CONVEYOR BELT & CYLINDERS FOR ELGIN STREET SW			2,492.81
171620	3/10/16	4,066.00	E690	EVOQUA WATER TECHNOLOGIES LLC	
	Reference	Description			Amount
	146797	L.S.50 , 51 on Binion Rd. needs Bioxide for odor c			4,066.00
171621	3/10/16	500.00	F966	FARMWORKER ASSOCIATION OF FL INC.	
	Reference	Description			Amount
	147180	Donation - Cmsr. Ruth's Discretionary Fund			500.00
171622	3/10/16	47.71	F885	FASTENAL COMPANY	
	Reference	Description			Amount
	146949	1/2" Galvanized bolts ,washers & nuts			47.71
171623	3/10/16	48.16	F22	FEDEX	
	Reference	Description			Amount
	146934	FedEx chrgs for 2016-02 - JTDLandatRogersRd LSFLUM			48.16
171624	3/10/16	1,211.96	F968	FIRST SOUTHWEST COMPANY	
	Reference	Description			Amount
	146304	FINANCIAL ADVISORY SERVICES BLANKET P.O.			1,211.96
171625	3/10/16	1,320.20	F3	FISHER SCIENTIFIC	
	Reference	Description			Amount
	144071	Fisher - PPE misc.			1,092.95
	144099	Wastewater Lab Supplies			227.25
171626	3/10/16	5,440.00	F774	FLORIDA TREND	
	Reference	Description			Amount
	145072	Florida Trend Magazine Full Page Advertisement			5,440.00
171627	3/10/16	1,450.00	G746	GARRETT CORTESE	

**CITY OF AOPKA**  
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Check Dates 3/01/16 thru 3/31/16, All Cash Accounts, Including Voided and Reconciled Checks

Number	Date	Amount	Vendor	Payee	Voiced
	Reference	Description			Amount
	146775	OFOF Professional Photography			1,450.00
171628	3/10/16	154.33	G742	GEMAIRE DISTRIBUTORS LLC	
	Reference	Description			Amount
	144882	Blanket PO Facility Maintenance A/C Repairs			154.33
171629	3/10/16	56.41	G649	GLENN JOINER & SON INC.	
	Reference	Description			Amount
	145371	MISC VEHICLE PARTS			56.41
171630	3/10/16	283.27	G715	GOLD NUGGET DBA	
	Reference	Description			Amount
	144654	Misc Replacement Uniforms			154.67
	145683	Replacement Police Uniforms.			128.60
171631	3/10/16	236.21	G139	GOLF CART ENTERPRISES INC.	
	Reference	Description			Amount
	146845	REPLACE WINDSHIELD & LITE ON POLICE DEPT GOLF C			236.21
171632	3/10/16	511.42	G641	GOVCONNECTION, INC.	
	Reference	Description			Amount
	146801	Dialogic D4PCIUFEQ PCIe w/Fax ROHS board			511.42
171633	3/10/16	600.00	G717	GRACE POINTE CHURCH	
	Reference	Description			Amount
	147135	Donation - Cmsr Ruth's Discretionary Fund			600.00
171634	3/10/16	1,053.68	G661	GRAINGER	
	Reference	Description			Amount
	146961	Inventory items that are at reordering point			1,053.68
171635	3/10/16	94.00	H888	HALLS FEED STORE INC.	
	Reference	Description			Amount
	145341	Police Canine Food			94.00
171636	3/10/16	144.99	H651	HARRINGTON INDUSTRIAL PLASTICS LLC	
	Reference	Description			Amount
	146873	GST Transducer Flange			144.99
171637	3/10/16	11.54	I357	INTERNAL REVENUE SERVICE	
	Reference	Description			Amount
	147149	Ryan McNeely Weekly Payment 03/05/16			11.54
171638	3/10/16	213.00	J789	JANI- KING OF ORLANDO	V 4/14/16
	Reference	Description			Amount
	146855	Blanket PO Cleaning Services Victoria Plaza			213.00
171639	3/10/16	540.46	K100	KAHRS, DONALD	
	Reference	Description			Amount
	147136	COBRA Premium Reimbursement Mar 2016			540.46
171640	3/10/16	2,572.80	L563	LABOR READY SOUTHEAST, INC.	
	Reference	Description			Amount
	145614	Temp help for FY 2015-2016, Blanket PO.			2,572.80
171641	3/10/16	202.00	L491	LAKE JEM FARMS INC.	

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Number	Date	Amount	Vendor	Payee	Voiced
	Reference	Description			Amount
	146897	2 Pallets of 419 Bermuda 1 Pallet Bahia			202.00
171642	3/10/16	940.95	L763	LAKE TIRE & AUTO	
	Reference	Description			Amount
	146418	BLANKET PO INVENTORY TIRES FOR VEHICLES			940.95
171643	3/10/16	135.00	L533	LIBERTY TIRE SERVICES, LLC	
	Reference	Description			Amount
	146317	BLANKET PO FOR REMOVAL OF JUNK TIRES			135.00
171644	3/10/16	11,592.84	L25	LINA	
	Reference	Description			Amount
	147096	Mar'16 Life Insurance & LTD			11,592.84
171645	3/10/16	2,620.00	L750	LINKO TECHNOLOGY INC	
	Reference	Description			Amount
	146905	Annual Software Maintenance for LinkoFOG			2,620.00
171646	3/10/16	72.00	L735	LOGSON, ALEXANDRIA	
	Reference	Description			Amount
	145068	Police Canine Retirement - ODEN			72.00
171647	3/10/16	507.35	M751	MAUDLIN INTERNATIONAL	
	Reference	Description			Amount
	146965	BLOWER FAN, RESISTER & WIRING HARNESS UNIT# 201			507.35
171648	3/10/16	11,417.50	M730	METROPLAN ORLANDO	
	Reference	Description			Amount
	144089	MetroPlan FY 2015-16 Funding			11,417.50
171649	3/10/16	160.00	M1014	MID FLORIDA MATERIALS	
	Reference	Description			Amount
	146727	2 Loads of Sand/ Clay			160.00
171650	3/10/16	21,000.00	M1046	MOORE STEPHENS LOVELACE, P.A.	
	Reference	Description			Amount
	145904	ANNUAL AUDIT SERVICES			21,000.00
171651	3/10/16	933.75	M11	MUNICIPAL EQUIPMENT COMPANY	
	Reference	Description			Amount
	144898	Municipal - Blanket PO for PPE			612.00
	146047	Municipal - Blanket PO for additional PPE			321.75
171652	3/10/16	498.41	N694	NET TRANSCRIPTS, INC	
	Reference	Description			Amount
	144434	Transcript Services - CID/IA			498.41
171653	3/10/16	73.73	N524	NETWORK INNOVATIONS INC.	
	Reference	Description			Amount
	144974	Satellite Phone Services			73.73
171654	3/10/16	175.00	N283	NFPA	
	Reference	Description			Amount
	146557	Membership renewal for NPFA- Chief Bronson			175.00
171655	3/10/16	333.00	O650	ORLANDO BUSINESS TELEPHONE SYSTEM	



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Number	Date	Amount	Vendor	Payee	Voiced
	Reference	Description			Amount
	146876	IP Phone replacement for Glenn Brooks			333.00
171656	3/10/16	1,202.15	O10	ORLANDO PAVING CO	
	Reference	Description			Amount
	146237	(10) TON OF ASPHALT FOR RESTORATION REPAIRS			482.04
	146544	Hot asphalt for Kelly Park Rd. Road crossings RWM			720.11
171657	3/10/16	578.00	P686	PACE ANALYTICAL SERVICES, INC.	
	Reference	Description			Amount
	146108	Wastewater Lab Analysis			578.00
171658	3/10/16	4,654.30	P617	PAT'S PUMP & BLOWER, LLC.	
	Reference	Description			Amount
	146868	Repair kit and labor including laser alignment			4,654.30
171659	3/10/16	100.98	P564	PEP BOYS - MANNY, MOE & JACK, THE	
	Reference	Description			Amount
	145717	MISC ALIGNMENTS ON CITY VEHICLES			100.98
171660	3/10/16	11,366.83	P710	PETROLEUM TRADERS CORP.	
	Reference	Description			Amount
	146739	CITY WIDE GAS 7952 @ 1.43			11,366.83
171661	3/10/16	618.58	P866	PHENOVA, INC.	
	Reference	Description			Amount
	145689	Semi annual performance test for lab compliance			618.58
171662	3/10/16	476.29	P134	PIEDMONT ANIMAL HOSPITAL	
	Reference	Description			Amount
	144972	Canine Vet/Food fees			476.29
171663	3/10/16	474.47	P491	PIRTEK ALTAMONTE SPRINGS	
	Reference	Description			Amount
	144374	MISC SERVICE CALLS TO MAKE HYDRAULIC HOSES ON			474.47
171664	3/10/16	149.99	P898	PITNEY BOWES INC	
	Reference	Description			Amount
	146805	RED INK CARTRIDGE FOR FOR POSTAGE METER			149.99
171665	3/10/16	400.00	P502	POSTMASTER - AOPKA	
	Reference	Description			Amount
	143972	3161 PO Box 1188 rental - due December 3161 PO Box			400.00
171666	3/10/16	492.40	P503	PRO TREE KUSTOMS AND AUTO COLLISION	
	Reference	Description			Amount
	146907	REPAIR BOTH REAR QUARTER PANEL & TRUNK UNIT 30			492.40
171667	3/10/16	27.22	R549	RING POWER CORPORATION	
	Reference	Description			Amount
	145162	MISC CATERPILLAR PARTS			27.22
171668	3/10/16	275.00	R7	RYAN BROTHERS, INC.	
	Reference	Description			Amount
	146294	Wood stakes for parking at OFOF			275.00
171669	3/10/16	1,775.62	S1079	SEMINOLE OFFICE SOLUTIONS, INC	

**CITY OF AOPKA**  
**Check Register**

Check Dates 3/01/16 thru 3/31/16, All Cash Accounts, Including Voided and Reconciled Checks

Number	Date	Amount	Vendor	Payee	Voiced
	Reference	Description			Amount
	144947	BLANKET PO - MONTHLY COPY CHARGE			43.16
	145263	FINANCE COPIER LEASE			280.93
	145332	Copy Machine Lease Records/Chief's Office 9 month			833.41
	145425	Lanier MPC4503 Printer Lease Agreement			128.76
	145551	Lanier MPC4503 Printer Lease Agreement			146.74
	145552	Lanier MPC4503 Printer Lease Agreement			342.62
171670	3/10/16	125.16	S537	SOUTHERN C & E	
	Reference	Description			Amount
	144534	SCE - Flashlight repairs			125.16
171671	3/10/16	471.56	S86	SPRINT	
	Reference	Description			Amount
	145096	Public Services Sprint Cell Phones - Blanket PO			471.56
171672	3/10/16	366.66	S677	SUNBELT RENTALS,INC.	
	Reference	Description			Amount
	146966	Rental of a water tank for Dust control/watering g			366.66
171673	3/10/16	428.19	S600	SUNSHINE STATE ONE CALL OF FL.INC.	
	Reference	Description			Amount
	145471	Blanket P.O. Locates			428.19
171674	3/10/16	550.00	S477	SWIFTREACH NETWORKS, INC.	
	Reference	Description			Amount
	144238	Reverse 911			550.00
171675	3/10/16	588.00	S335	SYN-TECH SYSTEMS, INC.	
	Reference	Description			Amount
	146859	YEARLY LIMITED SUPPORT FOR AIRPORT SOFTWARE			588.00
171676	3/10/16	1,370.47	T767	TAMPA CRANE & BODY, INC.	
	Reference	Description			Amount
	145720	MISC HEIL PARTS FOR SANITATION TRUCKS			645.11
	147048	ADDITIONAL REPAIRS TO BOOM TRUCK UNIT# 190742			725.36
171677	3/10/16	515.11	T348	TPH ACQUISITION LLLP	
	Reference	Description			Amount
	146423	BLANKET PO INVENTORY PARTS FOR VEHICLES			515.11
171678	3/10/16	902.46	T6	TRAIL SAW & MOWER SERVICE, INC.	
	Reference	Description			Amount
	144402	MISC KUBOTA & HONDA PARTS FOR MOWERS			902.46
171679	3/10/16	217.00	T804	TRANSUNION RISK AND ALTERNATIVE DAT.	
	Reference	Description			Amount
	144965	Investigative Database Access			217.00
171680	3/10/16	1,560.00	T835	TRENCH PLATE RENTAL COMPANY	
	Reference	Description			Amount
	146963	Rental of a trech box for installing RWM pipe Kell			1,560.00
171681	3/10/16	157.41	T31	TWC DISTRIBUTORS	
	Reference	Description			Amount

**CITY OF APOPKA**  
**Check Register**

Check Dates 3/01/16 thru 3/31/16, All Cash Accounts, Including Voided and Reconciled Checks

Number	Date	Amount	Vendor	Payee	Voiced
	146784			REPAIR PARTS FOR VICK RD. IRRIGATION SYSTEM	157.41
171682	3/10/16	3,197.50	U75	U S SURPLUS SALES, INC.	
	Reference	Description			Amount
	145362	Uniform awards			647.50
	145579	Crime Scene Uniforms (trousers)			390.00
	145655	Replacement Ballistic Vests			1,620.00
	145854	Replace Expiring Vests			540.00
171683	3/10/16	235.00	U669	UNITED SITE SERVICES	
	Reference	Description			Amount
	145639	Community Garden Restroom - Blanket for FY15-16			50.00
	147107	Portolet Rentals - Halloween Event			185.00
171684	3/10/16	6,323.77	V516	VERIZON WIRELESS	
	Reference	Description			Amount
	143955	Verizon Data Usage Police FY 15/16			3,478.80
	143956	Verizon Data Usage iPads FY 15/16			2,534.42
	143957	Verizon Data Usage Fire FY 15/16			120.73
	143958	Monthly Verizon Data Usage Admin FY 15/16			189.82
171685	3/10/16	2,381.22	V528	VISION SERVICE PLAN - (IC)	
	Reference	Description			Amount
	147144	Vision Insurance March 2016			2,381.22
171686	3/10/16	13,955.00	W701	WAYNE DENSCH, INC.	
	Reference	Description			Amount
	146950	Beer for OFOF			13,955.00
171687	3/10/16	270.76	W504	WINFIELD SOLUTIONS, LLC,	
	Reference	Description			Amount
	146866	Weed Control & Fire Ant Chemicals			270.76
171688	3/18/16	168.00	A203	A-ABRA-KEY-DABRA LOCKSMITH SERV.,INC	
	Reference	Description			Amount
	147056	Repair City hall door by pass key			168.00
171689	3/18/16	988.92	A778	AIR CENTERS OF FLORIDA INC.	
	Reference	Description			Amount
	146865	Repairs to Ingersoll Rand air compressor model# EP			988.92
171690	3/18/16	4,148.48	A205	ALLIED UNIVERSAL CORPORATION	
	Reference	Description			Amount
	145914	Bleach Deliveries - Blanket PO			4,148.48
171691	3/18/16	259.42	A1008	AMERICAN SOLUTIONS FOR BUSINESS	
	Reference	Description			Amount
	147133	American Solutions - Uniform dress shirts			259.42
171692	3/18/16	174.54	A110	APOPKA ACE HARDWARE & LUMBER INC.	
	Reference	Description			Amount
	146435	MISC VEHICLE PARTS FOR WORK ORDERS			59.65
	146819	Chains for Gates/ locks Supplies			114.89
171693	3/18/16	1,478.26	A513	APOPKA ELKS LODGE #2422	

**CITY OF APOPKA**  
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Check Dates 3/01/16 thru 3/31/16, All Cash Accounts, Including Voided and Reconciled Checks

Number	Date	Amount	Vendor	Payee	Voiced
	Reference	Description			Amount
	147308	OFOF 2016 Beer Tips			1,478.26
171694	3/18/16	100.00	A56	APOPKA HIGH SCHOOL	
	Reference	Description			Amount
	147273	Donation to Winter Guard - Cmsr Arrowsmith's Discr			100.00
171695	3/18/16	854.50	A309	APOPKA PLAQUE AND TROPHY	
	Reference	Description			Amount
	146939	Flag Football Participation trophies			842.00
	147082	Apopka Plaque & Trophy-Nameplate for Miss Apopka 2			12.50
171696	3/18/16	3,333.33	A1042	ARTHUR J. GALLAGHER RISK MANAGEMEN	
	Reference	Description			Amount
	147255	Health & Welfare Consulting Services			3,333.33
171697	3/18/16	316.22	A423	AT & T MOBILITY	
	Reference	Description			Amount
	144579	Ambulance Cell Phones			316.22
171698	3/18/16	77.99	B848	BLUETARP FINANCIAL INC	
	Reference	Description			Amount
	146971	Rechargeable handheld radios X talker			77.99
171699	3/18/16	5,729.89	B172	BOUND TREE MEDICAL, LLC.	
	Reference	Description			Amount
	144755	Blanket PO - EMS supplies Boundtree			5,729.89
171700	3/18/16	3,222.29	B940	BOY SCOUTS OF AMERICA	
	Reference	Description			Amount
	147307	OFOF 2016 Parking			3,222.29
171701	3/18/16	200.00	B966	BRYANT, RHONDA	
	Reference	Description			Amount
	147267	Facility Use Deposit Refund			200.00
171702	3/18/16	37.30	C1127	CANON SOLUTIONS AMERICA, INC	
	Reference	Description			Amount
	147161	Chief's Copier Charges			37.30
171703	3/18/16	4,825.00	C634	CDW GOVERNMENT, INC.	
	Reference	Description			Amount
	146541	FusionIO Card Renewals			4,825.00
171704	3/18/16	73.06	C814	CENTRAL FLORIDA TRUCK ACCESSORIES	
	Reference	Description			Amount
	145192	MISC ACCESSORIES FOR VEHICLES			73.06
171705	3/18/16	1,466.69	C459	CENTURYLINK	
	Reference	Description			Amount
	145190	CenturyLink Phone Bills			1,466.69
171706	3/18/16	777.58	C353	CHANNEL INNOVATIONS CORP.	
	Reference	Description			Amount
	146346	Channel Innov - Blanket PO Air Compress			777.58
171707	3/18/16	62.00	C1126	CLERK OF THE COURT, ORANGE CO	

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**Check Register**

Check Dates 3/01/16 thru 3/31/16, All Cash Accounts, Including Voided and Reconciled Checks

Number	Date	Amount	Vendor	Payee	Voiced
	Reference	Description			Amount
	144427	Filing Fees - County/Circuit Court			62.00
171708	3/18/16	150.00	C559	COCA-COLA ENTERPRISES	
	Reference	Description			Amount
	147191	2016 Annual Lease- 2 Vending Machines			150.00
171709	3/18/16	1,932.04	C557	CONSOLIDATED ELECTRICAL DIST.	
	Reference	Description			Amount
	138791	SWITCH GEAR AND LIGHT FIXTURES			1,912.51
	146356	NWRC - Electrical Materials for BBQ Area			19.53
171710	3/18/16	9,153.96	C420	CONSOLIDATED PIPE & SUPPLY COMPANY	
	Reference	Description			Amount
	146870	Kelly Park DI pipe job 20" RWM			9,032.76
	146895	6" IPS Fusion Couplings			121.20
171711	3/18/16	1,500.00	D41	DANNY L. DULGAR, INC.	
	Reference	Description			Amount
	146925	Appraisal Fee-10 acre parcel 80 E. Cleveland Str			1,500.00
171712	3/18/16	21.00	D664	DELL MARKETING L.P.	
	Reference	Description			Amount
	146752	Dell WYSE Client			21.00
171713	3/18/16	715.08	D670	DON REID FORD	
	Reference	Description			Amount
	146417	BLANKET PO FORD PARTS ON VEHICLE WORK ORDERS			715.08
171714	3/18/16	947.00	D630	DON WOOD, INC.	
	Reference	Description			Amount
	146238	Maintenance & Repair of Northwest Fuel Tanks			947.00
171715	3/18/16	0.00	D819	DUKE ENERGY	V 3/18/16
171716	3/18/16	0.00	D819	DUKE ENERGY	V 3/18/16
171717	3/18/16	0.00	D819	DUKE ENERGY	V 3/18/16
171718	3/18/16	0.00	D819	DUKE ENERGY	V 3/18/16
171719	3/18/16	0.00	D819	DUKE ENERGY	V 3/18/16
171720	3/18/16	34,913.74	D819	DUKE ENERGY	
	Reference	Description			Amount
	147263	Mar 2016 Electrical Charges			14,405.39
	147257	Mar 2016 Electrical Charges			0.00
	147257	Mar 2016 Electrical Charges			15,206.51
	147261	Mar 2016 Electrical Charges			0.00
	147261	Mar 2016 Electrical Charges			5,301.84
	147263	Mar 2016 Electrical Charges			0.00
171721	3/18/16	270.00	E103	E.S.BARTLETT PHD CLINIC.PSYCHOL.INC.	
	Reference	Description			Amount
	146554	New PD Candidate Psychologicals			270.00
171722	3/18/16	120.51	E705	ECMC	
	Reference	Description			Amount
	147284	Melissa Cabrera Weekly Payment 03/12/16			120.51

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Number	Date	Amount	Vendor	Payee	Voiced
171723	3/18/16	230.00	E666	ELLER, ASHLEY	
	Reference	Description			Amount
	146857	Per Diem - PIO Course			230.00
171724	3/18/16	2,816.34	E563	EMBLEM ENTERPRISES, INC.	
	Reference	Description			Amount
	146985	ISO Class 1 Uniform Patches			2,816.34
171725	3/18/16	1,496.00	E164	ETR, L.L.C.	
	Reference	Description			Amount
	145947	installation of 6 Stryker Power Lift Devices			1,496.00
171726	3/18/16	150.00	E713	EVANS, WILLIAM E	
	Reference	Description			Amount
	147167	Bill Evans-March 2016 FTRU Performance			150.00
171727	3/18/16	5.31	F22	FEDEX	
	Reference	Description			Amount
	144970	Misc Shipping charges			5.31
171728	3/18/16	200.00	F972	FERNANDEZ, LUIS	
	Reference	Description			Amount
	147268	Facility Use Deposit Refund			200.00
171729	3/18/16	727.10	F136	FIFTH THIRD BANK	
	Reference	Description			Amount
	147309	Recreation Supplies			727.10
171730	3/18/16	3,227.60	F535	FIRE SERVICE TESTING CO, INC.	
	Reference	Description			Amount
	146270	Sergeant's Promotional Test			3,227.60
171731	3/18/16	5,128.32	F132	FLORIDA CENTRAL RAILROAD	
	Reference	Description			Amount
	145472	Blanket P.O.Lease for use of ROW , utility pipe in.			598.32
	147143	SIGNAL MAINTENANCE 8TH STREET APOP-34-017 (#6252			1,128.00
	147168	SIGNAL MAINTENANCE AT ROBINSON AVE (APOP-34-03			1,701.00
	147169	SIGNAL MAINTENANCE AT WEST 4TH STREET(APOP-34-			1,701.00
171732	3/18/16	325.33	F420	FLORIDA LIFT EXPERTS, LLC.	
	Reference	Description			Amount
	145351	INSPECTION OF VEHICLE LIFTS IN SHOP			325.33
171733	3/18/16	60.00	F649	FRPA	
	Reference	Description			Amount
	146936	FRPA Local Program March 10th- Power of Parks			60.00
171734	3/18/16	185.00	F375	FVMA-FLORIDA VEGETATIVE MNGMT ASSN	
	Reference	Description			Amount
	146794	Mark Miller CEU's Plant & Tree Workshop			185.00
171735	3/18/16	627.71	G332	GENSET SERVICES INC.	
	Reference	Description			Amount
	146860	SERVICE CALL FOR PM ON CNG GENERATOR AT FUEL I			627.71
171736	3/18/16	725.90	G165	GO KEM, INC., dba AUTO KARE	

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Number	Date	Amount	Vendor	Payee	Voiced
	Reference	Description			Amount
	145979	Engine and Bay Cleaning Supplies for 4 Stations			725.90
171737	3/18/16	2,580.70	G661	GRAINGER	
	Reference	Description			Amount
	145156	MISC VEHICLE PARTS			62.20
	146975	(3) FULL BODY HARNESS, UNIVERSAL 400 LB (SAFETY)			379.98
	146976	(6) BALLAST HIGH OUTPUT MAGNETIC, RAPID 345W FOF			1,527.24
	146999	1" thru 1 1/2 short impact socket set 3/4" drive			611.28
171738	3/18/16	145.00	H227	H D SUPPLY WATER WORKS, LTD.	
	Reference	Description			Amount
	147141	4" X 3" Filler Flange			145.00
171739	3/18/16	230.00	H863	HALL, CYNTHIA	
	Reference	Description			Amount
	146858	Per Diem - PIO Course -			230.00
171740	3/18/16	517.00	H888	HALLS FEED STORE INC.	
	Reference	Description			Amount
	145341	Police Canine Food			517.00
171741	3/18/16	290.38	H218	HOL-MAC CORPORATION	
	Reference	Description			Amount
	146972	TAILGATE LATCH ASSEMBLY FOR SANITATION CLAW TF			290.38
171742	3/18/16	0.00	H50	HOME DEPOT CREDIT SERVICES	V 3/18/16
171743	3/18/16	1,848.21	H50	HOME DEPOT CREDIT SERVICES	
	Reference	Description			Amount
	146028	Materials for completion of the Carroll Bldg proj.			87.29
	146060	Blanket PO for Facility Repairs			681.78
	146140	NW BBQ Area Electrical Materials			55.91
	146242	replacement Bulbs for Community Center			254.03
	147127	C-Fold/Multi cabinet for the Carroll Bldg project			40.63
	144085	Operating Supplies for the Water Plants BLANKET PO			35.64
	144106	Wastewater Maintenance Supplies			253.15
	145609	Blanket PO for Facility Repairs			167.17
	145893	Landscape Timbers Rock, Nails, Shovel Etc.			272.61
171744	3/18/16	291.31	H5	HYDRAULIC HOUSE, INC.	
	Reference	Description			Amount
	145981	HYDRAULIC COUPLERS			291.31
171745	3/18/16	136.61	I186	IDEXX DISTRIBUTION CORP.	
	Reference	Description			Amount
	146914	Vessel Racks for bacteriological samples			136.61
171746	3/18/16	11.54	I357	INTERNAL REVENUE SERVICE	
	Reference	Description			Amount
	147283	Ryan McNeely Weekly Payment 03/12/16			11.54
171747	3/18/16	14.86	J801	JPMORGAN CHASE BANK, N.A.	
	Reference	Description			Amount

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Check Dates 3/01/16 thru 3/31/16, All Cash Accounts, Including Voided and Reconciled Checks

Number	Date	Amount	Vendor	Payee	Voiced
	147083			Subpoena -2015-017945	14.86
171748	3/18/16	6,420.00	K615	K92.3	
	Reference	Description			Amount
	145799			30-second radio ads run M-F 6a-10a; start date: 1/	6,300.00
	145801			Cox Media Group - Promotional Services for OFOF	120.00
171749	3/18/16	168.26	K45	KENWORTH OF CENTRAL FLORIDA INC	
	Reference	Description			Amount
	147147			AIR FILTER FOR CNG CLAW TRUCK UNIT# 201560	168.26
171750	3/18/16	379.60	L278	L & B DISTRIBUTING	
	Reference	Description			Amount
	146995			1 5/16" thru 1 1/2" Gear Wrenchs	379.60
171751	3/18/16	1,382.88	L563	LABOR READY SOUTHEAST, INC.	
	Reference	Description			Amount
	145614			Temp help for FY 2015-2016, Blanket PO.	1,382.88
171752	3/18/16	3,044.97	L6	LAKE AOPKA NATURAL GAS DISTRICT	
	Reference	Description			Amount
	146773			CITY WIDE NATURAL GAS FOR VEHICLES 1/28/16-2/29/16	2,158.43
	147299			Natural Gas Bills 01/28/16 - 02/29/16	886.54
171753	3/18/16	224.55	L727	LIVEVIEW GPS, INC	
	Reference	Description			Amount
	144426			GPS Tracking Services	224.55
171754	3/18/16	281.90	M858	MAC PAPERS	
	Reference	Description			Amount
	144651			Copy Paper - Various Division	281.90
171755	3/18/16	1,500.00	M197	MALTBYS TREE SERVICE INC.	
	Reference	Description			Amount
	146932			Tree Trimming @ JGG WTP	1,500.00
171756	3/18/16	200.00	M897	MARTIN, PATRICK	
	Reference	Description			Amount
	147269			Facility Use Deposit Refund	200.00
171757	3/18/16	735.50	M313	MILLIKAN BATTERY & ELECTRIC	
	Reference	Description			Amount
	146430			STOCK BATTERIES	164.00
	146743			BLANKET PO FOR STARTERS, RADIATORS VEHICLES	571.50
171758	3/18/16	1,682.45	M298	MJ ALTMAN COMPANIES, INC.	
	Reference	Description			Amount
	147275			Fees due on collections	1,682.45
171759	3/18/16	200.00	M317	McMASTER, CAROL	
	Reference	Description			Amount
	147270			Facility Use Deposit Refund	200.00
171760	3/18/16	3,704.09	N337	NEB GROUP, INC.	
	Reference	Description			Amount
	145835			Blanket PO for monthly ambulance EMS billing	3,704.09



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Number	Date	Amount	Vendor	Payee	Voiced
171761	3/18/16	776.73	N670	OMG NATIONAL	
	Reference	Description			Amount
	145356	Public Educatrion Materials			776.73
171762	3/18/16	99.50	O5	ORANGE COUNTY COMPTROLLER	
	Reference	Description			Amount
	144157	Comptroller Filing Fees			99.50
171763	3/18/16	620.00	O27	ORLANDO APOPKA AIRPORT ASSOCIATION	
	Reference	Description			Amount
	147152	QUARTERLY ASSOCIATION DUES			620.00
171764	3/18/16	750.00	O338	ORLANDO SENTINEL	
	Reference	Description			Amount
	146103	Orlando Sentinel Trade Agreement for OFOF Ads			750.00
171765	3/18/16	230.00	P452	PARKINSON, ANDREW	
	Reference	Description			Amount
	146856	Per Diem - PIO Course			230.00
171766	3/18/16	180.00	P937	PIERRE, CLAUDIA	
	Reference	Description			Amount
	147271	Facility Use Deposit Refund			180.00
171767	3/18/16	956.00	P348	POWER BRAKE	
	Reference	Description			Amount
	144804	DIAMOND DUST FRONT & REAR ROTORS FOR FUSIONS			956.00
171768	3/18/16	763.30	P503	PRO TREE KUSTOMS AND AUTO COLLISION	
	Reference	Description			Amount
	146928	REPAIR FRONT BUMPER COVER UNIT# 101235			565.20
	147030	REPAIR L/R DOOR QUARTER PANEL UNIT# 111207			198.10
171769	3/18/16	1,559.66	P934	PROFESSIONAL PLASTICS, INC	
	Reference	Description			Amount
	146816	Training Tower Burn room thermal tiles			1,559.66
171770	3/18/16	166.84	P668	PUBLIC SERVICES PETTY CASH	
	Reference	Description			Amount
	147276	Public Services Petty Cash Reimbursement			166.84
171771	3/18/16	1,000.00	R804	RANDALL A. SOMERS	
	Reference	Description			Amount
	147282	Contract Services - Airport			1,000.00
171772	3/18/16	550.00	R827	RANDY MEANS CONSULTING	
	Reference	Description			Amount
	144429	Traffic Safety Program Hearing Officer			550.00
171773	3/18/16	2,698.75	R200	RAPID SYSTEMS	
	Reference	Description			Amount
	144450	PD Rapid Systems Fiber Connectivity			2,698.75
171774	3/18/16	126.69	R233	RICOH USA, INC.	
	Reference	Description			Amount
	145852	Copier lease fees 12/31/15 - 09/30/16 (4020/4021)			126.69

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Number	Date	Amount	Vendor	Payee	Voiced
171775	3/18/16	4,000.00	R549	RING POWER CORPORATION	
	Reference	Description			Amount
	138674	GENERATORS			4,000.00
171776	3/18/16	738.68	S136	SAFETY PRODUCTS INC	
	Reference	Description			Amount
	147006	Inventory items that are at reordering point			738.68
171777	3/18/16	50.00	S1104	SHAW, COURTNEY	
	Reference	Description			Amount
	147265	Coaching refund			50.00
171778	3/18/16	17,772.00	S301	SOUTHERN SEWER EQUIPMENT	
	Reference	Description			Amount
	146543	PARTS TO REPAIR SANITATION UNIT# 241556 & 221480			17,772.00
171779	3/18/16	445.36	S86	SPRINT	
	Reference	Description			Amount
	144428	Cell phone - Tracking Devices - Bait Car Services			445.36
171780	3/18/16	108.39	S86	SPRINT	
	Reference	Description			Amount
	144802	Sprint for Ambulance Heart Monitors FY15-16			108.39
171781	3/18/16	77.67	S151	SURPLUS STEEL & SUPPLY, INC	
	Reference	Description			Amount
	146844	REPAIR FRAME FOR ROOF ON POLICE DEPT GOLF CAR			77.67
171782	3/18/16	2,159.35	T270	TAYLORS PHARMACY	
	Reference	Description			Amount
	144758	Blanket PO - EMS medications			2,159.35
171783	3/18/16	68.60	B967	THE BANCORP BANK	
	Reference	Description			Amount
	147300	UC Vehicle Toll Violations			68.60
171784	3/18/16	732.16	T348	TPH ACQUISITION LLLP	
	Reference	Description			Amount
	146044	MONTHLY BLANKET PO STOCK & MISC VEHICLE PARTS			732.16
171785	3/18/16	104.65	T336	TRADEMARK PRESS SOLUTIONS INC.	
	Reference	Description			Amount
	144275	Business Cards - Police			104.65
171786	3/18/16	34.39	U15	UNITED PARCEL SERVICE	
	Reference	Description			Amount
	147175	FREIGHT TO RETURN DEFECTIVE PARTS TO MANUFACTURER			9.65
	147182	FREIGHT TO RETURN PRODUCT TO DON WOOD & GOR.			24.74
171787	3/18/16	110.00	W772	WALKER, MYRIAM	
	Reference	Description			Amount
	147266	Coaching refund			110.00
171788	3/18/16	7,569.98	W535	WASTE MANAGEMENT OF VISTA LANDFILL	
	Reference	Description			Amount
	145595	Tipping fees for FY. 2015-2016, Blanket PO.			7,569.98

**CITY OF AOPKA**  
**Check Register**

Check Dates 3/01/16 thru 3/31/16, All Cash Accounts, Including Voided and Reconciled Checks

Number	Date	Amount	Vendor	Payee	Voiced
171789	3/18/16	836.15	W613	WELDON PARTS-ORLANDO	
	Reference	Description			Amount
	146045	MONTHLY STOCK & MISC BLANKET PO FOR CITY WIDE '			836.15
171790	3/18/16	200.00	W771	WILLIAMS, BERISHA	
	Reference	Description			Amount
	147264	Facility Use Deposit Refund			200.00
171791	3/24/16	1,255.00	A714	ABSOLUTE IMAGE	
	Reference	Description			Amount
	145866	Dance T-shirts ( Dance For Fun Program)			360.00
	146504	T-Shirts for 5k race Rabbit Run on 3/19/16			895.00
171792	3/24/16	549.00	A264	AGENDAPAL CORPORATION	
	Reference	Description			Amount
	143959	AgendaPal subscription			549.00
171793	3/24/16	15,946.53	A347	ALLSTATE	
	Reference	Description			Amount
	147321	Mar'16 Allstate Ancillary Policies			15,946.53
171794	3/24/16	575.14	A338	AMERICAN MINORITY BUSINESS FORMS	
	Reference	Description			Amount
	146709	1120 AP Checks			575.14
171795	3/24/16	98,626.00	A915	AMERICAN TRAFFIC SOLUTIONS, INC.	
	Reference	Description			Amount
	144278	Traffic Safety Program Fee			98,626.00
171796	3/24/16	484.40	A28	AMERICAN WIRE & TERMINAL	
	Reference	Description			Amount
	147230	Inventory items 8" & 15" cable ties			484.40
171797	3/24/16	109.50	A595	APOPKA BOTTLE & R.V.GAS CENTER INC.	
	Reference	Description			Amount
	145101	Propane for the fork lift 4 tanks at a time			109.50
171798	3/24/16	3,588.20	B968	BAHIA SHRINE	
	Reference	Description			Amount
	147338	OFOF 2016 Beer Tips			3,588.20
171799	3/24/16	1,508.35	B962	BEVERAGE BODY & TRAILER	
	Reference	Description			Amount
	146931	REPAIRS TO BODY DAMAGE ON SANITATION# 231567			1,508.35
171800	3/24/16	0.00	C234	CARE HERE	V 3/24/16
171801	3/24/16	0.00	C234	CARE HERE	V 3/24/16
171802	3/24/16	8,556.00	C234	CARE HERE	
	Reference	Description			Amount
	144841	Blanket PO - CareHere Clinic			1,347.57
	144841	Blanket PO - CareHere Clinic			4,598.85
	144841	Blanket PO - CareHere Clinic			2,609.58
171803	3/24/16	847.85	C116	CFM DISTRIBUTING CO., INC.	
	Reference	Description			Amount

**CITY OF AOPKA**  
**Check Register**

Check Dates 3/01/16 thru 3/31/16, All Cash Accounts, Including Voided and Reconciled Checks

Number	Date	Amount	Vendor	Payee	Voiced
	145664	Cleaning Supplies	Fran Carlton		307.86
	146183	Cleaning Supplies	FCC		539.99
171804	3/24/16	382.50	C1172	CORPORATE VISUAL SERVICES	
	Reference	Description			Amount
	147277	Digital Headshots for City Council Members.			382.50
171805	3/24/16	29,302.53	C617	CUES	
	Reference	Description			Amount
	146483	INSPECTION, REBUILD & UPGRADE TV VAN CAMERA			29,302.53
171806	3/24/16	676.28	D664	DELL MARKETING L.P.	
	Reference	Description			Amount
	146752	Dell WYSE Client			676.28
171807	3/24/16	14,374.25	D601	DEPT. OF CORRECTIONS	
	Reference	Description			Amount
	145901	INMATE SERVICES - BLANKET PURCHASE ORDER			14,374.25
171808	3/24/16	0.00	D819	DUKE ENERGY	V 3/24/16
171809	3/24/16	0.00	D819	DUKE ENERGY	V 3/24/16
171810	3/24/16	0.00	D819	DUKE ENERGY	V 3/24/16
171811	3/24/16	0.00	D819	DUKE ENERGY	V 3/24/16
171812	3/24/16	0.00	D819	DUKE ENERGY	V 3/24/16
171813	3/24/16	0.00	D819	DUKE ENERGY	V 3/24/16
171814	3/24/16	0.00	D819	DUKE ENERGY	V 3/24/16
171815	3/24/16	0.00	D819	DUKE ENERGY	V 3/24/16
171816	3/24/16	147,073.49	D819	DUKE ENERGY	
	Reference	Description			Amount
	147355	Mar 2016 Electrical Charges			629.56
	147349	Mar 2016 Electrical Charges			0.00
	147349	Mar 2016 Electrical Charges			10,857.32
	147350	Mar 2016 Electrical Charges			0.00
	147350	Mar 2016 Electrical Charges			68,135.08
	147351	Mar 2016 Electrical Charges			0.00
	147351	Mar 2016 Electrical Charges			0.00
	147351	Mar 2016 Electrical Charges			0.00
	147351	Mar 2016 Electrical Charges			67,451.53
171817	3/24/16	120.51	E705	ECMC	
	Reference	Description			Amount
	147364	Melissa Cabrera Weekly Payment 03/19/16			120.51
171818	3/24/16	35.00	E593	ELECTRONICS DEPOT	
	Reference	Description			Amount
	145707	MISC ALARM INSTALLS & WINDOW TINTING			35.00
171819	3/24/16	1,228.21	E664	EMPOWER SOFTWARE SOLUTIONS, INC.	
	Reference	Description			Amount
	144538	Hosted Empower Time			1,228.21
171820	3/24/16	8,603.00	F507	FERRAN SERVICES & CONTRACTING, INC.	
	Reference	Description			Amount

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Check Dates 3/01/16 thru 3/31/16, All Cash Accounts, Including Voided and Reconciled Checks

Number	Date	Amount	Vendor	Payee	Voided
	144198	1022 - City Hall Emergency Plumbing Repairs			1,441.00
	146085	Quarterly A/C Maintenance FY1516			617.00
	146322	Installation of new 4" Sewer Line - City Hall			6,545.00
171821	3/24/16	1,976.25	F347	FLORIDA DEPARTMENT OF LAW ENFORCEMENT	
	Reference	Description			Amount
	144159	Finger Printing Fees - City Wide			1,976.25
171822	3/24/16	314.45	F152	FLORIDA STATE FIRE EQUIPMENT, INC.	
	Reference	Description			Amount
	147224	Fla St.Fire Equip - Portable Extinguisher service			314.45
171823	3/24/16	148.20	G166	GRAPHIC SOURCE OF CENTRAL FLORIDA L	
	Reference	Description			Amount
	146948	DEPARTMENT DECALS & UNIT# FOR NEW VEHICLES			148.20
171824	3/24/16	244.89	H83	HACH COMPANY	
	Reference	Description			Amount
	146869	Laboratory filter assembly turbidimeter			244.89
171825	3/24/16	0.00	H50	HOME DEPOT CREDIT SERVICES	V 3/24/16
171826	3/24/16	0.00	H50	HOME DEPOT CREDIT SERVICES	V 3/24/16
171827	3/24/16	3,123.60	H50	HOME DEPOT CREDIT SERVICES	
	Reference	Description			Amount
	146736	3 Pallets of Forest Brown Mulch			442.30
	147034	Blanket PO- Facility Repairs			301.51
	147242	Bathroom repairs for Blue Warehouse -Inmates			3.94
	144085	Operating Supplies for the Water Plants BLANKET PO			136.46
	144106	Wastewater Maintenance Supplies			33.40
	145469	Blanket P.O. Hydrant Paint			47.16
	146060	Blanket PO for Facility Repairs			85.24
	146140	NW BBQ Area Electrical Materials			687.54
	146242	replacement Bulbs for Community Center			74.90
	146344	Home Depot-Tape for Marking Tents at OFOF			79.52
	146611	48 bags of Quick Crete for Batting Cage poles			199.96
	146703	Electrical Supplies for NWRC Installation			1,031.67
171828	3/24/16	11.54	I357	INTERNAL REVENUE SERVICE	
	Reference	Description			Amount
	147362	Ryan McNeely Weekly Payment 03/19/16			11.54
171829	3/24/16	273.00	K616	K & K GLASS INC	
	Reference	Description			Amount
	145960	MISC WINDSHIELD REPAIRS FOR CITY VEHICLES			273.00
171830	3/24/16	2,710.00	M710	MID STATE FENCE COMPANY,INC.	
	Reference	Description			Amount
	146609	Fence for Batting Cages			2,710.00
171831	3/24/16	375.00	M546	MISS FLORIDA SCHOLARSHIP PAGEANT	
	Reference	Description			Amount
	147315	Miss Florida Pageant Ad for Miss Apopka 2016-Pagea			375.00
171832	3/24/16	554.23	N667	NEXTRAN TRUCK CENTER - ORLANDO	

**CITY OF AOPKA**  
**Check Register**

Check Dates 3/01/16 thru 3/31/16, All Cash Accounts, Including Voided and Reconciled Checks

Number	Date	Amount	Vendor	Payee	Voiced
	Reference	Description			Amount
	146043	BLANKET PO FOR REPAIRS & PARTS FOR MACK TRUCK			554.23
171833	3/24/16	406.61	N653	NORTHERN SAFETY CO.,INC.	
	Reference	Description			Amount
	147163	Inventory items that are at reordering point			406.61
171834	3/24/16	0.00	O670	O'REILLY AUTO PARTS	V 3/24/16
171835	3/24/16	628.99	O670	O'REILLY AUTO PARTS	
	Reference	Description			Amount
	146419	BLANKET PO MISC VEHICLE PARTS FOR WORK ORDEF			628.99
	146419	BLANKET PO MISC VEHICLE PARTS FOR WORK ORDEF			0.00
171836	3/24/16	162.00	O665	OCE MT DORA LLC	
	Reference	Description			Amount
	145517	Landfill charges from P.S. trash bin			162.00
171837	3/24/16	38.70	O529	ORLANDO HOSE & FLUIDPOWER	
	Reference	Description			Amount
	146954	STRAIGHT THREAD ELBOW FOR NEW CYLINDERS 22-1'			38.70
171838	3/24/16	84.42	O3	ORLANDO SENTINEL	
	Reference	Description			Amount
	147239	Sentinel - RFQ Advertisement			84.42
171839	3/24/16	377.00	P174	P & A GROUP, THE	
	Reference	Description			Amount
	147322	Apr 16 Flexible Spending Account			377.00
171840	3/24/16	96.00	P686	PACE ANALYTICAL SERVICES, INC.	
	Reference	Description			Amount
	146108	Wastewater Lab Analysis			96.00
171841	3/24/16	1,050.17	P710	PETROLEUM TRADERS CORP.	
	Reference	Description			Amount
	146740	GAS 410 @ 1.61 & DIESEL 261 @ 1.50 FOR NORTHWEST			1,050.17
171842	3/24/16	1,127.43	P795	PREFERRED GOVERNMENTAL INS. TRUST	
	Reference	Description			Amount
	147176	WORKERS' COMPENSATION DEDUCTIBLES FEBRUARY :			1,127.43
171843	3/24/16	940.00	P612	PRO-CHEM,INC.	
	Reference	Description			Amount
	147091	Fast clean asphalt remover			450.00
	147186	Inventory items that are at reordering point			490.00
171844	3/24/16	0.00	P929	PUBLIC RISK MANAGEMENT OF FLORIDA	V 3/24/16
171845	3/24/16	0.00	P929	PUBLIC RISK MANAGEMENT OF FLORIDA	V 3/24/16
171846	3/24/16	93,280.00	P929	PUBLIC RISK MANAGEMENT OF FLORIDA	
	Reference	Description			Amount
	147172	SECOND QUARTER INSURANCE PREMIUMS 2015-16			8,177.63
	147172	SECOND QUARTER INSURANCE PREMIUMS 2015-16			71,027.32
	147172	SECOND QUARTER INSURANCE PREMIUMS 2015-16			14,075.05
171847	3/24/16	6.80	R232	RICOH USA, INC.	

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Check Dates 3/01/16 thru 3/31/16, All Cash Accounts, Including Voided and Reconciled Checks

Number	Date	Amount	Vendor	Payee	Voiced
	Reference	Description			Amount
	145092	HR Ricoh Printing Overages - Blanket PO			6.80
171848	3/24/16	129.58	R233	RICOH USA, INC.	
	Reference	Description			Amount
	145902	Blanket PO for Fire Department lease on Ricoh MPC4			129.58
171849	3/24/16	234.00	R114	RIZO, REAGAN	
	Reference	Description			Amount
	147333	Reimbursement for Orlando City Soccer on March 11,			234.00
171850	3/24/16	224.25	S1105	SHAH, KHADINE	
	Reference	Description			Amount
	147334	Reimbursement for Orlando City Soccer on March 11,			224.25
171851	3/24/16	7,018.50	S1047	SHEPARD, SMITH & CASSADY, P.A.	
	Reference	Description			Amount
	144501	City Attorney Legal Fees FY 2015-2016			7,018.50
171852	3/24/16	75.92	S1004	SOUTHERN RESCUE TOOLS, LLC	
	Reference	Description			Amount
	147033	TNT Extrication tool parts			75.92
171853	3/24/16	158.05	S148	SPRING HILL NURSERY, INC	
	Reference	Description			Amount
	146861	Various Flowers to redo Memorial Garden			158.05
171854	3/24/16	483.67	S677	SUNBELT RENTALS,INC.	
	Reference	Description			Amount
	147228	Rental of a roller for asphalt job sewer mainten			483.67
171855	3/24/16	118.00	S151	SURPLUS STEEL & SUPPLY, INC	
	Reference	Description			Amount
	147100	TANDEM AXLE FENDERS & BEARING KITS UNIT# 340704			118.00
171856	3/24/16	674.50	U311	U CART IT CONCRETE, LLC	
	Reference	Description			Amount
	146946	(4) YD OF 3000 PSI CEMENT FOR 1381 GOLF COURSE DF			674.50
171857	3/24/16	444.07	U509	USA BLUE BOOK	
	Reference	Description			Amount
	147045	Inventory items that are at reordering point			444.07
171858	3/24/16	238.17	W15	WALKER MILLER EQUIPMENT CO. INC.	
	Reference	Description			Amount
	146973	CARBURETOR, ORINGS, PIN, GASKETS ETC UNIT# 3309			238.17
171859	3/24/16	82.48	W653	WALMART	
	Reference	Description			Amount
	146825	Misc Supplies - OPEN - WalMart			82.48
171860	3/24/16	586.54	W590	WALMART COMMUNITY/RFCSELLC	
	Reference	Description			Amount
	146501	Easter Baskets for NWRC & WP for Easter egg hunt			586.54
171861	3/24/16	74.45	W540	WESCO TURF , INC.	

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Check Dates 3/01/16 thru 3/31/16, All Cash Accounts, Including Voided and Reconciled Checks

Number	Date	Amount	Vendor	Payee	Voiced
	Reference	Description			Amount
	145271	MISC MOWER PARTS			74.45
171862	3/24/16	750.00	W773	WILKRIS INCORPORATED	
	Reference	Description			Amount
	147369	Vendor cancelled a month prior to the 2016 OFOF du			750.00
171863	3/24/16	237.50	W45	WILLIAMS, ALONZO	
	Reference	Description			Amount
	147363	Council Retirement April 2016			237.50
171864	3/24/16	167.50	Z55	ZONES, INC	
	Reference	Description			Amount
	147046	Public Services Workstatoin Equipment			167.50
171865	3/31/16	59,536.60	V581	VOGEL BROS. BUILDING CO	
	Reference	Description			Amount
	140137	NORTH SHORE AUGMENTATION PHASE 2			59,536.60
20160001	3/31/16	19,382.93	F561	FERGUSON ENTERPRISES, INC.	
	Reference	Description			Amount
	145965	RWM Parts for Ocoee Apopka Rd. /437A			19,382.93
20160003	3/31/16	29,298.64	L491	LAKE JEM FARMS INC.	
	Reference	Description			Amount
	146941	Additional Sod for BBQ area at NWRC			29,298.64
20160003	3/31/16	46,229.96	L491	LAKE JEM FARMS INC.	
	Reference	Description			Amount
	145771	Sod for NW Park Improvemeents Ph 4A			46,229.96
20160010	3/31/16	1,889.16	A35	A.O.K. TIRE MART	
	Reference	Description			Amount
	146416	BLANKET PO TIRE REPAIRS & REPLACEMENTS WORK (			1,889.16
20160010	3/31/16	1,850.00	A35	A.O.K. TIRE MART	
	Reference	Description			Amount
	146867	REPLACE TRANS WITH REMAN (SLIPPING) UNIT# 11122E			1,850.00
20160011	3/31/16	200.00	A51	APOPKA AUTO UPHOLSTERY	
	Reference	Description			Amount
	146953	E2 hose bed cover			200.00
20160012	3/31/16	192.00	A15	APOPKA CHIEF, THE	
	Reference	Description			Amount
	144387	Advertising - Blanket PO			192.00
20160012	3/31/16	1,014.00	A15	APOPKA CHIEF, THE	
	Reference	Description			Amount
	146776	Apopka Chief-Promotional services OFOF			1,014.00
20160013	3/31/16	1,440.00	A712	ALLMAX SOFTWARE, INC.	
	Reference	Description			Amount
	146906	Annual Antero Maintenance Software Support			1,440.00
20160014	3/31/16	68.59	A112	AMAZON HOSE AND RUBBER CO	



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Number	Date	Amount	Vendor	Payee	Voiced
	Reference	Description			Amount
	146770	1 1/2" Can locks & discharge hose			68.59
20160015	3/31/16	259.13	A882	ANGELO'S AGGREGATE MATERIALS LTD.	
	Reference	Description			Amount
	146228	(20) TON OF CONCRETE GRINDINGS for SIDEWALK REP/			259.13
20160016	3/31/16	69.95	A176	APOKA FLORIST	
	Reference	Description			Amount
	146712	Funeral Arrangements			69.95
20160017	3/31/16	795.00	A1049	AQUATIC SYSTEMS, INC	
	Reference	Description			Amount
	146852	Pond Aquatic Weed Control Maintenance			795.00
20160018	3/31/16	519.94	A945	ATLANTIC.NET	
	Reference	Description			Amount
	146432	Hosted SQL GIS Database			519.94
20160019	3/31/16	479.70	B633	BATTERY BANK, THE	
	Reference	Description			Amount
	146034	Replacement batteries for L.S. panels backup alarm			479.70
20160020	3/31/16	1,490.00	B13	BOB'S BARRICADES INC.	
	Reference	Description			Amount
	146330	Bob's Barricades-Barricade Rentals			1,490.00
20160021	3/31/16	260.10	C445	CAPITAL OFFICE PRODUCTS	
	Reference	Description			Amount
	146843	Admin. & Comm. Outreach - Copy Paper			260.10
20160022	3/31/16	351.36	C634	CDW GOVERNMENT, INC.	
	Reference	Description			Amount
	146695	HP Officejet Pro 276dw MFP			351.36
20160023	3/31/16	249.20	C956	CPI INTERNATIONAL	
	Reference	Description			Amount
	145503	100ml Sample Bottle, w/ Thiosulfate, 100pk			249.20
20160024	3/31/16	81.87	C1116	COPIER CONNECTION LLC	
	Reference	Description			Amount
	146088	Blanket PO PS Copier Service Agreement			81.87
20160025	3/31/16	1,808.00	E411	ENFORCEMENT ELECTRONICS SERVICE	
	Reference	Description			Amount
	145482	Calibrate Police Vehicles - Electronics			1,808.00
20160026	3/31/16	9,500.00	E629	ESRI	
	Reference	Description			Amount
	146880	ArcGIS for Desktop/Server Annual Maintenance			9,500.00
20160027	3/31/16	2,370.00	M814	MICHIGAN ST. PUMP & ELECTRIC MOTOR	
	Reference	Description			Amount
	146799	L.S.79 needs repair to a 10hp pump			2,370.00
20160027	3/31/16	4,876.00	M814	MICHIGAN ST. PUMP & ELECTRIC MOTOR	

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Number	Date	Amount	Vendor	Payee	Voiced
	Reference	Description			Amount
	146376	L.S.46 Sheeler Hills needs repair to a 7.4 pump			4,876.00
20160027	3/31/16	1,692.44	M814	MICHIGAN ST. PUMP & ELECTRIC MOTOR	
	Reference	Description			Amount
	146798	L.S.78 needs repair to a 10hp pump			1,692.44
20160027	3/31/16	6,986.00	M814	MICHIGAN ST. PUMP & ELECTRIC MOTOR	
	Reference	Description			Amount
	146265	L.S.54 needs repair to a 20hp pump Mt. Berwick,RSR			6,986.00
20160028	3/31/16	80.54	O576	OFFICE DEPOT, INC.	
	Reference	Description			Amount
	147181	Office Supplies for Heros Program			80.54
20160028	3/31/16	257.53	O94	OFFICE DEPOT	
	Reference	Description			Amount
	146848	Office Supplies			257.53
20160028	3/31/16	61.06	O576	OFFICE DEPOT, INC.	
	Reference	Description			Amount
	146750	CA - Office Supplies			61.06
20160028	3/31/16	212.73	O576	OFFICE DEPOT, INC.	
	Reference	Description			Amount
	146443	Feb Office Sup - Office Depot - 4020/4021			212.73
20160029	3/31/16	2,842.05	P40	PRIDE ENTERPRISES	
	Reference	Description			Amount
	146316	BLANKET PO FOR STOCK FOR PRIDE RECAP TIRES			2,842.05
20160030	3/31/16	380.07	R233	RICOH USA, INC.	
	Reference	Description			Amount
	145852	Copier lease fees 12/31/15 - 09/30/16 (4020/4021)			380.07
20160031	3/31/16	3,000.00	S521	SHELLEY'S SEPTIC TANKS	
	Reference	Description			Amount
	146605	Shelley's sludge hauling on existing contract thru			3,000.00
20160032	3/31/16	151.19	O576	OFFICE DEPOT, INC.	
	Reference	Description			Amount
	143970	3161 Operating Supplies			151.19
20160032	3/31/16	19.99	O94	OFFICE DEPOT	
	Reference	Description			Amount
	144979	Office Supplies			19.99
20160033	3/31/16	333.00	O650	ORLANDO BUSINESS TELEPHONE SYSTEM	
	Reference	Description			Amount
	146256	Part Time Conservation Aide IP Phone			333.00
20160034	3/31/16	3,098.83	S728	STERICYCLE INC.	
	Reference	Description			Amount
	145836	blanket PO for monthly bio hazard waste disposal			3,098.83
20160035	3/31/16	1,466.06	Q152	QUADMED, INC.	

**CITY OF AOPKA**  
**Check Register**

Check Dates 3/01/16 thru 3/31/16, All Cash Accounts, Including Voided and Reconciled Checks

Number	Date	Amount	Vendor	Payee	Voiced
	Reference	Description			Amount
	144756	Blanket PO - EMS supplies Quadmed			1,466.06
20160036	3/31/16	6,337.70	E690	EVOQUA WATER TECHNOLOGIES LLC	
	Reference	Description			Amount
	146788	L.S.25 and Vick Rd. needs Peroxide for Odor contro			6,337.70
20160037	3/31/16	744.30	T6	TRAIL SAW & MOWER SERVICE, INC.	
	Reference	Description			Amount
	147110	(21) BLADES FOR THE 60" KUBOTA ZERO TURN MOWER			744.30
20160037	3/31/16	624.68	T6	TRAIL SAW & MOWER SERVICE, INC.	
	Reference	Description			Amount
	144402	MISC KUBOTA & HONDA PARTS FOR MOWERS			624.68
20160037	3/31/16	909.81	T6	TRAIL SAW & MOWER SERVICE, INC.	
	Reference	Description			Amount
	147109	(3) CASES OF 2.5 GALLON MIX FOR 2 CYCLE ENGINES			909.81
20160037	3/31/16	1,105.97	T6	TRAIL SAW & MOWER SERVICE, INC.	
	Reference	Description			Amount
	146952	REPLACE OLD CONCRETE SAW UNIT# 311393			1,105.97
20160038	3/31/16	890.99	G681	GREENLEAF COMPACTION, INC.	
	Reference	Description			Amount
	147051	Blanket PO - Errol Compactor Rental & Prop Tax			890.99
20160039	3/31/16	2,159.42	A35	A.O.K. TIRE MART	
	Reference	Description			Amount
	147124	REPLACE ALL REAR TIRES ON TOWER 1 UNIT# 150904			2,159.42
20160040	3/31/16	394.05	A610	AIR LIQUIDE HEALTHCARE AMERICA	
	Reference	Description			Amount
	144757	Blanket PO - EMS oxygen and cylinder rentals			394.05
20160041	3/31/16	57.80	C445	CAPITAL OFFICE PRODUCTS	
	Reference	Description			Amount
	143971	3161 Office Supplies			57.80
20160041	3/31/16	782.78	C445	CAPITAL OFFICE PRODUCTS	
	Reference	Description			Amount
	147104	Supplies and paper products for 4 stations			782.78
20160041	3/31/16	707.56	C445	CAPITAL OFFICE PRODUCTS	
	Reference	Description			Amount
	146711	Supplies for 4 stations			707.56
20160042	3/31/16	16,000.00	S521	SHELLEY'S SEPTIC TANKS	
	Reference	Description			Amount
	146605	Shelley's sludge hauling on existing contract thru			16,000.00
20160043	3/31/16	1,556.40	F561	FERGUSON ENTERPRISES, INC.	
	Reference	Description			Amount
	146780	Inventory items 3" & 6" Macro couplings			1,556.40
20160043	3/31/16	365.00	F561	FERGUSON ENTERPRISES, INC.	

**CITY OF AOPKA**  
**Check Register**

Check Dates 3/01/16 thru 3/31/16, All Cash Accounts, Including Voided and Reconciled Checks

Number	Date	Amount	Vendor	Payee	Voiced
	Reference	Description			Amount
	146564	8" Flute bebellor assy			365.00
20160043	3/31/16	8,167.00	F561	FERGUSON ENTERPRISES, INC.	
	Reference	Description			Amount
	146719	Kelly Park Rd. Watermain Extension			8,167.00
20160044	3/31/16	132.00	L491	LAKE JEM FARMS INC.	
	Reference	Description			Amount
	146897	2 Pallets of 419 Bermuda 1 Pallet Bahia			132.00
20160045	3/31/16	66,984.74	O604	OCU - SOLID WASTE DIVISION	
	Reference	Description			Amount
	145590	Tipping fees for FY. 2015-2016, Blanket PO.			66,984.74
20160046	3/31/16	570.10	P40	PRIDE ENTERPRISES	
	Reference	Description			Amount
	145879	Commercial Vehicle Daily Inspection Forms			570.10
20160046	3/31/16	106.55	P40	PRIDE ENTERPRISES	
	Reference	Description			Amount
	143980	3161 Printing Services			106.55
20160047	3/31/16	100.00	U669	UNITED SITE SERVICES	
	Reference	Description			Amount
	145639	Community Garden Restroom - Blanket for FY15-16			100.00
20160047	3/31/16	480.00	U669	UNITED SITE SERVICES	
	Reference	Description			Amount
	147108	Blanket PO Portolet Rentals for Food Truck Roundup			480.00
20160048	3/31/16	13,803.00	I37	WASTEQUIP MANUFACTURING COMPANY	
	Reference	Description			Amount
	146236	SANITATION CONTAINERS			13,803.00
20160050	3/31/16	250.00	A1015	ALL GOOD REPORTERS, LLC	
	Reference	Description			Amount
	146796	CART (Communication Access Realtime Translation) s			250.00
20160052	3/31/16	2,179.13	A622	ARAMARK UNIFORM SERVICES, INC.	
	Reference	Description			Amount
	145226	Uniform rentals for 10/01/15 thru 9/30/16			2,179.13
20160053	3/31/16	290.00	A260	AUTOMATIONDIRECT.COM	
	Reference	Description			Amount
	147178	Instrumentation Cable			290.00
20160054	3/31/16	1,012.15	C1127	CANON SOLUTIONS AMERICA, INC	
	Reference	Description			Amount
	146582	Canon ImageProGraf9000 Plotter Maintenance Renewal			1,012.15
20160055	3/31/16	19.80	C445	CAPITAL OFFICE PRODUCTS	
	Reference	Description			Amount
	147112	Legal sized card stock for Engineering (4020)			19.80
20160055	3/31/16	13.98	C445	CAPITAL OFFICE PRODUCTS	

**CITY OF AOPKA**  
**Check Register**

Check Dates 3/01/16 thru 3/31/16, All Cash Accounts, Including Voided and Reconciled Checks

Number	Date	Amount	Vendor	Payee	Voiced
	Reference	Description			Amount
	147113	March 2016 off sup from Cap Off Pro (4020/4021)			13.98
20160056	3/31/16	14,493.85	C750	CHALLENGER TEAMWEAR	
	Reference	Description			Amount
	146040	Soccer Uniforms Spring 2016			14,493.85
20160057	3/31/16	995.46	C956	CPI INTERNATIONAL	
	Reference	Description			Amount
	145502	Colitag Test Kit P/A 100ml Format 100/pk			995.46
20160058	3/31/16	286.96	D38	DIRECTTV	
	Reference	Description			Amount
	144544	Satellite TV services			286.96
20160059	3/31/16	6,870.00	E690	EVOQUA WATER TECHNOLOGIES LLC	
	Reference	Description			Amount
	145519	Odor control recurring L.S.lease-17, 60 & 77			6,870.00
20160059	3/31/16	3,852.00	E690	EVOQUA WATER TECHNOLOGIES LLC	
	Reference	Description			Amount
	147115	L.S.50,51 needs Bioxide for Odor control			3,852.00
20160060	3/31/16	197.51	F3	FISHER SCIENTIFIC	
	Reference	Description			Amount
	144102	Drinking Water Lab Supplies			197.51
20160060	3/31/16	216.50	F3	FISHER SCIENTIFIC	
	Reference	Description			Amount
	144071	Fisher - PPE misc.			216.50
20160060	3/31/16	261.44	F3	FISHER SCIENTIFIC	
	Reference	Description			Amount
	147234	Fisher - Blanket PO for PPE			261.44
20160061	3/31/16	1,395.93	G661	GRAINGER	
	Reference	Description			Amount
	147148	Inventory items that are at reordering point			1,395.93
20160061	3/31/16	306.06	G661	GRAINGER	
	Reference	Description			Amount
	147215	Small hand tools for water maint			306.06
20160062	3/31/16	3,300.00	H227	H D SUPPLY WATER WORKS, LTD.	
	Reference	Description			Amount
	147184	16" Bell joint restraints Kelly Park W/M			3,300.00
20160062	3/31/16	12,783.24	H227	H D SUPPLY WATER WORKS, LTD.	
	Reference	Description			Amount
	146576	Inventory items 2" Omni meters, 6' TNR Wires			12,783.24
20160062	3/31/16	985.88	H227	H D SUPPLY WATER WORKS, LTD.	
	Reference	Description			Amount
	147286	16" Plug , Tee & DI mega lugs for Kelly Park W/M			985.88
20160062	3/31/16	3,379.46	H227	H D SUPPLY WATER WORKS, LTD.	

**CITY OF AOPKA**  
**Check Register**

Check Dates 3/01/16 thru 3/31/16, All Cash Accounts, Including Voided and Reconciled Checks

Number	Date	Amount	Vendor	Payee	Voiced
	Reference	Description			Amount
	147093	Inventory items that are at reordering point			3,379.46
20160062	3/31/16	225.00	H227	H D SUPPLY WATER WORKS, LTD.	
	Reference	Description			Amount
	147197	14" Reuse meter register for Errol pump station			225.00
20160063	3/31/16	1,745.22	L563	LABOR READY SOUTHEAST, INC.	
	Reference	Description			Amount
	147237	Flag people for Kelly Park RWM			1,745.22
20160064	3/31/16	1,901.93	M1050	MCKESSON MEDICAL-SURGICAL INC	
	Reference	Description			Amount
	145620	Health Care Center - Blanket PO - Supplies			1,901.93
20160065	3/31/16	792.00	M814	MICHIGAN ST. PUMP & ELECTRIC MOTOR	
	Reference	Description			Amount
	145278	L.S.46 Sheeler Hills needs repair to a 7.4hp pump			792.00
20160065	3/31/16	1,466.00	M814	MICHIGAN ST. PUMP & ELECTRIC MOTOR	
	Reference	Description			Amount
	144883	L.S. 51 IFAS needs repair to a 30hp pump			1,466.00
20160066	3/31/16	50.71	O576	OFFICE DEPOT, INC.	
	Reference	Description			Amount
	143969	3161 Office Supplies			50.71
20160066	3/31/16	52.03	O94	OFFICE DEPOT	
	Reference	Description			Amount
	147114	March 2016 off sup from Off Depot (4020/4021)			52.03
20160066	3/31/16	7.28	O94	OFFICE DEPOT	
	Reference	Description			Amount
	147217	File Folders - Community Outreach			7.28
20160067	3/31/16	999.00	O650	ORLANDO BUSINESS TELEPHONE SYSTEM	
	Reference	Description			Amount
	147235	Replacement Phones Public Services			999.00
20160067	3/31/16	433.00	O650	ORLANDO BUSINESS TELEPHONE SYSTEM	
	Reference	Description			Amount
	147054	IP Phone for Police			433.00
20160068	3/31/16	143.38	P40	PRIDE ENTERPRISES	
	Reference	Description			Amount
	146919	Business Cards-Mayor Kilsheimer			143.38
20160069	3/31/16	481.63	S136	SAFETY PRODUCTS INC	
	Reference	Description			Amount
	147177	Inventory items that are at reordering point			481.63
20160070	3/31/16	14,580.70	S257	SHI INTERNATIONAL CORP.	
	Reference	Description			Amount
	146091	Risk Management Enterprise for Office 365			14,580.70
20160070	3/31/16	2,267.04	S257	SHI INTERNATIONAL CORP.	

**CITY OF AOPKA**  
**Check Register**

Check Dates 3/01/16 thru 3/31/16, All Cash Accounts, Including Voided and Reconciled Checks

Number	Date	Amount	Vendor	Payee	Voided
	Reference	Description			Amount
	146079	Unitrends Storage Drives			2,267.04
20160071	3/31/16	1,224.57	T348	TPH ACQUISITION LLLP	
	Reference	Description			Amount
	146421	BLANKET PO MISC VEHICLE PARTS FOR WORK ORDER			1,224.57
20160071	3/31/16	320.60	T348	TPH ACQUISITION LLLP	
	Reference	Description			Amount
	146423	BLANKET PO INVENTORY PARTS FOR VEHICLES			320.60
20160072	3/31/16	743.44	T6	TRAIL SAW & MOWER SERVICE, INC.	
	Reference	Description			Amount
	147123	Lawn Equipment for Inmate Crew #3			743.44
20160072	3/31/16	601.74	T6	TRAIL SAW & MOWER SERVICE, INC.	
	Reference	Description			Amount
	146567	MISC MOWER & TRACTOR PARTS ON WORK ORDERS			601.74
20160072	3/31/16	886.51	T6	TRAIL SAW & MOWER SERVICE, INC.	
	Reference	Description			Amount
	147120	Lawn Equipment for Inmate Crew #1			886.51
20160072	3/31/16	815.41	T6	TRAIL SAW & MOWER SERVICE, INC.	
	Reference	Description			Amount
	147121	Lawn Equipment for Inmate Crew #2			815.41
20160073	3/31/16	403.92	T31	TWC DISTRIBUTORS	
	Reference	Description			Amount
	145969	Conservation Program Rain Sensors			403.92
20160074	3/31/16	8,155.00	U669	UNITED SITE SERVICES	
	Reference	Description			Amount
	146518	PortoLets Rentals OFOF			8,155.00
Total Printed			509	Checks	1,853,868.57

**Backup material for agenda item:**

2. Approve the appointment of Roger Simpson to the Planning Commission.





# CITY OF APOPKA CITY COUNCIL

- CONSENT AGENDA
- PUBLIC HEARING
- SPECIAL REPORTS
- OTHER:

MEETING OF: April 20, 2016  
 FROM: Mayor Kilsheimer  
 EXHIBITS: Board Appointment Form, Roger Simpson Resume

**SUBJECT: APPROVE APPOINTMENT OF ROGER SIMPSON TO THE PLANNING COMMISSION**

**REQUEST: APPROVE APPOINTMENT OF ROGER SIMPSON TO THE PLANNING COMMISSION FOR THE TERM ENDING APRIL 15, 2018.**

**SUMMARY:**

Jeremiah Jaspon resigned from the Planning Commission, following his family’s relocation to Orlando. Mayor Kilsheimer has appointed Roger Simpson, an attorney and legal Apopka resident, to fill out the remainder of the three-year term ending April 15, 2018. Pursuant to §11.05.00 B.1., City of Apopka Code of Ordinances, this mayoral appointment requires approval by City Council.

**FUNDING SOURCE:**

N/A

**RECOMMENDATION ACTION:**

Approve appointment of Roger Simpson to Planning Commission for the remainder of the three-year term ending April 15, 2018.

**DISTRIBUTION**

Mayor Kilsheimer	Finance Director	Public Services Director
Commissioners	HR Director	Recreation Director
City Administrator	IT Director	City Clerk
Community Development Director	Police Chief	Fire Chief



CITY OF APOPKA  
BOARD APPOINTMENT INFORMATION FORM

Please type if possible, or print clearly

Date: 4/04/16

Board(s) Desired:

1. Planning Commission
2. \_\_\_\_\_
3. \_\_\_\_\_

Name: Roger Simpson III

Address: (Home) 2256 Home Again Rd

(Business) 925 B Peachtree St NE # 710, Atlanta, GA

30309

Phone: (Home) [Redacted] (Business) [Redacted]

Employer: Mobilitie, LLC

Position: Director, Government Relations

Education:

High School	<u>Tampa Bay Technical</u>	Years Comp.	<u>3</u>	Degree	<u>Diploma</u>
College	<u>University of Georgia</u>		<u>3</u>		<u>Juris Doctor</u>

1. Are you a City of Apopka resident? Yes  No
2. Are you a registered voter? Yes  No
3. Do you own property in Apopka? Yes  No  - not since 2014
4. Are you currently serving on a City Board? Yes  No
5. Have you ever served on a City Board? Yes  No

If yes, when and which Board? \_\_\_\_\_

6. How long have you lived in Central Florida? Years 10

7. References:

Name	Address	Phone No.
<u>William McLeod</u>	[Redacted]	[Redacted]
<u>Ray McLeod</u>	[Redacted]	[Redacted]
<u>Charles Murray</u>	[Redacted]	[Redacted]

(Continued on other

**City of Apopka  
Board Appointment Information Form - Page 2**

Work Experience: *Over the past 18 years, I have worked as a lawyer and project manager in wireless telecommunications. I also worked as an attorney in private practice, here in Apopka.*

Community Involvement: *Coached City league soccer. Coached little league football. Served on the Wolf Lake Elementary PTA. Board member for Apopka Family Learning Center; Board Member for Charel Wright Foundation; Pastor at Faith Fellowship Church.*

Interests/Activities: *Exercise, Kayaking, jogging, reading, spending time with my family.*

Why do you want to serve on this/these Board(s)? *I believe that my experience in law and involvement in the community can contribute positively to the decision making regarding planning proposals and applications.*

A resume or separate sheet with additional information may be included.

I understand the responsibilities associated with being a Board member, and I have adequate time to serve on the above Board(s).

*R. M. Simpson III*  
Signature

If you have questions, please call the Community Development Department at (407) 703-1712.

Return this form to: Mayor's Office  
120 E. Main Street  
P. O. Box 1229  
Apopka, Florida 32704-1229

\*\*\*\*\*NOMINATING BOARD USE ONLY\*\*\*\*\*

AIF Received \_\_\_\_\_

Info to Staff \_\_\_\_\_

AIF Acknowledged \_\_\_\_\_

Mayor's Letter \_\_\_\_\_

Forwarded to Mayor \_\_\_\_\_

Other \_\_\_\_\_

Council Action \_\_\_\_\_

# Roger M. Simpson, III

## PROFILE

Experienced attorney with commercial and residential real estate background, property leasing, landlord/tenant disputes and relevant experience in general legal practice, contract negotiations for business and real property. Adept in wireless contract negotiations and review, zoning/entitlement hearings and approvals; skilled in team building, corporate compliance and spearheading initiatives. Approximately five years experience with one of the world's largest private engineering concerns, Bechtel Corporation and served as outside legal counsel to Clearwire, MetroPCS and LightSquared.

## PROFESSIONAL EXPERIENCE

### **Mobilitie, LLC**

Director, Government Relations – East Region, 2015 – Present

Build relationships with appointed and elected officials to provide education on corporate policies and technology and how that technology can benefit communities. Direct a team of managers, associates and coordinators to accomplish both external and internal advocacy. Train regional staff on company messaging; provide strategy to achieve corporate directives; and work with staff to develop corporate presentation materials and plan strategic objectives. Engage and work with corporate and outside legal counsel to address issues of law and engage and direct lobbyists for networking and governmental influence strategies.

### **Wireless Legal, P. A., Orlando Area, FL**

Attorney, 2006 – 2015

Legal practice providing services to clients for licensing, leases, amendments and various forms of contract negotiations and documents. We also provide representation and counsel to the wireless telecommunications industry on matters ranging from corporate compliance, network deployments, property management, real property law and real estate contract negotiations and strategy.

- [2015] Outside legal counsel to Lightsquared (“One Dot Six Corp.”) for its nationwide license protection deployment project. Reviewed agreements submitted by Crown Castle and American Tower for legal and corporate compliance. Prepared and signed legal abstracts for corporate execution. Completed over 175 site license reviews/approval in 6 months, in time and under budget.
- [2011 - 2012] Outside legal counsel for Florida and Texas markets to LightSquared for negotiation and review of Master License Agreements for wireless network deployment on assets of regional or state-wide utility providers.
- [2009 – 2011] Outside legal counsel to Clearwire for its network deployment in the Florida, Colorado and Maryland markets. Reviewed and signed-off for corporate approval approx. 700+ wireless facility agreements. In addition, reviewed and approved title reports, NEPA reports and Phase 1 assessments for corporate compliance.
- [2006 – 2008] Outside legal services contractor to MetroPCS for its network deployment markets of Southern California, New York and Philadelphia. Reviewed, assisted in negotiations, completed lease summaries and signed-off approval for corporate signature for 800+ wireless network license and lease agreements.
- Provided guidance to project managers, real estate professionals and engineers to negotiate accurate leasing contracts with entities ranging from churches to shopping complexes, condominiums, high rise buildings and regional utilities.
- Reviewed title reports and associated title documents, and mitigated/resolved real property issues related to title, zoning, permitting and lease compliance.

**Smartlink, Lake Mary, FL [AT&T Turfing] 2014**

**Ericsson, Lake Mary, FL [Sprint Network Vision] 2013**

**West Tower Communications, South Carolina [AT&T Turfing] 2012**

Site Acquisition Manager - 2014

Provided zoning and leasing for new site development in AT&T North Florida market; day-to-day management, planning and leadership for AT&T LTE, ETCS and UMTS deployments in the South Carolina market and Sprint's Network Vision LTE, Fiber and Microwave deployments in Central Florida

- Managed contractors by setting project goals, schedule and submittal of deliverables
- Researched zoning codes and submitted applications, represented AT&T in zoning hearings, filed building permits; negotiated leases and completed leases for new wireless sites
- Verified fully executed leases with appropriate exhibits, final zoning approval documentation and drawings, building permits, and stamped construction drawing to ensure accuracy
- Negotiated and resolved gating issues impeding project milestones
- Interfaced with customer's outside legal counsel and regional management to plan and resolve difficult siting issues
- Supervised the project tracking, document uploads and project scope/drivers.
- Managed A&E deliverables and bidding for entitlement documents and structural analyses

### **MetroPCS, Irvine, CA**

Site Acquisition Manager, 2006

- Provided the day-to-day planning, leadership and project management for a 200+ wireless telecommunications site acquisition project in Orange County, CA. Interfaced and planned with the following departments for a successful project: Construction, RF Engineering, Finance, Legal, Utilities and Transport and Human Resources.
- Hired and supervised project team and contracted with firms to provide site acquisition, permit expediting, public relations and A&E services. Established initial relationships with developers, and city and county government officials to introduce the project, request fast-tracking assistance and resolve any planning or permit approval issues.
- Established and maintained the project schedule, provided training for new service providers and approved invoices for services.

### **Bechtel Telecommunications, Orlando, FL / Cerritos, CA**

Lead Acquisition Coordinator/Manager, 2001 – 2006

- Developed land use and zoning guidelines for land use professionals, attorneys and real estate agents for an 800-plus wireless communications sites acquisitions project for AT & T Wireless / Cingular.
- Provided the day-to-day management of numerous land use professionals to ensure corporate compliance and the interpretation and resolution of municipal ordinances affecting site development.
- Principal lead for landlord disputes and meetings with municipalities to introduce the project and resolve questions and concerns regarding wireless site development, FCC rules regarding wireless site development, site design issues, and lease management concerns. Established pre-deployment meeting reviews and fast-tracking assistance with the City of Thousand Oaks, the City of Los Angeles, the County of Los Angeles, Orange County, the City of San Diego and other municipalities in Southern California.
- Regional lead for leasing package accuracy and completion, and landlord dispute resolution. Represented Bechtel Telecommunications as a member of the Florida Telecommunications Industry Association by attending meetings with government and industry officials regarding Taxes, Network Deployment and Telecom Law in Florida.
- Negotiated regional master lease/license agreements, provided leasing practices training for employees and contractors and managed the quality assurance process for all project real estate documents for client approval.

### **1999 – 2001 Network Deployment Real Estate**

- Prepared, submitted and presented to local municipalities land use applications for wireless telecommunications.
- Represented wireless telecommunications carriers in land use hearings for various use applications.
- Developed training manual for zoning and land use staff.
- Identified potential site development locations and negotiated leasing and licensing agreements to secure the location for clients' base stations.
- Provided the day-to-day supervision/team lead for a team of leasing and land use professions.
  - Firms Served: Berliner Communications, Wireless Facilities, Inc., Crown Castle International (TEA Group)

### **Nextel South Communications, Maitland, FL**

Associate Attorney, 1998 – 1999

- Negotiated and drafted real estate documents including leases, subleases, licenses, amendments and non-disturbance agreements for the installation of wireless communications base stations throughout Florida.
- Worked with both in-house and outside legal teams to accomplish corporate leasing goals.

## **EDUCATION**

**Liberty University, Lynchburg, VA**  
**Masters in Arts – Theological Studies, March 2013**

**University of Georgia School of Law, Athens, GA**  
**Juris Doctor, December 1997**

- Intellectual Property Club, Moot Court Competition
- Honor Court Justice, Tuition Equalization Scholarship
- Computer Law Summer Externship with UGA Office of Technology Management
- Employed with University Housing and Westlaw (representative and trainer)

**The Florida State University, Tallahassee, FL**  
**Bachelor of Science, Management Information Systems, August 1995**

- Sigma Iota Epsilon – Management Honors Fraternity, DuBois Honor Society
- State of Florida Merit Scholar
- Pre-law Society, MIS Society, Center for Civic Education and Service (employee)

## **PROFESSIONAL AFFILIATIONS**

- Member, The Florida Bar, 2001
- Economic Development Committee Member, Apopka Chamber of Commerce, 2010
- Member, Orange County Bar Association, 2010
- Apopka Leadership Class III, 2011
- Board Member, Apopka Family Learning Center, 2014 - 2015

## **COMMUNITY SERVICE**

- Board Member – Chanel Wright Foundation
- Chair, PTA Legislative Committee – Wolf Lake Elementary
- Football Coach – Central Florida Youth Football League / Pop Warner
- Volunteer Teacher – Harbor House of Central Florida (Domestic Violence Shelter)
- Soccer Coach – City of Apopka Recreation Dept.
- Den Leader – Central Florida Boy Scouts
- Jr. Magic Basketball Coach

## **WEB PRESENCE**

- [www.wirelesslegal.com](http://www.wirelesslegal.com)

**Backup material for agenda item:**

3. Approve the purchase of body worn cameras.



# CITY OF APOPKA CITY COUNCIL

- CONSENT AGENDA
- PUBLIC HEARING
- SPECIAL REPORTS
- OTHER:

MEETING OF: April 20, 2016  
 FROM: Police Department  
 EXHIBITS:

**SUBJECT: EXPAND POLICE BODY WORN CAMERA PROGRAM**

**REQUEST: AUTHORIZE THE POLICE CHIEF TO REPLACE THE CURRENT BODY WORN CAMERAS WITH UPDATED MODELS AND EXPAND THE BODY WORN CAMERA PROGRAM.**

**SUMMARY:**

The Apopka Police Department was awarded a Department of Justice grant in September 2015 to expand the department’s body worn camera program. City Council at the October 7, 2015 meeting authorized the acceptance of the grant and use of grant funding and city cash matches. Apopka was awarded \$43,000 which was matched with \$43,000 from the City. This grant was to provide the department with a camera for every sworn member of the agency and install the associated back-end storage equipment for the resulting video. Over the first and second quarters of this fiscal year, the police department has worked closely with the I.T. department to evaluate the current body worn camera system and media storage environment. The department currently has 42 body worn cameras, purchased in 2015, from Reveal Media USA, Inc. and is pleased with the vendor. As part of the BWC program expansion, all legacy cameras will be replaced with current models and the existing digital storage environment will be modified and expanded to better store, track, retrieve, and share the captured media.

To Replace the cameras and docking stations currently owned as well as expand the number of cameras to 102 units will cost \$66,748.00. The purchase of an HP DL380 Gen9 Server with an HP Multi Disk Storage Array (96TB Raw with 80TB Usable space) along with a long term backup solution for archiving/retention purposes from GovConnection will cost \$31,855.26. This camera and storage solution expenditure is \$98,603.26. Grant (\$43,000.00), matching (\$43,000.00), and police discretionary funds (\$20,000.00) are the source funding for this expenditure.

Additionally, the department will allocate up to \$20,000 from police discretionary funds to purchase additional hardware and along with a video editing and redaction system from MotionDSP, Inc, in order for video to be exported and imported from the digital management system to comply with public records laws.

**FUNDING SOURCE:**

Grant funding; Approved Matching Grant Funds; Police Discretionary Funds.

**RECOMMENDATION ACTION:**

Approve the purchase and allow the department to move forward with this program.

**DISTRIBUTION**

- |                                |                  |                          |
|--------------------------------|------------------|--------------------------|
| Mayor Kilsheimer               | Finance Director | Public Services Director |
| Commissioners                  | HR Director      | Recreation Director      |
| City Administrator             | IT Director      | City Clerk               |
| Community Development Director | Police Chief     | Fire Chief               |



**Backup material for agenda item:**

4. Authorize a scoreboard & windscreen sponsorship from Modern Orthodontics.



# CITY OF APOPKA CITY COUNCIL

- CONSENT AGENDA
- PUBLIC HEARING
- SPECIAL REPORTS
- OTHER:

MEETING OF: April 20, 2016  
 FROM: Recreation  
 EXHIBITS: Agreement  
 Windscreen Sample  
 Scoreboard Specifications

**SUBJECT: SCOREBOARD & WINDSCREEN SPONSORSHIP**

**REQUEST: AUTHORIZE A SCOREBOARD & WINDSCREEN SPONSORSHIP FROM MODERN ORTHODONTICS FOR \$11,500**

**SUMMARY:**

Modern Orthodontics would like to sponsor two windscreens on the outfield fence on Fields I & J (Little League Fields) and the scoreboard located on the football field at the Northwest Recreation Complex. The windscreens are new fixtures that would be added to the fields at a cost of \$3,200 for each. The cost of the scoreboard is approximately \$10,000 and needs to be replaced by the end of July 2016 in preparation for football season (beginning August 2016).

The \$11,500 sponsorship will cover the entire cost of the two windscreens and 51% of the new scoreboard (windscreens \$6,400 and scoreboard \$5,100). In return the Modern Orthodontics logo will be placed on both the windscreens & scoreboard. Staff is currently seeking other sponsorships to cover the remaining cost of \$4,900 for the scoreboard. In the event a sponsorship is not obtained for the amount needed the use of reserves will be necessary and will be requested at a later date.

**FUNDING SOURCE:**

Approval of the sponsorship will fund 100% of the windscreens and 51% of a new scoreboard. A budget amendment will be included in the third quarter to show unanticipated revenue and expense of this project.

**RECOMMENDATION ACTION:**

Authorize a sponsorship from Modern Orthodontics in the amount of \$11,500 for the purchase of a scoreboard & windscreen.

**DISTRIBUTION**

- |                                |                  |                          |
|--------------------------------|------------------|--------------------------|
| Mayor Kilsheimer               | Finance Director | Public Services Director |
| Commissioners                  | HR Director      | Recreation Director      |
| City Administrator             | IT Director      | City Clerk               |
| Community Development Director | Police Chief     | Fire Chief               |

## **SPONSORSHIP AGREEMENT**

This Sponsorship Agreement, made and executed this \_\_\_\_ day of \_\_\_\_\_, 2016, by and between the CITY OF APOPKA, hereinafter called the “City,” and AMW Orthodontics, PA, Florida professional association with its principal address located at 1455 East Highway 50, Clermont, Florida 34711, d/b/a ‘Modern Orthodontics,’ hereinafter called the “Sponsor,” which term shall include their heirs and assigns, executors, and administrators, wherever the context so requires or admits.

In consideration of the mutual covenants and agreements herein contained, it is agreed by and between City and Sponsor as follows:

### **Section 1. Sponsorship Opportunity Description.**

This Sponsorship Agreement shall be subject to the terms, conditions, and responsibilities outlined in the Sponsorship Opportunity Description, attached hereto as Exhibit “A.”

### **Section 2. Term.**

This Sponsorship Agreement shall be effective as of the date duly executed by both parties, and shall be valid until all terms, conditions, and responsibilities outlined in the Sponsorship Opportunity Description are fulfilled, or for a period of 62 months, whichever is shorter.

### **Section 3. Termination.**

This Sponsorship Agreement may be terminated by the City, with cause, upon providing five (5) days written notice to the Sponsor. Termination for cause shall be defined as Sponsor’s failure to meet any of the requirements described in the Sponsorship Opportunity Description, attached hereto. Upon any such termination, the Sponsor waives any claims for damages from such termination, including, but not limited to, loss of anticipated profits or earnings. The Sponsor agrees that if this Sponsorship Agreement is terminated for cause by the City, the City shall not be required to reimburse the Sponsor the sponsorship amount, or any part thereof, that has been paid to the City.

**Section 4. Indemnification**

The Sponsor recognizes that it is an independent contractor and not an agent or servant of the City. In the event a claim or lawsuit is brought against the City, its officers, employees, servants, or agents relating to or arising out of the Sponsor’s actions under this Sponsorship Agreement, the Sponsor hereby agrees to indemnify, save, and hold harmless the City, its officers, employees, servants, or agents and to defend said persons from any such claims, liabilities, causes of action, and judgment of any type whatsoever.

**Section 5. Declaration**

By signing this Sponsorship Agreement, the Sponsor declares that this contribution is made voluntarily, and that no favors, promises, or assurances of any kind whatsoever have been made to the Sponsor, or any related entity, by the City, or any of its officials, employees, or representatives in connection therewith.

**Section 6. Notice Format.**

All notices or other written communications required, contemplated or permitted under this Sponsorship Agreement shall be in writing and shall be hand delivered, telecommunicated, or mailed by registered or certified mail, return receipt requested to the following addresses:

City: Recreation Director  
City of Apopka  
120 E Main Street  
Apopka, FL 32703

Sponsor: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Section 7. Assignability.**

This Sponsorship Agreement may not be assigned without the prior consent of all parties to this Agreement.

**Section 8. Governing Law.**

This Agreement shall be applied and construed in accordance with the Laws of Florida. Venue for any action hereunder shall be in Orange County, Florida. The courts of the State of Florida shall have jurisdiction to hear and decide any and all disputes which arise under this Lease.

**Section 9. Modification.**

This Agreement may not be amended in any manner whatsoever, other than by written instrument signed by all parties hereto.

**Section 10. Severability.**

If any provision hereof is declared invalid or unenforceable, it shall be severed from this Agreement and the remainder of the Agreement shall continue in full force as if executed originally without the invalid portion.

**Section 11. Attorney's Fees.**

It is hereby understood and agreed that in the event any lawsuit is brought to enforce compliance with this Sponsorship Agreement or interpret same, or if any administrative proceeding is brought for the same purposes, the non-prevailing party shall pay to the prevailing party reasonable attorney's fees and costs, including appellate fees and costs.

**Section 12. Entirety of Agreement.**

This Agreement sets forth the entire agreement of the parties; it takes precedence over all prior representations, negotiations and agreements, whether oral or written, which are deemed to have merged into this Agreement and have been extinguished to the extent not set forth specifically herein.

[SIGNATURES ON FOLLOWING PAGE]

**SPONSOR:**

**CITY OF APOPKA:**

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Glenn Irby, City Manager

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

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

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

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

## **EXHIBIT "A"**

### **SPONSORSHIP OPPORTUNITY DESCRIPTION**

1. Scope of Sponsorship Opportunity: Sponsor's Logo will be displayed at the Northwest Recreation Complex as described below.
2. Potential Benefits to the Sponsor: Exposure to target client market.
3. Amount Payable to the City

The Sponsor agrees to pay to the City the amount of \$11,500.00 as the sponsorship amount and as compensation in full for this Sponsorship Opportunity. The full amount must be paid to the City within five (5) calendar days of the execution of this Sponsorship Agreement.

4. Responsibilities of the City:

The City will, within approximately six to eight weeks of receiving Sponsor's logo in the format specified below, place Sponsor's logo on the football field scoreboard, which shall be displayed for a period of a minimum of five (5) years, and the baseball field windscreens of Fields I & J, which shall be displayed for a minimum of two (2) years, at the Northwest Recreation Complex, 3710 Jason Dwelly Parkway, Apopka, FL 32712.

5. Responsibilities of the Sponsor in addition to payment of Sponsorship Amount specified above:

The Sponsor will, upon execution of this document, provide City with Sponsor's logo in \*.jpg or \*.eps file format.



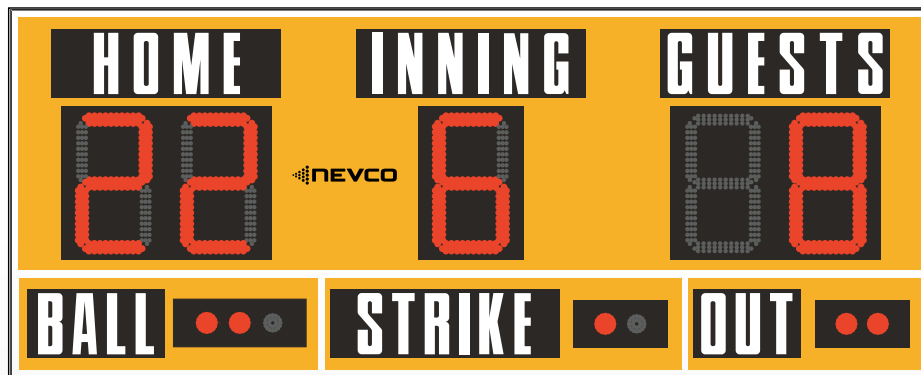




# MODEL 1610



**Size:** 10' x 4' x 8" (3.05 x 1.22 x .20 meters)  
**Approximate hanging weight:** 130 lbs. (60 kg)  
**Digit Size:** 18" **Digit Color:** High Intensity Red or Amber



**Small scoreboard designed for combination Baseball/Softball facilities.**

- Designed to withstand wind load speed zones exceeding 150 mph.
- Operate wired or wireless.
- Large digits easily seen from long distances.
- White outline striping separates features for greatest readability.
- Bright, long lasting, energy efficient LEDs.
- Gasketed digits reduces water intake.
- Flexible mounting. Can mount directly to columns OR on laterals for complex or retro-fit installations.
- Flush sign mounting.

**Combine your scoreboard with a Nevco monochrome or full-color message center to create a complete scoring and display system. Team/Sponsor signs also available.**



BUILD YOUR OWN DISPLAY AND SCORING SYSTEM ONLINE AT:

[WWW.NEVCO.COM](http://WWW.NEVCO.COM)

U.S. & CANADA: 800-851-4040 INTERNATIONAL: 61

FAX: 618-664-0398 E-MAIL: [INFO@NEVCO.COM](mailto:INFO@NEVCO.COM)

# INTEGRATED DISPLAY AND SCORING SOLUTIONS



## Model 1610 (Outdoor) Baseball/Softball Scoreboard

### SCOREBOARD/CONTROL OPERATING FEATURES

MODEL 1610	MPC(W)-4/5/6	MPCW WIRELESS	MPCX WIRELESS Not available with ETNs
<b>TEAM SCORES</b> 18" High Intensity Red or Amber LED Digits	Displays 0-99.	Displays 0-99.	Displays 0-99.
<b>INNING</b> 18" High Intensity Red or Amber LED Digits	Displays 0-9.	Displays 0-9.	Displays 0-9.
<b>INDICATORS</b> 2" diameter High Intensity Red or Amber LED cluster	Three for ball. Two for strike. Two for Out.	Three for ball. Two for strike. Two for Out.	Three for ball. Two for strike. Two for Out.
<b>PITCH COUNT</b>	N/A	Supported. Integrates with PCD display. Controlled by hand-held switches.	Supported. Integrates with PCD display. Requires Pitch Count MPCX control.
<b>PITCH TIMER</b>	N/A	Supported. Integrates with 9520 display. Controlled by hand-held switches.	Supported. Integrates with 9520 display. Requires SCD/DGT MPCX control.

In addition to the standard 15 colors, Nevco can match any PMS color. Please contact your local Display and Scoring Consultant for pricing information.



**AGENCY APPROVAL:** UL/CUL listed, FCC, CE, INDUSTRY CANADA.

**SCOREBOARD:** Size 10'L x 4'H x 8"D (3.05 x 1.22 x .20 meters), constructed of aluminum. Scoreboard has 1" white outline striping. Hanging weight approximately 130 lbs. (60 kg).

**CAPTIONS:** HOME, GUESTS, INNING, BALL, STRIKE, OUT, white letters 8" high.

**LED UNITS:** Seven-bar segmented digits with protective aluminum cover.

**POWER:** 120 VAC, .7 Amps, 50/60 Hz. / 240 VAC, .3 Amps, 50/60 Hz. Requires earth ground.

**BUILT-IN LIGHTNING PROTECTION:** All models feature fiber-optic isolation circuitry providing additional protection against lightning strikes.

**GUARANTEE:** TO VIEW OR RECEIVE THE MOST RECENT COPY OF OUR GUARANTEE, PLEASE VISIT: [WWW.NEVCO.COM/INFO/GUARANTEE.PHP](http://WWW.NEVCO.COM/INFO/GUARANTEE.PHP)  
**U.S. SERVICE: 1-800-851-4040. INTERNATIONAL SERVICE: 1-618-664-0360. CANADA SERVICE: 1-800-461-8550.**



BUILD YOUR OWN DISPLAY AND SCORING SYSTEM ONLINE AT:

[WWW.NEVCO.COM](http://WWW.NEVCO.COM)

U.S. & CANADA: 800-851-4040 INTERNATIONAL: 618-664-0360

FAX: 618-664-0398 E-MAIL: [INFO@NEVCO.COM](mailto:INFO@NEVCO.COM)

**Backup material for agenda item:**

5. Authorize Public Services to reallocate funds in the 2015-2016 approved budget.



# CITY OF APOPKA CITY COUNCIL

- \_\_\_ CONSENT AGENDA
- \_\_\_ PUBLIC HEARING
- \_\_\_ SPECIAL REPORTS
- \_\_\_ OTHER

MEETING OF: April 20, 2016  
 FROM: Public Services  
 EXHIBITS: Transportation Budget  
 Sheets, 2016 Street  
 Resurfacing Priorities,  
 Stormwater Budget Sheets

**SUBJECT: REALLOCATION OF FUNDS IN THE 2015-2016 APPROVED BUDGET**

**REQUEST: PUBLIC SERVICES IS REQUESTING THE REALLOCATION OF FUNDS IN THE 2015-2016 APPROVED BUDGET**

**SUMMARY:**

In reviewing the current 2015-2016 approved budget, Public Services is requesting to reallocate funds to address projects that need immediate attention. Listed below is a chart and overview of the requests being made.

Transportation Impact Fees	Budgeted	Adjustments	Balance
Hawthorne Road	500,000	- 500,000	-
Traffic Signal & Roadway Improvements at Plymouth Sorrento Road/Yothers Rd.	-	+ 500,000	500,000
6 <sup>th</sup> Street	1,000,000	- 500,000	500,000
Traffic Signal at US441 & Bradshaw Rd.	-	+ 400,000	400,000
Specialized Traffic Studies currently being identified to the Professional Services Line.	-	+ 100,000	100,000
Street Improvements: Road Resurfacing	Budgeted	Adjustments	Balance
Parking Lot Repaving	150,000	- 130,000	20,000
Resurfacing	100,000	+ 130,000	230,000
Stormwater	Budgeted	Adjustments	Balance
Infrastructure	400,000	- 50,000	350,000
Equipment & Machinery	-	+ 50,000	50,000
Total	2,150,000	0	2,150,000

1. Transportation Impact Fees: In the current budget, \$2,550,000 is planned for infrastructure for 6<sup>th</sup> Street, Hawthorne Road, Old Dixie Highway and new sidewalks. Public Services is requesting:
  - \$500,000 from Hawthorne Road to be allocated to fund the Plymouth Sorrento Road/Yothers Road traffic signal and roadway improvements.
  - \$1,000,000 for 6<sup>th</sup> Street be reduced to \$500,000. That \$400,000 be reallocated to fund the traffic signal at US441 and Bradshaw Road and the remaining \$100,000 be moved from the Infrastructure line to the Professional Services line in order to fund specialized traffic studies currently being identified.

2. Street Improvements: In the current budget for Road Resurfacing the budget has identified \$150,000 for parking lot repaving (Police Department, City Hall, Fran Carlton, and the Northwest Recreation Complex Phase 1) and \$100,000 for resurfacing. Public Services is requesting to patch the parking lots and shift approximately \$130,000 to Road Resurfacing in order to fund the majority of the top five projects on the 2016 Resurfacing priorities list.
3. 2016 Streets Resurfacing priority list: Approval of the list and current priorities.
4. Stormwater Fund: In the current budget for Infrastructure the budget is \$400,000. Due to the increased maintenance responsibilities and additional NPDES permit requirements, a vector trailer is needed. Staff requests to reallocate \$50,000 to line item 6400 for the purchase of the required vector trailer. This would reduce line item 6300 to \$350,000.

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**FUNDING SOURCE:**

Reallocation of current funds only

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**RECOMMENDATION ACTION:**

Approval of the reallocation of funds in the 2015-2016 budget and the 2016 Resurfacing Priorities.

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**DISTRIBUTION**

Mayor Kilsheimer	Finance Director	Public Services Director
Commissioners	HR Director	Recreation Director
City Administrator	IT Director	City Clerk
Community Development Director	Police Chief	Fire Chief

**CITY OF APOPKA  
TRANSPORTATION IMPACT FEES**

**STAFFING ANALYSIS**

**NUMBER OF FULL-TIME/PART-TIME PERSONNEL**

<b>POSITION</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>
NONP	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>

**CAPITAL OUTLAY**

**6300 - Infrastructure**

6th Street reconstruction and downtown related street improvements, Central Ave to US441	\$ 1,000,000
Hawthorne Rd Drainage and pavement improvements	500,000
New Sidewalks	50,000
Old Dixie (Hawthorne Ave to Schopke Lester Rd) (turn lane, curb, gutter)	<u>1,000,000</u>
	<b>\$ 2,550,000</b>

Total Capital Outlay \$ 2,550,000

CITY OF APOKA  
TRANSPORTATION IMPACT FEES

LINE ITEM DETAIL

	<u>2014</u>	<u>2015</u>	<u>2015</u>	<u>2016</u>
	ACTUAL	BUDGET	ESTIMATE	PROPOSED
<b>SUPPLIES AND OTHER SERVICES:</b>				
3100 PROFESSIONAL SERVICES	500	99,500	-	-
3112 TRAFFIC COUNTS	27,638	30,000	30,000	30,000
3200 AUDIT SERVICES	1,800	1,875	1,800	-
<b>TOTAL</b>	<b>29,938</b>	<b>131,375</b>	<b>31,800</b>	<b>30,000</b>
<b>CAPITAL OUTLAY:</b>	<b>2,931,041</b>	<b>1,250,000</b>	<b>500,000</b>	<b>2,550,000</b>
<b>TRANSFERS:</b>	<b>105,879</b>	<b>55,000</b>	<b>55,000</b>	<b>58,300</b>
<b>TOTAL COST</b>	<b>3,066,858</b>	<b>1,436,375</b>	<b>586,800</b>	<b>2,638,300</b>

CITY OF APOPKA  
 OPERATING BUDGET JUSTIFICATION FORM  
 FISCAL YEAR 2015-16

<b>Fund</b>	<u>Street Improvement Fund 101</u>
<b>Department</b>	<u>Six Cent Gas Tax 3412-541</u>
<b>Line Item #</b>	<u>4607</u>
<b>Line Item Description</b>	<u>Road Resurfacing</u>

Item	Description	Justification	Estimated Cost
1	Road Resurfacing through out city	General Maintenance, repaving of city roads that are in poor condition	600,000
2	Repaving of the following parking lots:		
	A. Police Department		35,000
	B. City Hall		40,000
	C. Fran Carlton		35,000
	D. Northwest Complex Ph. I	40,000	
		City Administrator's Adjustment	(\$500,000)

Total Cost	\$ 250,000
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**2016 STREETS RESURFACING PRIORITIES**

PRIORITY/ BID ITEM	DESCRIPTION	QTY	LENGTH	WIDTH	UNIT MEASURE	COST PER UNIT	TOTAL COST	SY	Estimate Resurfacing	Estimate Mill / Resurf	Running total Resurfacing only	Running total Mill / Resurf	Recommendation	
TIF	<b>6th St</b> Christiana to Hwy 441		915	22	TN			2,236	\$14,534.00	\$20,124.00	**			
TIF	<b>Martin St</b> Wells St to Main St		2,275	24	TN			6,067	\$39,435.50	\$54,603.00	***			
TIF	<b>Marden Rd</b> Hilltop Reserve to Keene Rd		4,492	24	TN			11,978	\$77,857.00	\$107,802.00	***			
1	<b>Hawthorne Ave</b> 7th St to Michael Gladden Blvd		1,840	25	TN			5,111	\$33,221.50	\$45,999.00		\$33,221.50	\$45,999.00	\$33,221.50
	Michael Gladden Blvd to 10th St		388	25	TN			1,078	\$7,007.00	\$9,702.00		\$40,228.50	\$55,701.00	\$40,228.50
2	<b>Votaw Rd</b> Park Ave to Christiana Ave		4,244	23	TN			10,845	\$70,492.50	\$97,605.00		\$110,721.00	\$153,306.00	\$137,833.50
3	<b>Wekiva Oaks Drive</b> Intersection Piedmont Wekiva Road - 200 ft		ENTRY ROAD		TN			721	\$4,686.50	\$6,489.00		\$115,407.50	\$159,795.00	\$144,322.50
4a	<b>Spring Harbor Subdivision</b> Ashley Blvd		ENTRY ROAD		TN			749	\$4,868.50	\$6,741.00		\$120,276.00	\$166,536.00	\$151,063.50
	Justin Drive		1,018	24	TN			2,756	\$17,914.00	\$24,804.00		\$138,190.00	\$191,340.00	\$175,867.50
4b	Jett Loop		989	24	TN			2,679	\$17,413.50	\$24,111.00		\$155,603.50	\$215,451.00	\$199,978.50
4c	Honey Road		1,162	24	TN			3,617	\$23,510.50	\$32,553.00		\$179,114.00	\$248,004.00	
4d	Frisco Court		527	24	TN			1,889	\$12,278.50	\$17,001.00		\$191,392.50	\$265,005.00	
5	<b>Lake Ave</b> Grossenbacher to Martin		634	24	TN			1,691	\$10,991.50	\$15,219.00		\$190,105.50	\$263,223.00	\$210,970.00
	Martin St to Summit Dr		1,332	20	TN			2,960	\$19,240.00	\$26,640.00		\$209,345.50	\$289,863.00	\$230,210.00
6a	<b>Welch Rd</b> Vick Ave to Rocky Point Rd		1,000	35	TN			4,068	\$26,442.00	\$36,612.00		\$217,834.50	\$301,617.00	
6b	<b>Vick Rd</b> Lester Rd to Welch Rd		2,660	35	TN			10,344	\$67,236.00	\$93,096.00		\$285,070.50	\$394,713.00	
7	<b>Cleveland St</b> Old Apopka Hwy to Sheeler Ave		4,240	20	TN			11,493	\$74,704.50	\$103,437.00		\$359,775.00	\$498,150.00	
8a	<b>Orange St</b> Lake Ave to Hawthorne St		1,257	20	TN			2,793	\$18,154.50	\$25,137.00		\$303,225.00	\$419,850.00	
8b	<b>Myrtle St</b> Central Ave to Park Ave		659	21	TN			1,538	\$9,997.00	\$13,842.00		\$313,222.00	\$433,692.00	

**2016 STREETS RESURFACING PRIORITIES**

PRIORITY/ BID ITEM	DESCRIPTION	QTY	LENGTH	WIDTH	UNIT MEASURE	COST PER UNIT	TOTAL COST	SY	Estimate Resurfacing	Estimate Mill / Resurf
9a	<b>Grossenbacher Dr</b> Park Ave to Wells St		1,278	25	TN			3,550	\$23,075.00	\$31,950.00
9b	<b>Wells St / Grossenbacher Dr</b> Intsection 100' Each Direction		100 EW	22	TN			1,501	\$9,756.50	\$13,509.00
10	<b>Summit St</b> Lake Ave to Park Ave		1,208	22	TN			2,953	\$19,194.50	\$26,577.00
11a	<b>Marvin Zanders</b> 7th St to Michael Gladden Blvd		539	25	TN			1,497	\$9,730.50	\$13,473.00
	Michael Gladden Blvd to 10th St		422	23	TN			9,706	\$63,089.00	\$87,354.00
11b	<b>8th St</b> Central Ave to Park Ave		654	24	TN			1,744	\$11,336.00	\$15,696.00
12	<b>E 1st Ave</b> Park Ave to Edgewood Dr		1,710	24	TN			4,560	\$29,640.00	\$41,040.00
13	<b>2nd Street</b> Hwy 441 to Hawthorne St		434	24	TN			1,158	\$7,527.00	\$10,422.00
14	<b>10th St</b> Tilden Ave to Christiana Ave		622	22	TN			1,520	\$9,880.00	\$13,680.00
15	<b>Yothers Rd</b> Plymouth Sorrento Rd to US 441		8,279	26	TN			23,917	\$155,460.50	\$215,253.00
16	<b>Piedmont Lakes Blvd</b> Lake Blue Cir to Hyacinth Cove		3,330	36	TN			13,320	\$86,580.00	\$119,880.00
17	<b>Sandpiper Road</b> Park Avenue to Ustler Road		2,650	26	TN			7,656	\$49,764.00	\$68,904.00

Running total Resurfacing only	Running total Mill / Resurf	Recommendation
\$336,297.00	\$465,642.00	
\$346,053.50	\$479,151.00	
\$365,248.00	\$505,728.00	
\$374,978.50	\$519,201.00	
\$438,067.50	\$606,555.00	
\$449,403.50	\$622,251.00	
\$479,043.50	\$663,291.00	
\$486,570.50	\$673,713.00	
\$496,450.50	\$687,393.00	
\$651,911.00	\$902,646.00	
\$738,491.00	\$1,022,526.00	
\$788,255.00	\$1,091,430.00	

NOTE: Estimate \$6.50 for resurfacing and \$9.00 for milling and resurfacing

157,695

TIF - Transportation Impact Fee Fund

\*\* Reconstruction / construction using impact fee funds, programmed in current budget.

\*\*\* Reconstruction / construction using impact fee funds, to be programmed in future budget (CIP).

**CITY OF APOPKA  
STORMWATER FUND**

**LINE ITEM DETAIL**

	2014	2015	2015	2016
	ACTUAL	BUDGET	ESTIMATE	PROPOSED
<b>SUPPLIES AND OTHER SERVICES:</b>				
3100	PROFESSIONAL SERVICES	6,895	-	-
3200	AUDIT SERVICES	1,025	1,065	1,065
3400	OTHER CONTRACTUAL SERVICES	57,624	58,000	58,000
4000	TRAVEL & PER DIEM	-	1,800	-
4100	COMMUNICATIONS	477	480	480
4500	LIABILITY & CASUALTY INSURANCE	21,070	21,070	21,070
4600	REPAIR AND MAINTENANCE	-	-	-
4650	VEHICLE MAINTENANCE	-	1,500	1,500
4900	OTHER CHARGES	12,780	16,000	10,774
5200	OPERATING SUPPLIES	872	6,720	6,720
5250	FUEL & GASOLINE	-	5,250	5,250
5400	BOOKS,PUBS, SUBS & MEMBERSHIPS	-	1,500	1,500
<b>TOTAL</b>	<b>100,743</b>	<b>113,385</b>	<b>106,359</b>	<b>17,500</b>
<b>CAPITAL OUTLAY:</b>				
6100	LAND ACQUISITION	-	-	-
6300	IMPROVEMENTS	758,385	350,000	400,000
6400	EQUIPMENT	243,551	-	-
<b>TOTAL</b>	<b>1,001,936</b>	<b>350,000</b>	<b>-</b>	<b>400,000</b>
<b>TRANSFERS OUT:</b>				
9300	TRANSFER TO GENERAL FUND	24,000	24,000	24,000
9300	TRANSFER TO STREET IMPROVEMENT FUND	116,150	123,120	123,120
<b>TOTAL</b>	<b>140,150</b>	<b>147,120</b>	<b>123,120</b>	<b>169,000</b>
<b>TOTAL COST</b>	<b>1,242,829</b>	<b>610,505</b>	<b>229,479</b>	<b>586,500</b>

**CAPITAL OUTLAY**

6300 - Improvements:		
City Wide Drainage Improvements		\$ 400,000
	Total Improvements	\$ 400,000
6400 - Equipment:		
		\$ -
	Total Equipment	\$ -
<b>Total Capital Outlay</b>		<b>\$ 400,000</b>

CITY OF APOPKA  
 OPERATING BUDGET JUSTIFICATION FORM  
 FISCAL YEAR 2015-16

Fund  
 Department  
 Line Item #  
 Line Item Description

Stormwater Fund - 120

Stormwater 3151-538

6300

Infrastructure

Item	Description	Justification	Estimated Cost
	Drainage City Wide	City wide project for the improvement of the existing drainage and additional installations of new systems as the City grows	400,000

Total Cost	\$ 400,000
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**Backup material for agenda item:**

6. Award a contract for Domestic Wastewater Residuals Transport to Shelley's Environmental Systems.



# CITY OF APOPKA CITY COUNCIL

- CONSENT AGENDA
- PUBLIC HEARING
- SPECIAL REPORTS
- OTHER:

MEETING OF: April 20, 2016  
 FROM: Public Services  
 EXHIBITS: Solicitation

**SUBJECT: DOMESTIC WASTEWATER RESIDUALS TRANSPORT AND DISPOSAL**

**REQUEST: AWARD THE CONTRACT FOR DOMESTIC WASTEWATER RESIDUALS TRANSPORT AND DISPOSAL TO SHELLEY’S ENVIRONMENTAL SYSTEMS**

**SUMMARY:**

On March 24, 2016, the City received two (2) sealed bids for a service agreement to transport, treat, and dispose of domestic wastewater residuals (sludge) generated by the Water Reclamation Facility. The bid results were as follows:

1. T. Wayne Hill Trucking, Inc.: Cost per year to be \$403,125.00 based on estimated need (\$1,562.50 per load of 25 cubic yards of cake sludge and \$250.00 per 1,000 gallons of liquid sludge).
2. Shelley’s Environmental Systems: Cost per year to be \$238,750.00 based on estimated need (\$950.00 per load of 25 cubic yards of cake sludge and \$25.00 per 1,000 gallons of liquid sludge).

The bid was based on an estimated quantity of 250 loads of cake sludge and 50,000 gallons of liquid sludge. The contractor will be paid based on unit price for actual quantity. The contract term shall be for one (1) year with the possibility of two (2) additional one-year extensions.

**FUNDING SOURCE:**

Sewer Operating Fund included in FY 15/16.

**RECOMMENDATION ACTION:**

Award a contract to Shelley’s Environmental Systems for the terms stated above.

**DISTRIBUTION**

Mayor Kilsheimer	Finance Director	Public Services Director
Commissioners	HR Director	Recreation Director
City Administrator	IT Director	City Clerk
Community Development Director	Police Chief	Fire Chief

BID NO. 2016-05  
INVITATION TO BID

Sealed bids will be received by the City of Apopka until 10:00 a.m. E.S.T. on Thursday, March 24, 2016 at the Apopka City Clerk's office, 120 E. Main Street, Apopka, Florida 32703 for

APOPKA WATER RECLAMATION FACILITY  
DOMESTIC WASTEWATER RESIDUALS  
TRANSPORT AND DISPOSAL

and publicly opened and read aloud at 10:15 a.m. in the City Council Chambers. The project consists of furnishing all transportation, materials, equipment and labor, specialized waste handling equipment and land application of stabilized wastewater residuals to a dedicated segregated site.

A non-mandatory pre-bid meeting is scheduled for Wednesday, March 9, 2016, at 10:00 a.m. in the Public Services Conference Room located at 748 E. Cleveland St., Apopka, Florida. Bidders are encouraged to obtain and review the contract documents and special conditions prior to the pre-bid meeting so that questions may be presented at that time.

Specifications are available electronically at no charge via email link. Please contact the Public Services office at (407) 703-1731 to obtain the email link address.

In accordance with the Americans with Disabilities Act (ADA), persons with disabilities needing assistance to participate in any of these proceedings should contact the City Clerk's Office at 120 East Main Street, Apopka FL 32703, Telephone: 407-703-1704, no less than 48 hours prior to the proceeding.

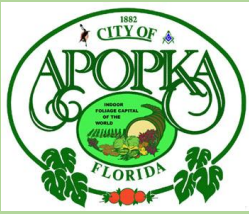
Each bid shall be made out and submitted in duplicate on a form furnished as part of the bid document.

The owner reserves the right to reject any and all bids and to waive any and all irregularity in any bid.

**Backup material for agenda item:**

7. Award contracts to PRMG for a Police, Fire/EMS, and Parks & Recreation Impact Fee Studies.





# CITY OF APOPKA CITY COUNCIL

- CONSENT AGENDA
- PUBLIC HEARING
- SPECIAL REPORTS
- OTHER:

MEETING OF: April 20, 2016  
 FROM: Administration  
 EXHIBITS: PRMG Customer Listing  
 PRMG Proposal – Police Impact Fee Study  
 Amendment to Fire/EMS Impact Fee Study  
 PRMG Proposal – Recreation Impact Fee Study

**SUBJECT: FIRE, EMS, POLICE AND RECREATION IMPACT FEE STUDIES**

**REQUEST: AWARD A CONTRACT IN THE AMOUNT OF \$13,100 TO PUBLIC RESOURCES MANAGEMENT GROUP, INC. TO PERFORM A POLICE SERVICES IMPACT FEE STUDY AND AMEND THE AWARDED CONTRACT FOR THE FIRE/EMS SERVICES IMPACT FEE STUDY TO \$13,100 FROM \$16,600 DUE TO THE COMPANY PERFORMING BOTH STUDIES. FURTHERMORE, APPROVE AN ADDITIONAL CONTRACT WITH THE SAME COMPANY TO PERFORM YET ANOTHER IMPACT FEE STUDY FOR PARKS AND RECREATION FOR \$16,600.**

**SUMMARY:**

On September 2, 2015, Council awarded a contract to Public Resources Management Group (PRMG) in the amount of \$16,600 to perform a Fire and EMS Services Impact Fee study and staff met with the consultant to begin gathering information. It was suggested at that time the City consider implementing a Police Service Impact Fee as well.

On March 02, 2016 staff requested the City Council award Public Resources Management Group, Inc. [PRMG] a contract to perform the Police Services Impact Fee Study at a cost of \$13,100. If the City accepted this proposal, PRMG had agreed to reduce their existing agreement for the performance of the Fire and EMS Services Study to a like amount of \$13,100, which is a reduction of \$3,500. The amended cost would result from the economies of scale associated with reviewing, reporting, and presenting the Police and Fire/EMS Impact Fees concurrently.

During the March 02, 2016 City Council meeting Commissioner Arrowsmith requested that staff identify what other companies were being used for Police Services Impact Fee Studies. Based on this request three alternate companies were contacted that have been utilized in the surrounding area. Listed below are the names of the companies contacted (PRMG included), their past governmental customers, and the verbal estimates given for a City of Apopka Police Service Impact Fee Study.

Company	Previous Governmental Customer(s)	City of Apopka Quote
Public Resources Management Group	Multiple (see attachment)	\$13,100
Duncan Associates	Polk County	\$15,000 - \$20,000
Tischler Bise Inc.	Manatee County	\$20,000
Tindale Oliver & Associates Inc.	City of Lakeland	\$25,000 - \$30,000

Based on the collected information and the cost savings associated, staff would like to request that Public Resources Management Group, Inc. be awarded a contract in the amount of \$13,100 to perform a Police Services Impact Fee Study. In addition to the contract award, staff requests an amendment to discount the Fire/EMS Services Impact Fee Study contract by reducing it \$3,500 (amended total \$13,000). Furthermore, approved a budgeted amount of \$17,000 for FY 16 for a Parks and Recreation Impact Fee Study to be c

as well. Therefore, it is recommended that PRMG cohesively complete the Parks and Recreation Impact Fee Study for the proposed amount to not exceed \$16,600. Written proposals for said studies follow this staff report.

Outside studies conducted by impartial entities are imperative should the City be challenged in court as to the validity and basis of the imposed fee. PRMG is a company proudly owning a long track record of successfully defending challenges related to impact fee implementation in the State of Florida.

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**FUNDING SOURCE:**

General Fund for Police, Fire and EMS studies and the Park and Recreation Impact Fee Fund for this study update.

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**RECOMMENDATION ACTION:**

Award contracts and direct specific modifications to existing contracts of and to Public Resources Management Group, Inc. to perform Police, Fire/EMS Services Impact Fee Studies and also a contract to conduct a Park and Recreation Impact Fee Study update.

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**DISTRIBUTION**

Mayor Kilsheimer	Finance Director	Public Services Director
Commissioners	HR Director	Recreation Director
City Administrator	IT Director	City Clerk
Community Development Director	Police Chief	Fire Chief



## Objectives

- Provide new revenue sources including developing capital-related revenues.
- Ensure growth helps pay its own way.
- Provide for the equitable allocation and recovery of costs.

## Highlights

- Developed municipal impact fees for police, fire, recreation, library and administrative services.
- Developed non-ad valorem assessments for stormwater, fire and highway maintenance/districts.
- Developed municipal rates and fees for stormwater, solid waste permitting, building inspection, and various miscellaneous services.
- Developed parks and recreation rates, planning and zoning and building division fees, and other municipal fees to assure cost recovery.
- Developed internal administration cost allocation methods.



## *Representative Clients have included the following:*

- City of Casselberry, FL
- City of Clermont, FL
- Town of Dundee, FL
- City of Groveland, FL
- City of Haines City, FL
- City of Hallandale Beach, FL
- City of Lake Mary, FL
- City of Leesburg, FL
- City of Melbourne, FL
- City of Miramar, FL
- City of North Port, FL
- City of Panama City Beach, FL
- City of Plant City, FL
- City of Winter Garden, FL
- Collier County, FL
- Palm Coast, FL
- Town of Long Boat Key, FL
- Town of Palm Beach, FL
- City of Sanford, FL
- Village of Tequesta, FL
- Village of Wellington, FL



February 24, 2016

Mr. Glenn Irby  
City Administrator  
City of Apopka  
120 East Main Street  
Apopka, Florida 32703

**Subject: Proposal to Provide a Police Services Impact Fee Study**

Dear Mr. Irby:

Public Resources Management Group, Inc. (PRMG) is pleased to submit this proposal to provide consulting services to the City of Apopka, Florida (the "City" or "Client") associated with the development of a Police Services Impact Fee Study. The purpose of the study is to assist the City development of proposed Police Services Impact Fees to be applied to new development.

#### **PROJECT TEAM AND BILLING RATES**

With respect to the performance of this engagement, Mr. Henry L. Thomas will be the principal in charge, project manager and primary contact with the City. Other staff consultants, analysts and administrative personnel will be utilized during the course of the engagement as needed. The services covered by this Agreement shall be billed based on the direct labor rates set out in Attachment B.

#### **SCOPE OF SERVICES**

The scope of services to be performed by PRMG is included on Attachment A.

#### **COMPENSATION AND BILLING**

Based on the Scope of Services as summarized herein in Attachment A and the direct hourly labor billing rates as identified on Attachment B, we propose to establish a not-to-exceed contract budget to provide consulting services associated with the performance of the Impact Fee Study of \$13,100.

This project budget amount includes the direct cost of personnel anticipated to be assigned to the project as well as any other direct costs such as travel, telephone, and copying, printing and shipping charges. The costs incurred by PRMG for such other direct costs, if any, will be billed to the City based on the Standard Unit Costs or reimbursement schedule as reflected on Attachment B. It is proposed that PRMG will bill monthly for services relative to this engagement based on the hourly amount of time spent by the project team members, the other direct costs incurred and the pass-through of any sub-consulting costs that may be required for the engagement. No additional services above the cost estimate will be performed without the prior written authorization of the City.

Mr. Glenn Irby  
City of Apopka  
February 24, 2016  
Page 2

**TERM OF AGREEMENT**

The terms of this proposed agreement and the associated direct hourly labor billing rates for PRMG personnel shall be in effect and continue through December 31, 2016, or some other contract period as mutually agreed to between the City and PRMG.

**ADDITIONAL TERMS AND CONDITIONS**

Additional standard terms and conditions, that are made part of this proposed agreement, are set forth in Attachment C which is made a part of this proposal.

We appreciate the opportunity to be of service to the City.

Very truly yours,

**Public Resources Management Group, Inc**



Henry L. Thomas  
Vice President

ACCEPTED BY:

**City of Apopka**

\_\_\_\_\_

Name

\_\_\_\_\_

Title

Date

## ATTACHMENT A

### CITY OF APOPKA, FLORIDA

#### POLICE SERVICES IMPACT FEE RATE STUDY

##### SCOPE OF SERVICES

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The scope of service to be performed by Public Resources Management Group, Inc. is related to the preparation of a Police Services Impact Fee Rate Study. The scope of services shall be as follows:

##### **POLICE SERVICES IMPACT FEE STUDY**

The scope of services to be performed by PRMG with respect to the development of police services impact fees will include the following tasks:

1. Data Acquisition and Review – PRMG will prepare a data request and review data compiled and provided by the City in order to develop the police services impact fees. Data that will be requested will include: i) capital improvement projects and master plans, equipment, and facilities required to provide the relevant services including future plans buildings and structures, vehicles and equipping of personnel; ii) population and development statistics; iii) service call information; iv) inventory of existing staffing, facilities and equipment; and v) any other data and information considered necessary to adequately perform the study. PRMG will also collect information regarding impact fees charged by other neighboring jurisdictions;
2. Service Area Forecast – An evaluation of the current service area demographics as well as a forecast of the service area needs will be reviewed based on data made available to PRMG. Specifically, a review of the population forecast by type of dwelling unit (e.g., single-family, multi-family, etc.) and commercial development by land use type, if available (including the square footage of such developments located within the City and planned for the City), will be reviewed. Additionally, a review of the population projections and other service area demographics as contained in such documents as the City's Comprehensive Land Use Plan; Florida Statistical Abstract; other information provided by the Bureau of Economic and Business Research, University of Florida; data made available by the City; and other such information will be relied upon. The purpose of this task is to identify the future service area demands for police services and to estimate the capital requirements (level of service relationship) required for the fair share cost apportionment of such costs to future growth.
3. Cost Allocation – The capital costs associated with meeting the relevant police service requirements for new customers will be allocated among the residential and commercial customer classifications, where appropriate. The allocation of such costs will be based on the service area demographics and development characteristics of the City, and other factors as deemed appropriate by PRMG and the City.

4. Design of Police Impact Fees – PRMG will design impact fees for each specific customer classification related to police services. The impact fees will be based on the allocation of costs among the customer classification, the level of service standards required for the police services and customer class, and the projection of capital needs for the planning period reflected in the report. Additionally, PRMG will identify any external funding or credits which should be recognized in the derivation of the impact fees.
5. Fee Comparisons – A comparison of the existing and proposed fees for residential dwellings and commercial use will be made with similar fees charged by other neighboring public jurisdictions.
6. Preparation of Impact Fee Ordinance – PRMG will assist the City in reviewing and updating the draft police impact fee ordinance. The review of the ordinance may include issues such as the level of rates charged and methodology for application, allowance for alternative methods of calculation, and establishment of a fund for the use of monies as considered necessary for the adoption of the fee.
7. Presentation of Findings – A report will be prepared by PRMG detailing the data relied upon in the development of the proposed police impact fees, the assumptions and analyses performed relative to the derivation of such fees, and our conclusions and recommendations for consideration by the City. It is anticipated that a draft report will be prepared for consideration and review by the City staff prior to presentation to the City Commission for adoption and implementation. This task will also include attendance at a public meeting to present the study results.

## **LIST OF DELIVERABLES**

The deliverables to be provided in this engagement include the following items:

- Data Request
- Police Services Impact Fee Cost Analysis
- Proposed Police Services Impact Fees
- Police Impact Fee Comparisons with Other Jurisdictions
- Briefing Document to Summarize Proposed Police Services Impact Fees
- Police Services Impact Fee Study Report

## **ADDITIONAL SERVICES**

During the course of the study, the Client may request additional services from PRMG. Examples of such additional services would include additional public meetings above and beyond the meetings identified in the scope of services. Other examples of additional services include providing services relating to meeting with third parties regarding the derivation of the rates and fees, providing litigation support services in the event of a challenge of the rates or fees, performance of impact fee negotiations and the preparation of developer agreements for the

payment of such impact fees with potential large developments within the City limits, requests for updated impact fee scenarios after substantial completion of the initial work, and other related issues not contemplated in the above scope of services. No additional services are contemplated at this time and such services will not be conducted until authorized by the Client and as mutually agreed upon between the Client and PRMG.



**ATTACHMENT B**

**CITY OF APOPKA, FLORIDA**

**POLICE SERVICES IMPACT FEE STUDY**

**SCHEDULE OF DIRECT LABOR HOURLY RATES AND STANDARD UNIT COSTS**

**DIRECT LABOR HOURLY RATES**

Project Team Title	Direct Labor Hourly Rates [*]
Principal	\$185.00
Associate	\$150.00
Managing Consultant	\$135.00
Supervising Consultant	\$120.00
Senior Consultant	\$115.00
Rate Consultant	\$105.00
Consultant	\$ 95.00
Senior Rate Analyst	\$ 85.00
Rate Analyst	\$ 75.00
Analyst	\$ 65.00
Assistant Analyst	\$ 55.00
Administrative	\$ 52.00

[\*] Direct labor hourly rates effective twelve months after the date of execution of the Agreement; rates will be adjusted by not more than the net percentage change (but not less than 0%) in the Consumer Price Index – Urban Consumers per annum (rounded to the nearest dollar) or as mutually agreed between parties for invoices rendered after each anniversary date of each year thereafter until project completion or termination of the Agreement between the parties.

**STANDARD COST RATES**

Expense Description	Standard Rates [*]
Mileage Allowance – Personal Car Use Only	\$0.485 per Mile
Reproduction (Black and White) (In-house)	\$0.05 per Page
Reproduction (Color) (In-house)	\$0.25 per Page
Reproduction (Contracted)	Actual Cost
Computer Time	\$0.00 per Hour
Telephone Charges	Actual Cost
Delivery Charges	Actual Cost
Lodging/Other Travel Costs	Actual Cost
Meals	Not-to-exceed per PRMG Employee: \$8.00 – Breakfast \$12.00 – Lunch \$25.00 – Dinner
Subconsultant Services	Actual Cost plus 5.0%
Other Costs for Services Rendered	Actual Cost

[\*] Standard cost rates effective twelve months after the date of execution of the Agreement; where applicable, rates will be adjusted by not more than the net percentage change (but not less than 0%) in the Consumer Price Index – Urban Consumers per annum (rounded to the nearest dollar) or as mutually agreed between parties for invoices rendered after each anniversary date of each year thereafter until project completion or termination of the Agreement between the parties. Any Standard Rate adopted by policy by Client will supersede rates shown above.

**I. SCOPE**

Public Resources Management Group, Inc. (PRMG) agrees to perform the professional consulting services described in the agreement (the "Work") that incorporates these standard terms and conditions. Unless modified in writing by the parties hereto, the duties of PRMG shall not be construed to exceed those services specifically set forth in the agreement. These terms and conditions and the agreement, when executed by the Client, shall constitute a binding agreement on both parties (hereinafter after the "Agreement").

**II. COMPENSATION**

The Client, as defined in the agreement, agrees to pay for the services as billed within thirty (30) days of receiving the invoice. Amounts paid after thirty (30) days may be subject to interest charges, not to exceed a monthly compound rate of one percent (1.0%) applied to the delinquent unpaid balance.

Time-related charges will be made in accordance with the billing rate referenced in the agreement. Other indirect expenses and subcontractor services, if any, will be billed in accordance with the standard unit cost rates as referenced in the agreement or if no reference is provided, at the actual cost as incurred by PRMG.

**III. RESPONSIBILITY**

PRMG is employed to render a professional service only, and any payments made by Client are compensation solely for such services rendered and recommendations made in carrying out the Work. PRMG shall perform analyses, provide opinions, make factual presentations, and provide professional advice and recommendations. PRMG does not expressly warrant or guarantee its services.

**IV. RELIANCE UPON INFORMATION PROVIDED BY OTHERS.**

If PRMG's performance of services hereunder requires PRMG to rely on information provided by other parties (excepting PRMG's subcontractors), PRMG shall not independently verify the validity, completeness or accuracy of such information unless otherwise expressly engaged to do so in writing by Client.

**V. INDEMNIFICATION**

PRMG agrees to indemnify, defend, and hold Client harmless from and against any liability arising out of the negligent errors or negligent omissions of PRMG, its agents, employees, or representatives, in the performance of duties set forth in Article I. Regardless of any other term of this Agreement, in no event shall PRMG be responsible or liable to Client for any incidental, consequential, or other indirect damages.

Client agrees to indemnify, defend, and hold PRMG harmless from and against any liability arising out of the negligent errors or negligent omissions of Client, its agents, employees, or representatives, in the performance of duties set forth in Article I.

**VI. INSURANCE**

PRMG shall maintain during the life of the agreement the following minimum insurance:

1. Commercial general liability insurance, including hired and non-owned automobiles, with the following limits:

Each Occurrence	\$1,000,000
Damage to Rented Premises (Each Occurrence)	\$300,000
Medical Expense (Any one person)	\$5,000
Personal and Advertising Injury	\$1,000,000
General Aggregate	\$2,000,000
Products – Completed/Operation General Aggregate	\$2,000,000
2. Statutory worker's compensation and employers' liability insurance as required by state law.
3. Professional liability insurance at a limit of liability of not less than \$2,000,000 aggregate.

**VII. SUBCONTRACTS**

Unless specifically specified in the Agreement, PRMG shall be entitled, to the extent determined to be appropriate by PRMG, to subcontract any portion of the Work to be performed under this Agreement.

**VIII. ASSIGNMENT**

These terms and conditions and the agreement to which they are attached are binding on the heirs, successors, and assigns of the parties hereto. This

agreement may not be assigned by Client or PRMG without prior, written consent of the other.

**IX. INTEGRATION**

These terms and conditions and the agreement to which they are attached represent the entire understanding of Client and PRMG as to those matters contained herein. No prior oral or written understanding shall be of any force or effect with respect to those matters covered herein. The agreement may not be modified or altered except in writing signed by both parties.

**X. JURISDICTION**

This agreement shall be administered and interpreted under the laws of the State of Florida. Jurisdiction of litigation arising from the agreement shall be in that state.

**XI. SEVERABILITY**

If any part of the Agreement is found unenforceable under applicable laws, such part shall be inoperative, null and void insofar as it is in conflict with said laws, but the remainder of the Agreement shall be in full force and effect.

**XII. FORCE MAJEURE**

PRMG shall not be responsible for delays in performing the scope of services that may result from causes beyond the reasonable control or contemplation of PRMG. PRMG will take reasonable steps to mitigate the impact of any force majeure.

**XIII. NO BENEFIT FOR THIRD PARTIES**

The services to be performed by PRMG hereunder are intended solely for the benefit of Client, and neither right nor benefit is conferred on, nor any contractual relationship intended or established with any person or entity not a party to this Agreement. No such person or entity shall be entitled to rely on PRMG's performance of its services hereunder.

**XIV. WORK PRODUCT**

PRMG and Client recognize that PRMG's Work product submitted in performance of this Agreement

is intended only for the Client's benefit and use. Change, alteration, or reuse on another project by Client shall be at Client's sole risk, and Client shall hold harmless and indemnify PRMG against all losses, damages, costs, and expenses, including attorneys' fees, arising out of or related to any such unauthorized change, alteration, or reuse.

**XV. SUSPENSION OF WORK**

Client may suspend, in writing, all or a portion of the Work under the agreement in the event unforeseen circumstances beyond Client's control make normal progress of the Work impossible. PRMG may request that the Work be suspended by notifying Client, in writing, of circumstances that are interfering with the normal progress of Work. PRMG may suspend Work on the project in the event Client does not pay invoices when due. PRMG shall be compensated for its reasonable expenses resulting from such suspension including mobilization and demobilization. The time for completion of the Work shall be extended by the number of days Work is suspended. In the event that the period of suspension exceeds 90 days, the terms of the agreement are subject to renegotiation and both parties are granted the option to terminate Work on the suspended portion of the project.

**XVI. TERMINATION OF WORK**

Client may terminate all or a portion of the Work covered by the agreement for its convenience. Either party may terminate Work if the other party fails to perform in accordance with the provisions of the agreement. Termination of the agreement is accomplished by 15 days prior written notice from the party initiating termination to the other. Notice of termination shall be delivered by certified mail with receipt for delivery returned to the sender.

This agreement may be terminated by PRMG: a) for cause, if Client breaches this Agreement through no fault of PRMG and Client neither cures such material breach nor makes reasonable progress toward cure within 15 days after PRMG has given written notice of the alleged breach to Client; or b) upon five days' notice if Work under this Agreement has been suspended by either Client or PRMG in the aggregate for more than ninety (90) days.

In the event of termination, PRMG shall perform such additional Work as is necessary for the orderly filing of documents and closing of the project. The

time spent on such additional Work shall not exceed five percent (5%) of the time expended on the terminated portion of the project prior to the effective date of termination. PRMG shall be compensated by the client for Work actually performed prior to the effective date of termination plus the Work required for filing and closing as described in this Article.

maintain, provide access to, and maintain any applicable exemptions to public records, and transfer all such public records to the Client at the conclusion of this Agreement, as provided for in Florida Statutes 119.0701 (2013).

**XVII. ARBITRATION**

All claims, disputes and other matters in question between the parties to this agreement arising out of or relating to this agreement or the breach thereof, which are not disposed by mutual agreement of the parties, shall be decided by arbitration in accordance with the Florida Arbitration Code. No arbitration arising out of or relating to this agreement shall include any person not a party to this agreement except by written consent containing a specific reference to this agreement and signed by the parties hereto and persons to be joined.

This agreement to arbitrate shall be specifically enforceable under prevailing arbitration law.

Notice of demand for arbitration shall be filed in writing with the other parties to this agreement. The demand shall be made within a reasonable time after the claim, dispute, or other matter in question has arisen, but in no event after the date when the institution of legal or equitable proceedings would be barred by the applicable statute of limitations. The award rendered by the arbitrators shall be final and judgment may be entered in accordance with applicable law in any court having jurisdiction.

**XVIII. NOTICES**

All notices required under this Agreement shall be by personal delivery, facsimile or mail to the PRMG Project Manager and to the person signing the Agreement on behalf of the Client, and shall be effective upon delivery to the address stated in the Agreement.

**XIX. PUBLIC RECORDS**

Pursuant to applicable Florida law, PRMG's records associated with this Agreement may be subject to Florida's public records laws, Florida Statutes 119.01, et seq., as amended from time to time. PRMG shall comply with all public records obligations set for in such laws, including those obligations to keep,



**Public Resources Management Group, Inc.**  
*Utility, Rate, Financial and Management Consultants*

February 24, 2016

Mr. Glenn Irby  
City Administrator  
City of Apopka  
120 East Main Street  
Apopka, Florida 32703

**Subject: Amendment to Fire/EMS Services Impact Fee Study**

Dear Mr. Irby:

Based on the City's request to prepare a Police Services Impact Fee Study, Public Resources Management Group, Inc. proposes to amend the existing Fire/EMS Impact Fee Study budget to reflect the economies of scale of associated with reviewing, reporting and presenting the Police and Fire Impact Fees concurrently. Our proposed amendment would reduce the Fire/EMS study budget by \$3,500.00. If this amendment is acceptable please signify your approval below and return a copy of this letter for our files.

Very truly yours,

**Public Resources Management Group, Inc**

Henry L. Thomas  
Vice President

ACCEPTED BY:

**City of Apopka**

\_\_\_\_\_  
Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date



**DRAFT**

April 6, 2016

Mr. Glenn Irby  
City Administrator  
City of Apopka  
120 East Main Street  
Apopka, Florida 32703

**Subject: Proposal to Provide a Parks and Recreation Impact Fee Study**

Dear Mr. Irby:

Public Resources Management Group, Inc. (PRMG) is pleased to submit this proposal to provide consulting services to the City of Apopka, Florida (the "City" or "Client") associated with the development of a Parks and Recreation Impact Fee Study. The purpose of the study is to assist the City development of a proposed Parks and Recreation Impact Fees to be applied to new residential development.

#### **PROJECT TEAM AND BILLING RATES**

With respect to the performance of this engagement, Mr. Henry L. Thomas will be the principal in charge, project manager and primary contact with the City. Other staff consultants, analysts and administrative personnel will be utilized during the course of the engagement as needed. The services covered by this Agreement shall be billed based on the direct labor rates set out in Attachment B.

#### **SCOPE OF SERVICES**

The scope of services to be performed by PRMG is included on Attachment A.

#### **COMPENSATION AND BILLING**

Based on the Scope of Services as summarized herein in Attachment A and the direct hourly labor billing rates as identified on Attachment B, we propose to establish a not-to-exceed contract budget to provide consulting services associated with the performance of the Impact Fee Study of \$16,600.

This project budget amount includes the direct cost of personnel anticipated to be assigned to the project as well as any other direct costs such as travel, telephone, and copying, printing and shipping charges. The costs incurred by PRMG for such other direct costs, if any, will be billed to the City based on the Standard Unit Costs or reimbursement schedule as reflected on Attachment B. It is proposed that PRMG will bill monthly for services relative to this engagement based on the hourly amount of time spent by the project team members, the other direct costs incurred and the pass-through of any sub-consulting costs that may be required for the engagement. No additional services above the cost estimate will be performed without the prior written authorization of the City.

C:\Users\Pugh\AppData\Local\Temp\Parks&Rec ImpactFeeLetterAgree.doc

Mr. Glenn Irby  
City of Apopka  
April 6, 2016  
Page 2

**TERM OF AGREEMENT**

The terms of this proposed agreement and the associated direct hourly labor billing rates for PRMG personnel shall be in effect and continue through December 31, 2016, or some other contract period as mutually agreed to between the City and PRMG.

**ADDITIONAL TERMS AND CONDITIONS**

Additional standard terms and conditions, that are made part of this proposed agreement, are set forth in Attachment C which is made a part of this proposal.

We appreciate the opportunity to be of service to the City.

Very truly yours,

**Public Resources Management Group, Inc**



Henry L. Thomas  
Vice President

ACCEPTED BY:

**City of Apopka**

\_\_\_\_\_  
Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

## ATTACHMENT A

### CITY OF APOPKA, FLORIDA

#### PARKS AND RECREATION IMPACT FEE RATE STUDY

##### SCOPE OF SERVICES

---

The scope of service to be performed by Public Resources Management Group, Inc. is related to the preparation of a Parks and Recreation Impact Fee Rate Study. The scope of services shall be as follows:

##### **PARKS AND RECREATION IMPACT FEE STUDY**

The scope of services to be performed by PRMG with respect to the development of parks and recreation impact fees will include the following tasks:

1. Data Acquisition and Review – PRMG will prepare a written data request outlining the necessary information that will need to be compiled by the City in order to complete the Parks and Recreation Impact Fee Study. The data requested will include, but not be limited to, the following: i) inventory of existing capital equipment and facilities used to provide recreation services, including buildings, structures and equipment; ii) an inventory of recreation park lands and open space currently in service; iii) historical and future population and development information; iv) capital improvement program, if any, for recreation service; v) comprehensive planning document including information regarding current and/or planned level of service standards; and xi) other data and information considered necessary to perform the study. PRMG will also collect information regarding impact fees charged by other neighboring jurisdictions;
2. Service Area Forecast – An evaluation of the current service area demographics as well as a forecast of the service area needs will be reviewed based on data made available to PRMG. This task will include a review of service area demographics including any projections of service area population and new development by type of residential dwelling unit (e.g., single-family, multi-family, etc.) Additionally, a review of the population projections and other service area demographics as contained in such documents as the City's Comprehensive Land Use Plan; Florida Statistical Abstract; other information provided by the Bureau of Economic and Business Research, University of Florida; data made available by the City; and other such information will be relied upon. The purpose of this task is to identify the future service area demands for parks and recreational services and to estimate the capital requirements (level of service relationship) required for the fair share cost apportionment of such costs to future growth.
3. Determination of Level of Service Standards – Based on available information, PRMG will work with City staff to identify the level of service standard (LOS) for recreation service including activity based park lands and resource based park lands as well as facilities required to provide appropriate recreation services (e.g., ball-fields, tennis courts,



community centers, swimming pools, etc.) These standards should be consistent with the City's current and/or desired service levels and the City's Comprehensive Plan, where applicable.

4. Cost Allocation – The capital costs associated with providing recreational services will be identified and allocated between existing and future residences where appropriate to support the overall fee determination. The allocation of such costs will be based on the service area demographics, level of service standards and development characteristics of the City and other factors as deemed appropriate by PRMG and the City.
5. Design of Parks and Recreation Impact Fees – PRMG will design recreation impact fees based on the capital cost allocable to future growth and the level of service standards. Additionally, PRMG will identify any external funding credits that should be recognized in the derivation of the impact fees.
6. Fee Comparisons – A comparison of the proposed recreation service impact fees for residential dwellings will be made with similar fees charged by other neighboring public jurisdictions.
7. Preparation of Impact Fee Ordinance – PRMG will assist the City in reviewing and updating the draft parks and recreation impact fee ordinance. The review of the ordinance may include issues such as the level of rates charged and methodology for application, allowance for alternative methods of calculation, and establishment of a fund for the use of monies as considered necessary for the adoption of the fee.
8. Presentation of Findings – A report will be prepared by PRMG detailing the data relied upon in the development of the proposed parks and recreation impact fees, the assumptions and analyses performed relative to the derivation of such fees, and our conclusions and recommendations for consideration by the City. It is anticipated that a draft report will be prepared for consideration and review by the City staff prior to presentation to the City Commission for adoption and implementation. This task will also include attendance at a public meeting to present the study results.

## **LIST OF DELIVERABLES**

The deliverables to be provided in this engagement include the following items:

- Data Request
- Parks and Recreation Impact Fee Cost Analysis
- Proposed Parks and Recreation Impact Fees
- Parks and Recreation Impact Fee Comparisons with Other Jurisdictions
- Briefing Document to Summarize the Proposed Parks and Recreation Impact Fees
- Parks and Recreation Impact Fee Study Report

## **ADDITIONAL SERVICES**

During the course of the study, the Client may request additional services from PRMG. Examples of such additional services would include additional public meetings above and beyond the meetings identified in the scope of services. Other examples of additional services include providing services relating to meeting with third parties regarding the derivation of the rates and fees, providing litigation support services in the event of a challenge of the rates or fees, performance of impact fee negotiations and the preparation of developer agreements for the payment of such impact fees with potential large developments within the City limits, requests for updated impact fee scenarios after substantial completion of the initial work, and other related issues not contemplated in the above scope of services. No additional services are contemplated at this time and such services will not be conducted until authorized by the Client and as mutually agreed upon between the Client and PRMG.

**ATTACHMENT B**

**CITY OF APOPKA, FLORIDA**

**PARKS AND RECREATION IMPACT FEE STUDY**

**SCHEDULE OF DIRECT LABOR HOURLY RATES AND STANDARD UNIT COSTS**

**DIRECT LABOR HOURLY RATES**

Project Team Title	Direct Labor Hourly Rates [*]
Principal	\$185.00
Associate	\$150.00
Managing Consultant	\$135.00
Supervising Consultant	\$120.00
Senior Consultant	\$115.00
Rate Consultant	\$105.00
Consultant	\$ 95.00
Senior Rate Analyst	\$ 85.00
Rate Analyst	\$ 75.00
Analyst	\$ 65.00
Assistant Analyst	\$ 55.00
Administrative	\$ 52.00

[\*] Direct labor hourly rates effective twelve months after the date of execution of the Agreement; rates will be adjusted by not more than the net percentage change (but not less than 0%) in the Consumer Price Index – Urban Consumers per annum (rounded to the nearest dollar) or as mutually agreed between parties for invoices rendered after each anniversary date of each year thereafter until project completion or termination of the Agreement between the parties.

**STANDARD COST RATES**

Expense Description	Standard Rates [*]
Mileage Allowance – Personal Car Use Only	\$0.485 per Mile
Reproduction (Black and White) (In-house)	\$0.05 per Page
Reproduction (Color) (In-house)	\$0.25 per Page
Reproduction (Contracted)	Actual Cost
Computer Time	\$0.00 per Hour
Telephone Charges	Actual Cost
Delivery Charges	Actual Cost
Lodging/Other Travel Costs	Actual Cost
Meals	Not-to-exceed per PRMG Employee: \$8.00 – Breakfast \$12.00 – Lunch \$25.00 – Dinner
Subconsultant Services	Actual Cost plus 5.0%
Other Costs for Services Rendered	Actual Cost

[\*] Standard cost rates effective twelve months after the date of execution of the Agreement; where applicable, rates will be adjusted by not more than the net percentage change (but not less than 0%) in the Consumer Price Index – Urban Consumers per annum (rounded to the nearest dollar) or as mutually agreed between parties for invoices rendered after each anniversary date of each year thereafter until project completion or termination of the Agreement between the parties. Any Standard Rate adopted by policy by Client will supersede rates shown above.

**I. SCOPE**

Public Resources Management Group, Inc. (PRMG) agrees to perform the professional consulting services described in the agreement (the "Work") that incorporates these standard terms and conditions. Unless modified in writing by the parties hereto, the duties of PRMG shall not be construed to exceed those services specifically set forth in the agreement. These terms and conditions and the agreement, when executed by the Client, shall constitute a binding agreement on both parties (hereinafter after the "Agreement").

**II. COMPENSATION**

The Client, as defined in the agreement, agrees to pay for the services as billed within thirty (30) days of receiving the invoice. Amounts paid after thirty (30) days may be subject to interest charges, not to exceed a monthly compound rate of one percent (1.0%) applied to the delinquent unpaid balance.

Time-related charges will be made in accordance with the billing rate referenced in the agreement. Other indirect expenses and subcontractor services, if any, will be billed in accordance with the standard unit cost rates as referenced in the agreement or if no reference is provided, at the actual cost as incurred by PRMG.

**III. RESPONSIBILITY**

PRMG is employed to render a professional service only, and any payments made by Client are compensation solely for such services rendered and recommendations made in carrying out the Work. PRMG shall perform analyses, provide opinions, make factual presentations, and provide professional advice and recommendations. PRMG does not expressly warrant or guarantee its services.

**IV. RELIANCE UPON INFORMATION PROVIDED BY OTHERS.**

If PRMG's performance of services hereunder requires PRMG to rely on information provided by other parties (excepting PRMG's subcontractors), PRMG shall not independently verify the validity, completeness or accuracy of such information unless otherwise expressly engaged to do so in writing by Client.

**V. INDEMNIFICATION**

PRMG agrees to indemnify, defend, and hold Client harmless from and against any liability arising out of the negligent errors or negligent omissions of PRMG, its agents, employees, or representatives, in the performance of duties set forth in Article I. Regardless of any other term of this Agreement, in no event shall PRMG be responsible or liable to Client for any incidental, consequential, or other indirect damages.

Client agrees to indemnify, defend, and hold PRMG harmless from and against any liability arising out of the negligent errors or negligent omissions of Client, its agents, employees, or representatives, in the performance of duties set forth in Article I.

**VI. INSURANCE**

PRMG shall maintain during the life of the agreement the following minimum insurance:

1. Commercial general liability insurance, including hired and non-owned automobiles, with the following limits:

Each Occurrence	\$1,000,000
Damage to Rented Premises (Each Occurrence)	\$300,000
Medical Expense (Any one person)	\$5,000
Personal and Advertising Injury	\$1,000,000
General Aggregate	\$2,000,000
Products – Completed/Operation General Aggregate	\$2,000,000
2. Statutory worker's compensation and employers' liability insurance as required by state law.
3. Professional liability insurance at a limit of liability of not less than \$2,000,000 aggregate.

**VII. SUBCONTRACTS**

Unless specifically specified in the Agreement, PRMG shall be entitled, to the extent determined to be appropriate by PRMG, to subcontract any portion of the Work to be performed under this Agreement.

**VIII. ASSIGNMENT**

These terms and conditions and the agreement to which they are attached are binding on the heirs, successors, and assigns of the parties hereto. This

agreement may not be assigned by Client or PRMG without prior, written consent of the other.

**IX. INTEGRATION**

These terms and conditions and the agreement to which they are attached represent the entire understanding of Client and PRMG as to those matters contained herein. No prior oral or written understanding shall be of any force or effect with respect to those matters covered herein. The agreement may not be modified or altered except in writing signed by both parties.

**X. JURISDICTION**

This agreement shall be administered and interpreted under the laws of the State of Florida. Jurisdiction of litigation arising from the agreement shall be in that state.

**XI. SEVERABILITY**

If any part of the Agreement is found unenforceable under applicable laws, such part shall be inoperative, null and void insofar as it is in conflict with said laws, but the remainder of the Agreement shall be in full force and effect.

**XII. FORCE MAJEURE**

PRMG shall not be responsible for delays in performing the scope of services that may result from causes beyond the reasonable control or contemplation of PRMG. PRMG will take reasonable steps to mitigate the impact of any force majeure.

**XIII. NO BENEFIT FOR THIRD PARTIES**

The services to be performed by PRMG hereunder are intended solely for the benefit of Client, and neither right nor benefit is conferred on, nor any contractual relationship intended or established with any person or entity not a party to this Agreement. No such person or entity shall be entitled to rely on PRMG's performance of its services hereunder.

**XIV. WORK PRODUCT**

PRMG and Client recognize that PRMG's Work product submitted in performance of this Agreement

is intended only for the Client's benefit and use. Change, alteration, or reuse on another project by Client shall be at Client's sole risk, and Client shall hold harmless and indemnify PRMG against all losses, damages, costs, and expenses, including attorneys' fees, arising out of or related to any such unauthorized change, alteration, or reuse.

**XV. SUSPENSION OF WORK**

Client may suspend, in writing, all or a portion of the Work under the agreement in the event unforeseen circumstances beyond Client's control make normal progress of the Work impossible. PRMG may request that the Work be suspended by notifying Client, in writing, of circumstances that are interfering with the normal progress of Work. PRMG may suspend Work on the project in the event Client does not pay invoices when due. PRMG shall be compensated for its reasonable expenses resulting from such suspension including mobilization and demobilization. The time for completion of the Work shall be extended by the number of days Work is suspended. In the event that the period of suspension exceeds 90 days, the terms of the agreement are subject to renegotiation and both parties are granted the option to terminate Work on the suspended portion of the project.

**XVI. TERMINATION OF WORK**

Client may terminate all or a portion of the Work covered by the agreement for its convenience. Either party may terminate Work if the other party fails to perform in accordance with the provisions of the agreement. Termination of the agreement is accomplished by 15 days prior written notice from the party initiating termination to the other. Notice of termination shall be delivered by certified mail with receipt for delivery returned to the sender.

This agreement may be terminated by PRMG: a) for cause, if Client breaches this Agreement through no fault of PRMG and Client neither cures such material breach nor makes reasonable progress toward cure within 15 days after PRMG has given written notice of the alleged breach to Client; or b) upon five days' notice if Work under this Agreement has been suspended by either Client or PRMG in the aggregate for more than ninety (90) days.

In the event of termination, PRMG shall perform such additional Work as is necessary for the orderly filing of documents and closing of the project. The

time spent on such additional Work shall not exceed five percent (5%) of the time expended on the terminated portion of the project prior to the effective date of termination. PRMG shall be compensated by the client for Work actually performed prior to the effective date of termination plus the Work required for filing and closing as described in this Article.

maintain, provide access to, and maintain any applicable exemptions to public records, and transfer all such public records to the Client at the conclusion of this Agreement, as provided for in Florida Statutes 119.0701 (2013).

#### **XVII. ARBITRATION**

All claims, disputes and other matters in question between the parties to this agreement arising out of or relating to this agreement or the breach thereof, which are not disposed by mutual agreement of the parties, shall be decided by arbitration in accordance with the Florida Arbitration Code. No arbitration arising out of or relating to this agreement shall include any person not a party to this agreement except by written consent containing a specific reference to this agreement and signed by the parties hereto and persons to be joined.

This agreement to arbitrate shall be specifically enforceable under prevailing arbitration law.

Notice of demand for arbitration shall be filed in writing with the other parties to this agreement. The demand shall be made within a reasonable time after the claim, dispute, or other matter in question has arisen, but in no event after the date when the institution of legal or equitable proceedings would be barred by the applicable statute of limitations. The award rendered by the arbitrators shall be final and judgment may be entered in accordance with applicable law in any court having jurisdiction.

#### **XVIII. NOTICES**

All notices required under this Agreement shall be by personal delivery, facsimile or mail to the PRMG Project Manager and to the person signing the Agreement on behalf of the Client, and shall be effective upon delivery to the address stated in the Agreement.

#### **XIX. PUBLIC RECORDS**

Pursuant to applicable Florida law, PRMG's records associated with this Agreement may be subject to Florida's public records laws, Florida Statutes 119.01, et seq., as amended from time to time. PRMG shall comply with all public records obligations set for in such laws, including those obligations to keep,

**Backup material for agenda item:**

8. Authorization to engage in negotiations for a Construction Manager at Risk for the Water Reclamation Facility Expansion.



# CITY OF APOPKA CITY COUNCIL

- \_\_\_ CONSENT AGENDA
- \_\_\_ PUBLIC HEARING
- \_\_\_ SPECIAL REPORTS
- \_\_\_ OTHER:

MEETING OF: April 20, 2016  
 FROM: Public Services  
 EXHIBITS: Ranking

**SUBJECT: CONSTRUCTION MANAGER AT RISK (CMAR) SERVICES.**

**REQUEST: APPROVE THE RANKING OF THE TOP THREE FIRMS AND ALLOW STAFF TO NEGOTIATE A CONTRACT USING THE CCNA PROCESS, WHICH WILL BE BROUGHT BACK BEFORE THE CITY COUNCIL AT A LATER DATE FOR APPROVAL.**

**SUMMARY:**

On April 7, 2016, the City received qualifications, data and expressions of interest for Construction Manager at Risk Services (CMAR) for the water reclamation facility expansion project. CMAR is a project-specific delivery method that is suited for medium to large capital or renovation projects. CMAR project delivery method allows the City to hire a construction manager during the design process to provide constructability input. The CMAR is generally selected on the basis of qualifications, past experience or a best-value basis. During the design phase, the CMAR provides input regarding scheduling, pricing, phasing, and other input that helps the City design a more constructible project. At approximately 60% to 90% design completion, the City and the CMAR negotiate a Guaranteed Maximum Price (GMP) for the construction of the project based on the defined scope and schedule. If this price is acceptable to both parties, they execute a contract for construction services, and the construction manager becomes the general contractor. If prices are not acceptable, the contract is put out for bid when the design is completed. An Evaluation Committee consisting of the City Administrator, the Public Services Director and the Assistant Public Services Director reviewed the qualifications and ranked the firms as follows:

1. Garney Companies Inc./ Garney Construction
2. Wharton-Smith, Inc.
3. Kiewit Infrastructure South Co.

Staff is requesting to be authorized to negotiate a contract with Garney Construction, using the Consultants Competitive Negotiation Act (CCNA). If an agreement cannot be negotiated, staff would then attempt to negotiate with the second firm and so on until an acceptable contract can be reached. The negotiated contract will then be brought back to the City Council at a later date for final approval.

**FUNDING SOURCE:**

N/A

**RECOMMENDATION ACTION:**

Approve the ranking of the three firms and direct staff to negotiate a contract using the CCNA process, which will be brought back before the City Council at a later date for approval.

**DISTRIBUTION**

Mayor Kilsheimer	Finance Director	Public Services Director
Commissioners	HR Director	Recreation Director
City Administrator	IT Director	City Clerk
Community Development Director	Police Chief	Fire Chief



RFQ 2016-08 Request for Qualifications  
for Construction Manager at Risk Services  
Evaluated Scores for Ranking

	Glenn Irby	Kevin Burgess	Jay Davoll	
Kiewit Infrastructure South Co.	98	98	100	296
Wharton-Smith, Inc.	92	103	107	302
Garney Companies Inc./ Garney Construction	101	109	112	322

3rd  
2nd  
1st

**Backup material for agenda item:**

1. Ordinance 2476 – Second Reading – 2016-1 Administrative Rezoning - Quasi-Judicial David Moon



# CITY OF APOPKA CITY COUNCIL

- \_\_\_\_ CONSENT AGENDA
- PUBLIC HEARING
- \_\_\_\_ SPECIAL REPORTS
- OTHER: Ordinance

MEETING OF: April 20, 2016  
 FROM: Community Development  
 EXHIBITS: A-1 Spreadsheet  
 Ordinance No. 2476  
 Zoning Report

**SUBJECT: 2016-1 ADMINISTRATIVE REZONING FROM “COUNTY” A-1 (ZIP) TO “CITY” AG (AGRICULTURE)**

**REQUEST: SECOND READING & ADOPTION OF ORDINANCE NO. 2476 – 2016 ADMINISTRATIVE REZONING; FROM “COUNTY” A-1 (ZIP) TO “CITY” AG (AGRICULTURE).**

**SUMMARY:**

The one parcel, comprising a total of 6.14 +/- acres, has been annexed into the City of Apopka and has been assigned a Future Land Use designation compatible with the proposed AG zoning designation. The subject property currently has a City Future Land Use Designation of Agriculture (AG) and a County zoning category of A-1 assigned to it. A summary of the zoning case is provided in Exhibit “A”.

A brief summary of the administrative rezoning case:

<u>A-1 Properties</u>	
# of Parcels:	1
# of Property Owners:	1
Acreage:	6.14 +/- acres

The attached exhibits provide a summary of the proposed zoning amendment. The property owner has been notified via certified mail that a zoning category comparable to the County designation will be assigned to their property. An individual zoning report has been prepared for the zoning case. The zoning report is provided in Exhibit “B”.

Pursuant to the Interlocal Agreement between the City and Orange County (2004), policy of the City’s Comprehensive Plan (Policy 3.9) and State law (s 163.3202, F.S.), the City is required to assign a zoning category to lands that are annexed into the City’s jurisdiction. To comply with these requirements, city staff is recommending that the City assign a zoning category that is most compatible to the current zoning category that was assigned by Orange County.

**FUNDING SOURCE:** Not Applicable.

**DISTRIBUTION**

- |                                |                  |                          |
|--------------------------------|------------------|--------------------------|
| Mayor Kilsheimer               | Finance Director | Public Services Director |
| Commissioners                  | HR Director      | Recreation Director      |
| City Administrator             | IT Director      | City Clerk               |
| Community Development Director | Police Chief     | Fire Chief               |

**SCHOOL CAPACITY REPORT:** The impact on the number of residential units under the proposed rezoning for the case will be de minimus and, therefore, a school capacity enhancement agreement with OCPS is not necessary.

**ORANGE COUNTY NOTIFICATION:** The JPA requires the City to notify the County 30 days before any public hearing or advisory board. The City notified Orange County on February 5, 2016.

**PUBLIC HEARING SCHEDULE:**

March 8, 2016 – Planning Commission (5:30 pm)  
April 6, 2016 – City Council (1:30 pm) – 1st Reading  
April 20, 2016 – City Council (7:00 pm) – 2<sup>nd</sup> Reading

**DULY ADVERTISED:**

February 19, 2016 – Public Notice and Notification  
April 8, 2016 – Ordinance Heading Ad

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**RECOMMENDATION ACTION:**

The **Development Review Committee** recommends approval of the change in Zoning from “County” A-1 (ZIP) to “City” AG (Agriculture) as set forth in Exhibit “A” for the property described therein.

The **Planning Commission**, at its meeting on March 8, 2016, recommended approval (5-0) of the change in Zoning from “County” A-1 (ZIP) to “City” AG (Agriculture) as set forth in Exhibit “A” for the property described therein.

The **City Council**, at its meeting on April 6, 2016, accepted the First Reading of Ordinance No. 2476 and held it over for Second Reading and Adoption on April 20, 2016.

Adopt Ordinance No. 2476.

**Note: This item is considered Quasi-Judicial. The staff report and its findings are to be incorporated into and made a part of the minutes of this meeting.**

**EXHIBIT "A"**  
**2016-1 ADMINISTRATIVE REZONING**  
**FROM "COUNTY" A-1 TO "CITY" AG**

<b>Case #</b>	<b>Parcel ID</b>	<b>Property Owner</b>	<b>Acreage +/-</b>	<b>Future Land Use</b>	<b>Current Zoning</b>	<b>Proposed Zoning</b>
2016-1-2	17-20-28-0000-00-018	Donald S. & Kathleen V. Smithers	6.14	AG	A-1 (ZIP)	AG

**ORDINANCE NO. 2476**

**AN ORDINANCE OF THE CITY OF APOPKA, FLORIDA, CHANGING THE ZONING FROM “COUNTY” A-1 (AGRICULTURE) TO “CITY” AG (AGRICULTURE) FOR CERTAIN REAL PROPERTIES GENERALLY LOCATED WITHIN THE CITY LIMITS OF APOPKA, COMPRISING 6.14 ACRES, MORE OR LESS, AND OWNED BY DONALD S. & KATHLEEN V. SMITHERS; PROVIDING FOR DIRECTIONS TO THE COMMUNITY DEVELOPMENT DIRECTOR, SEVERABILITY, CONFLICTS, AND AN EFFECTIVE DATE.**

**WHEREAS**, to manage the growth, the City of Apopka, Florida, finds it in the best interest of the public health, safety and welfare of its citizens to establish zoning classifications within the City; and

**WHEREAS**, the City of Apopka Community Development Department, has requested an administrative change in zoning on said property as identified in Section I of this ordinance; and

**WHEREAS**, pursuant to the Interlocal Agreement between the City and Orange County (2004), policy of the City’s Comprehensive Plan Future Land Use Element (Policy 3.9), and State law (s 163.3202, F.S.), the City is required to assign a zoning category to lands that are annexed into the City’s jurisdiction.; and

**WHEREAS**, the proposed AG zoning has been found to be consistent with the City of Apopka Comprehensive Plan, and the City of Apopka Land Development Code.

**NOW THEREFORE, BE IT ORDAINED**, by the City Council of the City of Apopka, Florida, as follows:

**Section I.** That the zoning classification of the following described properties, being situated in the City of Apopka, Florida, is hereby AG as defined in the Apopka Land Development Code:

<b>Parcel ID</b>	<b>Property Owner</b>	<b>Acreage +/-</b>	<b>Land Use</b>	<b>Current Zoning</b>	<b>Proposed Zoning</b>
17-20-28-0000-00-018	Donald S. & Kathleen V. Smithers	6.14	AG	A-1 (ZIP)	AG

**Section II.** That the zoning classification is consistent with the Comprehensive Plan of the City of Apopka, Florida.

**Section III.** That the Community Development Director, or the Director’s designee, is hereby authorized to amend, alter, and implement the official zoning maps of the City of Apopka, Florida, to include said designation.

**Section IV.** That if any section or portion of a section or subsection of this Ordinance proves to be invalid, unlawful, or unconstitutional, it shall not be held to invalidate or impair the validity, force or effect of any other section or portion of section or subsection or part of this ordinance.

**Section V.** That all ordinances or parts of ordinances in conflict herewith are hereby repealed.

**Section VI.** That this Ordinance shall take effect upon the date of adoption.

READ FIRST TIME: April 6, 2016

READ SECOND TIME  
AND ADOPTION: April 20, 2016

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Joseph E. Kilsheimer, Mayor

ATTEST:

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Linda Goff, City Clerk

DULY ADVERTISED:      February 19, 2016  
   April 8, 2016



# CITY OF APOPKA CITY COUNCIL

PUBLIC HEARING  
 ANNEXATION  
 PLAT APPROVAL  
 OTHER:

DATE: April 20, 2016  
FROM: Community Development  
EXHIBITS: Zoning Report  
Vicinity Map  
Adjacent Zoning Map  
Adjacent Uses Map  
Existing Uses

**SUBJECT:** DONALD S. & KATHLEEN V. SMITHERS (CASE # 2016-1-2)

**PARCEL ID NUMBER:** 17-20-28-0000-00-018

**Request:** ADMINISTRATIVE REZONING ORDINANCE 2476  
**FROM:** "COUNTY" A-1 (ZIP) (0-1 DU/10 ACRES) (AGRICULTURE)  
**TO:** "CITY" AG (0-1 DU/5 ACRES) (AGRICULTURE)

## **SUMMARY**

**OWNER:** Donald S. & Kathleen V. Smithers  
**APPLICANT:** City of Apopka  
**LOCATION:** South of W Kelly Park Road, west of Anton Avenue  
**EXISTING USE:** Manufactured home  
**FUTURE LAND USE:** Agriculture (0 - 1 du/10 acre)  
**ZONING:** A-1 (ZIP)  
**PROPOSED DEVELOPMENT:** Manufactured home (existing)  
**PROPOSED ZONING:** AG  
**TRACT SIZE:** 6.14 +/- Acres  
**MAXIMUM ALLOWABLE DEVELOPMENT:**  
EXISTING ZONING: 1 Residential Unit  
PROPOSED ZONING: 1 Residential Unit

## **DISTRIBUTION**

Mayor Kilsheimer	Finance Dir.	Public Ser. Dir.
Commissioners (4)	HR Director	City Clerk
City Administrator Irby	IT Director	Fire Chief
Community Dev. Dir.	Police Chief	



**ADDITIONAL COMMENTS:** Pursuant to the Interlocal Agreement between the City and Orange County (2004), policy of the City’s Comprehensive Plan (Policy 3.9) and State law (s 163.3202, F.S.), the City is required to assign a zoning category to lands that are annexed into the City’s jurisdiction. The subject property was annexed into the City of Apopka on December 19, 2007, through the adoption of Ordinance No. 1999. Staff is requesting an administrative rezoning for the subject property to comply with the policy set forth in the Comprehensive Plan. The proposed city zoning category is comparable to the densities and intensities and uses allowed under the existing “county” zoning classification, and the proposed zoning change is compatible with the character of the surrounding area.

The character of the area is predominantly single-family residential, with “City” RCE-1 zoning to the west and “County” A-1 zoning to the north and east. Single-family residential is present to the south of the subject property. The current and proposed use of the site is for a manufactured home, which is a permitted use within the proposed “City” AG is zoning district. It is compatible with the uses in the surrounding area, which is predominantly rural.

Staff has analyzed the proposed amendment and determined that adequate public facilities exist to support this zoning change (see attached Zoning Report).

**COMPREHENSIVE PLAN COMPLIANCE:** The proposed zoning classification is consistent with the Future Land Use Designation assigned to the property.

**SCHOOL CAPACITY REPORT:** The request of the proposed rezoning would result in a number of residential units considered ‘de minimus’ and, therefore, a school capacity determination is not required for the subject properties.

**JOINT PLANNING AREA/OVERLAY:** The subject property is located within the “Northern Area” of the Joint Planning Area with Orange County. The subject properties are not located within any other city overall or protection area.

**ORANGE COUNTY NOTIFICATION:** The JPA requires the City to notify the County 30 days before any public hearing or advisory board. The City properly notified Orange County on February 5, 2016.

**PROPERTY OWNER NOTIFICATION:** The property owner was notified of this administrative rezoning and public hearing dates at least thirty (30) days prior to the adoption public hearing.

**PUBLIC HEARING SCHEDULE:**

- March 8, 2016 – Planning Commission (5:30 pm)
- April 6, 2016 - City Council (1:30 pm) - 1st Reading
- April 20, 2016 – City Council (7:00 pm) - 2nd Reading

**DULY ADVERTISED:**

- February 19, 2016 – Public Hearing Notice Ad
- April 8, 2016 – Ordinance Heading Ad

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**RECOMMENDED ACTION:**

The **Development Review Committee** recommends approval of the change in Zoning from “County” A-1 (ZIP) to “City” AG.

The **Planning Commission**, at its meeting on March 8, 2016, recommended approval (5-0) of the change in Zoning from “County” A-1 (ZIP) to “City” AG.

The **City Council**, at its meeting on April 6, 2016, accepted the First Reading of Ordinance No. 2476 and held it over for Second Reading and adoption on April 20, 2016.

Adopt Ordinance No. 2476.

**Note: This item is considered Quasi-Judicial. The staff report and its findings are to be incorporated into and made a part of the minutes of this meeting.**

**ZONING REPORT**

**RELATIONSHIP TO ADJACENT PROPERTIES:**

<i>Direction</i>	<i>Future Land Use</i>	<i>Zoning</i>	<i>Present Use</i>
North (City)	Rural Settlement (0 – 1 du/5 acres)	AG & RCE-1	Single-family home & vacant residential
East (County)	Rural (0 – 1 du/10 acres)	A-1	Manufactured home
South (City)	Residential Estates (0 – 1 du/ac)	PUD	Vacant residential
West (City)	Residential Estates (0 – 1 du/ac)	RCE-1	Manufactured home and ornamental nursery

**LAND USE &**

**TRAFFIC COMPATIBILITY:** The subject property fronts and is accessed by a local roadway (W Kelly Park Rd).

**COMPREHENSIVE  
 PLAN COMPLIANCE:**

The proposed AG zoning is consistent with the City’s Agriculture Future Land Use designation and with the character of the surrounding area and future proposed development. The AG zoning classification is one of the acceptable zoning categories allowed within the Agriculture Future Land Use category. Development Plans shall not exceed the density allowed in the adopted Future Land Use Designation.

**AG DISTRICT  
 REQUIREMENTS:**

- Minimum Living Area: 1,200 sq. ft. (Single-family)  
400 sq. ft. (mobile home)
- Minimum Site Area: 5 acres
- Minimum Lot Width: NA
- Setbacks: Front: 25 ft. (100 ft. non-residential uses)  
Rear: 25 ft. (100 ft. non-residential uses)  
Side: 25 ft. (100 ft. non-residential uses)  
Corner: 25 ft. (100 ft. non-residential uses)

Based on the above zoning standards, the subject site complies with code requirements for the AG district.

**BUFFERYARD  
 REQUIREMENTS:**

Uses including, but not limited to, kennels, livestock barn stables, and other similar uses shall be a minimum of 100 feet from all property lines. Apiaries shall be located 200 feet from any property line. All other yard setbacks shall be a minimum of 25 feet from the property lines.

**ALLOWABLE USES:**

Single-family dwellings, including mobile homes, and their customary accessory structures, apiaries, kennels, crops and animal production and structures necessary for support and such production. Livestock barns and stables, commercial wholesale foliage plant production, and similar compatible uses.

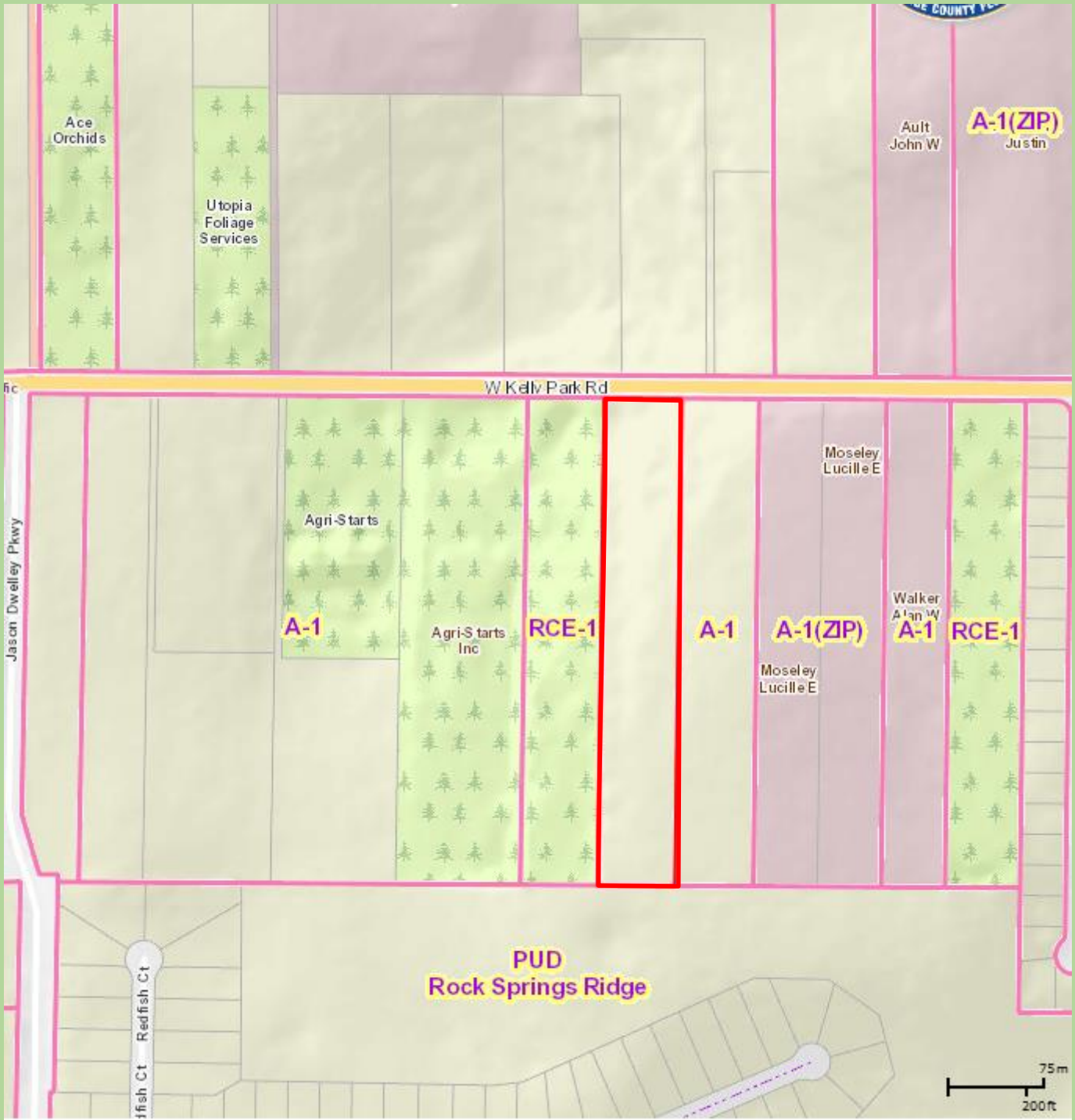


Donald S. & Kathleen V. Smithers  
6.14 +/- Acres  
Proposed Zoning Change:  
From: "County" A-1 (ZIP) (Agriculture) (21,780 sq. ft. min. lot)  
To: "County" AG (Agriculture) (5 acre min. lot)  
Parcel ID #: 17-20-28-0000-00-018

VICINITY MAP



### ADJACENT ZONING



ADJACENT USES



EXISTING USES



**Backup material for agenda item:**

2. Ordinance 2477 – Second Reading – 2016-1 Administrative Rezoning - Quasi-Judicial David Moon





## CITY OF APOPKA CITY COUNCIL

CONSENT AGENDA  
 PUBLIC HEARING  
 SPECIAL REPORTS  
 OTHER:

MEETING OF: April 20, 2016  
 FROM: Community Development  
 EXHIBITS: A-1 Spreadsheet  
 A-2 Spreadsheet  
 Ordinance No. 2477  
 Zoning Reports

**SUBJECT: 2016-1 ADMINISTRATIVE REZONING FROM “COUNTY” A-1 (ZIP) & A-2 (ZIP) TO “CITY” AG (AGRICULTURE)**

**REQUEST: SECOND READING & ADOPTION OF ORDINANCE NO. 2477 – 2016 ADMINISTRATIVE REZONING; FROM “COUNTY” A-1 (ZIP) & A-2 (ZIP) TO “CITY” AG (AGRICULTURE).**

**SUMMARY:**

The three (3) parcels, comprising a total of 13.32 +/- acres, have been annexed into the City of Apopka and have been assigned Future Land Use designations compatible with the proposed AG zoning designation. All subject properties currently have a City Future Land Use Designation of Rural Settlement (RS) and a County zoning category of A-1 or A-2 assigned to them. A summary of each zoning case is provided in Exhibits “A” and “B.” Exhibit “A” describes parcels currently assigned a “County” A-1 zoning category while Exhibit “B” describes parcels currently assigned a “County” A-2 zoning category.

A brief summary of the administrative rezoning cases:

<u>A-1 Properties</u>		<u>A-2 Properties</u>	
# of Parcels:	2	# of Parcels:	1
# of Property Owners:	2	# of Property Owners:	1
Acreage:	11.09 +/- acres	Acreage:	2.23 +/- acres

The attached exhibits provide a summary of each proposed zoning amendment. Each property owner has been notified via certified mail that a zoning category comparable to the County designation will be assigned to their property. An individual zoning report has been prepared for each zoning case. All zoning reports are provided in Exhibit “B”.

Pursuant to the Interlocal Agreement between the City and Orange County (2004), policy of the City’s Comprehensive Plan (Policy 3.9) and State law (s 163.3202, F.S.), the City is required to assign a zoning category to lands that are annexed into the City’s jurisdiction. To comply with these requirements, city staff is recommending that the City assign a zoning category that is most compatible to the current zoning category that was assigned by Orange County.

**FUNDING SOURCE:** Not Applicable.

**DISTRIBUTION**

Mayor Kilsheimer  
 Commissioners  
 City Administrator  
 Community Development Director

Finance Director  
 HR Director  
 IT Director  
 Police Chief

Public Services Director  
 Recreation Director  
 City Clerk  
 Fire Chief

**SCHOOL CAPACITY REPORT:** The impact on the number of residential units under the proposed rezoning for each case will be de minimus and, therefore, a school capacity enhancement agreement with OCPS is not necessary.

**ORANGE COUNTY NOTIFICATION:** The JPA requires the City to notify the County 30 days before any public hearing or advisory board. The City notified Orange County on February 5, 2016.

**PUBLIC HEARING SCHEDULE:**

March 8, 2016 – Planning Commission (5:30 pm)  
April 6, 2016 – City Council (1:30 pm) – 1st Reading  
April 20, 2016 – City Council (8:00 pm) – 2<sup>nd</sup> Reading

**DULY ADVERTISED:**

February 19, 2016 – Public Notice and Notification  
April 8, 2016 – Ordinance Heading Ad

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**RECOMMENDATION ACTION:**

The **Development Review Committee** recommends approval of the change in Zoning from “County” A-1 (ZIP) and “County” A-2 (ZIP) to “City” AG (Agriculture) as set forth in Exhibits “A” and “B” for the properties described therein.

The **Planning Commission**, at its meeting on March 8, 2016, recommended approval (5-0) of the change in Zoning from “County” A-1 (ZIP) and “County” A-2 (ZIP) to “City” AG (Agriculture) as set forth in Exhibits “A” and “B” for the properties described therein.

The **City Council**, at its meeting on April 6, 2016, accepted the First Reading of Ordinance No. 2477 and held it over for Second Reading and Adoption on April 20, 2016.

Adopt Ordinance No. 2477.

**Note: This item is considered Quasi-Judicial. The staff report and its findings are to be incorporated into and made a part of the minutes of this meeting.**

**EXHIBIT "A"**  
**2016-1 ADMINISTRATIVE REZONING**  
**FROM "COUNTY" A-1 TO "CITY" AG**

<b>Case #</b>	<b>Parcel ID</b>	<b>Property Owner</b>	<b>Acreage +/-</b>	<b>Future Land Use</b>	<b>Current Zoning</b>	<b>Proposed Zoning</b>
2016-1-3	09-20-28-7608-00-050	Robert & Joyce Ayers	9.88	RS	A-1 (ZIP)	AG
2016-1-4	<i><b>CASE WITHDRAWN</b></i>					
2016-1-5	05-20-28-0000-00-020	James & Pamela Wright	1.21	RS	A-1 (ZIP)	AG

**EXHIBIT "B"**  
**2016-1 ADMINISTRATIVE REZONING**  
**FROM "COUNTY" A-2 TO "CITY" AG**

<b>Case #</b>	<b>Parcel ID</b>	<b>Property Owner</b>	<b>Acreage +/-</b>	<b>Future Land Use</b>	<b>Current Zoning</b>	<b>Proposed Zoning</b>
2016-1-1	24-20-27-0000-00-012	Michael & Melessa Handy	2.23	RS	A-2 (ZIP)	AG

**ORDINANCE NO. 2477**

**AN ORDINANCE OF THE CITY OF APOPKA, FLORIDA, CHANGING THE ZONING FROM “COUNTY” A-1 AND A-2 (ZIP) TO “CITY” AG (AGRICULTURE) FOR CERTAIN REAL PROPERTIES GENERALLY LOCATED WITHIN THE CITY LIMITS OF APOPKA, COMPRISING 13.32 ACRES, MORE OR LESS, AND OWNED BY ROBERT AND JOYCE AYERS; JAMES AND PAMELIA WRIGHT; AND MICHAEL AND MELESSA HANDY; PROVIDING FOR DIRECTIONS TO THE COMMUNITY DEVELOPMENT DIRECTOR, SEVERABILITY, CONFLICTS, AND AN EFFECTIVE DATE.**

**WHEREAS**, to manage the growth, the City of Apopka, Florida, finds it in the best interest of the public health, safety and welfare of its citizens to establish zoning classifications within the City; and

**WHEREAS**, the City of Apopka Community Development Department, has requested an administrative change in zoning on said property as identified in Section I of this ordinance; and

**WHEREAS**, Pursuant to the Interlocal Agreement between the City and Orange County (2004), policy of the City’s Comprehensive Plan Future Land Use Element (Policy 3.9), and State law (s 163.3202, F.S.), the City is required to assign a zoning category to lands that are annexed into the City’s jurisdiction.; and

**WHEREAS**, the proposed AG zoning has been found to be consistent with the City of Apopka Comprehensive Plan, and the City of Apopka Land Development Code.

**NOW THEREFORE, BE IT ORDAINED**, by the City Council of the City of Apopka, Florida, as follows:

**Section I.** That the zoning classification of the following described properties, being situated in the City of Apopka, Florida, is hereby AG as defined in the Apopka Land Development Code:

<b>Parcel ID</b>	<b>Property Owner</b>	<b>Acreage +/-</b>	<b>Land Use</b>	<b>Current Zoning</b>	<b>Proposed Zoning</b>
09-20-28-7608-00-050	Robert & Joyce Ayers	9.88	RS	A-1 (ZIP)	AG
05-20-28-0000-00-020	James & Pamela Wright	1.21	RS	A-1 (ZIP)	AG
24-20-27-0000-00-012	Michael & Melessa Handy	2.23	RS	A-2 (ZIP)	AG

**Section II.** That the zoning classification is consistent with the Comprehensive Plan of the City of Apopka, Florida.

**Section III.** That the Community Development Director, or the Director’s designee, is hereby authorized to amend, alter, and implement the official zoning maps of the City of Apopka, Florida, to include said designation.

**Section IV.** That if any section or portion of a section or subsection of this Ordinance proves to be invalid, unlawful, or unconstitutional, it shall not be held to invalidate or impair the validity, force or effect of any other section or portion of section or subsection or part of this ordinance.

**Section V.** That all ordinances or parts of ordinances in conflict herewith are hereby repealed.

**Section VI.** That this Ordinance shall take effect upon the date of adoption.

READ FIRST TIME: April 6, 2016

READ SECOND TIME  
AND ADOPTION: April 20, 2016

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Joseph E. Kilsheimer, Mayor

ATTEST:

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Linda Goff, City Clerk

DULY ADVERTISED:     February 19, 2016  
                                  April 8, 2016



# CITY OF APOPKA CITY COUNCIL

PUBLIC HEARING  
 ANNEXATION  
 PLAT APPROVAL  
 OTHER:

DATE: April 20, 2016  
FROM: Community Development  
EXHIBITS: Zoning Report  
Vicinity Map  
Adjacent Zoning Map  
Adjacent Uses Map  
Existing Uses

**SUBJECT:** MICHAEL & MELESSA HANDY (CASE # 2016-1-1)

**PARCEL ID NUMBER:** 24-20-27-0000-00-012

**Request:** ADMINISTRATIVE REZONING  
**FROM:** "COUNTY" A-2 (ZIP) (0-1 DU/10 ACRES) (AGRICULTURE)  
**TO:** "CITY" AG (0-1 DU/5 ACRES) (AGRICULTURE)

## SUMMARY

**OWNER:** Michael & Melessa Handy  
**APPLICANT:** City of Apopka  
**LOCATION:** West of Plymouth Sorrento Road, north of Lent Road  
**EXISTING USE:** Single-family home  
**FUTURE LAND USE:** Rural Settlement (0 - 1 du/5 acres)  
**ZONING:** A-2 (ZIP)  
**PROPOSED DEVELOPMENT:** Single-family home (existing)  
**PROPOSED ZONING:** AG  
**TRACT SIZE:** 2.23 +/- Acres  
**MAXIMUM ALLOWABLE DEVELOPMENT:** EXISTING ZONING: 1 Residential Unit  
PROPOSED ZONING: 1 Residential Unit

## DISTRIBUTION

Mayor Kilsheimer  
Commissioners (4)  
City Administrator Irby  
Community Dev. Director

Finance Director  
HR Director  
IT Director  
Police Chief

Public Ser. Director  
City Clerk  
Fire Chief

**ADDITIONAL COMMENTS:** Policy 3.9 of the Apopka Comprehensive Plan 2030 requires that a “city” zoning classification be assigned to annexed properties. The subject property was annexed into the City of Apopka on September 5, 2007, through the adoption of Ordinance No. 1964. Staff is requesting an administrative rezoning for the subject property to comply with the policy set forth in the Comprehensive Plan. The proposed city zoning category is comparable to the densities and intensities and uses allowed under the existing “county” zoning classification, and the proposed zoning change is compatible with the character of the surrounding area.

The subject property is located in a predominantly rural and single-family residential area, with “County” A-2 zoning to the north, west and south, and vacant “City” R-1AAA to the east. The existing and proposed use for the site is for a single-family home, which is permitted within the proposed AG zoning district and compatible with the surrounding uses.

Staff has analyzed the proposed amendment and determined that adequate public facilities exist to support this zoning change (see attached Zoning Report).

**COMPREHENSIVE PLAN COMPLIANCE:** The proposed zoning classification is consistent with the Future Land Use Designation assigned to the property.

**SCHOOL CAPACITY REPORT:** The request of the proposed rezoning would result in a number of residential units considered ‘de minimus’ and, therefore, a school capacity determination is not required for the subject properties.

**JOINT PLANNING AREA/OVERLAY:** The subject property is located within the “Northern Area” of the Joint Planning Area with Orange County. The subject properties are not located within any other city overall or protection area.

**ORANGE COUNTY NOTIFICATION:** The JPA requires the City to notify the County 30 days before any public hearing or advisory board. The City properly notified Orange County on February 5, 2016.

**PROPERTY OWNER NOTIFICATION:** The property owner was notified of this administrative rezoning and public hearing dates at least thirty (30) days prior to the adoption public hearing.

**PUBLIC HEARING SCHEDULE:**

- March 8, 2016 – Planning Commission (5:30 pm)
- April 6, 2016 - City Council (1:30 pm) - 1st Reading
- April 20, 2016 – City Council (7:00 pm) - 2nd Reading

**DULY ADVERTISED:**

- February 19, 2016 – Public Hearing Notice Ad
- April 8, 2016 – Ordinance Heading Ad



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**RECOMMENDED ACTION:**

The **Development Review Committee** recommends approval of the change in Zoning from “County” A-2 (ZIP) to “City” AG.

The **Planning Commission**, at its meeting on March 8, 2016, recommended approval (5-0) of the change in Zoning from “County” A-2 (ZIP) to “City” AG.

The City Council, at its meeting on April 6, 2016, accepted the First Reading of Ordinance No. 2477 and held it over for Second Reading and Adoption on April 20, 2016.

Adopt Ordinance No. 2477.

**Note: This item is considered Quasi-Judicial. The staff report and its findings are to be incorporated into and made a part of the minutes of this meeting.**

**ZONING REPORT**

**RELATIONSHIP TO ADJACENT PROPERTIES:**

<i>Direction</i>	<i>Future Land Use</i>	<i>Zoning</i>	<i>Present Use</i>
North (County)	Rural (0 – 1 du/10 acres)	A-2	Single-family home
East (City)	Residential Very Low Suburban (0 – 2 du/ acre)	R-1AAA	Vacant
South (County)	Rural (0 – 1 du/10 acres)	A-2	Single-family home
West (County)	Rural (0 – 1 du/10 acres)	A-2	Container nursery

**LAND USE &**

**TRAFFIC COMPATIBILITY:** The subject property fronts and is accessed by a minor arterial roadway (Plymouth Sorrento Rd).

**COMPREHENSIVE  
 PLAN COMPLIANCE:**

The proposed AG zoning is consistent with the City’s Rural Settlement Future Land Use designation and with the character of the surrounding area and future proposed development. The AG zoning classification is one of the acceptable zoning categories allowed within the Rural Settlement Future Land Use category. Development Plans shall not exceed the density allowed in the adopted Future Land Use Designation.

**AG DISTRICT  
 REQUIREMENTS:**

- Minimum Living Area: 1,200 sq. ft. (Single-family)  
 400 sq. ft. (mobile home)
- Minimum Site Area: 5 acres
- Minimum Lot Width: NA
- Setbacks: Front: 25 ft. (100 ft. non-residential uses)  
 Rear: 25 ft. (100 ft. non-residential uses)  
 Side: 25 ft. (100 ft. non-residential uses)  
 Corner: 25 ft. (100 ft. non-residential uses)

Based on the above zoning standards, the subject site complies with code requirements for the AG district.

**BUFFERYARD  
 REQUIREMENTS:**

Uses including, but not limited to, kennels, livestock barn stables, and other similar uses shall be a minimum of 100 feet from all property lines. Apiaries shall be located 200 feet from any property line. All other yard setbacks shall be a minimum of 25 feet from the property lines.

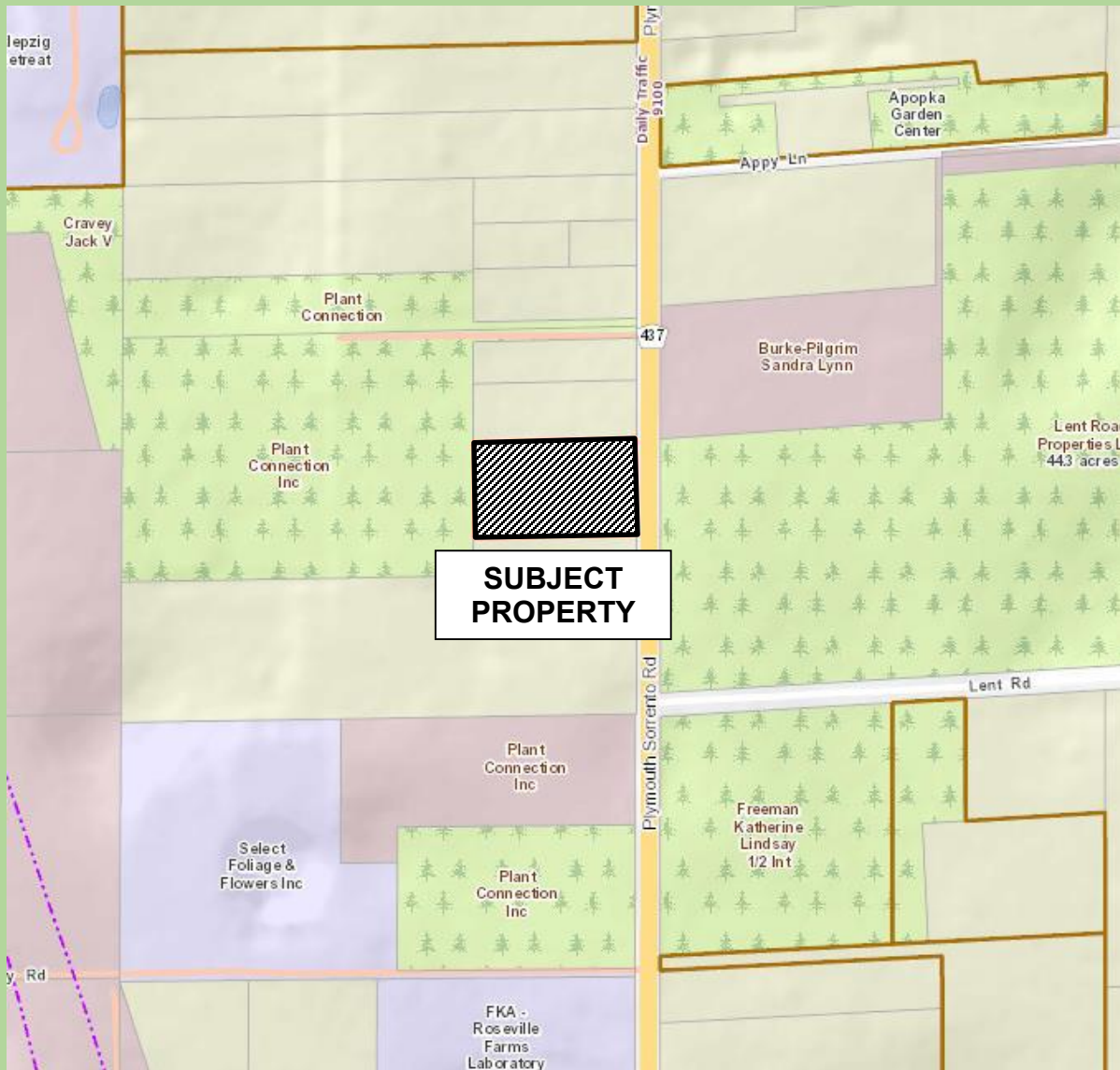
**ALLOWABLE USES:**

Single-family dwellings, including mobile homes, and their customary accessory structures, apiaries, kennels, crops and animal production and structures necessary for support and such production. Livestock barns and stables, commercial wholesale foliage plant production, and similar compatible uses.



**Michael & Melessa Handy**  
**2.23 +/- Acres**  
**Proposed Zoning Change:**  
**From: “County” A-2 (ZIP) (Agriculture) (21,780 sq. ft. min. lot)**  
**To: “County” AG (Agriculture) (5 acre min. lot)**  
**Parcel ID #: 24-20-27-0000-00-012**

**VICINITY MAP**





ADJACENT ZONING





ADJACENT USES





**EXISTING  
USES**





# CITY OF APOPKA CITY COUNCIL

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<input checked="" type="checkbox"/> PUBLIC HEARING	DATE:	April 20, 2016
<input type="checkbox"/> ANNEXATION	FROM:	Community Development
<input type="checkbox"/> PLAT APPROVAL	EXHIBITS:	Zoning Report
<input type="checkbox"/> OTHER:		Vicinity Map
		Adjacent Zoning Map
		Adjacent Uses Map
		Existing Uses

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**SUBJECT:**                    **ROBERT & JOYCE AYERS (CASE # 2016-1-3)**

**PARCEL ID NUMBER:**    **09-20-28-7608-00-050**

**Request:**                    **ADMINISTRATIVE REZONING**  
**FROM: "COUNTY" A-1 (ZIP) (0-1 DU/10 ACRES) (AGRICULTURE)**  
**TO:        "CITY" AG (0-1 DU/5 ACRES) (AGRICULTURE)**

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**SUMMARY**

OWNER:	Robert & Joyce Ayers	
APPLICANT:	City of Apopka	
LOCATION:	West of Mt. Plymouth Road, north of Longhorn Drive	
EXISTING USE:	Manufactured home	
FUTURE LAND USE:	Rural Settlement (0 - 1 du/5 acres)	
ZONING:	A-1 (ZIP)	
PROPOSED DEVELOPMENT:	Manufactured home (existing)	
PROPOSED ZONING:	AG	
TRACT SIZE:	9.88 +/- Acres	
MAXIMUM ALLOWABLE DEVELOPMENT:	EXISTING ZONING:	1 Residential Unit
	PROPOSED ZONING:	1 Residential Unit

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**DISTRIBUTION**

Mayor Kilsheimer	Finance Director	Public Ser. Director
Commissioners (4)	HR Director	City Clerk
City Administrator Irby	IT Director	Fire Chief
Community Dev. Director	Police Chief	

**ADDITIONAL COMMENTS:** Policy 3.9 of the Apopka Comprehensive Plan 2030 requires that a “city” zoning classification be assigned to annexed properties. The subject property was annexed into the City of Apopka on November 16, 2005, through the adoption of Ordinance No. 1777. Staff is requesting an administrative rezoning for the subject property to comply with the policy set forth in the Comprehensive Plan. The proposed city zoning category is comparable to the densities and intensities and uses allowed under the existing “county” zoning classification, and the proposed zoning change is compatible with the character of the surrounding area.

The subject property is located in an area characterized as single-family and agricultural in nature, with “County” A-1 zoning to the north and west of the subject property, and single-family residential to the east and south of the site. The existing and proposed use of the subject site for a manufactured home is a permitted use in the proposed AG zoning district and compatible with the surrounding zoning and uses.

Staff has analyzed the proposed amendment and determined that adequate public facilities exist to support this zoning change (see attached Zoning Report).

**COMPREHENSIVE PLAN COMPLIANCE:** The proposed zoning classification is consistent with the Future Land Use Designation assigned to the property.

**SCHOOL CAPACITY REPORT:** The request of the proposed rezoning would result in a number of residential units considered ‘de minimus’ and, therefore, a school capacity determination is not required for the subject properties.

**JOINT PLANNING AREA/OVERLAY:** The subject property is located within the “Northern Area” of the Joint Planning Area with Orange County. The subject properties are not located within any other city overall or protection area.

**ORANGE COUNTY NOTIFICATION:** The JPA requires the City to notify the County 30 days before any public hearing or advisory board. The City properly notified Orange County on February 5, 2016.

**PROPERTY OWNER NOTIFICATION:** The property owner was notified of this administrative rezoning and public hearing dates at least thirty (30) days prior to the adoption public hearing.

**PUBLIC HEARING SCHEDULE:**

March 8, 2016 – Planning Commission (5:30 pm)

April 6, 2016 - City Council (1:30 pm) - 1st Reading

April 20, 2016 – City Council (7:00 pm) - 2nd Reading

**DULY ADVERTISED:**

February 19, 2016 – Public Hearing Notice Ad

April 8, 2016 – Ordinance Heading Ad



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**RECOMMENDED ACTION:**

The **Development Review Committee** recommends approval of the change in Zoning from “County” A-1 (ZIP) to “City” AG.

The **Planning Commission**, at its meeting on March 8, 2016, recommended approval (5-0) of the change in Zoning from “County” A-1 (ZIP) to “City” AG.

The **City Council**, at its meeting on April 6, 2016, accepted the First Reading of Ordinance No. 2477 and held it over for Second Reading and Adoption on April 20, 2016.

Adopt Ordinance No. 2477.

**Note: This item is considered Quasi-Judicial. The staff report and its findings are to be incorporated into and made a part of the minutes of this meeting.**

**ZONING REPORT**

**RELATIONSHIP TO ADJACENT PROPERTIES:**

<i>Direction</i>	<i>Future Land Use</i>	<i>Zoning</i>	<i>Present Use</i>
North (City) North (County)	Rural Settlement (0 – 1 du/5 acres) and Rural (0 – 1 du/10 acres)	AG A-2	Single-family home
East (City)	Low Density Residential (0 – 4 du/ acre)	R-1	Vacant residential
South (County)	Rural Settlement (0 – 1 du/5 acres)	AG	Single-family home
West (City)	Rural Settlement (0 – 1 du/5 acres)	A-1 (ZIP)	State conservation

**LAND USE &**

**TRAFFIC COMPATIBILITY:** The subject property fronts and is accessed by a local roadway (Mt. Plymouth Rd).

**COMPREHENSIVE  
 PLAN COMPLIANCE:**

The proposed AG zoning is consistent with the City’s Rural Settlement Future Land Use designation and with the character of the surrounding area and future proposed development. The AG zoning classification is one of the acceptable zoning categories allowed within the Rural Settlement Future Land Use category. Development Plans shall not exceed the density allowed in the adopted Future Land Use Designation.

**AG DISTRICT  
 REQUIREMENTS:**

- Minimum Living Area: 1,200 sq. ft. (Single-family)  
400 sq. ft. (mobile home)
- Minimum Site Area: 5 acres
- Minimum Lot Width: NA
- Setbacks: Front: 25 ft. (100 ft. non-residential uses)  
Rear: 25 ft. (100 ft. non-residential uses)  
Side: 25 ft. (100 ft. non-residential uses)  
Corner: 25 ft. (100 ft. non-residential uses)

Based on the above zoning standards, the subject site complies with code requirements for the AG district.

**BUFFERYARD  
 REQUIREMENTS:**

Uses including, but not limited to, kennels, livestock barn stables, and other similar uses shall be a minimum of 100 feet from all property lines. Apiaries shall be located 200 feet from any property line. All other yard setbacks shall be a minimum of 25 feet from the property lines.

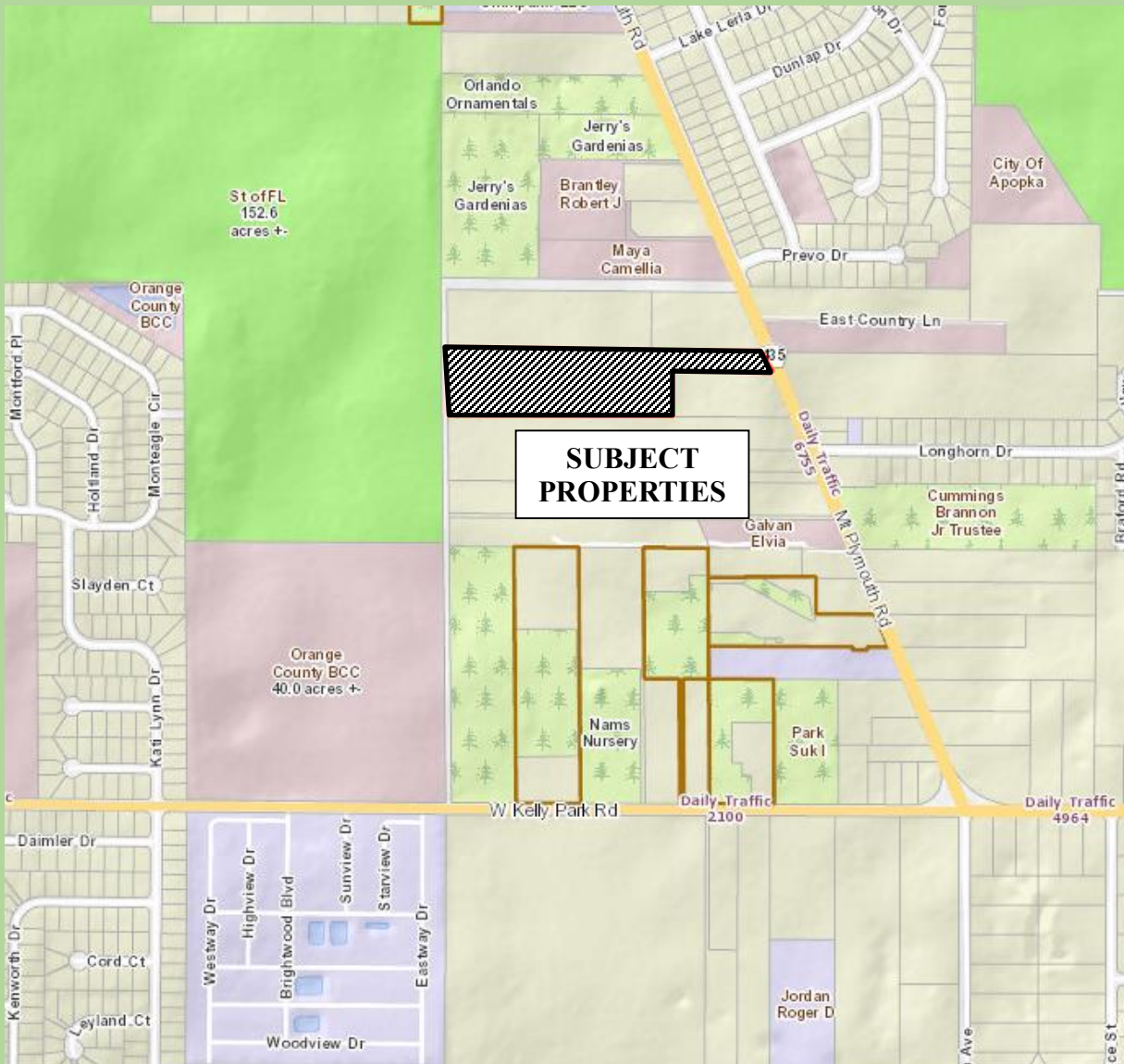
**ALLOWABLE USES:**

Single-family dwellings, including mobile homes, and their customary accessory structures, apiaries, kennels, crops and animal production and structures necessary for support and such production. Livestock barns and stables, commercial wholesale foliage plant production, and similar compatible uses.



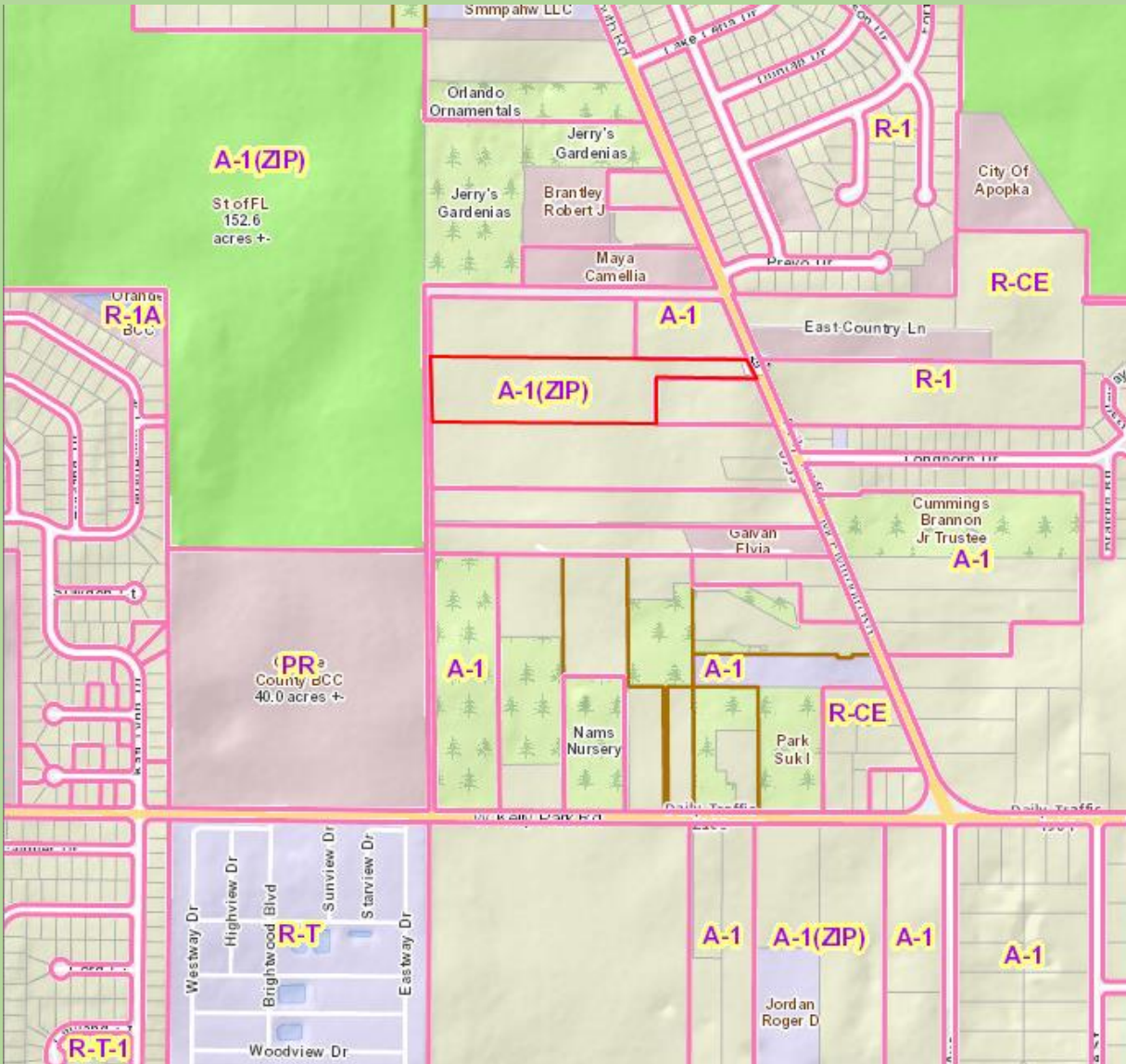
**Robert & Joyce Ayers**  
**9.88 +/- Acres**  
**Proposed Zoning Change:**  
**From: "County" A-1 (ZIP) (Agriculture) (21,780 sq. ft. min. lot)**  
**To: "County" AG (Agriculture) (5 acre min. lot)**  
**Parcel ID #: 09-20-28-7608-00-050**

**VICINITY MAP**



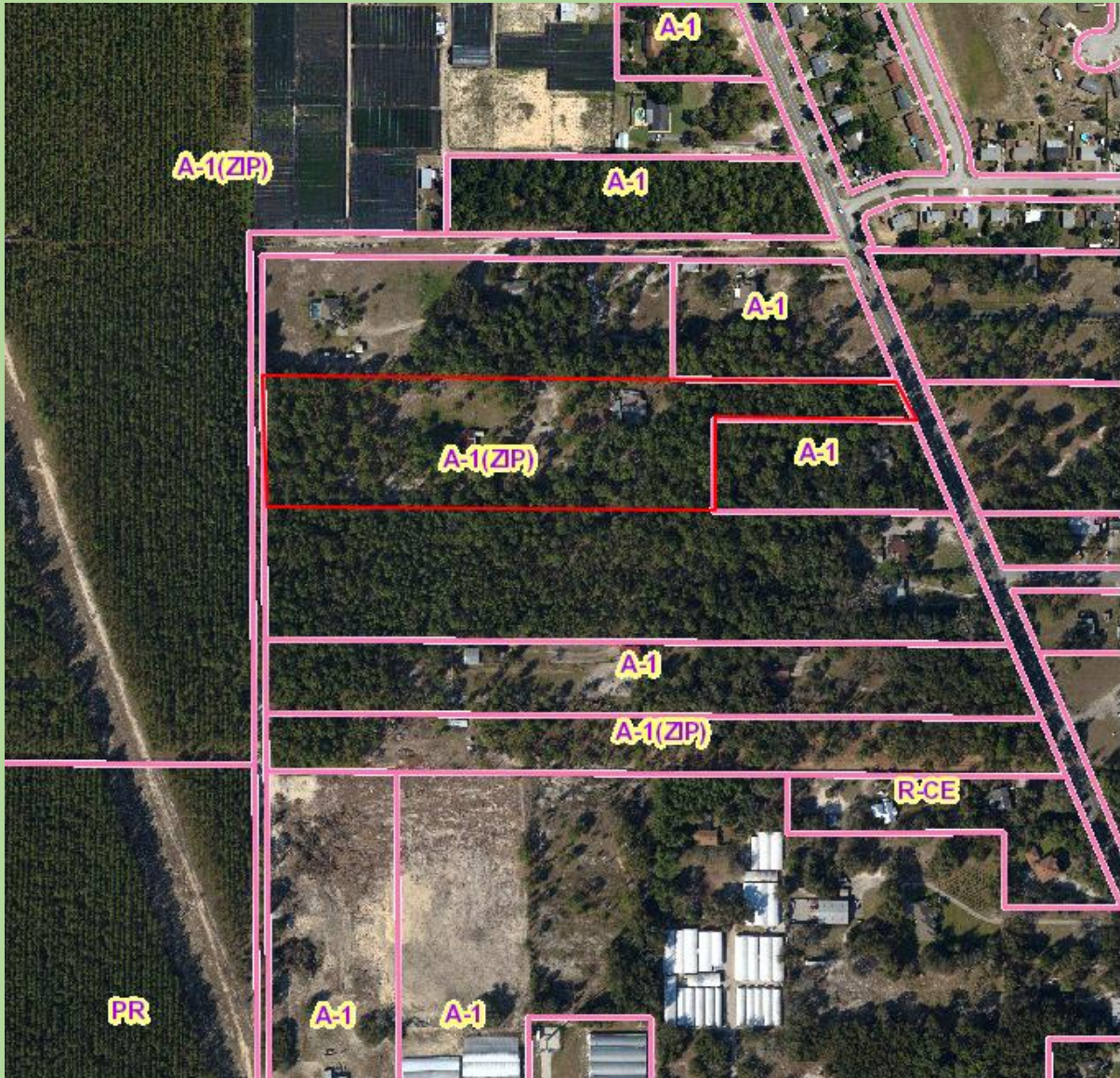


### ADJACENT ZONING



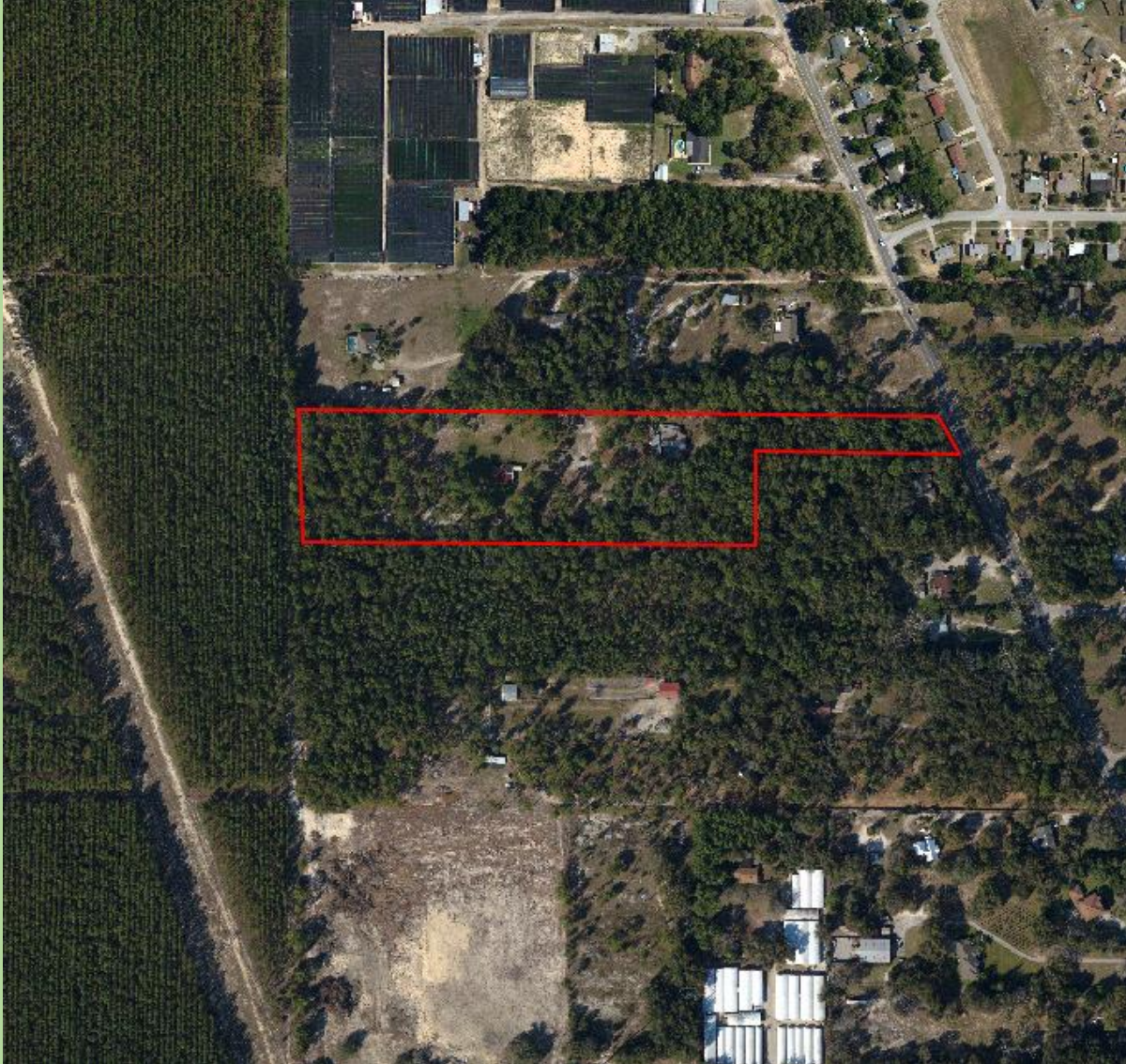


### ADJACENT USES





**EXISTING  
USES**





**CITY OF APOPKA  
CITY COUNCIL**

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<input checked="" type="checkbox"/> PUBLIC HEARING	DATE: April 20, 2016
<input type="checkbox"/> ANNEXATION	FROM: Community Development
<input type="checkbox"/> PLAT APPROVAL	EXHIBITS: Zoning Report
<input type="checkbox"/> OTHER:	Vicinity Map
	Adjacent Zoning Map
	Adjacent Uses Map
	Existing Uses

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**SUBJECT: JAMES H. & PAMELIA M. WRIGHT (CASE # 2016-1-5)**

**PARCEL ID NUMBER: 05-20-28-0000-00-020**

**Request: ADMINISTRATIVE REZONING**

**FROM: "COUNTY" A-1 (ZIP) (0-1 DU/10 ACRES) (AGRICULTURE)**  
**TO: "CITY" AG (0-1 DU/5 ACRES) (AGRICULTURE)**

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**SUMMARY**

OWNER: James H. & Pamela M. Wright

APPLICANT: City of Apopka

LOCATION: North of Haas Road, east of Foliage Way

EXISTING USE: Single-family home

FUTURE LAND USE: Rural Settlement (0 - 1 du/5 acres)

ZONING: A-1 (ZIP)

PROPOSED DEVELOPMENT: Single-family home (existing)

PROPOSED ZONING: AG

TRACT SIZE: 1.21 +/- Acres

MAXIMUM ALLOWABLE DEVELOPMENT: EXISTING ZONING: 1 Residential Unit  
 PROPOSED ZONING: 1 Residential Unit

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**DISTRIBUTION**

Mayor Kilsheimer	Finance Director	Public Ser. Director
Commissioners (4)	HR Director	City Clerk
City Administrator Irby	IT Director	Fire Chief
Community Dev. Director	Police Chief	

**ADDITIONAL COMMENTS:** Policy 3.9 of the Apopka Comprehensive Plan 2030 requires that a “city” zoning classification be assigned to annexed properties. The subject property was annexed into the City of Apopka on November 16, 2005, through the adoption of Ordinance No. 1776. Staff is requesting an administrative rezoning for the subject property to comply with the policy set forth in the Comprehensive Plan. The proposed city zoning category is comparable to the densities and intensities and uses allowed under the existing “county” zoning classification, and the proposed zoning change is compatible with the character of the surrounding area.

The subject property is located in an area that is surrounding by agricultural/rural land uses and single-family/manufactured homes. The properties to the south are “county” A-1 with planted timberland, with AG zoning and timberland to the east of the subject property. Properties to the north and west of the site are vacant with “City” AG zoning or ZIP (zoning in progress) zoning. The existing and proposed use of the subject property is for a single-family home, which is permitted in the AG zoning district and compatible with surrounding uses and zoning.

Staff has analyzed the proposed amendment and determined that adequate public facilities exist to support this zoning change (see attached Zoning Report).

**COMPREHENSIVE PLAN COMPLIANCE:** The proposed zoning classification is consistent with the Future Land Use Designation assigned to the property.

**SCHOOL CAPACITY REPORT:** The request of the proposed rezoning would result in a number of residential units considered ‘de minimus’ and, therefore, a school capacity determination is not required for the subject properties.

**JOINT PLANNING AREA/OVERLAY:** The subject property is located within the “Northern Area” of the Joint Planning Area with Orange County. The subject properties are not located within any other city overall or protection area.

**ORANGE COUNTY NOTIFICATION:** The JPA requires the City to notify the County 30 days before any public hearing or advisory board. The City properly notified Orange County on February 5, 2016.

**PROPERTY OWNER NOTIFICATION:** The property owner was notified of this administrative rezoning and public hearing dates at least thirty (30) days prior to the adoption public hearing.

**PUBLIC HEARING SCHEDULE:**

March 8, 2016 – Planning Commission (5:30 pm)

April 6, 2016 - City Council (1:30 pm) - 1st Reading

April 20, 2016 – City Council (7:00 pm) - 2nd Reading

**DULY ADVERTISED:**

February 19, 2016 – Public Hearing Notice Ad

April 8, 2016 – Ordinance Heading Ad



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**RECOMMENDED ACTION:**

The **Development Review Committee** recommends approval of the change in Zoning from “County” A-1 (ZIP) to “City” AG.

The **Planning Commission**, at its meeting on March 8, 2016, recommended approval (5-0) of the change in Zoning from “County” A-1 (ZIP) to “City” AG.

The **City Council**, at its meeting on April 6, 2016, accepted the First Reading of Ordinance No. 2477 and held it over for Second Reading and Adoption on April 20, 2016.

Adopt Ordinance No. 2477.

**Note: This item is considered Quasi-Judicial. The staff report and its findings are to be incorporated into and made a part of the minutes of this meeting.**

**ZONING REPORT**

**RELATIONSHIP TO ADJACENT PROPERTIES:**

<i>Direction</i>	<i>Future Land Use</i>	<i>Zoning</i>	<i>Present Use</i>
North (City)	Rural Settlement (0 – 1 du/5 acres)	A-2	Manufactured home
East (City)	Rural Settlement (0 – 1 du/5 acres)	AG	Planted timberland
South (City)	Rural Settlement (0 – 1 du/5 acres)	A-1 (ZIP)	State conservation land
West (City)	Rural Settlement (0 – 1 du/5 acres)	AG	Manufactured home

**LAND USE &**

**TRAFFIC COMPATIBILITY:** The subject property fronts and is accessed by a local roadway (Haas Rd).

**COMPREHENSIVE  
 PLAN COMPLIANCE:**

The proposed AG zoning is consistent with the City’s Rural Settlement Future Land Use designation and with the character of the surrounding area and future proposed development. The AG zoning classification is one of the acceptable zoning categories allowed within the Rural Settlement Future Land Use category. Development Plans shall not exceed the density allowed in the adopted Future Land Use Designation.

**AG DISTRICT  
 REQUIREMENTS:**

- Minimum Living Area: 1,200 sq. ft. (Single-family)  
400 sq. ft. (mobile home)
- Minimum Site Area: 5 acres
- Minimum Lot Width: NA
- Setbacks: Front: 25 ft. (100 ft. non-residential uses)  
Rear: 25 ft. (100 ft. non-residential uses)  
Side: 25 ft. (100 ft. non-residential uses)  
Corner: 25 ft. (100 ft. non-residential uses)

Based on the above zoning standards, the subject site does not meet the minimum lot standards of the AG zoning district, but is considered a legal, non-conforming lot.

**BUFFERYARD  
 REQUIREMENTS:**

Uses including, but not limited to, kennels, livestock barn stables, and other similar uses shall be a minimum of 100 feet from all property lines. Apiaries shall be located 200 feet from any property line. All other yard setbacks shall be a minimum of 25 feet from the property lines.

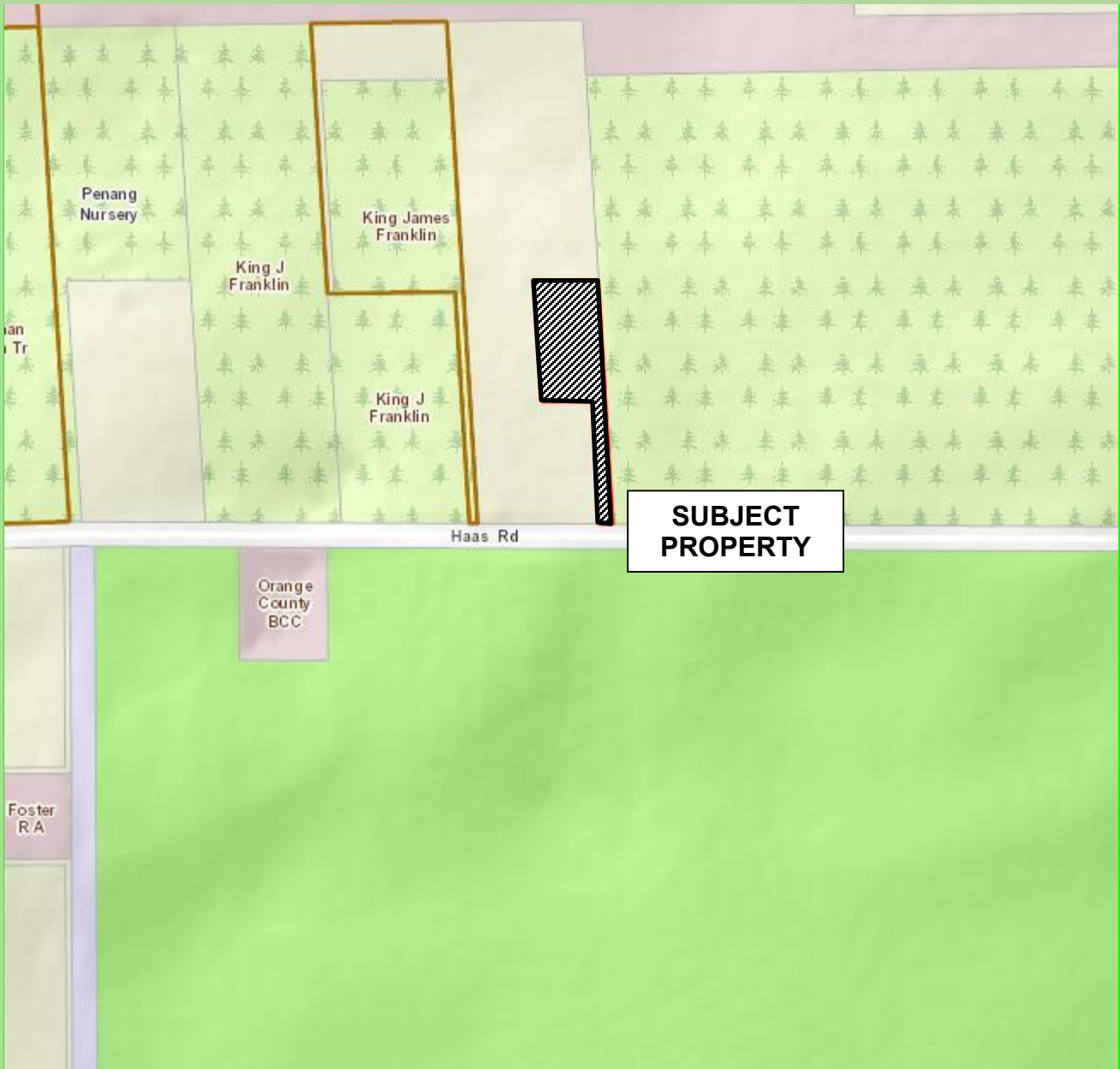
**ALLOWABLE USES:**

Single-family dwellings, including mobile homes, and their customary accessory structures, apiaries, kennels, crops and animal production and structures necessary for support and such production. Livestock barns and stables, commercial wholesale foliage plant production, and similar compatible



James & Pamela Wright  
1.21 +/- Acres  
Proposed Zoning Change:  
From: "County" A-1 (ZIP) (Agriculture) (21,780 sq. ft. min. lot)  
To: "County" AG (Agriculture) (5 acre min. lot)  
Parcel ID #: 05-20-28-0000-00-020

VICINITY MAP



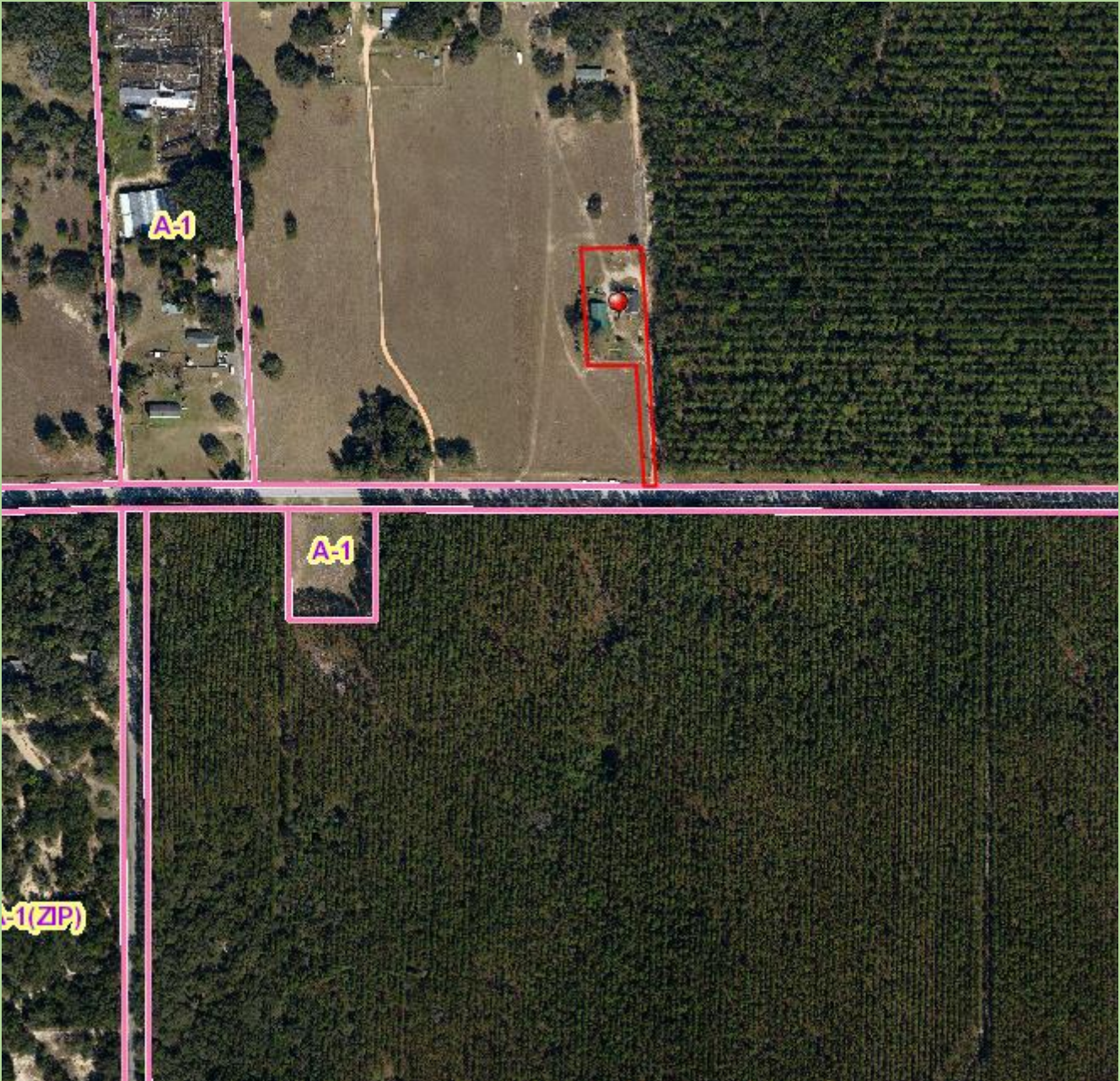


### ADJACENT ZONING





### ADJACENT USES





**EXISTING  
USES**



**Backup material for agenda item:**

3. Ordinance 2478 – Second Reading – 2016-1 Administrative Rezoning - Quasi-Judicial David Moon



# CITY OF APOPKA CITY COUNCIL

- \_\_\_ CONSENT AGENDA
- \_\_\_ PUBLIC HEARING
- \_\_\_ SPECIAL REPORTS
- \_\_\_ OTHER:

MEETING OF: April 20, 2016  
 FROM: Community Development  
 EXHIBITS: A-1 Spreadsheet  
 A-2 Spreadsheet  
 Ordinance No. 2478  
 Zoning Reports

**SUBJECT:** 2016-1 ADMINISTRATIVE REZONING FROM “COUNTY” A-1 (ZIP) & C-1 (ZIP) TO “CITY” PO/I (PROFESSIONAL OFFICE/INSTITUTIONAL)

**REQUEST:** SECOND READING & ADOPTION OF ORDINANCE NO. 2478 – 2016 ADMINISTRATIVE REZONING; FROM “COUNTY” A-1 (ZIP) & C-1 (ZIP) TO “CITY” PO/I (PROFESSIONAL OFFICE/INSTITUTIONAL).

**SUMMARY:**

The two (2) parcels, comprising a total of 19.35 +/- acres, have been annexed into the City of Apopka and have been assigned Future Land Use designations compatible with the proposed PO/I zoning designation. The subject properties currently have a City Future Land Use Designation of Institutional/Public Use (INST/PU) and a county zoning category of A-1 or C-1 assigned to it. A summary of the zoning case is provided in Exhibits “A” and “B”.

A brief summary of the administrative rezoning case:

<u>C-1 Properties</u>		<u>A-1 Properties</u>	
# of Parcels:	1	# of Parcels:	1
# of Property Owners:	1	# of Property Owners:	1
Acreage:	11.33 +/- acres	Acreage:	8.02 +/- acres

The attached exhibits provide a summary of the proposed zoning amendments. The property owners have been notified via certified mail that a zoning category comparable to the County designation will be assigned to their property. Individual zoning reports have been prepared for the zoning cases. The zoning reports are provided in Exhibit “C”.

Pursuant to the Interlocal Agreement between the City and Orange County (2004), policy of the City’s Comprehensive Plan (Policy 3.9) and State law (s 163.3202, F.S.), the City is required to assign a zoning category to lands that are annexed into the City’s jurisdiction. To comply with these requirements, city staff is recommending that the City assign a zoning category that is most compatible to the current zoning category that was assigned by Orange County.

**FUNDING SOURCE:** Not Applicable.

**DISTRIBUTION**

Mayor Kilsheimer  
 Commissioners  
 City Administrator  
 Community Development Director

Finance Director  
 HR Director  
 IT Director  
 Police Chief

Public Services Director  
 Recreation Director  
 City Clerk  
 Fire Chief



**SCHOOL CAPACITY REPORT:** The proposed zoning district is non-residential and, therefore, a school capacity enhancement agreement is not necessary.

**ORANGE COUNTY NOTIFICATION:** The JPA requires the City to notify the County 30 days before any public hearing or advisory board. The City notified Orange County on February 5, 2016.

**PUBLIC HEARING SCHEDULE:**

March 8, 2016 – Planning Commission (5:30 pm)  
April 6, 2016 – City Council (1:30 pm) – 1st Reading  
April 20, 2016 – City Council (8:00 pm) – 2<sup>nd</sup> Reading

**DULY ADVERTISED:**

February 19, 2016 – Public Notice and Notification  
April 8, 2016 – Ordinance Heading Ad

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**RECOMMENDATION ACTION:**

The **Development Review Committee** recommends approval of the change in Zoning from “County” A-1 (ZIP) & C-1 (ZIP) to “City” PO/I (Professional Office/Institution) as set forth in Exhibits “A” and “B” for the property described therein.

The **Planning Commission**, at its meeting on March 8, 2016, recommended approval (5-0) of the change in Zoning from “County” A-1 (ZIP) & C-1 (ZIP) to “City” PO/I (Professional Office/Institution) as set forth in Exhibits “A” and “B” for the property described therein.

The **City Council**, at its meeting on April 6, 2016, accepted the First Reading of Ordinance No. 2478 and held it over for Second Reading and Adoption on April 20, 2016.

Adopt Ordinance No. 2478.

**Note: This item is considered Quasi-Judicial. The staff report and its findings are to be incorporated into and made a part of the minutes of this meeting.**

**EXHIBIT "A"**  
**2016-1 ADMINISTRATIVE REZONING**  
**FROM "COUNTY" C-1 to "CITY" PO/I**

<b>Case #</b>	<b>Parcel ID</b>	<b>Property Owner</b>	<b>Acreage +/-</b>	<b>Future Land Use</b>	<b>Current Zoning</b>	<b>Proposed Zoning</b>
2016-1-6	14-21-28-0000-00-076	Trinity Baptist Church of Apopka, Inc.	11.33	INST/PU	C-1 (ZIP)	PO/I

**EXHIBIT "B"**  
**2016-1 ADMINISTRATIVE REZONING**  
**FROM "COUNTY" A-1 TO "CITY" PO/I**

<b>Case #</b>	<b>Parcel ID</b>	<b>Property Owner</b>	<b>Acreage +/-</b>	<b>Future Land Use</b>	<b>Current Zoning</b>	<b>Proposed Zoning</b>
2016-1-7	29-20-28-0000-00-015	City of Apopka	8.02	INST/PU	A-1 (ZIP)	PO/I

**ORDINANCE NO. 2478**

**AN ORDINANCE OF THE CITY OF APOPKA, FLORIDA, CHANGING THE ZONING FROM “COUNTY” C-1 (ZIP) AND A-1 (ZIP) TO “CITY” PO/I (PROFESSIONAL OFFICE/INSTITUTIONAL) FOR CERTAIN REAL PROPERTIES GENERALLY LOCATED WITHIN THE CITY LIMITS OF APOPKA, COMPRISING 19.35 ACRES, MORE OR LESS, AND OWNED BY TRINITY BAPTIST CHURCH OF APOPKA, INC.; AND THE CITY OF APOPKA; PROVIDING FOR DIRECTIONS TO THE COMMUNITY DEVELOPMENT DIRECTOR, SEVERABILITY, CONFLICTS, AND AN EFFECTIVE DATE.**

**WHEREAS**, to manage the growth, the City of Apopka, Florida, finds it in the best interest of the public health, safety and welfare of its citizens to establish zoning classifications within the City; and

**WHEREAS**, the City of Apopka Community Development Department, has requested an administrative change in zoning on said property as identified in Section I of this ordinance; and

**WHEREAS**, Pursuant to the Interlocal Agreement between the City and Orange County (2004), policy of the City’s Comprehensive Plan Future Land Use Element (Policy 3.9), and State law (s 163.3202, F.S.), the City is required to assign a zoning category to lands that are annexed into the City’s jurisdiction; and

**WHEREAS**, the proposed PO/I zoning has been found to be consistent with the City of Apopka Comprehensive Plan, and the City of Apopka Land Development Code.

**NOW THEREFORE, BE IT ORDAINED**, by the City Council of the City of Apopka, Florida, as follows:

**Section I.** That the zoning classification of the following described properties, being situated in the City of Apopka, Florida, is hereby PO/I as defined in the Apopka Land Development Code:

<b>Parcel ID</b>	<b>Property Owner</b>	<b>Acreage +/-</b>	<b>Land Use</b>	<b>Current Zoning</b>	<b>Proposed Zoning</b>
14-21-28-0000-00-076	Trinity Baptist Church of Apopka, Inc.	11.33	INST/PU	C-1 (ZIP)	PO/I
29-20-28-0000-00-015	City of Apopka	8.02	INST/PU	A-1 (ZIP)	PO/I

**Section II.** That the zoning classification is consistent with the Comprehensive Plan of the City of Apopka, Florida.

**Section III.** That the Community Development Director, or the Director’s designee, is hereby authorized to amend, alter, and implement the official zoning maps of the City of Apopka, Florida, to include said designation.

**Section IV.** That if any section or portion of a section or subsection of this Ordinance proves to be invalid, unlawful, or unconstitutional, it shall not be held to invalidate or impair the validity, force or effect of any other section or portion of section or subsection or part of this ordinance.

**Section V.** That all ordinances or parts of ordinances in conflict herewith are hereby repealed.

**Section VI.** That this Ordinance shall take effect upon the date of adoption.

READ FIRST TIME: April 6, 2016

READ SECOND TIME  
AND ADOPTION: April 20, 2016

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Joseph E. Kilsheimer, Mayor

ATTEST:

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Linda Goff, City Clerk

DULY ADVERTISED: February 19, 2016  
April 8, 2016



# CITY OF APOPKA CITY COUNCIL

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<input checked="" type="checkbox"/> PUBLIC HEARING	DATE:	April 20, 2016
<input type="checkbox"/> ANNEXATION	FROM:	Community Development
<input type="checkbox"/> PLAT APPROVAL	EXHIBITS:	Zoning Report
<input type="checkbox"/> OTHER:		Vicinity Map
		Adjacent Zoning Map
		Adjacent Uses Map
		Existing Uses

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**SUBJECT:** TRINITY BAPTIST CHURCH OF APOPKA, INC. (CASE # 2016-1-6)

**PARCEL ID NUMBER:** 14-21-28-0000-00-076

**Request:** ADMINISTRATIVE REZONING  
FROM: "COUNTY" C-1 (ZIP) (COMMERCIAL)  
TO: "CITY" PO/I (PROFESSIONAL OFFICE/INSTITUTIONAL)

**SUMMARY**

OWNER: Trinity Baptist Church of Apopka, Inc.

APPLICANT: City of Apopka

LOCATION: South of S. Orange Blossom Trail, west of Roger Williams Road

EXISTING USE: Church and School

FUTURE LAND USE: Institutional/Public Use

ZONING: C-1 (ZIP)

PROPOSED DEVELOPMENT: Church and School (existing)

PROPOSED ZONING: PO/I

TRACT SIZE: 11.33 +/- Acres

MAXIMUM ALLOWABLE DEVELOPMENT: EXISTING ZONING: 1 Residential Unit  
PROPOSED ZONING: 147,929 sq. ft.

**DISTRIBUTION**

Mayor Kilsheimer	Finance Director	Public Ser. Director
Commissioners (4)	HR Director	City Clerk
City Administrator Irby	IT Director	Fire Chief
Community Dev. Director	Police Chief	

**ADDITIONAL COMMENTS:** Policy 3.9 of the Apopka Comprehensive Plan 2030 requires that a “city” zoning classification be assigned to annexed properties. The subject property was annexed into the City of Apopka on April 2, 2003, through the adoption of Ordinance No. 1588. Staff is requesting an administrative rezoning for the subject properties to comply with the policy set forth in the Comprehensive Plan. The proposed city zoning category is comparable to the densities and intensities and uses allowed under the existing “county” zoning classification, and the proposed zoning change is compatible with the character of the surrounding area.

The subject site is surrounded by vacant PO/I-zoned property to the east, commercial development and zoning to the north and adjacent to a mobile home park to the south. The proposed PO/I zoning district would provide a transitional zoning between the commercial zoning districts and the mobile home residential development. The existing and proposed use for the subject site is for a church and school, which is permitted within the PO/I zoning district and compatible with surrounding uses.

Staff has analyzed the proposed amendment and determined that adequate public facilities exist to support this zoning change (see attached Zoning Report).

**COMPREHENSIVE PLAN COMPLIANCE:** The proposed zoning classification is consistent with the Future Land Use Designation assigned to the property.

**SCHOOL CAPACITY REPORT:** The request of the proposed rezoning is for a non-residential zoning classification and, therefore, a school capacity enhancement agreement with OCPS is not necessary.

**JOINT PLANNING AREA/OVERLAY:** The subject property is located within the “Core Area” of the Joint Planning Area with Orange County. The subject property is not located within any other city overall or protection area.

**ORANGE COUNTY NOTIFICATION:** The JPA requires the City to notify the County 30 days before any public hearing or advisory board. The City properly notified Orange County on January 8, 2016.

**PROPERTY OWNER NOTIFICATION:** The property owner was notified of this administrative rezoning and public hearing dates at least thirty (30) days prior to the adoption public hearing.

**PUBLIC HEARING SCHEDULE:**

March 8, 2016 – Planning Commission (5:30 pm)  
April 6, 2016 - City Council (1:30 pm) - 1st Reading  
April 20, 2016 – City Council (7:00 pm) - 2nd Reading

**DULY ADVERTISED:**

February 19, 2016 – Public Hearing Notice Ad  
April 8, 2016 – Ordinance Heading Ad

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**RECOMMENDED ACTION:**

The **Development Review Committee** recommends approval of the change in Zoning from “County” C-1 (ZIP) to “City” PO/I for the property owned by Trinity Baptist Church of Apopka, Inc.

The **Planning Commission**, at its meeting on March 8, 2016, recommended approval (5-0) of the change in Zoning from “County” A-1 and “County” C-1 to “City” PO/I as set forth in Exhibits “A” and “B” for the property described therein for the property owned by Trinity Baptist Church of Apopka, Inc.

The **City Council**, at its meeting on April 6, 2016, accepted the First Reading of Ordinance No. 2478 and held it over for Second Reading and Adoption on April 20, 2016.

Adopt Ordinance No. 2478.

**Note: This item is considered Quasi-Judicial. The staff report and its findings are to be incorporated into and made a part of the minutes of this meeting.**



**ZONING REPORT**

**RELATIONSHIP TO ADJACENT PROPERTIES:**

<i>Direction</i>	<i>Future Land Use</i>	<i>Zoning</i>	<i>Present Use</i>
North (City)	Commercial	C-1	Retail and vacant commercial
East (County) East (City)	“County” Commercial “City” Institutional/Public Use	C-2 PO/I	Retail & Vacant office
South (City)	Residential Low (0-5 du/ac)	MHP	Mobile home park
West (City)	Residential Low (0-5 du/ac)	R-1	Single-family home

**LAND USE &**

**TRAFFIC COMPATIBILITY:** The subject property fronts and is accessed by a major collector (S Orange Blossom Trail).

**COMPREHENSIVE  
 PLAN COMPLIANCE:**

The proposed PO/I zoning is consistent with the City’s Institutional/Public Use Future Land Use designation and with the character of the surrounding area and future proposed development. The PO/I zoning classification is one of the acceptable zoning categories allowed within the Institutional/Public Use Future Land Use category. Development Plans shall not exceed the density allowed in the adopted Future Land Use Designation.

**PO/I DISTRICT  
 REQUIREMENTS:**

- Minimum Living Area: NA
- Minimum Site Area: 10,000 sq. ft.
- Minimum Lot Width: 85 ft.
- Setbacks: Front: 25 ft.
- Rear: 10 ft. (25 ft. from Residential)
- Side: 10 ft.
- Corner: 25 ft.

Based on the above zoning standards, the subject site complies with code requirements for the PO/I district.

**BUFFERYARD  
 REQUIREMENTS:**

Areas adjacent to all road rights-of-way shall provide a minimum ten-foot landscaped bufferyard. Areas adjacent to agricultural and residential uses or districts shall provide a minimum six-foot-high masonry wall within a ten-foot landscaped bufferyard. Areas adjacent to nonresidential uses or districts shall provide a minimum of five-foot landscaped bufferyard. Landscaping requirements for existing platted lots of record and structures may be approved in a lesser amount than required after review by the development review committee.

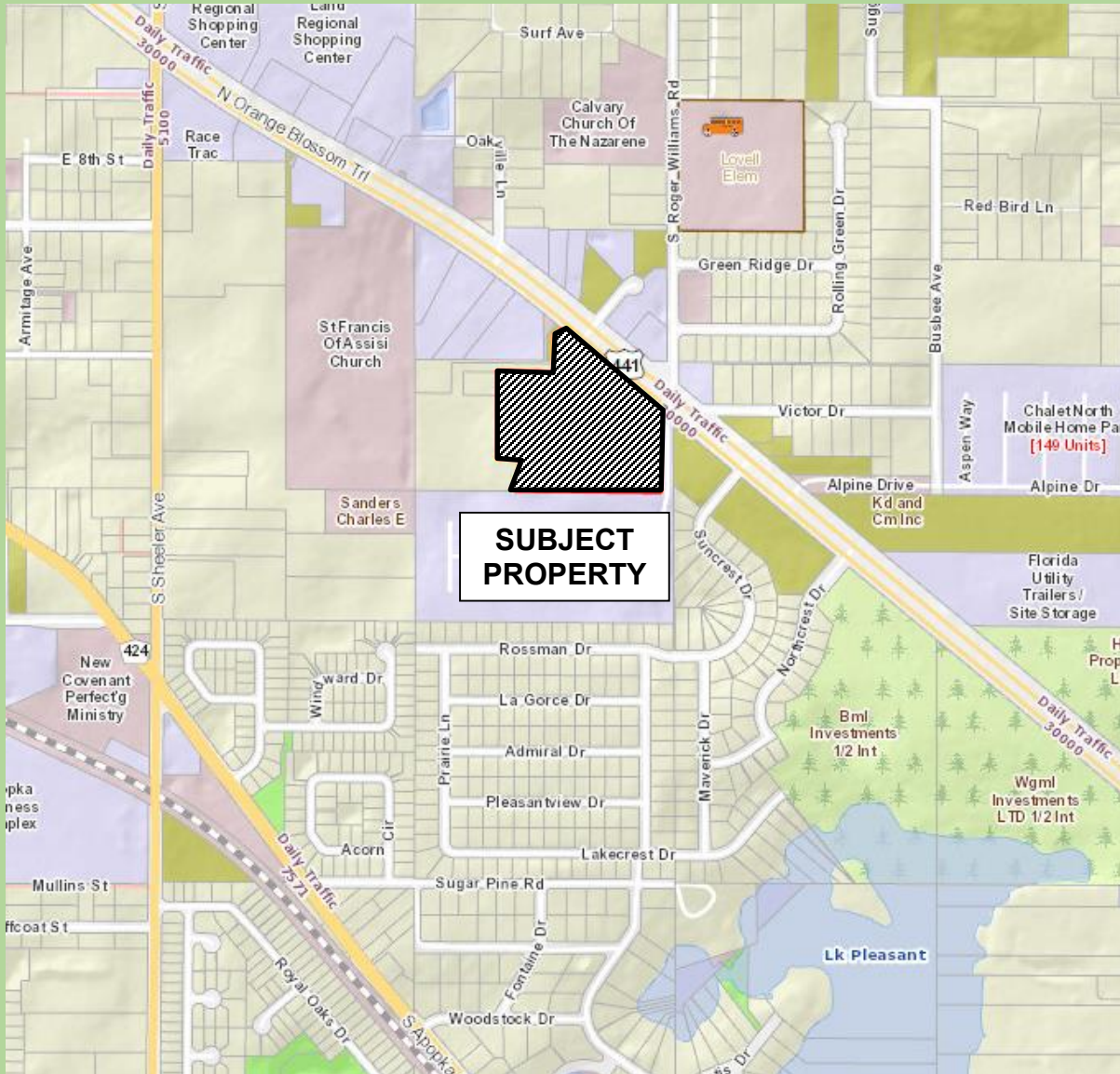
**ALLOWABLE USES:**

Professional offices, including those of architects, engineers, lawyers, accountants, tax and financial services or consultants, bookkeepers, realtors and brokers, insurance, investment counselors, travel agencies, etc. Medical or dental clinics and offices. Churches and attendant educational facilities, educational facilities and day nurseries, public and private utilities, supporting infrastructure and public facilities. Other uses which are similar and compatible to the uses permitted herein which adhere to the intent of the district.



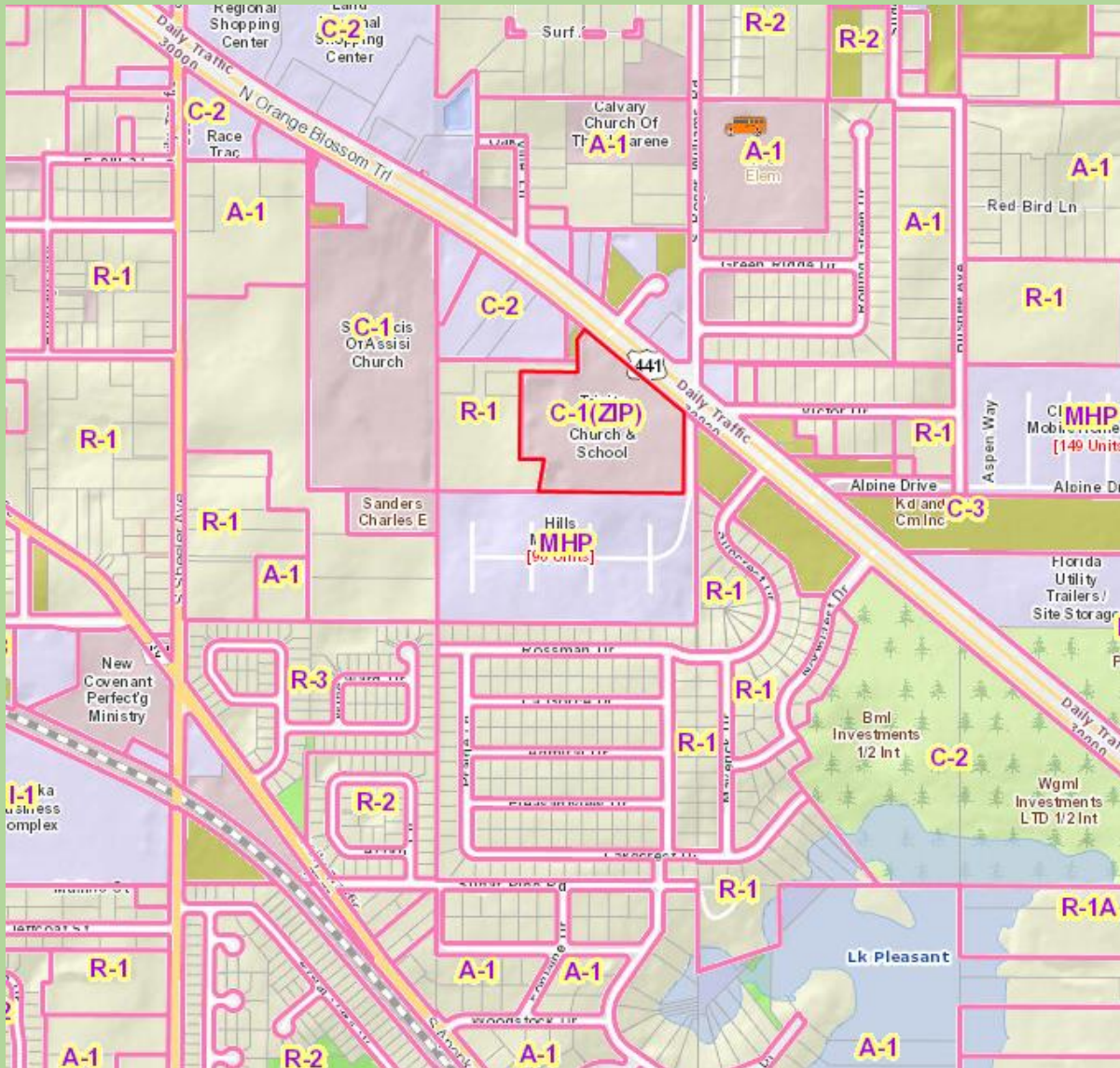
**Trinity Baptist Church**  
**11.33 +/- Acres**  
**Proposed Zoning Change:**  
**From: “County” C-1 (ZIP) (Agriculture) (21,780 sq. ft. min. lot)**  
**To: “City” PO/I (Professional Office/Institutional) (10,000 sq. ft. min. lot)**  
**Parcel ID #: 14-21-28-0000-00-076**

**VICINITY MAP**



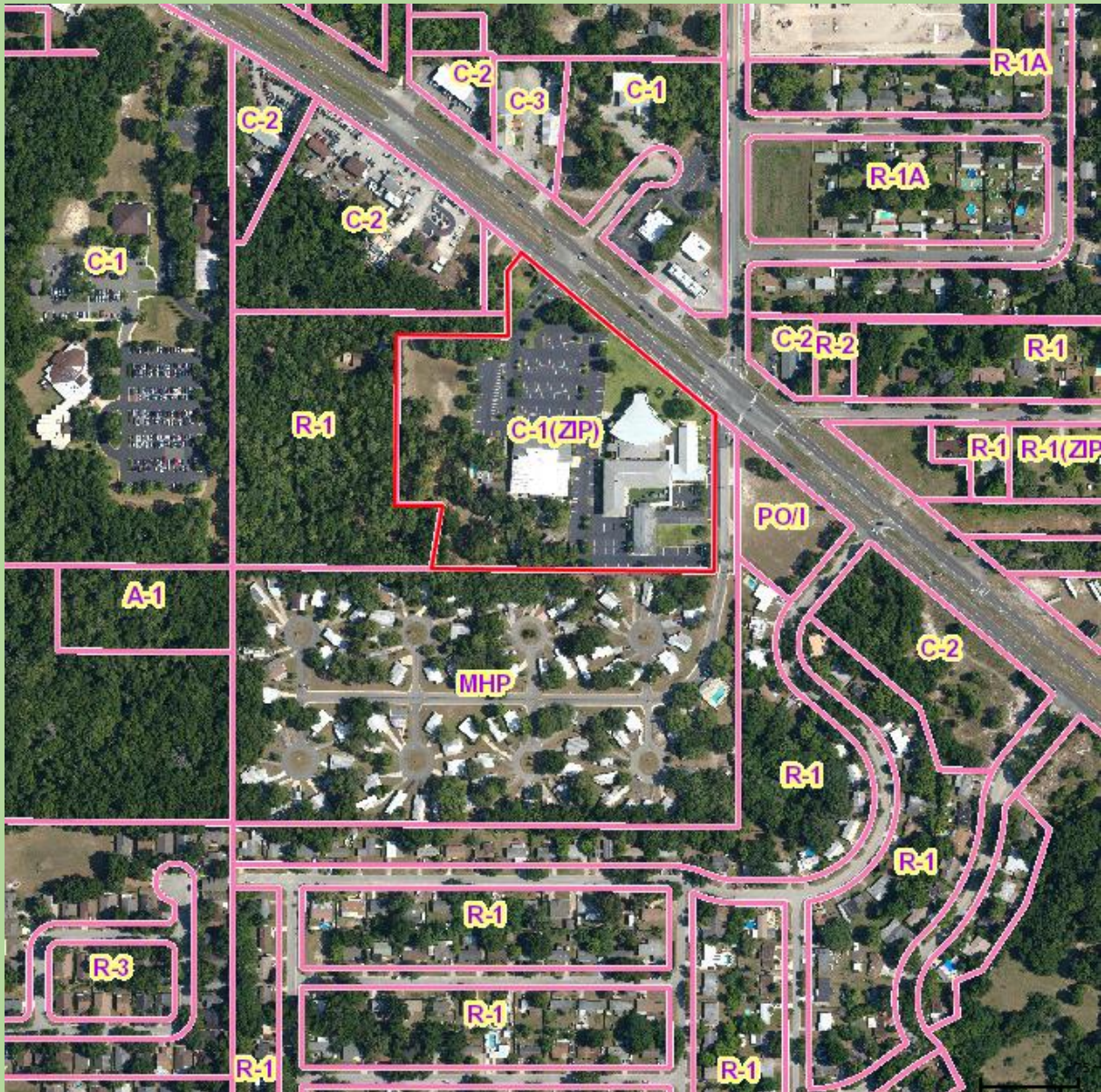


### ADJACENT ZONING



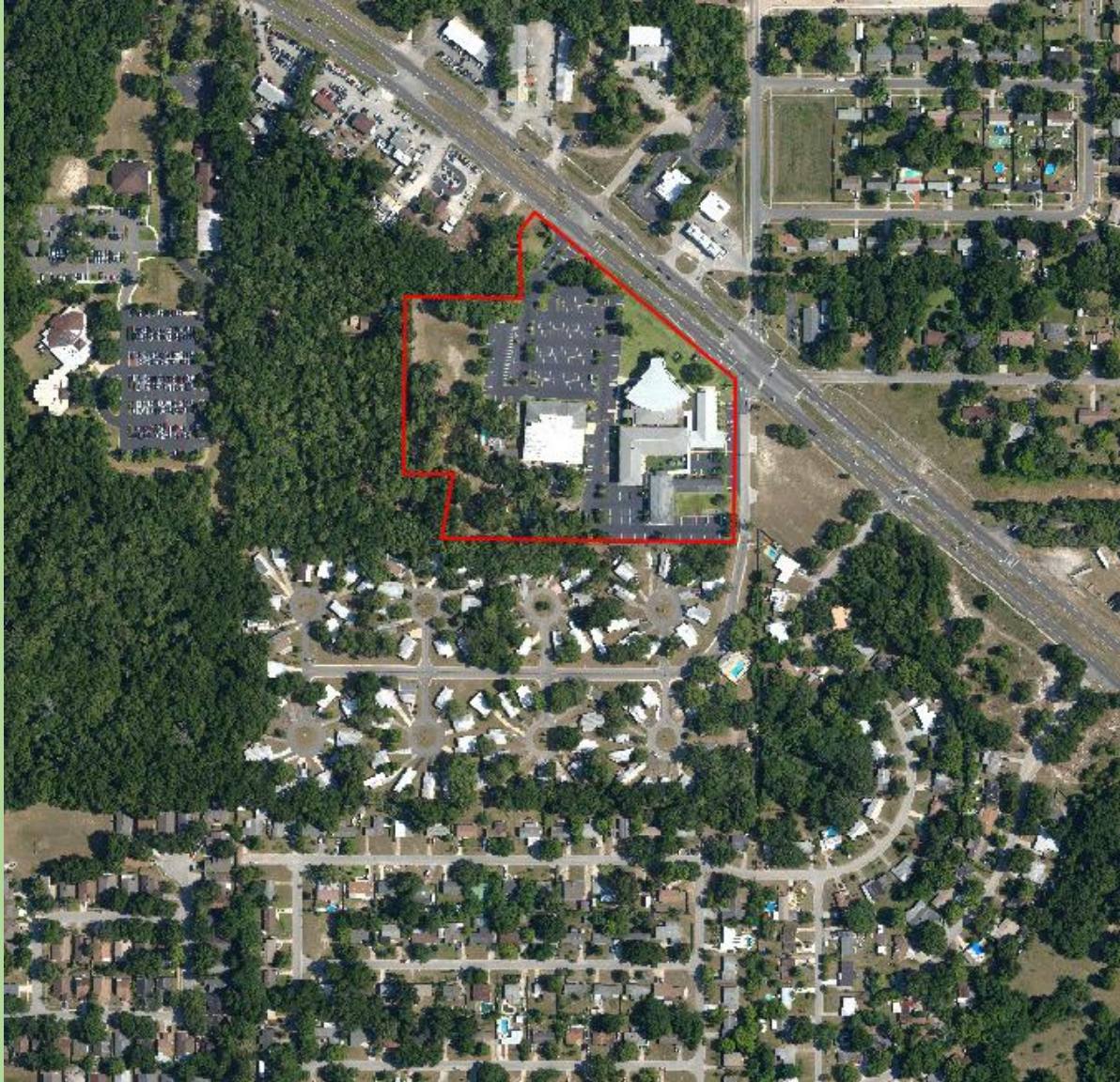


ADJACENT USES





**EXISTING  
USES**





# CITY OF APOPKA CITY COUNCIL

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<input checked="" type="checkbox"/> PUBLIC HEARING	DATE:	April 20, 2016
<input type="checkbox"/> ANNEXATION	FROM:	Community Development
<input type="checkbox"/> PLAT APPROVAL	EXHIBITS:	Zoning Report
<input type="checkbox"/> OTHER:		Vicinity Map
		Adjacent Zoning Map
		Adjacent Uses Map
		Existing Uses

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**SUBJECT:** CITY OF APOPKA (Case # 2016-1-7)

**PARCEL ID NUMBER:** 29-20-28-0000-00-015

**Request:** ADMINISTRATIVE REZONING  
FROM: "COUNTY" A-1 (ZIP) (AGRICULTURE)  
TO: "CITY" PO/I (PROFESSIONAL OFFICE/INSTITUTIONAL)

**SUMMARY**

OWNER/APPLICANT: City of Apopka

LOCATION: West of Vick Road, north of W. Lester Road

EXISTING USE: Vacant

FUTURE LAND USE: Institutional/Public Use

ZONING: A-1 (ZIP)

PROPOSED DEVELOPMENT: Vacant (existing)

PROPOSED ZONING: PO/I

TRACT SIZE: 8.02 +/- Acres

MAXIMUM ALLOWABLE DEVELOPMENT: EXISTING ZONING: 1 Residential Unit  
PROPOSED ZONING: 104,805 sq. ft.

**DISTRIBUTION**

Mayor Kilsheimer	Finance Director	Public Ser. Director
Commissioners (4)	HR Director	City Clerk
City Administrator Irby	IT Director	Fire Chief
Community Dev. Director	Police Chief	

**ADDITIONAL COMMENTS:** Policy 3.9 of the Apopka Comprehensive Plan 2030 requires that a “city” zoning classification be assigned to annexed properties. The subject property was annexed into the City of Apopka on December 1, 2004, through the adoption of Ordinance No. 1701. Staff is requesting an administrative rezoning for the subject properties to comply with the policy set forth in the Comprehensive Plan. The proposed city zoning category is comparable to the densities and intensities and uses allowed under the existing “county” zoning classification, and the proposed zoning change is compatible with the character of the surrounding area.

The existing and proposed used for the site is that of a city-owned lift station and utilities, which is permitted within the PO/I zoning district, and is consistent with the surrounding use of single-family residential which abuts the property to the north and west, as well as the “County” A-1 zoning and vacant land to the east of the subject site.

Staff has analyzed the proposed amendment and determined that adequate public facilities exist to support this zoning change (see attached Zoning Report).

**COMPREHENSIVE PLAN COMPLIANCE:** The proposed zoning classification is consistent with the Future Land Use Designation assigned to the property.

**SCHOOL CAPACITY REPORT:** The request of the proposed rezoning is for a non-residential zoning classification and, therefore, a school capacity enhancement agreement with OCPS is not necessary.

**JOINT PLANNING AREA/OVERLAY:** The subject properties are located within the “Core Area” of the Joint Planning Area with Orange County. The subject properties are not located within any other city overall or protection area.

**ORANGE COUNTY NOTIFICATION:** The JPA requires the City to notify the County 30 days before any public hearing or advisory board. The City properly notified Orange County on February 5, 2016.

**PROPERTY OWNER NOTIFICATION:** The property owner was notified of this administrative rezoning and public hearing dates at least thirty (30) days prior to the adoption public hearing.

**PUBLIC HEARING SCHEDULE:**

March 8, 2016 – Planning Commission (5:30 pm)  
April 6, 2016 - City Council (1:30 pm) - 1st Reading  
April 20, 2016 – City Council (7:00 pm) - 2nd Reading

**DULY ADVERTISED:**

February 19, 2016 – Public Hearing Notice Ad  
April 8, 2016 – Ordinance Heading Ad

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**RECOMMENDED ACTION:**

The **Development Review Committee** recommends approval of the change in Zoning from “County” A-1 (ZIP) to “City” PO/I for the property owned by the City of Apopka.

The **Planning Commission**, at its meeting on March 8, 2016, recommended approval (5-0) of the change in Zoning from “County” A-1 and “County” C-1 to “City” PO/I as set forth in Exhibits “A” and “B” for the property described therein and owned by the City of Apopka.

The **City Council**, at its meeting on April 6, 2016, accepted the First Reading of Ordinance No. 2478 and held it over for Second Reading and Adoption on April 20, 2016.

Adopt Ordinance No. 2478.

**Note: This item is considered Quasi-Judicial. The staff report and its findings are to be incorporated into and made a part of the minutes of this meeting.**



**ZONING REPORT**

**RELATIONSHIP TO ADJACENT PROPERTIES:**

<i>Direction</i>	<i>Future Land Use</i>	<i>Zoning</i>	<i>Present Use</i>
North (City)	Residential Low Suburban (0 – 3.5 du/ac)	R-1AA	Single-family residential (Spring Ridge subdivision)
East (County)	Rural (0 – 1 du/10 acres)	A-1	Grazing
South (City)	Residential Low (0-5 du/ac)	PUD	Single-family residential (Spring Ridge subdivision)
South (City)	Residential Low (0-5 du/ac)	PUD	Single-family residential (Spring Ridge subdivision)

**LAND USE &**

**TRAFFIC COMPATIBILITY:** The subject property fronts and is accessed by a local roadway (Vick Road).

**COMPREHENSIVE  
 PLAN COMPLIANCE:**

The proposed PO/I zoning is consistent with the City’s Institutional/Public Use Future Land Use designation and with the character of the surrounding area and future proposed development. The PO/I zoning classification is one of the acceptable zoning categories allowed within the Institutional/Public Use Future Land Use category. Development Plans shall not exceed the density allowed in the adopted Future Land Use Designation.

**PO/I DISTRICT  
 REQUIREMENTS:**

- Minimum Living Area: NA
- Minimum Site Area: 10,000 sq. ft.
- Minimum Lot Width: 85 ft.
- Setbacks: Front: 25 ft.
- Rear: 10 ft. (25 ft. from Residential)
- Side: 10 ft.
- Corner: 25 ft.

Based on the above zoning standards, the subject site complies with code requirements for the PO/I district.

**BUFFERYARD  
 REQUIREMENTS:**

Areas adjacent to all road rights-of-way shall provide a minimum ten-foot landscaped bufferyard. Areas adjacent to agricultural and residential uses or districts shall provide a minimum six-foot-high masonry wall within a ten-foot landscaped bufferyard. Areas adjacent to nonresidential uses or districts shall provide a minimum of five-foot landscaped bufferyard. Landscaping requirements for existing platted lots of record and structures may be approved in a lesser amount than required after review by the development review committee.

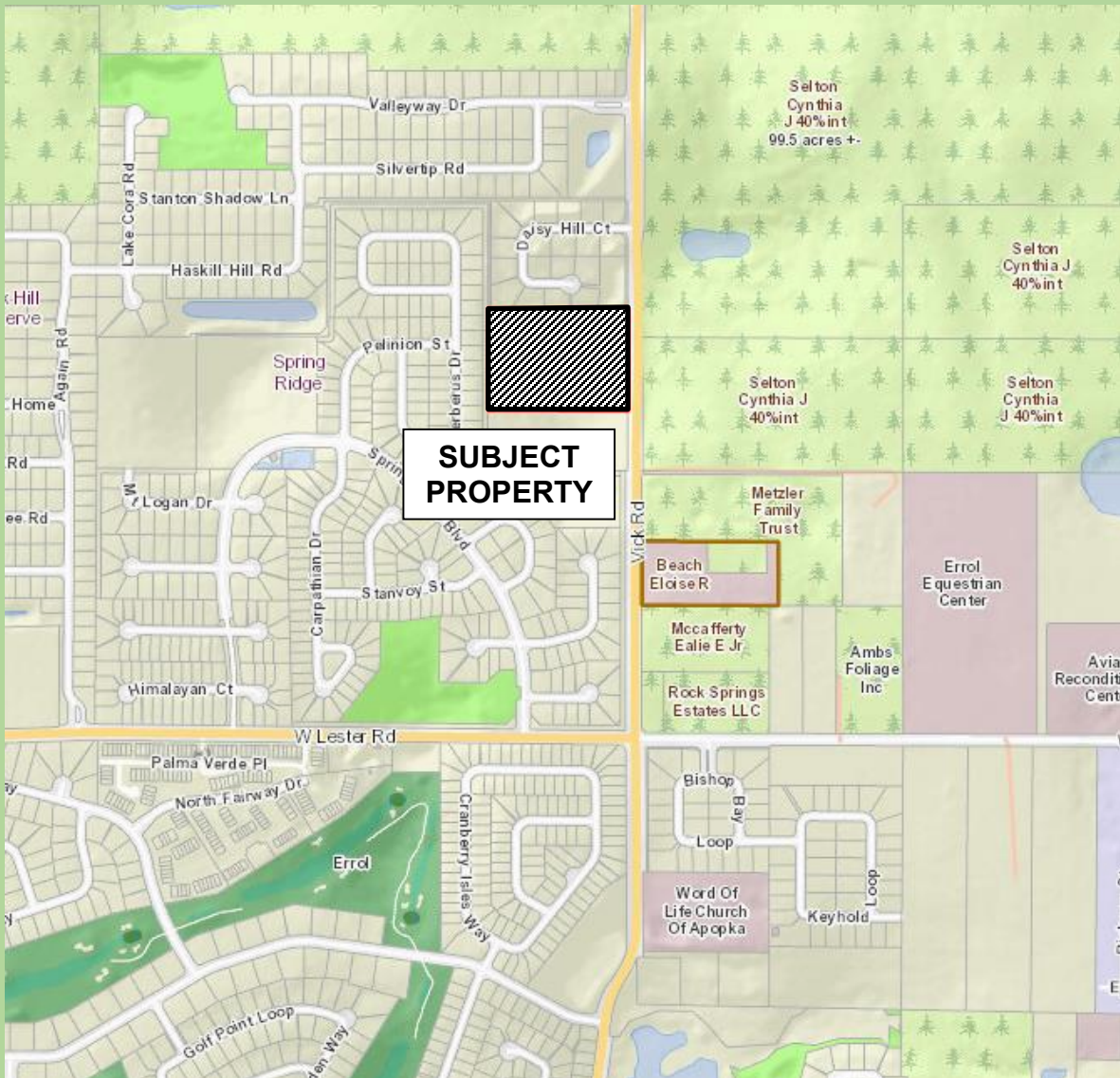
**ALLOWABLE USES:**

Professional offices, including those of architects, engineers, lawyers, accountants, tax and financial services or consultants, bookkeepers, realtors and brokers, insurance, investment counselors, travel agencies, etc. Medical or dental clinics and offices. Churches and attendant educational facilities, educational facilities and day nurseries, public and private utilities, supporting infrastructure and public facilities. Other uses which are similar and compatible to the uses permitted herein which adhere to the intent of the district.



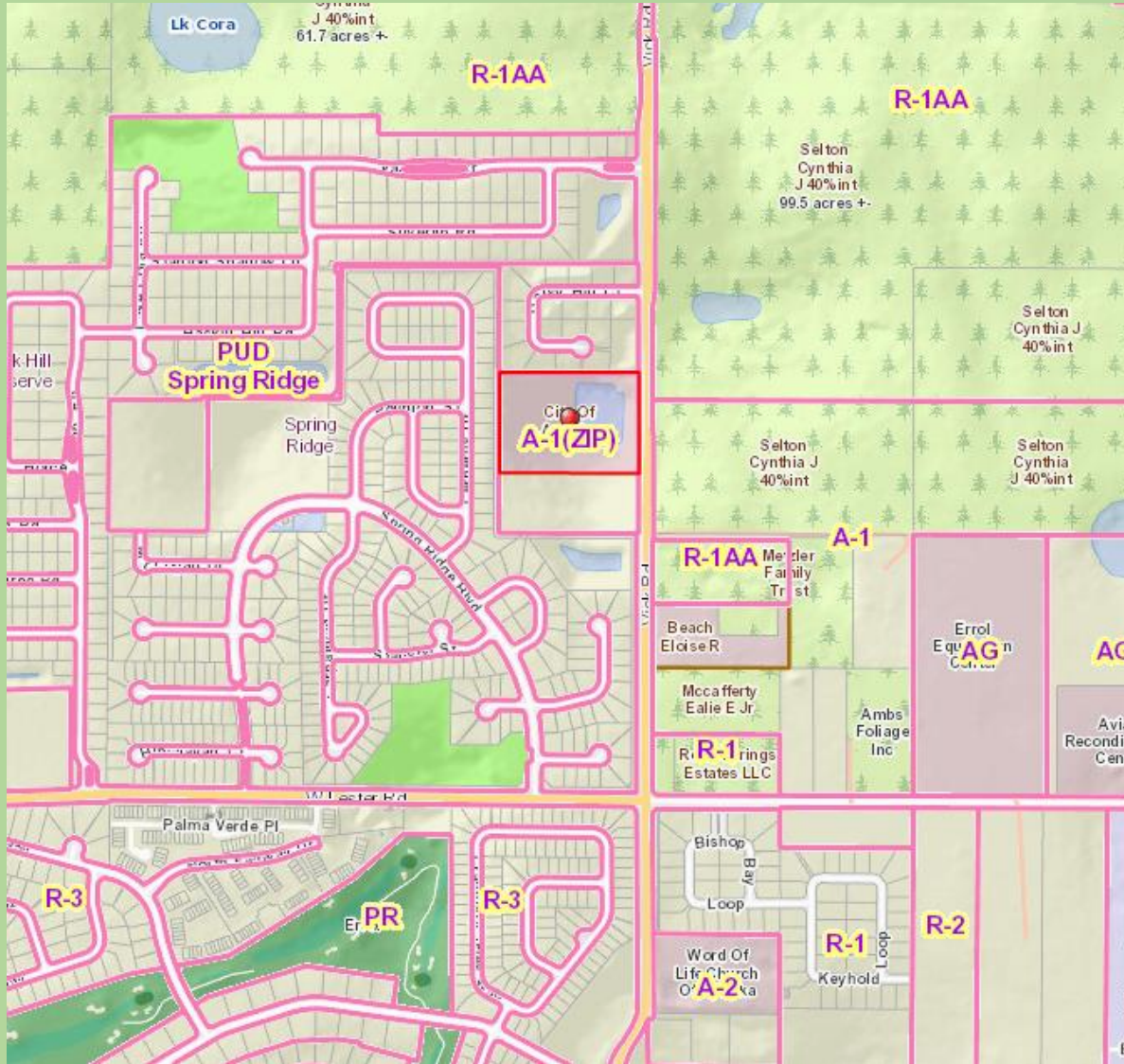
**City of Apopka**  
**8.02 +/- Acres**  
**Proposed Zoning Change:**  
**From: “County” A-1 (ZIP) (Agriculture) (21,780 sq. ft. min. lot)**  
**To: “County” PO/I (Professional Office/Institutional) (10,000 sq. ft. min. lot)**  
**Parcel ID #: 29-20-28-0000-00-015**

**VICINITY MAP**



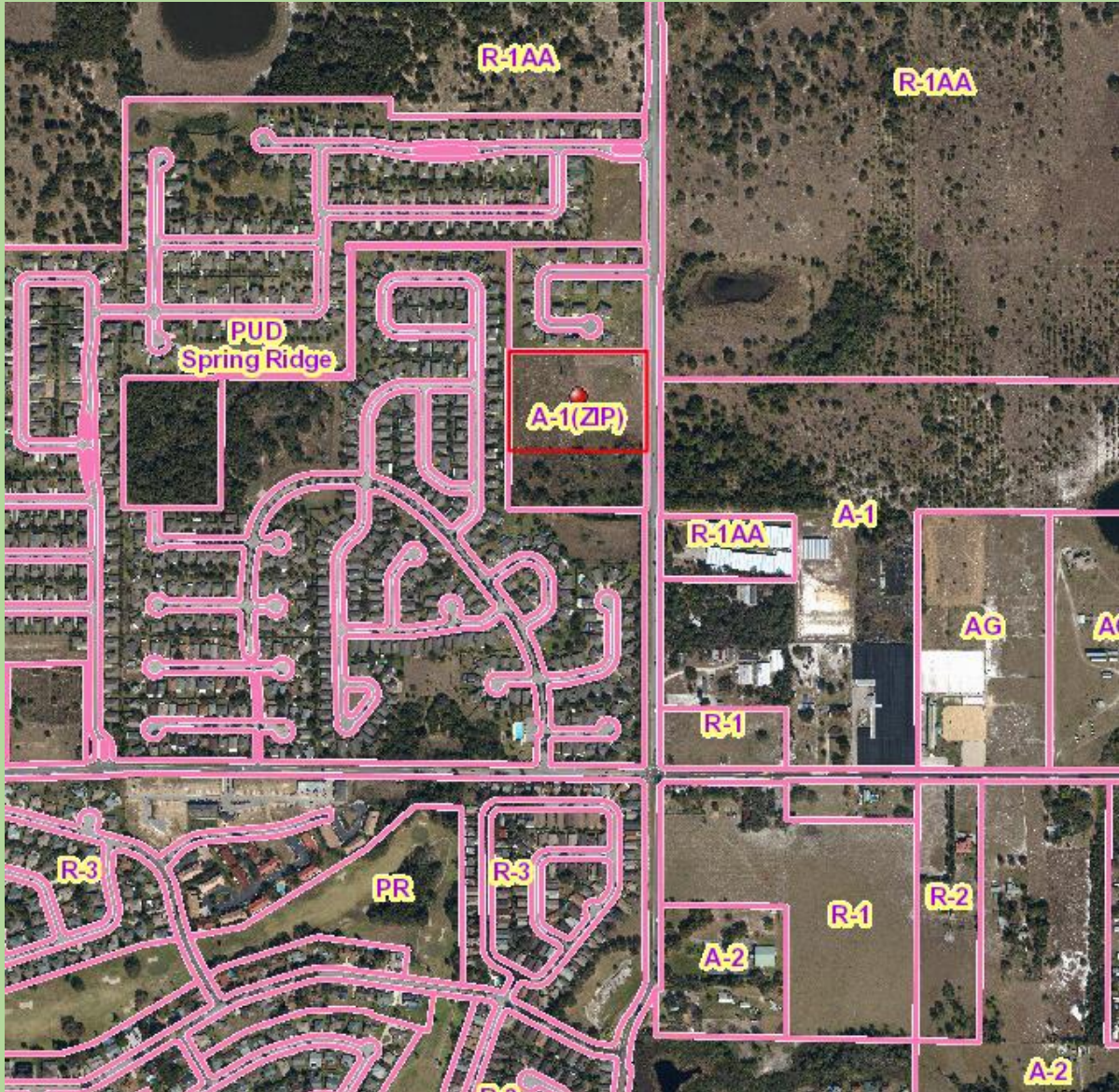


### ADJACENT ZONING



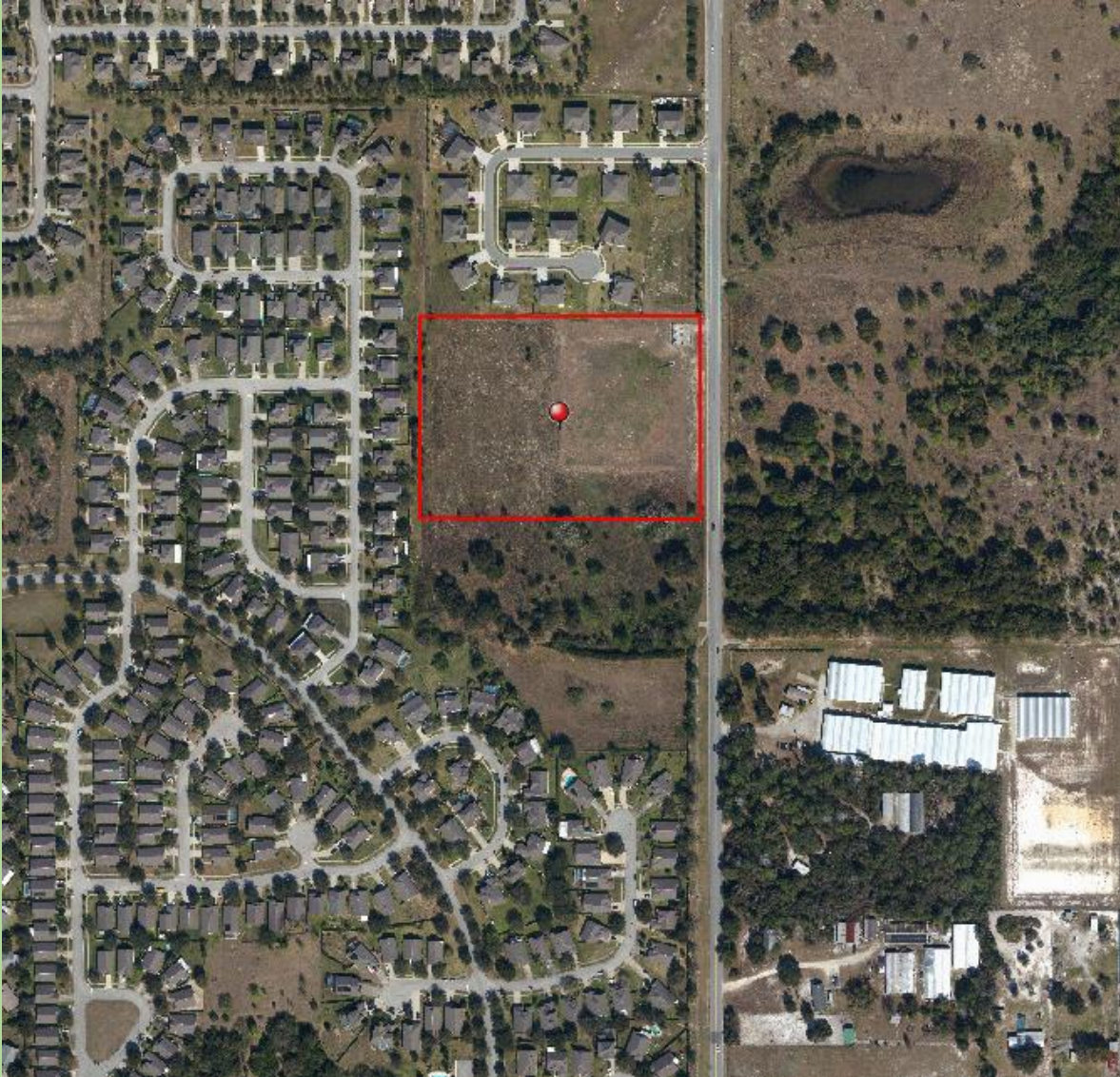


### ADJACENT USES





**EXISTING  
USES**



**Backup material for agenda item:**

4. Ordinance 2479 – Second Reading – 2016-1 Administrative Rezoning - Quasi-Judicial David Moon



# CITY OF APOPKA CITY COUNCIL

___ CONSENT AGENDA	MEETING OF: April 20, 2016
___ PUBLIC HEARING	FROM: Community Development
___ SPECIAL REPORTS	EXHIBITS: C-3 Spreadsheet
___ OTHER:	Ordinance No. 2479
	Zoning Reports

**SUBJECT: 2016-1 ADMINISTRATIVE REZONING - FROM “COUNTY” C-3 (ZIP) TO “CITY” C-1 (RETAIL COMMERCIAL)**

**REQUEST: SECOND READING & ADOPTION OF ORDINANCE NO. 2479 – 2016 ADMINISTRATIVE REZONING; FROM “COUNTY” C-3 (ZIP) TO “CITY” C-1 (RETAIL COMMERCIAL).**

**SUMMARY:**

The three (3) parcels, comprising a total of 3.32 +/- acres, have been annexed into the City of Apopka and have been assigned Future Land Use designations compatible with the proposed C-1 zoning designation. The subject properties currently have a City Future Land Use Designation of Commercial (COMM) and a County zoning category of C-3 assigned to it. A summary of the zoning cases are provided in Exhibit “A”.

A brief summary of the administrative rezoning cases:

<u>C-3 Properties</u>	
# of Parcels:	3
# of Property Owners:	2
Acreage:	3.32 +/- acres

The attached exhibits provide a summary of the proposed zoning amendments. The property owners have been notified via certified mail that a zoning category comparable to the County designation will be assigned to their property. Individual zoning reports have been prepared for the zoning cases. The zoning reports are provided in Exhibit “B”.

Pursuant to the Interlocal Agreement between the City and Orange County (2004), policy of the City’s Comprehensive Plan (Policy 3.9) and State law (s 163.3202, F.S.), the City is required to assign a zoning category to lands that are annexed into the City’s jurisdiction. To comply with these requirements, city staff is recommending that the City assign a zoning category that is most compatible to the current zoning category that was assigned by Orange County.

**FUNDING SOURCE:** Not Applicable.

**DISTRIBUTION**

Mayor Kilsheimer	Finance Director	Public Services Director
Commissioners	HR Director	Recreation Director
City Administrator	IT Director	City Clerk
Community Development Director	Police Chief	Fire Chief

**SCHOOL CAPACITY REPORT:** The proposed zoning district is non-residential and, therefore, a school capacity enhancement agreement is not necessary.

**ORANGE COUNTY NOTIFICATION:** The JPA requires the City to notify the County 30 days before any public hearing or advisory board. The City notified Orange County on February 5, 2016.

**PUBLIC HEARING SCHEDULE:**

March 8, 2016 – Planning Commission (5:30 pm)  
April 6, 2016 – City Council (1:30 pm) – 1st Reading  
April 20, 2016 – City Council (8:00 pm) – 2<sup>nd</sup> Reading

**DULY ADVERTISED:**

February 19, 2016 – Public Notice and Notification  
April 8, 2016 – Ordinance Heading Ad

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**RECOMMENDATION ACTION:**

The **Development Review Committee** recommends approval of the change in Zoning from “County” C-3 (ZIP) to “City” C-1 (Retail Commercial) as set forth in Exhibit “A” for the property described therein.

The **Planning Commission**, at its meeting on March 8, 2016, recommended approval (5-0) of the change in Zoning from “County” C-3 to “City” C-1 (Retail Commercial) as set forth in Exhibit “A” for the property described therein.

The **City Council**, at its meeting on April 6, 2015, accepted the First Reading of Ordinance No. 2479 and held it over for Second Reading and Adoption on April 20, 2016.

Adopt Ordinance No. 2479.

**Note: This item is considered Quasi-Judicial. The staff report and its findings are to be incorporated into and made a part of the minutes of this meeting.**



**EXHIBIT "A"**  
**2016-1 ADMINISTRATIVE REZONING**  
**FROM "COUNTY" C-3 TO "CITY" C-1**

<b>Case #</b>	<b>Parcel ID</b>	<b>Property Owner</b>	<b>Acreage +/-</b>	<b>Future Land Use</b>	<b>Current Zoning</b>	<b>Proposed Zoning</b>
2016-1-9	33-20-28-0000-00-078	Norman E Sawyer	0.46	COMM	C-3 (ZIP)	C-1
2016-1-10	06-21-28-7172-02-013	Iglesia El Getsemani Inc	1.45	COMM	C-3 (ZIP)	C-1
2016-1-10	06-21-28-7172-02-014	Iglesia El Getsemani Inc	1.41	COMM	C-3 (ZIP)	C-1

**ORDINANCE NO. 2479**

**AN ORDINANCE OF THE CITY OF APOPKA, FLORIDA, CHANGING THE ZONING FROM “COUNTY” C-3 (ZIP) TO “CITY” C-1 (RETAIL COMMERCIAL) FOR CERTAIN REAL PROPERTIES GENERALLY LOCATED WITHIN THE CITY LIMITS OF APOPKA, COMPRISING 3.32 ACRES, MORE OR LESS, AND OWNED BY NORMAN E. SAWYER; AND IGLESIA EL GETSEMANI INC.; PROVIDING FOR DIRECTIONS TO THE COMMUNITY DEVELOPMENT DIRECTOR, SEVERABILITY, CONFLICTS, AND AN EFFECTIVE DATE.**

**WHEREAS**, to manage the growth, the City of Apopka, Florida, finds it in the best interest of the public health, safety and welfare of its citizens to establish zoning classifications within the City; and

**WHEREAS**, the City of Apopka Community Development Department, has requested an administrative change in zoning on said property as identified in Section I of this ordinance; and

**WHEREAS**, Pursuant to the Interlocal Agreement between the City and Orange County (2004), policy of the City’s Comprehensive Plan Future Land Use Element (Policy 3.9), and State law (s 163.3202, F.S.), the City is required to assign a zoning category to lands that are annexed into the City’s jurisdiction.; and

**WHEREAS**, the proposed C-1 zoning has been found to be consistent with the City of Apopka Comprehensive Plan, and the City of Apopka Land Development Code.

**NOW THEREFORE, BE IT ORDAINED**, by the City Council of the City of Apopka, Florida, as follows:

**Section I.** That the zoning classification of the following described properties, being situated in the City of Apopka, Florida, is hereby C-1 as defined in the Apopka Land Development Code:

<b>Parcel ID</b>	<b>Property Owner</b>	<b>Acreage +/-</b>	<b>Land Use</b>	<b>Current Zoning</b>	<b>Proposed Zoning</b>
33-20-28-0000-00-078	Norman E Sawyer	0.46	COMM	C-3 (ZIP)	C-1
06-21-28-7172-02-013	Iglesia El Getsemani Inc.	1.45	COMM	C-3 (ZIP)	C-1
06-21-28-7172-02-014	Iglesia El Getsemani Inc.	1.41	COMM	C-3 (ZIP)	C-1

**Section II.** That the zoning classification is consistent with the Comprehensive Plan of the City of Apopka, Florida.

**Section III.** That the Community Development Director, or the Director’s designee, is hereby authorized to amend, alter, and implement the official zoning maps of the City of Apopka, Florida, to include said designation.

**Section IV.** That if any section or portion of a section or subsection of this Ordinance proves to be invalid, unlawful, or unconstitutional, it shall not be held to invalidate or impair the validity, force or effect of any other section or portion of section or subsection or part of this ordinance.

**Section V.** That all ordinances or parts of ordinances in conflict herewith are hereby repealed.

**Section VI.** That this Ordinance shall take effect upon the date of adoption.

READ FIRST TIME: April 6, 2016

READ SECOND TIME  
AND ADOPTION: April 20, 2016

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Joseph E. Kilsheimer, Mayor

ATTEST:

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Linda Goff, City Clerk

DULY ADVERTISED:      February 19, 2016  
   April 8, 2016



# CITY OF APOPKA CITY COUNCIL

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<input checked="" type="checkbox"/> PUBLIC HEARING	DATE:	April 20, 2016
<input type="checkbox"/> ANNEXATION	FROM:	Community Development
<input type="checkbox"/> PLAT APPROVAL	EXHIBITS:	Zoning Report
<input type="checkbox"/> OTHER:		Vicinity Map
		Adjacent Zoning Map
		Adjacent Uses Map
		Existing Uses

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**SUBJECT:** NORMAN E. SAWYER (CASE # 2016-1-9)

**PARCEL ID NUMBERS:** 33-20-28-0000-00-078

**Request:** ADMINISTRATIVE REZONING  
FROM: "COUNTY" C-3 (ZIP) (COMMERCIAL)  
TO: "CITY" C-1 (RETAIL COMMERCIAL)

**SUMMARY**

OWNER: Norman E. Sawyer

APPLICANT: City of Apopka

LOCATION: West of N Rock Springs Road, north of E Nancy Lee Lane

EXISTING USE: Warehousing

FUTURE LAND USE: Commercial

ZONING: C-3 (ZIP)

PROPOSED DEVELOPMENT: Warehousing (existing)

PROPOSED ZONING: C-1

TRACT SIZE: 0.46 +/- Acres

MAXIMUM ALLOWABLE DEVELOPMENT:

EXISTING ZONING:	6,011 sq. ft.
PROPOSED ZONING:	5,009 sq. ft.

**DISTRIBUTION**

Mayor Kilsheimer	Finance Director	Public Ser. Director
Commissioners (4)	HR Director	City Clerk
City Administrator Irby	IT Director	Fire Chief
Community Dev. Director	Police Chief	

**ADDITIONAL COMMENTS:** Policy 3.9 of the Apopka Comprehensive Plan 2030 requires that a “city” zoning classification be assigned to annexed properties. The subject property was annexed into the City of Apopka on December 1, 2004, through the adoption of Ordinance No. 1702. Staff is requesting an administrative rezoning for the subject properties to comply with the policy set forth in the Comprehensive Plan. The proposed city zoning category is comparable to the densities and intensities and uses allowed under the existing “county” zoning classification, and the proposed zoning change is compatible with the character of the surrounding area.

The subject property is located adjacent to “City” C-1 zoning and existing retail commercial uses to the east and the west, and adjacent to single-family residential to the north and south. The existing and proposed use of the site for warehousing is considered a legal, non-conforming use within the proposed C-1 zoning district and is subject to the conditions set forth in Sec. 10.01 of the Apopka Land Development Code.

Staff has analyzed the proposed amendment and determined that adequate public facilities exist to support this zoning change (see attached Zoning Report).

**COMPREHENSIVE PLAN COMPLIANCE:** The proposed zoning classification is consistent with the Future Land Use Designation assigned to the property.

**SCHOOL CAPACITY REPORT:** The request of the proposed rezoning is for a non-residential zoning classification and, therefore, a school capacity enhancement agreement with OCPS is not necessary.

**JOINT PLANNING AREA/OVERLAY:** The subject property is located within the “Core Area” of the Joint Planning Area with Orange County. The subject property is not located within any other city overall or protection area.

**ORANGE COUNTY NOTIFICATION:** The JPA requires the City to notify the County 30 days before any public hearing or advisory board. The City properly notified Orange County on February 5, 2016.

**PROPERTY OWNER NOTIFICATION:** The property owner was notified of this administrative rezoning and public hearing dates at least thirty (30) days prior to the adoption public hearing.

**PUBLIC HEARING SCHEDULE:**

- March 8, 2016 – Planning Commission (5:30 pm)
- April 6, 2016 - City Council (1:30 pm) - 1st Reading
- April 20, 2016 – City Council (7:00 pm) - 2nd Reading

**DULY ADVERTISED:**

- February 19, 2016 – Public Hearing Notice Ad
- April 8, 2016 – Ordinance Heading Ad

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**RECOMMENDED ACTION:**

The **Development Review Committee** recommends approval of the change in Zoning from “County” C-3 (ZIP) to “City” C-1 (Retail Commercial).

The **Planning Commission**, at its meeting on March 8, 2016, recommended approval (5-0) of the change in Zoning from “County” C-3 to “City” C-1 (Retail Commercial) as set forth in Exhibit “A” for the property described therein.

The **City Council**, at its meeting on April 6, 2016, accepted the First Reading of Ordinance No. 2479 and held it over for Second Reading and Adoption on April 20, 2016.

Adopt Ordinance No. 2479.

**Note: This item is considered Quasi-Judicial. The staff report and its findings are to be incorporated into and made a part of the minutes of this meeting.**

**ZONING REPORT**

**RELATIONSHIP TO ADJACENT PROPERTIES:**

<i>Direction</i>	<i>Future Land Use</i>	<i>Zoning</i>	<i>Present Use</i>
North (City)	Residential Low (0 – 5 du/ac)	PUD	Single-family residential (Spring Harbor subdivision)
East (City)	Commercial (max FAR 0.25)	C-1	Warehousing & retail commercial/office
South (City)	Commercial (max FAR 0.25)	A-1 (ZIP)	Warehousing
West (County)	Low Density Residential (0 – 4 du/ac)	A-1	Single-family residential

**LAND USE &**

**TRAFFIC COMPATIBILITY:** The subject property is accessed by a minor arterial (N Rock Springs Road).

**COMPREHENSIVE  
 PLAN COMPLIANCE:**

The proposed C-1 zoning is consistent with the City’s Commercial Future Land Use designation and with the character of the surrounding area and future proposed development. The C-1 zoning classification is one of the acceptable zoning categories allowed within the Commercial Future Land Use category. Development Plans shall not exceed the density allowed in the adopted Future Land Use Designation.

**C-1 DISTRICT  
 REQUIREMENTS:**

Minimum Living Area:	NA
Minimum Site Area:	10,000 sq. ft.
Minimum Lot Width	100 ft.
Setbacks:	Front: 10 ft.
	Rear: 10 ft. (30 ft. from Residential)
	Side: 10 ft. (15ft. corner lots)
	Corner 15 ft.

Based on the above zoning standards, the subject site complies with code requirements for the C-1 district.

**BUFFERYARD  
 REQUIREMENTS:**

Areas adjacent to all road right-of-ways shall provide a minimum ten-foot landscaped bufferyard. Areas adjacent to agricultural and residential uses or districts shall provide a minimum six-foot-high masonry wall within a ten-foot landscaped bufferyard. Areas adjacent to non-residential uses or districts shall provide a minimum five-foot landscaped bufferyard.

**ALLOWABLE USES:**

Retail establishments, banks, savings and loan and other financial institutions. Bowling alleys, skating rinks, billiard parlors and similar amusement centers, provided such activities and facilities are enclosed within a sound-proof building. Churches and schools and any non-residential permitted use in the PO/I or CN districts.



**Norman E. Sawyer**  
**0.46 +/- Acres**  
**Proposed Zoning Change:**  
**From: "County" C-3 (ZIP) (Commercial) (12,000 sq. ft. min. lot)**  
**To: "City" C-1 (Retail Commercial) (10,000 sq. ft. min. lot)**  
**Parcel ID #: 33-20-28-0000-00-078**

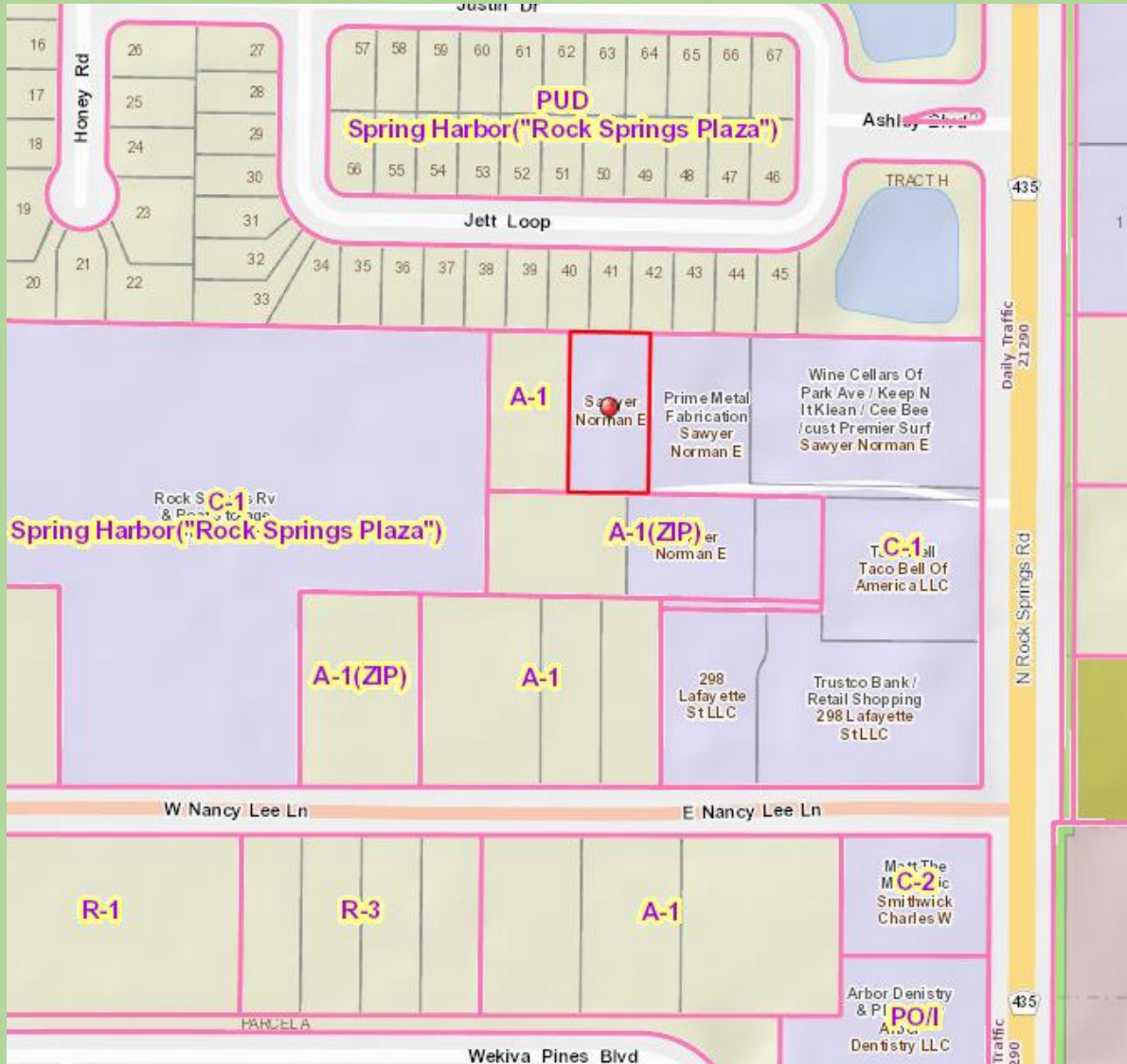
**VICINITY MAP**





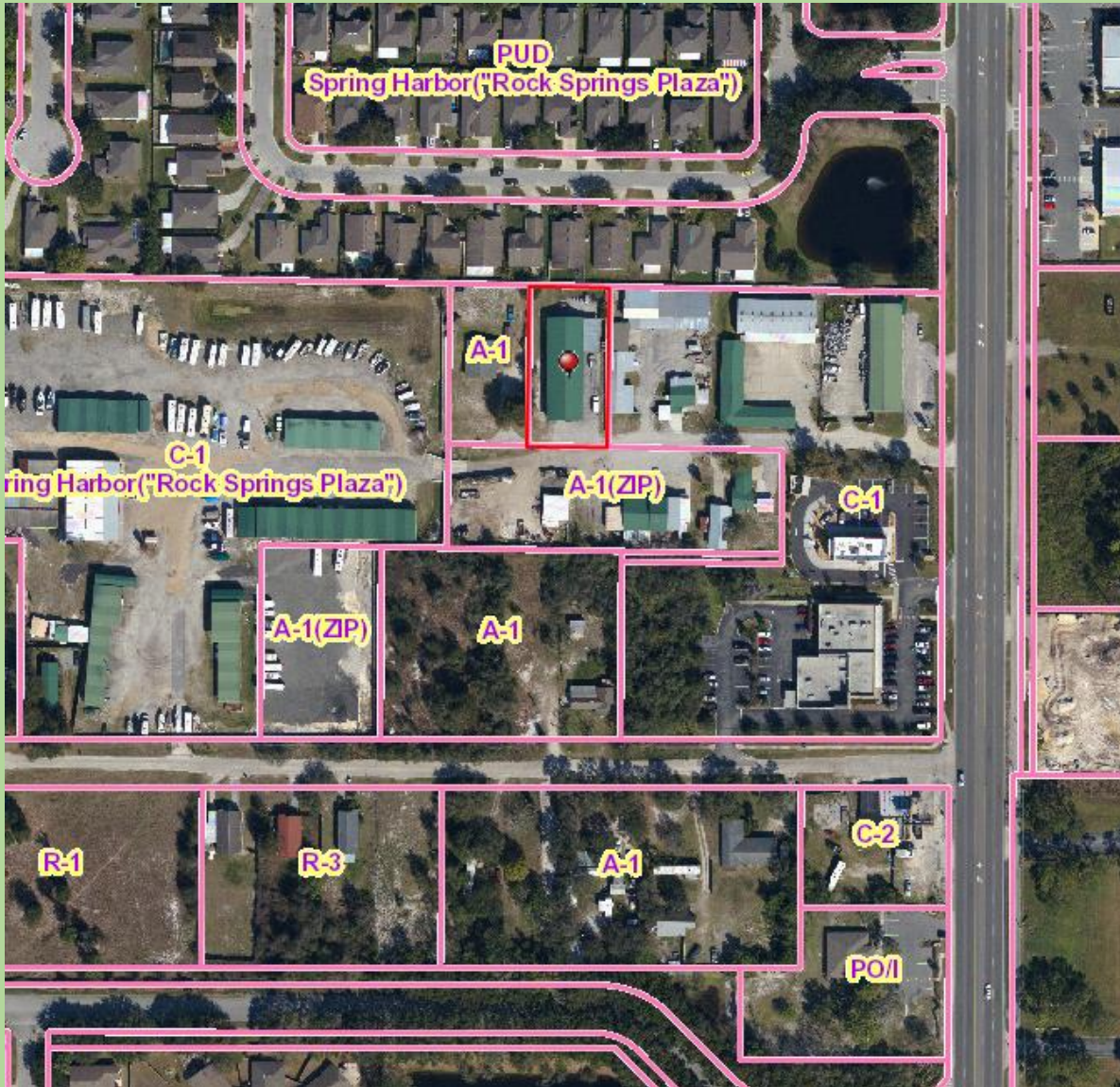


ADJACENT ZONING





### ADJACENT USES





**EXISTING  
USES**





# CITY OF APOPKA CITY COUNCIL

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<input checked="" type="checkbox"/> PUBLIC HEARING	DATE:	April 20, 2016
<input type="checkbox"/> ANNEXATION	FROM:	Community Development
<input type="checkbox"/> PLAT APPROVAL	EXHIBITS:	Zoning Report
<input type="checkbox"/> OTHER:		Vicinity Map
		Adjacent Zoning Map
		Adjacent Uses Map
		Existing Uses

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**SUBJECT:** IGLESIA EL GETSEMANI, INC. (CASE # 2016-1-10)

**PARCEL ID NUMBERS:** 06-21-28-7172-02-013 & 06-21-28-7172-02-014

**Request:** ADMINISTRATIVE REZONING  
FROM: "COUNTY" C-3 (ZIP) (COMMERCIAL)  
TO: "CITY" C-1 (RETAIL COMMERCIAL)

**SUMMARY**

OWNER: Iglesia El Getsemani, Inc.

APPLICANT: City of Apopka

LOCATION: North of N Orange Blossom Trail, east of Stewart Avenue

EXISTING USE: Office

FUTURE LAND USE: Commercial

ZONING: C-3 (ZIP)

PROPOSED DEVELOPMENT: Office (existing)

PROPOSED ZONING: C-1

TRACT SIZE: 2.86 +/- Acres

MAXIMUM ALLOWABLE DEVELOPMENT: EXISTING ZONING: 37,374 sq. ft.  
PROPOSED ZONING: 31,145 sq. ft.

**DISTRIBUTION**

Mayor Kilsheimer	Finance Director	Public Ser. Director
Commissioners (4)	HR Director	City Clerk
City Administrator Irby	IT Director	Fire Chief
Community Dev. Director	Police Chief	

**ADDITIONAL COMMENTS:** Policy 3.9 of the Apopka Comprehensive Plan 2030 requires that a “city” zoning classification be assigned to annexed properties. The subject properties were annexed into the City of Apopka on June 4, 2008, through the adoption of Ordinance No. 2031. Staff is requesting an administrative rezoning for the subject properties to comply with the policy set forth in the Comprehensive Plan. The proposed city zoning category is comparable to the densities and intensities and uses allowed under the existing “county” zoning classification, and the proposed zoning change is compatible with the character of the surrounding area.

The subject properties abut “County” C-1 commercial zoning to the west, which is used for a church, as well as “City” C-3 zoning to the east and “City” I-1 zoning and uses to the south. The existing and proposed use of the site for office is permitted within the proposed C-1 zoning district and compatible with the surrounding uses and zoning.

Staff has analyzed the proposed amendment and determined that adequate public facilities exist to support this zoning change (see attached Zoning Report).

**COMPREHENSIVE PLAN COMPLIANCE:** The proposed zoning classification is consistent with the Future Land Use Designation assigned to the property.

**SCHOOL CAPACITY REPORT:** The request of the proposed rezoning is for a non-residential zoning classification and, therefore, a school capacity enhancement agreement with OCPS is not necessary.

**JOINT PLANNING AREA/OVERLAY:** The subject properties are located within the “Core Area” of the Joint Planning Area with Orange County. The subject properties are not located within any other city overall or protection area.

**ORANGE COUNTY NOTIFICATION:** The JPA requires the City to notify the County 30 days before any public hearing or advisory board. The City properly notified Orange County on February 5, 2016.

**PROPERTY OWNER NOTIFICATION:** The property owner was notified of this administrative rezoning and public hearing dates at least thirty (30) days prior to the adoption public hearing.

**PUBLIC HEARING SCHEDULE:**

March 8, 2016 – Planning Commission (5:30 pm)

April 6, 2016 - City Council (1:30 pm) - 1st Reading

April 20, 2016 – City Council (7:00 pm) - 2nd Reading

**DULY ADVERTISED:**

February 19, 2016 – Public Hearing Notice Ad

April 8, 2016 – Ordinance Heading Ad

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**RECOMMENDED ACTION:**

The **Development Review Committee** recommends approval of the change in Zoning from “County” C-3 (ZIP) to “City” C-1 (Retail Commercial).

The **Planning Commission**, at its meeting on March 8, 2016, recommended approval (5-0) of the change in Zoning from “County” C-3 to “City” C-1 (Retail Commercial) as set forth in Exhibit “A” for the property described therein.

The **City Council**, at its meeting on April 6, 2016, accepted the First Reading of Ordinance No. 2479 and held it over for Second Reading and Adoption on April 20, 2016.

Adopt Ordinance No. 2479.

**Note: This item is considered Quasi-Judicial. The staff report and its findings are to be incorporated into and made a part of the minutes of this meeting.**

**ZONING REPORT**

**RELATIONSHIP TO ADJACENT PROPERTIES:**

<i>Direction</i>	<i>Future Land Use</i>	<i>Zoning</i>	<i>Present Use</i>
North (City)	Residential Low (0 – 5 du/ac)	R-2	Single-family residential (Plymouth Landing Phase 2)
East (City)	Commercial	C-3	Office and wholesale commercial
South (City)	Industrial	I-1	ROW & Light industrial
West (County)	Commercial	C-1	Church

**LAND USE &**

**TRAFFIC COMPATIBILITY:** The subject property fronts and is accessed by a major collector (S Orange Blossom Trail).

**COMPREHENSIVE  
 PLAN COMPLIANCE:**

The proposed C-1 zoning is consistent with the City’s Commercial Future Land Use designation and with the character of the surrounding area and future proposed development. The C-1 zoning classification is one of the acceptable zoning categories allowed within the Commercial Future Land Use category. Development Plans shall not exceed the density allowed in the adopted Future Land Use Designation.

**C-1 DISTRICT  
 REQUIREMENTS:**

- Minimum Living Area: NA
- Minimum Site Area: 10,000 sq. ft.
- Minimum Lot Width: 100 ft.
- Setbacks:
  - Front: 10 ft.
  - Rear: 10 ft. (30 ft. from Residential)
  - Side: 10 ft. (15ft. corner lots)
  - Corner: 15 ft.

Based on the above zoning standards, the subject site complies with code requirements for the C-1 district.

**BUFFERYARD  
 REQUIREMENTS:**

Areas adjacent to all road right-of-ways shall provide a minimum ten-foot landscaped bufferyard. Areas adjacent to agricultural and residential uses or districts shall provide a minimum six-foot-high masonry wall within a ten-foot landscaped bufferyard. Areas adjacent to non-residential uses or districts shall provide a minimum five-foot landscaped bufferyard.

**ALLOWABLE USES:**

Retail establishments, banks, savings and loan and other financial institutions. Bowling alleys, skating rinks, billiard parlors and similar amusement centers, provided such activities and facilities are enclosed within a sound-proof building. Churches and schools and any non-residential permitted use in the PO/I or CN districts.



Iglesia El Getsemani, Inc.  
2.86 +/- Acres

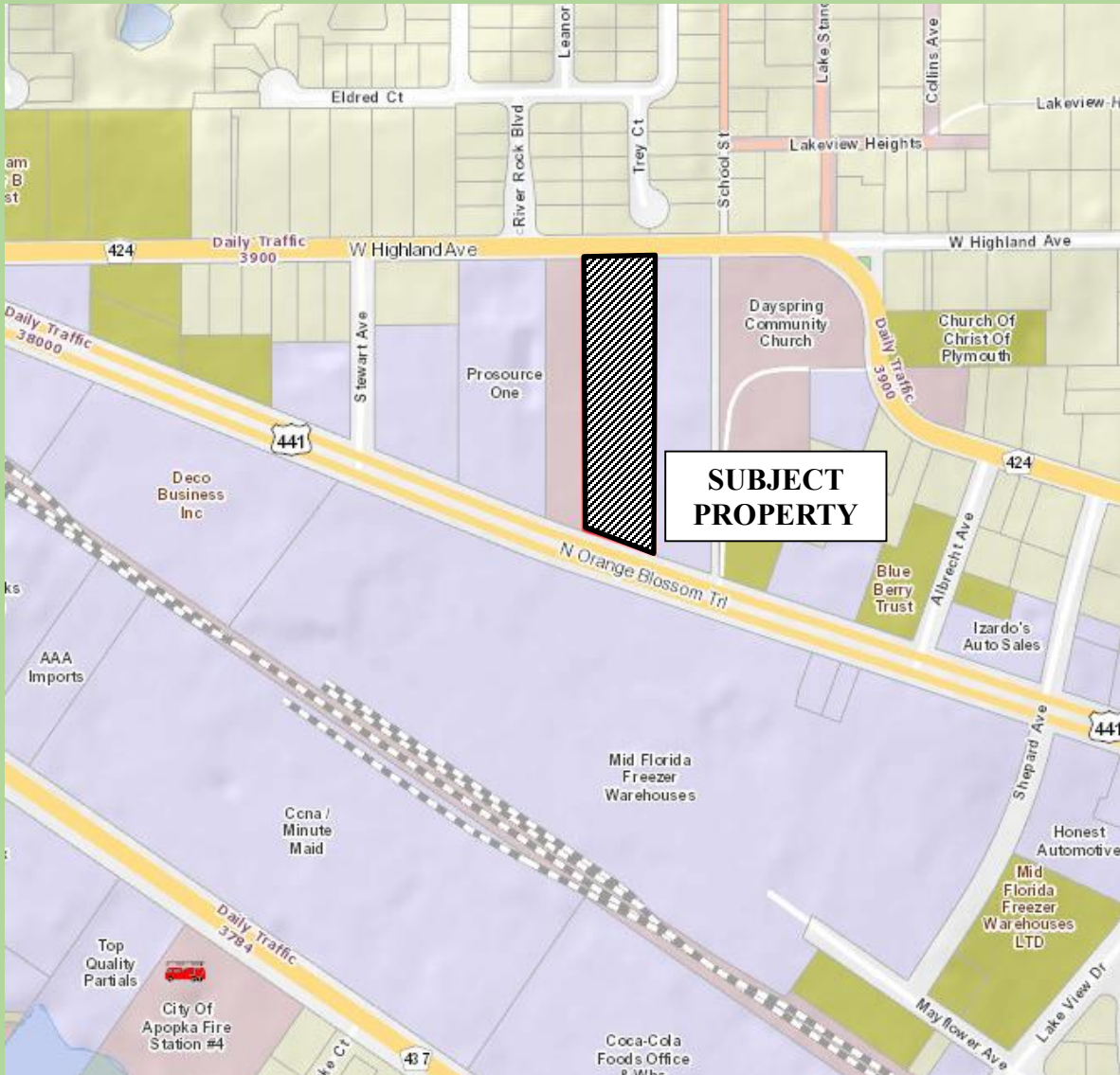
Proposed Zoning Change:

From: "County" C-3 (ZIP) (Commercial) (21,780 sq. ft. min. lot)

To: "City" C-1 (Retail Commercial) (10,000 sq. ft. min. lot)

Parcel ID #: 06-21-28-7172-02-013 & 06-21-28-7172-02-014

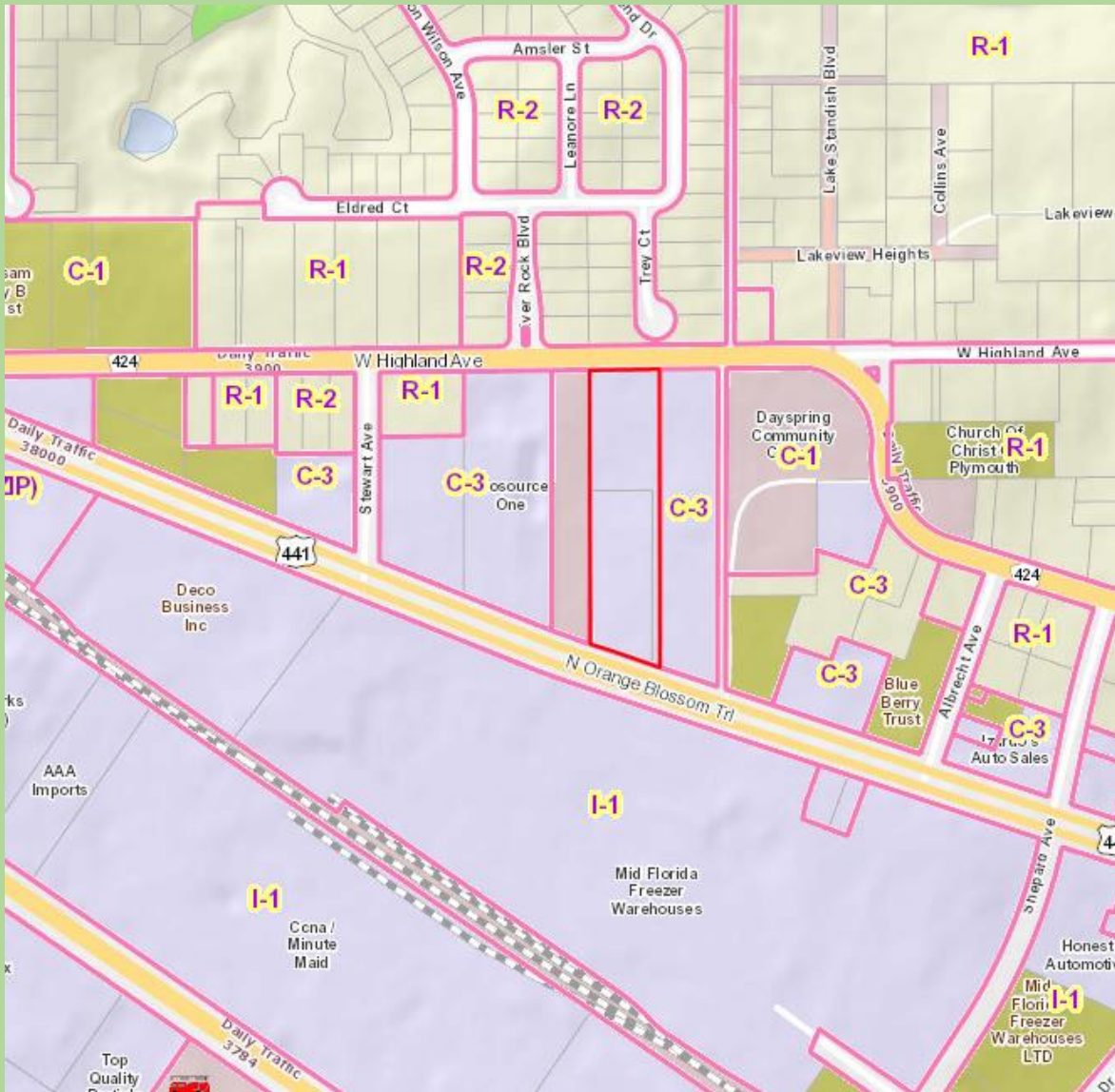
### VICINITY MAP





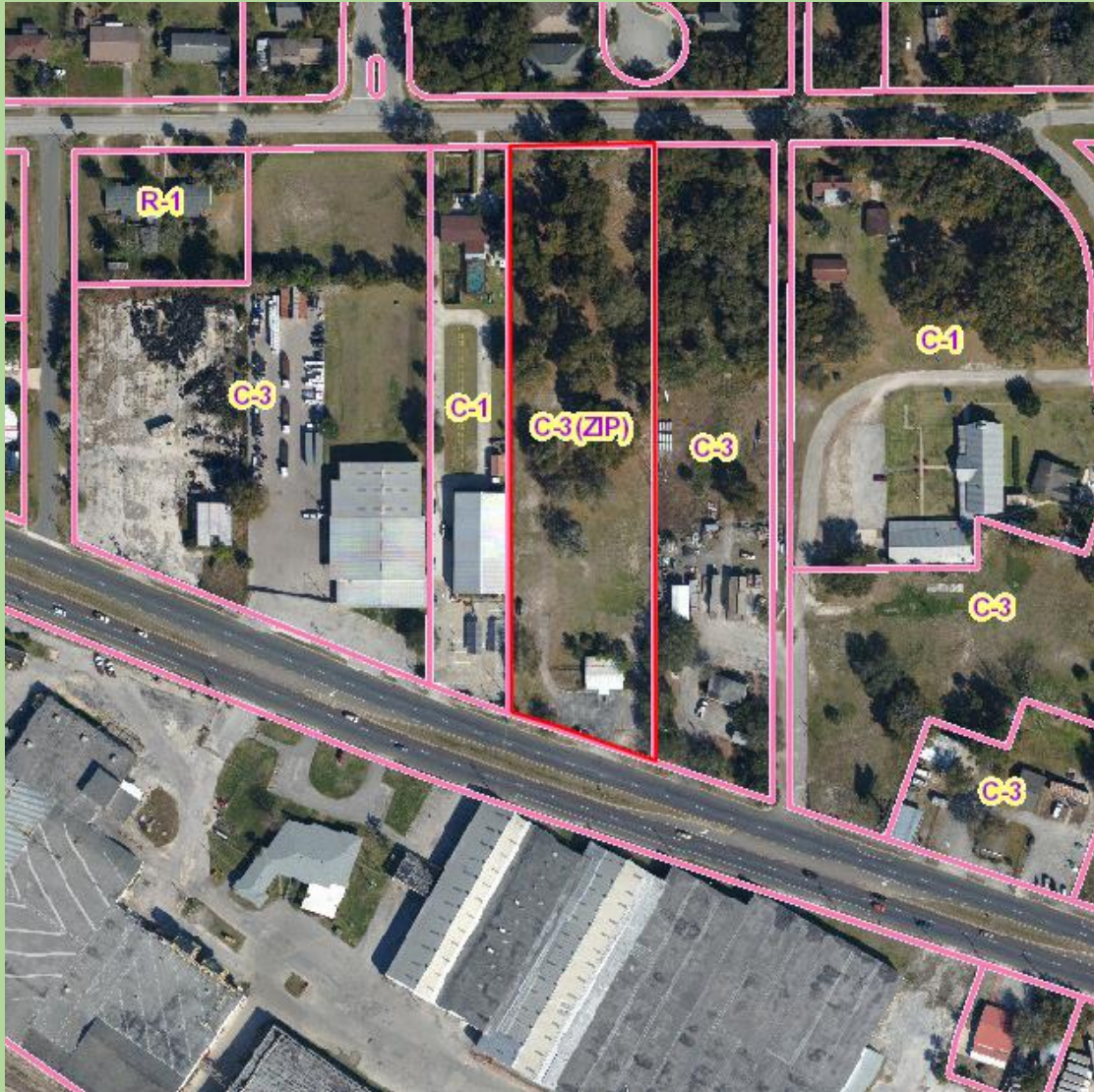


### ADJACENT ZONING



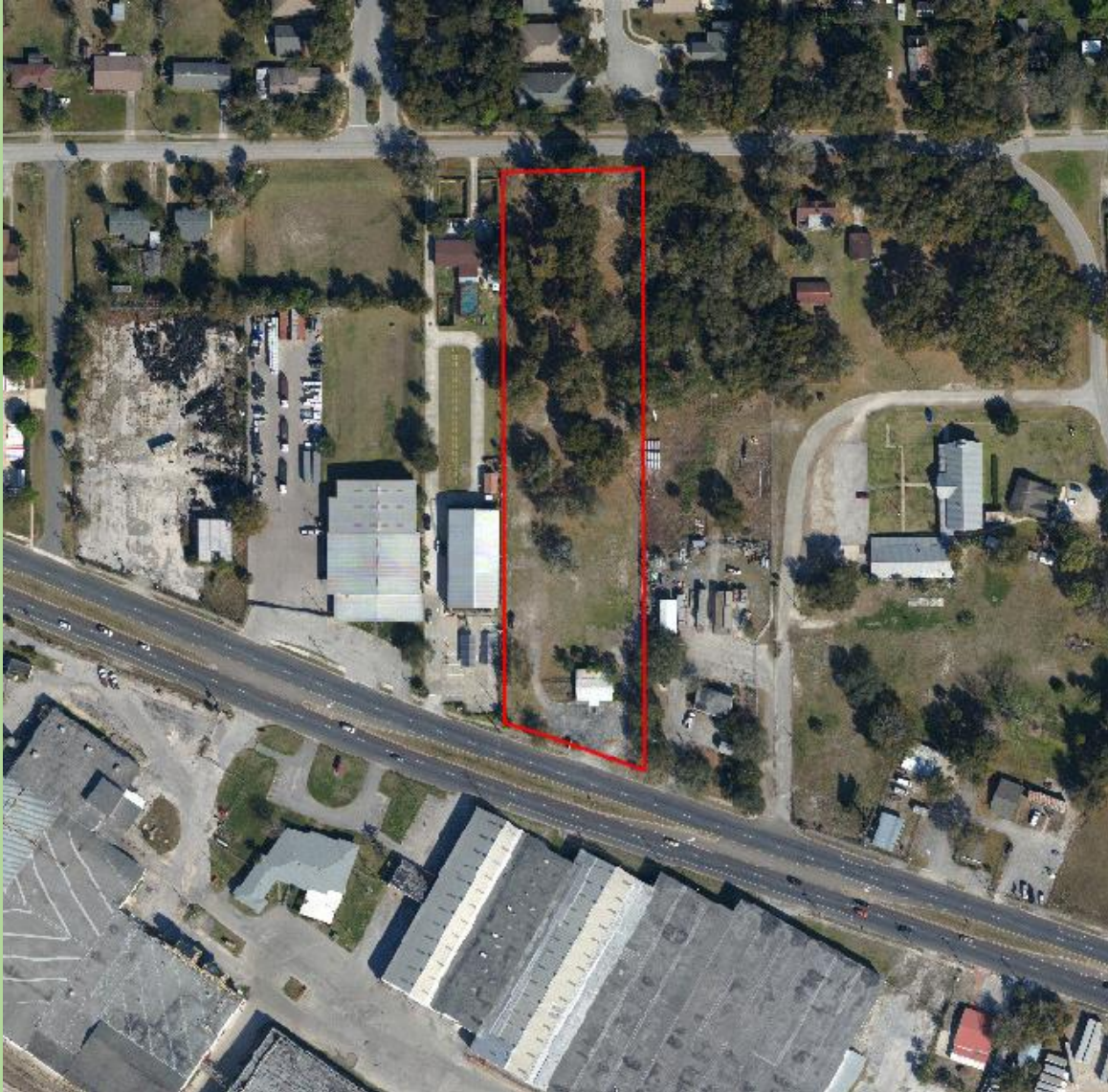


### ADJACENT USES





**EXISTING  
USES**



**Backup material for agenda item:**

5. Ordinance 2480 – Second Reading – 2016-1 Administrative Rezoning - Quasi-Judicial David Moon



# CITY OF APOPKA CITY COUNCIL

___ CONSENT AGENDA	MEETING OF:	April 20, 2016
___ PUBLIC HEARING	FROM:	Community Development
___ SPECIAL REPORTS	EXHIBITS:	C-1 Spreadsheet
___ OTHER:		Ordinance No. 2480
		Zoning Reports

**SUBJECT: 2016-1 ADMINISTRATIVE REZONING - FROM “COUNTY” C-1 (ZIP) TO “CITY” C-2 (GENERAL COMMERCIAL)**

**REQUEST: SECOND READING & ADOPTION OF ORDINANCE NO. 2480 - 2016 ADMINISTRATIVE REZONING; FROM “COUNTY” C-1 (ZIP) TO “CITY” C-2 (GENERAL COMMERCIAL).**

**SUMMARY:**

The three (3) parcels, comprising a total of 3.2 +/- acres, have been annexed into the City of Apopka and have been assigned Future Land Use designations compatible with the proposed C-2 zoning designation. The subject properties currently have a City Future Land Use Designation of Commercial (COMM) and a County zoning category of C-1 assigned to it. A summary of the zoning cases are provided in Exhibit “A”.

A brief summary of the administrative rezoning cases:

<u>C-1 Properties</u>	
# of Parcels:	3
# of Property Owners:	3
Acreage:	3.2 +/- acres

The attached exhibits provide a summary of the proposed zoning amendments. The property owners have been notified via certified mail that a zoning category comparable to the County designation will be assigned to their property. Individual zoning reports have been prepared for the zoning cases. The zoning reports are provided in Exhibit “B”.

Pursuant to the Interlocal Agreement between the City and Orange County (2004), policy of the City’s Comprehensive Plan (Policy 3.9) and State law (s 163.3202, F.S.), the City is required to assign a zoning category to lands that are annexed into the City’s jurisdiction. To comply with these requirements, city staff is recommending that the City assign a zoning category that is most compatible to the current zoning category that was assigned by Orange County.

**FUNDING SOURCE:** Not Applicable.

**DISTRIBUTION**

Mayor Kilsheimer	Finance Director	Public Services Director
Commissioners	HR Director	Recreation Director
City Administrator	IT Director	City Clerk
Community Development Director	Police Chief	Fire Chief

**SCHOOL CAPACITY REPORT:** The proposed zoning district is non-residential and, therefore, a school capacity enhancement agreement is not necessary.

**ORANGE COUNTY NOTIFICATION:** The JPA requires the City to notify the County 30 days before any public hearing or advisory board. The City notified Orange County on February 5, 2016.

**PUBLIC HEARING SCHEDULE:**

March 8, 2016 – Planning Commission (5:30 pm)  
April 6, 2016 – City Council (1:30 pm) – 1st Reading  
April 20, 2016 – City Council (8:00 pm) – 2<sup>nd</sup> Reading

**DULY ADVERTISED:**

February 19, 2016 – Public Notice and Notification  
April 8, 2016 – Ordinance Heading Ad

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**RECOMMENDATION ACTION:**

The **Development Review Committee** recommends approval of the change in Zoning from “County” C-1 (ZIP) to “City” C-2 (General Commercial) as set forth in Exhibit “A” for the property described therein.

The **Planning Commission**, at its meeting on March 8, 2016, recommended approval (5-0) of the change in Zoning from “County” C-1 (ZIP) to “City” C-2 (General Commercial) as set forth in Exhibit “A” for the property described therein.

The **City Council**, at its meeting on April 6, 2016, accepted the First Reading of Ordinance No. 2480 and held it over for Second Reading and Adoption on April 20, 2016.

Adopt Ordinance No. 2480.

**Note: This item is considered Quasi-Judicial. The staff report and its findings are to be incorporated into and made a part of the minutes of this meeting.**

**EXHIBIT "A"**  
**2016-1 ADMINISTRATIVE REZONING**  
**FROM "COUNTY" C-1 TO "CITY" C-2**

<b>Case #</b>	<b>Parcel ID</b>	<b>Property Owner</b>	<b>Acreage +/-</b>	<b>Future Land Use</b>	<b>Current Zoning</b>	<b>Proposed Zoning</b>
2016-1-8	12-21-28-6896-00-710	7-ELEVEN Inc.	1.28	COMM	C-1(ZIP)	C-2
2016-1-11	12-21-28-6896-00-730	Action Gator Tire	0.61	COMM	C-1(ZIP)	C-2
2016-1-12	12-21-28-0000-00-018	RaceTrac Petroleum Inc.	1.31	COMM	C-1(ZIP)	C-2

**ORDINANCE NO. 2480**

**AN ORDINANCE OF THE CITY OF APOPKA, FLORIDA, CHANGING THE ZONING FROM “COUNTY” C-1 (ZIP) TO “CITY” C-2 (GENERAL COMMERCIAL) FOR CERTAIN REAL PROPERTIES GENERALLY LOCATED WITHIN THE CITY LIMITS OF APOPKA, COMPRISING 3.2 ACRES, MORE OR LESS, AND OWNED BY 7-ELEVEN, INC.; ACTION GATOR TIRE; AND RACETRAC PETROLEUM, INC.; PROVIDING FOR DIRECTIONS TO THE COMMUNITY DEVELOPMENT DIRECTOR, SEVERABILITY, CONFLICTS, AND AN EFFECTIVE DATE.**

**WHEREAS**, to manage the growth, the City of Apopka, Florida, finds it in the best interest of the public health, safety and welfare of its citizens to establish zoning classifications within the City; and

**WHEREAS**, the City of Apopka Community Development Department, has requested an administrative change in zoning on said property as identified in Section I of this ordinance; and

**WHEREAS**, Pursuant to the Interlocal Agreement between the City and Orange County (2004), policy of the City’s Comprehensive Plan Future Land Use Element (Policy 3.9), and State law (s 163.3202, F.S.), the City is required to assign a zoning category to lands that are annexed into the City’s jurisdiction.; and

**WHEREAS**, Pursuant to the Interlocal Agreement between the City and Orange County (2004), policy of the City’s Comprehensive Plan Future Land Use Element (Policy 3.9), and State law (s 163.3202, F.S.), the City is required to assign a zoning category to lands that are annexed into the City’s jurisdiction.; and

**WHEREAS**, the proposed C-2 zoning has been found to be consistent with the City of Apopka Comprehensive Plan, and the City of Apopka Land Development Code.

**NOW THEREFORE, BE IT ORDAINED**, by the City Council of the City of Apopka, Florida, as follows:

**Section I.** That the zoning classification of the following described properties, being situated in the City of Apopka, Florida, is hereby C-2 as defined in the Apopka Land Development Code:

<b>Parcel ID</b>	<b>Property Owner</b>	<b>Acreage +/-</b>	<b>Land Use</b>	<b>Current Zoning</b>	<b>Proposed Zoning</b>
12-21-28-6896-00-710	7-Eleven Inc.	1.28	COMM	C-1 (ZIP)	C-2
12-21-28-6896-00-730	Action Gator Tire	0.61	COMM	C-1 (ZIP)	C-2
12-21-28-0000-00-018	RaceTrac Petroleum, Inc.	1.31	COMM	C-1 (ZIP)	C-2

**Section II.** That the zoning classification is consistent with the Comprehensive Plan of the City of Apopka, Florida.

**Section III.** That the Community Development Director, or the Director’s designee, is hereby authorized to amend, alter, and implement the official zoning maps of the City of Apopka, Florida, to include said designation.



**ORDINANCE NO. 2480**

**PAGE 2**

**Section IV.** That if any section or portion of a section or subsection of this Ordinance proves to be invalid, unlawful, or unconstitutional, it shall not be held to invalidate or impair the validity, force or effect of any other section or portion of section or subsection or part of this ordinance.

**Section V.** That all ordinances or parts of ordinances in conflict herewith are hereby repealed.

**Section VI.** That this Ordinance shall take effect upon the date of adoption.

READ FIRST TIME: April 6, 2016

READ SECOND TIME  
AND ADOPTION: April 20, 2016

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Joseph E. Kilsheimer, Mayor

ATTEST:

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Linda Goff, City Clerk

DULY ADVERTISED:      February 19, 2016  
   April 8, 2016



**CITY OF APOPKA  
CITY COUNCIL**

<u>X</u> PUBLIC HEARING	DATE:	April 20, 2016
ANNEXATION	FROM:	Community Development
PLAT APPROVAL	EXHIBITS:	Zoning Report
OTHER:		Vicinity Map
		Adjacent Zoning Map
		Adjacent Uses Map
		Existing Uses

**SUBJECT:** 7 ELEVEN, INC. (CASE # 2016-1-8)

**PARCEL ID NUMBER:** 12-21-28-6896-00-710

**Request:** ADMINISTRATIVE REZONING  
FROM: "COUNTY" C-1 (ZIP) (COMMERCIAL)  
TO: "CITY" C-2 (GENERAL COMMERCIAL)

**SUMMARY**

OWNER: 7 Eleven, Inc.

APPLICANT: City of Apopka

LOCATION: North of E Semoran Boulevard, west of S Wekiwa Springs Road

EXISTING USE: Gas station and convenience store

FUTURE LAND USE: Commercial

ZONING: C-1 (ZIP)

PROPOSED DEVELOPMENT: Gas station and convenience store (existing)

PROPOSED ZONING: C-2

TRACT SIZE: 1.28 +/- Acres

MAXIMUM ALLOWABLE DEVELOPMENT:	EXISTING ZONING:	16,727 sq. ft.
	PROPOSED ZONING:	13,939 sq. ft.

**DISTRIBUTION**

Mayor Kilsheimer	Finance Director	Public Ser. Director
Commissioners (4)	HR Director	City Clerk
City Administrator Irby	IT Director	Fire Chief
Community Dev. Director	Police Chief	

**ADDITIONAL COMMENTS:** Policy 3.9 of the Apopka Comprehensive Plan 2030 requires that a “city” zoning classification be assigned to annexed properties. The subject property was were annexed into the City of Apopka on December 5, 2001, through the adoption of Ordinance No. 1417. Staff is requesting an administrative rezoning for the subject properties to comply with the policy set forth in the Comprehensive Plan. The proposed city zoning category is comparable to the densities and intensities and uses allowed under the existing “county” zoning classification, and the proposed zoning change is compatible with the character of the surrounding area.

The subject property is adjacent to C-1 zoning districts to the north, east and south, as well as abutting a proposed administrative rezoning to “City” C-2 for an existing tire and auto repair shop. The existing and proposed use for a gas station is permitted the proposed C-2 zoning district and compatible with surrounding uses.

Staff has analyzed the proposed amendment and determined that adequate public facilities exist to support this zoning change (see attached Zoning Report).

**COMPREHENSIVE PLAN COMPLIANCE:** The proposed zoning classification is consistent with the Future Land Use Designation assigned to the property.

**SCHOOL CAPACITY REPORT:** The request of the proposed rezoning is for a non-residential zoning classification and, therefore, a school capacity enhancement agreement with OCPS is not necessary.

**JOINT PLANNING AREA/OVERLAY:** The subject property is located within the “Core Area” of the Joint Planning Area with Orange County. The subject property is not located within any other city overall or protection area.

**ORANGE COUNTY NOTIFICATION:** The JPA requires the City to notify the County 30 days before any public hearing or advisory board. The City properly notified Orange County on February 5, 2016.

**PROPERTY OWNER NOTIFICATION:** The property owner was notified of this administrative rezoning and public hearing dates at least thirty (30) days prior to the adoption public hearing.

**PUBLIC HEARING SCHEDULE:**

March 8, 2016 – Planning Commission (5:30 pm)  
April 6, 2016 - City Council (1:30 pm) - 1st Reading  
April 20, 2016 – City Council (7:00 pm) - 2nd Reading

**DULY ADVERTISED:**

February 19, 2016 – Public Hearing Notice Ad  
April 8, 2016 – Ordinance Heading Ad

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**RECOMMENDED ACTION:**

The **Development Review Committee** recommends approval of the change in Zoning from “County” C-1 (ZIP) to “City” C-2.

The **Planning Commission**, at its meeting on March 8, 2016, recommended approval (5-0) of the change in Zoning from “County” C-1 (ZIP) to “City” C-2.

The **City Council**, at its meeting on April 6, 2016, accepted the First Reading of Ordinance No. 2480 and held it over for Second Reading and Adoption on April 20, 2016.

Adopt Ordinance No. 2480.

**Note: This item is considered Quasi-Judicial. The staff report and its findings are to be incorporated into the minutes and made a part of the minutes of this meeting.**

**ZONING REPORT**

**RELATIONSHIP TO ADJACENT PROPERTIES:**

<i>Direction</i>	<i>Future Land Use</i>	<i>Zoning</i>	<i>Present Use</i>
North (City)	Commercial	C-1	Retail shopping center
East (City)	Commercial	C-1	R-O-W & Retail pharmacy
South (City)	Commercial	C-1	R-O-W & Bank and retail commercial
West (City)	Commercial	C-1 (ZIP)	Tire and auto repair

**LAND USE &**

**TRAFFIC COMPATIBILITY:** The subject property is accessed by a major collector (E Semoran Boulevard).

**COMPREHENSIVE  
 PLAN COMPLIANCE:**

The proposed C-2 zoning is consistent with the City’s Commercial Future Land Use designation and with the character of the surrounding area and future proposed development. The C-2 zoning classification is one of the acceptable zoning categories allowed within the Commercial Future Land Use category. Development Plans shall not exceed the density allowed in the adopted Future Land Use Designation.

**C-2 DISTRICT  
 REQUIREMENTS:**

- Minimum Living Area: NA
- Minimum Site Area: 10,000 sq. ft.
- Minimum Lot Width: 100 ft.
- Setbacks:
  - Front: 10 ft.
  - Rear: 10 ft. (30 ft. from Residential)
  - Side: 10 ft.
  - Corner: 15 ft.

Based on the above zoning standards, the subject site complies with code requirements for the C-2 district.

**BUFFERYARD  
 REQUIREMENTS:**

Areas adjacent to all road right-of-ways shall provide a minimum ten-foot landscaped bufferyard. Areas adjacent to agricultural and residential uses or districts shall provide a minimum six-foot-high masonry wall within a ten-foot landscaped bufferyard. Areas adjacent to non-residential uses or districts shall provide a minimum five-foot landscaped bufferyard.

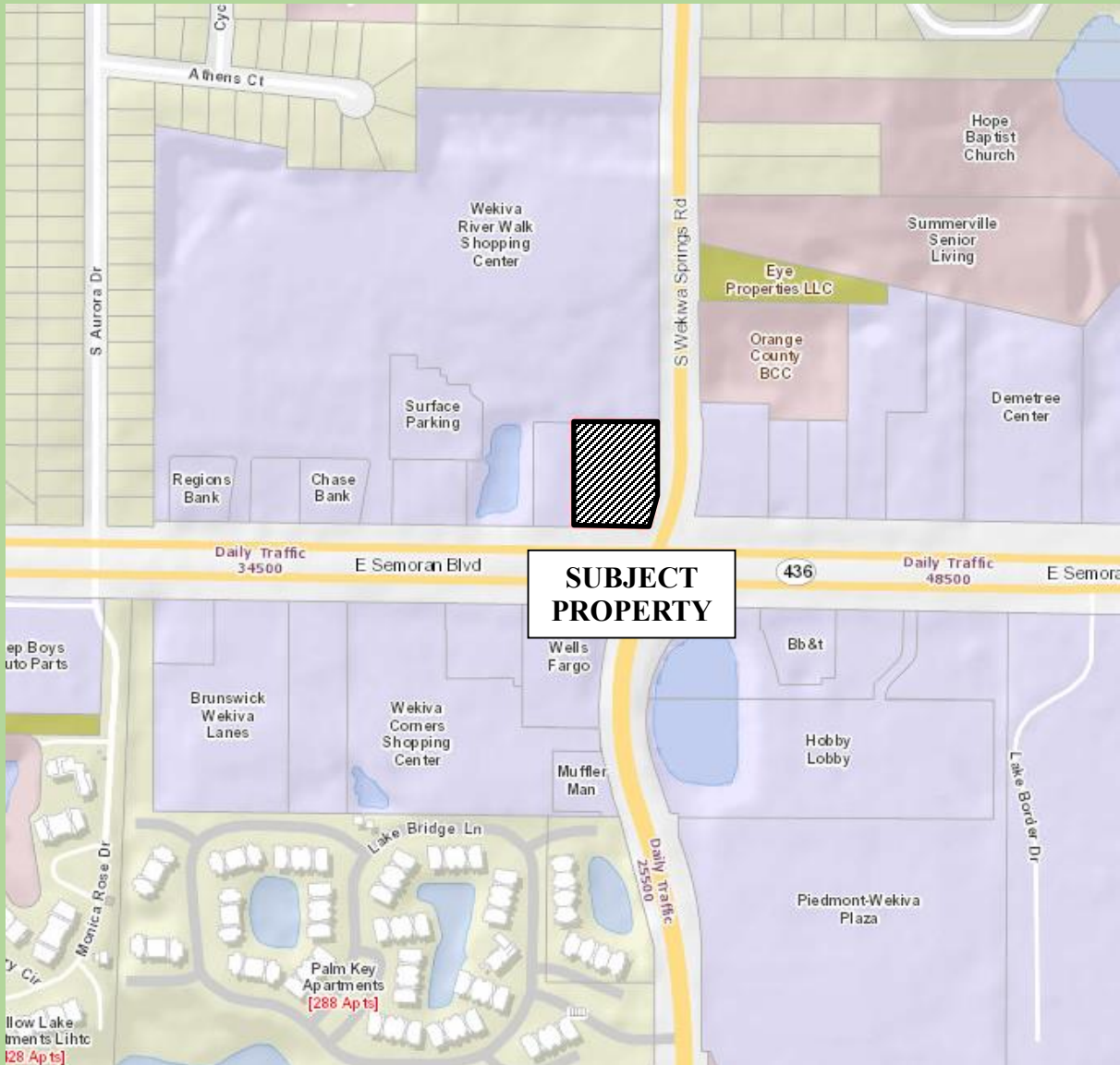
**ALLOWABLE USES:**

Automobile service stations, not including truck stops, mechanical garages provided no body work or painting services are provided on-site. New and used cars, modular and pre-fab home displays, and boat sales and mechanical services. Nurseries and greenhouses which sell and/or distribute products wholesale. Radio broadcasting and telecasting stations, studios and offices. Motorcycle sales and services. Any permitted use in the PO/I, CN, and C-1 districts. Other uses which are similar and compatible to the uses permitted herein which adhere to the intent of the district and which are not prohibited as specified in this code.



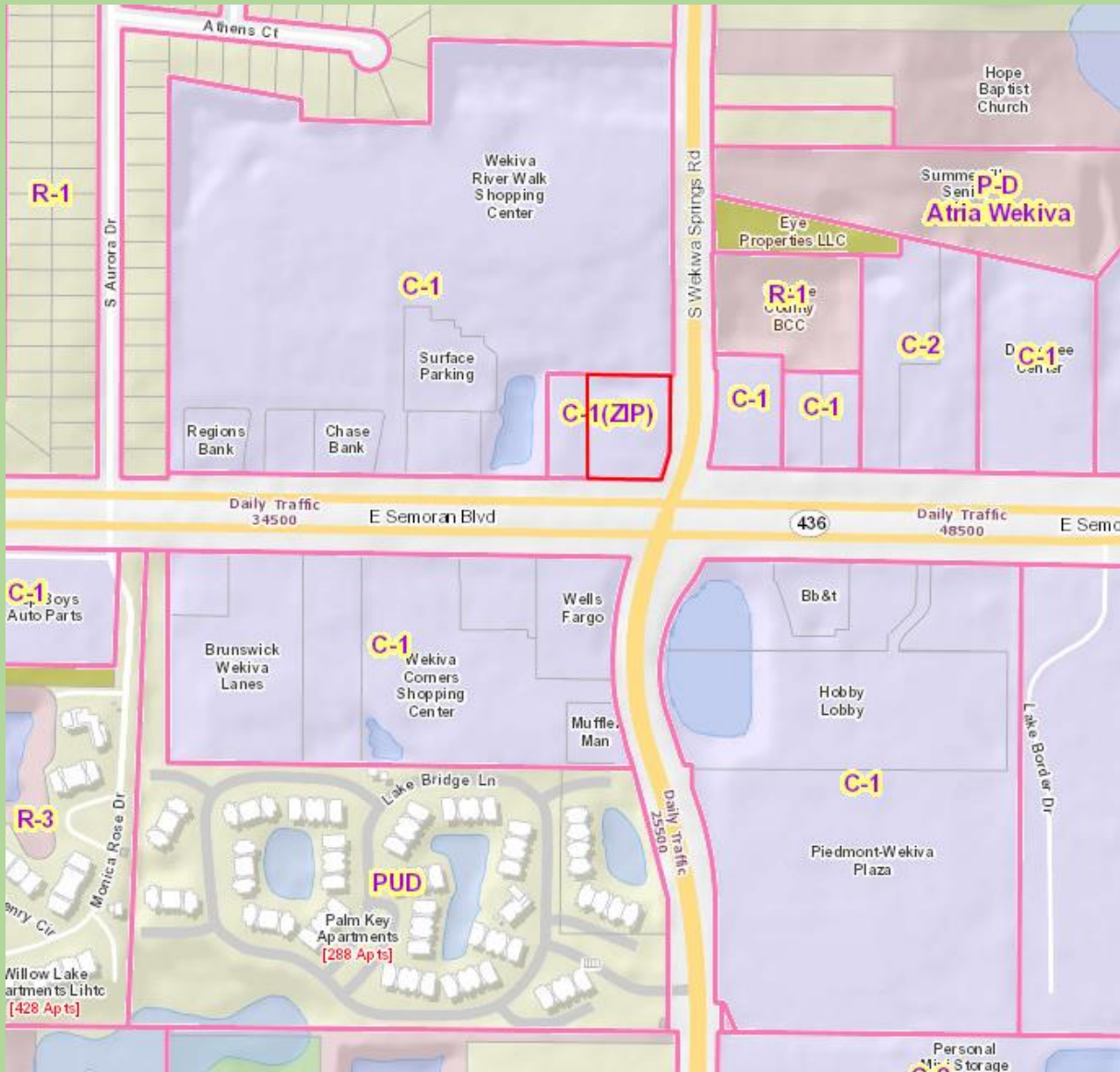
**7 Eleven, Inc.**  
**1.28 +/- Acres**  
**Proposed Zoning Change:**  
**From: "County" C-1 (ZIP) (Commercial) (12,000 sq. ft. min. lot)**  
**To: "City" C-2 (General Commercial) (10,000 sq. ft. min. lot)**  
**Parcel ID #: 12-21-28-6896-00-710**

**VICINITY MAP**



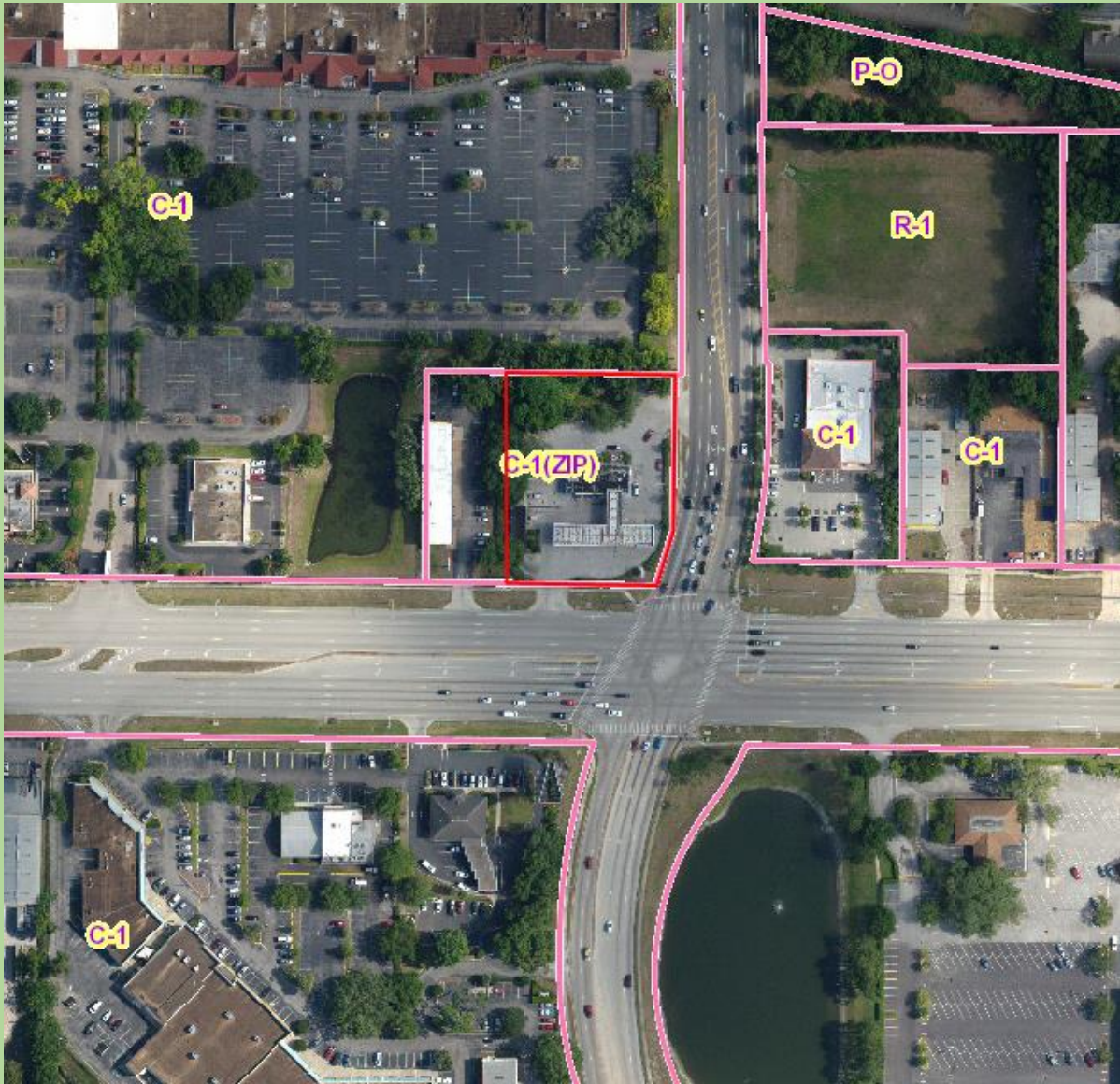


### ADJACENT ZONING





### ADJACENT USES





**EXISTING  
USES**







# CITY OF APOPKA CITY COUNCIL

PUBLIC HEARING  
 ANNEXATION  
 PLAT APPROVAL  
 OTHER:

DATE: April 20, 2016  
FROM: Community Development  
EXHIBITS: Zoning Report  
Vicinity Map  
Adjacent Zoning Map  
Adjacent Uses Map  
Existing Uses

**SUBJECT:** ACTION GATOR TIRE (CASE # 2016-1-11)

**PARCEL ID NUMBER:** 12-21-28-6896-00-730

**Request:** ADMINISTRATIVE REZONING  
**FROM:** "COUNTY" C-1 (ZIP) (COMMERCIAL)  
**TO:** "CITY" C-2 (GENERAL COMMERCIAL)

### SUMMARY

OWNER: Action Gator Tire  
APPLICANT: City of Apopka  
LOCATION: North of E Semoran Boulevard, west of S Wekiwa Springs Road  
EXISTING USE: Tire and auto repair  
FUTURE LAND USE: Commercial  
ZONING: C-1 (ZIP)  
PROPOSED DEVELOPMENT: Tire and auto repair (existing)  
PROPOSED ZONING: C-2  
TRACT SIZE: 0.61 +/- Acres  
MAXIMUM ALLOWABLE DEVELOPMENT: EXISTING ZONING: 7,971 sq. ft.  
PROPOSED ZONING: 6,642 sq. ft.

### DISTRIBUTION

Mayor Kilsheimer  
Commissioners (4)  
City Administrator Irby  
Community Dev. Director

Finance Director  
HR Director  
IT Director  
Police Chief

Public Ser. Director  
City Clerk  
Fire Chief

**ADDITIONAL COMMENTS:** Policy 3.9 of the Apopka Comprehensive Plan 2030 requires that a “city” zoning classification be assigned to annexed properties. The subject property was annexed into the City of Apopka on December 5, 2001, through the adoption of Ordinance No. 1416. Staff is requesting an administrative rezoning for the subject properties to comply with the policy set forth in the Comprehensive Plan. The proposed city zoning category is comparable to the densities and intensities and uses allowed under the existing “county” zoning classification, and the proposed zoning change is compatible with the character of the surrounding area.

The subject property is located in an area generally characterized by commercial development. The subject property is adjacent to retail commercial on all sides, as well as a gas station to the east. The existing and proposed use as a tire and auto repair shop is permitted within the proposed C-2 zoning district, and compatible with the surrounding uses.

Staff has analyzed the proposed amendment and determined that adequate public facilities exist to support this zoning change (see attached Zoning Report).

**COMPREHENSIVE PLAN COMPLIANCE:** The proposed zoning classification is consistent with the Future Land Use Designation assigned to the property.

**SCHOOL CAPACITY REPORT:** The request of the proposed rezoning is for a non-residential zoning classification and, therefore, a school capacity enhancement agreement with OCPS is not necessary.

**JOINT PLANNING AREA/OVERLAY:** The subject property is located within the “Core Area” of the Joint Planning Area with Orange County. The subject properties are not located within any other city overall or protection area.

**ORANGE COUNTY NOTIFICATION:** The JPA requires the City to notify the County 30 days before any public hearing or advisory board. The City properly notified Orange County on February 5, 2016.

**PROPERTY OWNER NOTIFICATION:** The property owner was notified of this administrative rezoning and public hearing dates at least thirty (30) days prior to the adoption public hearing.

**PUBLIC HEARING SCHEDULE:**

March 8, 2016 – Planning Commission (5:30 pm)  
April 6, 2016 - City Council (1:30 pm) - 1st Reading  
April 20, 2016 – City Council (7:00 pm) - 2nd Reading

**DULY ADVERTISED:**

February 19, 2016 – Public Hearing Notice Ad  
April 8, 2016 – Ordinance Heading Ad

**RECOMMENDED ACTION:**

The **Development Review Committee** recommends approval of the change in Zoning from “County” C-1 (ZIP) to “City” C-2.

The **Planning Commission**, at its meeting on March 8, 2016, recommended approval (5-0) of the change in Zoning from “County” C-1 (ZIP) to “City” C-2.

The **City Council**, at its meeting on April 6, 2016, accepted the First Reading of Ordinance No. 2480 and held it over for Second Reading and Adoption on April 20, 2016.

Adopt Ordinance No. 2480.

**Note: This item is considered Quasi-Judicial. The staff report and its findings are to be incorporated into and made a part of the minutes of this meeting.**

**ZONING REPORT**

**RELATIONSHIP TO ADJACENT PROPERTIES:**

<i>Direction</i>	<i>Future Land Use</i>	<i>Zoning</i>	<i>Present Use</i>
North (City)	Commercial	C-1	Retail Shopping Center
East (City)	Commercial	C-1 (ZIP)	Gas station
South (City)	Commercial	C-1	R-O-W & Bank and retail shopping center
West (City)	Commercial	C-1	Retention & retail commercial

**LAND USE &**

**TRAFFIC COMPATIBILITY:** The subject property is accessed by a major collector (E Semoran Boulevard).

**COMPREHENSIVE  
 PLAN COMPLIANCE:**

The proposed C-2 zoning is consistent with the City’s Commercial Future Land Use designation and with the character of the surrounding area and future proposed development. The C-2 zoning classification is one of the acceptable zoning categories allowed within the Commercial Future Land Use category. Development Plans shall not exceed the density allowed in the adopted Future Land Use Designation.

**C-2 DISTRICT  
 REQUIREMENTS:**

- Minimum Living Area: NA
- Minimum Site Area: 10,000 sq. ft.
- Minimum Lot Width: 100 ft.
- Setbacks:
  - Front: 10 ft.
  - Rear: 10 ft. (30 ft. from Residential)
  - Side: 10 ft.
  - Corner: 15 ft.

Based on the above zoning standards, the subject site does not comply with the C-2 side setback requirements, but is considered a legal, non-conforming use.

**BUFFERYARD  
 REQUIREMENTS:**

Areas adjacent to all road right-of-ways shall provide a minimum ten-foot landscaped bufferyard. Areas adjacent to agricultural and residential uses or districts shall provide a minimum six-foot-high masonry wall within a ten-foot landscaped bufferyard. Areas adjacent to non-residential uses or districts shall provide a minimum five-foot landscaped bufferyard.

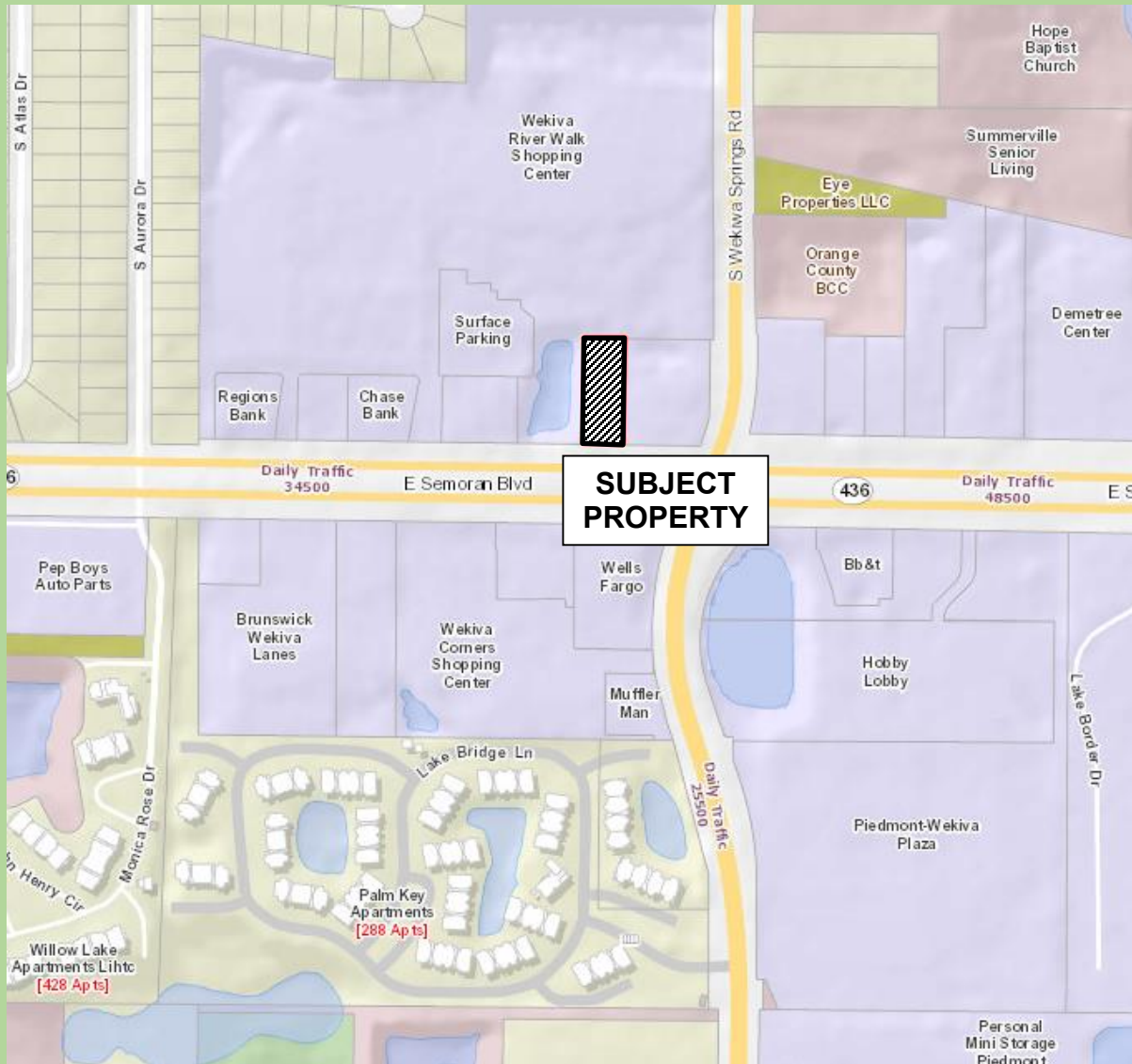
**ALLOWABLE USES:**

Automobile service stations, not including truck stops, mechanical garages provided no body work or painting services are provided on-site. New and used cars, modular and pre-fab home displays, and boat sales and mechanical services. Nurseries and greenhouses which sell and/or distribute products wholesale. Radio broadcasting and telecasting stations, studios and offices. Motorcycle sales and services. Any permitted use in the PO/I, CN, and C-1 districts. Other uses which are similar and compatible to the uses permitted herein which adhere to the intent of the district and which are not prohibited as specified in this code.



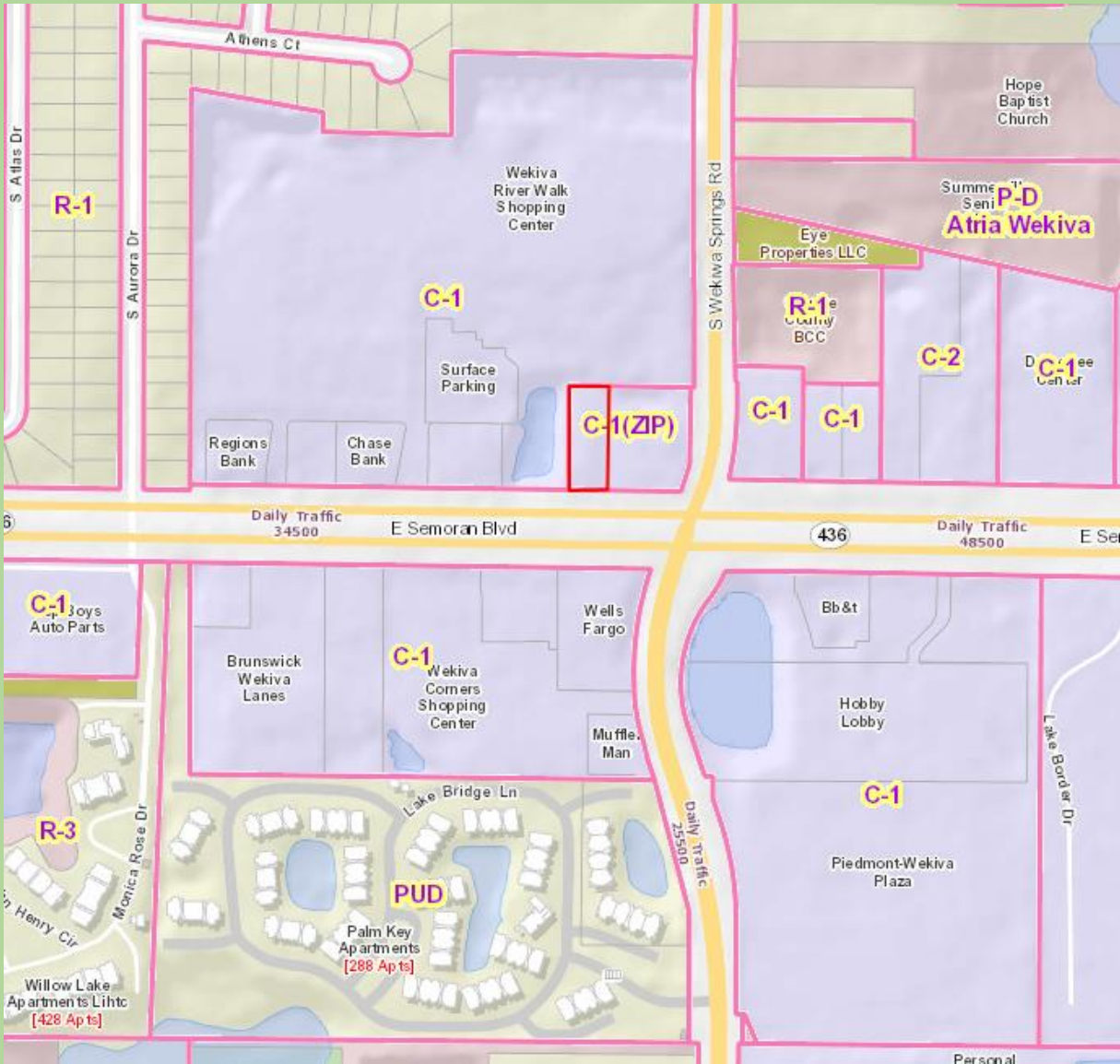
**Action Gator Tire**  
**0.61 +/- Acres**  
**Proposed Zoning Change:**  
**From: “County” C-1 (ZIP) (Commercial) (12,000 sq. ft. min. lot)**  
**To: “City” C-2 (General Commercial) (10,000 sq. ft. min. lot)**  
**Parcel ID #: 12-21-28-6896-00-730**

**VICINITY MAP**



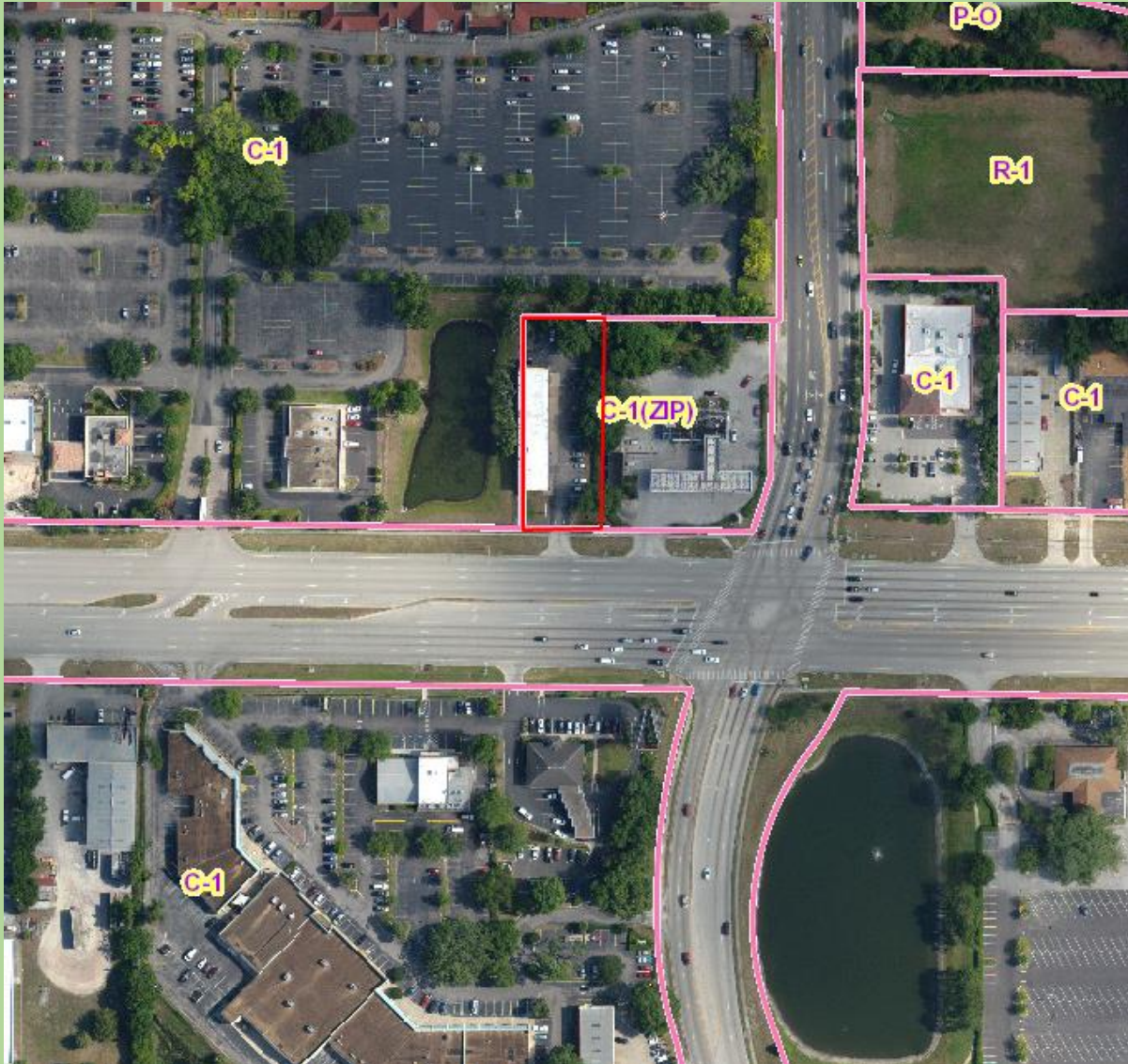


### ADJACENT ZONING



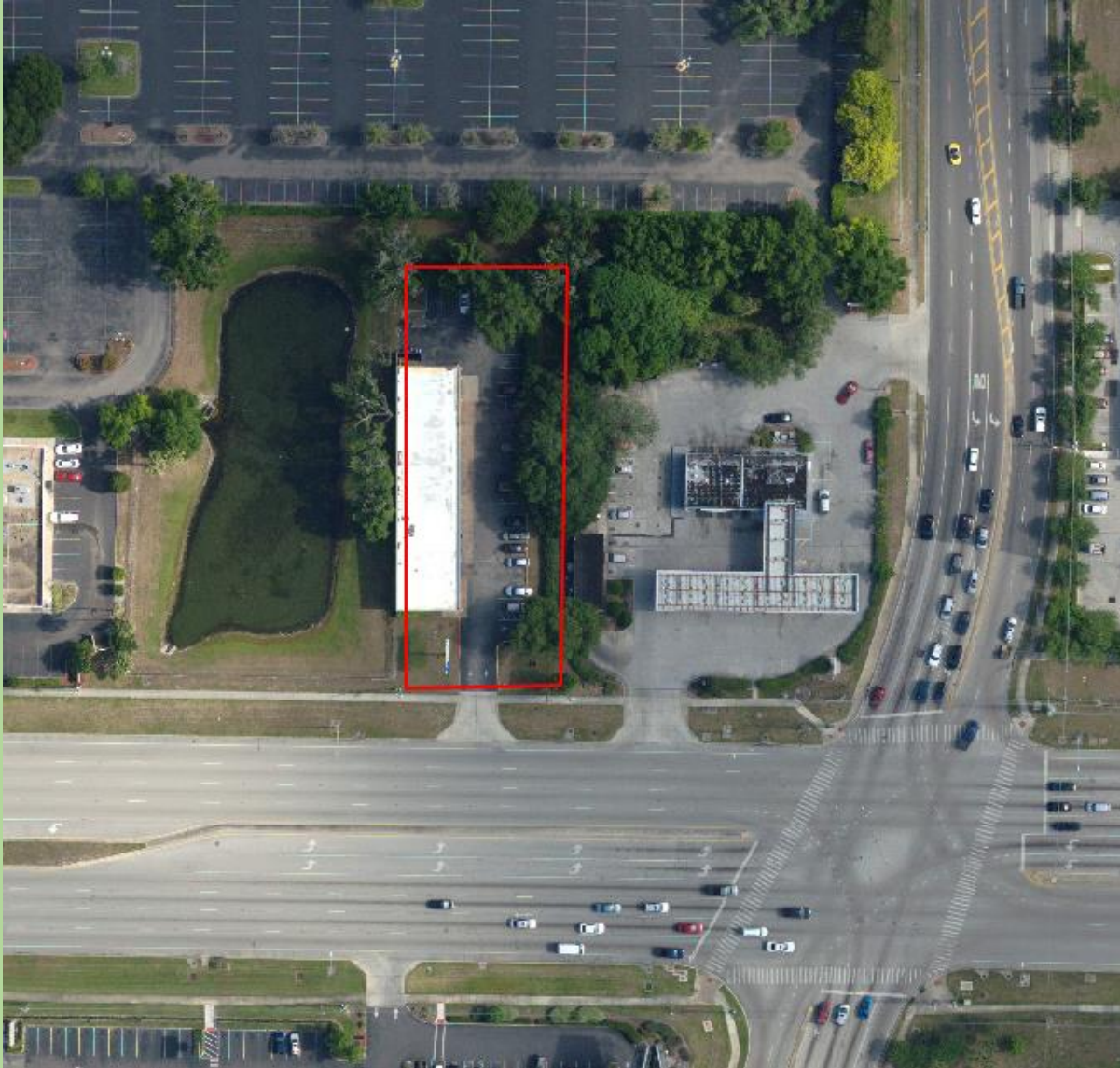


### ADJACENT USES





**EXISTING  
USES**







# CITY OF APOPKA CITY COUNCIL

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<input checked="" type="checkbox"/> PUBLIC HEARING	DATE:	April 20, 2016
<input type="checkbox"/> ANNEXATION	FROM:	Community Development
<input type="checkbox"/> PLAT APPROVAL	EXHIBITS:	Zoning Report
<input type="checkbox"/> OTHER:		Vicinity Map
		Adjacent Zoning Map
		Adjacent Uses Map
		Existing Uses

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**SUBJECT:** RACETRAC PETROLEUM, INC. (CASE # 2016-1-12)

**PARCEL ID NUMBER:** 12-21-28-0000-00-018

**Request:** ADMINISTRATIVE REZONING  
FROM: "COUNTY" C-1 (ZIP) (COMMERCIAL)  
TO: "CITY" C-2 (GENERAL COMMERCIAL)

**SUMMARY**

OWNER: RaceTrac Petroleum, Inc.

APPLICANT: City of Apopka

LOCATION: North of E Semoran Boulevard, west of S Lake Cortez Drive

EXISTING USE: Gas station and convenience store

FUTURE LAND USE: Commercial

ZONING: C-1 (ZIP)

PROPOSED DEVELOPMENT: Gas station and convenience store (existing)

PROPOSED ZONING: C-2

TRACT SIZE: 1.31 +/- Acres

MAXIMUM ALLOWABLE DEVELOPMENT:

EXISTING ZONING:	17,119 sq. ft.
PROPOSED ZONING:	14,265 sq. ft.

**DISTRIBUTION**

Mayor Kilsheimer	Finance Director	Public Ser. Director
Commissioners (4)	HR Director	City Clerk
City Administrator Irby	IT Director	Fire Chief
Community Dev. Director	Police Chief	

**ADDITIONAL COMMENTS:** Policy 3.9 of the Apopka Comprehensive Plan 2030 requires that a “city” zoning classification be assigned to annexed properties. The subject properties were annexed into the City of Apopka on July 3, 1996, through the adoption of Ordinance No. 943. Staff is requesting an administrative rezoning for the subject properties to comply with the policy set forth in the Comprehensive Plan. The proposed city zoning category is comparable to the densities and intensities and uses allowed under the existing “county” zoning classification, and the proposed zoning change is compatible with the character of the surrounding area.

The subject property is adjacent to “County” C-1 property to the west, which contains a mini-storage development, as well as “City” PO/I professional office development to the south and a “City” PUD zoning district to the east, which contains hotel development. The existing and proposed use of the subject site for a gas station is permitted within the proposed C-2 zoning district and compatible with surrounding zoning and uses.

Staff has analyzed the proposed amendment and determined that adequate public facilities exist to support this zoning change (see attached Zoning Report).

**COMPREHENSIVE PLAN COMPLIANCE:** The proposed zoning classification is consistent with the Future Land Use Designation assigned to the property.

**SCHOOL CAPACITY REPORT:** The request of the proposed rezoning is for a non-residential zoning classification and, therefore, a school capacity enhancement agreement with OCPS is not necessary.

**JOINT PLANNING AREA/OVERLAY:** The subject property is located within the “Core Area” of the Joint Planning Area with Orange County. The subject property is not located within any other city overall or protection area.

**ORANGE COUNTY NOTIFICATION:** The JPA requires the City to notify the County 30 days before any public hearing or advisory board. The City properly notified Orange County on February 5, 2016.

**PROPERTY OWNER NOTIFICATION:** The property owner was notified of this administrative rezoning and public hearing dates at least thirty (30) days prior to the adoption public hearing.

**PUBLIC HEARING SCHEDULE:**

March 8, 2016 – Planning Commission (5:30 pm)  
April 6, 2016 - City Council (1:30 pm) - 1st Reading  
April 20, 2016 – City Council (7:00 pm) - 2nd Reading

**DULY ADVERTISED:**

February 19, 2016 – Public Hearing Notice Ad  
April 8, 2016 – Ordinance Heading Ad

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**RECOMMENDED ACTION:**

The **Development Review Committee** recommends approval of the change in Zoning from “County” C-1 (ZIP) to “City” C-2.

The **Planning Commission**, at its meeting on March 8, 2016, recommended approval (5-0) of the change in Zoning from “County” C-1 (ZIP) to “City” C-2.

The **City Council**, at its meeting on April 6, 2016, accepted the First Reading of Ordinance No. 2480 and held it over for Second Reading and Adoption on April 20, 2016.

Adopt Ordinance No. 2480.

**Note: This item is considered Quasi-Judicial. The staff report and its findings are to be incorporated into and made a part of the minutes of this meeting.**

**ZONING REPORT**

**RELATIONSHIP TO ADJACENT PROPERTIES:**

<i>Direction</i>	<i>Future Land Use</i>	<i>Zoning</i>	<i>Present Use</i>
North (County)	Commercial	C-1	Self-storage
East (City)	Mixed Use	PUD	Hotel and vacant
South (City)	Office	PO/I	R-O-W & Professional office
West (County)	Commercial	C-1	Self-storage

**LAND USE &**

**TRAFFIC COMPATIBILITY:** The subject property is accessed by a major collector (E Semoran Boulevard).

**COMPREHENSIVE  
 PLAN COMPLIANCE:**

The proposed C-2 zoning is consistent with the City’s Commercial Future Land Use designation and with the character of the surrounding area and future proposed development. The C-2 zoning classification is one of the acceptable zoning categories allowed within the Commercial Future Land Use category. Development Plans shall not exceed the density allowed in the adopted Future Land Use Designation.

**C-2 DISTRICT  
 REQUIREMENTS:**

- Minimum Living Area: NA
- Minimum Site Area: 10,000 sq. ft.
- Minimum Lot Width 100 ft.
- Setbacks: Front: 10 ft.
- Rear: 10 ft. (30 ft. from Residential)
- Side: 10 ft.
- Corner 15 ft.

Based on the above zoning standards, the subject site complies with code requirements for the C-2 district.

**BUFFERYARD  
 REQUIREMENTS:**

Areas adjacent to all road right-of-ways shall provide a minimum ten-foot landscaped bufferyard. Areas adjacent to agricultural and residential uses or districts shall provide a minimum six-foot-high masonry wall within a ten-foot landscaped bufferyard. Areas adjacent to non-residential uses or districts shall provide a minimum five-foot landscaped bufferyard.

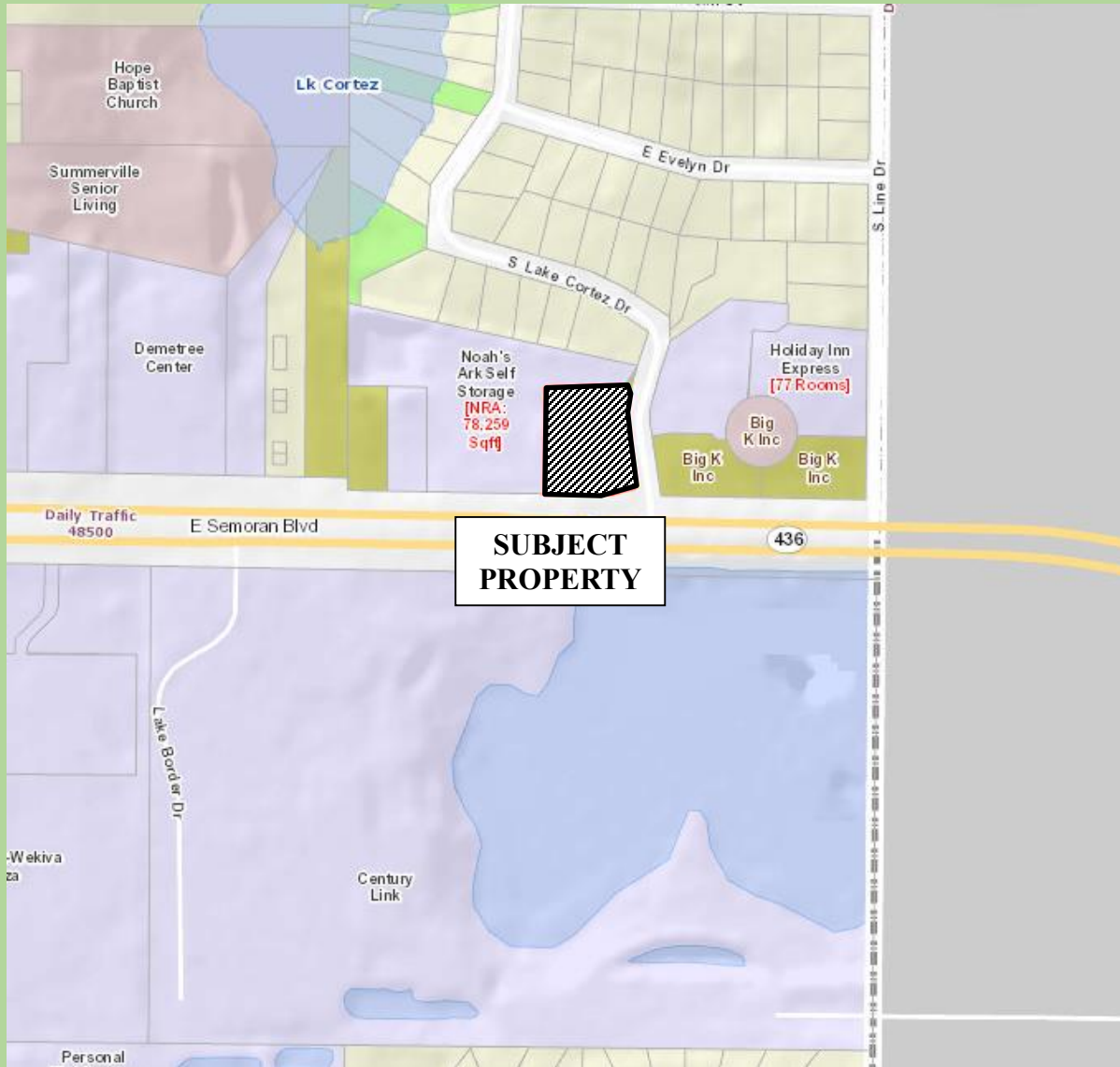
**ALLOWABLE USES:**

Automobile service stations, not including truck stops, mechanical garages provided no body work or painting services are provided on-site. New and used cars, modular and pre-fab home displays, and boat sales and mechanical services. Nurseries and greenhouses which sell and/or distribute products wholesale. Radio broadcasting and telecasting stations, studios and offices. Motorcycle sales and services. Any permitted use in the PO/I, CN, and C-1 districts. Other uses which are similar and compatible to the uses permitted herein which adhere to the intent of the district and which are not prohibited as specified in this code.



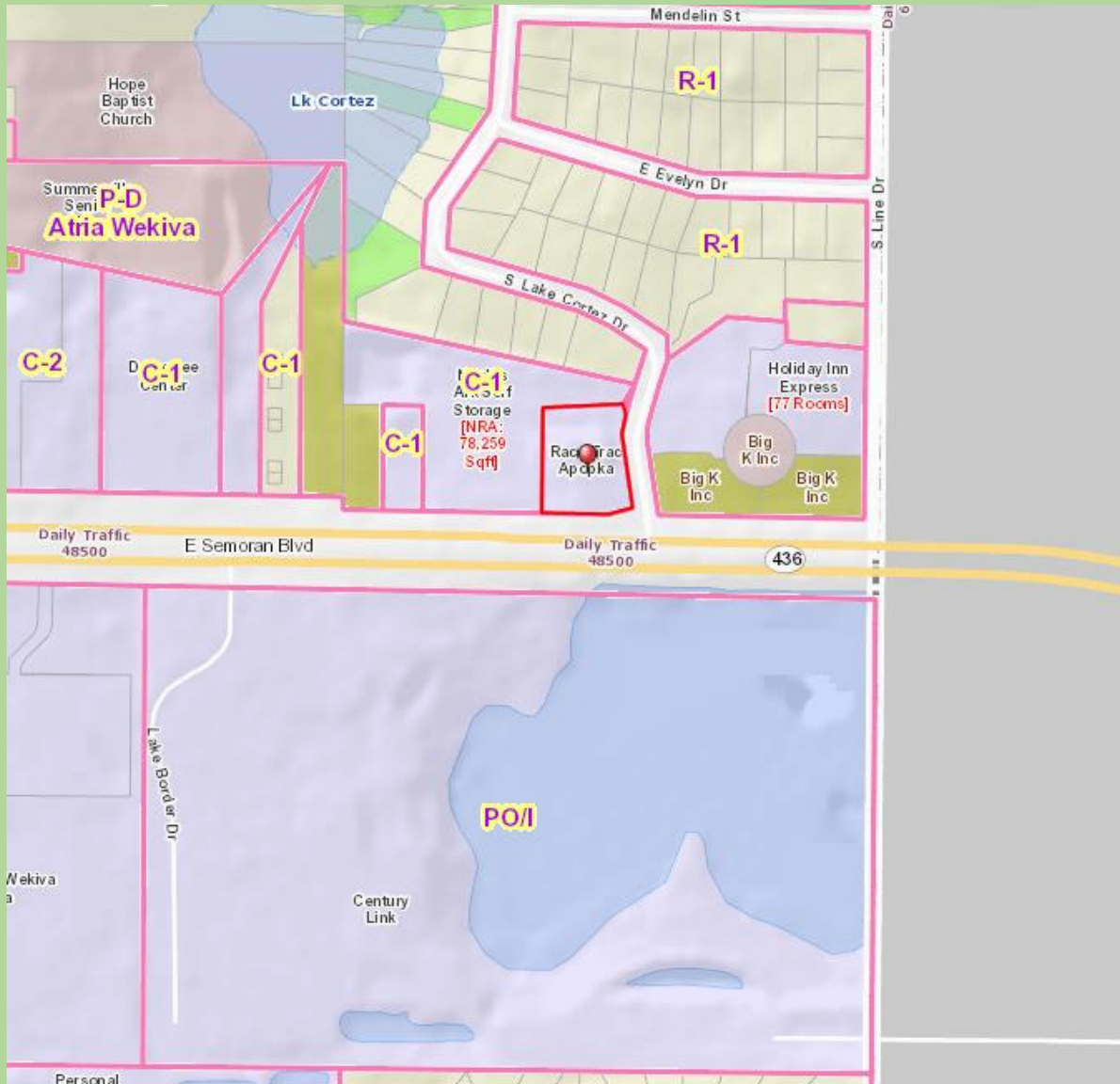
**RaceTrac Petroleum**  
**1.31 +/- Acres**  
**Proposed Zoning Change:**  
**From: "County" C-1 (ZIP) (Commercial) (12,000 sq. ft. min. lot)**  
**To: "City" C-2 (General Commercial) (10,000 sq. ft. min. lot)**  
**Parcel ID #: 12-21-28-0000-00-018**

**VICINITY MAP**



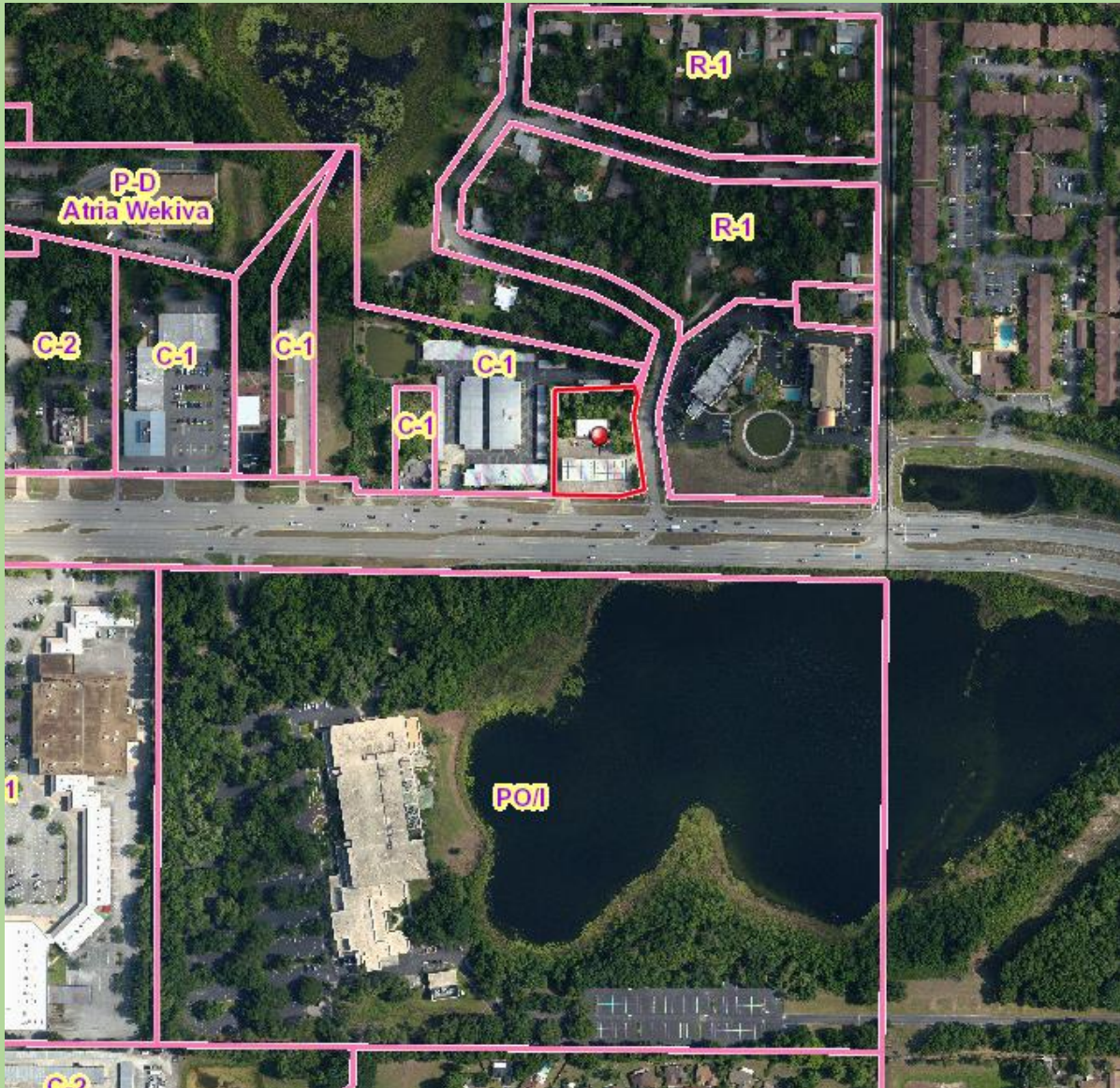


### ADJACENT ZONING



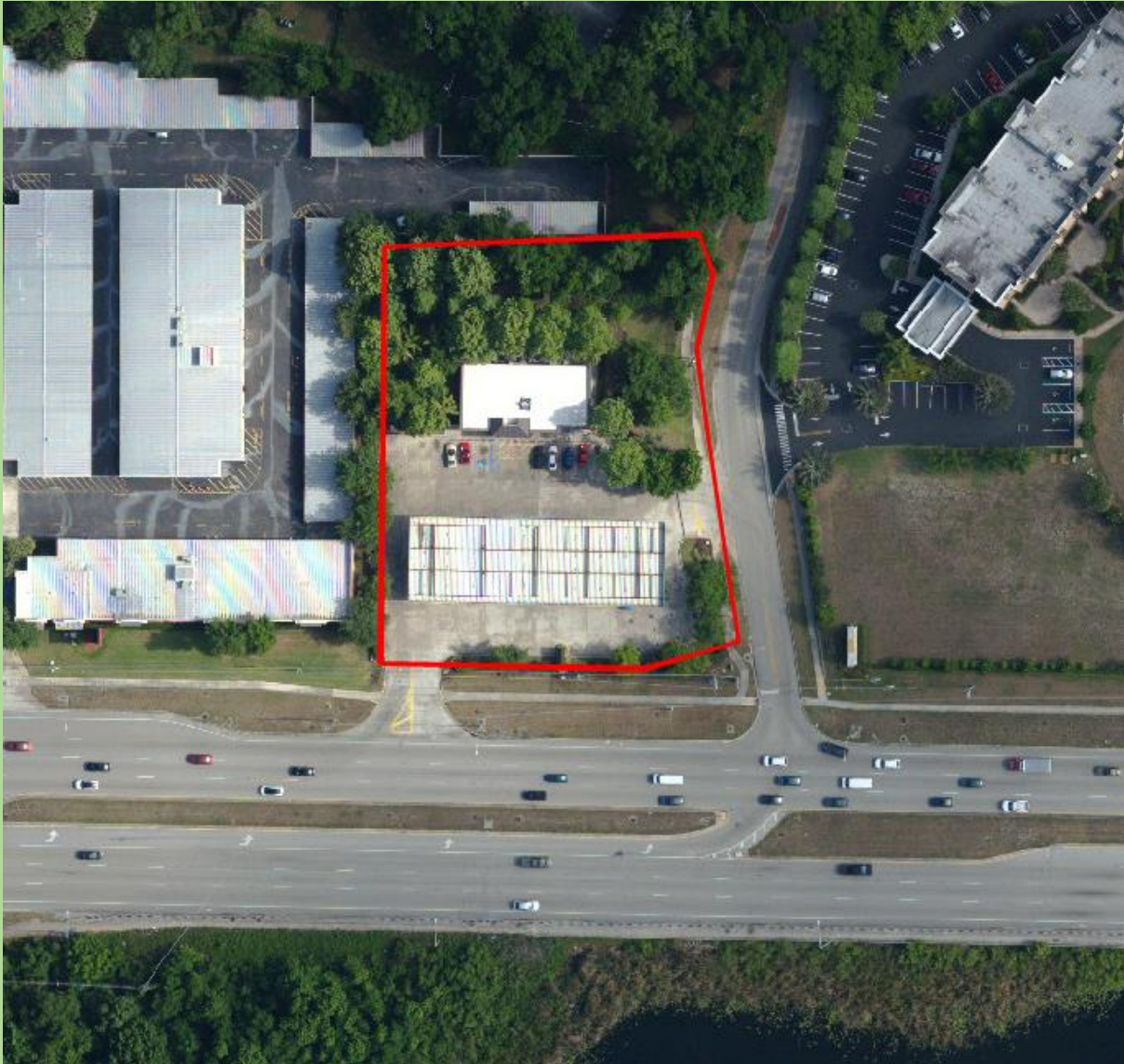


### ADJACENT USES





**EXISTING  
USES**





**Backup material for agenda item:**

6. Ordinance 2481 – Second Reading – 2016-1 Administrative Rezoning - Quasi-Judicial David Moon



# CITY OF APOPKA CITY COUNCIL

\_\_\_ CONSENT AGENDA  
\_\_\_ PUBLIC HEARING  
\_\_\_ SPECIAL REPORTS  
\_\_\_ OTHER:

MEETING OF: April 20, 2016  
FROM: Community Development  
EXHIBITS: I-2 (ZIP) Spreadsheet  
I-4 (ZIP) Spreadsheet  
Ordinance No. 2481  
Zoning Reports

**SUBJECT:** 2016-1 ADMINISTRATIVE REZONING - FROM "COUNTY" I-2 (ZIP) AND I-4 (ZIP) TO "CITY" I-1 (RESTRICTED INDUSTRIAL)

**REQUEST:** SECOND READING & ADOPTION OF ORDINANCE NO. 2481 - 2016 ADMINISTRATIVE REZONING; FROM "COUNTY" I-2 (ZIP) AND I-4 (ZIP) TO "CITY" I-1 (RESTRICTED INDUSTRIAL).

**SUMMARY:**

The five (5) parcels, comprising a total of 10.54 +/- acres, have been annexed into the City of Apopka and have been assigned Future Land Use designations compatible with the proposed I-1 zoning designation. The subject properties currently have a City Future Land Use Designation of Industrial (IND) and a County zoning category of I-2 (ZIP) and I-4 (ZIP) assigned to them. A summary of the zoning cases are provided in I-2 (ZIP) and I-4 (ZIP) spreadsheets.

A brief summary of the administrative rezoning cases:

<u>I-2 (ZIP) Properties</u>		<u>I-4 (ZIP) Properties</u>	
# of Parcels:	4	# of Parcels:	1
# of Property Owners:	3	# of Property Owners:	1
Acreage:	8.82 +/- acres	Acreage:	1.72 +/- acres

The attached exhibits provide a summary of the proposed zoning amendments. The property owners have been notified via certified mail that a zoning category comparable to the County designation will be assigned to their property. Individual zoning reports have been prepared for the zoning cases. The zoning reports are provided in Exhibit "C".

Pursuant to the Interlocal Agreement between the City and Orange County (2004), policy of the City's Comprehensive Plan (Policy 3.9) and State law (s 163.3202, F.S.), the City is required to assign a zoning category to lands that are annexed into the City's jurisdiction. To comply with these requirements, city staff is recommending that the City assign a zoning category that is most compatible to the current zoning category that was assigned by Orange County.

**FUNDING SOURCE:** Not Applicable.

**DISTRIBUTION**

Mayor Kilsheimer  
Commissioners  
City Administrator  
Community Development Director

Finance Director  
HR Director  
IT Director  
Police Chief

Public Services Director  
Recreation Director  
City Clerk  
Fire Chief

**SCHOOL CAPACITY REPORT:** The proposed zoning district is non-residential and, therefore, a school capacity enhancement agreement is not necessary.

**ORANGE COUNTY NOTIFICATION:** The JPA requires the City to notify the County 30 days before any public hearing or advisory board. The City notified Orange County on February 5, 2016.

**PUBLIC HEARING SCHEDULE:**

March 8, 2016 – Planning Commission (5:30 pm)  
April 6, 2016 – City Council (1:30 pm) – 1st Reading  
April 20, 2016 – City Council (8:00 pm) – 2<sup>nd</sup> Reading

**DULY ADVERTISED:**

February 19, 2016 – Public Notice and Notification  
April 8, 2016 – Ordinance Heading Ad

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**RECOMMENDATION ACTION:**

The **Development Review Committee** recommends approval of the change in Zoning from “County” I-2 (ZIP) & “County” I-4 (ZIP) to “City” I-1 (Restricted Industrial), as set forth in the attached spreadsheets, for the properties described therein.

The **Planning Commission**, at its meeting on March 8, 2016, recommended approval (5-0) of the change in Zoning from “County” I-2 (ZIP) & “County” I-4 (ZIP) to “City” I-1 (Restricted Industrial), as set forth in the attached spreadsheets, for the properties described therein.

The **City Council**, at its meeting on April 6, 2016, accepted the First Reading of Ordinance No. 2481 and held it over for Second Reading and Adoption on April 20, 2016.

Adopt Ordinance No. 2481.

**Note: This item is considered Quasi-Judicial. The staff report and its findings are to be incorporated into and made a part of the minutes of this meeting.**

**EXHIBIT "A"**  
**2016-1 ADMINISTRATIVE REZONING**  
**FROM "COUNTY" I-2 TO "CITY" I-1**

<b>Case #</b>	<b>Parcel ID</b>	<b>Property Owner</b>	<b>Acreage +/-</b>	<b>Future Land Use</b>	<b>Current Zoning</b>	<b>Proposed Zoning</b>
2016-1-16	24-21-28-0000-00-033	David L Potopas	1.72	IND	I-2(ZIP)	I-1

**EXHIBIT "B"**  
**2016-1 ADMINISTRATIVE REZONING**  
**FROM "COUNTY" I-4 TO "CITY" I-1**

<b>Case #</b>	<b>Parcel ID</b>	<b>Property Owner</b>	<b>Acreage +/-</b>	<b>Future Land Use</b>	<b>Current Zoning</b>	<b>Proposed Zoning</b>
2016-1-13	01-21-27-0000-00-081	Marilyn Boughan Trust	5.04	IND*	I-4(ZIP)	I-1
2016-1-14	06-21-28-7172-03-310	Patricia & Irvin Leaders Trust	1.26	IND*	I-4(ZIP)	I-1
2016-1-14	06-21-28-7172-03-320	Patricia & Irvin Leaders Trust	1.26	IND*	I-4(ZIP)	I-1
2016-1-15	06-21-28-7172-03-330	LTR Properties	1.26	IND*	I-4(ZIP)	I-1

\* Future Land Use Element Policy 3.15 applies (Maximum FAR 0.50)

**ORDINANCE NO. 2481**

**AN ORDINANCE OF THE CITY OF APOPKA, FLORIDA, CHANGING THE ZONING FROM “COUNTY” I-2 (ZIP) AND I-4 (ZIP) TO “CITY” I-1 (RESTRICTED INDUSTRIAL) FOR CERTAIN REAL PROPERTIES GENERALLY LOCATED WITHIN THE CITY LIMITS OF APOPKA, COMPRISING 10.54 ACRES, MORE OR LESS, AND OWNED BY DAVID L. POTOPAS; MARILYN BOUGHAN TRUST; PATRICIA & IRVIN LEADERS TRUST; AND LTR PROPERTIES, INC.; PROVIDING FOR DIRECTIONS TO THE COMMUNITY DEVELOPMENT DIRECTOR, SEVERABILITY, CONFLICTS, AND AN EFFECTIVE DATE.**

**WHEREAS**, to manage the growth, the City of Apopka, Florida, finds it in the best interest of the public health, safety and welfare of its citizens to establish zoning classifications within the City; and

**WHEREAS**, the City of Apopka Community Development Department, has requested an administrative change in zoning on said property as identified in Section I of this ordinance; and

**WHEREAS**, pursuant to the Interlocal Agreement between the City and Orange County (2004), policy of the City’s Comprehensive Plan Future Land Use Element (Policy 3.9), and State law (s 163.3202, F.S.), the City is required to assign a zoning category to lands that are annexed into the City’s jurisdiction.; and

**WHEREAS**, the proposed I-1 zoning has been found to be consistent with the City of Apopka Comprehensive Plan, and the City of Apopka Land Development Code.

**NOW THEREFORE, BE IT ORDAINED**, by the City Council of the City of Apopka, Florida, as follows:

**Section I.** That the zoning classification of the following described properties, being situated in the City of Apopka, Florida, is hereby I-1 as defined in the Apopka Land Development Code:

<b>Parcel ID</b>	<b>Property Owner</b>	<b>Acreage +/-</b>	<b>Land Use</b>	<b>Current Zoning</b>	<b>Proposed Zoning</b>
24-21-28-0000-00-033	David L Potopas	1.72	IND	I-2 (ZIP)	I-1
01-21-27-0000-00-081	Marilyn Boughan Trust	5.04	IND*	I-4 (ZIP)	I-1
06-21-28-7172-03-310	Patricia & Irvin Leaders Trust	1.26	IND*	I-4 (ZIP)	I-1
06-21-28-7172-03-320	Patricia & Irvin Leaders Trust	1.26	IND*	I-4 (ZIP)	I-1
06-21-28-7172-03-330	LTR Properties, Inc.	1.26	IND*	I-4 (ZIP)	I-1

\* Future Land Use Element Policy 3.15 applies (Maximum FAR 0.50)

**Section II.** That the zoning classification is consistent with the Comprehensive Plan of the City of Apopka, Florida.

**Section III.** That the Community Development Director, or the Director’s designee, is hereby authorized to amend, alter, and implement the official zoning maps of the City of Apopka, Florida, to include said designation.

**ORDINANCE NO. 2481**

**PAGE 2**

**Section IV.** That if any section or portion of a section or subsection of this Ordinance proves to be invalid, unlawful, or unconstitutional, it shall not be held to invalidate or impair the validity, force or effect of any other section or portion of section or subsection or part of this ordinance.

**Section V.** That all ordinances or parts of ordinances in conflict herewith are hereby repealed.

**Section VI.** That this Ordinance shall take effect upon the date of adoption.

READ FIRST TIME: April 6, 2016

READ SECOND TIME  
AND ADOPTION: April 20, 2016

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Joseph E. Kilsheimer, Mayor

ATTEST:

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Linda Goff, City Clerk

DULY ADVERTISED: February 19, 2016  
April 8, 2016



# CITY OF APOPKA CITY COUNCIL

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<input checked="" type="checkbox"/> PUBLIC HEARING	DATE: April 20, 2016
<input type="checkbox"/> ANNEXATION	FROM: Community Development
<input type="checkbox"/> PLAT APPROVAL	EXHIBITS: Zoning Report
<input type="checkbox"/> OTHER:	Vicinity Map
	Adjacent Zoning Map
	Adjacent Uses Map
	Existing Uses

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**SUBJECT:** DAVID L. POTOPAS (CASE # 2016-1-16)

**PARCEL ID NUMBER:** 24-21-28-0000-00-033

**Request:** ADMINISTRATIVE REZONING  
FROM: "COUNTY" I-4 (ZIP) (INDUSTRIAL)  
TO: "CITY" I-1 (RESTRICTED INDUSTRIAL)

**SUMMARY**

OWNER: David L. Potopas

APPLICANT: City of Apopka

LOCATION: South of Apopka Boulevard, east of N Hiawassee Road

EXISTING USE: Outdoor storage of amusement rides and trailers

FUTURE LAND USE: Industrial (max FAR 0.60)

ZONING: I-2 (ZIP)

PROPOSED DEVELOPMENT: Outdoor storage of amusement rides and trailers (existing)

PROPOSED ZONING: I-1

TRACT SIZE: 1.72 +/- Acres

MAXIMUM ALLOWABLE DEVELOPMENT:

EXISTING ZONING:	22,476 sq. ft.
PROPOSED ZONING:	44,953 sq. ft.

**DISTRIBUTION**

Mayor Kilsheimer	Finance Director	Public Ser. Director
Commissioners (4)	HR Director	City Clerk
City Administrator Irby	IT Director	Fire Chief
Community Dev. Director	Police Chief	



**ADDITIONAL COMMENTS:** Policy 3.9 of the Apopka Comprehensive Plan 2030 requires that a “city” zoning classification be assigned to annexed properties. The subject property was annexed into the City of Apopka on December 19, 2007, through the adoption of Ordinance No. 2012. Staff is requesting an administrative rezoning for the subject properties to comply with the policy set forth in the Comprehensive Plan. The proposed city zoning category is comparable to the densities and intensities and uses allowed under the existing “county” zoning classification, and the proposed zoning change is compatible with the character of the surrounding area.

The subject property is located in an area characterized by varied uses and zoning classifications. The property is adjacent to “City” I-1 zoning to the south, as well as “county” industrial zoning districts to the west which contain light industrial uses. Vacant I-2 and C-1 zoning is present to the north, with single-family “City” R-2 zoning to northwest across N Hiawassee Road, making the proposed “City” I-1 zoning classification compatible with the general character of the surrounding neighborhood. The current use of the subject property is the outdoor storage of amusement rides and trailers, which is considered a legal, non-conforming use subject to Sec. 10.01 of the Apopka Land Development Code.

Staff has analyzed the proposed amendment and determined that adequate public facilities exist to support this zoning change (see attached Zoning Report).

**COMPREHENSIVE PLAN COMPLIANCE:** The proposed zoning classification is consistent with the Future Land Use Designation assigned to the property.

**SCHOOL CAPACITY REPORT:** The request of the proposed rezoning is for a non-residential zoning classification and, therefore, a school capacity enhancement agreement with OCPS is not necessary.

**JOINT PLANNING AREA/OVERLAY:** The subject properties are located within the “Core Area” of the Joint Planning Area with Orange County. The subject properties are not located within any other city overall or protection area.

**ORANGE COUNTY NOTIFICATION:** The JPA requires the City to notify the County 30 days before any public hearing or advisory board. The City properly notified Orange County on February 5, 2016.

**PROPERTY OWNER NOTIFICATION:** The property owner was notified of this administrative rezoning and public hearing dates at least thirty (30) days prior to the adoption public hearing.

**PUBLIC HEARING SCHEDULE:**

March 8, 2016 – Planning Commission (5:30 pm)  
April 6, 2016 - City Council (1:30 pm) - 1st Reading  
April 20, 2016 – City Council (7:00 pm) - 2nd Reading

**DULY ADVERTISED:**

February 19, 2016 – Public Hearing Notice Ad  
April 8, 2016 – Ordinance Heading Ad

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**RECOMMENDED ACTION:**

The **Development Review Committee** recommends approval of the change in Zoning from “County” I-2 (ZIP) to “City” I-1.

The **Planning Commission**, at its meeting on March 8, 2016, recommended approval (5-0) of the change in Zoning from “County” I-2 (ZIP) & “County” I-4 (ZIP) to “City” I-1, as set forth in the attached spreadsheets, for the properties described therein.

The **City Council**, at its meeting on April 6, 2016, accepted the First Reading of Ordinance No. 2481 and held it over for Second Reading and Adoption on April 20, 2016.

Adopt Ordinance No. 2481.

**Note: This item is considered Quasi-Judicial. The staff report and its findings are to be incorporated into and made a part of the minutes of this meeting.**

**ZONING REPORT**

**RELATIONSHIP TO ADJACENT PROPERTIES:**

<i>Direction</i>	<i>Future Land Use</i>	<i>Zoning</i>	<i>Present Use</i>
North (City)	Industrial (max FAR 0.60) & Commercial (max FAR 0.25)	I-2 & C-1	Vacant industrial & Vacant commercial
East (City)	Industrial (max FAR 0.60)	I-1	Vacant industrial
East (City)	Industrial (max FAR 0.60)	I-1	Vacant industrial
West (County)	Industrial (max FAR 0.60)	IND-2/IND-3	Light industrial

**LAND USE &**

**TRAFFIC COMPATIBILITY:** The subject property is accessed by a local roadway (S Apopka Boulevard).

**COMPREHENSIVE  
 PLAN COMPLIANCE:**

The proposed I-1 zoning is consistent with the City’s Industrial Future Land Use designation and with the character of the surrounding area and future proposed development. The I-1 zoning classification is one of the acceptable zoning categories allowed within the Industrial Future Land Use category. Development Plans shall not exceed the density allowed in the adopted Future Land Use Designation.

**I-1 DISTRICT  
 REQUIREMENTS:**

- Minimum Living Area: NA
- Minimum Site Area: 15,000 sq. ft.
- Minimum Lot Width: 100 ft.
- Setbacks: Front: 25 ft.
- Rear: 10 ft. (30 ft. from Residential)
- Side: 10 ft.
- Corner: 25 ft.

Based on the above zoning standards, the subject site complies with code requirements for the I-1 district.

**BUFFERYARD  
 REQUIREMENTS:**

Areas adjacent to all road right-of-ways shall provide a minimum 25-foot landscaped bufferyard. Areas adjacent to agricultural uses or districts shall provide a minimum of ten feet abutting the property line with landscaping and a six-foot-high masonry wall. Areas adjacent to residential uses or districts shall provide a six-foot-high masonry wall within a minimum of 50-foot landscaped bufferyard. Industrial uses adjacent to nonresidential, non-industrial uses or districts shall provide one of the following:

- a. A minimum of 25 feet abutting the property with landscaping and an earth berm, measuring three feet with a 3:1 slope; or
- b. A minimum six-foot-high masonry wall within a minimum of ten-foot landscaped bufferyard.

Industrial uses occurring adjacent to existing industrial districts or uses shall be required to provide a ten-foot landscaped bufferyard.

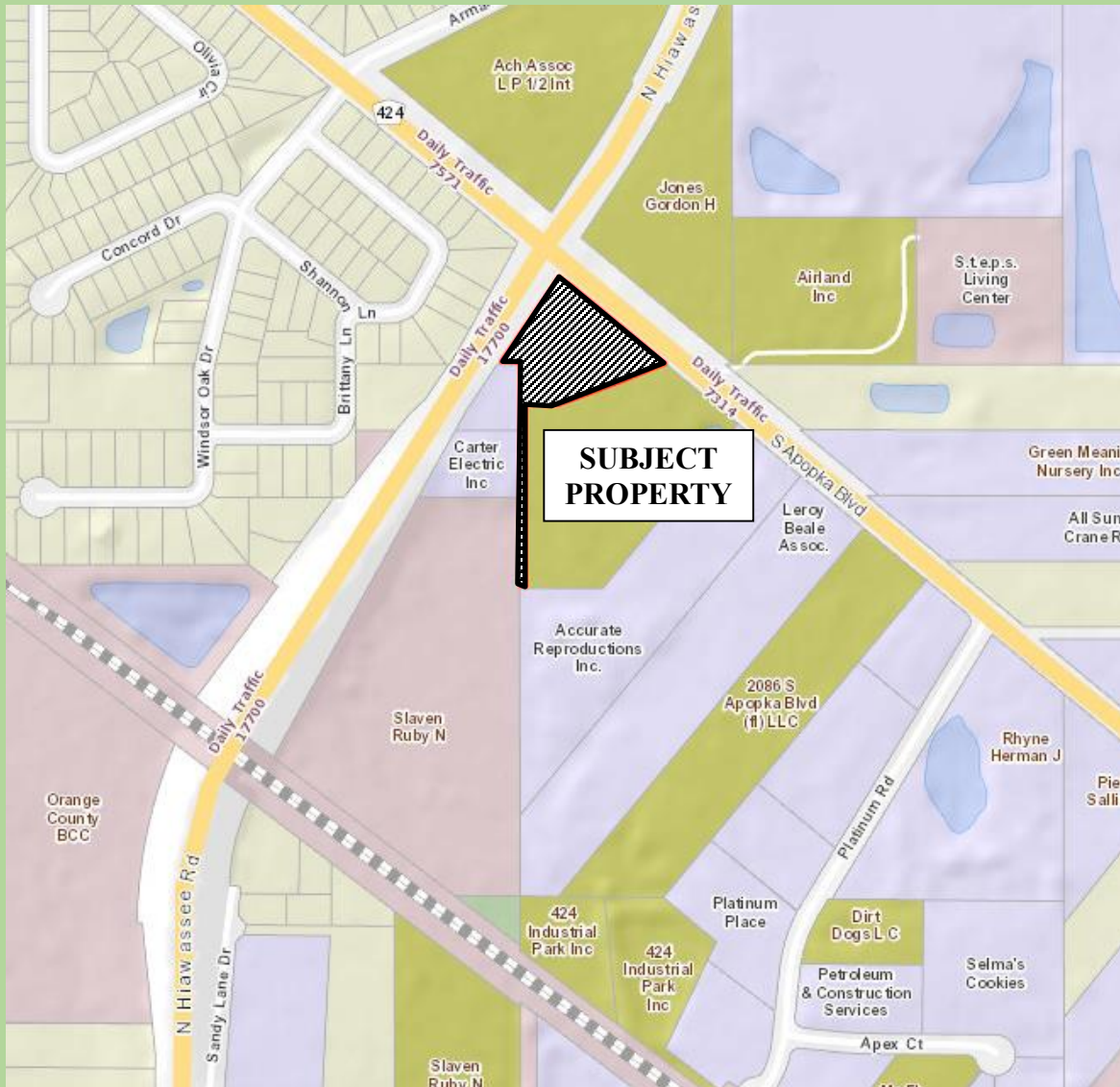
**ALLOWABLE USES:**

Manufacture and processing of novelties, souvenirs, bakery or confectionery products, garments, scientific, electrical, optical, furniture, ceramics, and other manufacturing. Bus, cab and truck repair. Dyeing, dry cleaning and laundering. Machinery sales, machine shops, meat storage, cutting and distribution. Warehouses, bottling and distribution plants; ice cream manufacturers. Cold storage and frozen food lockers, and other uses which are similar and compatible to the uses permitted herein which adhere to the intent of the district and which are not prohibited as specified in this code. Any C-3 Commercial District permitted use.



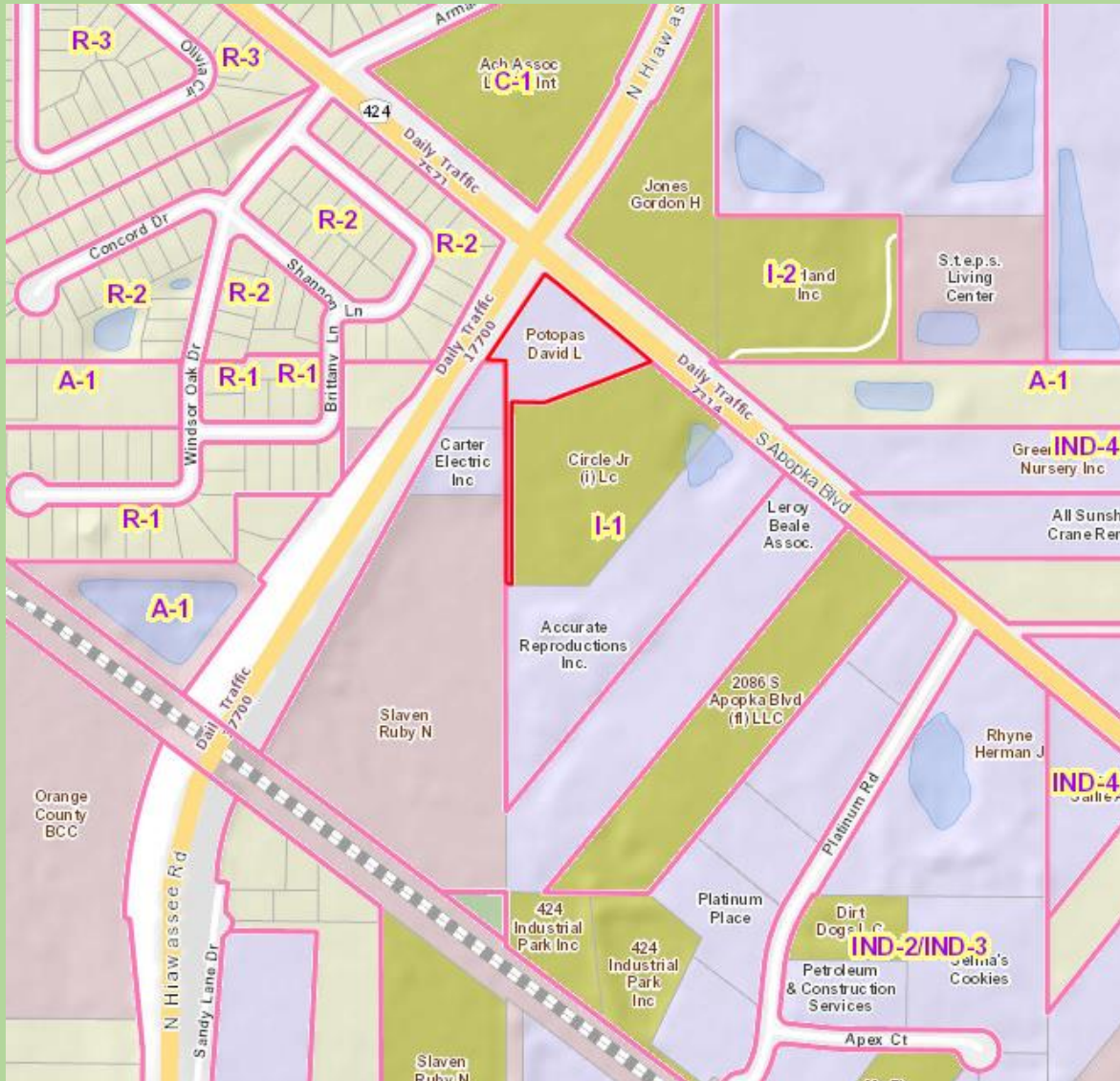
**David L Potopas**  
**1.72 +/- Acres**  
**Proposed Zoning Change:**  
**From: "County" I-2 (ZIP) (Industrial) (No min. lot)**  
**To: "City" I-1 (Restricted Industrial) (15,000 sq. ft. min. lot)**  
**Parcel ID #: 24-21-28-0000-00-033**

**VICINITY MAP**





### ADJACENT ZONING



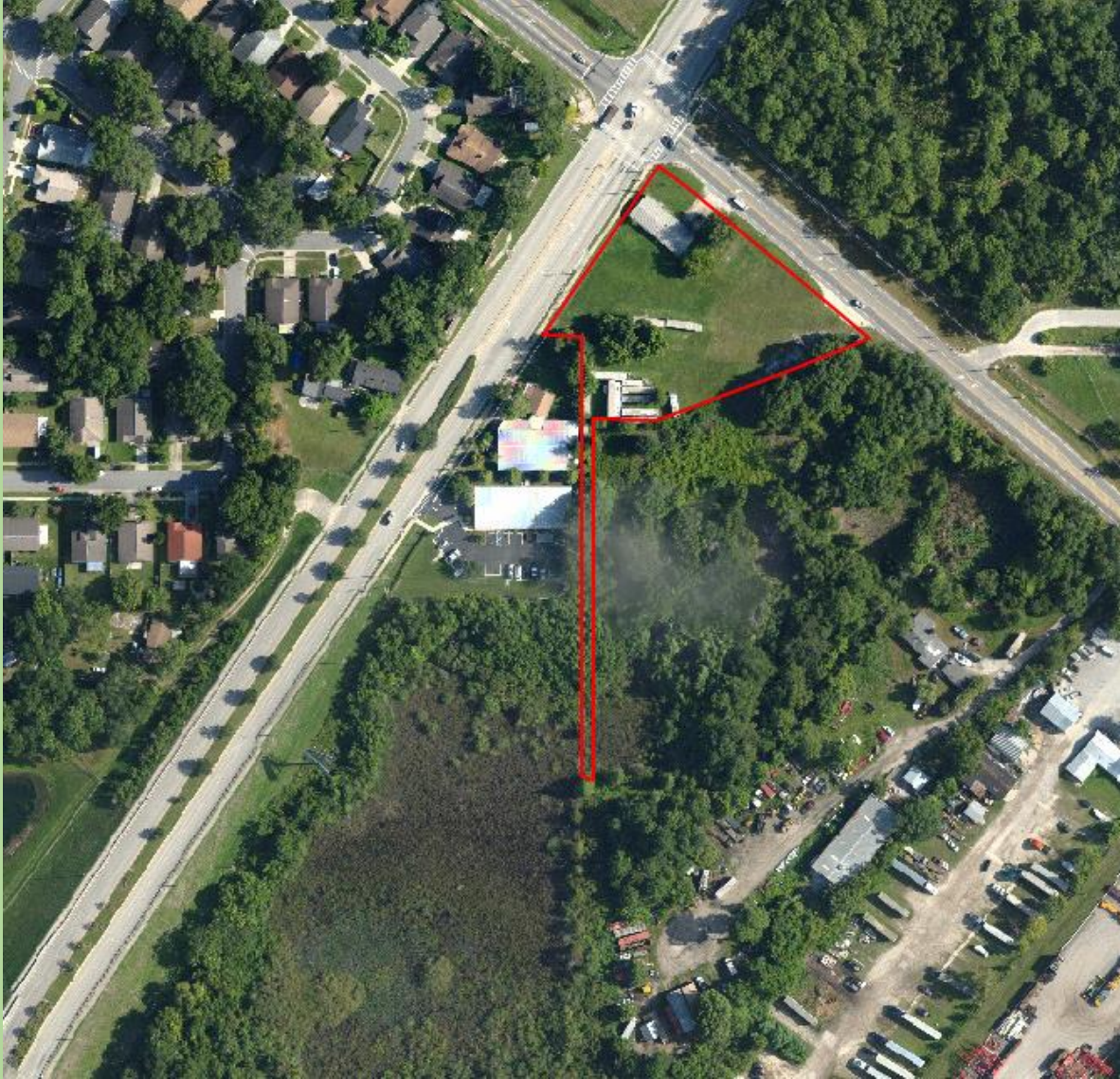


### ADJACENT USES





**EXISTING  
USES**







# CITY OF APOPKA CITY COUNCIL

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<input checked="" type="checkbox"/> PUBLIC HEARING	DATE: April 20, 2016
<input type="checkbox"/> ANNEXATION	FROM: Community Development
<input type="checkbox"/> PLAT APPROVAL	EXHIBITS: Zoning Report
<input type="checkbox"/> OTHER:	Vicinity Map
	Adjacent Zoning Map
	Adjacent Uses Map
	Existing Uses

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**SUBJECT:** MARILYN BOUGHAN TRUST (CASE # 2016-1-13)

**PARCEL ID NUMBER:** 01-21-27-0000-00-081

**Request:** ADMINISTRATIVE REZONING  
**FROM:** "COUNTY" I-4 (ZIP) (INDUSTRIAL)  
**TO:** "CITY" I-1 (RESTRICTED INDUSTRIAL)

**SUMMARY**

**OWNER:** Marilyn Boughan Trust

**APPLICANT:** City of Apopka

**LOCATION:** East of Hermit Smith Road, south of Superior Commerce Boulevard

**EXISTING USE:** Outdoor semi-trailer storage

**FUTURE LAND USE:** Industrial\* (Future Land Use Policy 3.15 applies - 0.50 FAR)

**ZONING:** I-4 (ZIP)

**PROPOSED DEVELOPMENT:** Outdoor semi-trailer storage (existing)

**PROPOSED ZONING:** I-1

**TRACT SIZE:** 5.04 +/- Acres

**MAXIMUM ALLOWABLE DEVELOPMENT:**

EXISTING ZONING:	164,656 sq. ft.
PROPOSED ZONING:	109,771 sq. ft.

**DISTRIBUTION**

Mayor Kilsheimer	Finance Director	Public Ser. Director
Commissioners (4)	HR Director	City Clerk
City Administrator Irby	IT Director	Fire Chief
Community Dev. Director	Police Chief	

**ADDITIONAL COMMENTS:** Policy 3.9 of the Apopka Comprehensive Plan 2030 requires that a “city” zoning classification be assigned to annexed properties. The subject property was annexed into the City of Apopka on February 2, 2005, through the adoption of Ordinance No. 1733. Staff is requesting an administrative rezoning for the subject properties to comply with the policy set forth in the Comprehensive Plan. The proposed city zoning category is comparable to the densities and intensities and uses allowed under the existing “county” zoning classification, and the proposed zoning change is compatible with the character of the surrounding area.

The subject property is surrounded by existing “City” I-1 zoning classifications and uses. The current use of the subject property is for semi-trailer storage, which is considered a legal, non-conforming use subject to Sec. 10.01 of the Apopka Land Development Code. In addition, any future development on the property will be subject to Policy 3.15 of the Apopka Comprehensive Plan, which limits the maximum floor area ratio (FAR) to 0.50.

Staff has analyzed the proposed amendment and determined that adequate public facilities exist to support this zoning change (see attached Zoning Report).

**COMPREHENSIVE PLAN COMPLIANCE:** The proposed zoning classification is consistent with the Future Land Use Designation assigned to the property.

**SCHOOL CAPACITY REPORT:** The request of the proposed rezoning is for a non-residential zoning classification and, therefore, a school capacity enhancement agreement with OCPS is not necessary.

**JOINT PLANNING AREA/OVERLAY:** The subject property is located within the “Plymouth Area” of the Joint Planning Area with Orange County. The subject property is not located within any other city or protection area.

**ORANGE COUNTY NOTIFICATION:** The JPA requires the City to notify the County 30 days before any public hearing or advisory board. The City properly notified Orange County on February 5, 2016.

**PROPERTY OWNER NOTIFICATION:** The property owner was notified of this administrative rezoning and public hearing dates at least thirty (30) days prior to the adoption public hearing.

**PUBLIC HEARING SCHEDULE:**

March 8, 2016 – Planning Commission (5:30 pm)  
April 6, 2016 - City Council (1:30 pm) - 1st Reading  
April 20, 2016 – City Council (7:00 pm) - 2nd Reading

**DULY ADVERTISED:**

February 19, 2016 – Public Hearing Notice Ad  
April 8, 2016 – Ordinance Heading Ad

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**RECOMMENDED ACTION:**

The **Development Review Committee** recommends approval of the change in Zoning from “County” I-4 (ZIP) to “City” I-1.

The **Planning Commission**, at its meeting on March 8, 2016, recommended approval (5-0) of the change in Zoning from “County” I-2 (ZIP) & “County” I-4 (ZIP) to “City” I-1, as set forth in the attached spreadsheets, for the properties described therein.

The **City Council**, at its meeting on April 6, 2016, accepted the First Reading of Ordinance No. 2481 and held it over for Second Reading and Adoption on April 20, 2016.

Adopt Ordinance No. 2481.

**Note: This item is considered Quasi-Judicial. The staff report and its findings are to be incorporated into and made a part of the minutes of this meeting.**

**ZONING REPORT**

**RELATIONSHIP TO ADJACENT PROPERTIES:**

<i>Direction</i>	<i>Future Land Use</i>	<i>Zoning</i>	<i>Present Use</i>
North (City)	Industrial	I-4 (ZIP)	Warehousing
East (City)	Industrial	I-1	Vacant industrial
South (City)	Mixed Use	R-1AA & Mixed-EC	Vacant
West (City)	Industrial	I-1	Vacant industrial

**LAND USE &**

**TRAFFIC COMPATIBILITY:** The subject property is accessed by a local roadway (Hermit Smith Road).

**COMPREHENSIVE  
 PLAN COMPLIANCE:**

The proposed I-1 zoning is consistent with the City’s Industrial Future Land Use designation and with the character of the surrounding area and future proposed development. The I-1 zoning classification is one of the acceptable zoning categories allowed within the Industrial Future Land Use category. Development Plans shall not exceed the density allowed in the adopted Future Land Use Designation.

**I-1 DISTRICT  
 REQUIREMENTS:**

- Minimum Living Area: NA
- Minimum Site Area: 15,000 sq. ft.
- Minimum Lot Width: 100 ft.
- Setbacks: Front: 25 ft.
- Rear: 10 ft. (30 ft. from Residential)
- Side: 10 ft.
- Corner: 25 ft.

Based on the above zoning standards, the subject site complies with code requirements for the I-1 district.

**BUFFERYARD  
 REQUIREMENTS:**

Areas adjacent to all road right-of-ways shall provide a minimum 25-foot landscaped bufferyard. Areas adjacent to agricultural uses or districts shall provide a minimum of ten feet abutting the property line with landscaping and a six-foot-high masonry wall. Areas adjacent to residential uses or districts shall provide a six-foot-high masonry wall within a minimum of 50-foot landscaped bufferyard. Industrial uses adjacent to nonresidential, non-industrial uses or districts shall provide one of the following:

- a. A minimum of 25 feet abutting the property with landscaping and an earth berm, measuring three feet with a 3:1 slope; or
- b. A minimum six-foot-high masonry wall within a minimum of ten-foot landscaped bufferyard.

Industrial uses occurring adjacent to existing industrial districts or uses shall be required to provide a ten-foot landscaped bufferyard.

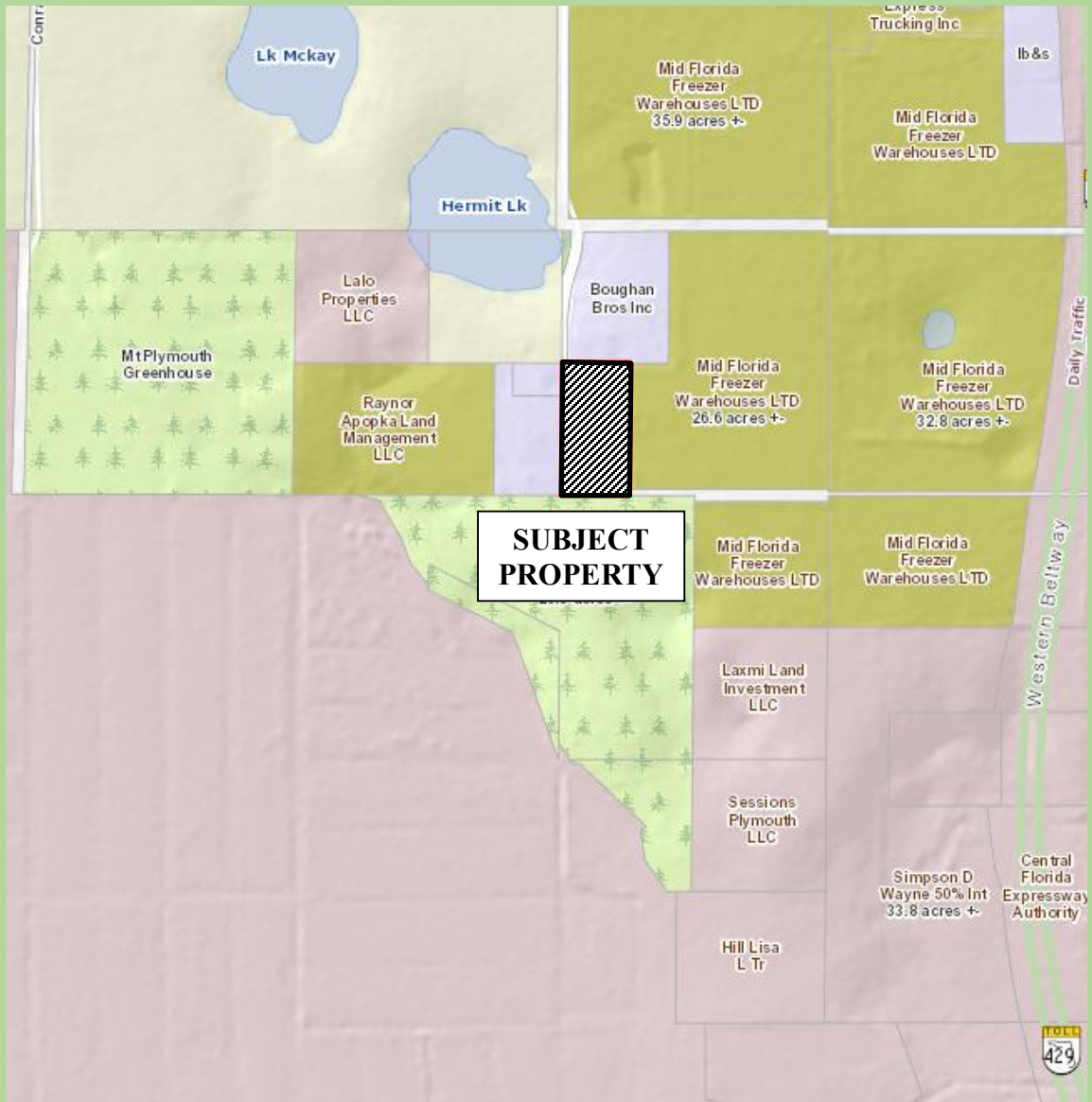
**ALLOWABLE USES:**

Manufacture and processing of novelties, souvenirs, bakery or confectionery products, garments, scientific, electrical, optical, furniture, ceramics, and other manufacturing. Bus, cab and truck repair. Dyeing, dry cleaning and laundering. Machinery sales, machine shops, meat storage, cutting and distribution. Warehouses, bottling and distribution plants; ice cream manufacturers. Cold storage and frozen food lockers, and other uses which are similar and compatible to the uses permitted herein which adhere to the intent of the district and which are not prohibited as specified in this code. Any C-3 Commercial District permitted use.



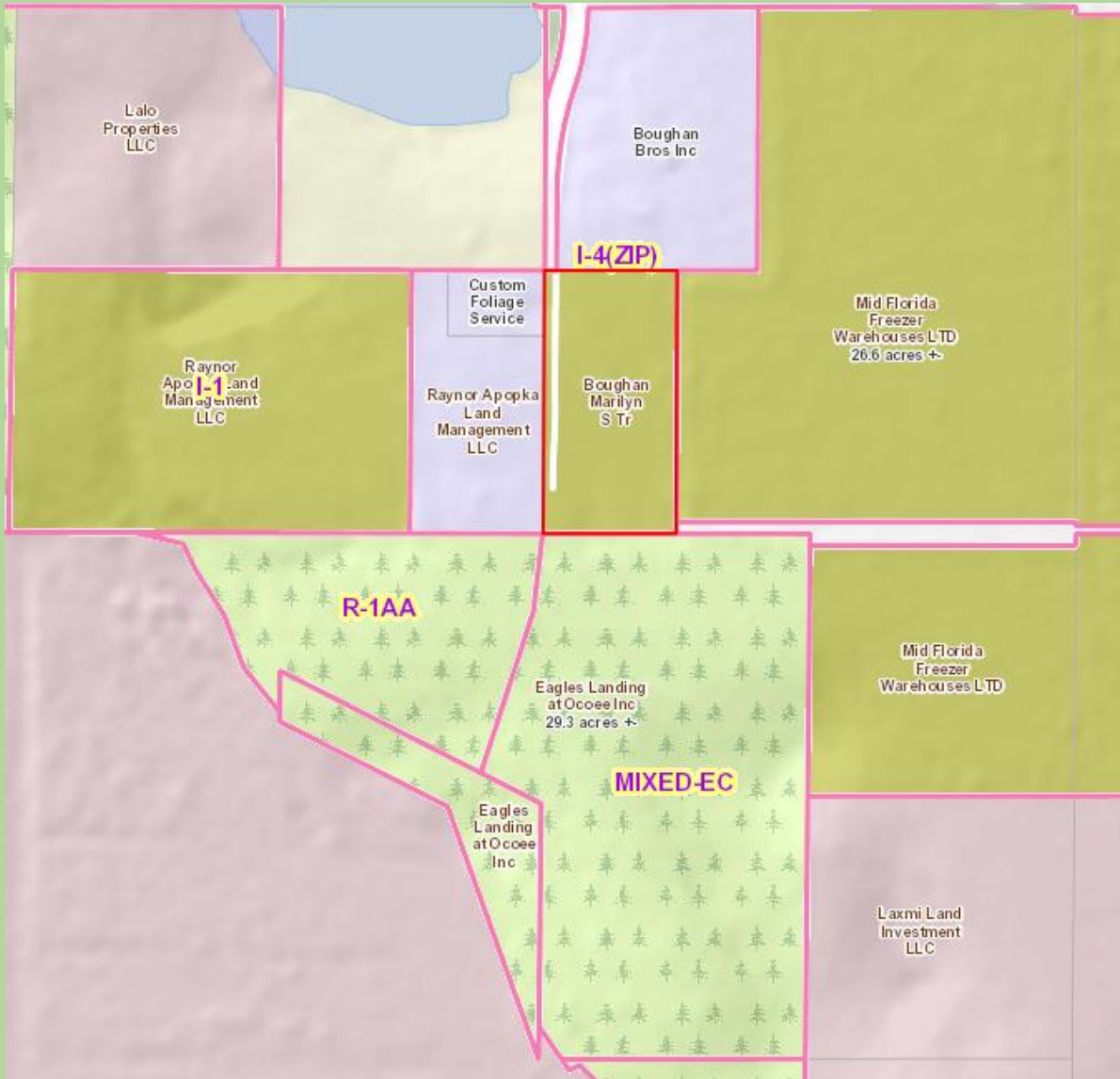
**Marilyn Boughan Trust**  
**5.04 +/- Acres**  
**Proposed Zoning Change:**  
**From: "County" I-4 (ZIP) (Commercial) (No min. lot)**  
**To: "City" I-1 (Restricted Industrial) (15,000 sq. ft. min. lot)**  
**Parcel ID #: 01-21-27-0000-00-081**

**VICINITY MAP**





### ADJACENT ZONING





### ADJACENT USES







**EXISTING  
USES**





# CITY OF APOPKA CITY COUNCIL

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<input checked="" type="checkbox"/> PUBLIC HEARING	DATE: April 20, 2016
<input type="checkbox"/> ANNEXATION	FROM: Community Development
<input type="checkbox"/> PLAT APPROVAL	EXHIBITS: Zoning Report
<input type="checkbox"/> OTHER:	Vicinity Map
	Adjacent Zoning Map
	Adjacent Uses Map
	Existing Uses

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**SUBJECT:** PATRICIA A. & IRVIN H. LEADERS TRUST (CASE # 2016-1-14)

**PARCEL ID NUMBERS:** 06-21-28-7172-03-310 & 06-21-28-7172-03-320

**Request:** ADMINISTRATIVE REZONING  
FROM: "COUNTY" I-4 (ZIP) (INDUSTRIAL)  
TO: "CITY" I-1 (RESTRICTED INDUSTRIAL)

**SUMMARY**

OWNER: Patricia A. & Irvin H. Leaders Trust

APPLICANT: City of Apopka

LOCATION: North of General Electric Road, east of Hermit Smith Road

EXISTING USE: Warehousing and wholesale/light industrial suppliers

FUTURE LAND USE: Industrial\* (Future Land Use Policy 3.15 applies – 0.50 FAR)

ZONING: I-4 (ZIP)

PROPOSED DEVELOPMENT: Warehousing and wholesale/light industrial suppliers (existing)

PROPOSED ZONING: I-1

TRACT SIZE: 2.52 +/- Acres

MAXIMUM ALLOWABLE DEVELOPMENT:

EXISTING ZONING:	32,931 sq. ft.
PROPOSED ZONING:	54,885 sq. ft.

**DISTRIBUTION**

Mayor Kilsheimer	Finance Director	Public Ser. Director
Commissioners (4)	HR Director	City Clerk
City Administrator Irby	IT Director	Fire Chief
Community Dev. Director	Police Chief	

**ADDITIONAL COMMENTS:** Policy 3.9 of the Apopka Comprehensive Plan 2030 requires that a “city” zoning classification be assigned to annexed properties. The subject property was annexed into the City of Apopka on February 2, 2005, through the adoption of Ordinance No. 1733. Staff is requesting an administrative rezoning for the subject properties to comply with the policy set forth in the Comprehensive Plan. The proposed city zoning category is comparable to the densities and intensities and uses allowed under the existing “county” zoning classification, and the proposed zoning change is compatible with the character of the surrounding area.

The subject property is surrounded by existing “City” I-1 zoning classifications and uses to the north, east and west, as well as vacant “City” I-1 zoning to the south. The current use of the subject properties is for warehousing and various wholesale suppliers/light manufacturing, which is permitted within the I-1 zoning district. Development on these properties are subject to Policy 3.15 of the Apopka Comprehensive Plan, which limits the maximum floor area ratio (FAR) to 0.50.

Staff has analyzed the proposed amendment and determined that adequate public facilities exist to support this zoning change (see attached Zoning Report).

**COMPREHENSIVE PLAN COMPLIANCE:** The proposed zoning classification is consistent with the Future Land Use Designation assigned to the property.

**SCHOOL CAPACITY REPORT:** The request of the proposed rezoning is for a non-residential zoning classification and, therefore, a school capacity enhancement agreement with OCPS is not necessary.

**JOINT PLANNING AREA/OVERLAY:** The subject properties are located within the “Plymouth Area” of the Joint Planning Area with Orange County. The subject properties are not located within any other city overall or protection area.

**ORANGE COUNTY NOTIFICATION:** The JPA requires the City to notify the County 30 days before any public hearing or advisory board. The City properly notified Orange County on February 5, 2016.

**PROPERTY OWNER NOTIFICATION:** The property owner was notified of this administrative rezoning and public hearing dates at least thirty (30) days prior to the adoption public hearing.

**PUBLIC HEARING SCHEDULE:**

March 8, 2016 – Planning Commission (5:30 pm)  
April 6, 2016 - City Council (1:30 pm) - 1st Reading  
April 20, 2016 – City Council (7:00 pm) - 2nd Reading

**DULY ADVERTISED:**

February 19, 2016 – Public Hearing Notice Ad  
April 8, 2016 – Ordinance Heading Ad

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**RECOMMENDED ACTION:**

The **Development Review Committee** recommends approval of the change in Zoning from “County” I-4 (ZIP) to “City” I-1.

The **Planning Commission**, at its meeting on March 8, 2016, recommended approval (5-0) of the change in Zoning from “County” I-2 (ZIP) & “County” I-4 (ZIP) to “City” I-1, as set forth in the attached spreadsheets, for the properties described therein.

The **City Council**, at its meeting on April 6, 2016, accepted the First Reading of Ordinance No. 2481 and held it over for Second Reading and Adoption on April 20, 2016.

Adopt Ordinance No. 2481.

**Note: This item is considered Quasi-Judicial. The staff report and its findings are to be incorporated into the minutes and made a part of the minutes of this meeting.**

**ZONING REPORT**

**RELATIONSHIP TO ADJACENT PROPERTIES:**

<i>Direction</i>	<i>Future Land Use</i>	<i>Zoning</i>	<i>Present Use</i>
North (City)	Industrial	I-1	Light manufacturing
East (City)	Industrial (max FAR 0.60)	I-1	Warehousing
South (City)	Industrial (max FAR 0.60)	I-1	Vacant industrial
West (City)	Industrial* (max FAR 0.50)	I-4 (ZIP)	Warehousing/light industrial/wholesale

**LAND USE &**

**TRAFFIC COMPATIBILITY:** The subject property is accessed by a local roadway (General Electric Road).

**COMPREHENSIVE  
 PLAN COMPLIANCE:**

The proposed I-1 zoning is consistent with the City’s Industrial Future Land Use designation and with the character of the surrounding area and future proposed development. The I-1 zoning classification is one of the acceptable zoning categories allowed within the Industrial Future Land Use category. Development Plans shall not exceed the density allowed in the adopted Future Land Use Designation.

**I-1 DISTRICT  
 REQUIREMENTS:**

- Minimum Living Area: NA
- Minimum Site Area: 15,000 sq. ft.
- Minimum Lot Width: 100 ft.
- Setbacks:
  - Front: 25 ft.
  - Rear: 10 ft. (30 ft. from Residential)
  - Side: 10 ft.
  - Corner: 25 ft.

Based on the above zoning standards, the subject site complies with code requirements for the I-1 district.

**BUFFERYARD  
 REQUIREMENTS:**

Areas adjacent to all road right-of-ways shall provide a minimum 25-foot landscaped bufferyard. Areas adjacent to agricultural uses or districts shall provide a minimum of ten feet abutting the property line with landscaping and a six-foot-high masonry wall. Areas adjacent to residential uses or districts shall provide a six-foot-high masonry wall within a minimum of 50-foot landscaped bufferyard. Industrial uses adjacent to nonresidential, non-industrial uses or districts shall provide one of the following:

- a. A minimum of 25 feet abutting the property with landscaping and an earth berm, measuring three feet with a 3:1 slope; or
- b. A minimum six-foot-high masonry wall within a minimum of ten-foot landscaped bufferyard.

Industrial uses occurring adjacent to existing industrial districts or uses shall be required to provide a ten-foot landscaped bufferyard.

**ALLOWABLE USES:**

Manufacture and processing of novelties, souvenirs, bakery or confectionery products, garments, scientific, electrical, optical, furniture, ceramics, and other manufacturing. Bus, cab and truck repair. Dyeing, dry cleaning and laundering. Machinery sales, machine shops, meat storage, cutting and distribution. Warehouses, bottling and distribution plants; ice cream manufacturers. Cold storage and frozen food lockers, and other uses which are similar and compatible to the uses permitted herein which adhere to the intent of the district and which are not prohibited as specified in this code. Any C-3 Commercial District permitted use.



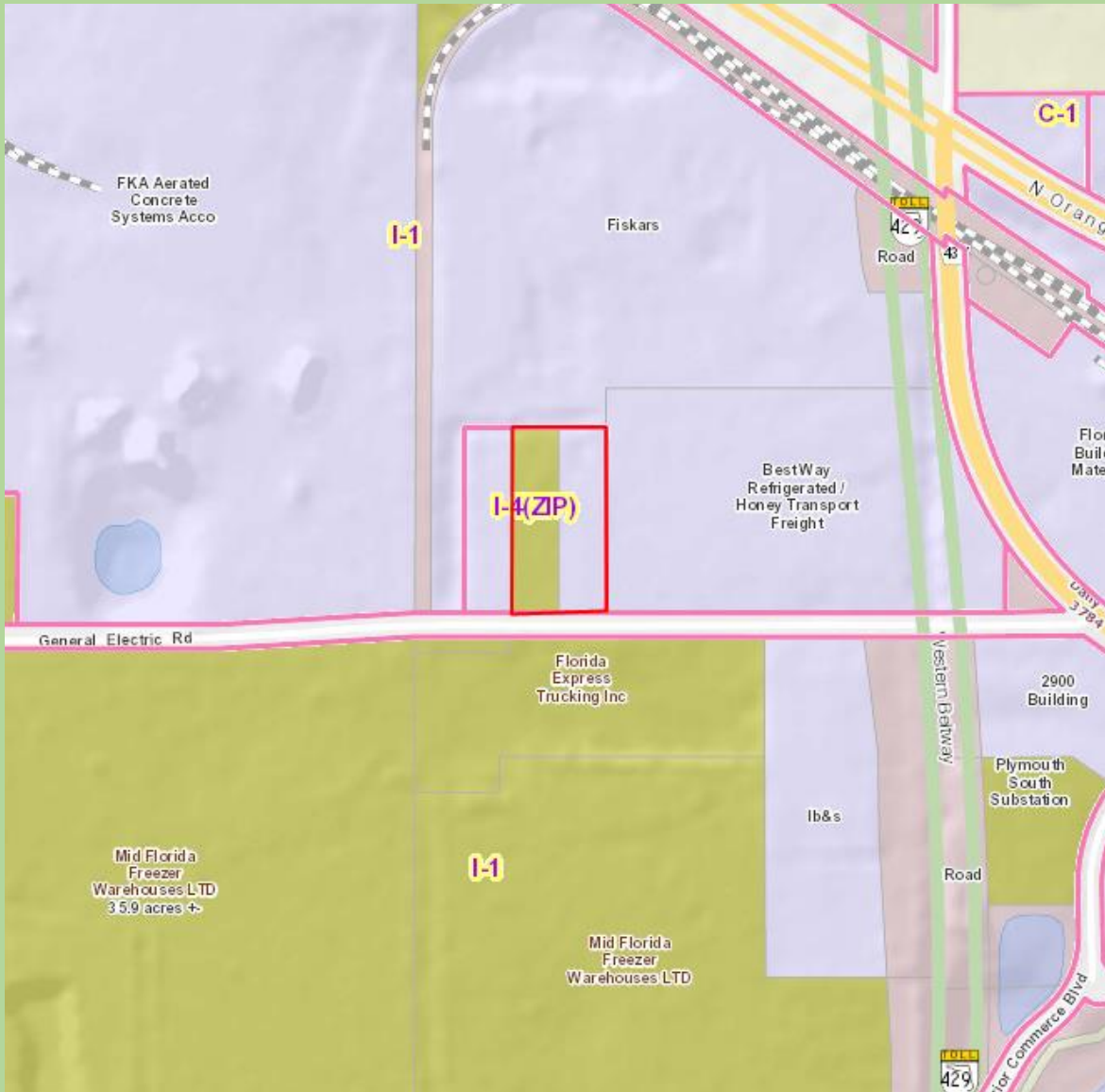
**Patricia & Irvin Leaders Trust**  
**2.52 +/- Acres**  
**Proposed Zoning Change:**  
**From: "County" I-4 (ZIP) (Industrial) (No min. lot)**  
**To: "City" I-1 (Restricted Industrial) (15,000 sq. ft. min. lot)**  
**Parcel ID #: 06-21-28-7172-03-310 & 06-21-28-7172-03-320**

**VICINITY MAP**



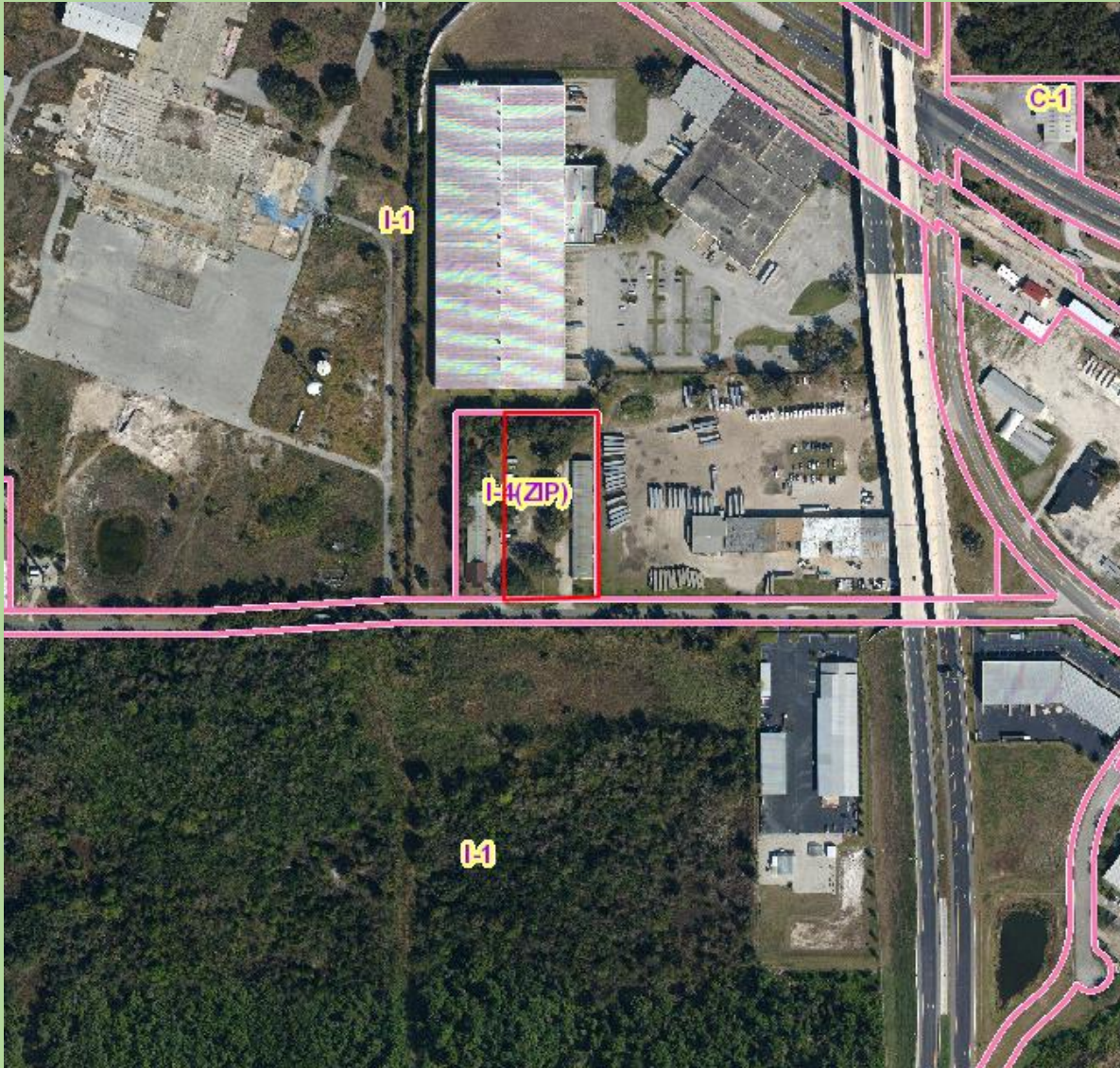


### ADJACENT ZONING





### ADJACENT USES





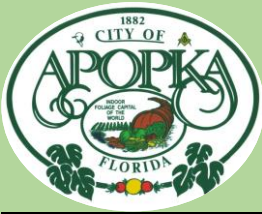


**EXISTING  
USES**



**Backup material for agenda item:**

7. Ordinance 2482 – Second Reading – 2016-1 Administrative Rezoning - Quasi-Judicial David Moon



# CITY OF APOPKA CITY COUNCIL

- \_\_\_ CONSENT AGENDA
- \_\_\_ PUBLIC HEARING
- \_\_\_ SPECIAL REPORTS
- \_\_\_ OTHER:

MEETING OF: April 20, 2016  
 FROM: Community Development  
 EXHIBITS: R-1 (ZIP) Spreadsheet  
 Ordinance No. 2482  
 Zoning Report

**SUBJECT: 2016-1 ADMINISTRATIVE REZONING - FROM "COUNTY" R-1 (ZIP) TO "CITY" R-1 (RESIDENTIAL)**

**REQUEST: SECOND READING & ADOPTION OF ORDINANCE NO. 2482 - 2016 ADMINISTRATIVE REZONING; FROM "COUNTY" R-1 (ZIP) TO "CITY" R-1 (RESIDENTIAL).**

**SUMMARY:**

The one parcel, comprising a total of 3.16 +/- acres, has been annexed into the City of Apopka and assigned a Future Land Use designations compatible with the proposed R-1 zoning designation. The subject property currently has a City Future Land Use Designation of Residential Low (RL) and a County zoning category of R-1 assigned to it. A summary of the zoning case is provided in Exhibit "A".

A brief summary of the administrative rezoning case:

<u>R-1 Properties</u>	
# of Parcels:	1
# of Property Owners:	1
Acreage:	3.16 +/- acres

The attached exhibits provide a summary of the proposed zoning amendments. The property owner has been notified via certified mail that a zoning category comparable to the County designation will be assigned to the property. A zoning report has been prepared for the zoning case.

Pursuant to the Interlocal Agreement between the City and Orange County (2004), policy of the City's Comprehensive Plan (Policy 3.9) and State law (s 163.3202, F.S.), the City is required to assign a zoning category to lands that are annexed into the City's jurisdiction. To comply with these requirements, city staff is recommending that the City assign a zoning category that is most compatible to the current zoning category that was assigned by Orange County.

**FUNDING SOURCE: Not Applicable.**

**DISTRIBUTION**

Mayor Kilsheimer  
 Commissioners  
 City Administrator  
 Community Development Director

Finance Director  
 HR Director  
 IT Director  
 Police Chief

Public Services Director  
 Recreation Director  
 City Clerk  
 Fire Chief

**SCHOOL CAPACITY REPORT:** The proposed zoning district is non-residential and, therefore, a school capacity enhancement agreement is not necessary.

**ORANGE COUNTY NOTIFICATION:** The JPA requires the City to notify the County 30 days before any public hearing or advisory board. The City notified Orange County on February 5, 2016.

**PUBLIC HEARING SCHEDULE:**

March 8, 2016 – Planning Commission (5:30 pm)  
April 6, 2016 – City Council (1:30 pm) – 1st Reading  
April 20, 2016 – City Council (8:00 pm) – 2<sup>nd</sup> Reading

**DULY ADVERTISED:**

February 19, 2016 – Public Notice and Notification  
April 8, 2016 – Ordinance Heading Ad

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**RECOMMENDATION ACTION:**

The **Development Review Committee** recommends approval of the change in Zoning from “County” R-1 (ZIP) to “City” R-1 (Residential) as set forth in Exhibit “A” for the property described therein.

The **Planning Commission**, at its meeting on March 8, 2016, recommended approval (5-0) of the change in Zoning from “County” R-1 (ZIP) to “City” R-1 (Residential) as set forth in Exhibit “A” for the property described therein.

The **City Council**, at its meeting on April 6, 2016, accepted the First Reading of Ordinance No. 2482 and held it over for Second Reading and Adoption on April 20, 2016.

Adopt Ordinance No. 2482.

**Note: This item is considered Quasi-Judicial. The staff report and its findings are to be incorporated into and made a part of the minutes of this meeting.**

**EXHIBIT "A"**  
**2016-1 ADMINISTRATIVE REZONING**  
**FROM "COUNTY" R-1 TO "CITY" R-1**

<b>Case #</b>	<b>Parcel ID</b>	<b>Property Owner</b>	<b>Acreage +/-</b>	<b>Future Land Use</b>	<b>Current Zoning</b>	<b>Proposed Zoning</b>
2016-1-17	10-21-28-8652-10-011	Brian & Christian Anderson	3.16	RL	R-1(ZIP)	R-1

**ORDINANCE NO. 2482**

**AN ORDINANCE OF THE CITY OF APOPKA, FLORIDA, CHANGING THE ZONING FROM “COUNTY” R-1 (ZIP) TO “CITY” R-1 (RESIDENTIAL) FOR CERTAIN REAL PROPERTIES GENERALLY LOCATED WITHIN THE CITY LIMITS OF APOPKA, COMPRISING 3.16 ACRES, MORE OR LESS, AND OWNED BY BRIAN AND CHRISTIAN ANDERSON; PROVIDING FOR DIRECTIONS TO THE COMMUNITY DEVELOPMENT DIRECTOR, SEVERABILITY, CONFLICTS, AND AN EFFECTIVE DATE.**

**WHEREAS**, to manage the growth, the City of Apopka, Florida, finds it in the best interest of the public health, safety and welfare of its citizens to establish zoning classifications within the City; and

**WHEREAS**, the City of Apopka Community Development Department, has requested an administrative change in zoning on said property as identified in Section I of this ordinance; and

**WHEREAS**, pursuant to the Interlocal Agreement between the City and Orange County (2004), policy of the City’s Comprehensive Plan Future Land Use Element (Policy 3.9), and State law (s 163.3202, F.S.), the City is required to assign a zoning category to lands that are annexed into the City’s jurisdiction.; and

**WHEREAS**, the proposed R-1 zoning has been found to be consistent with the City of Apopka Comprehensive Plan, and the City of Apopka Land Development Code.

**NOW THEREFORE, BE IT ORDAINED**, by the City Council of the City of Apopka, Florida, as follows:

**Section I.** That the zoning classification of the following described properties, being situated in the City of Apopka, Florida, is hereby R-1 as defined in the Apopka Land Development Code:

<b>Parcel ID</b>	<b>Property Owner</b>	<b>Acreage +/-</b>	<b>Land Use</b>	<b>Current Zoning</b>	<b>Proposed Zoning</b>
10-21-28-8652-10-011	Brian & Christian Anderson	3.16	RL	R-1 (ZIP)	R-1

**Section II.** That the zoning classification is consistent with the Comprehensive Plan of the City of Apopka, Florida.

**Section III.** That the Community Development Director, or the Director’s designee, is hereby authorized to amend, alter, and implement the official zoning maps of the City of Apopka, Florida, to include said designation.

**Section IV.** That if any section or portion of a section or subsection of this Ordinance proves to be invalid, unlawful, or unconstitutional, it shall not be held to invalidate or impair the validity, force or effect of any other section or portion of section or subsection or part of this ordinance.

**ORDINANCE NO. 2482**

**PAGE 2**

**Section V.** That all ordinances or parts of ordinances in conflict herewith are hereby repealed.

**Section VI.** That this Ordinance shall take effect upon the date of adoption.

READ FIRST TIME: April 6, 2016

READ SECOND TIME  
AND ADOPTION: April 20, 2016

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Joseph E. Kilsheimer, Mayor

ATTEST:

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Linda Goff, City Clerk

DULY ADVERTISED:      February 19, 2016  
   April 8, 2016



# CITY OF APOPKA CITY COUNCIL

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<input checked="" type="checkbox"/> PUBLIC HEARING	DATE: April 20, 2016
<input type="checkbox"/> ANNEXATION	FROM: Community Development
<input type="checkbox"/> PLAT APPROVAL	EXHIBITS: Zoning Report
<input type="checkbox"/> OTHER:	Vicinity Map
	Adjacent Zoning Map
	Adjacent Uses Map
	Existing Uses

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**SUBJECT:** BRIAN D. & CHRISTIAN A. ANDERSON (CASE # 2016-1-17)

**PARCEL ID NUMBER:** 10-21-28-8652-10-011

**Request:** ADMINISTRATIVE REZONING  
FROM: "COUNTY" R-1 (ZIP) (RESIDENTIAL)  
TO: "CITY" R-1 (RESIDENTIAL)

**SUMMARY**

OWNER: Brian D. & Christian A. Anderson

APPLICANT: City of Apopka

LOCATION: West of Armitage Drive, south of 7<sup>th</sup> Street

EXISTING USE: Single-family residential home

FUTURE LAND USE: Residential Low (0 – 5 du/acre)

ZONING: R-1 (ZIP)

PROPOSED DEVELOPMENT: Single-family residential home (existing)

PROPOSED ZONING: R-1

TRACT SIZE: 3.16 +/- Acres

MAXIMUM ALLOWABLE DEVELOPMENT: EXISTING ZONING: 12 Residential Units  
PROPOSED ZONING: 15 Residential Units

**DISTRIBUTION**

Mayor Kilsheimer	Finance Director	Public Ser. Director
Commissioners (4)	HR Director	City Clerk
City Administrator Irby	IT Director	Fire Chief
Community Dev. Director	Police Chief	



**ADDITIONAL COMMENTS:** Policy 3.9 of the Apopka Comprehensive Plan 2030 requires that a “city” zoning classification be assigned to annexed properties. The subject property was annexed into the City of Apopka on November 19, 2008, through the adoption of Ordinance No. 2052. Staff is requesting an administrative rezoning for the subject properties to comply with the policy set forth in the Comprehensive Plan. The proposed city zoning category is comparable to the densities and intensities and uses allowed under the existing “county” zoning classification, and the proposed zoning change is compatible with the character of the surrounding area.

The subject property is located in an area which has predominantly single-family uses and zoning. The property is adjacent to “City” R-1AA zoning to the west with single-family homes, vacant “City” PUD/R-2 zoned land to the north which permits single-family residential only, and “county” R-1 zoning to the east with single-family residential. The existing and proposed use is for a single-family residential home, which is a permitted use within the proposed “City” R-1 zoning, and compatible with surrounding uses.

Staff has analyzed the proposed amendment and determined that adequate public facilities exist to support this zoning change (see attached Zoning Report).

**COMPREHENSIVE PLAN COMPLIANCE:** The proposed zoning classification is consistent with the Future Land Use Designation assigned to the property.

**SCHOOL CAPACITY REPORT:** The request of the proposed rezoning would lead to an increase in residential units considered “de minimus” and, therefore, a school capacity agreement is not needed.

**JOINT PLANNING AREA/OVERLAY:** The subject properties are located within the “Core Area” of the Joint Planning Area with Orange County. The subject property is located within the City’s Downtown Development Overlay area.

**ORANGE COUNTY NOTIFICATION:** The JPA requires the City to notify the County 30 days before any public hearing or advisory board. The City properly notified Orange County on February 5, 2016.

**PROPERTY OWNER NOTIFICATION:** The property owner was notified of this administrative rezoning and public hearing dates at least thirty (30) days prior to the adoption public hearing.

**PUBLIC HEARING SCHEDULE:**

March 8, 2016 – Planning Commission (5:30 pm)

April 6, 2016 - City Council (1:30 pm) - 1st Reading

April 20, 2016 – City Council (7:00 pm) - 2nd Reading

**DULY ADVERTISED:**

February 19, 2016 – Public Hearing Notice Ad

April 8, 2016 – Ordinance Heading Ad

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**RECOMMENDED ACTION:**

The **Development Review Committee** recommends approval of the change in Zoning from “County” R-1 (ZIP) to “City” R-1.

The **Planning Commission**, at its meeting on March 8, 2016, recommended approval (5-0) of the change in Zoning from “County” R-1 to “City” R-1 as set forth in Exhibit “A” for the property described therein.

The **City Council**, at its meeting on April 6, 2016, accepted the First Reading of Ordinance No. 2482 and held it over for Second Reading and Adoption on April 20, 2016.

Adopt Ordinance No. 2482.

**Note: This item is considered Quasi-Judicial. The staff report and its findings are to be incorporated into and made a part of the minutes of this meeting.**

**ZONING REPORT**

**RELATIONSHIP TO ADJACENT PROPERTIES:**

<i>Direction</i>	<i>Future Land Use</i>	<i>Zoning</i>	<i>Present Use</i>
North (City)	Residential Low (0 – 5 du/acre)	PUD/R-2	Vacant residential
East (County)	Low Density Residential (0 – 4 du/acre)	R-1	Single-family residential
South (County)	Low Density Residential (0 – 4 du/acre)	R-1	Retention
West (County)	Residential Low (0 – 5 du/acre)	R-1AA	Single-family residential

**LAND USE &**

**TRAFFIC COMPATIBILITY:** The subject property is accessed by a local roadway (Armitage Drive).

**COMPREHENSIVE PLAN COMPLIANCE:**

The proposed R-1 zoning is consistent with the City’s Residential Low Future Land Use designation and with the character of the surrounding area and future proposed development. The R-1 zoning classification is one of the acceptable zoning categories allowed within the Industrial Future Land Use category. Development Plans shall not exceed the density allowed in the adopted Future Land Use Designation.

**R-1 DISTRICT REQUIREMENTS:**

- Minimum Living Area: 1,500 sq. ft.
- Minimum Site Area: 8,000 sq. ft.
- Minimum Lot Width 75 ft.
- Setbacks: Front: 25 ft.
- Rear: 20 ft.
- Side: 10 ft.
- Corner 25 ft.

Based on the above zoning standards, the subject site complies with code requirements for the R-1 district.

**BUFFERYARD REQUIREMENTS:**

Developments shall provide a minimum six-foot high brick, stone or decorative block finished wall adjacent to all external roadways, erected inside a minimum ten-foot landscaped bufferyard. Landscape materials shall be placed adjacent to the right-of-way, on the exterior of the buffer wall. The city may allow the developer to the option to provide up to 50 percent of the buffer wall length in a six-foot wrought iron fence between solid columns. The columns shall be a minimum of 32 feet off-set and shall have a stone, brick or decorative block finish. Where wrought iron is used, additional landscape materials and irrigation may be required. This will be determined by the city on a case-by-case basis.

Areas adjacent to agricultural districts or activities shall provide a minimum five-foot bufferyard and a minimum six-foot high brick, stone or decorative block finished wall unless acceptable alternatives are submitted for approval.

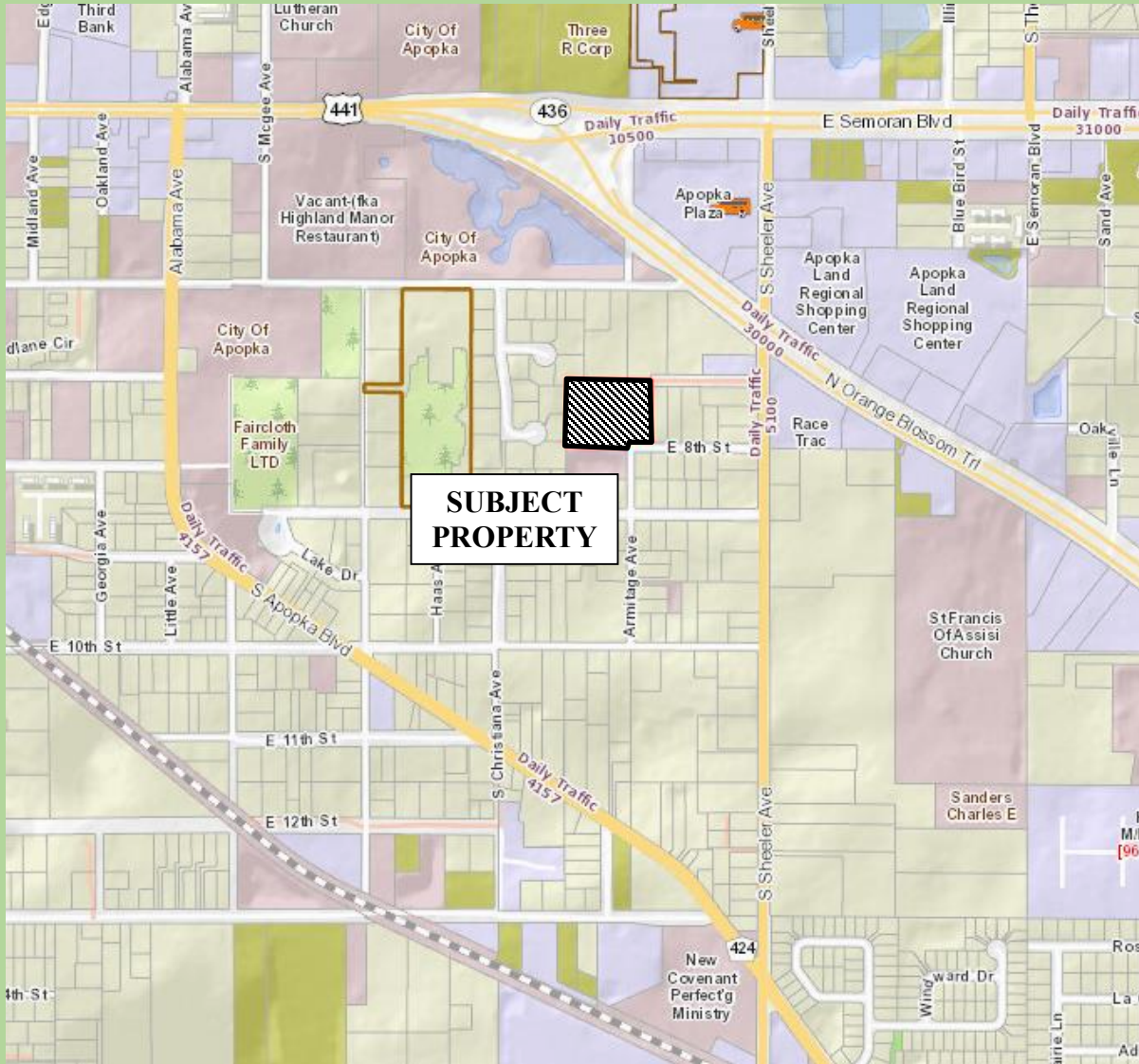
**ALLOWABLE USES:**

Single-family dwellings and their customary accessory structures and uses in accordance with article VII of this code. Supporting infrastructure and public facilities of less than five acres as defined in this code and in accordance with Section 2.02.01.



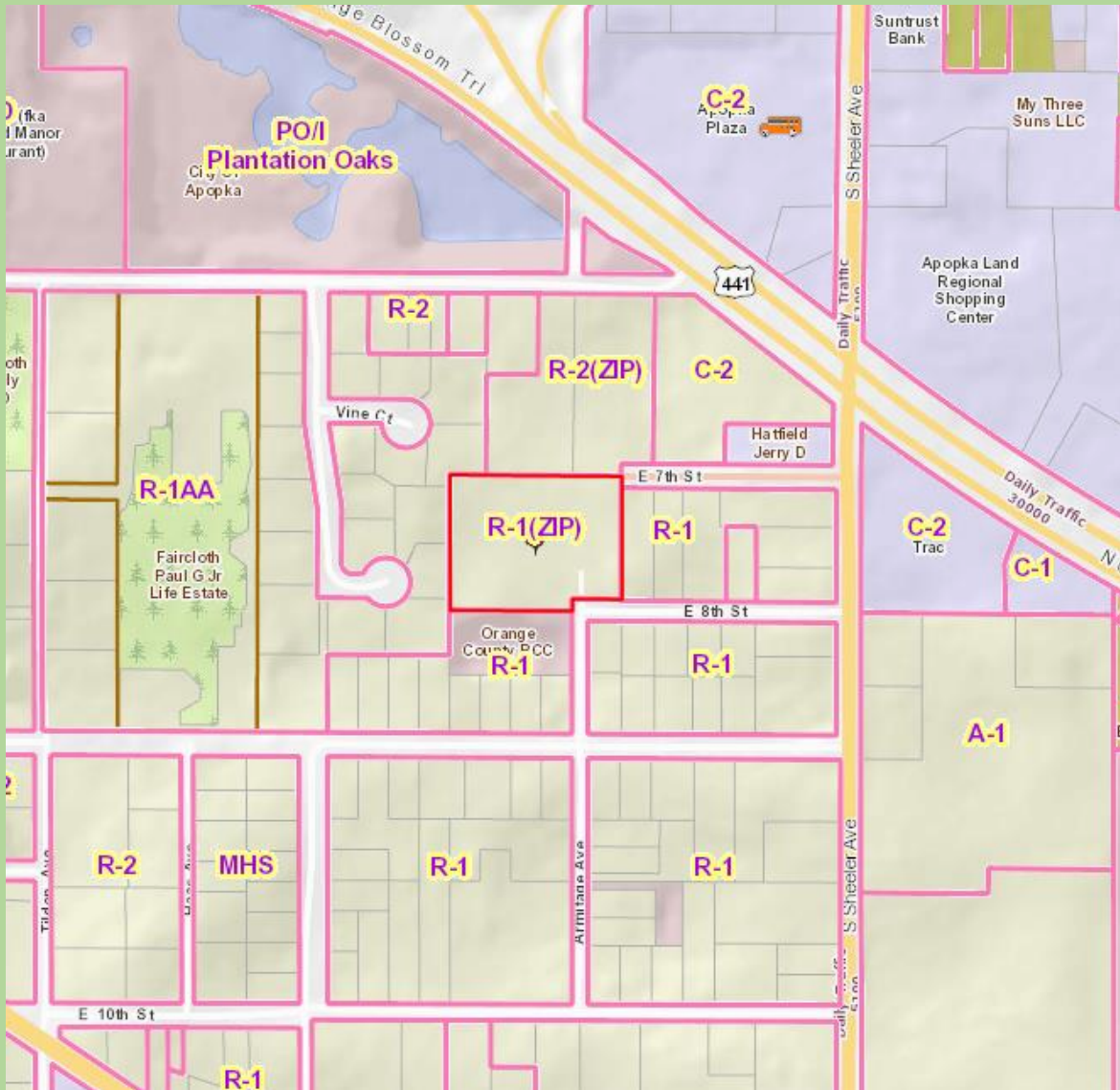
**Brian D. & Christian A. Anderson**  
**3.16 +/- Acres**  
**Proposed Zoning Change:**  
**From: “County” R-1 (ZIP) (Residential) (5,000 sq. ft. min. lot)**  
**To: “City” R-1 (Residential) (7,500 sq. ft. min. lot)**  
**Parcel ID #: 10-21-28-8652-10-011**

**VICINITY MAP**



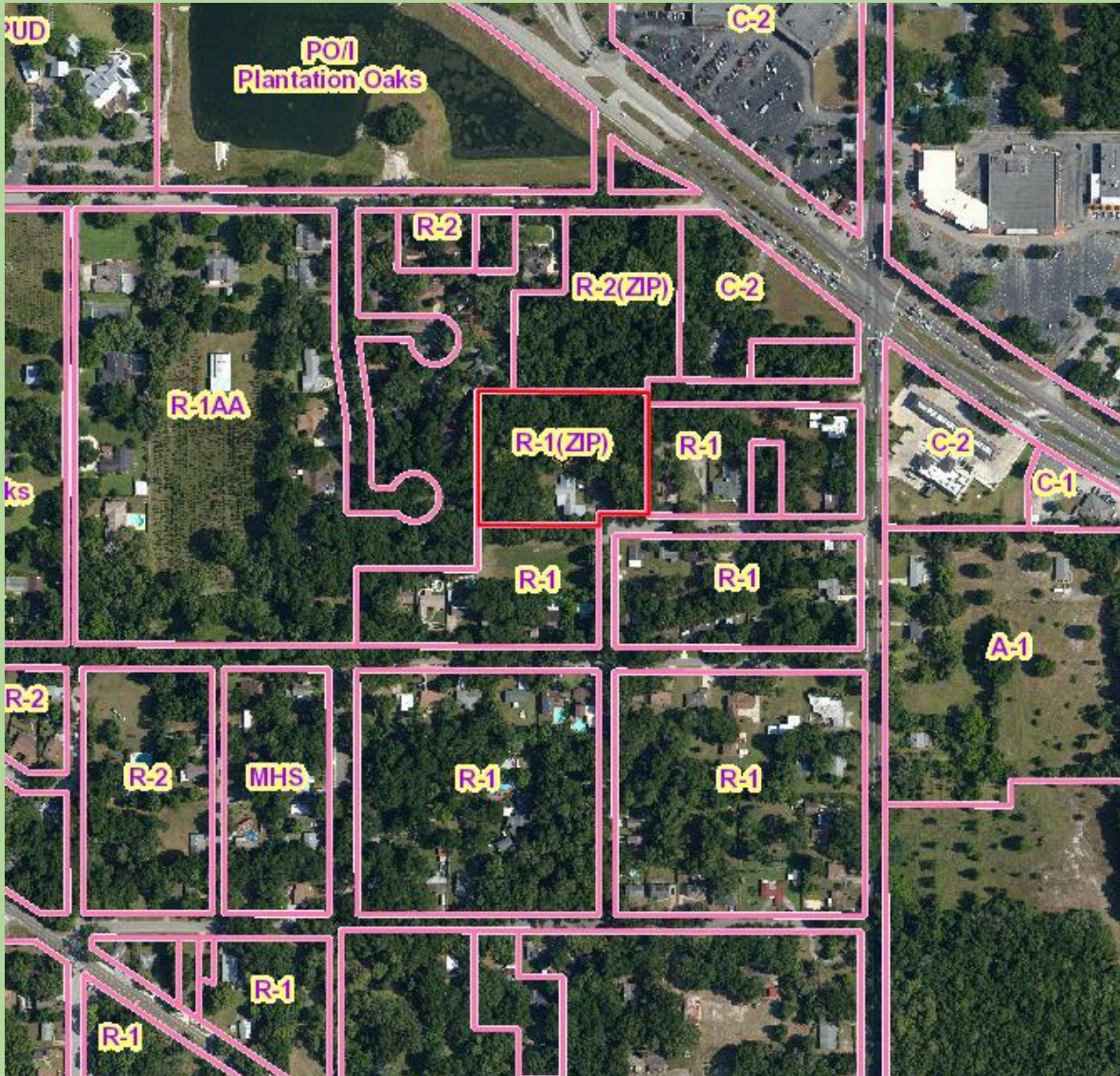


### ADJACENT ZONING



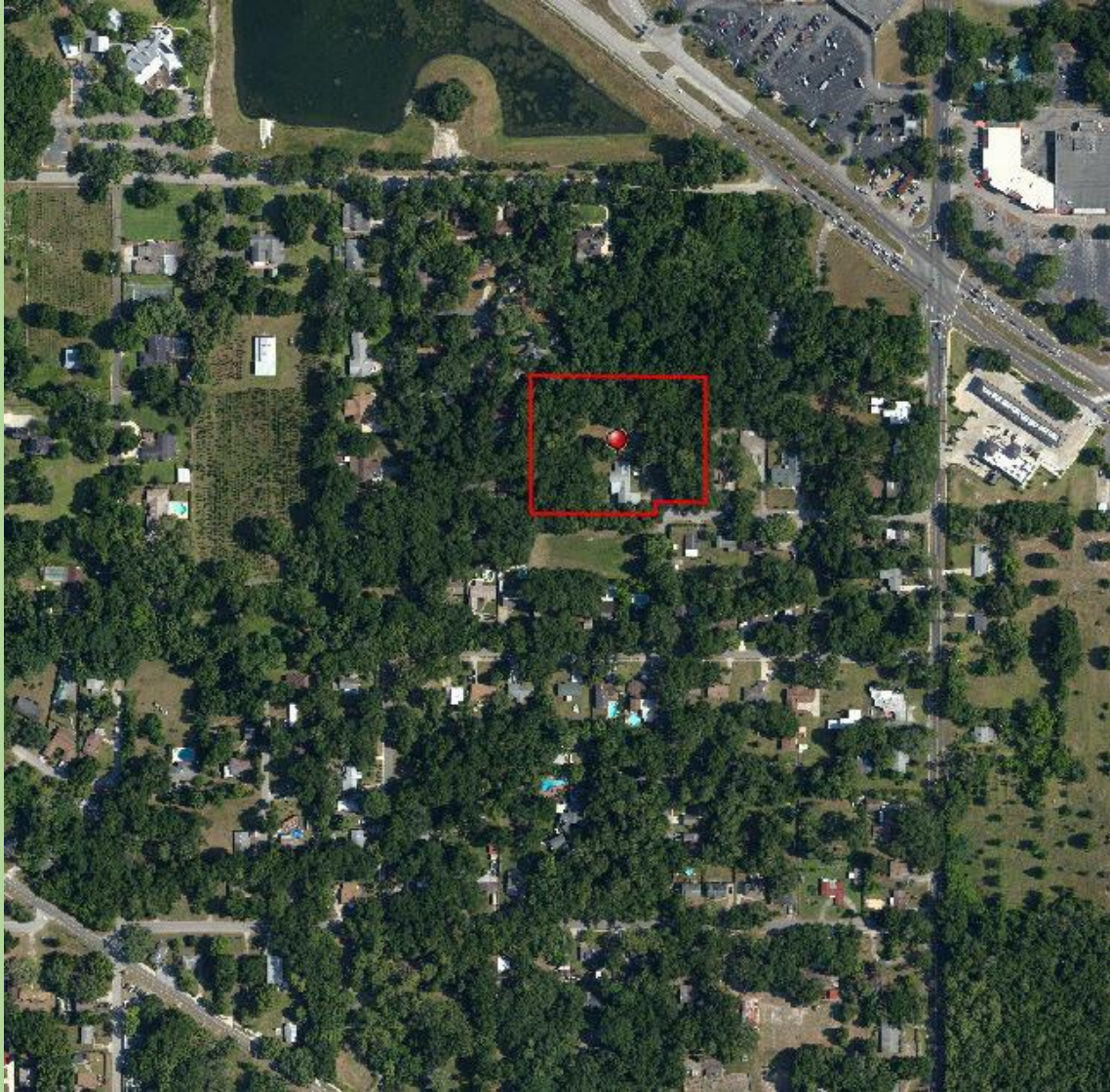


### ADJACENT USES





**EXISTING  
USES**



**Backup material for agenda item:**

8. Ordinance 2492 – Second Reading – Amending the Apopka Land Development Code & update the Utilities Design and Construction Standards Manual.

Jay Davoll





# CITY OF APOPKA CITY COUNCIL

CONSENT AGENDA  
 PUBLIC HEARING  
 SPECIAL REPORTS  
 OTHER: Ordinance No. 2492

MEETING OF: April 6, 2016  
FROM: Public Services  
EXHIBITS: (see attached)

**SUBJECT: ORDINANCE NO. 2492 UPDATE OF THE UTILITIES DESIGN AND CONSTRUCTION STANDARDS MANUAL APOPKA LAND DEVELOPMENT CODE.**

**REQUEST: SECOND READING & ADOPTION OF ORDINANCE NO. 2492, UPDATE OF THE UTILITIES DESIGN AND CONSTRUCTION STANDARDS MANUAL APOPKA LAND DEVELOPMENT CODE.**

**SUMMARY:**

The Utilities Design and Construction Standards Manual sets forth engineering, design, development and material standards for projects constructed within the City of Apopka. The specifications incorporated in this document are incorporated by reference into the Land Development Code of the City of Apopka and are meant to protect the interests of the health, safety and welfare of its citizens and visitors. The manual was last substantially modified and approved by City Council in August 19, 1992. The second edition of the Utilities Design and Construction Standards Manual continues to align the City's requirements with more generally accepted standards such as the material and construction specifications of the Florida Department of Transportation (FDOT) and the environmental requirements from both the Florida Department of Environmental Protection (FDEP) and the St Johns River Water Management District (SJRWMD).

This document will be available on-line at the City's website once approved. Staff's intention is to provide annual updates in keeping with the industries standards and industry changes.

Staff recommends passage of Ordinance No. 2492 on First Reading and hold over for a Second Reading

**DULY ADVERTISED:**

April 8, 2016 – Public Notice and Notification

**FUNDING SOURCE:**

N/A

**RECOMMENDATION ACTION:**

The **City Council**, at its meeting on April 6, 2016, accepted the First Reading of Ordinance No. 2492 and held it over for Second Reading and Adoption on April 20, 2016.

Adopt Ordinance No. 2492.

**DISTRIBUTION**

Mayor Kilsheimer  
Commissioners  
City Administrator  
Community Development Director

Finance Director  
HR Director  
IT Director  
Police Chief

Public Services Director  
Recreation Director  
City Clerk  
Fire Chief

**ORDINANCE NO. 2492**

**AN ORDINANCE OF THE CITY COUNCIL OF  
THE CITY OF APOPKA, FLORIDA, UPDATE  
OF THE UTILITIES DESIGN AND  
CONSTRUCTION STANDARDS MANUAL,  
PROVIDING FOR SEVERABILITY,  
CONFLICTS, AND AN EFFECTIVE DATE.**

**WHEREAS**, Section 166 of the Florida Statutes, grants municipalities the proprietary powers to undertake all municipal functions; and

**WHEREAS**, the City of Apopka desires the adoption of an updated Utilities Design and Construction Standards Manual is in the best interest of the City.; and

**WHEREAS**, the City of Apopka desires to amend and update the Utilities Design and Construction Standards Manual to reflect the current practices done by the City.

**NOW, THEREFORE BE IT ORDAINED BY THE CITY COUNCIL, OF THE CITY OF APOPKA, FLORIDA;** that:

**SECTION I:** The attached document entitled “The Utilities Design and Construction Standards Manual” is hereby made part of this ordinance and adopted by reference.

**SECTION II:** The Utilities Design and Construction Standards Manual shall apply to all development activity within the City.

**SECTION III: Severability.** Should any provision or section of this ordinance or the Utilities Design and Construction Standards Manual adopted by reference and attached to this ordinance be held by a court of competent jurisdiction to be unconstitutional and invalid, such decision shall not affect the validity of this ordinance or the Utilities Design and Construction Standards Manual as a whole, or any part thereof other than the part so declared to be unconstitutional or invalid.

**SECTION IV. Conflict.** All ordinance or parts of ordinances in conflict herewith are hereby repealed.

**SECTION V.** Effective Date. This ordinance shall be effective immediately upon adoption.

First Reading: April 6, 2016  
Second Reading: April 20, 2016  
and Adoption

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Joseph E. Kilsheimer, Mayor

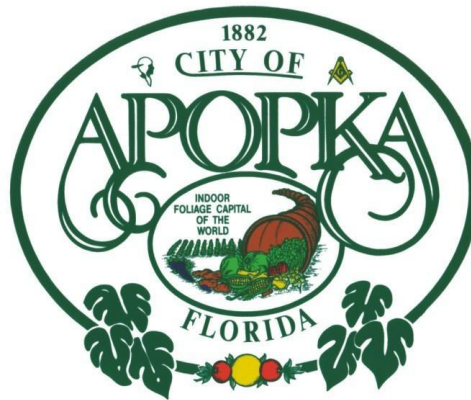
ATTEST:

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Linda F. Goff, City Clerk

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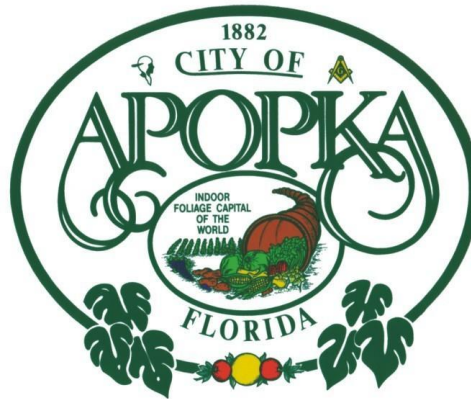
**City of Apopka**  
**Utilities**  
**Design and Construction Standards Manual**  
**2016 Edition**



**Jay Davoll, P.E.**  
***Public Services Director***  
Public Services Department  
748 E. Cleveland Street  
Apopka, FL 32703

**City of Apopka**  
**Utilities**  
**Design and Construction Standards Manual**

**2016 Edition**



**Joe Kilsheimer**  
*Mayor*

**J. William Arrowsmith**  
*Commissioner*

**Billie L. Dean**  
*Commissioner*

**Sam Ruth**  
*Commissioner*

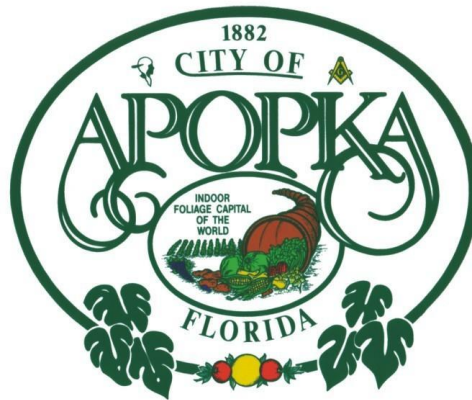
**Diane Velazquez**  
*Commissioner*

**Glenn A. Irby**  
*City Administrator*

**Jay Davoll, P.E.**  
*Public Services Director*

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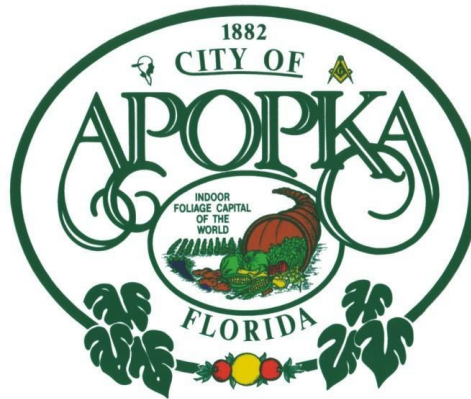
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## **Introduction**

### **I. General**

The title of this Document is the "City of Apopka, Utilities Design and Construction Standards Manual". This document supplements the City of Apopka Land Development Code.

### **II. Jurisdiction**

This MANUAL has been approved by the City of Apopka, City Council and accepted as an official standard. It shall apply to proposed potable water, reclaimed water and sanitary sewer systems to be owned, operated, and maintained by the City of Apopka, or private systems, connecting to the City of Apopka systems.

### **III. Purpose**

These standards and specifications are adopted to establish the minimum acceptable standards for the design and construction of potable water systems, reclaimed water systems, sanitary sewer systems and related appurtenances associated with such systems.

### **IV. Document Review**

This document, the City of Apopka, Utilities Design and Construction Standards Manual, will be reviewed and if need be, updated on a periodic basis. Review of this document, referred to as the MANUAL, will include proposed changes in wording, language, design criteria, forms, details, procedures and approved products. The proposed revisions will be gathered from internal and external stakeholders and be reviewed by a committee of City of Apopka personnel representing the many disciplines essential to successfully direct, guide and inform those employing this Manual.

Submit comments and suggestions for the committees review to:

City of Apopka  
Utilities Design and Construction Standards Manual  
Attention: Public Services Department  
748 East Cleveland Street  
Apopka, Florida 32703

### **V. Incorporation by Reference**

The most current publications of or by adopted ordinance:



American Association of State Highway and Transportation Officials  
(AASHTO)

American National Standards Institute (ANSI)

American Society for Testing Materials (ASTM)

American Water Works Association (AWWA) Standards

City of Apopka, Land Development Code (LDC)

City of Apopka Municipal Code

State of Florida Department of Environmental Protection (FDEP)

State of Florida Department of Transportation (FDOT)

Standard Specifications for Road and Bridge Construction

Design Standards for Design, Construction, Maintenance and Utility  
Operations on the State Highway System

Utility Accommodation Guide

National Electrical Code (NEC)

National Electrical Manufacturers Association (NEMA)

National Sanitation Foundation (NSF)

Orange County Road Construction Specifications

Orange County Utilities Standards and Construction Specifications Manual

St. Johns River Water Management District (SJRWMD)

Standard Fire Prevention Code and References

Standard Plumbing Code

END OF SECTION

# City of Apopka

## Utilities

### Design and Construction Standards Manual



## Chapter 1

### General Requirements

**Section 10**

**Definitions**

**Section 11**

**Plan Review, Approval, Construction  
and Acceptance of Water, Reclaimed  
Water and Wastewater Improvements**

## Section 10 – Definitions and Abbreviations

### 10.1 Definitions

Except where specific definitions are used within a specific section, the following terms, phrases, words, and their derivation shall have the meaning given herein when consistent with the context. Words used in the present tense include the future tense, words in the plural number include the singular number and words in the singular number include the plural number. The word "shall" is mandatory with the word "may" being permissive.

AASHTO - means American Association of State Highway and Transportation Officials. Any reference to AASHTO standards shall be taken to mean the most recently published revision unless otherwise specified.

ANSI - means American National Standards Institute. Any reference to ANSI standards shall be taken to mean the most recently published revision unless otherwise specified.

ASTM - means American Society for Testing Materials. Any reference to ASTM standards shall be taken to mean the most recently published revision unless otherwise specified.

AWWA - means American Water Works Association. Any reference to AWWA Standards shall be taken to mean the most recently published revision unless otherwise specified.

CITY - means the City of Apopka, Florida, as governed by the Apopka City Council, and/or its designated representative(s): Mayor, Commissioners and City Administrator.

CITY ENGINEER - means the City Engineer of the Engineering Department, for the City of Apopka, Florida, or his designated representative.

CITY SERVICES EASEMENT - Means an easement which has been dedicated to the exclusive use of the CITY for the installation and maintenance of water, wastewater, reclaimed water facilities, and other CITY services and uses.

CODE - means the City of Apopka's Code of Ordinances.

CONTRACTOR - means the person, firm, or corporation with whom the contract for work has been made by the OWNER, the DEVELOPER, or the CITY, whichever is applicable.

DEVELOPER - means the person, firm, or corporation engaged in developing or improving real estate for use or occupancy.

DEVELOPER'S ENGINEER - means an engineer or engineering firm registered with the Florida Department of Business and Professional Regulation, retained by the

**DEVELOPER** to provide professional engineering services for a project.

**DIRECTOR** - means the Director of the Public Services Department, for the City of Apopka, Florida, or his designated representative.

**DRAWINGS** - means engineering drawings, prepared by an ENGINEER, showing the proposed construction.

**ENGINEER** - means an engineer or engineering firm licensed by and registered with the State of Florida, pursuant to Chapter 471, F.S.

**FAC** - means Florida Department of State Florida Administrative Code. Any reference to FAC shall be taken to mean the most recently published rules.

**FS** - means Florida Statutes. Any reference to FS shall be taken to mean the most recently published State of Florida laws.

**GEOTECHNICAL / SOILS ENGINEER** - means a Registered Florida Engineer who provides services related to terrain evaluation, site selection, subsurface exploration and sampling, determination of soil and rock properties, foundation engineering, settlement and seepage analysis, design of earth and earth retaining structures, the design of subsurface drainage systems and the improvement of soil properties and foundation conditions, testing and evaluation of construction materials.

**MANUAL** - means the City of Apopka, Utilities Design and Construction Standards Manual, latest edition.

**NORMAL WORKING DAY** - means Monday through Friday excluding CITY holidays.

**NORMAL WORKING HOURS** - are the hours between 8:00 a.m. to 5:00 p.m. of a NORMAL WORKING DAY.

**NSF** - means National Sanitation Test Laboratory Foundation. Any reference to NSF Standards shall be taken to mean the most recently published revision unless otherwise specified.

**OFFSITE** - means the right-of-ways, easements, and secondary real estate on which connective improvements for a development are placed.

**ONSITE** - means the primary real estate on which a development and its related improvements are placed.

**ORANGE COUNTY** - means Orange County, Florida.

**OSHA** - means the Federal Occupational Safety and Health Administration.

**OWNER** - means the person, firm, corporation, or governmental unit, holding right of

possession of the real estate upon which construction is to take place.

PLANS - Drawings prepared by an ENGINEER or architect to show the proposed construction.

POTABLE WATER - means water that has been treated, disinfected, and is suitable for drinking, culinary, and domestic purposes.

POTABLE WATER SYSTEM - water transmission and distribution pipes, water pump stations, fittings, valves, hydrants, services, meters and miscellaneous appurtenances.

RAW WATER - means untreated water that has been obtained from a natural source.

RECLAIMED WATER - means water that has received at least secondary treatment, basic disinfection, and is reused after flowing out of a domestic wastewater treatment facility.

RECLAIMED WATER SYSTEM - reclaimed water transmission and distribution piping, pump stations, fittings, valves, services, meters and miscellaneous appurtenances.

RECORD DRAWINGS - Certification by the ENGINEER that the RECORD DRAWINGS depict the horizontal and vertical locations of installed utilities for the completed WORK.

RIGHT-OF-WAY UTILIZATION REGULATIONS - means the City of Apopka's right-of-way utilization regulations.

SEMINOLE COUNTY- means Seminole County, Florida

SPECIFICATIONS - means the specifications contained in this MANUAL.

STANDARD DETAILS - means the detailed drawings contained in this MANUAL relating to water, reclaimed water and wastewater, main materials and installation.

STANDARDS - means the minimum design standards contained in this MANUAL.

SURVEYOR - a person licensed by the State of Florida as a professional surveyor and mapper pursuant to Chapter 472, F.S.

UTILITY MASTER PLAN - means a comprehensive study of the water, reclaimed water and sewer systems used to guide future utility decisions.

UTILITIES - means the Public Services Department of the City of Apopka, Florida.

UTILITY ACCOMMODATION GUIDE - means the Florida Department of Transportation's Utility Accommodation Guide, latest edition.

WASTEWATER SYSTEM - wastewater transmission pipes including gravity sewers,

force mains, wastewater pump stations (lift stations), fittings, valves, service laterals and miscellaneous appurtenances.

WORK - means the labor, materials, equipment, supplies, services, and other items necessary for the execution, completion and fulfillment of the contract.

## 10.2 Abbreviations

**A**

AASHTO	American Association of State Highway and Transportation
AC	asbestos cement pipe or alternating current
Amp	ampere
ANSI	American National Standards Institute
ARV	air release valve
ASTM	American Society of Testing and Materials
AWS	American Welding Society
AWWA	American Water Works Association

**B**

BLDG	building
BM	benchmark
BT	buried telephone cable

**C**

CD	compact disc
cfm	cubic feet per minute
CIP	cast iron pipe or Capital Improvement Program
CIPP	cured in place pipe
CMP	corrugated metal pipe
CO	clean out
CONC	concrete

**D**

db	decibels
DC	direct current
DCCA	Directional Crossing Contractors Association
deg	degree
dia	diameter
DIP	ductile iron pipe
DIPRA	Ductile Iron Pipe Research Association
DR	dimension ratio
DRI	Development of Regional Impact
DW	driveway
dwg	AutoCAD file format

**E**

EOP	edge of pavement
ERC	Equivalent Residential Connection
ERU	Equivalent Residential Unit

EPA United States Environmental Protection Agency

## **F**

FAC Florida Administrative Code  
FCC Federal Communications Commission  
FDEP State of Florida Department of Environmental Protection  
FDOT State of Florida Department of Transportation  
FH fire hydrant  
FIG figure  
FLG flange  
FM force main  
FOC fiber optic cable  
fps feet per second  
FS Florida Statute  
ft feet or foot  
ftlb foot pounds

## **G**

GIS Geographical Information System  
gpd gallons per day  
gpm gallons per minute  
GPS Global Positioning System

## **H**

HDD horizontal directional drilling  
HDPE high density polyethylene  
HORIZ horizontal

## **I**

ID identification number or inside diameter  
I/O input/output  
IPS iron pipe size  
ISO International Standards Organization

## **K**

kV kilovolt  
kVA kilovolt ampere  
kW kilowatts

## **L**

LCD liquid crystal display



LDC Land Development Code  
LF linear feet  
LS lift station

**M**

ma milliamps  
MAX maximum  
MGD millions gallons per day  
MH manhole  
MHz megahertz  
mil millionths  
MJ mechanical joint  
mpd minutes per day  
ms millisecond  
MSDS Material Safety Data Sheets  
MUTCD Manual on Uniform Traffic Control Devices

**N**

NEC National Electric Code  
NEMA National Electrical Manufacturers Association  
NFPA National Fire Protection Association  
NPT National Pipe Thread  
NPDES National Pollutant Discharge Elimination System

**O**

OC on center  
OD outside diameter  
OS&Y outside screw and yoke  
OSHA Federal Occupational Safety and Health Administration

**P**

PD planned development  
PDF Adobe Acrobat file format  
PL property line  
PLC programmable logic controller  
ppb parts per billion  
ppm parts per million  
PRV pressure regulating and reducing valve  
psf pounds per square foot  
psi pounds per square inch  
PVC polyvinylchloride pipe

**R**

REQ'D	required
RJ	restrained joint
ROW	right-of-way
RTU	radio telemetry unit
RWM	reclaimed water main

**S**

SCADA	Supervisory Control and Data Acquisition
SJRWMD	St. Johns River Water Management District
SQ	square
SS	stainless steel

**T**

TBM	temporary benchmark
THW	thermoplastic heat and water resistant insulated wire
THWN	thermoplastic heat and water resistant nylon coated wire
tiff	tagged image file format
TVSS	transient voltage surge suppressor
TYP	typical

**U**

UL	Underwriters Laboratory
USGS	United States Geological Survey
UV	ultraviolet (light)
USDA	United States Department of Agriculture

**V**

VCP	vitriified clay pipe
VFD	variable frequency drive

**W**

WM	water main
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**Y**

yd	yard
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END OF SECTION

## **Section 11 - Plan Review, Approval, Construction and Acceptance of Water, Reclaimed Water and Wastewater Improvements**

### **11.1 Plans and Specifications**

#### **11.1.1 General**

All submitted plans shall be on standard size sheet measuring 24-inches by 36-inches with a title block and border. Graphic scale(s) shall be provided on each sheet and all lettering shall be 1/8 inch or larger to permit photographic reproduction. All PLANS sheets and the title page of submitted specifications must be signed, sealed, and dated by the DEVELOPER'S ENGINEER.

#### **11.1.2 Utility Plan**

The entire potable water, reclaimed water, and wastewater systems shall be shown at scale 1"=50' at a minimum, unless approved otherwise by the DIRECTOR. The Utility Plan shall indicate the general locations of all mains, sizes, manholes, valves, hydrants, services, and service laterals with respect to the proposed development improvements and the existing water, reclaimed water and wastewater systems.

#### **11.1.3 Plan and Profile**

All gravity sewers, wastewater force mains, potable water mains, reclaimed water mains and stormwater shall be drawn in 'plan' and 'profile' view.

Whenever possible, on-site potable water, reclaimed water, and wastewater systems shall be shown on the same plan sheet, at a minimum at scale of 1"=50'. The plan and profile drawings shall include, but not be limited to, the following information:

1. General information such as a north arrow, name(s) of designer and engineer, revision block with dates, graphic scale(s), and sheet number.
2. Profile with elevations at one-hundred (100) foot intervals, or more frequently.
3. Development layout with horizontal and vertical controls. Vertical control points shall be based on North American Vertical Datum of 1988 (NAVD88). Horizontal control points shall be based on North American Datum of 1983 (NAD83) Florida East State Plane. Each project shall have at least one (1) permanent benchmark or one every five-hundred (500) feet when dictated by the project size.

4. All known conflicts with other utility and drainage systems.
5. All manhole locations and rim and invert elevations for manholes.
6. Pipe data including size, lengths, material, and slopes.
7. Size, type, and locations of fittings, valves, hydrants, air release/vacuum relief, and other related appurtenances.
8. Limits of pipe deflection, when applicable.
9. Limits of special exterior coatings.
10. Limits of special bedding requirements.
11. Pipe restraint requirements.
12. Details of connection to existing systems.
13. Locations(s) and general layout of wastewater pumping stations.
14. Special construction notes regarding cover, horizontal and vertical control, special construction requirements and references to standard and special details.

#### 11.1.4 Standard Details

The PLANS shall include all applicable STANDARD DETAILS as shown in this MANUAL. These STANDARD DETAILS have been made available on the City of Apopka website.

The STANDARD DETAILS shall only be modified by the CITY, except for the filling in of blank information areas, by the DEVELOPER'S ENGINEER. Special details shall be prepared by the DEVELOPER'S ENGINEER for aerial and underwater crossings of rivers, streams, canals, and ditches. Other special details shall be prepared by the DEVELOPER'S ENGINEER and submitted to the CITY for approval.

#### 11.1.5 Scale

PLANS shall be prepared at a scale sufficiently large enough to show pertinent construction information and detail.

## **11.2 Water, Reclaimed Water and Wastewater Improvements**

### **11.2.1 General**

This Section shall apply to all potable water, reclaimed water, and wastewater improvements that are constructed in compliance with the CITY'S Land Development Code, as amended. Such water, wastewater, and reclaimed water improvements shall be designed, reviewed, constructed, and accepted in accordance with the criteria established in this section. Existing non-conforming developed properties shall be brought into compliance with this MANUAL when redevelopment, or change of use is proposed and/or the general public health, safety, or welfare is of concern.

### **11.2.2 Design Review and Pre-construction Conference**

Design of water, wastewater and reclaimed water improvements shall be in compliance with the design standards in this MANUAL. PLANS will be reviewed by the Public Services Department as part of the plan review process. A pre-construction conference shall be conducted at the CITY at least forty-eight (48) hours but, not more than two (2) weeks, prior to the start of any construction activities. Representatives of the CITY, DEVELOPER, CONTRACTOR, and DEVELOPER'S ENGINEER shall be required to attend. The DEVELOPER shall be responsible for notifying all affected utilities and governmental agencies of the conference.

### **11.2.3 Construction Inspection and Certification**

The CITY ENGINEER will periodically inspect all construction subject to these standards and specifications. A set of the City approved engineering plans shall be maintained on-site at all times.

After all required improvements have been installed; the DEVELOPER'S ENGINEER shall submit certification to the CITY that the improvements have been constructed substantially according to approved plans and specifications. Non-compliance with approved plans or specifications or evidence of faulty materials or workmanship observed by the CITY will be called to the attention of the DEVELOPER or DEVELOPER'S ENGINEER.

If not corrected in an expeditious manner, all work on the project will be suspended, the certificate of acceptance, completion or occupancy withheld, and/or the code enforcement procedures initiated. Laboratory tests may be required as deemed appropriate by the CITY at the expense of the DEVELOPER.

#### 11.2.4 Maintenance, Materials, and Workmanship Warranty Bond

A bond shall be posted by the DEVELOPER and executed by a company authorized to do business in the State of Florida that is satisfactory to the CITY, payable to the City of Apopka in the amount of ten (10) percent of the actual construction cost of all required water, reclaimed water and wastewater improvements to be owned and maintained by the CITY. An itemized cost breakdown of the construction costs for all water, reclaimed water and wastewater improvements, separated into off-site and on-site sections as applicable, shall be submitted along with the bond. Such bond shall guarantee maintenance of all improvements intended to be owned and maintained by the CITY for a one (1) year period. Said guarantee shall apply to the materials, workmanship, and structural integrity of all water, reclaimed water and wastewater systems and miscellaneous related facilities, including mechanical equipment, for a one (1) year period commencing after a Certificate of Acceptance has been issued by the CITY. See Appendix B for required forms. As an alternative to the provision of a surety bond from a Florida licensed company, the DEVELOPER may provide a certified cashier's check or an irrevocable letter of credit acceptable to the CITY through a State of Florida recognized financial institution.

#### 11.2.5 Certificate of Completion

After successful completion of all potable water, reclaimed water, and wastewater improvements, and after receipt of the required documents outlined in Appendix B, the CITY will issue a "Certificate of Acceptance" verifying the satisfactory construction of all improvements intended to be owned and maintained by the CITY.

### **11.3 Miscellaneous Water, Reclaimed Water and Wastewater Improvements**

All water, wastewater, and reclaimed water improvements which are intended to be publicly owned, operated, and maintained shall be designed, reviewed, and inspected in accordance with this MANUAL, as required by the CITY.

### **11.4 Compliance with other Regulatory Requirements**

It shall be the responsibility of the DEVELOPER to obtain and comply with all applicable Federal, State, County, and Local regulatory permits. CITY approved PLANS, that are required to be modified by another regulatory agency or agencies, shall be resubmitted to the CITY for re-approval.

### **11.5 Record Drawings**

Not less than three (3) working days prior to the Final Inspection by the CITY, the DEVELOPER'S ENGINEER shall provide a written certification signed, sealed

and dated, that all RECORD DRAWING PLANS, accurately and completely reflect any and all deviations from or changes made to the CITY approved construction PLANS. The submittal shall include one (1) complete set of signed, sealed, and dated RECORD DRAWING PLANS. In addition to the PLANS the DEVELOPER'S ENGINEER must also submit one (1) electronic copy in tiff format (not PDF) and one (1) electronic copy in AutoCAD 2013 (or earlier version) of the RECORD DRAWINGS to the CITY prior to the issuance of the Certificate of Acceptance for the improvements. The DEVELOPER'S ENGINEER shall be responsible for recording information on the approved PLANS as construction progresses. RECORD DRAWINGS submitted to the CITY as part of the project acceptance shall comply with the following requirements:

1. DRAWINGS shall be legibly marked to record actual construction.
2. DRAWINGS shall show actual location of all underground and above ground water, reclaimed water storm drainage and wastewater piping and related appurtenances. All changes shall be based horizontal control datum NAD1983 State Plane Florida East (US feet) and vertical control datum NAVD88. DRAWINGS shall show actual installed pipe size, type of material and pressure class.
3. DRAWINGS shall clearly show all field changes of dimension and detail.
4. DRAWINGS shall clearly show all details not on the original contract DRAWINGS but constructed in the field. All equipment and piping relocation shall be shown.
5. Location of all manholes, hydrants, valves, and valve boxes shall be shown. All valves shall be referenced from at least two and preferably three permanent points.
6. Dimensions between all manholes shall be field verified and shown. The inverts, grade elevations and slope of all manholes shall be shown. Sewer laterals shall be located along the mains measured from the nearest downstream manhole.
7. The depth from finish grade of potable water, reclaimed water, and sewer force mains shall be indicated at all valve locations.
8. The information listed in item 2, 5, 6 and 7, shall be completed by a certified professional land SURVEYOR. Signed and sealed certification prepared by the SURVEYOR shall be submitted to the CITY.

9. The following statement shall appear on each sheet of RECORD DRAWING & signed by the engineer of record.

<p>RECORD DRAWINGS</p> <p>RECORD DRAWINGS CONTAIN INFORMATION FURNISHED BY OTHERS. THE INFORMATION PROVIDED HAS BEEN REVIEWED BY ME OR BY INDIVIDUALS UNDER MY DIRECT SUPERVISION AND FOUND TO BE CORRECT AND ACCURATE, CONSISTENT WITH THE PERMIT AND THE APPROVED DRAWINGS AND SPECIFICATIONS. ANY ADJUSTMENTS AND MINOR DEVIATIONS, WHICH ARE DEPICTED, WERE MADE WITH PRIOR APPROVALS AND IN MY JUDGEMENT DO NOT ALTER THE MAIN INTENT OF THE DESIGN, THE SAFETY OR THE STRUCTURAL INTEGRITY OF THE CONSTRUCTED WORK AND WILL NOT PREVENT THE PROJECT FROM FUNCTIONING IN ACCORDANCE WITH THE RULE REQUIREMENTS.</p>		
_____ SIGNATURE	_____ REG. NO.	_____ DATE

10. The Certified Record Drawings shall be presented in digital format. The format shall be a high resolution tiff image as well as AutoCAD, at the same size and scale as the Development Plan. The RECORD DRAWINGS shall consist of each sheet that appears in the approved Final Development Plan, plus any additional plan sheets necessary to complete the project construction.

Each sheet of the PLANS shall be signed, sealed, and dated by the DEVELOPER'S ENGINEER as being RECORD DRAWINGS. Construction PLANS simply stamped RECORD DRAWINGS not certifying the accuracy of the location, elevation and confirmation of such utilities will not be accepted and shall be returned to the DEVELOPER'S ENGINEER. The "Certificate of Acceptance" will not be issued until correct RECORD DRAWINGS have been submitted.

Copies of all testing results and system clearance documentation from regulatory agencies shall also be submitted to the CITY prior to the issuance of the "Certification of Acceptance."

### 11.6 List of Approved Materials and Products

A List of Approved Materials and Products specified in this MANUAL is included in Appendix 'C'. It is the intent of the CITY to review and update Appendix 'C' as



appropriate to ensure efficient operation of the services and facilities under the jurisdiction of this MANUAL. For this purpose, the CITY shall evaluate technical submittals from interested manufacturers or suppliers as it deems necessary.

## **11.7 Placement of Facilities on City Owned Property**

11.7.1 All facilities to be owned and maintained by the CITY shall be placed within right-of-ways, easements, or tracts of land dedicated and legally conveyed to the CITY by the DEVELOPER.

11.7.2 Utilities within the right-of-way shall be located as follows unless otherwise approved or directed by the DIRECTOR.

1. Gravity sanitary sewer mains shall be located in the center of the roadway.
2. Potable water mains shall be located on the opposite side of the right-of-way from where a force main and/or reclaimed water main is located.
3. Reclaimed water mains shall be located on the opposite side of the right-of-way from where a potable water main is located.
4. Sanitary force mains shall be installed on the same side of the right-of-way as the reclaimed water main.

## **11.8 Easements along Non-City Maintained Right-of-Way**

The DEVELOPER shall convey to the CITY a minimum of a twenty (20) foot wide Exclusive City Services Easement dedicated to the CITY which is parallel with and next to all adjacent ORANGE COUNTY, FDOT, and other non-CITY maintained right-of-way. Where future dedication of right-of-way is indicated, the Easement shall be placed adjacent to the future right-of-way line.

## **11.9 Right-of-Way Corner Clips**

A minimum twenty-five (25) foot radius or equal corner clip shall be conveyed to the CITY where all CITY or non-CITY right-of-way lines intersect with each other. This requirement may be accomplished using either General Warranty Deed, or Plat whichever is preferred by the DEVELOPER.

END OF SECTION

**City of Apopka**  
**Utilities**  
**Design and Construction Standards Manual**



**Chapter 2**  
**Design Standards**

<b>Section 20</b>	<b>Gravity Sewers</b>
<b>Section 21</b>	<b>Force Mains</b>
<b>Section 22</b>	<b>Wastewater Pump Stations</b>
<b>Section 23</b>	<b>Water Mains</b>
<b>Section 24</b>	<b>Cross Connection Control</b>
<b>Section 25</b>	<b>Reclaimed Water System</b>

## Section 20 - Gravity Sewers

### 20.1 General

#### 20.1.1 Type of Sewers

The CITY will approve PLANS for new sewer systems and extensions only when such systems are designed in accordance with the criteria set forth in this manual.

#### 20.1.2 Design Period

Sewer systems should be designed for the estimated ultimate tributary population, as delineated in the approved City of Apopka Sewer Master Plan (latest edition).

#### 20.1.3 Location

Gravity sewer mains shall be located within dedicated right-of-way at the center of the road, alleys, or established utility easements with sufficient width. Whenever possible, sewer shall be located under pavement at the center of the road. Where this is not possible, a minimum of a fifteen (15) foot wide CITY SERVICES EASEMENT shall be provided. Additional easement widths shall be provided if the pipe size or depth-of-cover so dictates. In general, the additional width of the easement shall be calculated by adding fifteen (15) feet to the facility's greatest depth and rounding up to the nearest even whole foot.

No mains shall be placed under buildings, retention ponds, tennis courts, swimming pools, or other structures. Unless approved in writing by the DIRECTOR, mains shall not be located within side or rear lot lines. Placement of a main within side or rear lot line may be allowed on a case by case basis if such a configuration results in efficient placement and utilization of the system. This criterion shall also apply to placement of mains in retention pond berms. In general, manholes shall not be placed on side or rear lot lines.

### 20.2 Design Basis

#### 20.2.1 Average Daily Flow

This flow shall be based on full ultimate development as known or projected. Average daily wastewater flow shall be calculated from current Orange County equivalent residential unit (ERU) criteria and shall not exceed the capacity of the serving wastewater treatment facility as established by the Florida Department of Environmental Protection (FDEP) or as approved by the DIRECTOR.

20.2.2 Peak Design Flow

Gravity sewers shall be designed on the basis of ultimate development maximum rates of flow, which shall be the product of selected peak factors times the accumulative average daily flow as calculated below. In general, the following minimum peak factors shall be applicable for the range of average daily flow rates.

**Peak Design Flow Table**

Average Daily Flow Range (GPD)	Minimum Peaking Factor
0 to 100,000	4.0
100,000 to 250,000	3.5
250,000 to 1,000,000	3.0
1,000,000 and greater	2.5

For design average daily flows above two-million (2,000,000) GPD, peaking factors less than two-and-one-half (2.5) may be considered if substantiated by extensive data. Under no circumstances shall peaking factors less than two (2) be allowed.

20.2.3 Design Calculations

DEVELOPER'S ENGINEER shall submit signed, sealed, and dated design calculations with the PLANS for all sewer projects. Calculations shall show that sewers will have sufficient hydraulic capacity to transport all design flows.

**20.3 Design and Construction**

20.3.1 Minimum Size

Gravity sewer mains conveying wastewater shall not be less than eight (8) inches in diameter.

20.3.2 Minimum Cover

The minimum cover over gravity sewers shall be no less than three (3) feet measured from the top of pipe to finished grade, unless otherwise approved by the DIRECTOR.

The maximum manhole depth shall be seventeen (17) feet, unless otherwise approved by the DIRECTOR.

20.3.3 Slope

All sewers shall be designed and constructed to give minimum velocities, when flowing full, of not less than two (2) feet per second, based on Manning's formula using an "n" value of 0.012 for PVC and 0.013 for other pipe materials.

For sewer designs with velocities greater than fifteen (15) feet per second special considerations shall be designed to prevent displacement by erosion and impact.

Sewers shall be laid with uniform slope between manholes.

The following minimum slopes shall be provided with slopes greater than these being desirable.

**Minimum Slope Table**

<i>Minimum Slope in Feet (Per 100 Feet)</i>		
<b>Pipe Size (Inches)</b>	<b>PVC</b>	<b>Other Material (with prior approval)</b>
8	0.28	0.40
10	0.21	0.28
12	0.17	0.22
15	0.12	0.15
18	0.10	0.12
21	0.08	0.10
24	0.07	0.08
27	0.06	0.07
30	0.05	0.06
36	0.04	0.04

20.3.4 Size and Alignments

Size conversion between manholes shall not be allowed. All sewers shall be laid with straight alignments between manholes.

20.3.5 Additional Requirements

Main drain and back wash systems for pools and spas, air conditioning condensate discharge, and storm drain systems shall not connect to the gravity sewer system.

In general, all sewer extensions for future connections shall terminate at a manhole. The CITY may allow such extensions without a terminal manhole on a case-by-case basis subject to all of the following conditions.

1. Total sewer extension length shall be limited to fifty (50) feet.
2. Sewer extension location at the initiating manhole shall be plugged to the satisfaction of the CITY.
3. Such sewer extensions shall not be a part of the accepted sewer facilities. This shall be clearly delineated on the PLANS.
4. All such sewer extensions shall be inspected and accepted as part of the future construction phase.

## **20.4 Manholes**

### 20.4.1 Location

Manholes shall be installed at the end of each gravity sewer pipe run, all changes in grade, size or alignment, and all sewer intersections. Mains with diameters between eight (8) and twenty-four (24) inches shall have a manhole spacing not exceeding four-hundred (400) feet. Manhole depth shall not exceed seventeen (17) feet.

Private sewer systems must be separated from the CITY sewer system by a manhole located at the right-of-way line.

### 20.4.2 Drop Manhole

An outside drop pipe shall be provided for a sewer entering a manhole where its invert elevation is twenty-four (24) inches or more above the manhole invert. Where the difference in elevation between the incoming sewer invert and the manhole invert is less than twenty-four (24) inches, the manhole invert shall be filleted or benched to prevent solids deposition.

### 20.4.3 Diameter

A minimum access cover diameter of twenty-four (24) inches shall be provided. The maximum vertical distance between the top of the manhole cover and the inside top of the manhole structure shall be twenty-four (24) inches.

Manholes shall meet the minimum diameters as shown on the following table.

**Minimum Manhole Diameters Table**

<b>Gravity Main Diameter (Inches)</b>	<b>Minimum Inside Manhole Diameter (Inches)</b>
Up to 24	48
24 to 36	60
36 and Larger	72

20.4.4 Flow Channel

The flow channel through manholes shall be made to conform in shape and slope to that of the sewers. Flow direction changes in excess of ninety (90°) degrees shall not be included in sewer alignments without special consideration. When directional changes exceeding forty-five (45°) degrees occur, an additional flow line elevation drop of 0.1 foot across manholes shall be provided. Benching shall be provided which shall have a minimum slope of two (2) inches per foot.

20.4.5 Materials

Manholes shall be constructed of pre-cast units or reinforced fiberglass product (RFP) as specified in Section 42, of this MANUAL. Brick manholes shall not be permitted. Cast-in-place manholes may be accepted on a case-by-case basis for conflict resolution and shall be lined with a fiberglass liner. Other types of liners must have prior approval.

Manholes that are intercepted with force mains shall be lined using either a reinforced fiberglass product (RFP) or high density polyethylene (HDPE) as specified in Section 42, of this MANUAL.

20.4.6 Castings

Cast iron frames and covers shall be as specified in Section 42, of this MANUAL. Bolt down and/or gasketed covers shall be provided where manholes are located in areas subject to ponding or flooding.

20.4.7 Access

A ten (10) foot wide access road shall be provided for all manholes which are located outside of the CITY'S roadways. The top six (6) inches of the access road shall be stabilized to a Florida Bearing value

of seventy-five (75) psi and compacted to ninety-five percent (95%) of AASHTO T-180.

**20.5 Service and Lateral Connections**

20.5.1 General

Service connection shall be through gravity, and miscellaneous appurtenances, as shown on the STANDARD DETAILS. Laterals not requiring the open cutting of a roadway or driveway may be made to an existing CITY sanitary sewer system by the CITY after payment of all applicable fees and charges. The CITY may perform open cuts to install laterals to an existing CITY sanitary sewer system for single family and duplex residential type structures, on a case-by-case basis, upon payment of all required fees and charges. Laterals to new and existing sanitary sewer systems for structures within new subdivisions, non-residential uses, multi-family residential improvements, and those installations which require the open cutting of a roadway or driveway shall be made by the CONTRACTOR and inspected by the CITY.

The CONTRACTOR shall be responsible for all costs related to the lateral installation and the restoration of all disturbed public and private improvements to CITY standards.

20.5.2 Size and Length

Laterals and fittings shall be a minimum of six (6) inches in diameter. Service laterals shall terminate at the right-of-way. Clean-outs shall be installed by the individual building contractor and inspected by the CITY.

The length of a sewer lateral shall not exceed fifty (50) feet.

20.5.3 Slope

Laterals shall have a minimum slope of one percent (1%).

20.5.4 Connection

In general, laterals shall not be allowed to discharge into sanitary manholes, except at terminal manholes. A case-by-case exception to this requirement may be allowed if the lateral discharges at the same elevation as the manhole invert.

**20.6 Grease Traps**

20.6.1 General

All food preparation and service establishments shall have exterior in-



ground grease traps with traffic rated tops, two access manholes, and sized in accordance with the following requirements. All wastewater flow from the food preparation areas of these establishments must flow through approved grease traps prior to entering the CITY system. However, no domestic waste will be allowed to enter the grease trap. A grease trap will have a minimum volume of seven-hundred-fifty (750) gallons but, may not exceed one-thousand-two-hundred-fifty (1250) gallons. All grease traps and separators shall be designed and constructed to meet the CITY'S Pretreatment Ordinance Ch. 82, Section II, 38.16, (II), (E 2-12), as well as state and federal requirement standards. Construction details are included in the STANDARD DETAILS.

The DEVELOPER'S ENGINEER shall consult with the DIRECTOR before finalizing the design. As a general rule, convenience stores and similar establishments shall install the minimum size grease trap.

Other establishment may be required to install certain treatment prior to discharge to city sanitary sewer system as identified in the latest Commercial Industrial Pretreatment Guidelines or Sewer Use Ordinance adopted by the CITY or as directed by the DIRECTOR.

## **20.7 Materials, Installation and Testing**

Applicable provisions of Chapters 3, 4, 5 and 6 of this MANUAL shall apply.

END OF SECTION

## Section 21 – Force Mains

### 21.1 General

#### 21.1.1 Design Period

Force main systems shall be designed for the estimated ultimate tributary population, as delineated in the approved City of Apopka Wastewater Master Plan (latest edition).

#### 21.1.2 Location

Force mains shall be located within dedicated right-of-ways a minimum of two (2) feet from right-of-way line, but not under the roadway, on the opposite side of the potable water main or as approved by the DIRECTOR. Where this is not possible, a minimum of a twenty (20) foot wide CITY SERVICES EASEMENT shall be provided. Additional easement shall be provided when the pipe size or depth of cover so dictates. If the force main is located adjacent to a road right-of-way, a minimum ten (10) feet easement shall be provided. When installed in right-of-ways, the force main shall maintain a consistent alignment with respect to the centerline of the road.

No mains shall be placed under buildings, retention ponds, tennis courts, swimming pools or other structures. Mains shall not be located within side or rear lot lines. Placement of mains within side or rear lot lines may be allowed on a case-by-case basis if such a configuration results in efficient placement and utilization of the system. These criteria shall also apply to placement of mains in retention pond berms. In general, air release valves and other valves shall not be placed on side or rear lot lines.

### 21.2 Design Basis

#### 21.2.1 Average Daily Flow

This flow shall be based on full ultimate development as known or projected. Average daily wastewater flow shall be calculated from current Orange County equivalent residential unit (ERU) criteria and shall not exceed the capacity of the serving wastewater treatment facility as established by the Florida Department of Environmental Protection (FDEP) or as approved by the DIRECTOR.

#### 21.2.2 Peak Design Flow

Sanitary Sewer systems shall be designed on the basis of ultimate

development maximum rates of flow, which shall be the product of selected peak factors times the accumulative average daily flow as calculated below. In general, the following minimum peak factors shall be applicable for the range of average daily flow rates.

**Peak Design Flow Table**

<b>Average Daily Flow Range (GPD)</b>	<b>Minimum Peaking Factor</b>
0 to 100,000	4.0
100,000 to 250,000	3.5
250,000 to 1,000,000	3.0
1,000,000 and greater	2.5

21.2.3 Design Calculations

DEVELOPER'S ENGINEER shall submit signed, sealed, and dated design calculations with the PLANS for all force main projects. Calculations shall show that force mains will have sufficient hydraulic capacity to transport all design flows and meet the minimum velocity requirements.

**21.3 Design and Construction**

21.3.1 Velocity and Diameter

At design pumping rates, a cleansing velocity of at least two (2) feet per second should be maintained. Maximum velocity at design pumping rates should not exceed eight (8) feet per second for ductile iron pipe or five (5) feet per second for PVC pipe. The minimum force main diameter for force mains located in public utility easements or right-of ways shall be four (4) inches.

21.3.2 Design Friction Losses

Friction losses through force mains shall be based on the Hazen and Williams's formula. In the use of Hazen and Williams's formula, the value for "C" shall be 120 for ductile iron pipe and 130 for PVC pipe. "C" values greater than 130 shall not be allowed.

When initially installed, force mains may have a significantly higher "C" factor. The higher "C" Factor should be considered only in calculating maximum power requirements and duty cycle time of the motor.

### 21.3.3 Design Pressure and Restraint

The force main and fittings, including all restrained joint fittings shall be designed to withstand pump operating pressures and pressure surges, but not less than 100 psi.

Restrained joints shall be used in lieu of thrust blocks. The restrained joint table in the STANDARD DETAILS shall be prepared by the ENGINEER.

### 21.3.4 Termination

Force mains shall not terminate directly into a gravity sewer line. Force mains should enter the gravity sewer system at the flow line of the receiving lined manhole.

### 21.3.5 Air Release and Vacuum Relief Valves

Air release valves, or air/vacuum relief valves, shall be provided, as necessary, to prevent air locking and vacuum formation. All such valves shall be clearly delineated on the force main profile in the DRAWINGS. The DEVELOPER'S ENGINEER shall submit calculations to the CITY justifying the valve sizing. See additional requirements in Section 45, of this MANUAL.

### 21.3.6 Aerial Crossings

Aerial crossings are not permitted without prior approval from the CITY.

#### Structural Support

Support shall be provided for all joints in pipes utilized for aerial crossings. The supports shall be designed to prevent overturning, settlement, and corrosion. Exposed steel parts shall be hot dip galvanized or painted as specified in Section 45, of this MANUAL.

#### Expansion Protection

Expansion joints shall be provided between the aerial and buried sections of pipe.

#### Flood Clearance

For aerial stream crossings, the impact of flood waters and debris shall be considered. The bottom of the pipe shall be placed no lower than one (1) foot above the 100 year base flood elevation.

### Pipe Material

Flanged joints shall be used. Pipe and Flange material shall be ductile iron, minimum class 250 with fiberglass or PVC liner. All above ground pipe shall be painted as specified in Section 45, of this MANUAL for above ground wastewater force mains. Use of epoxy coated steel pipe may be allowed on a case by case basis.

### Valves

Underground valves shall be provided at both ends of the crossing so that the section can be isolated for testing or repair. The valves shall be easily accessible and not subject to flooding. An air release/vacuum relief valve shall be installed at the high point of the crossing.

### Guards

Appropriate fan type guards, as approved by the DIRECTOR, shall be installed at both ends of the crossing to prevent pipe access to the public.

### Permits and Requirements of Other Agencies

It shall be the responsibility of the DEVELOPER to obtain all applicable regulatory permits. When the Aerial Crossing is accomplished by attachment to a bridge or drainage structure, the DEVELOPER shall meet all requirements of the agencies that own or have jurisdiction over such structures.

## 21.3.7 Underwater Crossings

Underwater crossings are not permitted without prior approval from the CITY.

### Pipe Material and Cover

A minimum cover of three (3) feet plus a six (6) inch concrete slab shall be provided over the pipe. The pipe material shall meet appropriate AWWA Standards for use in submerged conditions.

### Valves

Valves shall be provided at both ends of the water crossings so that the section can be isolated for testing or repair. The valves shall be easily accessible, and not subject to flooding. Both valves shall be provided in a manhole or a valve vault.

### Permits

It shall be the responsibility of the DEVELOPER to obtain all applicable regulatory permits, including dredge and fill permits.

#### 21.3.8 Valves

Sufficient valves shall be provided on force main systems to facilitate effective isolation of the pipe system for repairs and maintenance. On straight runs of force mains, valve spacing shall not exceed two-thousand (2000) feet. Additional valves shall be provided where force mains intersect and extensions are anticipated so that isolation of pipe segments can be facilitated.

### **21.4 Material, Installation and Testing**

Applicable provisions of Chapters 3, 4, 5 and 6 of this MANUAL shall apply.

### **21.5 Future Sizing Requirements**

While designing force main systems, consideration shall be given to possible future connecting pumping stations. If applicable, this requirement shall be reviewed with the DIRECTOR prior to finalization of the design. The CITY may require the DEVELOPER to install a larger size to accommodate additional demand identified in the MASTER PLAN. The CITY shall pay the DEVELOPER the cost difference in material cost of the required facility and the oversized facility.

### **21.6 Private Force main Tie-Ins**

Force mains from private pump stations that tie into CITY force mains shall be designed to CITY standards.

END OF SECTION

## Section 22 – Wastewater Pump Stations

### 22.1 General

The design standards outlined in this Section apply to public or private wastewater pump stations discharging three-thousand (3000) gallons per minute (GPM) or less.

Private pump stations shall be designed in accordance with the pump manufacturer's criteria, the regulations of the FDEP, and the applicable Sections of this MANUAL, such as this Section.

If dedication to the CITY is desired, pump stations shall be municipally rated and of the submersible type.

For the design of pump stations discharging more than three-thousand (3000) GPM, the type of pump station and the basis of design shall be reviewed by the DIRECTOR with approval obtained before proceeding with the design.

### 22.2 Design

#### 22.2.1 Design Flows

Design flow shall be based upon the total ultimate development flow from all contributory areas to the pump station. The design average daily flow shall be computed as outlined in Section 20 of this MANUAL. The design pumping capability of the station shall be based upon the Peak Design Flow which shall be calculated by multiplying the design average flow with the applicable minimum peaking factors as outlined in the following table.

**Peak Design Flow Table**

Average Daily Flow Range (GPD)	Minimum Peaking Factor
0 to 100,000	4.0
100,000 to 250,000	3.5
250,000 to 1,000,000	3.0
1,000,000 and greater	2.5

For design average daily flows above 2,000,000 GPD, peaking factors less than two-and-one-half (2.5) may be considered if substantiated by extensive data. Under no circumstances shall peaking factors less than two (2) be allowed.



### 22.2.2 Number of Pumps

For pump stations with a peak design flow of one-thousand (1000) GPM or less, a minimum of two pump units shall be provided. Where the peak design flow exceeds one-thousand (1000) GPM, three or more units shall be provided. See Section 22.5, "Emergency Operation", of this MANUAL for standby requirements.

### 22.2.3 Pump and Motor Selection

The pump station shall be capable of pumping the peak design flow with the largest pumping unit out of service. Pumps shall be capable of meeting all system hydraulic conditions without overloading the motors. The minimum allowable horsepower rating of a lift station pump is 5 HP. Head capacity curves shall be prepared and submitted to the CITY along with the pump station plans. Such curves shall be based upon the friction losses outlined in Section 21 of this MANUAL. Head capacity curves shall verify that the pumps are operating at peak efficiency and are suitable for the design flow application.

Pump and motor selection and head capacity curves shall reflect hydraulic conditions in cases where receiving force main systems are interconnected to additional pumping stations.

### 22.2.4 Design Calculations

DEVELOPER'S ENGINEER shall submit signed, sealed, and dated design calculations for all wastewater pump stations. Calculations shall include head capacity curves with copies of the manufacturer's pump curves, hydraulic analysis of force main system, operating cycle calculations with wet well sizing, buoyancy calculations, and electrical calculations.

## 22.3 **Detail Design and Construction**

### 22.3.1 Flooding

Wastewater pumping station structures and electrical and mechanical equipment shall be protected from physical damage by 100 year flood events. The finished top elevation of the submersible station's wet well and valve vault or the above ground station's finished floor elevation shall be a minimum of one (1) foot above said event's designated elevation or eighteen (18) inches above the crown of the adjacent roadway, whichever is higher. Wastewater pumping stations shall remain fully operational and accessible during the 100 year flood. Regulations of Local, State, and Federal agencies regarding flood plain

obstructions shall be complied with.

#### 22.3.2 Accessibility

The pumping station shall be readily accessible by maintenance vehicles during all weather conditions. The access road to the pumping station shall be paved using concrete. Consideration shall be given to providing sufficient maneuvering space for CITY vehicles servicing the pumping station with the wet-well being a minimum thirty-five (35) feet from the back of the curb. The facility shall not be located in public or private right-of-ways. In a phased development, the pumping station shall be situated within the boundaries of the initial phase.

#### 22.3.3 Buoyancy

Buoyancy of pump station structures shall be considered and adequate provisions shall be made for protection.

#### 22.3.4 Pump Requirements

Wastewater pump stations shall comply with the requirements as stated in Section 47 of this MANUAL. Only approved pumps listed in Appendix "C" of this MANUAL shall be allowed for pumps subject to dedication to the CITY. Pumps and motors shall be designed specifically for raw sewage use, including totally submerged operation during a portion of each pumping cycle for submersible pump stations. Submersible pumps shall be readily removable and replaceable without de-watering the wet well or disconnecting any piping in the wet well. Pumps shall be capable of handling raw sewage and passing spheres of at least three (3) inches in diameter. Pump suction and discharge openings shall be at least four (4) inches in diameter.

#### 22.3.5 Wet Well

Wet well shall be minimum six (6) feet in diameter and shall have a minimum 4.5 feet of depth below the lowest invert. Additional depth shall be provided based on station design and cycle time.

Pumping levels shall be set to provide a minimum capacity between operational water levels sufficient to allow a minimum of five (5) minutes between successive starts of the pumps under normal flow conditions.

Pump-off water levels shall provide adequate submergence to preclude pump inlet vortexing, or air binding. Operational maximum water levels shall not exceed the invert elevation of the influent pipe.

The wet well floor shall have a minimum slope of one (1) to one (1), to the hopper bottom. The horizontal area of the hopper bottom shall be no greater than necessary for proper installation and function of the pump

inlet. Interior ladders shall not be permitted in the wet well. Only one inlet connection shall be permitted to a wet well unless otherwise approved by the DIRECTOR. All wet wells shall be constructed of fiberglass or precast concrete with a fiberglass liner or other equivalent type liner.

#### 22.3.6 Wash-Down Water Supply

All wastewater pump stations shall be provided with a potable water system with adequate capacity and pressure for station wash down and other requirements. The station water system shall be completely separated from the potable water supply by means of a reduced pressure zone (RPZ) type backflow preventer or other CITY approved device.

#### 22.3.7 Electrical Equipment and Power Supply

Requirements in Sections 47 and 48, of this MANUAL shall apply.

#### 22.3.8 Controls

Requirements in Section 48, of this MANUAL shall apply.

#### 22.3.9 Site Sizing and Easement Requirements

Pump station sites shall be sized as delineated on the "Pump Station Site Plan" in the STANDARD DETAILS. The DEVELOPER shall dedicate the pump station site by warranty deed and/or plat to the CITY. Dedicated easements may also be required around the site. The property for the paved access drive shall also be dedicated to the CITY by warranty deed or plat. An exception to this requirement may be allowed, on a case-by-case basis as approved by the DIRECTOR, in the form of an ingress/egress easement for the access drive.

#### 22.3.10 Site Fencing

Perimeter fencing at a pump station site, shall comply with the technical criteria established in Section 46 of this MANUAL. All pump station sites shall be fenced using six (6) foot high decorative type fencing or masonry wall, with brick or stone finish, approved by the City of Apopka, Community Development Department. These specifications shall also apply to the gate.

Chain link or wooden fencing is not allowed.

## **22.4 Flow Meters**

Indicating, totalizing and recording flow measurement shall be provided at pumping stations designed to handle peak flows of one-thousand (1000) GPM or more. Applicable provisions of Section 46, of this MANUAL shall apply.

Bypass piping around the meter shall be provided to facilitate meter maintenance.

## **22.5 Emergency Operation**

All pump stations shall be provided with emergency power receptacles as specified in Section 48, of this MANUAL. All pump stations shall be equipped with a SCADA system. The SCADA system shall be installed by the CITY. The cost of each system shall be paid for by the DEVELOPER. The amount shall be the actual cost at time of installation of the system, plus 10% to cover the cost of spare parts.

An on-site emergency generator shall be required for pump stations that operate near a body of water or some other critical location or have a peak flow volume that exceeds one-thousand (1000) GPM. The generator shall be sized to power the lift station under full-load conditions and provide fuel storage for a forty-eight (48) hour period. The emergency power generator and fuel tank shall be installed and in operation prior to issuing a Certificate of Acceptance.

## **22.6 Private Pump Stations**

### **22.6.1 Signage**

Privately owned and maintained pump stations shall provide a sign that identifies the current owner and provides a twenty-four (24) hour per day, seven (7) days a week emergency response telephone number. The aluminum sign shall be clearly visible from the adjacent roadway, and use two (2) inch high white letters on a green background made of engineering grade reflective materials, and measure a minimum of eighteen (18) inches high by twenty-four (24) inches long. The sign shall be mounted on the perimeter security fencing with the bottom of the sign a minimum of four (4) feet above finish grade.

END OF SECTION

## Section 23 – Water Mains

### 23.1 General

#### 23.1.1 Approval

The CITY will approve PLANS for water supply mains and extensions only when such mains are designed in accordance with the criteria set forth in this MANUAL.

#### 23.1.2 Design Period

Water mains should be designed for the estimated ultimate tributary population, as delineated in the approved City of Apopka, Water Master Plan (latest edition). Water systems shall be designed to satisfy the domestic water demand and fire protection requirements for the area.

#### 23.1.3 Location

Water mains shall be located within dedicated right-of-ways eight (8) feet from the right-of-way line, but not under the roadway, and shall be installed at the opposite side of the reclaimed water main and force main or as approved by the DIRECTOR. Where this is not possible, a minimum of a twenty (20) foot wide CITY SERVICES EASEMENT shall be provided. Additional easement widths shall be provided if the pipe size or depth-of-cover so dictates. In general, the additional width of the easement shall be calculated by adding fifteen (15) feet to the facility's greatest depth and rounding up to the nearest even whole foot.

No mains shall be placed under buildings, retention ponds, tennis courts, swimming pools, or other structures. Unless approved in writing by the DIRECTOR, mains shall not be located within side or rear lot lines. Placement of mains within side or rear lot lines may be allowed on a case by case basis if such a configuration results in efficient placement and utilization of the system. These criteria shall also apply to placement of mains in retention pond berms. In general, valves shall not be placed on side or rear lot lines.

### 23.2 Design Basis

#### 23.2.1 Maximum Day Demand and Peak Hour Demand

These flows shall be based on full ultimate development as known or projected. Maximum day demand shall be calculated by multiplying the average daily demand by two-and-one-half (2.5). Peak hour demand shall be calculated by multiplying the average daily demand by four (4).

Average daily demand shall be calculated from current Orange County equivalent residential connection (ERC) criteria and shall not exceed the capacity of the serving water distribution facility as established by the Florida Department of Environmental Protection (FDEP) or as approved by the DIRECTOR.

#### 23.2.2 Fire Flow Requirements

Fire flow demand shall at a minimum be 500 gpm, as outlined in the CITY Land Development Code. Fire flow demand will be subject to approval by both the CITY Fire Department and CITY Design Engineering Division. Where fire flow requirements exceed the anticipated available fire flow from the central water system, on-site fire protection system, or other Fire Department approved mitigation measures shall be utilized.

#### 23.2.3 Design Calculations

DEVELOPER'S ENGINEER shall submit signed, sealed and dated design calculations with the PLANS for all water distribution projects. Calculation shall show the water mains will have sufficient hydraulic capacity to provide for maximum day demand plus fire flow demand or peak hour demand, whichever is greater, as outlined in the CITY Land Development Code while meeting the requirements of this Section of this MANUAL. Head losses through meters and backflow devices, and values shall also be included in calculations.

### 23.3 **Detail of Design and Construction**

#### 23.3.1 Pressure

All water mains shall be designed in accordance with this section. A minimum pressure of twenty (20) psi, or greater if required by the current FDEP regulations, at all points shall be maintained in the distribution system under all conditions of flow. Higher pressures may be required at commercial, industrial, and high density residential areas. The normal working pressure in the distribution system should be approximately fifty-five (55) psi, but in no case less than thirty-five (35) psi on the downstream side of a meter. For pressures greater than ninety (90) psi, special provisions may be required. Design Friction Losses for water mains shall be as specified.

#### 23.3.2 Diameter

Four (4) inch water mains shall be permitted only in cul-de-sacs with a maximum length of five-hundred (500) feet of pipe and not service Fire hydrants. In cul-de-sacs, the water main shall be looped to prevent

dead ends.

As a minimum, six (6) inch looped systems, shall be required in single family and duplex residential areas. Where the looping of mains back to existing CITY facilities is not practical, a minimum of an eight (8) inch main shall be required.

In nonresidential and multiple family residential areas, a minimum of an eight (8) inch looped main shall be required. Where the looping of mains back to existing CITY facilities is not practical, a minimum of a ten (10) inch main shall be required.

Larger size mains shall be required if necessary to allow the withdrawal of the required fire flow while maintaining the minimum residual pressure specified in this MANUAL.

### 23.3.3 Fire Hydrant Location and Spacing

The maximum actual travel distance between hydrants in single family and duplex residential areas shall be five-hundred (500) feet and the maximum actual travel distance between the principal building and a hydrant shall be two-hundred-fifty (250) feet. The maximum actual travel distance between hydrants in nonresidential and multiple family residential areas shall be five-hundred (500) feet and the maximum actual travel distance between the principal building and a hydrant shall be two-hundred-fifty (250) feet. Hydrants to be maintained by the CITY or privately maintained hydrants shall be painted as directed by the Fire Department.

### 23.3.4 Dead Ends

In order to provide increased reliability of service and reduce head loss, dead ends shall be minimized by making appropriate tie-ins whenever practical, as determined by the CITY. Mains in cul-de-sacs shall be looped as detailed in the STANDARD DETAILS.

Where dead-end mains occur, they shall be provided with a fire hydrant or blow-off for flushing purposes.

### 23.3.5 Valves

Sufficient valves shall be provided on water mains so that inconvenience and sanitary hazards will be minimized during repairs. Valves shall be located at not more than five-hundred (500) foot intervals in nonresidential and multiple family residential areas and not more than one-thousand (1000) foot intervals in all other areas. Appropriate valving shall also be provided at all areas where water mains intersect to ensure effective isolation of water lines for repair, maintenance or future

extension. As a minimum, valves shall be placed on at least two of the three legs of a tee or three of the four legs of a cross.

### 23.3.6 Separation of Water Mains and Sewers

The minimum separation requirements are described in FDEP rules of the FAC Rule 62-555.314. These requirements shall apply between newly proposed utility lines and existing or proposed utility lines.

Refer to Section 51, of this MANUAL for applicable requirements. No water pipe shall pass through or come in contact with any part of a storm or sanitary sewer manhole.

Extreme caution should be exercised when locating water mains at or near certain locations such as septic tanks, drain fields, wastewater and industrial facilities, that could pose potential health risks.

FDEP separation standards shall be complied with.

### 23.3.7 Surface Water Crossings

The CITY must provide its approval before PLANS are prepared for a surface water crossing.

## 23.4 **Water Services and Connections**

Water services and connections shall conform to the applicable provisions of Sections of this MANUAL and the STANDARD DETAILS.

Single services shall be a minimum of one (1) inch in diameter. Services and connections up to two (2) inches shall be made to an existing CITY system by the CITY after payment of all applicable fees and charges, unless the CITY instructs the CONTRACTOR to do so. Services and connections larger than two (2) inches to new and existing potable water systems shall be made by the CONTRACTOR and inspected by the CITY.

The CONTRACTOR shall be responsible for all costs related to the installation and the restoration of all disturbed public and private improvements to CITY standards.

## 23.5 **Water Metering**

### 23.5.1 General

All water service connections shall be metered. The method of metering will follow the guidelines listed below. All meters must be compatible with the CITY'S Automated Metering Reading (AMR) system. The DEVELOPER'S ENGINEER must obtain approval before finalizing the



design of the metering system. All meters subject to vehicular traffic shall be installed in a traffic rated meter box. Meter boxes shall not be installed in sidewalks or driveways.

23.5.2 Single Family, Duplex, and Multi-Family Subdivisions with Public Right-of-Ways

Each unit shall be individually metered. Meters shall be installed at the property line within the ten (10) foot utility easement in individual single meter boxes as indicated by the STANDARD DETAILS.

23.5.3 Single Family, Duplex and Multi-Family Subdivisions with Private Streets

Individual meters may be permitted in accordance with this Section of this MANUAL if the private streets are designed to CITY standards and easements are dedicated over the entire private street common areas. In addition, sufficient area must be available outside of paved areas to locate water mains, services, and meters.

23.5.4 Commercial, Industrial, and Institutional Projects without Private Fire Lines

Buildings shall be individually metered when adjacent to a public right-of-way. Meter(s) shall be located within the ten (10) foot utility easement at the property line. Developments with multiple buildings and/or units shall be master metered unless otherwise approved by the DIRECTOR.

23.5.5 Commercial, Industrial, Institutional, Multi-Family with Private Streets, Apartments, and Condominium Projects with Private Fire Lines

All commercial, industrial, institutional, multi-family with private streets, apartments, and condominium projects with private fire lines shall be required to install a fire line master meter. A combination meter with a fire flow bypass and double check valve assembly, as a minimum, shall be required as determined by the CITY or a dual system (separate domestic and fire lines) may be required.

23.5.6 Shopping Centers

Shopping centers and associated out-parcels shall be required to install a fire line master meter to service the entire development or a dual system; separate domestic and fire lines, may be required. In extreme cases, individual meters to each unit may be considered on a case-by-case basis subject to the DEVELOPER executing a "Meter Installation and Easement Agreement".

23.5.7 Meter Installation

All meters two (2) inches or smaller in size shall be installed underground in an approved meter box.

Meters that are three (3) inches or larger shall be installed above ground by the developer to CITY design standards unless otherwise approved by the DIRECTOR.

Meters shall be located in an easement adjacent to, but outside of the public right-of-way. All meters shall be compatible with the CITY'S Automated Meter Reading (AMR) system. The DEVELOPER'S ENGINEER shall coordinate the location of each water meter service line and meter so as to avoid conflict or potentially dangerous situations.

Electrical transformers shall not be located over a water service line. Water meter(s) shall not be used for the grounding of an electrical service.

#### 23.5.8 Meter Sizing

The size of all meters shall be recommended by the DEVELOPER'S ENGINEER and approved by the DIRECTOR. The DEVELOPER'S ENGINEER shall provide sufficient information, when requested by the DIRECTOR, on estimated peak flows and low flows so that the meter size can be verified. The DEVELOPER'S ENGINEER shall include head losses through a metering device when designing the water system.

### **23.6 Material, Installation and Testing**

Applicable provisions of Chapters 3, 4, 5 and 6 of this MANUAL shall apply.

END OF SECTION

## Section 24 – Cross Connection Control

### 24.1 General

In order to protect the public water supply system from contamination due to cross-connections, the DEVELOPER shall install CITY approved backflow prevention devices in accordance with the most recent edition of the CITY'S Cross Connection Control Ordinance and in accordance with the American Water Works Association (AWWA).

Buildings and developments containing existing fire protection facilities or any process that may constitute a hazard to the public water supply system shall be retrofitted to CITY standards whenever a building permit is required or inspected and found to be out of compliance with state standards. All such devices shall be constructed as detailed in the STANDARD DETAILS.

All devices shall be tested when initially installed and annually by the OWNER with the certified test results forwarded to the CITY.

#### 24.1.1 Cross Connection Control Devices

1. Pressure Vacuum Breaker Assembly (PVBA) - For low and high health hazard uses. To be installed a minimum of twelve (12) inches above highest irrigation sprinkler head, ground level, or risers, but not to exceed five (5) feet above ground level.

PVBA devices are restricted to irrigation system use only.

2. Reduced Pressure Zone Assembly (RPZA) - For high health hazard uses. To be installed a minimum of twelve (12) and a maximum of thirty-six (36) inches above ground level, risers, or ground level irrigation sprinkler heads.
3. Double Check Valve Assembly (DCVA) - For low health hazard uses only. DCVA devices may be approved for installation in a vault.
4. Reduced Pressure Zone-Detector Check Valve Assembly (RPZ-DCVA) - Same uses and installation as above for RPZA. Installed where low flows or unauthorized use may occur.
5. Double Detector Check Valve Assembly (DDCVA) - Same uses and installation as above for DCVA. Installed where low flows or unauthorized use may occur.

24.1.2 Vertically Installed Cross Connection Control Devices

As the normal installation of a cross connection control device is in the horizontal position and is therefore typically designed for that orientation, only devices approved by AWWA or the University of Southern California's Foundation for Cross Connection Control and Hydraulic Research for vertical installation shall be allowed.

END OF SECTION

## Section 25 – Reclaimed Water System

### 25.1 General

#### 25.1.1 Approval

The CITY will approve plans for reclaimed water supply mains and extensions only when such mains are designed in accordance with the criterion set forth in this MANUAL. All developments shall be required to incorporate the use of reclaimed water in the area identified by the CITY Reclaimed Water Master Plan, to be serviced with reclaimed water. At the time of plan review, the developer shall be required to design, construct and connect to the CITY reclaimed water supply system.

If the reclaimed water is not available within one (1) mile of the proposed development, but within the CITY, Utility Service Area, as identified in the CITY Reclaimed Water Master Plan and determined by the CITY to be serviced by reclaimed water, the developer shall be required to design and construct a dual-system to include main line and connection services to each lot or parcel. The system shall utilize potable water until such time that reclaimed water is available.

The developer shall be responsible for all cost necessary to provide on-site distribution and off-site transmission to the dual-system.

Where reclaimed water is available, potable water shall not be used for irrigation. Irrigation wells shall not be allowed in areas where reclaimed water is available unless approved by the DIRECTOR.

#### 25.1.2 Design Period

Reclaimed water shall be designed for the extended ultimate tributary population, as determined in the approved City of Apopka, Reclaimed Water Master Plan (latest edition).

#### 25.1.3 Location

Reclaimed water mains shall be located within eight (8) feet of dedicated right-of-way line, but not under the roadway, and on the opposite side of the potable water main or within established utility easements with sufficient width or as approved by the DIRECTOR. Where this is not possible, a minimum of fifteen (15) feet wide CITY service easement shall be provided. Additional easement width shall be provided if the pipe size or depth of cover so dictates.

In general, the additional width of the easements shall be calculated by an addition of fifteen (15) feet to the facilities greatest depth and rounded up to the nearest even whole foot.

No mains shall be placed under buildings, retention ponds, tennis courts,

swimming pools or other structures unless approved in writing by the DIRECTOR or his designee. Mains shall not be located within the side or rear lot lines. Placement of mains within side or rear lot lines are not permitted unless approved in writing by the DIRECTOR. This criterion shall also apply to placement of mains in retention pond berms. No valves of any type may be placed on side or rear lot lines.

## **25.2 Design Basis**

### **25.2.1 Average Daily Flows and Peak Flows**

Average daily reclaimed flow shall be calculated by current established figures from the St. Johns River Water Management District (SJRWMD), Florida Department of Environmental Protection (FDEP), or as approved by the DIRECTOR.

### **25.2.2 Design Calculations**

The DEVELOPER'S ENGINEER shall submit signed, sealed and dated Design Calculations with the PLANS for all reclaimed water distribution projects. Calculations shall demonstrate the reclaimed water mains will have sufficient hydraulic capacity to transport peak hourly flows while meeting the requirements of this Section of this MANUAL. Head losses through meters and valves shall also be included in the calculations.

## **25.3 Detail of Design and Construction**

### **25.3.1 Pressure**

All reclaimed water mains shall be designed in accordance with Section 25.2.2 above. A minimum pressure of forty (40) psi, at all points shall be maintained in the distribution system under all conditions of flow. Higher pressure may be required at commercial, industrial and high demand residential areas.

The normal, non-peak pressure, in the distribution system should be approximately fifty-five (55) psi, but in no case less than forty (40) psi on the downstream side of a meter. For pressure greater than ninety (90) psi, special provisions may be required. Design friction losses for reclaimed water shall be as specified in this MANUAL. When designing the distribution system, the engineer shall assume that seventy-five percent (75%) of the residences are irrigating at the same time.

### **25.3.2 Diameter**

As a minimum, four (4) inch looped systems shall be required in order to provide increased reliability of service and reduce head loss, dead ends

shall be minimized by making appropriate tie-ins, whenever practical as determined by the DIRECTOR. Mains in cul-de-sacs shall be looped as detailed in the standard drawing. A four (4) inch main shall be designed to service no more than fifteen (15) single family lots with a lot size being a half acre or less.

### 25.3.3 Valves

Sufficient valves shall be provided on reclaimed water so that inconveniences will be minimized during repairs. Valves shall be located at not more than one-thousand (1000) feet intervals unless approved by the DIRECTOR. Appropriate valving shall also be provided at all areas where reclaimed water mains intersect to insure effective isolation of reclaimed water mains for repair. Valves shall be placed on at least two (2) of the three legs of a tee or three (3) of the four legs of a cross.

### 25.3.4 Separation of Reclaimed Water Mains

Refer to Section 61, of this MANUAL for applicable requirements. No reclaimed water pipe shall pass through a storm or sanitary sewer manhole. FDEP separation standards shall be complied with.

### 25.3.5 Surface Water Crossings

Surface water crossings are not permitted without prior approval from the CITY.

### 25.3.6 Air Relief Valves

Automatic air relief valves shall be placed on the high points of a reclaimed water main to prevent the accumulation of air.

### 25.3.7 Chamber Drainage

Chambers, pits or manholes containing air relief valves, blow-offs, meters or other appurtenances to a distribution system, shall not be connected directly to any storm drain or gravity sewer.

## 25.4 **Reclaimed Water Services and Connections**

Reclaimed water services and connections shall conform to the applicable provisions of Sections 60 and 61, of this MANUAL and the STANDARD DETAILS.

Single services shall be a minimum of one (1) inch in diameter. Reclaimed water services and connections up to two (2) inches being made to an existing CITY system shall be made by the CITY, unless the CITY instructs the contractor to do

so after payment of all applicable fees and charges. Services and connections larger than two (2) inches to new and existing reclaimed water system shall be made by the contractor and inspected by the CITY.

The contractor shall be responsible for all costs related to the installation and restoration. All disturbed public and private property shall be restored to CITY standards.

## **25.5 Reclaimed Water Metering**

### **25.5.1 General**

All reclaimed water service connections shall be metered. The method of metering will follow the guidelines listed below. The DEVELOPER'S ENGINEER must obtain approval before finalizing the design of the metering system. All meters subject to vehicular traffic shall be installed in a traffic rated meter box. Meter boxes shall not be installed in sidewalks or driveways.

### **25.5.2 Single Family, Duplex, and Multi-Family Subdivisions with Public Right-of-Way**

Each unit shall be individually metered and placed in individual single meter boxes as indicated by the standard drawings. Meters shall be installed at the property line within the ten (10) foot utility easement.

### **25.5.3 Single Family and Duplex Subdivisions with Private Streets**

Individual meters may be permitted in accordance with Section 23.5 of this MANUAL if the private streets are designed to CITY standards and easements are dedicated over the entire private street common areas. Sufficient area must be available outside of the paved area to locate reclaimed mains, services and meters.

### **25.5.4 Commercial, Industrial and Institutional Projects**

All such projects shall require a master meter. The meter shall be at a minimum located within a ten (10) foot by ten (10) foot utility easement.

### **25.5.5 Shopping Centers**

In general, shopping centers and associated out-parcels shall require the installation of a master meter to service the entire development. In extreme cases, individual meters to each parcel may be considered.



#### 25.5.6 Meter Installation

All meters two (2) inches or smaller in size shall be installed underground in an approved meter box.

Meters that are three (3) inches or larger shall be installed above ground by the developer to CITY design standards.

Meters shall be located in an easement adjacent to, but outside of the public right-of-way. All meters shall be compatible with the CITY'S Automated Meter Reading (AMR) system. The DEVELOPER'S ENGINEER shall coordinate the location of each reclaimed water meter service line and meter so as to avoid conflict or potentially dangerous situations.

Electrical transformers shall not be located over a reclaimed water service line. Reclaimed water meter(s) shall not be used for the grounding of an electrical service.

#### 25.5.7 Meter Sizing

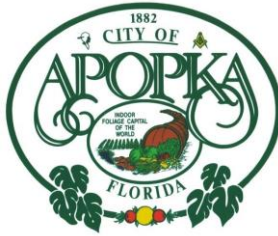
The size of all meters shall be recommended by the DEVELOPER'S ENGINEER and approved by the DIRECTOR. The DEVELOPER'S ENGINEER shall provide sufficient information, when requested by the DIRECTOR, on estimated peak flows and low flows so that the meter size can be verified. The DEVELOPER'S ENGINEER shall include head losses through a metering device when designing the water system.

#### 25.5.8 Meter Installation and Testing

Applicable provisions of Chapters 3, 4, 5 and 6 of this MANUAL shall apply.

END OF SECTION

**City of Apopka**  
**Utilities**  
**Design and Construction Standards Manual**



**Chapter 3**

**General Construction Requirements**

<b>Section 30</b>	<b>General</b>
<b>Section 31</b>	<b>Site Preparation</b>
<b>Section 32</b>	<b>Excavation, Backfill, Compaction and Grading</b>
<b>Section 33</b>	<b>Directional Drilling</b>
<b>Section 34</b>	<b>Boring and Jacking</b>
<b>Section 35</b>	<b>Pressure Pipe Restraint</b>
<b>Section 36</b>	<b>Pressure Pipe Connection</b>

## Section 30 – General

### 30.1 Grades, Survey Lines and Protection of Monuments

#### 30.1.1 Grade

All WORK shall be constructed in accordance with the lines and grades shown on the PLANS. The full responsibility for keeping alignment and grade shall rest upon the CONTRACTOR.

Elevation benchmarks and horizontal control points shall be established prior to beginning of WORK. The CITY shall not be responsible for providing horizontal or vertical survey controls.

Line and grade reference marks should be placed so as to cause as little interference to the work as possible. The CONTRACTOR shall not place excavation or any other materials that may cause an inconvenience in the use of the reference marks.

#### 30.1.2 Surveys

The CONTRACTOR shall furnish and maintain, at his own expense, stakes, markers and other such materials as well as give assistance, including qualified helpers, for setting reference marks to the satisfaction of the CITY and the ENGINEER. The CONTRACTOR shall check such reference marks by such means as shall be necessary and, before using this, shall call to the CITY'S attention any inaccuracies. The CONTRACTOR shall, at his own expense, establish all working or construction lines and grades as required from the reference marks and shall be solely responsible for the accuracy thereof. The CONTRACTOR shall, be subject to the check and review of the CITY.

#### 30.1.3 Monument Preservation

Property corners and survey monuments shall be preserved using care not to disturb or destroy them. If a property corner or survey monument is disturbed or destroyed during construction, whether by accident, careless work or required to be disturbed or destroyed by the construction work, said property corner or survey monument shall be restored by a land surveyor registered in the State of Florida. All costs for this work shall be paid for by the CONTRACTOR.

## **30.2 Utility Coordination**

### **30.2.1 Location of Utilities**

Prior to proceeding with trench excavation, the CONTRACTOR shall contact the FLORIDA STATE SUNSHINE ONE CALL system and all non-member utility companies in the area to aid in locating their underground utilities. It shall be the CONTRACTOR'S responsibility to contact utility companies at least seventy-two (72) hours before starting construction. The CONTRACTOR shall proceed with caution in the excavation and preparation of the trench so that the exact location of underground utilities may be determined.

The CONTRACTOR shall take all reasonable precautions against damaging existing utilities. However, in the event of a break in an existing water main, gas main, sewer, underground cable or any other utility, the CONTRACTOR shall immediately notify the responsible official of the organization operating the interrupted utility. The CONTRACTOR shall lend all possible assistance in restoring services. The responsibility for all costs, charges, or claims connected with the interruption and repair of such services shall be determined in accordance with Florida Statutes.

### **30.2.2 Deviations Occasioned by Structures or Utilities**

Wherever obstructions are encountered during the progress of the WORK and interfere to such an extent that an alteration in the PLANS is required, the CITY shall have the authority to order a deviation from the line and grade or arrange with the owners of the structures for the removal, relocation, or reconstruction of the obstructions. Where gas, water, telephone, electrical or other existing utilities are an impediment to the vertical or horizontal alignment of the proposed pipe line, the CITY shall order a change in grade or alignment or shall direct the CONTRACTOR to arrange with the owners of the utilities for their removal. If a change in line or grade of a gravity sewer is necessary, the CITY will require the addition of any manholes needed to maintain the integrity of the sewer system.

### **30.2.3 Test Pits**

Test pits for the purpose of locating underground pipeline, utilities, or structures in advance of the construction shall be excavated and backfilled by the CONTRACTOR. Test pits shall be backfilled immediately after their purpose has been satisfied and maintained in a manner satisfactory to the CITY. The costs for such test pits shall be borne by the CONTRACTOR.

### **30.3 Maintenance of Traffic and Closing of Streets**

Where required by the CITY, the CONTRACTOR shall provide a Maintenance of Traffic (MOT) Plan to the CITY for approval prior to the beginning of any construction activities. The CONTRACTOR shall carry on the WORK in a manner which will cause a minimum of interruption to traffic. An MOT Plan shall be submitted to the CITY for approval, a minimum three (3) working days prior to the beginning of work.

Where traffic must cross open trenches, the CONTRACTOR shall provide suitable bridges at street intersections and driveways. The CONTRACTOR shall post suitable signs indicating that a street or sidewalk is closed and necessary detour signs for the proper maintenance of traffic. Prior to the closing of any streets or sidewalk, the CONTRACTOR shall notify and obtain the approval of responsible authorities and the CITY.

Unless permission to close a street or sidewalk is received in writing from the proper authority, (CITY, COUNTY, FDOT, etc.) no construction operations shall impact normal vehicular and/or pedestrian traffic. If the CONTRACTOR'S operations cause traffic hazards, he shall repair the road surface, provide temporary ways, erect wheel guards, fences, or any other precaution necessary to maintain safety to the satisfaction of the CITY.

Detours around construction will be subject to the approval of the authority having jurisdiction and the CITY. Where detours are permitted, the CONTRACTOR shall provide all necessary barricades and signs as required to safely divert the flow of traffic. While traffic is detoured, the CONTRACTOR shall expedite construction operations. Periods when traffic is being detoured will be strictly controlled by the CITY.

It shall be the sole responsibility of the CONTRACTOR to take precautions to prevent injury to the public due to open trenches. Night watchmen may be required where special hazards exist, or police protection provided for traffic while work is in progress. The CONTRACTOR shall be fully responsible for damage or injuries whether or not police protection has been provided.

### **30.4 Protection of Public and Property**

#### **30.4.1 Barricades, Guards and Safety Provisions**

The CONTRACTOR shall be solely responsible for adhering to the rules and regulations of OSHA and appropriate authorities regarding safety provisions. To protect persons from injury and to avoid property damage, adequate barricades, construction signs, lights, and guards as required shall be placed and maintained by the CONTRACTOR at his/her expense during the progress of the WORK and until it is safe for traffic to use the roads and streets. All material piles, equipment, and pipe, which may serve as obstructions to traffic, shall be enclosed by

fences or barricades and shall be protected by proper lights when the visibility is poor.

All signage and barricades shall be in accordance with the most current issue of the Manual on Uniform Traffic Control Devices (MUTCD), the Traffic Control and Safe Practices Manual, and the Florida Department of Transportation's Roadway and Traffic Design Standards.

#### 30.4.2 Protection of Utility Structures

Temporary support, adequate protection, and maintenance of all underground and surface utility structures including, but not limited to drains, sewers, manholes, hydrants, valves, valve covers, power poles, and miscellaneous other utility structures encountered in the progress of the WORK shall be furnished by the CONTRACTOR at his expense. Any such structures which may have been disturbed shall be restored to the satisfaction of the CITY upon completion of the WORK.

#### 30.4.3 Open Excavation

The CONTRACTOR shall comply with the Florida Trench Safety Act. All open excavations shall be adequately safeguarded by providing temporary barricades, caution signs, lights, and other means to prevent accidents to persons and damage to property. The CONTRACTOR shall, at his own expense, provide suitable and safe bridges with hand railings and other crossings for accommodating travel by pedestrians and workmen. Bridges provided for access to private property during construction shall be removed when no longer required. The length of open trench will be controlled by the particular surrounding conditions, but shall be limited to three-hundred (300) feet unless otherwise approved by the CITY.

If the excavation becomes a hazard, or if it excessively restricts traffic at any point, the CITY may require special construction procedures, such as limiting the length of open trench, fencing, prohibiting excavated material in the street, and requiring that the trench shall not remain open overnight. The CONTRACTOR shall take precautions to prevent injury to the public due to open trenches. All trenches, excavated material, equipment, or other obstacles which could be dangerous to the public shall be well lighted at night.

#### 30.4.4 Protection of Trees and Shrubs

All trees and shrubs not shown to be removed on the PLANS shall be protected by the CONTRACTOR at his expense. No excavated materials shall be placed so as to injure such trees or shrubs. Trees or shrubs destroyed by negligence of the CONTRACTOR or its employees

shall be replaced by him with new stock of similar or equivalent Diameter Breast Height (DBH) and age at the sole expense of the CONTRACTOR. The DBH of all trees shall be measured at four and one half (4 1/2) feet from the ground.

#### 30.4.5 Protection of Lawn Areas

Lawn areas shall be left in as good or better condition as before starting of the WORK. Where sod is to be removed, it shall be carefully restored with new sod of the same type.

#### 30.4.6 Restoration of Private Property

Fences and other private property improvements, or any part thereof, that is damaged or removed during the course of the WORK shall be replaced or repaired by the CONTRACTOR and shall be left in as good or better condition as before the beginning of the WORK. The manner in which the improvement is repaired or replaced and the materials used shall be subject to the approval of the CITY and the property owner.

#### 30.4.7 Protection against Siltation and Bank Erosion

The CONTRACTOR shall arrange his operations to minimize siltation and bank erosion on construction sites and on existing or proposed water courses and drainage ditches. Silt barriers and protective measures shall be used when the CONTRACTOR is working adjacent to wetlands and other sensitive areas. The CONTRACTOR, at his own expense, shall remove any siltation deposits and restore to original grade.

### **30.5 Access to Public Services**

Neither the materials excavated nor the materials or equipment used in the construction of the WORK shall be so placed as to prevent free access to public services. All excavated material shall be piled in a manner that will not endanger the WORK and that will avoid obstructing streets, sidewalks, and driveways. Excavated material suitable for backfilling shall be stockpiled separately on the site. No material shall be placed closer than two (2) feet from the edge of an excavation. Fire hydrants under pressure, valve pit covers, valve boxes, curb stop boxes, or other utility controls shall be left unobstructed and accessible until the WORK is completed. Gutters shall be kept clear or other satisfactory provisions made for street drainage. Natural water courses shall not be obstructed or polluted. Surplus material and excavated material unsuitable for backfilling shall be transported and disposed of off-site in disposal areas obtained by the CONTRACTOR.

### **30.6 Public Nuisance**

The CONTRACTOR shall not create a public nuisance including but not limited to encroachment on adjacent lands, flooding of adjacent lands, or excessive noise or dust. The CONTRACTOR shall control noise to the extent practicable at all times.

### **30.7 Construction Hours**

The CONTRACTOR shall conduct WORK between the hours of 7 a.m. – 6 p.m. Monday - Friday, 8 a.m – 5 p.m. Saturday, and no WORK Sunday, unless approved by the CITY ENGINEER. CITY WORK will be conducted on a NORMAL WORKING DAY during NORMAL WORKING HOURS. In the event that the proper and efficient execution of the WORK necessitates CITY inspection outside NORMAL WORKING HOURS, the CONTRACTOR shall reimburse the CITY for all costs associated with inspection staff overtime. Written notification for doing the WORK shall be provided to the CITY a minimum forty-eight (48) hours before starting WORK within the above restricted hours and shall be subject to the availability of the inspection staff.

### **30.8 Construction in Easements and Right-of-Way**

#### **30.8.1 Construction in Easements**

In easements across private property, the CONTRACTOR shall confine all operations within the center of the easement area and shall be responsible and liable for all damage outside of the easement area. Trees, fences, shrubbery, or other type of surface improvements located in easements shall be protected during construction. Precautions shall be taken by adequate sheeting or other approved method to prevent any cave-in or subsidence beyond the easement limits or damage to improvements within the easement. In general, the easement area is intended to provide reasonable access and working area for efficient operation by the CONTRACTOR. Where easement space for efficient operation is not provided, the CONTRACTOR shall be responsible for organizing his operations to perform within the restrictions shown on the PLANS. The CONTRACTOR shall be responsible for fully restoring all disturbed property to its pre-construction condition up to and including re-sodding with similar type grass, replacing fences, etc.

#### **30.8.2 Construction in FDOT and Orange County Right-of-Way**

The CONTRACTOR shall strictly adhere to the requirements of the Florida Department of Transportation (FDOT) and Orange County where construction work is in a right-of-way under either jurisdiction and shall take care to avoid any unreasonable traffic conflicts due to the WORK in said right-of-way.



### 30.8.3 Construction in City Right-of-Way

WORK done within the CITY's right-of-way shall be governed by this MANUAL.

## **30.9 Suspension of Work due to Weather**

During inclement weather all WORK which might be damaged or rendered inferior by such weather conditions shall be suspended. During suspension of the WORK from any cause, the WORK shall be suitably covered and protected so as to preserve it from injury by the weather or otherwise. Partially installed pipe shall be plugged and restrained to prevent flotation.

## **30.10 Use of Chemicals**

All chemicals used during project construction or furnished for project operation, whether herbicide, pesticide, disinfectant, polymer, reactant, or any other classification, must show the approval of either the United States Environmental Protection Agency (EPA) or United States Department of Agriculture (USDA) and be applied by a State of Florida licensed individual. Use of all such chemicals and disposal of residues shall be in strict conformance with label instructions.

## **30.11 Cooperation with Other Contractors and Entities**

During construction progress, it may be necessary for other contractors and persons employed by the CITY to work in or about the site. The CITY reserves the right to put such other contractors to work and to afford such access to the construction site and at such times as the CITY deems proper. The CONTRACTOR shall not impede or interfere with the work of such other contractors and shall cooperate with the other contractor(s) for proper prosecution of the WORK.

## **30.12 Subsurface Exploration**

The CONTRACTOR shall make such subsurface explorations as he believes necessary to perform the WORK.

## **30.13 Cleaning**

### 30.13.1 During Construction

During construction, the CONTRACTOR shall, at all times, keep the construction site and adjacent premises as free from material, debris, and rubbish to the extent practicable and shall remove the same from any portion of the site if, in the opinion of the CITY, such material, debris, or rubbish constitutes a nuisance or is objectionable.

### 30.13.2 Final Cleaning

At the conclusion of the WORK, all tools, temporary structures, and materials belonging to the CONTRACTOR shall be promptly taken away. The CONTRACTOR shall remove and promptly dispose of all water, dirt, rubbish, or any other foreign substances.

### 30.14 **Salvage**

Any existing CITY-owned equipment or material, including but not limited to valves, pipes, fittings, couplings, bricks, millings, curbing, structures, etc., which are removed or replaced as a result of construction may be designated as salvage by the CITY and, if so, shall be carefully excavated if necessary and delivered to the CITY at a location within the CITY.

### 30.15 **Shop Drawings and Samples**

For projects that are to remain private, the CONTRACTOR shall submit three (3) copies of all shop drawings, unless otherwise requested by the CITY, reviewed, signed and sealed by the DEVELOPER'S ENGINEER, to the CITY prior to the beginning of construction. The CITY shall receive for approval, prior to the start of construction, two (2) copies that the CITY will keep of said documents for projects that are to be dedicated to the CITY. The data shown on the shop drawings shall be complete with respect to dimensions, design criteria, materials of construction, and the like to enable review of the information as required.

The CONTRACTOR shall, if requested by the CITY, furnish certificates, affidavits of compliance, test reports, or samples for analysis of any of the materials not specified in this MANUAL.

END OF SECTION

## Section 31 – Site Preparation

### 31.1 General

This Section covers site preparation including clearing, grubbing, dust control and restoration of construction sites. The CONTRACTOR shall clear and grub all of the area(s) within the limits of construction as shown on the PLANS and approved by the CITY prior to the beginning of any WORK. All site work shall conform to the applicable site clearing, landscaping, and arbor regulations of the CITY.

### 31.2 Clearing and Grubbing

#### 31.2.1 Clearing

The surface of the ground in the area to be cleared and grubbed shall be completely cleared of all timber, brush, stumps, roots, grass, weeds, rubbish, and all other objectionable obstructions resting on or protruding through the surface of the ground. The CONTRACTOR shall avoid encroaching into wetlands. Trees and shrubs shall be preserved as specified in Section 30 of this MANUAL. Clearing operations shall be conducted in a manner that prevents damage to existing and proposed structures and installations and provides for the safety of employees and others.

#### 31.2.2 Grubbing

Grubbing shall consist of the complete removal of all stumps, roots larger than 1-1/2 inches in diameter, matted roots, brush, timber, logs, and any other organic or metallic debris not suitable for foundation purposes, resting on, under, or protruding through the surface of the ground to a depth of eighteen (18) inches below the sub-grade. All depressions excavated below the original ground surface for or by the removal of such objects shall be refilled with suitable materials and compacted to a density conforming to the surrounding ground surface.

#### 31.2.3 Stripping

In areas so designated, topsoil shall be stripped and stockpiled. Topsoil so stockpiled shall be protected until it is placed as specified. The CONTRACTOR shall dispose of any topsoil remaining after all WORK is in place.

#### 31.2.4 Disposal of Clearing and Grubbing Material

The CONTRACTOR shall at his expense dispose of all material and debris from the clearing and grubbing operation in accordance with all applicable ordinances.

**31.3 Dust Control**

The CONTRACTOR shall control dust resulting from clearing and grubbing operations to prevent nuisance to adjacent property owners and the general public. The CONTRACTOR shall use dust control methods and materials approved by the CITY.

**31.4 Surface Removal**

Along the proposed pipe lines as indicated on the PLANS, the CONTRACTOR shall remove the surface materials only to such widths as will permit a trench to be excavated and which will afford sufficient room for proper efficiency and proper construction. Pavement removal shall be saw cut with straight lines prior to excavation. All applicable CITY and FDOT regulations shall be followed. Where sidewalks, driveways, pavements, and curb and gutter are encountered, care shall be taken to protect against fracture or disturbance beyond reasonable working limits. All fractured, broken, or disturbed surfaces shall be restored to their original condition prior to completion of the WORK.

**31.5 Restoration**

Restoration of all surfaces including road sub-base, limerock base, asphaltic concrete surface, cement concrete pavement and driveways, sidewalks, handicap ramps, and concrete curbs shall be in strict accordance with this MUNUAL and the codes and regulations of any applicable Local, State or Federal agency. Solid sodding shall be placed on all slopes greater than 4:1, within ten (10) feet of all proposed structures, where existing sod is removed or disturbed by the WORK, and where needed to control erosion. In addition, the CONTRACTOR shall restore all storm drains, culverts, inlets, and storm manholes to equal or better condition.

The CONTRACTOR shall replace existing sections of sidewalks that intersect at roadways and driveways which do not contain handicap ramping with a 12 to 1 maximum sloped facility per CITY, Americans with Disabilities Act (ADA) and FDOT specifications when it is necessary to remove or damage those sections during construction.

END OF SECTION

**Section 32 – Excavation, Backfill, Compaction and Grading**

**32.1 General**

This Section covers excavation, backfill, fill, and grading associated with utility construction. The CONTRACTOR shall furnish all labor, materials, equipment, and incidentals necessary to perform all excavation, backfill, fill, compaction, grading, and slope protection required to complete the WORK shown on the DRAWINGS and specified within this MANUAL. The WORK shall include, but not necessarily be limited to: pump stations, manholes, vaults, conduit, pipe, roadways, paving, backfilling grading, disposal of surplus and unsuitable materials, and all related WORK such as trenching, sheeting, bracing, de-watering and water handling.

**32.2 Soil Borings and Subsurface Investigations**

The DEVELOPER’S ENGINEER shall examine the site and undertake subsurface investigations, including soil borings. Written reports, including any recommendations by the GEOTECHNICAL / SOILS ENGINEER, concerning said investigations shall be provided to the CITY during the plans review process. The CITY will not be responsible for presumed or existing soil conditions in the WORK area.

**32.3 Existing Utilities**

The CONTRACTOR shall locate existing utilities in the area(s) of WORK in accordance with Sunshine State One Call regulations, Chapter 556, “Underground Facility Damage Prevention Act”, of the Florida Statutes. The CONTRACTOR is responsible for subsurface verification of all existing utilities prior to construction. If utilities are to remain in place, the CONTRACTOR shall provide adequate means of protection during earthwork operations. Should un-located or incorrectly located utilities be encountered during excavation, the CONTRACTOR shall notify the CITY and owner of the utility immediately so as not to delay the WORK.

**32.4 Materials**

32.4.1 General

Materials for use as bedding and backfill shall be as described under this Section. The CONTRACTOR shall, upon request by the CITY, make an appropriate sample of this material available for testing by the CITY or its designated representative.

32.4.2 Common Fill

Common fill shall consist of mineral soil, substantially free of clay,

organic material, loam, wood, trash, and other objectionable material which may be compressible or which cannot be compacted properly. Common fill shall not contain stones larger than three (3) inch in any dimension, asphalt, broken concrete, masonry, rubble, or other similar materials. It shall have physical properties such that it can be readily spread and compacted during filling. Additionally, common fill shall be no more than twelve (12) percent by weight finer than the No. 200 mesh sieve unless finer material is approved for use in a specific location by the CITY.

Material falling within the above specifications, encountered during the excavation, may be stored in segregated stockpiles for reuse. All material which, in the opinion of the CITY is not suitable for reuse, shall be spoiled as specified within this MANUAL for disposal.

#### 32.4.3 Select Common Fill

Select common fill shall be as specified above from common fill, except that the material shall contain no stones larger than 1-1/2 inches in largest dimension, and shall be no more than five (5) percent by weight finer than the No. 200 mesh sieve.

#### 32.4.4 Bedding Rock

Bedding rock shall conform to FDOT No. 57 aggregate.

### 32.5 **Shoring**

#### 32.5.1 General

If required to support the sides of excavations, to prevent any movement which could in any way diminish the width of the excavation. It is necessary for proper construction to protect adjacent structures, existing pipe and/or foundation material from disturbance, undermining or other damage. Care shall be taken to prevent voids outside of the sheeting, but if voids are formed, they shall be immediately filled and rammed.

The CONTRACTOR shall comply with the Florida Trench Safety Act.

#### 32.5.2 Miscellaneous Requirements

Unless otherwise approved or indicated on the PLANS, all sheeting and bracing shall be removed after completion of the substructure. All voids left or caused by withdrawal of sheeting shall be immediately refilled with sand by ramming with tools specifically adapted to that purpose, by watering or otherwise as may be directed.

## **32.6 De-watering, Drainage and Flotation**

### **32.6.1 General**

The CONTRACTOR shall excavate, construct, and place all pipelines, concrete work, fill, and bedding rock, "in-the-dry". In addition, the CONTRACTOR shall not make the final twenty-four (24) inches of excavation until the water level is a minimum of one (1) foot below proposed bottom of excavation. For purposes of these specifications, "in-the-dry" is defined to be within two (2) percent of the optimum moisture content of the soil. The CITY reserves the right to ask the CONTRACTOR to demonstrate that the water level is a minimum of one (1) foot below proposed bottom of excavation before allowing the construction to proceed.

Discharge water shall be clear with no visible soil particles. Discharge from dewatering shall be disposed of in such a manner that it will not interfere with the normal drainage of the area in which the WORK is being performed, create a public nuisance, or form ponding. The operations shall not cause injury to any portion of the WORK completed, or in progress, or to the surface of streets, or to private property. The dewatering operation shall comply with the requirements of the National Pollutant Discharge Elimination System (NPDES) and other STATE and COUNTY regulatory agencies. Additionally, where private property will be involved advance permission from the owner of record shall be obtained by the CONTRACTOR.

De-watering shall at all times be conducted in such a manner as to preserve the natural undisturbed bearing capacity of the sub-grade soils at proposed bottom of excavation.

The CONTRACTOR shall furnish all materials and equipment and perform all work required to install and maintain the drainage systems for handling groundwater and surface water encountered during construction of structures, pipelines, and compacted fills.

During backfilling and construction, water levels shall be measured in observation wells. Observation wells shall be located as directed by the CITY.

Continuous pumping will be required as long as water levels are required to be below natural levels.

## 32.7 Excavation

### 32.7.1 General

Excavation consists of removal, storage, and disposal of material encountered when establishing required grade elevations and in accordance with the notes shown on the PLANS.

Authorized earth excavation includes removal and disposal of pavements and other obstructions visible on ground surface, underground structures, and utilities indicated to be demolished and removed, and other materials encountered that are not classified as rock excavation or unauthorized excavation. Unauthorized excavation consists of removal of material beyond the limits needed to establish required grade and sub-grade elevations without specific direction of the CITY. Unauthorized excavation, as well as remedial work directed by the CITY shall be at the CONTRACTOR'S expense. Such remedial work shall be performed as directed by the CITY.

If requested by the CITY, when excavation has reached required sub-grade elevations, a GEOTECHNICAL / SOILS ENGINEER shall make an inspection of conditions. If the sub-grade is unsuitable, the CONTRACTOR shall remove and replace all unsuitable material below the pipe with selected common fill or bedding rock, compacted to ninety-five percent (95%) percent of the maximum density as per AASHTO T-180 modified proctor.

If the CONTRACTOR excavates below grade through error, for his own convenience, through failure to properly dewater the excavation, or disturbs the sub-grade before dewatering is sufficiently complete, he may be directed by the CITY to excavate below grade and refill the excavation using select common fill or bedding rock at his expense.

Side slopes of excavations shall comply with CITY regulations and with OSHA requirements. The CONTRACTOR shall shore and brace where sloping is not possible due to space restrictions or stability of the material excavated. Sides and slopes shall be maintained in a safe condition until completion of backfilling.

CONTRACTOR shall stockpile satisfactory excavated materials at a location approved by the CITY until required for backfill or fill. When needed in the WORK, material shall be located and graded at the direction of a GEOTECHNICAL/SOILS ENGINEER. Stockpiles shall be placed and graded for proper drainage. All soil materials shall be located away from the edge of excavations. All surplus and/or unsuitable excavated material shall be legally disposed of by the CONTRACTOR. Any permits required for the hauling and disposing of this material shall



be obtained by the CONTRACTOR prior to commencing hauling operations.

### 32.7.2 Excavations for Structures

All such excavations shall conform to the elevations and dimensions shown on the PLANS within a tolerance of plus or minus 0.10 feet and extending a sufficient distance from footings and foundations to permit placing and removing formwork, installation of services and other construction, inspection or as shown on the DRAWINGS.

### 32.7.3 Trench Excavation

Excavation for trenches required for the installation of utility pipe shall be made to the depths indicated on the approved PLANS to provide suitable room for laying the size and type of pipe specified.

Excavations shall not exceed normal trench width as specified in this MANUAL. Any excavation that exceeds the normal trench width shall require special backfill requirements as determined by the CITY.

Where the pipe is to be laid directly on the trench bottom, the lower part of the trenches shall not be excavated to grade by machinery. The last of the material being excavated shall be done manually in such a manner that will give a shaped bottom, true to grade, so that the pipe can be evenly supported on undisturbed material.

## 32.8 **Bedding and Backfill**

### 32.8.1 General

Material placed in fill areas under and around structures and pipelines shall be deposited within the lines and to the grades shown on the approved PLANS or as directed by the CITY, making due allowance for settlement of the material. Fill shall be placed only on properly prepared surfaces which have been inspected and approved by the CITY.

Fill shall be brought up in uniform twelve (12) inch (maximum level) lifts starting in the deepest portion of the excavation. The entire surface of the work area shall be maintained free from ruts and in such condition that construction equipment can readily travel over any section.

Fill shall be placed and spread in layers by an approved method. Prior to the process of placing and spreading, all materials not meeting those specified under this MANUAL shall be removed from the fill areas.

Fill materials shall be placed and compacted "in-the-dry". The CONTRACTOR shall dewater excavated areas as required to perform

the WORK and in such a manner as to preserve the undisturbed state of the natural inorganic soils.

Prior to filling, the ground surface shall be prepared by removing vegetation, debris, unsatisfactory soil materials, obstructions, and deleterious materials. When existing ground surface has a density less than that specified under this Section of this MANUAL for the particular area classification, the CONTRACTOR shall break up the ground surface, pulverize, moisture-condition to the optimum moisture content, and compact to required depth and percentage of maximum density.

The CONTRACTOR shall compact each layer to required percentage of maximum dry density or relative dry density in accordance with this Section of this MANUAL.

### 32.8.2 Bedding and Backfill for Structures

Bedding rock shall be used for bedding under all structures as indicated in this MANUAL and in the STANDARD DETAILS. The CONTRACTOR shall take all precautions necessary to maintain the bedding in a compacted state and to prevent washing, erosion, or loosening of this bed. Select fill shall be used as backfill against the exterior walls of the structures.

Fill shall be compacted sufficiently in accordance with this Section of this MANUAL.

Backfilling shall be carried up evenly on all walls of an individual structure. No backfill shall be allowed against walls until the walls and their supporting slabs, if applicable, have attained sufficient strength.

In locations where pipes pass through structure walls, the CONTRACTOR shall take precautions to consolidate the fill up to the spring line of the pipe. Select fill in such areas shall be placed for a distance of not less than three (3) feet either side of the center line of the pipe in level layers not exceeding eight (8) inches in depth.

The surface of filled areas shall be graded to smooth true lines that strictly conform to grades indicated on the approved PLANS. No soft spots or un-compacted areas will be allowed in the work area.

Temporary bracing shall be provided as required during construction of all structures to protect partially completed structures against all construction loads, hydraulic pressure, and earth pressure. The bracing shall be capable of resisting all loads applied to the walls as a result of backfilling.

### 32.8.3 Bedding and Backfill for Pipes

Bedding for pipe shall be as shown on the PLANS and detailed on the STANDARD DETAILS. The CONTRACTOR shall take all precautions necessary to maintain the bedding in a compacted state and to prevent washing, erosion, or loosening of this bed.

Backfilling over and around pipes shall begin as soon as practicable after the pipe has been laid, jointed, and inspected. All backfilling shall be prosecuted expeditiously and as detailed on the STANDARD DETAILS.

Any space remaining between the pipe and sides of the trench shall be carefully backfilled, spread by hand or approved mechanical device, and thoroughly compacted with a tamper as fast as placed, up to a level of one (1) foot above the top of the pipe. The filling shall be carried up evenly on both sides. Compaction shall be in accordance with the STANDARD DETAILS and this Section of this MANUAL.

The remainder of the trench above the compacted backfill as just described above, shall be filled and thoroughly compacted in uniform layers not exceeding twelve (12) inches in depth. Compaction of soil backfill shall be in accordance with the STANDARD DETAILS and this Section of this MANUAL.

### 32.8.4 Flowable Fill

Where roadway and other improved sections are required to be open-cut, FDOT #121, excavatable flowable fill may be used. The sub-base shall extend one (1) foot above the top of pipe, without voids, and shall be compacted to ninety-five percent (95%) of the maximum density per AASHTO T-180. The flowable fill will extend from the compacted sub-base to grade, allowing room to match the existing asphalt.

## 32.9 **Compaction**

### 32.9.1 General

The CONTRACTOR shall control soil compaction during construction to provide the percentage of maximum density specified. The CONTRACTOR shall provide the CITY copies of all soils testing reports, prepared by a GEOTECHNICAL / SOILS ENGINEER, demonstrating compliance with this MANUAL.

When the existing trench bottom has a density less than that specified under this Section of this MANUAL, the CONTRACTOR shall break up the trench bottom surface, pulverize, moisture-condition to the optimum moisture content, and compact to required depth and percentage of

maximum density.

### 32.9.2 Percentage of Maximum Density Requirements

Fill or undisturbed soil from the bottom of the pipe trench to one (1) foot above the pipe shall be compacted to a minimum density of ninety-five percent (95%) of the maximum dry density as determined by AASHTO T-180.

Backfill from one (1) foot above utility pipes to grade shall be compacted to a minimum density of ninety-five percent (95%) of the maximum dry density as determined by AASHTO T-180. Fill under and around structures, to the extent of the excavation, shall be compacted to a minimum density of ninety-five percent (95%) of the maximum dry density as determined by AASHTO T-180.

### 32.9.3 Compaction Tests

One compaction test location shall be required for each three-hundred (300) linear feet of pipe and each structure. The CITY may determine that more compaction tests are required to certify the installation depending on field conditions. The locations of compaction tests within the trench shall be in conformance with the following schedule:

1. One test at the spring line of the pipe.
2. At least one test for each twelve (12) inch layer of backfill within the pipe bedding zone for pipes twenty-four (24) inches and larger.
3. One test at an elevation of one (1) foot above the top of the pipe.
4. One test for each two (2) feet of backfill placed from one (1) foot above the top of the pipe to finished grade elevation.

Density testing is required around manholes. Tests shall be within three (3) feet of the structures outside diameter and staggered. The first test shall be one (1) foot above the structure base, with subsequent tests being made every two (2) feet to finished grade.

If, based on GEOTECHNICAL / SOILS ENGINEER testing reports and inspection, fill which has been placed with below specified density, CONTRACTOR shall provide additional compaction and testing prior to commencing further construction.

### **32.10 Grading**

All areas within the limits of construction, including transition areas, shall be uniformly graded to produce a smooth uniform surface. Areas adjacent to structures or paved surfaces shall be graded to drain away from structures and pavement. Ponding shall be prevented. After grading, the area shall be compacted to the specified depth and percentage of maximum density.

No grading shall be done in areas where there are existing pipelines that may be uncovered or damaged until such lines have been relocated.

### **32.11 Maintenance**

CONTRACTOR shall protect newly graded areas from traffic and erosion and keep them free of trash and debris. CONTRACTOR shall repair and reestablish grades in settled, eroded, and rutted areas.

Where completed compacted areas are disturbed by subsequent construction operations or adverse weather, CONTRACTOR shall scarify surface, reshape, and compact to required density prior to further construction.

### **32.12 Inspection and Quality Assurance**

#### **32.12.1 Inspection**

CONTRACTOR shall examine the areas and conditions under which excavating, filling, and grading are to be performed and not proceed with the WORK until unsatisfactory conditions have been corrected.

CONTRACTOR shall examine existing grade prior to commencement of WORK and report to the CITY if elevations of existing grade vary from elevations shown on the PLANS.

#### **32.12.2 Quality Assurance**

All work shall be performed in compliance with applicable requirements of governing authorities having jurisdiction.

The CONTRACTOR, at his expense, shall engage GEOTECHNICAL / SOILS ENGINEER for quality assurance testing during earthwork operations.

Quality assurance testing shall be performed during construction to ensure compliance with these Specifications. CONTRACTOR shall allow the GEOTECHNICAL / SOILS ENGINEER to inspect and approve fill materials and fill layers before further construction is performed. The CONTRACTOR shall give copies of all test results in a report form to the

DIRECTOR to demonstrate compliance with compaction requirements stipulated in this MANUAL.

END OF SECTION

### Section 33 – Directional Drilling

#### 33.1 General

##### 33.1.1 Scope of Work

The WORK specified in this section consists with the furnishing and installing of underground utilities using the horizontal directional drilling (HDD) method of installation, also referred to as directional boring. The WORK in this Section includes furnishing all material, equipment, transportation, tools and labor necessary to install pipe by the horizontal directional drilling method and all related WORK for a complete installation.

##### 33.1.2 Criteria for Selection of Technology

Upon approval by the CITY, pipe installation technology described in this Section may be utilized for installation of utility infrastructure that is to be owned or operated by the CITY or that will be connected to existing CITY utility infrastructure.

##### 33.1.3 Material Standards

The pipe material shall be PVC or HDPE pipe with ductile iron pipe outside diameters in accordance with AWWA C900, C901, C905 or C906 respectively. The dimension ratio (DR) shall be verified by the CONTRACTOR based on the pipe, joint and material pull strength required for the directional drilling.

##### 33.1.4 Quality Assurance

The directional drilling CONTRACTOR performing the WORK shall have a minimum of four (4) years prior experience constructing water, wastewater or reclaimed water with pipe of the same or larger diameter and same or greater length. The materials shall be installed in conformance with the Directional Crossing Contractors Association’s (DCCA) published guidelines (latest edition), the pipe manufacturer’s guidelines and recommendations and the CITY specifications. All pipe and appurtenances of similar type and material shall be furnished by a single manufacturer.

The CONTRACTOR shall obtain a certificate of inspection from the pipe manufacturer which certifies that the pipe and fittings supplied have been inspected by the manufacturer and meet the requirements of the materials specification herein. The certification shall be made available to the CITY upon request. Materials that do not conform to the specifications will be rejected and shall be removed at the expense of the CONTRACTOR.

### 33.1.5 Submittal

CONTRACTOR shall maintain a complete set of project records. The CONTRACTOR shall maintain a daily activity log during horizontal directional drilling operations. A copy of the log shall be submitted to the DIRECTOR for record purposes on a daily basis. These documents shall include but not be limited to:

1. Start and finish time of each section of drill pipe, for pilot hole drilling and reaming.
2. For pilot hole drilling, drill bit location at least every thirty (30) feet along the drill path. The CONTRACTOR will mark the RECORD DRAWINGS on a daily basis with the drilling progress.
3. General description for each ground condition drilled.
4. Details and perceived reasons for delays greater than one (1) hour other than normal breaks and shift changes.
5. Details of any unusual conditions or events.

### 33.1.6 Record Drawings

The CONTRACTOR shall keep and maintain at the construction site a complete set of field drawings for recording of “as-built” conditions. Upon completion of construction, the CONTRACTOR shall be required to provide an “as-built” drawing that plots the pipe installation with reference dimensions to locations on the DRAWINGS. The CONTRACTOR shall sign the “as-built” RECORD DRAWINGS and provide them to the CITY at the end of construction.

### 33.1.7 Utility Protection

1. Utility lines and structures indicated on the DRAWINGS which are to remain in service, shall be protected by the CONTRACTOR from any damage as a result of his operations. Where utility lines or structures not shown on the drawings are encountered, the CONTRACTOR shall report them to the OWNER before proceeding with the work. The CONTRACTOR shall bear the cost of repair or replacement of any utility lines or structures which are broken or damaged by his/her operations.
2. All utilities in close proximity to the drill pilot bore, back ream or product pipe installation must be exposed through a “pot-hole” or other opening, in accordance with appropriate utility locate laws



and regulations, to ensure, through visual inspection, that the drill, reamer or product pipe has not caused damage to the utility and maintains adequate clearance.

- 3. The CONTRACTOR shall take the following steps prior to commencing drilling operations in a location which might contain underground facilities:
  - A. Contact the utility or utility location/notification service, if appropriate for the construction area.
  - B. Positively locate and stake all existing lines, cables, or other underground facilities including exposing any facilities which are located within ten (10) feet of the designed drilling path.
  - C. Modify drilling practices and down-hole assemblies to prevent damage to existing facilities.

**33.2 Materials**

**33.2.1 High Density Polyethylene (HDPE) Pipe**

Materials used for the manufacture of high-density polyethylene pipe and fittings shall comply with all requirements of ASTM D1248 and Plastic Pipe Institute (PPI) designation PE3408. Manufacturer shall be a member in good standing of the Plastic Pipe Institute. HDPE pipe and fittings shall comply or exceed AWWA Standards C901/C906, ASTM D2513, ASTM D3035 and ASTM F714. The manufacturer shall supply a letter of certification stating compliance to all the above standards prior to shipping any material to project site. The HDPE material shall have required ultraviolet inhibitors to resist degradation by direct and prolong sunlight. The design of HDPE materials shall be based on the hydrostatic design basis (HDB) of one-thousand-six-hundred (1600) psi at 73.4 degrees Fahrenheit. Pipe shall be designed and produced to ductile iron diameters and to the dimensional ratios listed on the following table:

**HDPE Dimensional Ratio Table**

Type of Utility	Dimensional Ratio
Wastewater	11
Reclaimed Water	11
Potable Water	11

33.2.2 HDPE Pipe of 2-inch Nominal Diameter

HDPE pipe of two (2) inch nominal diameter shall be joined by means of zero leak rate thermal butt fusion weld and/or approved flanged joints. All joints shall provide axial pull-out resistance. The pipe shall have an outside diameter dimension of Schedule 40 iron pipe. Flanged joints shall not be used underground for horizontal directional drilling applications.

33.2.3 HDPE Pipe of 4-inch and Larger Nominal Diameter

HDPE pipe four (4) inch and larger nominal diameter shall be joined by means of zero leak-rate butt (thermal heat) fusion welds and/or approved fused adapter joints. Joints shall provide axial pullout resistance. Pipe shall meet the requirements of ANSI/AWWA C906, and have an outside diameter dimension of ductile iron pipe.

Where connections are to be made to mechanical joint (MJ) fittings a fused MJ adapter shall be used.

33.2.4 Polyvinyl Chloride (PVC) Restrained Joint Pipe

PVC restrained joint pipe shall have maximum dimension ratios equal to the following table.

**PVC Dimensional Ratio Table**

Type of Utility	Dimensional Ratio
Wastewater	25
Reclaimed Water	18
Potable Water	18

PVC pipe shall meet the requirements of AWWA C900 and C905. The pipe shall be joined using separate couplings that have beveled edges, built-in sealing gaskets and restraining grooves or steel ring-and-pin gasketed joints. The restraining splines shall be square and made from Nylon 101. Pipe and couplings shall be Underwriters Laboratory and Factory Mutual approved. Pipe deflection shall not exceed manufactures specifications.

33.2.5 Pipe Identification

All HDPE pipe shall have been continuously marked by the manufacturer with permanent printing indicating at a minimum:

1. Nominal size (inches)

2. Dimension ratio (DR)
3. Pressure rating (psi)
4. Trade name
5. Material classification (PE 3408)
6. Plant, extruder, and operator codes
7. Resin supplier code
8. Date produced
9. HDPE pipe used for potable water mains shall bear the NSF Seal of Approval

### 33.2.6 Pipe Color

HDPE pipe shall be black in color with permanent colored stripes extruded into the pipe length or shall be one solid color, per the applicable service as illustrated in the following table.

**Pipe Color Table**

Type of Utility	Color Coding
Wastewater	Green
Reclaimed Water	Pantone Purple
Potable Water	Blue

## 33.3 Installation

### 33.3.1 Equipment

A qualified representative of the CONTRACTOR shall be in direct charge and control of the installation at all times. The representative shall be thoroughly knowledgeable of the equipment and procedures to be performed, and shall be continuously present at the project site during directional drilling operations. The equipment used in the installation shall be fluid-assisted with mechanical cutting head. Equipment shall be set up and used according to manufacturer's recommendation.

### 33.3.2 Joint Fusion

The Product Pipe (HDPE pipe) shall be joined together using thermal butt fusion according to ASTM D-2657. The CONTRACTOR'S welders of plastic pipe must possess skill, knowledge, and formal training by a qualified instructor to consistently produce high quality thermal butt fusion joints as identified in ASTM D-2657. The CONTRACTOR'S welders must utilize care in the identified heating operation to prevent

damage to the plastic material from overheating or having the material not sufficiently heated to assure a sound joint.

The CONTRACTOR shall supply written certification that welders are able to produce thermal butt fusion joint according to ASTM D-2657.

All joints shall be visually inspected and compared to standards for good joints for this type of pipe.

### 33.3.3 Fusion Test Strap

The first fusion of the day shall be a trial fusion. The trial fusion shall be allowed to cool completely, and then fusion test straps shall be cut out. The test strap shall be twelve (12) inches or 30 times the wall thickness in length (minimum) and one (1) inch or 1.5 times the wall thickness in width (minimum). The test strap shall be bent until the ends of the strap touch. If the fusion fails at the joints, a new trial fusion shall be made, cooled completely, and tested. But fusion of pipe to be installed shall not commence until a trial fusion has passed the bent strap test.

### 33.3.4 Drilling System

The directional drilling machine shall consist of a hydraulically powered system to rotate, push and pull hollow drill pipe into the ground at a variable angle while delivering a pressurized fluid mixture to a guidable drill (bore) head. The machine shall be anchored to the ground to withstand the pulling, pushing and rotating pressure required to complete the crossing. The hydraulic power system shall be self-contained with sufficient pressure and volume to power drilling operations. Hydraulic system shall be free of leaks. Rig shall have a system to monitor and record maximum pullback pressure during pullback operations. The rig shall be grounded during drilling and pullback operations. There shall be a system to detect electrical current from the drilling string and an audible alarm that automatically sounds when an electrical current is detected.

### 33.3.5 Drilling Fluids

The Contractor must use a high quality bentonite drilling fluid or equivalent to ensure hole stabilization, cuttings transport, bit and electronics cooling and hole lubrication to reduce drag on the drill pipe and the product pipe. Oil based drilling fluids or fluids or fluids containing additives that can contaminate the soil or ground water will not be considered acceptable substitutes. Composition of the fluid must comply with all federal and local environmental regulations.

Drilling fluids must be mixed with potable water to ensure no contamination is introduced into the soil during the drilling, reaming or the pipe installation process. Disposal of drilling fluids shall be the responsibility of the CONTRACTOR and shall be conducted in compliance with all relative environmental regulations, right-of-way and workspace agreements and permit requirements.

Drilling fluid returns can be collected in the entrance pit, exit pit or spoils recovery pit. The Contractor shall immediately clean up any drilling fluid spills or overflows from these pits.

#### 33.3.6 Pulling Force

The CONTRACTOR shall record the tensile force being used to pull the pipe section into the reamed bore-hole. The maximum allowable pulling force on the section of pipe during installation shall be in accordance with ASTM F1804 and the manufacturer's recommendations. A complete log shall be furnished to the CITY, if requested, showing the tensile force used to pull the pipe section into the bore-hole.

#### 33.3.7 Maximum Pull Length

Pipe shall be installed in maximum five-hundred (500) linear foot pulls unless approved by the CITY. Pipe shall not be installed at less than the minimum depth of cover or clearances as shown on DRAWINGS or as specified. Elevation readings shall be recorded at every ten (10) linear feet of pipe installed and indicated on the RECORD DRAWINGS.

#### 33.3.8 Pilot Hole

The pipe shall be pulled through and installed in a previously excavated pilot hole. The pilot hole shall have been enlarged by using a reamer tool to the required size to accommodate the pipe. The enlargement of the pilot hole to ease installation, shall not allow the possibility of cavity formation or future settlement. The pullback tension on the pipe shall be continuously monitored during pullback, to prevent exceeding the maximum tension allowed, certified, or recommended by the pipe manufacturer.

Pipe shall be pulled in one continuous length without pause, to minimize sticking; when finished, adequate pipe shall protrude a minimum of two (2) feet beyond the bore hole limits. During pullback, the drill pipe shall be connected to the pipe using a pullhead or pulling eye and a swivel. The swivel shall be used to prevent rotational torque from spinning the pipe or conduit. The enlargement reamer shall be placed between the pullhead and the drill pipe or conduit, to ensure that the hole remains open and to allow more lubricating fluid (drilling fluid) to be pumped into the hole during the pullback.

The entrance pit and a pathway for the pipe to be pulled through shall have been cleared of debris that could cut or gouge the pipe. Pipe shall be placed on sufficiently sized rollers during the pull. A sufficient number of rollers shall be used to prevent sagging of the pipe. If the pipe is withdrawn from the borehole, it shall be re-inspected on all sides for gouges prior to being pulled through again.

#### 33.3.9 Annular Space Grouting

If an annular area remains at the ground surface between the pipe and the soil after installation of the pipe, the annular area shall be grouted with standard cement to a point where the ground cover over the borehole exceeds fifteen (15) feet. Up to eight percent (8%) gel can be mixed with the cement. All abandoned boreholes shall be grouted with standard cement from the surface opening of the borehole to a point where the ground cover over the borehole exceeds fifteen (15) feet.

#### 33.3.10 Pipe Location

The CONTRACTOR shall install a minimum of two (2) solid strands of ten (10) gauge copper wire manufactured for the intent of direct burial, separated by forty-five degrees (45°) on the pipe to facilitate the future locating of the pipe. Wire shall be attached to pipe by a method that insures it withstands the pulling forces generated during pipe installation.

#### 33.3.11 Water Crossings

At underwater crossings, the CONTRACTOR shall furnish and install a minimum twelve (12) inch by sixteen (16) inch weatherproof metal sign, approved by the CITY; at each end of the crossing that reads either "CAUTION---BURIED WASTEWATER FORCE MAIN", "CAUTION---BURIED WATER MAIN" or "CAUTION---BURIED RECLAIMED WATER MAIN" ----- CALL CITY OF APOPKA PUBLIC SERVICES (407) 703-1731.

#### 33.3.12 Testing of Pipe

##### PVC Pipe

Perform hydrostatic testing for leakage following installation in accordance with the applicable test sections.

##### HDPE Pipe

Pipe shall be installed and tested as per AWWA standards.

After installation the pipe shall be tested in accordance with Section 52 and 62 of this MANUAL, with the following modifications:

1. **Test Duration:** The total test time including initial pressurization, initial expansion and time at test pressure, must not exceed eight (8) hours. If the test is not completed due to leakage, equipment failure, etc., the test section shall be depressurized and allowed to “relax” for a minimum of 8 hours before it is brought back up to test pressure. The test procedure consists of initial expansion phase and leakage test phase.
2. **Initial Expansion Phase:** During the initial expansion phase, the test section is pressured to the test pressure, and enough make-up liquid is added each hour for three (3) hours to return to test pressure.
3. **Leakage Test Phase:** The leakage test phase follows immediately and shall be either two (2) or three (3) hours in duration. At the end of the time test, the test section shall be returned to test pressure by adding a measured amount of liquid. The amount of make-up liquid added shall not exceed the following values plus allowable leakage:

**Allowable Leakage Test Table**

Test Duration (hours)	Pipe Diameter (inches)							
	2	4	6	8	12	16	20	24
	Allowance / 100 feet of Pipeline (gallons)							
2	0.11	0.25	0.60	1.00	2.30	3.30	5.50	8.90
3	0.19	0.40	0.90	1.50	3.40	5.50	8.00	13.30

*\*Applies to test period and not initial expansion phase*

**33.3.13 Environmental Requirements**

1. The Horizontal Directional Drilling operation will be a closed system to eliminate the discharge of water, drilling mud and/or cuttings to nearby land areas involved in the construction process. The CONTRACTOR shall provide equipment and procedures to maximize the recirculation of drilling mud and to minimize waste. The CONTRACTOR shall provide solids control and fluid cleaning equipment of a configuration and capacity that can process surface returns and produce drilling fluid suitable for reuse.
2. Waste cuttings and drilling mud shall be de-watered and dried by the CONTRACTOR to the extent necessary for disposal in off-site landfills. Water from the de-watering process shall be treated by the CONTRACTOR to meet requirements and disposed of locally. The CONTRACTOR shall sample and test the cuttings and water for disposal daily.
3. “Blow holes” or “breakouts” of drilling fluid to the surface must be cleaned up immediately and the surface area washed and returned to original condition. All drilling fluids, spoils and separated material will

be disposed of in compliance of local environmental regulations. If the amount of surface returns exceeds that which can be contained and collected using small sumps, drilling operations shall be discontinued until surface return volumes can be brought under control. Equipment and materials for cleanup and contingencies must be provided by CONTRACTOR and stored at all sites.

4. Construction-related activities involving fuels and lubricants such as vehicle refueling and equipment maintenance, including the draining and pumping of lubricants shall be conducted at sufficient distance from the water channel to eliminate contamination in case of a spill. Any fuels or lubricants spilled shall be cleaned up immediately to the satisfaction of the CITY.
5. CONTRACTOR shall provide sanitary and garbage facilities on both sides of the roadway, and wastes shall be transported off-site for disposal.
6. Immediately upon completion of WORK, all rubbish and debris shall be removed from the job site. All construction equipment and implements of service shall be removed and the entire area involved shall be left in a neat, clean, and acceptable condition.

#### 33.3.14 Site Restoration / De-mobilization

The CONTRACTOR shall remove all equipment, material, and waste from entry and exit locations. The general WORK areas, the right-of-way and all other construction areas shall be graded to their original contours. The CONTRACTOR shall restore all areas disturbed during construction to their original or better condition.

END OF SECTION



## Section 34 – Boring and Jacking

### 34.1 General

The installation of a casing pipe by the method of boring and jacking shall be governed by these specifications. The overall scope of WORK shall include, but not be limited to, boring and jacking pits and equipment, sheeting, steel casing pipe, skid, steel straps, coatings, location signs, miscellaneous appurtenances to complete the entire WORK as shown on the DRAWINGS, and restoration. Applicable provisions of this MANUAL shall apply concurrently with these specifications. Boring and jacking operations shall be performed within the right-of-way and/or easements shown on the DRAWINGS and will require a CITY right-of-way permit.

### 34.2 Pipe Material

#### 34.2.1 Steel Casing

Steel casings shall conform to the requirements of ASTM Designation A139 (straight seam pipe only) Grade “B” with minimum yield strength of 35,000 psi. The casing pipes shall have the minimum nominal diameter and wall thickness as shown in table below.

**Casing Pipe Minimal Nominal Diameter and Wall Thickness Table**

Carrier Nominal Diameter (inches)	Casing Outside Diameter (inches)	Casing Wall Thickness (inches)
4	16	.250
6	18	.250
8	20	.250
10	24	.250
12	30	.312
16	30	.312
18	36	.375
20	36	.375
24	42	.500
30	48	.500
36	54	.500
42	60	.500
48	66	.625

Field and shop welds of the casing pipes shall conform to the American Welding Society (AWS) standard specifications. Field welds shall be complete penetration, single-bevel groove type joints. Welds shall be airtight and continuous over the entire circumference of the pipe and shall not increase the outside pipe diameter by more than 3/4-inch. All welds must conform with the AWS standard specifications. Field welds shall be complete penetration, single-bevel groove type joints. Welds shall be airtight and continuous over the entire circumference of the pipe and shall not increase the outside pipe diameter by more than 3/4-inch.

#### 34.2.2 Carrier Pipe

The carrier pipe for water or reclaimed water shall be minimum pressure class 250 ductile iron pipe with restrained joints. Ductile iron pipe shall comply with the specification outlined in this MANUAL.

The carrier pipe for a force main or gravity sewer main shall be PVC C-900 DR 18 or better with restrained joints.

#### 34.2.3 Inspection

All casing pipe to be installed may be inspected at the site of manufacture for compliance with these SPECIFICATIONS by an independent laboratory selected and paid for by the CITY. The manufacturer's cooperation shall be required in these inspections.

All casing pipe shall be subjected to a careful inspection prior to being installed. If the pipe fails to meet the specifications it shall be removed and replaced with a satisfactory replacement at no additional expense to the CITY.

### **34.3 Pipe Handling**

Care shall be taken in loading, transporting, and unloading to prevent injury to the pipe or coatings. Pipe shall not be dropped. All pipe shall be examined before installing, and no piece shall be installed which is found to be defective. Any damage to the pipe or coatings shall be repaired to the satisfaction of the CITY.

### **34.4 Construction**

#### 34.4.1 Work Coordination

It shall be the CONTRACTOR'S responsibility to perform the boring and jacking work in strict conformance with the requirements of the agency in whose right-of-way or easement the work is being performed.

Any special requirements of the agency such as insurance, flagmen, etc., shall be strictly adhered to during the performance of WORK. The special requirements shall be performed by the CONTRACTOR at no additional cost to the CITY.

#### 34.4.2 De-watering

De-watering through the casing during construction shall not be permitted. All de-watering methods shall be approved by the CITY before construction work begins.

#### 34.4.3 Carrier Pipe Support

Carrier pipes, inside of steel casing pipe, shall be supported by casing spacers at no more than ten (10) feet between spacers. Each spacer shall be twelve (12) inches wide and manufactured of a minimum 14-gauge Type 304 stainless steel. All nuts and bolts shall be corrosion resistant and compatible with the respective steel band. Each spacer shall have a minimum of four runner supports manufactured of a high molecular weight polymer plastic. The runner supports shall be of adequate height to position the carrier pipe in the center of casing with a minimum top clearance of 1/2-inch. All casing spacers larger than thirty-six (36) inch diameter (carrier pipe) shall be factory designed, taking in consideration the weight of the carrier pipe filled with water. All calculations and drawings shall be submitted to the CITY for review.

#### 34.4.4 HDPE Casing Spacers

Casing spacers shall fasten tightly onto the carrier pipe so that the spacers do not move during installation. Casing spacers will be spaced no more than 6-1/2 feet with double spacers on each end of the casing. The casing spacers will provide a minimum safety factor of two to one to support the service load. Spacers shall have a minimum height that clears the pipe bell. Casing spacers shall be projection type totally non-metallic spacers constructed of preformed sections of high-density polyethylene.

#### 34.4.5 Jacking Pits

Excavation adjacent to the roads shall be performed in a manner to adequately support the roads. Bracing, shoring, sheeting, or other supports shall be installed as needed. CONTRACTOR shall install suitable reaction blocks for the jacks as required. Jacking operations shall be continuous and precautions shall be taken to avoid interruptions which might cause the casing to "freeze" in place. Upon completion of jacking operations, the reaction blocks, braces, and all other associated construction materials shall be completely removed from the site. All excavation activities shall comply with the Florida Trench Safety Act.

#### 34.4.6 Casing End Seals

Casing end seals shall be used to completely close both openings on either side of the casing. These end seals shall be seamless pull on or wrap around with stainless steel straps for securing to the casing and carrier pipe. End seals shall be constructed of compounded synthetic rubber with a minimum thickness of 1/8-inch.

#### 34.4.7 Miscellaneous Requirements

Correct line and grade shall be carefully maintained. Earth within the casing shall not be removed too close to the cutting edge in order to prevent the formation of voids outside the casing. If voids are formed, they shall be satisfactorily filled with grout by pumping.

The sections of steel casing shall be field welded in accordance with the applicable portions of AWWA C206 and AWS D7.0 for field welded pipe joints. CONTRACTOR shall wire brush the welded joints and paint with Inertol Quick-Drying Primer 626 by Koppers Company or approved equal. After completion of jacking, CONTRACTOR shall clean the interior of the casing of all excess material.

END OF SECTION

## Section 35 – Pressure Pipe Restraint

### 35.1 General

Pressure pipe fittings and other items requiring restraint shall use restraining assemblies as specified in this Section.

PVC pipe and ductile iron pipe four (4) inches and larger, shall be restrained to prevent movement of lines under pressure at bends, tees, caps, valves, hydrants, etc., using mechanically restrained joints as specified in this manual.

Use of thrust blocks for pressure pipe and fittings shall not be allowed.

### 35.2 Restrained Joint Construction

Restrained joint piping shall be constructed using pipe and fittings with restrained "Locked-Type" joints compatible with the pipe. The joints shall be capable of holding against a minimum pressure of fifty percent (50%) above the normal working pressure. Mechanical joint ductile iron pipe retainer glands shall be permitted upon specific written consent by the DIRECTOR. Any restrained joints that allow for elongation upon pressurization will not be allowed in those locations where the pipe comes out of the ground.

Restrained pipe joints that achieve restraint by incorporating cut out sections in the wall of the pipe shall have a minimum wall thickness at the point of cut out that corresponds with the minimum specified wall thickness for the rest of the pipe.

The minimum number of restrained joints required for resisting forces at fittings and changes in direction of pipe shall be determined from the length of restrained pipe on each side of fittings and changes in direction necessary to develop adequate resisting friction with the soil.

The required lengths of restrained joint ductile iron pipe shall be determined by the ENGINEER and shown in a tabular form as depicted on the "Restrained Pipe Table" in the STANDARD DETAILS. All calculation shall be based on the method outlined in the publication entitled "Ductile Iron Pipe and Fittings" (AWWA M41), latest edition, published by American Water Works Association.

### 35.3 Mechanical Restraining Devices

#### 35.3.1 General

CITY approved mechanical restraining devices, which are compatible with the ductile iron pipe in use, may be substituted for the restrained "Locked-Type" joints. The number of joints to be restrained shall be based on the "Restrained Pipe Table" in the STANDARD DETAILS.

### 35.3.2 Joint Restraint Device

Mechanical joint restraint shall be incorporated in the design of the follower gland and shall include a restraining mechanism which, when actuated, imparts multiple wedging action against the pipe, increasing its resistance as the pressure increases. Flexibility of the joint shall be maintained after burial. Glands shall be manufactured of ductile iron conforming to ASTM A 536.

Restraining devices shall be of ductile iron heat treated to a minimum hardness of 370 BHN. Dimensions of the gland shall be such that it can be used with the standardized mechanical joint bell and tee-head bolts conforming to ANSI A21.11 and ANSI/AWWA C153/A21.53. Twist-off nuts shall be used to insure proper actuating of the restraining devices.

The mechanical joint restraint device shall have a working pressure of at least two-hundred-fifty (250) psi with a minimum safety factor of 2:1.

END OF SECTION

## Section 36 – Pressure Pipe Connection

### 36.1 General

Installations of pressure connections four (4) inches and larger shall be made in accordance with this Section.

### 36.2 Tapping Sleeves

#### 36.2.1 General

Tapping sleeves shall be epoxy coated ductile iron mechanical joint sleeves or fabricated stainless steel sleeves as specified below. All pressure connections to asbestos cement pipe and all "size-on-size" taps shall utilize mechanical joint sleeves.

#### 36.2.2 Mechanical Joint Sleeves

Sleeves shall be epoxy coated ductile iron and have an outlet flange with the dimensions of the class 125 flanges shown in ANSI B16.1 properly recessed for tapping valve. Glands shall be ductile iron. Gaskets shall be vulcanized natural or synthetic rubber. Bolts and nuts shall comply with ANSI/AWWA C111/A21.11. Sleeves shall be capable of withstanding a working pressure of two-hundred (200) psi for 4 x 4 through 12 x 12 inch; and one-hundred-fifty (150) psi for 14 x 14 through 24 x 24 inch.

#### 36.2.3 Stainless Steel Tapping Sleeves

Sleeves shall be fabricated of 18-8 Type 304 stainless steel. Outlet flange shall be ASTM A240 18-8 Type 304 stainless steel, be properly recessed for the tapping valve, and have a drop in bolt design. Bolts and nuts shall be high strength low alloy steel to AWWA C111 (ANSI A21.11). Gasket shall be vulcanized natural or synthetic rubber compounded for use in water and wastewater systems.

#### 36.2.4 Tapping Valves

Tapping valves shall meet the requirements of this MANUAL and shall be flanged with mechanical joint ends. Valves shall be compatible with tapping sleeves as specified above and specifically designed for pressure connection operations.

### 36.3 Notification and Connection to Existing Mains

All connections to existing mains shall be made by the CONTRACTOR only after the connection procedure and his work scheduling has been reviewed and

approved by the CITY. The CONTRACTOR shall submit a written request to the CITY a minimum of five (5) working days prior to scheduling of the connection, unless otherwise agreed upon at a CITY attended pre-construction conference. The request shall outline the following:

1. Points of Connection, fittings to be used, and method of flushing and disinfection if applicable.
2. Estimated construction time needed to make the connections.

The CITY shall review the submittal within three (3) working days after receiving it and inform the CONTRACTOR regarding approval or denial of the request. If the request is rejected by the CITY, the CONTRACTOR shall resubmit the request modifying it in a manner acceptable to the CITY.

All connections shall only be made on the agreed upon date and time. If the CONTRACTOR does not initiate and complete the connection work in the agreed upon manner, he shall be required to reschedule the connection by following the procedure outlined above.

The CONTRACTOR shall not operate any valves in the CITY systems.

## **36.4 Installation**

### **36.4.1 Excavation, Backfill Compaction and Grading**

The applicable provisions of this MANUAL shall apply.

### **36.4.2 Construction Details**

Sufficient length of main shall be exposed to allow for installation of the tapping sleeve and valve and the operation of the tapping machinery. The main shall be supported on concrete pedestals or bedding rock at sufficient intervals to properly carry its own weight, plus the weight of the tapping sleeve valve and machinery. Any damage to the main due to improper or insufficient supports shall be repaired at the CONTRACTOR'S expense.

The inside of the tapping sleeve and valve, the outside of the main, and the tapping machine shall be cleaned and swabbed or sprayed with ten percent (10%) liquid chlorine prior to beginning installation for water system pressure connections. After the tapping sleeve has been mounted on the main, the tapping valve shall be bolted to the outlet flange making a pressure tight connection. Prior to beginning the tapping operation, the sleeve and valve shall be pressure tested at one-hundred-fifty (150) psi to ensure that no leakage will occur.



For pressure connections through diameters twelve (12) inches or less, the minimum diameter cut shall be 1/2 inch less than the nominal diameter of the pipe to be attached. For fourteen (14) inch through twenty (20) inch installations, the minimum diameter shall be 1-1/2 inch or less; for larger taps the allowable minimum diameter shall be two (2) inches to three (3) inches less than the nominal diameter of the pipe being attached. After the tapping procedure is complete the CONTRACTOR shall submit the coupon to the CITY.

For pressure connections to wastewater force mains, the tapping valve shall be placed horizontally. After the tapping procedure is complete a plug valve shall be attached to the tapping valve. The tapping valve shall be left in the open position prior to backfilling.

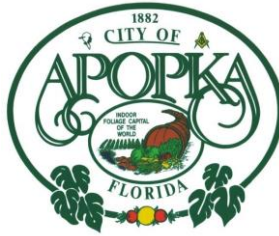
Adequate restrained joint fittings shall be provided to prevent movement of the installation when test pressure is applied. The excavation shall be maintained free of water at all times.

#### 36.4.3 Temporary Jumper Connection

A temporary jumper connection shall be provided by the CONTRACTOR as required by the Florida Department of Environmental Protection (FDEP) when connecting a new main to an existing potable water main. See STANDARD DETAILS.

END OF SECTION

**City of Apopka**  
**Utilities**  
**Design and Construction Standards Manual**



**Chapter 4**  
**Sanitary Sewer System**

<b>Section 40</b>	<b>Gravity</b>
<b>Section 41</b>	<b>Pipe Laying</b>
<b>Section 42</b>	<b>Manholes</b>
<b>Section 43</b>	<b>Sanitary Sewer Laterals</b>
<b>Section 44</b>	<b>Testing and Inspection</b>
<b>Section 45</b>	<b>Forcemains</b>
<b>Section 46</b>	<b>Wastewater Pump Stations</b>
<b>Section 47</b>	<b>Wastewater Pumps and Motors</b>
<b>Section 48</b>	<b>Pump Station Electrical Power and Control System</b>

## Section 40 - Gravity

### 40.1 General

Pipe used in the construction of sanitary sewer, gravity mains and laterals, shall be polyvinyl chloride (PVC) and green in color.

Where reference is made to an ASTM, ANSI, or AASHTO designation, it shall be the latest revision.

The CONTRACTOR shall be responsible for all materials furnished and storage of same, until the date of substantial completion. He shall replace at his expense all materials found to be defective or damaged in handling or storage. The CONTRACTOR shall, if requested by the CITY, furnish certificates, affidavits of compliance, test reports, or samples for check analysis for any of the materials specified herein. Sewer mains shall be cleaned, inspected, and tested in accordance with Section 44, of this MANUAL. All pipe delivered to project site for installation is subject to random testing for compliance with the designated SPECIFICATIONS.

### 40.2 Pipe Materials

#### 40.2.1 PVC Pipe

PVC gravity sewer pipe (4 inch - 15 inch), ASTM D3034, SDR 35 - Uniform minimum "pipe stiffness" at five percent (5%) deflection shall be forty-six (46) psi. The joints shall be integral bell elastomeric gasket joints manufactured in accordance with ASTM D3212 and ASTM F477. Applicable UNI-Bell Plastic Pipe Association standard is UNI-B-4.

PVC gravity sewer pipe (18 inch - 24 inch), ASTM F679, SDR 35 - Uniform Minimum "pipe stiffness" at five percent (5%) deflection shall be forty-six (46) psi. The joints shall be integral bell elastomeric gasket joints manufactured in accordance with ASTM D3212 and ASTM F477. Applicable UNI-Bell Plastic Pipe Association standard is UNI-B-7.

All PVC pipe shall bear the NSF-DW seal and be green in overall color. The minimum standard length of pipe shall be thirteen (13) feet.

#### 40.2.2 Ductile Iron Pipe

Ductile iron pipe is prohibited for sanitary sewer use unless prior written approval from the CITY is provided.

Ductile iron pipe shall conform to ANSI/AWWA A21.51/C151, class thickness designed per ANSI/AWWA A21.50/C150, with mechanical or push on joints. An interior protective lining of polyethylene shall be provided with a minimum thickness of 30 mils. Ductile iron gravity

sewers, where required by the CITY based on geotechnical investigations, shall be wrapped with polyethylene film, AWWA C105. See Appendix 'C'. The minimum standard length of pipe shall be eighteen (18) feet.

#### 40.2.3 Pipe Markings

All pipe shall have a homing mark on the spigot provided by the manufacturer. On field cut pipe, the CONTRACTOR shall provide a homing mark on the spigot in accordance with manufacturer recommendations.

### 40.3 **Joint Materials**

#### 40.3.1 PVC

PVC sewer pipe joints shall be flexible elastomeric seals per ASTM D 3212.

#### 40.3.2 Ductile Iron Pipe

Ductile iron pipe and fitting joints shall be "push-on" or mechanical joints conforming to ANSI A21.11.

#### 40.3.3 Joints for Dissimilar Pipe

Joints between pipes of different materials shall be made with a flexible mechanical compression coupling with No. 304 stainless steel bands. See approved manufacturer's list in Appendix "C".

### 40.4 **Fittings**

Unless otherwise specified, wye branches shall be provided in the gravity sewer main for service lateral connections. All material shall be six (6) inches in diameter, unless otherwise approved by the CITY. All fittings shall be of the same material as the pipe.

Plugs for stub outs shall be of the same material as the pipe, and gasketed with the same gasket material as the pipe joint, or be of material approved by the CITY. The plug shall be secured to withstand test pressures specified in Section 44 of this MANUAL.

### 40.5 **Inspection and Testing**

#### 40.5.1 Pipe Identification

Each length of pipe shall bear the name or trademark of the

manufacturer, the location of the manufacturing plant and the class or strength classification of the pipe. The markings shall be plainly visible on the pipe barrel. Pipe, which is not clearly marked, is subject to rejection. The CONTRACTOR shall remove all rejected pipe from the project site within five (5) NORMAL WORKING DAYS.

#### 40.5.2 Material Testing Requirements

1. If requested by the CITY, a sample of pipe to be tested shall be selected at random by the CITY or the testing laboratory hired by the CITY.
2. When the samples tested conform to applicable standards, all pipe represented by such samples shall be considered acceptable based on the test parameters measured. Copies of test reports shall be available before the pipe is installed on the project.
3. In the event that any of the test samples fail to meet the applicable standards, all pipe represented by such tests shall be subjected to rejection. The CONTRACTOR may furnish two additional test samples from the same shipment or delivery, for each sample that failed and the pipe will be considered acceptable if all of these additional samples meet the requirements of the applicable standards. All such retesting shall be at the CONTRACTOR'S expense.
4. Pipe that has been rejected by the CITY shall be removed from the site of the work by the CONTRACTOR and replaced with pipe that meets these specifications.

END OF SECTION

## **Section 41 – Pipe Laying**

### **41.1 Survey Line and Grade**

The CONTRACTOR shall set Temporary Bench Marks (TBM'S) at a maximum five-hundred (500) foot interval. The CONTRACTOR shall constantly check line and grade of the pipe by laser beam method. In the event line and grade do not meet specified limits described hereinafter, the WORK shall be immediately stopped, the CITY notified, and the cause remedied before proceeding with the WORK.

### **41.2 Pipe Preparation and Handling**

All pipe and fittings shall be inspected by the CONTRACTOR prior to lowering into trench to insure no cracked, broken, or otherwise defective materials are being used. The CONTRACTOR shall clean ends of pipe thoroughly and remove foreign matter and dirt from inside of pipe and keep clean during and after laying.

Proper implements, tools, and facilities shall be used for the safe and proper protection of the WORK. Pipe shall be lowered into the trench in such a manner as to avoid any physical damage to the pipe. Pipe shall not be dropped or dumped into trenches under any circumstances.

### **41.3 Sewer Pipe Laying**

Laying of sewer pipe shall be accomplished to line and grade in the trench only after it has been de-watered and the trench has been prepared in accordance with specifications outlined in this MANUAL. Refer to this Section of this MANUAL for additional bedding requirements. Mud, silt, gravel, and other foreign material shall be kept out of the pipe and off the jointing surface. All pipe laid shall be retained in position so as to maintain alignment and joint closure until sufficient backfill has been completed to adequately hold the pipe in place. All pipe shall be laid to conform to the line and grade shown on the PLANS.

Variance from established line and grade, at any point along the length of the pipe, shall not be greater than one thirty-second ( $1/32$ ) of an inch per inch of pipe diameter and not to exceed one-half ( $1/2$ ) inch, provided that any such variation does not result in a level or reverse sloping invert.

The sewer pipe, unless otherwise approved by the CITY, shall be laid up grade from point of connection on the existing sewer or from a designated starting point. The sewer pipe shall be installed with the bell end forward or upgrade. When pipe laying is not in progress the open end of the pipe shall be kept tightly closed with an approved temporary plug.

All PVC pipe shall be installed in accordance with the pipe manufacturer's written recommendations as approved by the CITY. Laying of ductile iron pipe shall conform to the specifications outlined in Section 51 of this MANUAL.

#### **41.4 Trench Preparation and Pipe Bedding**

##### **41.4.1 Trench Excavation, De-watering, Bedding Material, Backfill, Compaction, Fill and Grading**

Applicable provisions of Section 32, of this MANUAL shall apply. Also refer to STANDARD DETAILS.

##### **41.4.2 Placement of Pipe Bedding Material**

CONTRACTOR shall hand-grade bedding to proper grade ahead of pipe laying operation. Bedding shall provide a firm, unyielding support along the entire pipe length.

If without direction from the CITY, the trench has been excavated below the required depth for pipe bedding material placement, CONTRACTOR shall fill the excess depth with pipe bedding material to the proper grade.

CONTRACTOR shall excavate bell holes at each joint to permit proper assembly and inspection of the entire joint. No pipe shall bear upon the bell.

##### **41.4.3 Depth of Bedding Material**

CONTRACTOR shall provide pipe bedding material in accordance with the STANDARD DETAILS.

#### **41.5 Gravity Sewer Pipe and Water Main Separation**

Gravity sewers that are laid in the vicinity of pipe lines designated to carry potable water shall meet the conditions set forth in Section 51 of this MANUAL.

#### **41.6 Plugs and Connections**

Plugs for pipe branches, stubs, or other open ends which are not to be immediately connected shall be made of an approved material and shall be secured in place with a joint comparable to the main line joint.

#### **41.7 Pipe Jointing**

All pipe shall be installed to the homing mark on the spigot. The CITY shall be given an opportunity to check all joints in this manner before backfilling.

The Contractor shall give the City a minimum twenty-four (24) hours notification as to when pipe laying activity will take place.

Type of joint to be used will conform to the requirements of Section 40, of this MANUAL. All pipe and jointing for gravity sewers shall be subject to the tests specified in Section 44, of this MANUAL.

#### **41.8 Location and Identification**

All lettering shall appear legibly on the pipe and run the entire length and the color, "green", shall be correct for the intended use.

END OF SECTION



## Section 42 - Manholes

### 42.1 General

Manholes shall be leak-tight and constructed of concrete equipped with a liner material manufactured of either fiberglass reinforced polyester (FRP), high density polyethylene (HDPE) or polyvinyl chloride resin (PVC) when intersected by a force main or warranted by conditions. Manholes constructed entirely of FRP are also acceptable.

### 42.2 Pre-Cast Concrete Sections

#### 42.2.1 General

Pre-cast manholes shall conform to specifications for pre-cast reinforced concrete manhole sections, ASTM C478. FRP manholes shall conform to ASTM D3753. All manholes shall carry an AASHTO H-20 load rating.

#### 42.2.2 Miscellaneous Requirements

The minimum wall thickness shall be five (5) inches. Pre-cast manholes shall be constructed with a pre-cast monolithic base structure as shown on the STANDARD DETAILS. The minimum base thickness shall be eight (8) inches.

Concrete for manholes shall be Type II, 4000 psi at twenty-eight (28) days. Barrel, top, and base sections shall have tongue and groove joints. All jointing material shall be cold adhesive preformed plastic gaskets, conforming to FDOT Article 942-2. See Appendix "C" of this MANUAL.

The date of manufacture and the name or trademark of the manufacturer shall be clearly marked on each pre-cast section.

Sections shall be cured by an approved method for at least twenty-eight (28) days prior to applying protective coating and shall not be shipped until at least two (2) days after having been coated.

Pre-cast concrete top slabs shall be used where cover over the top of the pipe is less than four (4) feet. Lift rings or non-penetrating lift holes shall be provided for handling pre-cast manhole sections. Non-penetrating lift holes shall be filled with non-shrink grout after installation of the manhole sections.

Concrete surfaces shall have form oil, curing compounds, dust, dirt, and other interfering materials removed by brush or sand blasting and shall be fully cured prior to the application of any coatings.

Manhole pipe connections shall be KOR-N-SEAL boots, A-LOK. Manhole pipe connections shall meet ASTM C923.

#### 42.2.3 Inspection

The quality of all materials, the process of manufacture, and the finished sections shall be subject to inspection and approval by the CITY. Such inspection may be made at the place of manufacture or at the site after delivery, or at both places, and the sections shall be subject to rejection at any time on account of failure to meet any of the specification requirements, even though sample sections may have been accepted as satisfactory at the place of manufacture. Sections rejected after delivery to the job shall be marked for identification and shall be removed from the job at once. All sections which have been damaged after delivery will be rejected and, if already installed, removed and replaced, entirely at the CONTRACTOR'S expense.

At the time of inspection, the sections will be carefully examined for compliance with the specified ASTM designation and with the approved manufacturer's drawings. All sections shall be inspected for general appearance, dimension, "scratch-strength", blisters, cracks, roughness, soundness, etc. The surface shall be dense and close-textured.

### 42.3 **Pre-Cast Fiberglass Reinforced Sections**

#### 42.3.1 General

Pre-cast fiberglass reinforced manholes shall be a one piece unit consisting of a bottom with anti-flotation collar, barrel section, corbel or reducer section with a fiberglass neck that extends to the ring and cover.

The fiberglass manhole shall include all pipe connections and conform to specifications for Pre-cast Fiberglass Reinforced Manhole Sections, ASTM D-3753, or approved equal.

#### 42.3.2 Miscellaneous Requirements

The wall thickness shall be dependent on the depth of the manhole; the minimum shall not be less than three-eighths (3/8) inch. Pre-cast fiberglass reinforced manholes shall be constructed with a commercial grade unsaturated polyester resin or other suitable polyester or vinyl ester resin.

The reinforcing materials shall be a commercial grade "E" type glass in the form of a continuous roving and chop roving, having a coupling agent that will provide a suitable bond between the glass reinforcement and the resin.

For a UV inhibitor the resin on the exterior surface shall be coated at the factory with a gray pigment. This coating shall be added with a minimum thickness of one-eighth (1/8) inch.

The manufacturer's name, factory location, serial number and product length shall be clearly marked on the inside and outside of each pre-cast fiberglass section.

Manhole pipe connections shall be KOR-N-SEAL boots, A-LOK or approved equal. The pipe connections shall be factory installed using a PVC or fiberglass pipe stub-out as a sealing surface. Manhole pipe connections shall meet ASTM C923.

## **42.4 Polyvinyl Chloride (PVC) Manhole Liner**

### **42.4.1 General**

PVC liner shall be vacuum formed semi-rigid liner for use in wastewater. The liner plate and assembly shall be uninterrupted and free of defects, voids or pinholes in the vertical joints and walls of the structures.

### **42.4.2 Miscellaneous Requirements**

1. The liner panels shall have a minimum wall thickness of one-sixteenth (1/16) inch. A combination of standing ribs and mechanical dovetails shall be used to secure the liner panels to the wall of the structure and shall be spaced a maximum of six (6) inches apart.
2. Liner with locking extensions shall be able to withstand a test pull of one-hundred (100) pounds per linear inch applied perpendicular to the concrete surface for a period of sixty (60) seconds.
3. Liner panels shall be formed to the correct radius to assure a true diameter match between joined pre-cast sections when assembled.
4. Liner panels shall be formed with a continuous PVC return into the joint for a minimum of half (1/2) inch.
5. Panel sections shall be custom formed to a specific height not to exceed eight (8) feet ± three-quarters (3/4) inch in overall length.
6. Field installation of all lined pre-cast sections shall be done in accordance with the manufacturer's recommendations.

7. Pipe penetrations through the lined wall shall be protected by applying one-eighth (1/8) inch of cement corrosion resistant material to the unlined exposed areas within the openings and shall overlap the liner with a minimum of one-and-a-half (1-1/2) inches.
8. Corrosion protection between the lined concrete and the ring and cover shall be accomplished through the use of either a telescoping PVC connector or a one piece liner cover manufactured with a semi rigid PVC.

## **42.5 High Density Polyethylene (HDPE) Manhole Liner**

### **42.5.1 General**

HDPE liner shall be manufactured of high density polyethylene with a minimum thickness of two (2) mm.

### **42.5.2 Miscellaneous Requirements**

1. All HDPE liner sheets shall be extruded with anchoring studs manufactured during the extension process in one piece with the sheet so there is no welding or mechanical finishing work to attach the stud to the sheet. The liner shall have a minimum pull out of one-hundred-twelve-and-a-half (112-1/2) lbs. /anchoring stud. Minimum distance between studs shall be less than two-and-quarter (2-1/4) inches. Stud height shall be no less than nine-sixteenths (9/16) inch.
2. Flat liner sheet, non-anchored, used for overlapping joints, shall have a minimum thickness of three (3) mm. All joints shall be sealed by means of thermal welding.
3. HDPE grade rings shall be used for HDPE lined manholes. Butyl sealant shall be used between each ring. The first grade ring shall be welded to the liner.
4. All welding shall be performed in accordance with the manufacturer's procedures. Welders shall be certified by the manufacturer.

The following welding techniques are acceptable:

- A. Extrusion Welding: Used to seal all seams inside structure.
- B. Butt Welding: Used to fuse flat sheets together to form a one piece table.
- C. Hot Air Welding: Used as a tack weld or only in triple pass method where extrusion welding is not possible.

## 42.6 Castings

Gray iron castings for manhole frames, covers, adjustment rings, and other items shall conform to the ASTM Designation A 48, Class 30. Castings shall be true to pattern in form and dimensions and free of pouring faults and other defects which would impair their strength or otherwise make them unfit for the service intended. The seating surfaces between frames and covers shall be machined to fit true. No plugging or filling will be allowed.

Lifting or "pick" holes shall be provided, but shall not penetrate the cover. Casting patterns shall conform to those shown or indicated on the STANDARD DETAILS. All manhole frames and covers shall be traffic bearing to meet AASHTO H-20 loadings. Frames shall be suitable for the future addition of a cast iron ring for upward adjustment of top elevation. In certain locations, such as in flood prone areas, bolt down covers and gasketed covers shall be located as shown on the DRAWINGS.

## 42.7 Construction

### 42.7.1 Bedding

Base sections shall be placed on bedding rock conforming to the requirements in Section 32. The bedding rock shall be firmly tamped, made smooth and level to assure uniform contact and support of the pre-cast element. Refer to Section 32, of this MANUAL, for density requirements. Refer to the STANDARD DETAILS for additional bedding details.

### 42.7.2 Cast-In-Place Bases

Cast in place bases shall be utilized only when specifically approved by the CITY. Unless otherwise specified, cast-in-place bases shall be at least eight (8) inches in thickness and shall extend at least six (6) inches radially outside of the outside dimension of the manholes section. Reinforcement and connection to the riser sections shall be designed by the DEVELOPER'S ENGINEER and submitted to the CITY for approval.

### 42.7.3 Pre-cast Manholes

A pre-cast base section shall be carefully placed on the prepared bedding so as to be fully and uniformly supported in true alignment and to insure that all entering pipes can be inserted on proper grade.

Pre-cast manhole sections shall be handled by lift rings or non-penetrating lift holes. Such holes shall be filled with non-shrink grout after installation of the manhole. The first pre-cast section shall be placed and carefully adjusted to true grade and alignment.

All inlet pipes shall be properly installed so as to form an integral watertight unit. The sections shall be uniformly supported by the base structure and shall not bear directly on any of the pipes. Pre-cast sections shall be placed and aligned to provide vertical alignment with a quarter (1/4) inch maximum tolerance per five (5) feet of depth. The completed manhole shall be rigid, true to dimensions, and watertight.

#### 42.7.4 Excavation and Backfilling

Requirements of Section 32, of this MANUAL shall apply.

#### 42.7.5 Placing Castings

Casting shall be fully bedded in mortar with adjustment brick courses placed between the frame and manhole. Brick courses shall be a minimum of two (2) and a maximum of four (4). Mortar shall conform to ASTM C-270, Type M. Bricks shall be made of clay and conform to ASTM C-216, grade SW, and sized 3 1/2 inches (w) x 8 inches (l) x 2 1/4 inches (h).

Top of manhole castings located in pavement, shouldered areas, and sidewalks shall be set flush with grade. Top of manhole castings located outside these areas shall be placed two (2) inches above grade prior to sodding.

#### 42.7.6 Channels

Manhole flow channels shall be as shown in the STANDARD DETAILS, with smooth and carefully shaped bottoms, built up sides, and benching constructed using cement mortar and brick with no voids. Channels shall conform to the dimension of the adjacent pipe and provide changes in size, grade, and alignment evenly. Cement shall be Portland Cement Type II only.

#### 42.7.7 Pipe Connections

Special care shall be taken to assure that the openings through which pipes enter the structure are provided with watertight connections. For ductile iron and PVC pipe, connections shall conform to ASTM C 923, "Standard Specifications for Resilient Connectors Between Reinforced Concrete Manhole Structures and Pipes."

#### 42.7.8 Drop Manhole Connections

Drop manhole connections shall conform in all respects to details shown on the STANDARD DETAILS or DRAWINGS. Internal drop manhole connections shall not be permitted, except in extreme cases and only with the specific written approval of the DIRECTOR.

#### 42.7.9 Doghouse Manholes

Doghouse type manholes shall be manufactured in accordance with Section 42, of this MANUAL. Voids between the existing pipe and the structure shall be completely sealed by non-shrink cement grout.

#### 42.8 **Cleaning**

All newly constructed manholes shall be cleaned of any accumulation of silt, debris, or foreign matter of any kind, and shall be free from such accumulations at the time of final inspection.

#### 42.9 **Inspection**

No visible leakage in the manhole or at pipe connections will be permitted. All manholes shall be inspected by the CITY prior to acceptance. All manholes failing to meet the specification set forth in Section 42 of this MANUAL above shall be reconstructed or replaced by the CONTRACTOR to comply with these specifications. Pressure grouting of manholes for repair shall not be accepted.

END OF SECTION

## Section 43 – Sanitary Sewer Laterals

### 43.1 General

The sanitary sewer lateral is a branch gravity sewer constructed from the main gravity sewer to the right-of-way line or to a point established by the CITY. The building service runs from the right-of-way clean-out to the building.

The general requirements for construction of gravity sewers in Section 40 and 41, of this MANUAL shall apply to laterals unless they are inconsistent with the provisions of this Section. Laterals shall be less than fifty (50) feet in length and connect to the system along pipe sections, not at manholes, unless otherwise specifically approved by the CITY.

Laterals and fittings shall be a minimum of six (6) inches for all installations. Services and fittings shall be a minimum of four (4) inches in diameter for residential and six (6) inches in diameter for non-residential installations.

### 43.2 Materials

Pipe, fittings, and joints shall be PVC pipe and shall conform to the requirement for gravity sewer construction in Section 40, of this MANUAL.

Laterals shall be connected to the wye, provided in the gravity sewer where such is available, utilizing approved fittings or adapters.

On existing mains where no wye is provided or available, connection shall be made by a suitable saddle, or a cast-in-place manhole as referenced in Section 20, of this MANUAL.

### 43.3 Construction

#### 43.3.1 General

Service and lateral connections shall conform to these specifications and STANDARD DETAILS. All necessary approvals for service and lateral construction shall be obtained prior to beginning the work.

#### 43.3.2 Excavation and Backfill

Excavation and backfilling for services and laterals shall conform to the requirements of Section 32 and 41 of this MANUAL, except that no backfill in excess of that required to hold the pipe in true alignment shall be placed prior to inspection.



#### 43.3.3 Pipe Laying and Jointing

Pipe laying and jointing, except as hereinafter provided, shall in general conform to the requirements of Section 41, of this MANUAL. During the pipe laying and jointing, the services and laterals shall be kept free of any water, dirt, or objectionable matter.

#### 43.3.4 Line and Grade

Laterals shall be laid with a minimum grade of one (1) foot per one-hundred (100) feet. The CONTRACTOR shall establish such alignment and grade control as is necessary to properly install the lateral. Pipe shall be laid in a straight line at a uniform grade between fittings.

### 43.4 **Termination of Service Laterals**

Laterals shall terminate just outside the right-of-way line at a maximum depth of five (5) feet below finish grade. Watertight factory made plug(s) shall be installed at the end of each lateral and service branch.

Clean-outs on the building service branch shall be installed at the time of building construction by the individual site's CONTRACTOR in accordance with the STANDARD DETAILS.

### 43.5 **Inspection**

Laterals shall meet the inspection requirements specified in Section 40, of this MANUAL.

### 43.6 **Restoration, Finishing and Clean-up**

The CONTRACTOR shall restore all paved surfaces, curbing, sidewalks, or other surfaces to their original condition in such manner as to meet the requirements established in this MANUAL. All surplus material and temporary structures, as well as all excess excavation shall be removed. The entire site shall be left in a neat and clean condition.

### 43.7 **Location**

The exact location of the termination point of each installed service shall be marked by etching or cutting an "S" in the concrete curb and painting that location green. Where no curb exists, locations shall be adequately marked by a method approved by the CITY.

END OF SECTION

## Section 44 – Testing and Inspection

### 44.1 General

Gravity sewer systems shall be tested for alignment, deflection, and integrity prior to acceptance by the CITY. All testing, procedures, and video inspections shall be performed by the CONTRACTOR in the presence of CITY inspection personnel and certified by the DEVELOPER'S ENGINEER. The CONTRACTOR shall be responsible for furnishing all necessary labor and equipment for all such testing and inspections.

### 44.2 Testing

#### 44.2.1 Type of Test

Gravity sewer systems shall be required to pass one of the following leakage tests and a lamping procedure before acceptance by the CITY.

##### 1. Low-Pressure Air Leakage Test

Testing shall be conducted in accordance with the procedure for "Recommended Practice For Low Pressure Air Testing of Installed Sewer Pipe" as established by the Uni-Bell PVC Pipe Association. Passing this test shall be presumed to establish leakage test limits of fifty (50) gallons per day, per inch, of diameter, per mile of sewer.

##### 2. Infiltration and Exfiltration Leakage Test

Flows shall not exceed one-hundred-fifty (150) gallons per day, per inch, of nominal pipe diameter per mile, as measured between adjacent manholes over a two (2) hour testing period.

When the lamping procedure is performed, each test section of pipe with a full circle showing shall be considered to be acceptable to the CITY.

#### 44.2.2 Selection of Test Sections

Each test section shall not exceed four-hundred (400) feet in length and be conducted between adjacent manholes.

#### 44.2.3 Preparation and Coordination of Testing

The CONTRACTOR shall flush all sewers with water sufficient in volume to obtain free flow through each line. Flushing water and debris shall not enter any pump station wet well. Water will be pumped from the sewer system during flushing to an acceptable discharge location. A visual inspection shall be made and all obstructions removed.

The CONTRACTOR shall notify the CITY forty-eight (48) hours prior to performing any leakage testing.

The results of all leakage tests shall be neat, legible, and certified by the DEVELOPER'S ENGINEER when presented to the CITY. The results shall be formatted and adequately labeled so that they are easily understandable.

### 44.3 Video Inspection

An internal video inspection for all gravity sewers shall be performed by the CONTRACTOR to check for alignment and deflection. Video inspection shall be used to check for cracked, broken, or otherwise defective pipe.

The CONTRACTOR shall provide the CITY with a copy of the video inspection for staff review in a format acceptable to the CITY. The CITY shall respond back to the CONTRACTOR within five (5) working days after the receipt of acceptable tapes.

Prior to video inspection, the CONTRACTOR shall flush all sewers with water sufficient in volume to obtain free flow through each line. Flushing water and debris shall not enter any pump station wet well. Water will be pumped from the sewer system during flushing to an acceptable discharge location. A visual inspection shall be made and all obstructions removed.

If elected by the CONTRACTOR or when required by the CITY, the video inspection shall be conducted within thirty (30) days after substantial completion of the gravity sewer system, provided the road base is in place and the manhole rings and covers are to grade.

The requirement of the road base being in place shall be waived if the top of the sewer is twelve (12) feet below the finished grade. In such cases, the video inspection shall be performed once the trench has been compacted up to the road base.

A final inspection of the gravity sewer system shall be conducted by the CITY prior to the end of the one (1) year warranty period.

If any inspection reveals cracked, broken, defective, or misaligned pipe resulting in vertical sags in excess of one-and-a-half (1-1/2) inches and in the case of PVC pipe a ring deflection in excess of five (5) percent, the CONTRACTOR shall be required to repair or replace the pipeline. The CITY reserves the right to pass a mandrel through the PVC pipe to confirm ring deflection. The cost associated with passing a mandrel through the PVC pipe shall be the responsibility of the CONTRACTOR.

Successful passage of the lamping procedure and leakage tests, or the video inspection if used as a substitute, is required before the system can be accepted by the CITY.

Prior to repair or replacement of any failed sewer pipe, the method of repair or replacement shall be submitted to the CITY for approval. Pressure grouting of pipe or manholes shall not be considered as an acceptable method of repair.

END OF SECTION

## Section 45 – Force mains

### 45.1 General

These specifications cover the pipe, fittings, and accessory items used for wastewater force main systems.

Pipe used in wastewater force main systems shall be either Polyvinyl Chloride (PVC) or High Density Polyethylene (HDPE).

The CONTRACTOR shall be responsible for all materials furnished and storage of same, until the date of project completion. He shall replace at his expense all materials found to be defective or damaged in handling or storage. The CONTRACTOR shall, if requested by the CITY, furnish certificates, affidavits of compliance, test reports, or samples for check analysis for any of the materials specified herein. All pipe delivered to the project site for installation is subject to random testing for compliance with the designated specifications.

### 45.2 Inspection and Testing

Requirements specified in Section 40, of this MANUAL shall apply.

### 45.3 Polyvinyl Chloride (PVC) Pipe and Fittings

#### 45.3.1 PVC Pipe

PVC pipe of nominal diameter four (4) inches through twelve (12) inches shall be manufactured in accordance with AWWA Standard C900. Pipe of nominal diameter fourteen (14) inches and larger shall be manufactured in accordance with AWWA Standard C905. The PVC pipe shall have a minimum working pressure rating of one-hundred (100) psi or higher and a dimension ratio (DR) of eighteen (18), or twenty-five (25) as based on the system's design requirements. The pipe shall be green in color.

#### 45.3.2 Joints

PVC pipe shall have integral bell push on type joints conforming to ASTM D3139.

#### 45.3.3 Fittings

Fittings shall be restrained mechanical joint ductile iron or gray iron conforming to ANSI/AWWA A21.10/C110, three-hundred-fifty (350) psi minimum pressure rating for sizes 24 inches and smaller and two-hundred-fifty (250) psi minimum pressure rating for sizes larger than 24 inches, or ductile iron compact fittings in accordance with ANSI/AWWA

A21.53/C153. Interior and exterior coatings of ductile iron pipe fittings shall be as specified in Appendix 'C', of this MANUAL.

## **45.4 Ductile Iron Pipe and Fittings**

### **45.4.1 Ductile Iron Pipe**

Ductile iron pipe is prohibited unless prior written approval from the DIRECTOR is provided. Ductile iron pipe shall conform to ANSI/AWWA C151/A21.51 and have a minimum two-hundred-fifty (250) psi pressure class rating. All ductile iron pipe shall have an interior protective lining polyethylene with a minimum dry thickness of thirty (30) mils applied by the pipe manufacturer. Polyethylene lining material shall comply with ASTM D-1248 and shall be fused to the interior of the pipe by heat forming a tightly bonded lining.

### **45.4.2 Fittings**

Fittings shall be ductile iron compact fittings in accordance with ANSI/AWWA A21.53/C153 and have a minimum three-hundred-fifty (350) psi minimum pressure rating for sizes 24 inches and smaller and two-hundred-fifty (250) psi minimum pressure rating for sizes larger than 24 inches. All ductile iron fittings shall have an interior protective lining polyethylene with a minimum dry thickness of thirty (30) mils applied by the pipe manufacturer. Polyethylene lining material shall comply with ASTM D-1248 and shall be fused to the interior of the pipe by heat forming a tightly bonded lining.

### **45.4.3 Joints**

Joints for ductile iron pipe and fittings shall be push-on or mechanical joints conforming to ANSI/AWWA A21.11/C111, unless otherwise called for on the DRAWINGS. Where called for on the DRAWINGS, restrained or flanged joints shall be provided. Flanged joints shall conform to ANSI Standard B16.1-125 LB. Restrained joints shall conform to Section 35, of this MANUAL.

### **45.4.4 Coatings and Linings**

Where ductile iron pipe and fittings are to be above ground, pipe, fittings, and valves shall be thoroughly cleaned and given one field coat (minimum 1.5 mils dry thickness) of rust inhibitor primer. Intermediate and finished field coats of oil based paint shall also be applied by the CONTRACTOR (minimum 1.5 mils dry thickness each coat). Primer and field coats shall be compatible and shall be applied in accordance with the manufacturer's recommendations. See approved manufacturers' list

in Appendix 'C' of this MANUAL. Final field coat color shall be green.

All ductile iron pipe and fittings shall have an interior protective lining polyethylene with a minimum dry thickness of thirty (30) mils applied by the pipe manufacturer. Polyethylene lining material shall comply with ASTM D-1248 and shall be fused to the interior of the pipe by heat forming a tightly bonded lining. See approved manufacturers' list in Appendix 'C' of this MANUAL.

#### 45.4.5 Polyethylene Encasement

The pipe shall be polyethylene encased (8 mil) where shown on the DRAWINGS or required by the CITY in accordance with ANSI/AWWA A21.51/C105.

### 45.5 **High Density Polyethylene (HDPE) Pipe and Fittings**

#### 45.5.1 HDPE Pipe

Materials used for the manufacture of high-density polyethylene pipe and fittings shall comply with all requirements of ASTM D1248 and Plastic Pipe Institute (PPI) designation PE3408. Manufacturer shall be a member in good standing of the Plastic Pipe Institute. HDPE pipe and fittings shall comply or exceed AWWA Standards C901/C906, ASTM D2513, ASTM D3035 and ASTM F714. The manufacturer shall supply a letter of certification stating compliance to all the above standards prior to shipping any material to project site. The HDPE material shall have required ultraviolet inhibitors to resist degradation by direct and prolonged sunlight. The design of HDPE materials shall be based on the hydrostatic design basis (HDB) of 1,600 psi at 73.4 degrees Fahrenheit. Pipe shall be designed and produced to ductile iron diameters and to a maximum dimension ratio (DR) of seventeen (17).

#### 45.5.2 Fittings

Fittings shall be HDPE molded and shall be made, at a minimum, to the same pressure rating as the pipe. All fabricated HDPE fittings shall be manufactured to a maximum thickness of DR 13.5. Ductile iron pipe fittings, with mechanical joint adapters, may be used when required for special connections but must be supplied by a pre-approved manufacturer. Manufacturers of the electrofusion coupling and fittings shall be an ISO 9001 certified company with product having Canada Standards Association (CSA) certification.

Additional requirements specified in Section 33, of this MANUAL shall apply.

## 45.6 Joints of Dissimilar Pipe

The joining of dissimilar sanitary sewer pipe shall conform to the following table:

**Joints for Dissimilar Pipe Table**

Type of Line	Material	Material	Use
Gravity	C900	SDR-35	PVC Adapter
Force Main	PVC	Ductile Iron	Poly Lined and Restrained MJ Sleeve
Force Main	PVC	HDPE	Poly Lined and Restrained MJ Sleeve to Fused HDPE Adapter
Force Main	Ductile Iron	HDPE	Poly Lined and Restrained MJ Sleeve to Fused HDPE Adapter

## 45.7 Pipe Handling

All types of pipe shall be handled in such manner as will prevent damage to the pipe or coating. Accidental damage to pipe or coating shall be repaired to the satisfaction of the CITY or be removed from the job. When not being handled, the pipe shall be supported on timber cradles or on properly prepared ground, graded to eliminate all rock points and to provide uniform support along the full length. When being transported, the pipe shall be supported at all times in a manner which will not permit distortion or damage to the lining or coating. Any unit of pipe that is damaged beyond repair by the CONTRACTOR, in the judgment of the CITY, shall be removed from the work site and replaced with another unit.

Joint gaskets shall be stored in a clean, dark, and dry location until immediately before use.

Dirt or other foreign material shall be prevented from entering the pipe or pipe joint during handling or laying operations. Any pipe or fitting that has been installed with dirt or foreign material in it shall be removed, cleaned, and re-laid. At times when pipe laying is not in progress, the open ends of the pipe shall be closed by a water-tight plug or by other means approved by the CITY to ensure absolute cleanliness inside the pipe.

## 45.8 Air and Vacuum Release Valves

### 45.8.1 General

Wastewater force mains shall be equipped with either air or air/vacuum release valves located as shown on the DRAWINGS. Valves shall be located in an enclosure as detailed on the STANDARD DETAILS.

#### 45.8.2 Wastewater Air/Vacuum Valve

The valve shall be suitable for one-hundred-fifty (150) psi working pressure. Valve shall have standard two (2) inch NPT inlets and outlet ports unless otherwise shown on the DRAWINGS. Provisions shall be made for back-flushing the valve with clean water.

#### 45.8.3 Wastewater Air Release Valve

The inlet opening shall be standard two (2) inch NPT screwed connection, unless otherwise shown on the DRAWINGS. The valve shall include a flush-out feature for periodic cleaning of the internal mechanism. The overall height of the valve body shall not exceed twenty-one (21) inches, unless otherwise shown on the DRAWINGS.

### **45.9 Notification and Connection to Existing Mains**

All connections to existing mains shall be made by the CONTRACTOR only after the connection procedure and his work scheduling has been reviewed and approved by the CITY. The CONTRACTOR shall submit a written request to the CITY a minimum of five (5) working days prior to scheduling of the connection, unless otherwise agreed upon at a CITY attended pre-construction conference. The request shall outline the following:

1. Points of Connection, fittings to be used, and method of flushing and disinfection if applicable.
2. Estimated construction time needed to make the connections.

The CITY shall review the submittal within three (3) working days after receiving it and inform the CONTRACTOR regarding approval or denial of the request. If the request is rejected by the CITY, the CONTRACTOR shall resubmit the request modifying it in a manner acceptable to the CITY.

All connections shall only be made on the agreed upon date and time. If the CONTRACTOR does not initiate and complete the connection work in the agreed upon manner, he shall be required to reschedule the connection by following the procedure outlined above.

The CONTRACTOR shall not operate any valves in the CITY systems.



## 45.10 Plug Valves

### 45.10.1 General

All plug valves shall be installed so that the direction of flow through the valve is in accordance with the manufacturer's recommendations.

### 45.10.2 Valve Construction

Valves shall be of the non-lubricated eccentric type with resilient faced plugs and shall be furnished with end connections as shown on the plans, unless otherwise approved by the DIRECTOR. Flanged valves shall be faced and drilled to the ANSI 125/150 lb. standard. Mechanical joint ends shall meet AWWA C111, Class B.

Valve bodies shall be of ASTM A126, Class B Semi-steel, 31,000 psi tensile strength minimum in compliance with AWWA C507 and C504. All exposed nuts, bolts, springs, washers, etc. shall be zinc or cadmium plated. Resilient plug facings shall be of Hycar or Neoprene.

Port areas for valves four (4) inches through twenty (20) inches shall be eighty percent (80%) nominal pipe diameter. Valves twenty-four (24) inches and larger shall have a minimum port area of seventy percent (70%) of nominal pipe diameter. All exposed nuts, bolts, springs, washers, etc., shall be zinc or cadmium plated. Resilient plug facings shall be of Hycar or Neoprene.

Valves shall be furnished with permanently lubricated stainless steel or oil-impregnated bronze upper and lower plug stem bushings. These bearings shall comply with AWWA C507 and C504.

Seats in four (4) inches and larger valves shall have a welded-in overlay of high nickel content on all surfaces contacting the plug face which comply with AWWA C507 and C504.

Valve shaft seals shall be adjustable and comply with AWWA C507.

### 45.10.3 Valve Testing

Plug valves shall be tested in accordance with AWWA C504. Each valve shall meet the performance, leakage, and hydrostatic tests described in AWWA C504. The leakage test shall be applied to the face of the plug tending to unseat the valve. The manufacturer shall furnish certified copies of reports covering proof of design testing as described in AWWA C504.

### 45.10.4 Actuators

Manual valves shall have lever or gear actuators, tee wrenches, extension stems, floor-stands, etc. as indicated on the plans. All valves six (6) inch and larger shall be equipped with gear actuators. All gearing shall be enclosed in a semi-steel housing and be suitable for running in a lubricant with seals provided on all shafts to prevent entry of dirt and water into the actuator.

All actuator shafts shall be supported on permanently lubricated bronze bearings. Actuators shall clearly indicate valve position and an adjustable stop shall be provided to set closing torque. All exposed nuts, bolts, and washers shall be zinc or cadmium plated. Valve packing adjustment shall be accessible without disassembly of the actuator.

#### **45.11 Valve Boxes**

Mains less than six (6) feet in depth shall have cast-iron three-piece valve boxes. Valve boxes shall be provided with suitable heavy bonnets and shall extend to such elevation at or slightly above the finished grade surface as directed by the CITY. The barrel shall be screw type only, having five-and-a-quarter (5-1/4) inch shaft. The upper section shall have a flange at the bottom having sufficient bearing area to prevent settling and shall be complete with cast-iron covers. Covers shall have "SEWER" cast into the top for all wastewater mains.

An operating nut extension box shall be used for mains with an operating nut six (6) feet below finished grade. Valve boxes shall be one complete assembled unit composed of the valve box and extension stem. All moving parts of the extension stem shall be enclosed in a housing to prevent contact with the soil. Valve box assembly shall be adjustable to accommodate variable trench depths six (6) foot and greater.

The stem assembly shall be of a telescoping design that allows for variable adjustment length. The material shall be galvanized square steel tubing. The stem assembly shall have a built-in device that prevents the stem assembly from disengaging at its fully extended length. The extension stem must be capable of surviving a torque test to one-thousand (1000) ft-lb without failure.

Each valve collar shall utilize a test station box made into the valve collar for placement of locating wire as shown in the DRAWINGS.

#### **45.12 Separation of Force Mains and Water Mains**

##### **45.12.1 General**

The table below meets separation requirements as described by FDEP in the Florida Administrative Code. These requirements shall apply between newly proposed utility lines and existing or proposed utility

lines.

All separation distances are from outside-of-pipe to outside-of-pipe.

PROPOSED UTILITY	HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS									
	POTABLE WATER		RECLAIMED WATER*		SANITARY SEWER FORCE MAIN		SANITARY SEWER GRAVITY MAIN		STORM SEWER	
	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.
POTABLE WATER	-	-	3'	12"	6'	12"	6'	6" ABOVE 12" BELOW	3'	6"
RECLAIMED* WATER	3'	12"	-	-	3'	12"	3'	12"	-	-
SANITARY SEWER FORCE MAIN	6'	12"	3'	12"	-	-	-	-	-	-
SANITARY SEWER GRAVITY MAIN	6'	6" ABOVE 12" BELOW	3'	12"	-	-	-	-	-	-

45.12.2 Horizontal Variances Sanitary Sewer

Any horizontal variance shall require the prior approval of the CITY.

If horizontal separation is not attainable for new installations of potable water and sanitary sewer, the pipes will be installed in separate trenches. The bottom of the potable water main shall be at a minimum twelve (12) inches higher than the top of the sanitary sewer while still maintaining the required cover. This type of case shall require the sanitary sewer main, whether gravity or force main, to be upgraded to DR eighteen (18).

45.12.3 Vertical Variances Sanitary Sewer

Any vertical variance shall require the prior approval of the CITY.

Where installation of a new potable water main is in conflict with existing sanitary sewer it is preferred that the water main cross twelve (12) inches above the sanitary sewer with sufficient coverage. If this is not possible the water main may cross twelve (12) inches below the sanitary sewer and shall be upgraded to ductile iron pipe and centered at crossing.

45.12.4 Structures

No water main or service shall pass through or come in contact with any part of a sanitary sewer or storm water manhole or structure.

**45.13 Force Main Construction**

Requirements specified in Section 51, of this MANUAL shall apply.

#### **45.14 Hydrostatic Tests**

Requirements specified in Section 52, of this MANUAL shall apply with the exception that the test pressure shall be one-hundred (100) psi.

#### **45.15 Final Cleaning**

Prior to final inspection and acceptance of the force main by the CITY, CONTRACTOR shall flush and clean all parts of the system. Flushing and cleaning shall include the removal of all accumulated construction debris, rocks, gravel, sand, silt, and other foreign material from the sewer system at or near the downstream end.

Upon the CITY'S final inspection of the pressure pipe systems, if any foreign matter is still present in the system, CONTRACTOR shall clean the sections and portions of the lines as required.

#### **45.16 Location and Identification**

All manufactures lettering shall be legible and the colors correct for the intended use.

END OF SECTION

## Section 46 – Wastewater Pump Stations

### 46.1 General

This Section includes the specifications for equipment, materials, site work, fences, and appurtenances for the installation of wastewater pump stations, submersible.

### 46.2 Wet Well Liners

#### 46.2.1 Fiberglass Liner

Fiberglass reinforced polyester wet well liner shall be manufactured from commercial grade polyester resin or vinyl ester resin with fiberglass reinforcements. The resin system shall be suitable for atmospheres containing hydrogen sulfide and dilute sulfuric acid, as well as other gases associated with the wastewater collection systems. The wet well liner shall be a one-piece unit manufactured in accordance with the requirements of ASTM D3753. All inserts and sleeves for piping shall be in accordance with the liner manufacturer's recommendations and shall result in complete coverage of all pre-cast sections and be capable of passing a spark test.

#### 46.2.2 HDPE Liner

The HDPE embedment sheeting shall be mechanically bonded to the concrete by integral studs. The liner shall be cast in place by the precast manufacturer and the CONTRACTOR shall field weld the joints. Minimum thickness of liner is eighty (80) mils. All inserts and sleeves for piping shall be in accordance with the liner manufacturer's recommendations and shall result in complete coverage of all pre-cast sections and be capable of passing a spark test.

### 46.3 Valve Vault

Compression type wall seal shall be used for all force mains discharging from wet well and through valve vault. The size of the valve vault for a four (4) inch check valve and piping assembly requires a minimum fifty-six (56) inches by seventy-two (72) inches vault and a six (6) inch check valve and piping assembly requires a minimum seventy-two (72) inches by ninety-six (96) inches vault. Valve vault shall be sealed to prevent ground water infiltration. Surface of vault shall be cleaned prior to application of approved coating inside and outside of vault.

#### **46.4 Access Frames and Covers**

Both the wet well and the valve vault shall be furnished with an access frame and door(s). Equipment furnished shall include the necessary aluminum access frames, complete with hinged and slide bar equipped doors, stainless steel upper guide holder and level sensor cable holder. Doors shall be of aluminum diamond plate, coated as per Figure 301, Note 1, and capable of being locked. The wet well doors shall be sized according to pump manufacturer's recommendations. The access frame and door(s) shall have stainless steel hardware. The valve vault access doors size shall be a minimum of inside to inside wall dimensions with a load rating of three-hundred (300) pounds per square foot. The support beam for load rating shall be mounted on the door.

#### **46.5 Pumps and Controls**

Pumps and miscellaneous accessories shall be as specified in Section 47, of this MANUAL. Controls and miscellaneous accessories shall be as specified in Section 48, of this MANUAL.

#### **46.6 Piping, Valves and Accessories**

##### **46.6.1 Piping**

Influent piping to the wet well shall meet the requirements of Section 40 and 45, of this MANUAL. All pipe inside the wet well are to be HDPE with a maximum dimensional ratio of seventeen (17). The valve vault shall be as shown on the STANDARD DETAILS.

##### **46.6.2 Plug Valves**

Plug valves shall meet the requirements of Section 45, of this MANUAL.

##### **46.6.3 Check Valves**

Check valves for ductile iron pipelines shall be the swing type and shall meet the material requirements of AWWA C500. The valves shall be iron body, bronze mounted, single disc, one-hundred-fifty (150) psi working water pressure, non-shock, and hydrostatically tested at three-hundred (300) psi. Ends shall be one-hundred-twenty-five (125) pound ANSI B16.1 flanges.

When there is no flow through the line, the disc shall hang lightly against its seat in practically a vertical position. When open, the disc shall swing clear of the waterway.

Check valves shall have a bronze seat and body rings, extended bronze hinge pins, and stainless steel nuts on the bolts of bolted covers.

Valves shall be so constructed that disc and body seats may easily be removed and replaced without removing the valve from the line. Valves shall be fitted with an extended hinge arm with outside lever and weight. If pump shut off head exceeds seventy-seven (77) foot lbs., then an air cushioned assembly shall be installed.

#### 46.6.4 Pressure Gauges

Pressure gauges shall be installed on each discharge pipe as indicated on the STANDARD DETAILS. Each pressure gauge shall be direct mounted, stainless steel case, stainless steel sensing element, liquid filled, with a four-and-a-half (4-1/2) inch diameter dial, furnished with a clear glass crystal window, and a quarter (1/4) inch shut-off (damper) valve.

All gauges shall be weatherproofed. The face dial shall be white finished aluminum with jet black graduations and figures. The face dial shall indicate the units of pressure measured in psi, with a 0-100 psi range.

Pressure gauges shall not be installed until after the substantial completion date unless otherwise requested by the CITY.

### 46.7 **Standby Power Generator System**

#### 46.7.1 General

A standby power generator system shall be installed at pump stations as required by Section 22, of this MANUAL for electrical power during the loss of normal power.

#### 46.7.2 Generator Set

##### 46.7.2.1 General

The generator set shall consist of a diesel engine directly coupled to an electric generator, together with the necessary controls and accessories to provide continuous electric power to the lift station for the minimum duration of a forty-eight (48) hour failure of the normal power supply.

A complete engine generator system shall be furnished and installed with fuel transfer pump, fuel day tank, battery, battery charger, muffler, radiator, control panel, remotely mounted automatic transfer switch (if set is installed on-site), and all other accessories required for an operational system.

All materials and parts of the generator set shall be new and

unused. Each component shall be of current manufacture from a firm regularly engaged in the production of such equipment.

The set shall be of a standard model in regular production at the manufacturer's place of business. Units and components offered under the Specifications shall be covered by the manufacturer's standard warranty on new machines.

#### 46.7.2.2 Requirements

The emergency generator set and accessories shall be of a type that complies with the latest edition of the National Electrical Code and all applicable state and local building codes.

The manufacture of this equipment shall be of the highest quality consistent with the current for like equipment and shall be manufactured in such a manner so as to conform to the latest applicable IEEE, ANSI, ISA, and NEMA Standards.

The equipment supplier shall be liable for any latent defects due to faulty materials or workmanship in the equipment which may appear within one (1) year from the date of equipment start-up. The DEVELOPER shall also post a one (1) year maintenance bond in accordance with Section 11, of this MANUAL.

#### 46.7.2.3 Tests

Equipment shall be completely assembled and tested at the factory prior to shipment. Certified copies of the data obtained during these tests shall be submitted to the CITY.

Final tests shall be conducted at the site, after installation has been completed, in the presence of the CITY'S representative. The emergency generator manufacturer shall furnish a service representative to operate the engine during the tests, to check all details of the installation, and to instruct the CITY'S representatives in proper equipment operation.

Field tests may include operating the diesel generating set for eight (8) hours while carrying normal pump station loads. The CONTRACTOR shall refill the main fuel tank at the completion of the tests.



#### 46.7.2.4 Ratings

The rating of the generator shall be as shown on the DRAWINGS. These ratings must be substantiated by the manufacturer's standard published curves. Special ratings shall not be acceptable. The set shall be capable of supplying the specified usable kW for operating all pumps simultaneously for the specified duration, including pump start-up, without exceeding the safe operating temperature.

#### 46.7.2.5 Engine

The engine shall be water cooled four stroke cycle, compression ignition, and diesel. It shall meet specifications when operating on No. 2 domestic burner oil. The engine shall be equipped with fuel, lube oil and intake air filters, lube oil coolers, fuel transfer and priming pumps, and gear-driven water pump.

The engine and generator shall be torsionally compatible to prevent damage to either engine or generator.

An engine instrument panel shall be installed on the generator set in an approved location. The panel shall include oil and fuel pressure and water temperature gauges. A mechanically driven engine hour meter shall also be provided.

The engine governor shall be of the isochronous electronic type. Frequency regulation shall not exceed plus/minus 0.25 percent under steady state conditions. The engine shall start and assume its rated load within ten (10) seconds, including transfer time, if the set is installed on-site.

#### 46.7.2.6 Generator

The generator shall be three-phase, 60 hertz, single bearing, synchronous type, and built to NEMA Standards. Epoxy impregnated Class F insulation shall be used on the stator and the rotor.

The excitation system shall employ generator-mounted volts per hertz, type regulator. Voltage regulation shall be plus/minus two (2) percent from no load to full load. Readily accessible voltage drop, voltage level, and voltage gain controls shall be provided. Voltage level adjustment shall be a minimum of plus or minus five (5) percent.

#### 46.7.2.7 Engine Generator Control Panel

A generator mounted NEMA 3R Type 304, vibration isolated, 14 gauge stainless steel control panel shall be provided. Panel shall contain, but not be limited to, the following equipment:

1. Control Equipment: Control equipment shall consist of all necessary exciter control equipment, generator voltage regulators, voltage adjusting rheostat, speed control equipment, and automatic starting controls, as required to satisfactorily control the engine/generator set.
2. In addition, an automatic safety shut down shall be provided for low oil pressure and/or high temperature conditions in the engine and over-crank conditions. An emergency shut-down lever switch shall be provided on the air intake.
3. Metering Equipment: Metering equipment shall include 3-1/2-inch meters (dial or digital type frequency meter, two (2) percent accuracy voltmeter, and ammeter and ammeter-voltmeter phase selector switch). The control panel shall also include the engine water temperature, lube oil pressure, and hour meters.
4. Fault Indicators: Individual press-to-test fault indicator lights for low oil pressure, high water temperature, low water level, over-speed, over-crank, and for the day tank, high and low fuel level shall be provided.
5. Function Switch: A four (4) position function switch marked "Auto", "Manual", "Off/Reset", and "Stop" shall be provided.

#### 46.7.2.8 Battery Charger

The battery charger shall be so designed that it shall not be damaged, trip its circuit protective device during engine cranking, or it shall be automatically disconnected from battery during cranking period.

The charger shall be mounted in the emergency generator control panel. The charger shall have a 7-day/24-hour timer control. The CONTRACTOR shall provide the CITY with a fifty (50) foot commercial grade electrical extension cord capable of connecting the charger to a 120 volt source.

46.7.2.9 Battery

The battery shall be lead-acid type with sufficient capacity to provide ninety (90) seconds total cranking time without recharging. The battery shall be adequately rated for the specific generator set. The battery shall be encased in hard rubber or plastic, shall be furnished with proper cables and connectors, rack, and standard maintenance accessories. The battery shall be provided with a forty-eight (48) month warranty for the replacement of the battery, if found to be defective.

46.7.2.10 Base and Mounting

A suitable number of spring-type vibration isolators with a noise isolation pad shall be provided to support the set and appurtenances.

46.7.2.11 Utility Connections

All connections to the generator set shall be flexible.

46.7.2.12 Cooling System

The generator set shall be equipped with an engine mounted radiator sized to maintain safe operation at a maximum ambient temperature of 110° F. A blower type fan shall be used directing the air flow from the engine through the radiator. The entire cooling system shall be filled with 50 percent glycol-water solution.

46.7.2.13 Fuel System

Fuel system shall be sized to operate the generator system under anticipated full load for a minimum period of two (2) days.

For on-site installations, an above ground main fuel storage tank with float switch and fuel level indication shall be furnished and installed by the CONTRACTOR.

The emergency system shall include low fuel level contacts for remote alarm. A check valve shall be mounted on the pump intake. The emergency system shall include a float switch, fuel level gauge, and standard control panel. Size shall be determined in accordance with Section 46, of this MANUAL

For on-site installations the use of a Florida Department of Environmental Protection (FDEP) approved double wall tank design shall be used as a minimum design standard. Fuel oil piping, including mounting of any required fuel tanks, shall be furnished and installed by the CONTRACTOR.

#### 46.7.2.14 Exhaust System

The generator set supplier shall provide a critical-type silencer, with flexible exhaust fittings, properly sized and installed, according to the manufacturer's recommendation. The silencer shall be mounted so that its weight is not supported by the engine.

Exhaust pipe size shall be sufficient to ensure that measured exhaust back pressure does not exceed the maximum limitations specified by the generator set manufacturer. The exhaust system shall include a flexible, seamless, stainless steel connection between the engine exhaust outlet and the rest of the exhaust system. The exhaust system shall be a part of generator enclosure.

#### 46.7.2.15 Weather Proof Enclosure

Provide an enclosure to completely enclose the engine-generator, radiator, control panel, battery box, battery charger, day tank, fuel level indicating instrument, heaters, and other equipment as shown. Mount the engine silencer above the enclosure, with a structural support for the silencer.

Design the enclosure to prohibit the entrance of rodents, birds, and rain. The design shall permit the continuous full load operation of the engine-generator with all access doors closed.

Air intake louvers shall be side-wall mounted, with the majority of the opening located two (2) feet or more above the concrete pad to prevent the blockage by leaves or debris.

Louvers shall be steel, with 1/2 inch bird screen on the inlet air louvers and stainless-steel ball bearing louver pivot joints in cadmium-plated steel bearing races.

Construct enclosure of formed 0.125 inch aluminum, and

securely bolt to the engine-generator base.

Provide at least two sides (each side) and one rear gasketed, pan type doors, with a minimum width of twenty-eight (28) inches each for easy access to all the control and service items. Doors shall have vertical piano hinges with a minimum 1/4 inch stainless-steel pins, three point locking bar, and tumbler flanges or lifting eyes shall be provided in each end of the base to permit four-point lifting.

The roof shall be reinforced and rigid enough to support the exhaust system. A lockable, sealed cap shall be provided for radiator fill access. Oil and coolant drain lines shall terminate outside the enclosure.

The entire unit, enclosure, and other equipment shall be completely installed wired and plumbed by the engine supplier prior to shipment to the installation site.

Insulate the interior enclosure walls and top with two (2) inch sound absorbing urethane foam insulation with a protective vinyl cover.

#### 46.7.2.16 Automatic Transfer Switch

The automatic transfer switch shall be part of the control panel for on-site installed generator sets described in Section 48, of this MANUAL.

The transfer switch shall be provided with the following features:

1. Complete protection, close differential voltage sensing relays monitoring all three phases (pick-up set for 95 percent of nominal voltage, drop-out set for 85 percent nominal voltage).
2. Voltage sensing relay on emergency source (pick-up set for 95 percent of nominal frequency).
3. Time delay on engine starting--adjustable from 1 second to 300 seconds (factory set at 3 seconds).
4. Time delay normal to emergency transfer--adjustable from zero second to 300 seconds (factory set at 1 second). The CONTRACTOR shall request time delay settings in accordance with the priority rating or their respective loads.

5. Time delay emergency to normal transfer--adjustable 30 seconds to 30 minutes (factory set at 5 minutes), and time delay bypass switch shall be provided on door of the switch cabinet.
6. Unload running time delay for emergency engine generator cooling down-adjustable from 0 to 5 minutes (factory set at 5 minutes) unless the engine generator control panel includes the cool down timer.

#### 46.7.2.17 Warranty

Products shall be guaranteed to be free from defects in material and workmanship under normal use and service for a period of two (2) years after start-up.

### **46.8 Flow Monitoring System**

#### 46.8.1 General

When indicated on the DRAWINGS or as required by Section 22, of this MANUAL, a flow monitoring system capable of indicating, recording, and totalizing wastewater flows shall be provided for lift station of 1000 GPM and larger. The system shall include magnetic flowmeter and transmitter, electronic recording receiver, and miscellaneous related accessories as specified herein. It shall be the CONTRACTOR's responsibility to provide and install such equipment resulting in a completely operational flow monitoring system.

#### 46.8.2 Magnetic Flowmeter/Transmitter

The magnetic flowmeter shall be of the low frequency electromagnetic induction type and shall produce a DC pulsed signal directly proportional and linear to the liquid flowrate. The meter shall be designed for operation on 120 VAC  $\pm$  10 percent, 60 Hz  $\pm$  5 percent with a power consumption of less than 20 watts for sizes through twelve (12) inches.

The metering tubes shall be constructed of stainless steel. All magnetic flowmeters shall be designed to mount directly in the pipe between ANSI Class 150 flanges and shall consist of a flanged pipe spool piece with a laying length as recommended by the manufacturer. Meters shall have polyurethane liners with stainless steel electrodes.

The electronics portion of the magnetic flowmeter shall include both a magnet driver to power the magnet coils and a signal converter. The signal converter shall be integrally mounted. The converter shall include

a separate customer connection section to isolate the electronics compartment and protect the electronics from the environment. A separate terminal strip for power connection shall be supplied.

The electronics shall be of the solid state, feedback type and utilize integrated circuitry. The input span of the signal converter shall be continuously adjustable between 0-1 and 0-31 fps for both analog and frequency outputs.

The converter shall not be affected by quadrature noise nor shall it require zero adjustment or special tools for start-up. It must be designed to mount directly in the pipe between the ANSI Class 150 flanges and shall consist of a flanged pipe spool piece with a laying length as recommended by the manufacturer. Meters shall have polyurethane liners with stainless steel electrodes.

The electronics portion of the magnetic flowmeter shall include both a magnet driver to power the magnet coils and a signal converter. The signal converter shall be integrally mounted. The converter shall include a separate customer connection section to isolate the electronics compartment and protect the electronics from the environment.

A separate terminal strip for power connection shall be supplied. The electronics shall be of the solid state, feedback type and utilize integrated circuitry.

The input span of the signal converter shall be continuously adjustable between 0-1 and 0-31 fps for both analog and frequency outputs. The converter shall not be affected by quadrature noise nor shall it require zero adjustment or special tools for start-up.

Input and output signals shall be fully isolated. The converter output shall be 4 to 20 mA DC into 0 to 800 ohms.

Meter shall be suitable for outdoor installation and shall be furnished complete with grounding rings and installation hardware including studs, nuts, gaskets, and flange adapter hardware.

The converter shall include an integral zero return to provide a constant zero output signal in response to an external dry contact closure.

Converter shall also include digital type switches for direct adjustment of scaling factor in engineering units along with integral calibration self-test feature to verify proper operation of the electronics.

The meter shall be hydraulically calibrated at a facility located in the United States and the calibration shall be traceable to the National

Bureau of Standards. A computer printout of the actual calibration data giving indicated versus actual flows at a minimum of three (3) flow rates shall be provided with the meter.

A certification letter shall accompany the computer printout of the calibration data for each meter referencing the meter's serial number. The accuracy of the metering system shall be 1 percent of rate, from 10 to 100 percent of flow for maximum flow velocities, of 3 to 31 feet per second.

Complete zero stability shall be an inherent characteristic of the meter system to eliminate the need to zero adjust the system with a full pipe at zero flow.

The meter housing shall be splash-proof and weather resistant design. The meter shall be capable of accidental submergence in up to thirty (30) feet of water for up to forty-eight (48) hours without damage to the electronics or interruption of the flow measurement.

#### 46.8.3 Electronic Recording Receiver

The electronic recording receiver shall be of the solid state, null-balance, servo operated potentiometer type.

The instrument shall contain a differential amplifier, a TORQ-ER driving motor to position the pen, and a Flux Bridge contact less solid state position feedback device for balancing. The instrument shall be capable of receiving one process variable input. Inputs shall be provided with electrical isolation.

The instrument shall accept an input signal of 4 to 20 mA DC. Electrical zero and span adjustments shall be provided. Power requirements shall be 120 VAC  $\pm$  10 percent, 60 Hz. A power supply shall be provided for two-wire transmitters. Accuracy shall be  $\pm$  0.5 percent of span, with repeatability of  $\pm$  0.2 percent of span.

The receiver shall be provided with an indicating five (5) inch segmental scale.

The electronic recording receiver shall be housed in a cast aluminum case suitable for panel mounting. The case shall have a gasketed door with glass window. A twelve (12) inch circular chart shall be provided, with seven (7) day/rev. and chart rotation. An eight (8) digit electronic totalizing counter shall also be provided.



#### 46.8.4 Warranty and Service

Products shall be guaranteed to be free from defects in material and workmanship under normal use and service for a period of two (2) years after start-up.

Service shall be available for repair of the products. Manufacturer's repair personnel shall be based in Florida to insure a reasonable response time of not more than two (2) working days.

### 46.9 **Decorative Fencing**

#### 46.9.1 General

The CONTRACTOR shall furnish and erect decorative fence and gates in accordance with these specifications and in conformity with the lines, grades, notes, and typical sections as shown on the DRAWINGS and the STANDARD DETAILS.

#### 46.9.2 Materials

Decorative fences shall be a minimum of six (6) feet in height and made of aluminum, metal, wrought iron, masonry wall with brick or stone finish, or equal as approved by the DIRECTOR. The engineer of record shall provide details and design data of such fence or brick wall. All fences shall comply with the local and state building codes and shall require the proper permits prior to construction. All fences shall have their finished side facing outward. These specifications shall also apply to gates.

#### 46.9.3 Design and Installation

The design of a decorative fence shall be provided to the Community Development Department for review and shall require a plan and complete cross section of the intended design. Installation shall be in accordance with the CITY'S rules and regulations.

Swing gates shall be two six (6) feet minimum width double hung gates as indicated on the STANDARD DETAILS and hinged to swing through 180° degrees from closed to open and shall be complete with latches, locking device, stops keeper, hinges, and braces. Gates shall be the same height as the fence.

### 46.10 **Required Submittals**

Submittals shall be provided to the CITY, if not contained within the STANDARD DETAILS, of the following:

1. Shop and erection drawings showing all important details of construction, dimensions, and anchor bolt locations.
2. Descriptive literature, bulletins, and/or catalogs of the equipment, including valves, fittings, wet well construction, etc.
3. Data on the characteristics and performance of each pump. Data shall include guaranteed performance curves, based on actual shop tests of similar units, which show that they meet the specified requirements for head, capacity, efficiency, NPSHR, submergence, and horsepower.

Curves shall be submitted on eight and one-half (8-1/2) inch by eleven (11) inch sheets, at as large a scale as is practical. Curves shall be plotted from no flow at shut off head to maximum manufacturer recommended pump capacity. Catalog sheets showing a family of curves will not be acceptable.

4. Complete layouts, wiring diagrams, and elementary or control schematics, including coordination with other electrical control devices operating in conjunction with the pump control system. Suitable outline drawings shall be furnished for approval before proceeding with manufacture of any equipment. Standard preprinted sheets or drawings simply marked to indicate applicability will not be acceptable.
5. A drawing showing the layout of the pump control panel shall be furnished. The layout shall indicate and completely identify all devices mounted on the door and in the panel.
6. The weight of each pump.
7. Three (3) sets each of Operation and Maintenance Manuals for the pump station, generator set, and other related equipment to be submitted thirty (30) days prior to start-up.
8. Complete motor data shall be submitted including:
  1. Nameplate identification
  2. No-load current
  3. Full load current
  4. Full load efficiency
  5. Locked rotor current
  6. High potential test data
  7. Bearing Inspection report

## **46.11 Electrical Grounding System**

### **46.11.1 General**

A grounding system shall be installed as per National Electrical Code, Local Codes and Ordinances. The DRAWINGS shall clearly show the Electrical Grounding System. An underground perimeter cable grounding system shall be installed with connections to at least the following equipment:

1. Wet Well Cover
2. Valve Vault Cover
3. Control Panels
4. Generator (as applicable)
5. Utility Company Transformer
6. Main Disconnect Switch
7. Fence

### **46.11.2 Material and Installation**

The DRAWINGS shall show details of material and installation to construct a completely functional and operational Electrical Grounding System.

## **46.12 Inspection and Testing**

A factory representative knowledgeable in pump operation and maintenance shall inspect and supervise a test run at the pumping station covered by this MANUAL. Additional test run time made necessary by faulty or incomplete WORK or equipment malfunctions shall be taken so that the requirements of this MANUAL are met at no additional cost to the CITY. Upon satisfactory completion of the test run, the factory representative shall issue the required manufacturer's certificate.

The test run shall demonstrate that all items of the MANUAL have been met by the equipment as installed and shall include, but not be limited to, the following tests:

1. That all units have been properly installed.
2. That the units operate without overheating or overloading any parts and without objectionable vibration.
3. That there are no mechanical defects in any of the parts.
4. That the pumps can deliver the specified pressure and quantity.
5. That the pumps are capable of pumping the specified material.
6. That the pump controls perform satisfactorily. The CONTRACTOR shall

furnish the water for the test run either through the use of a fire hydrant meter or water truck.

#### **46.13 Weed Control**

A sixty (60) mil thick geo-fabric shall be installed for weed control. The fabric shall be a heat bonded, non-woven, polypropylene, which is inert to biological degradation and resistant to naturally encountered chemicals, alkalis and acids. The fabric shall provide passage of air and liquids.

END OF SECTION

## Section 47 – Wastewater Pumps and Motors

### 47.1 General

The equipment covered by these specifications is intended to be standard submersible or above ground pumping equipment of proven ability as manufactured by a reputable firm having at least five (5) years' experience in the production of such equipment. The equipment furnished shall be designed, constructed, and installed in accordance with the best practices and methods, and shall operate satisfactorily when installed as shown on the DRAWINGS.

All parts shall be so designed and proportioned as to have liberal strength, stiffness, and to be especially adapted for the work to be done. Ample space shall be provided for inspection, repairs, and adjustment. All necessary foundation bolts, plates, nuts, and washers shall be furnished by the equipment manufacturer and be of Type 304 stainless steel. Brass or stainless steel nameplates giving the name of the manufacturer, voltage, phase, rated horsepower, speed, and any other pertinent data shall be attached to each pump with stainless steel rivets. The nameplate rating of the motors shall not be exceeded.

The pumps shall be capable of handling raw unscreened domestic wastewater and minimum three (3) inch diameter solid spheres. Pump operation shall be controlled automatically by means of float-type liquid level sensors in the wet well. Submersible pumps shall be mounted in the wet well as shown on the STANDARD DETAILS.

### 47.2 Pump Construction

#### 47.2.1 Shaft

The pump shaft shall be of Series 300 or 400 stainless steel or carbon steel. When a carbon steel shaft is provided, the manufacturer shall demonstrate that any part of the shaft which will normally come in contact with the wastewater has proven to be corrosion resistant in this application. The shaft and bearings shall be adequately designed to meet the maximum torque required for any start-up or operating condition and to minimize vibration and shaft deflection.

As a minimum, the pump shaft shall rotate on two (2) permanently lubricated bearings. The upper bearing shall be a single row ball bearing. The lower bearing shall be a two row angular contact ball bearing, if required to minimize vibration and provide maximum bearing life.

#### 47.2.2 Impeller

The impeller shall be constructed of bronze or stainless steel. All external bolts and nuts shall be of Type 304 stainless steel. Each pump shall be provided with a replaceable metallic wear ring system to

maintain pump efficiency. As a minimum one stationary wear ring provided in the pump volute or one rotating wear ring provided on the pump impeller shall be required. A two-part system is acceptable.

#### 47.2.3 Mechanical Seal

Each pump shall be provided with a tandem double mechanical seal running in an oil reservoir, composed of two separate lapped face seals, each consisting of one stationary and one rotating tungsten carbide ring with each pair held in contact by a separate spring, so that the outside pressure assists spring compression in preventing the seal faces from opening. The compression spring shall be protected against exposure to the pumped liquid. Silicon carbide may be used in place of tungsten carbide for the lower seal. The pumped liquid shall be sealed from the oil reservoir by one face seal and the oil reservoir from the air-filled motor chamber by the other. The seals shall require neither maintenance nor adjustment and shall be easily replaced. Conventional double mechanical seals with a single spring between the rotating faces requiring constant differential pressure to effect sealing, which are subject to opening and penetration by pumping forces, shall not be considered equal to tandem seal specified and required.

#### 47.2.4 Guides for Submersible Pumps

A sliding guide bracket for submersible pumps shall be an integral part of the pump casing. Said bracket shall have a machined connecting flange to connect with the cast iron discharge connection, which shall be bolted to the floor of the wet well with stainless steel anchor bolts and so designed as to receive the pump discharge flange without the need of any bolts or nuts.

Sealing of the pumps to the discharge connection shall be accomplished by a simple linear downward motion of the pump with the entire weight of the pumping unit guided by no less than two (2) Type 316 seamless tubular stainless steel guides which will press it tightly against the discharge connection. No portion of the pump shall bear directly on the floor of the wet well and no rotary motion of the pump shall be required for sealing. Sealing at the discharge connection by means of a diaphragm or similar method of sealing will not be accepted as an equal to a metal to metal contact of the pump discharge and mating discharge connection. Approved pump manufacturers, if necessary to meet the above specification, shall provide a sliding guide bracket adapter.

The design shall be such that the pumps shall be automatically connected to the discharge piping when lowered into place on the discharge connection. The pumps shall be easily removable for inspection or service, requiring no bolts, nuts, or fastenings to be removed for this purpose. Said installation shall not require personnel to enter the wet well. Each pump shall be fitted with a Type 304 stainless

steel three-quarter (3/4) inch lifting chain of adequate strength. A quarter (1/4) inch stainless steel cable, aircraft rating, shall be provided between the cable holder and the lifting chain.

## **47.3 Motors**

### **47.3.1 General Requirements**

All motors shall be built in accordance with latest NEMA, IEEE, ANSI, and AFBMA Standards where applicable. Pump motors shall be housed in an air-filled, water-tight casing, and have Class F insulated windings which shall be moisture resistant. Motors shall be NEMA Design B rated at 155° degrees Celsius maximum. Pump motors shall have cooling characteristics suitable to permit continuous operation, in a totally, partially, or non-submerged condition as required for the individual pump type. Submersible pumps shall be capable of running continuously in a non-submerged condition under full load without damage for extended periods. The motor shall be capable of a minimum of eighteen (18) starts per hour. If required by the CITY, before final acceptance, a field running test demonstrating this ability, with twenty-four (24) hours of continuous operation under the above conditions, shall be performed for all pumps being supplied. Motors twenty-five (25) horsepower and below shall be rated 230/460 volt, 3 phase. Motors greater than twenty-five (25) horsepower shall be 460 volt, 3 phase.

### **47.3.2 Heat and Moisture Sensors**

Each motor shall incorporate a minimum of one ambient temperature compensated overheat sensing device and one moisture sensing device. These protective devices shall be wired into the pump controls in such a way that if excessive temperature or moisture is detected the pump will shut down. These devices shall be self-resetting.

### **47.3.3 Cables**

Cables shall be designed specifically for submersible or above ground pump applications, as required, and shall be properly sealed. A type CGB water-tight connector with a neoprene gland shall be furnished with each pump to seal the cable entry at the control panel.

The pump cable entry seal design shall preclude specific torque requirements to insure a water-tight and submersible seal. The cable entry shall be comprised of a single cylindrical elastomer grommet, flanked by washers, all having a close tolerance fit against the cable outside diameter and the entry inside diameter and compressed by the entry body containing a strain relief function, separate from the function of sealing the cable.

The assembly shall bear against a shoulder in the pump top. The cable entry junction chamber and motor shall be separated by a stator lead sealing gland or terminal board, which shall isolate the motor interior from foreign material gaining access through the pump top.

Secondary sealing systems utilizing epoxy potting compounds may be used. When this type of sealing system is used, the manufacturer shall supply a cable cap as part of the spare parts for each pump. All cables shall be continuous, without splices from the motor to the control panel. The junction chamber, containing the terminal board, shall be completely leak proof.

#### **47.4 Shop Painting**

Before exposure to weather and prior to shop painting, all surfaces shall be thoroughly cleaned, dry, and free from all mill-scale, rust, grease, dirt and other foreign matter. All pumps and motors shall be shop coated with a corrosion resistant paint proven to withstand an environment of raw wastewater. All nameplates shall be properly protected during painting.

Gears, bearing surfaces, and other similar surfaces obviously not intended to be painted shall be given a heavy shop coat of grease or other suitable rust-resistant coating.

This coating shall be maintained as necessary to prevent corrosion during periods of storage and erection and shall be satisfactory to the CITY up to the time of the final acceptance test.

#### **47.5 Handling**

All parts and equipment shall be properly protected so that no damage or deterioration will occur during a prolonged delay from the time of shipment until installation is completed and the units and equipment are ready for operation.

Finished surfaces of all exposed pump openings shall be protected by wooded planks, strongly built, and securely bolted thereto. Finished iron or steel surfaces not painted shall be properly protected to prevent rust and corrosion.

#### **47.6 Warranty**

The pump manufacturer shall warrant the units being supplied to the CITY against defects in workmanship and material for a period of five (5) years or ten-thousand (10,000) hours.

END OF SECTION



## **Section 48 – Pump Station Electrical Power and Control System**

### **48.1 General**

This Section specifies the electrical power and control system requirements for wastewater pump stations. These requirements apply to duplex pump panels. Similar requirements shall apply when more than two (2) pumps are involved, except for the quantity of control equipment and panel size shall be increased accordingly.

The manufacturer of the control panel shall provide data to indicate that the manufacturer has a minimum of five (5) years' experience in the building of pump control panels.

A pump station control panel shall be provided for each wastewater pump station. See approved manufacturers' list in Appendix 'C' of this MANUAL. The control panel shall respond to liquid level float switches to automatically start and stop pumps as well as sound an alarm upon high or low wet well levels. The control panel shall operate two (2) electrical submersible pumps at the power characteristics stipulated.

The control function shall provide for the operation of the lead pump under normal conditions. If the incoming flow exceeds the pumping capacity of the lead pump, the lag pump shall automatically start to handle this increased flow. As the flow decreases, pumps shall be cut off at elevation as shown on the DRAWINGS.

Pumps shall alternate positions as lead pump at the end of each cycle. A failure of the alternator shall not disable the pumping system. The alternator shall include a safe and convenient method of manual alternation with provisions to prevent automatic alternation without disturbing any wiring. Should the "pump off" regulator fail, the system shall keep the station in operation and provide a visual indication of the regulator failure.

The control panel shall consist of main circuit breakers and generator breaker with mechanical interlock, an emergency power receptacle, a circuit breaker and magnetic starter for each pump motor, and a minimum 15 ampere, 120 volt circuit breakers as required. All pump control operations shall be accomplished by a float type liquid level control system with all control components mounted in one common enclosure.

Control switches shall provide means to operate each pump manually or automatically. When operated in the automatic mode, the control assembly shall provide means to manually select or automatically alternate the position of the "lead" and "lag" pumps after each pumping cycle. A float type liquid level control system shall continuously monitor the wet well liquid level and control operation of the low-level cutoff for the pumps while operating off a 24 volt circuit.

## 48.2 Panel Construction

The duplex pump panel shall be housed in a NEMA 4X, Type 304, 14 Gauge stainless steel enclosure, with thirty percent extra mounting space for additional equipment. The enclosure shall have provisions for padlocking the door and a dead front inner door unit for mounting controls. All exterior hardware and hinges shall be stainless steel.

There shall be permanently affixed to the interior side of the exterior enclosure door a nameplate, the control panel schematic and a 10 inch x 12 inch pocket for log sheet storage. The nameplate shall contain the following information, voltage, phase, rated horsepower, speed, and date manufactured. Also contained shall be the pump and control panel manufacturer's name, address, and telephone number, pump data, including impeller data, operating point and head, kilowatt input, amps at the operating point, and at least two other points on the pump curve.

The control panel enclosure shall be Underwriters Laboratories (UL) 50 Type 4X listed.

## 48.3 Power Supply and Main Disconnect

Power supply to the control panel shall be 240 volt, 3 phase, 4 wire or 480 volt, 3 phase, 4 wire. Minimum service shall be 100 AMP. Single phase power shall not be accepted unless specifically approved in writing by the DIRECTOR. The main disconnect box shall be made of either aluminum or stainless steel.

Non-fusible safety service main disconnects shall be installed at all stations. In all 240 volt systems, disconnects should be installed between the meter and the panel. On all 480 volt systems, disconnect should be installed ahead of the meter, or as directed by the electric supply company. LED power available indicators shall be supplied on all legs.

## 48.4 Circuit Breakers

### 48.4.1 Main Breakers

The panel shall have an interlock system between the normal power main breaker and the emergency breaker to ensure only one breaker is in the "on" position at a time. Both breakers shall be equal in size and of the same model and manufacture.

### 48.4.2 Circuit Breakers

All circuit breakers shall be heavy duty molded case breakers. The handle on the circuit breakers shall be operational through the inner door.

## **48.5 Motor Circuit Breakers**

Each pump motor shall be protected by a 3-pole motor circuit protector. The motor circuit protector shall be operated by a toggle-type handle and have a quick-make, quick-break over-center switching mechanism that is mechanically trip-free from the handle so that the contacts cannot be held closed against a short circuit and abnormal currents which cause the motor circuit protection to trip.

Tripping shall be clearly indicated by the handle automatically assuming a position midway between the normal ON and OFF positions. All latch surfaces shall be ground and polished. All poles shall be so constructed that they open, close, and trip simultaneously. Motor circuit protector shall be completely enclosed in a high-strength glass polyester molded case.

Ampere ratings shall be clearly visible. Contacts shall be of non-welding silver alloy. Arc extinction shall be accomplished by means of arc chutes. A manual push-to-trip button shall be provided for manual exercising of the trip mechanism. Each pole of these motor circuit protectors shall provide instantaneous short circuit protection by means of an adjustable magnetic-only element.

## **48.6 Motor Starter and Selector Switches**

The panel shall contain a motor starter for each motor. The motor starter shall be across the line non reversing magnetic starter with individual mechanical overload protection on each power leg with reset installed through the dead front inner door unit. Provide solid-state soft start overloads for motors greater than 50 horsepower.

Selector switches shall be installed on the face of the inner dead front door unit. Selector switch shall be a heavy-duty oil tight "Hand-Off-Auto" three-position switch to control the operation mode of each pump motor starter.

## **48.7 Pump Alternator**

An eleven (11) pin plug-in solid state alternator shall be provided to change the pump starting sequence on each pumping cycle. A three position alternator test switch shall be provided to control the alternation operation. Switch positions to include the "Auto" to provide normal automatic sequence, "Off" position to disable alternator, and "test" position with a spring return to allow the alternating of the pump sequence to check alternator operation.

## **48.8 Lights and Alarms**

### **48.8.1 Indicator Lights**

There shall be installed on the face of the dead front inner door, heavy-duty oil-tight indicator lights as shown on the STANDARD DETAILS.

#### 48.8.2 High Level Alarm

A vapor proof red light and horn shall be mounted on the side of the panel for high-level alarm. Also, there shall be an alarm silence pushbutton on the dead front inner door and a silence relay which will silence the horn and automatically reset when these signals are restored to normal. The pushbutton shall be heavy-duty oil tight.

### 48.9 **Emergency Power Receptacles**

Emergency power receptacles shall be required on stations that do not have a permanent standby generator system. The panel shall have external mounted generator receptacle of the required size.

### 48.10 **Additional Requirements**

#### 48.10.1 Wiring

All power wires shall be THWN 75°C insulated stranded copper conductors and appropriately sized for the given load application. All control circuit wire shall be type THWN. All wiring within the enclosure shall be neatly routed by the use of slotted type wiring duct with snap on type covers. Wiring on the rear of the inner door shall be neatly bundled with nylon ties and include sufficient loop across the hinges to prevent wire damage, with each end of conductor permanently identified with terminal number, Color: red, 24 volt; white, neutral; and black, 120 volts.

#### 48.10.2 Terminal Points

Terminal points of all terminal strips shall be permanently identified. All terminal numbers and identifying nomenclature shall correspond to and be shown on electrical diagrams. All wiring shall be permanently shown on electrical schematic diagrams.

#### 48.10.3 Engraved Name Plates

All circuit breakers, control switches, indicator pilot lights and other control devices shall be identified with permanently affixed legend plates and lamicoid-type engraved nameplates where applicable.

#### 48.10.4 Surge Protector

A surge protector shall be included and wired to protect motors and control equipment from lightning induced line surges. All surge protectors shall be U.L. approved, installed, and attached to the main disconnects per respective power company requirements and manufacturer's specifications.

#### 48.10.5 Elapsed Time Meters

Elapsed time meters shall be 115 volt non-reset type totalizing pump run times in hours and tenths of hours to 99999.9 hours.

#### 48.10.6 Convenience Receptacle

On the face of the inner door unit, there shall be installed a 20 ampere 120 volt, duplex convenience receptacle, GFCI protected. It shall be provided with its own single pole 15 ampere circuit breaker for protection.

#### 48.10.7 Control Terminal Blocks

Control terminal blocks shall be of the clamp screw type rated for 600 volts. Amperage rating shall accommodate the control circuit amperage. An additional 30 space terminal strip shall be installed in the cabinet for future use, with RTU equipment.

#### 48.10.8 Control Power Transformers

There shall be a control power transformer with a minimum size of 2.5 kVA to provide 120 volt power to the coils for starters, 20 ampere duplex receptacle, indicator pilot lights, pump alternator, elapsed time meters, etc. The secondary side shall have one leg fused and the other grounded. This control power transformer is required only on 480 volt control panels.

A 24 volt control power transformer shall provide power to those float switches not operated by 12 volt DC.

#### 48.10.9 Control Relays

The control relays shall be the enclosed (“ice-cube”) plug-in 8 or 11 pin type screw terminal sockets.

#### 48.10.10 Electrical Schematic

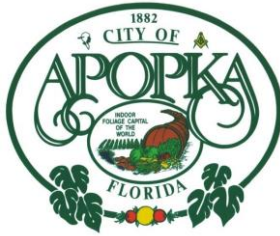
There shall be permanently affixed to the interior side of the exterior enclosure door an electrical schematic diagram. The schematic diagram shall include the rated amperage and voltage for all components and a component description with manufacturer’s name and catalog number.

#### 48.10.11 Phase Monitor

For all 240 volt stations, an eleven (11) pin plug-in type phase monitor shall be provided for protection of electrical components due to phase loss. Adequate dummy pin protection shall be provided to prevent accidental interchanging of the phase monitor with the alternator. All 480 volt stations shall have surface mount type phase monitors.

END OF SECTION

**City of Apopka**  
**Utilities**  
**Design and Construction Standards Manual**



**Chapter 5**  
**Potable Water System**

<b>Section 50</b>	<b>Materials</b>
<b>Section 51</b>	<b>Installation</b>
<b>Section 52</b>	<b>Testing</b>

## Section 50 - Material

### 50.1 General

These specifications cover the pipe, fittings, and accessory items used for potable water and raw water transmission facilities.

Pipe used in water distribution systems shall be either polyvinyl chloride (PVC), ductile iron (DI) or high density polyethylene (HDPE).

The CONTRACTOR shall be responsible for all materials furnished and storage of same, until the date of substantial completion. He shall replace at his expense all materials found to be defective or damaged in handling or storage. The CONTRACTOR shall, if requested by the CITY, furnish certificates, affidavits of compliance, test reports, and/or samples for check analysis for any of the materials specified herein. All pipe delivered to the project site for installation is subject to random testing for compliance with the designated specifications.

Pipe and fitting interior linings shall conform to NSF/ANSI 61 list of approved materials standard.

### 50.2 Materials

#### 50.2.1 PVC Pipe

PVC pipe of nominal diameter four (4) inches through twelve (12) inches shall be manufactured in accordance with AWWA Standard C900. Pipe of nominal diameter fourteen (14) inches and larger shall be manufactured in accordance with AWWA Standard C905. Pipe shall have a minimum pressure rating of one-hundred-fifty (150) psi and have a maximum dimension ratio (DR) of eighteen (18). Pipe shall be blue in color.

#### 50.2.2 Ductile Iron Pipe

Ductile iron pipe shall conform to ANSI/AWWA A21.51/C151. Pipe of nominal diameter four (4) inches through twelve (12) inches shall be pressure Class 350. Pipe of nominal diameter fourteen (14) inches through twenty-four (24) inches shall be pressure Class 250. Pipe of nominal diameter thirty (30) inches and larger shall be pressure Class 200.

#### 50.2.3 HDPE Pipe

HDPE pipe one-half (0.5) inches through three (3) inches shall be manufactured in accordance with AWWA Standard C901. Pipe of nominal diameter four (4) inches and larger shall be manufactured in



accordance with AWWA Standard C906. Pipe shall have a minimum pressure rating of one-hundred-sixty (160) psi and have a maximum dimension ratio (DR) of eleven (11) for PE3408 or dimension ratio (DR) of eleven (9) for PE2406 and PE3406 for use with ductile iron pipe fittings.

### **50.3 Material Identification and Testing**

#### **50.3.1 Pipe Identification**

Each length of pipe shall bear the name or trademark of the manufacturer, the location of the manufacturing plant, and the class or strength classification of the pipe. The markings shall be plainly visible on the pipe barrel. Pipe, which is not clearly marked, is subject to rejection. The CONTRACTOR shall remove all rejected pipe from the project site within five (5) NORMAL WORKING DAYS.

#### **50.3.2 Material Testing Requirements**

If requested by the CITY, a sample of pipe to be tested shall be selected at random by the CITY or the testing laboratory hired by the CITY.

When the samples tested conform to applicable standards, all pipe represented by such samples shall be considered acceptable based on the test parameters measured. Copies of test reports shall be available before the pipe is installed on the project.

In the event that any of the test samples fail to meet the applicable standards, all pipe represented by such tests shall be subjected to rejection. The CONTRACTOR may furnish two additional test samples from the same shipment or delivery, for each sample that failed. The pipe will be considered acceptable if all of these additional samples meet the requirements of the applicable standards. All such retesting shall be at the CONTRACTOR'S expense.

Pipe that has been rejected by the CITY shall be removed from the site of the WORK by the CONTRACTOR and replaced with pipe that meets these specifications.

### **50.4 Joint Materials**

#### **50.4.1 PVC Pipe Joints**

PVC pipe shall have integral bell push-on type joints conforming to ASTM D3139.

#### 50.4.2 Ductile Iron Pipe Joints

Joints for ductile iron pipe shall be push-on or mechanical joints conforming to ANSI/AWWA A21.11/C111. Restrained or flanged joints shall be provided where called for in the PLANS. Flanged joints shall conform to ANSI Standard B 16.1-125 pounds.

#### 50.4.3 HDPE Pipe Joints

HDPE joints shall conform to AWWA C901 and C906.

### 50.5 **Coatings and Linings for Ductile Iron Pipe and Fittings**

#### 50.5.1 Fittings

Ductile iron fittings shall have fusion-bonded epoxy coating in accordance with ANSI/AWWA C116.

#### 50.5.2 Pipe Interior

Ductile iron pipe shall have an interior protective lining of cement-mortar with a seal coat of asphaltic material in accordance with ANSI/AWWA A21.4/C104.

#### 50.5.3 Pipe Exterior

The exterior of ductile iron pipe shall be coated with asphaltic material in accordance with a minimum one (1) mil thick in accordance with ANSI/AWWA A21.51/C151.

Additional applied exterior coatings for above ground pipe, fittings and valves shall be thoroughly cleaned and given one field coat (minimum 1.5 mils dry thickness) of rust inhibitor primer. Intermediate and finished field coats of Alkyd shall also be applied by the CONTRACTOR (minimum 1.5 mil dry thickness each coat). Primer and field coats shall be compatible and shall be applied in accordance with the manufacturer's recommendations. Final field coat shall be blue for finished water.

#### 50.5.4 Polyethylene Encasement

Polyethylene encasement shall be in accordance with ANSI/AWWA A21.51/C105, wrapping colors to be blue. Polyethylene encasements are required in accordance with AWWA C105 and when crossing, or adjacent to, power easements and gas easements.

### 50.6 **Fittings**

#### 50.6.1 PVC Pipe Fittings

Fittings used with PVC pipe shall be ductile iron pipe fittings as described in this section.

#### 50.6.2 Ductile Iron Pipe Fittings

All fittings used with ductile iron pipe shall be mechanical joint ductile iron conforming to ANSI/AWWA A21.10/C110, three-hundred-fifty (350) psi minimum pressure rating for sizes 24 inches and smaller and two-hundred-fifty (250) psi minimum pressure rating for sizes larger than 24 inches, or ductile iron compact fittings in accordance with ANSI/AWWA A21.53/C153.

#### 50.6.3 HDPE Pipe

HDPE fittings shall be fusion-bonded fittings. HDPE fittings shall be joined to the HDPE pipe by thermal heat fusion. HDPE fittings shall be molded or fabricated conforming to AWWA C906. Molded fittings shall conform to ASTM D2683 for socket-type fittings, ASTM D3261 for butt-type fittings or ASTM F1055 for electro fusion-type fittings.

### 50.7 Services

#### 50.7.1 Service Connections at Main

One (1) to two (2) inch service connections shall be brass body reduced port type corporation stops, equipped with connections compatible with the polyethylene tubing and threaded in accordance with specifications in AWWA C800, AWWA C901 and shall comply with NSF-61.

Service connections, three (3) inches through twelve (12) inches, shall be iron body resilient seat gate valves. Three (3) inch services at the water main shall have connections for female iron pipe by female iron pipe thread, conforming to AWWA C509.

Service taps for air release valve installations shall utilize a two (2) inch corporation stop.

#### 50.7.2 Service Pipe

One (1) inch and two (2) inch service lines shall be blue polyethylene tubing, conforming to specifications in AWWA C800, SDR 9 and AWWA C901.

Service lines, four (4), six (6), eight (8), ten (10) and twelve (12) inches in size, shall be blue PVC, HDPE or ductile iron pipe depending upon application.

#### 50.7.3 Service Control Valves at Property Line

One (1) inch and two (2) inch size service control valves shall be reduced port ball valves, made of brass, cast and machined in accordance with specifications in AWWA C800, AWWA C901, compliant with NSF-61 and compatible polyethylene tubing connections.

For metered connections three (3) inches and greater, the CONTRACTOR shall provide the valves with the meter.

For non-metered connections four (4) inches and greater, the CONTRACTOR shall provide resilient seat OS&Y gate valves.

#### 50.7.4 Service Fittings

One (1) inch and two (2) inch fittings shall be brass, cast and machined in accordance with the specifications in AWWA C800, AWWA C901, and comply with NSF-61 with compatible polyethylene tubing connections.

Fittings, four (4), six (6), eight (8) and twelve (12) inches in size shall be the same as reclaimed water main fittings, per this Section of this MANUAL.

#### 50.7.5 Stainless Steel Service Saddles

Epoxy or nylon coated stainless steel, 18-8 type 304 straps, AWWA tapered threads, two (2) inches to be iron pipe threads. Controlled OD saddles to be used on C900 and IPS, OD, PVC pipe, double straps to be two (2) inch minimum width each, single strap to be minimum of three (3) inches wide.

#### 50.7.6 PVC Pipe Service Saddle

One (1) inch and two (2) inch services utilize brass body saddle with controlled OD. Four (4) inches or larger services shall be mechanical tapping sleeves.

#### 50.7.7 Ductile Iron Pipe Service Saddle

One (1) inch and two (2) inch shall use a controlled OD service tapping saddle with stainless steel straps and a ductile iron body that is either

nylon or epoxy coated. Four (4) inches or larger services shall be mechanical tapping sleeves.

#### 50.7.8 HDPE Pipe Service Saddle

One (1) inch and two (2) inch service saddles shall be fused.

Taps, four (4) inches and larger, shall use wide body tapping sleeves with a broad cross section gasket set in a retaining groove that increases sealing capability as pressure increases.

### 50.8 Resilient Seat Gate Valves

Gate valves shall be resilient seat gate valves, manufactured to meet or exceed the requirements of AWWA C509, latest revision, and in accordance with these specifications. Valves shall have an unobstructed waterway equal to or greater than the full nominal diameter of the valve. Valves shall have a minimum pressure rating of two-hundred (200) psi for sizes 12 inches and smaller and a minimum pressure rating of one-hundred-fifty (150) psi for sizes larger than 12 inches.

Valves sixteen (16) inches and larger shall have side actuators. The valve body, bonnet and bonnet cover shall be cast iron ASTM A126, Class B. All ferrous surfaces inside and outside shall have a fusion-bonded epoxy coating in accordance with AWWA C 550. A two (2) inch valve wrench shall be provided for operating the valve.

All valves are to be tested in strict accordance with AWWA C509.

All valves shall open left or counter clockwise.

The valves shall be non-rising stems with the stem made of cast, forged, or rolled bronze as specified in AWWA C509. Two (2) stem seals shall be provided and shall be of the O-ring type. The stem nut must be independent of the gate.

The resilient sealing mechanism shall provide zero leakage at test and normal working pressure when installed with the line flow from either direction.

### 50.9 Butterfly Valves

Valves fourteen (14) inches and larger may be butterfly valves, as approved by the CITY. Butterfly valves and operators shall conform to the "AWWA Standard Specifications for Rubber Seated Butterfly Valves", Designation C504, latest version, except as hereinafter specified, shall be minimum Class 150B.

The valve body materials shall be epoxy coated inside and out per AWWA C550. The valve body shall be constructed of close grain cast iron per ASTM A126,

Class B or equivalent material. All retaining segments and adjusting devices shall be of corrosion resistant material.

Valve seats shall be a natural rubber or synthetic rubber compound. Valve seats shall be field adjustable and replaceable without dismounting operator disc or shaft and without removing the valve from the line. All retaining segments and adjusting devices shall be of corrosion resistant material.

The face-to-face dimensions of valves shall be in accordance with above-mentioned AWWA specification for short-body valve.

The valve shaft shall be turned, ground and polished constructed of 18-8 stainless steel and designed for both torsional and shearing stresses when the valve is operated under its greatest dynamic or seating torque. Shaft shall be of either a one-piece unit extending full size through the valve disc and valve bearing or it may be of a stub shaft design.

In general, the butterfly valve actuators shall conform to the requirements of AWWA standard specifications for "Rubber Seated Butterfly Valves, Designation C504", insofar as applicable.

All valves shall open left or counter clockwise.

## **50.10 Air Release Valves**

Air release valves are not to be installed on the potable water system without written approval from the DIRECTOR.

## **50.11 Fire Hydrants**

### **50.11.1 General**

Fire hydrants shall have a minimum five-and-a-quarter (5-1/4) inch valve opening and shall comply with AWWA Standard C502 for fire hydrants for water works service, unless in conflict with this MANUAL, in which case this MANUAL shall apply.

Each hydrant shall have six (6) inch mechanical joint ends and shall open by turning to the left (counter-clockwise). Fire hydrants shall be of ample length for bury of thirty-six (36) inches, to match main installation.

Hydrants shall be provided with two (2), two-and-a-half (2-1/2) inch hose nozzles and one (1), four-and-a-half (4-1/2) inch pumper nozzle, all having National Standard hose threads. Nozzles shall have caps attached by chains. Operating nuts shall be AWWA Standard pentagonal, measuring one-and-a-half (1-1/2) inch point to flat. Fire

hydrants shall be equipped with O-ring packing. Fire hydrants shall be supplied without drain holes or with permanently plugged drain holes.

50.11.2 Installation

Hydrants shall be plumb and shall be set so that the lowest hose connection is between eighteen (18) and twenty-four (24) inches above the surrounding finished ground elevation.

All hydrants shall be inspected in the field upon delivery to the job to insure proper operation before installation. The resetting, moving, and reconnecting of existing hydrants shall be handled in a manner similar to a new installation. Hydrant shall be constructed in accordance with the STANDARD DETAILS.

50.11.3 Location

Fire hydrants shall be located in the general location as shown on the DRAWINGS. Final field location of all hydrants shall be as approved by the CITY. All hydrants shall be located no less than four (4) and no more than eighteen (18) feet from the edge of pavement of the adjacent roadway and no less than four (4) feet from any physical feature which may obstruct access or view of any hydrant unless otherwise approved by the CITY.

50.11.4 Identification

All hydrants ports and bonnets within the CITY shall be color coded so as to comply with NFPA 291. Fire hydrant colors shall be as indicated on the following chart.

**Fire Hydrant Color Flow Chart**

Rating	Color	Federal Standard 595B		Flow in Gallons
		Description No.	RGB Hex Code	Per Minute (GPM)
Class AA	Blue	FS 25095	2758B5	1,500 or Greater
Class A	Green	FS 14115	006845	1,000 to 1,499
Class B	Orange	FS 32473	EF6C00	500 to 999
Class C	Red	FS 31302	D32200	499 or Less

The flow rate shall be determined by the CITY'S Fire Department.

A traffic rated blue reflective pavement marker (RPM) shall be properly installed by the CONTRACTOR on the center line of the adjacent roadway that the main port faces so that the hydrant can be found at

night from either direction of travel.

#### 50.11.5 Coating and Painting

All iron parts of the hydrant shall be painted by the CONTRACTOR in accordance with AWWA C502. All inside surfaces and the outside surfaces below the finished ground elevation shall be coated with bituminous paint. They shall be covered with two coats, the first having dried thoroughly before the second is applied.

The outside of the hydrant above the finished ground elevation shall be thoroughly cleaned and thereafter painted by the CONTRACTOR with the following method:

1. Surface Preparation: Remove all dirt, oil, grease and contaminants by high pressure cleaning (min. 2500 psi) or Solvent Cleaning (SPI). Remove all rust and all existing coatings by abrasive blast cleaning.
2. Prime Coat: Modified Polyamidoamine Epoxy system having minimum volume solids of  $84.0 \pm 2\%$ . Apply to a thickness of 3.0-5.0 mils DFT or Polyimide Epoxy system having a minimum solids volume of  $65.0 \pm 2\%$ . Apply to a thickness of 4.0-6.0 mils DFT.
  - A. Products: TNEMEC Series 135 Chembuild; Color 1243 (Aluminum), Products: TNEMEC Series N27 S.T. Typoxy; Color 1243 (Aluminum), or equal.
3. Intermediate Coat: Polyamide Epoxy System having minimum volume solids of  $56.0 \pm 2\%$ . Apply to a thickness of 2.0-4.0 mils DFT. Products: TNEMEC Series 66 High Build Epoxoline; Color WH01 (White), or equal.
4. Top Coat: Aliphatic Acrylic Polyurethane having minimum volume solids of  $58.0 \pm 2\%$ . Apply to a thickness of at least 2.0-4.0 mils DFT.
  - A. Products: TNEMEC Series 73 Endura Shield; Color Hydrant Body, Safety Red (SC09), Hydrant Bonnet and Caps to match in color – either Safety Blue (SC06) or Safety Green (SC07) as directed by CITY Fire Department.

#### 50.12 Valve Boxes

Mains less than six (6) feet in depth shall have cast-iron, three-piece valve boxes. Valve boxes shall be provided with suitable heavy bonnets and shall extend to such elevation at or slightly above the finished grade surface as



directed by the CITY. The barrel shall be screw type only, having a five-and-a-quarter (5-1/4) inch shaft. The upper section shall have a flange at the bottom having sufficient bearing area to prevent settling and shall be complete with cast-iron covers. Covers shall have "WATER" cast into the top for all water mains.

An operating nut extension box shall be used for mains with an operating nut six (6) feet below finished grade. Valve boxes shall be one complete assembled unit composed of the valve box and extension stem. All moving parts of the extension stem shall be enclosed in a housing to prevent contact with the soil. Valve box assembly shall be adjustable to accommodate variable trench depths six (6) foot and greater.

The stem assembly shall be of a telescoping design that allows for variable adjustment length. The material shall be galvanized square steel tubing. The stem assembly shall have a built-in device that prevents the stem assembly from disengaging at its fully extended length. The extension stem must be capable of surviving a torque test to one-thousand (1,000) ft-lb without failure.

Each valve collar shall utilize a test station box made into the valve collar for placement of locating wire as shown in the STANDARD DETAILS.

END OF SECTION

**Section 51 - Installation**

**51.1 General**

Pipe shall be installed in accordance with the manufacturer's specifications and instructions for the type of pipe used and applicable AWWA standards, such as C600 and C605, unless otherwise stated in these specifications.

**51.2 Pipe Handling**

All types of pipe shall be handled in such a manner as to prevent damage to the pipe or coating. Accidental damage to pipe or coating shall be repaired to the satisfaction of the CITY or be removed from the job. When not being handled, the pipe shall be supported on timber cradles or on properly prepared ground, graded to eliminate all rock points and to provide uniform support along the full length. When being transported, the pipe shall be supported at all times in a manner which will not permit distortion or damage to the lining or coating. Any unit of pipe that is damaged beyond repair by the CONTRACTOR, in the judgment of the CITY, shall be removed from the work site and replaced with another unit.

Joint gaskets shall be stored in a clean, dark, and dry location until immediately before use.

Dirt or other foreign material shall be prevented from entering the pipe or pipe joint during handling or laying operations. Any pipe or fitting that has been installed with dirt or foreign material in it shall be removed, cleaned, and re-laid. At times when pipe laying is not in progress, the open ends of the pipe shall be closed by a water-tight plug or by other means approved by the CITY to ensure absolute cleanliness inside the pipe.

**51.3 Water Main Separation Requirements**

**51.3.1 General**

The table below meets separation requirements as described by FDEP in the Florida Administrative Code (FAC). These requirements shall apply between newly proposed utility lines and existing or proposed utility lines.

All separation distances are from outside-of-pipe-to-outside-of-pipe.

PROPOSED UTILITY	HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS									
	POTABLE WATER		RECLAIMED WATER*		SANITARY SEWER FORCE MAIN		SANITARY SEWER GRAVITY MAIN		STORM SEWER	
	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.
POTABLE WATER	-	-	3'	12"	6'	12"	6'	6" ABOVE 12" BELOW	3'	6"
RECLAIMED* WATER	3'	12"	-	-	3'	12"	3'	12"	-	-
SANITARY SEWER FORCE MAIN	6'	12"	3'	12"	-	-	-	-	-	-
SANITARY SEWER GRAVITY MAIN	6'	6" ABOVE 12" BELOW	3'	12"	-	-	-	-	-	-

51.3.2 Horizontal Variances Sanitary Sewer

Any horizontal variance shall require the prior approval of the CITY.

If horizontal separation is not attainable for new installations of potable water and sanitary sewer, the pipes will be installed in separate trenches. The bottom of the potable water main shall be at a minimum twelve (12) inches higher than the top of the sanitary sewer while still maintaining the required cover. This type of case shall require the sanitary sewer main, whether gravity or force main, to be upgraded to DR eighteen (18).

51.3.3 Vertical Variances Sanitary Sewer

Any vertical variance shall require the prior approval of the CITY.

Where installation of a new potable water main is in conflict with existing sanitary sewer it is preferred that the water main cross twelve (12) inches above the sanitary sewer with sufficient coverage. If this is not possible the water main may cross twelve (12) inches below the sanitary sewer and shall be upgraded to ductile iron pipe and centered at crossing.

51.3.4 Structures

No water main or service shall pass through or come in contact with any part of a sanitary sewer or storm water manhole or structure.

**51.4 Trench Preparation and Pipe Bedding**

51.4.1 Trench Preparation and Pipe Bedding

Applicable provisions of Section 32, of this MANUAL and the STANDARD DETAILS shall apply.

#### 51.4.2 Pipe Preparation and Handling

All pipe and fittings shall be inspected prior to lowering into the trench to insure no cracked, broken, or otherwise defective materials are being used. CONTRACTOR shall clean ends of pipe thoroughly and remove foreign matter and dirt from inside of the pipe and keep clean during and after laying.

CONTRACTOR shall use proper implements, tools, and facilities for the safe and proper protection of the WORK. CONTRACTOR shall lower pipe into the trench in such a manner as to avoid any physical damage to the pipe and shall remove all damaged pipe from the job-site. Care shall be taken to not drop or dump pipe into trenches under any circumstances.

#### 51.4.3 Trench De-Watering and Drainage Control

Specifications from Section 32, of this MANUAL shall apply. CONTRACTOR shall prevent water from entering the trench during excavation and pipe laying operations to the extent required to properly grade the bottom of the trench and allow for proper compaction of the backfill. Pipe shall not be laid in water.

#### 51.4.4 Survey Line and Grade

Pipe shall be laid to the lines and grades shown on the PLANS. The CONTRACTOR shall provide line and grade stakes at a one-hundred (100) foot maximum spacing and at all line and/or grade change locations. CONTRACTOR shall provide temporary bench marks (TBM's) at maximum one-thousand (1000) foot intervals.

The minimum ground cover shall be three (3) feet from the finished grade surface or three (3) feet below the elevation of the edge of pavement of the road surface, whichever is greater. The minimum cover under roadways shall be thirty (30) inches.

#### 51.4.5 Pipe Laying in Trench

CONTRACTOR shall prevent foreign material from entering the pipe while it is being placed in the trench. CONTRACTOR shall remove all foreign material from the pipe or joint ring before the next pipe is placed. If the pipe laying crew cannot put the pipe into the trench and in place without getting earth into the pipe, the CITY may require that snugly-fitted and tightly-woven canvas bags be placed over each end

before lowering the pipe. The bags shall be left in place until the connection is to be made to the adjacent pipe. During laying operations, CONTRACTOR shall keep debris, tools, clothing, or other materials out of the pipe.

#### 51.4.6 Laying Polyvinyl Chloride (PVC) Pipe

All PVC pipe shall be installed in accordance with standards set forth in the UNI-BELL "Handbook of PVC Pipe Design and Construction" unless such standards conflict with this MANUAL, in which case this MANUAL shall govern.

#### 51.4.7 Laying Ductile Iron Pipe

All ductile iron pipe shall be installed in accordance with AWWA C600 unless such standards conflicts with this MANUAL in which case this MANUAL shall govern. CONTRACTOR shall cut pipe only as necessary to comply with alignment shown on the PLANS. Torch cutting of pipe shall not be allowed.

The CONTRACTOR shall provide special tools and devices, such as special jacks, chokers, and similar items required for proper installation. Lubricant for the pipe gaskets shall be furnished by the pipe manufacturer with no substitutes to be permitted under any circumstances.

The pipe shall be polyethylene encased (8 mil) where shown on the DRAWINGS in accordance with ANSI/AWWA A21.51/C105.

#### 51.4.8 Laying of Pipes on Curves

Long radius curves, either horizontal or vertical, may be laid with standard pipe by deflections at the joints. Maximum deflections at pipe joints and laying radius for the various pipe lengths shall be no greater than seventy-five percent (75%) of that recommended by the pipe manufacturer.

#### 51.4.9 Pipe Restraining

Requirements specified in Section 35, of this MANUAL shall apply.

#### 51.4.10 Backfill for Pipes

Requirements specified in Section 32, of this MANUAL shall apply.

### **51.5 Notification and Connection to Existing Mains**

No connection shall be made to the existing CITY system without first obtaining

FDEP permit. Notification of connection to the existing CITY system shall not occur without prior notification to the CITY.

The CITY shall be notified at least three (3) days in advance to schedule main connections and valve operations. The water, wastewater, and reclaimed water valves are to be operated only by the CITY. All valves installed are to remain closed during construction.

The CONTRACTOR shall exercise extreme caution when excavating in proximity of CITY utilities. Utility locations shown on plans are not exact or guaranteed. The CONTRACTOR is responsible for field verifying existing utility locations both horizontally and vertically.

The CITY dispatch operator shall be notified immediately in the event of a force main, water main, or reclaimed water main break or damage at 407-703-1757. The CONTRACTOR shall immediately repair all damage to CITY mains, at the CONTRACTOR'S expense. If the repair is not made in a timely manner, as determined by the CITY, the CITY may perform the repairs and the CONTRACTOR will be charged for the repairs.

#### **51.6 Water Service Piping and Connections**

Water service piping and connection shall be installed as indicated in the STANDARD DETAILS. The location of all service lines shall be as shown on the DRAWINGS and shall be either single or dual service. On curbed streets, the exact location for each installed service shall be marked by etching or cutting a "W" for water and painting that location blue. Where no curb exists, locations shall be adequately marked by a method approved by the CITY.

#### **51.7 Location and Identification**

All lettering on the pipe and material shall be legible and the color, "blue", shall be correct for the intended use.

END OF SECTION

## Section 52 – Testing

### 52.1 Hydrostatic Tests

#### 52.1.1 General

Hydrostatic tests shall consist of pressure and leakage tests. Hydrostatic tests shall be conducted on all newly laid pressure pipes, joints, and valves including all service lines to the curb stops. Air testing of pressure pipes will not be permitted under any circumstance. Tests may be made on sections not exceeding two-thousand (2000) feet when acceptable to the CITY.

The CONTRACTOR shall furnish all necessary equipment and material, make all taps, and furnish all closure pieces in the pipe as required. Equipment to be furnished by the CONTRACTOR shall include graduated containers, pressure gauges, hydraulic force pumps, and suitable hoses and piping. The CITY will monitor and approve a satisfactory test.

The CONTRACTOR may conduct hydrostatic tests after the trench has been partially backfilled with the joints left exposed, for informational purposes only.

The hydrostatic tests for acceptance shall be conducted only after the trenches have been completely backfilled and compacted as specified. Where any section of pipe is provided with concrete thrust blocking, pressure test will not be made until at least five (5) days have elapsed after the thrust blocking is installed.

If high-early strength concrete is used for the concrete thrust blocking, the time may be reduced to twenty-four (24) hours if the CITY concurs that the concrete has cured and reached adequate strength. Mechanically restrained joints are required.

#### 52.1.2 Testing Criteria

All pipe sections to be pressure tested shall be subjected to a hydrostatic pressure of one-hundred-fifty (150) psi. The duration of each pressure test shall be for a period of two (2) hours. If during the test, the integrity of the tested line is in question, the CITY may require a six (6) hour pressure test. The basic provisions of AWWA C-600 shall be applicable.

### 52.1.3 Procedure for Pressure Test

Each section of pipe to be tested, as determined by the CITY, shall be slowly filled with water through the required jumper connection and the specified test pressure shall be applied by means of a pump connected to the pipe in a satisfactory manner. Before applying the specified test pressure, all air shall be expelled from the pipe. To accomplish this, taps shall be made and appropriate valves installed to ensure bleeding of all air from the main.

If defective pipes, fittings, valves, or hydrants are discovered in consequence of this pressure test, all such items shall be removed and replaced by the CONTRACTOR with sound material and the test shall be repeated until satisfactory results are obtained. Provisions of AWWA C600, where applicable, shall apply.

### 52.1.4 Procedure for Ductile Iron Leakage Test

After completion of the pressure test, a leakage test shall be conducted to determine the quantity of water lost by leakage under the specified test pressure. Applicable provisions of AWWA C600 Section 5, shall apply.

Allowable leakage in gallons per hour for pipeline shall not be greater than that determined by the formula:

$$L = \frac{SD \sqrt{P}}{148,000}$$

Note: L = Allowable leakage in gallons per hour  
S = Length of pipe tested in feet  
D = Diameter of pipe in inches  
P = Average test pressure, in psig

Leakage is defined as the quantity of water to be supplied in the newly laid pipe or any valved section under test, which is necessary to maintain the specified leakage test pressure after the pipe has been filled with water and the air expelled.

Should any test of pipe laid disclose leakage greater than that allowed, CONTRACTOR shall locate, replace and/or repair the defective joints, pipe, or valve until the leakage from subsequent testing is within the specified allowance.



### 52.1.5 Procedure for PVC Leakage Test

After completion of the pressure test, a leakage test shall be conducted to determine the quantity of water lost by leakage under the specified test pressure. Applicable provisions of AWWA C605 Section 7, shall apply.

Allowable leakage in gallons per hour for pipeline shall not be greater than that determined by the formula:

$$Q = \frac{LD \sqrt{P}}{148,000}$$

Note: Q = Allowable leakage in gallons per hour  
L = Length of pipe being tested in feet  
D = Diameter of pipe in inches  
P = Average test pressure, in psig

Leakage is defined as the quantity of water to be supplied in the newly laid pipe or any valved section under test, which is necessary to maintain the specified leakage test pressure after the pipe has been filled with water and the air expelled.

Should any test of pipe laid disclose leakage greater than that allowed, CONTRACTOR shall locate, replace and/or repair the defective joints, pipe, or valve until the leakage from subsequent testing is within the specified allowance.

### 52.1.6 Procedure for HDPE Testing

After installation the pipe shall be tested in accordance with Section 52 and 62, of this Manual, with the following modifications:

1. Test Duration: The total test time including initial pressurization, initial expansion and time at test pressure, must not exceed eight (8) hours. If the test is not completed due to leakage, equipment failure, etc., the test section shall be depressurized and allowed to “relax” for a minimum of eight (8) hours before it is brought back up to test pressure. The test procedure consists of initial expansion phase and leakage test phase.
2. Initial Expansion Phase: During the initial expansion phase, the test section is pressured to the test pressure, and enough make-up liquid is added each hour for three (3) hours to return to test pressure.

3. Leakage Test Phase: The leakage test phase follows immediately and shall be either two (2) or three (3) hours in duration. At the end of the time test, the test section shall be returned to test pressure by adding a measured amount of liquid. The amount of make-up liquid added shall not exceed the following values plus allowable leakage:

**Allowable Leakage Test**

Test Duration (hours)	Pipe Diameter (inches)							
	2	4	6	8	12	16	20	24
	Allowance / 100 feet of Pipeline (gallons)							
2	0.11	0.25	0.60	1.00	2.30	3.30	5.50	8.90
3	0.19	0.40	0.90	1.50	3.40	5.50	8.00	13.30

*\*Applies to test period and not initial expansion phase*

**52.2 Disinfection of Water Mains**

52.2.1 General

Before being placed in service, all new water mains shall be chlorinated in accordance with the specifications below and the procedures outlined in AWWA C-651 "Standard Procedure for Disinfecting Water Mains". All provisions of the Florida Department of Environmental Protection permit shall be complied with.

52.2.2 Flushing

Sections of pipe to be disinfected shall first be flushed (full diameter) to remove any solids or contaminated material that may have become lodged in the pipe. If no hydrant is installed at the end of the main, then a blow-off valve shall be provided large enough to develop a velocity of at least two-and-a half (2-1/2) feet per second in the main.

All taps required for chlorinating, flushing, or for temporary or permanent release of air shall be provided for by the CONTRACTOR as a part of the construction of water mains. After the disinfection, all such taps shall be sealed to the satisfaction of the CITY.

52.2.3 Disinfection Criteria

Before being placed into service, all new mains and repaired portions of, or extensions to initial chlorine residual is not less than fifty (50) mg/l and that a chlorine residual of not less than twenty-five (25) mg/l remains in the water after standing twenty-four (24) hours in the pipe.

#### 52.2.4 Form of Applied Chlorine

Chlorine may be applied as a liquid chlorine (gas-water mixture), or a mixture of water and high-test calcium hydrochloride.

CONTRACTOR shall assume responsibility for safe handling of chlorine and shall meet requirements of OSHA and other regulatory agencies for safe handling of chlorine.

#### 52.2.5 Point of Application

The preferred point of application of the chlorinating agent is at the beginning of the pipe line extension or any valved section of it, and through a corporation stop inserted in the pipe. The water injector for delivering the chlorine-bearing water into the pipe should be supplied from a tap made on the pressure side of the gate valve controlling the flow into the pipe line extension. Alternate points of applications may be used when approved or directed by the CITY.

#### 52.2.6 Operation of City Valves

Valves shall be manipulated by the CITY personnel so that the strong chlorine solution in the line being treated will not flow back into the line supplying the water.

#### 52.2.7 Retention Period

Treated water shall be retained in the pipe at least twenty-four (24) hours. After this period, the chlorine residual at pipe extremities and at other representative points shall be at least twenty-five (25) mg/l.

#### 52.2.8 Chlorinating Valves and Hydrants

In the process of chlorinating newly laid pipe, all valves or other appurtenances shall be operated while the pipe line is filled with the chlorinating agent and under normal operating pressure.

#### 52.2.9 Final Flushing and Testing

Following chlorination, all treated water shall be thoroughly flushed from the newly laid pipe at its extremity until the replacement water throughout its lengths shows upon test, a free chlorine residual not in excess of that normally carried in the system.

After flushing, water samples collected on two (2) consecutive days from the treated piping system, as directed by the CITY, shall show acceptable bacteriological results.

All bacteriological testing shall be the responsibility of the CONTRACTOR. Bacteriological analysis shall be performed by a laboratory certified by the State of Florida with copies of all results provided to the CITY.

Proper chain of custody procedures must be followed and samples shall only be collected by certified laboratory personnel in the presence of CITY personnel.

Copies of testing results and all related correspondence with the FDEP shall be submitted to the CITY. The DEVELOPER'S ENGINEER shall submit a request for system clearance to FDEP after approval by the CITY.

Sampling points shall be as stipulated on the FDEP permit.

#### 52.2.10 Repetition of Flushing and Testing

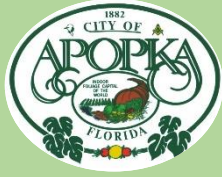
Should the initial treatment result in an unsatisfactory bacterial test, the original chlorination procedure shall be repeated by the CONTRACTOR until satisfactory results are obtained.

END OF SECTION

**Backup material for agenda item:**

9. Ordinance 2493 – First Reading – Change of Zoning - Quasi-Judicial

David Moon



# CITY OF APOPKA CITY COUNCIL

- CONSENT AGENDA
- PUBLIC HEARING
- SPECIAL REPORTS
- OTHER: Ordinance

MEETING OF: April 20, 2016  
 FROM: Community Development  
 EXHIBITS: Zoning Report  
 Vicinity Map  
 Adjacent Zoning Map  
 Adjacent Uses Map  
 Existing Uses  
 Ordinance No. 2493

**SUBJECT: ORDINANCE NO. 2493 – CHANGE OF ZONING – LITTLE BROWNIE PROPERTIES, INC.**

**REQUEST: FIRST READING OF ORDINANCE NO. 2493 – CHANGE OF ZONING – LITTLE BROWNIE PROPERTIES, INC., FROM “COUNTY” IND-2/IND-3 (ZIP) TO “CITY” I-1 (RESTRICTED INDUSTRIAL); (PARCEL I.D. NOS. 15-21-28-0000-00-077 & 15-21-28-0000-00-078); AND HOLD OVER FOR SECOND READING AND ADOPTION.**

**SUMMARY:**

OWNER/APPLICANT: Little Brownie Properties, Inc.  
 LOCATION: 532 E 13<sup>th</sup> Street  
 EXISTING USE: Vacant  
 FLUM DESIGNATION: Industrial  
 CURRENT ZONING: “County” IND-2/IND-3 (ZIP)  
 PROPOSED DEVELOPMENT: Light industrial development/wholesale warehousing  
 TRACT SIZE: 17.47 +/- acres  
 MAXIMUM ALLOWABLE DEVELOPMENT: EXISTING: 380,496 sq. ft.  
 PROPOSED: 456,595 sq. ft.

**FUNDING SOURCE: N/A**

**DISTRIBUTION**

Mayor Kilsheimer	Finance Director	Public Services Director
Commissioners	HR Director	Recreation Director
City Administrator	IT Director	City Clerk
Community Development Director	Police Chief	Fire Chief

**ADDITIONAL COMMENTS:** Presently, the subject property has not yet been assigned a “City” zoning category. Applicant is requesting the City to assign a zoning classification of I-1 (Restricted Industrial) to the property. The subject property was annexed into the City of Apopka on January 20, 2010, through the adoption of Ordinance No. 2143. The proposed change of zoning is being requested by the owner/applicant.

A request to assign a change of zoning to I-1 (Restricted Industrial) is compatible to the adjacent zoning classifications and with the general character of abutting properties and surrounding area. The property owner is requesting the I-1 (Restricted Industrial) zoning classification to accommodate the use of the property for light industrial/wholesale warehousing. This use is consistent with the existing future land use, proposed zoning district and compatible with the general character of surrounding zoning and uses.

The change of zoning application covers approximately 17.47 acres.

In conjunction with state requirements, staff has analyzed the proposed amendment and determined that adequate public facilities exist to support this land use change (see attached Zoning Report).

**COMPREHENSIVE PLAN COMPLIANCE:** The existing and proposed use of the property is consistent with the Industrial (max 0.60 FAR) Future Land Use designation and the City’s proposed I-1 (Restricted Industrial) Zoning classification. Site development cannot exceed the intensity allowed by the Future Land Use policies. Based on the adjacent road system and nearby residential neighborhoods, I-1 (Restricted Industrial) Industrial is more suitable and compatible than I-2 Industrial zoning.

**SCHOOL CAPACITY REPORT:** The proposed rezoning is to a non-residential zoning district and, therefore, a capacity enhancement agreement with OCPS is not necessary.

**ORANGE COUNTY NOTIFICATION:** The JPA requires the City to notify the County 30 days before any public hearing or advisory board. The City properly notified Orange County on February 5, 2016

**PUBLIC HEARING SCHEDULE:**

March 8, 2016 - Planning Commission (5:30 pm)  
April 20, 2016 - City Council (7:00 pm) - 1st Reading  
May 4, 2016 – City Council (1:30 pm) - 2nd Reading

**DULY ADVERTISED:**

February 19, 2016 – Public Notice and Notification  
April 8, 2016 – Ordinance Heading ¼ Page w/Map Ad

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**RECOMMENDATION ACTION:**

The **Development Review Committee** finds the proposed amendment consistent with the Comprehensive Plan and compatible with the character of the surrounding area, and recommends approval of the change in zoning from “County” IND-2/IND-3 (ZIP) to “City” I-1 (Restricted Industrial) for the property owned by Little Brownie Properties, Inc., located at 532 E 13<sup>th</sup> Street.

The **Planning Commission**, at its meeting on March 8, 2016, found the rezoning to be consistent with the Land Development Code and Comprehensive Plan and recommended approval (7-0) of the change in zoning from “County” IND-2/IND-3 (ZIP) to “City” I-1 (Restricted Industrial) for the property owned by Little Brownie Properties, Inc., located at 532 E 13<sup>th</sup> Street.

Accept the First Reading of Ordinance No. 2493 and Hold it Over for Second Reading and Adoption on May 4, 2016.

**Note: This item is considered Quasi-Judicial. The staff report and its findings are to be incorporated into and made a part of the minutes of this meeting.**



**ZONING REPORT**

**RELATIONSHIP TO ADJACENT PROPERTIES:**

Direction	Future Land Use	Zoning	Present Use
North (County)	Low Density Residential (0-4 du/ac)	R-1	R-O-W & Vacant Residential
East (City)	Industrial (max 0.60 FAR)	I-1	Warehousing
South (City)	Industrial (max 0.60 FAR) Residential Medium (0-10 du/ac) Residential Low (0-5 du/ac)	I-1 R-2 R-1	Vacant Industrial Vacant Residential Single-Family Residential
West (City)	Residential Medium (0-10 du/ac)	R-1AA	Vacant

**LAND USE & TRAFFIC  
 COMPATIBILITY:**

The subject property fronts and is accessed by a local roadway (E 13<sup>th</sup> Street).

**COMPREHENSIVE  
 PLAN COMPLIANCE:**

The proposed I-1 (Restricted Industrial) zoning is consistent with the City’s Industrial (max 0.60 FAR) Future Land Use designation and with the character of the surrounding area and future proposed development. The I-1 (Restricted Industrial) zoning classification is one of the acceptable zoning categories allowed within the Industrial Future Land Use Designation. Development Plans shall not exceed the density allowed in the adopted Future Land Use Designation.

**I-1 DISTRICT  
 REQUIREMENTS:**

Minimum Living Area:	NA
Minimum Site Area:	15,000 sq. ft.
Minimum Lot Width	100 ft.
Setbacks:	Front: 25 ft.
	Rear: 10 ft. (30 ft. to residential)
	Side: 10 ft.
	Corner 25 ft.

Based on the above zoning standards, the subject parcels comply with code requirements for the I-1 (Restricted Industrial) district.

**BUFFERYARD  
 REQUIREMENTS:**

1. Areas adjacent to all road rights-of-way shall provide a minimum 25-foot landscaped bufferyard.
2. Areas adjacent to agricultural uses or districts shall provide a minimum of ten feet abutting the property line with landscaping and a six-foot-high masonry wall.
3. Areas adjacent to residential uses or districts shall provide a six-foot-high masonry wall within a minimum of 50-foot landscaped bufferyard.

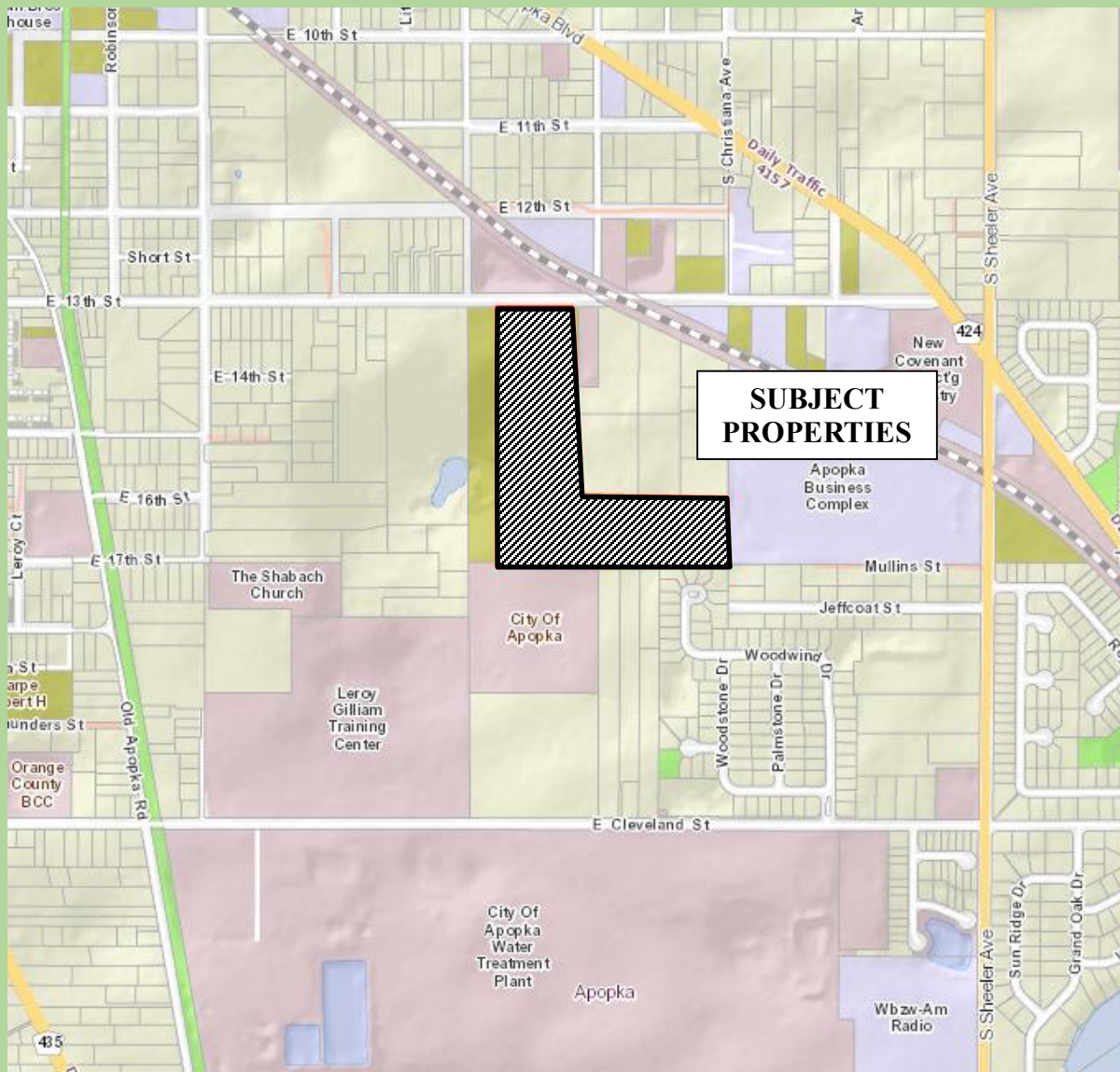
4. Industrial uses adjacent to nonresidential, nonindustrial uses or districts shall provide one of the following:
  - a. A minimum of 25 feet abutting the property with landscaping and an earth berm, measuring three feet with a 3:1 slope; or
  - b. A minimum six-foot-high masonry wall within a minimum of ten-foot landscaped bufferyard.

**ALLOWABLE  
USES:**

Any C-3 Commercial District permitted use and wholesale distribution, storage and light manufacturing, including: manufacture and processing of novelties, bakery and confectionary products, garments, scientific, electrical, instruments or equipment. Bus, cab and truck repair. Dyeing, dry cleaning and laundering. Machinery sales and machine shops. Cold storage and frozen food lockers. All other uses not prohibited, and similar and compatible to those within the I-1 Restricted Industrial Zoning District.

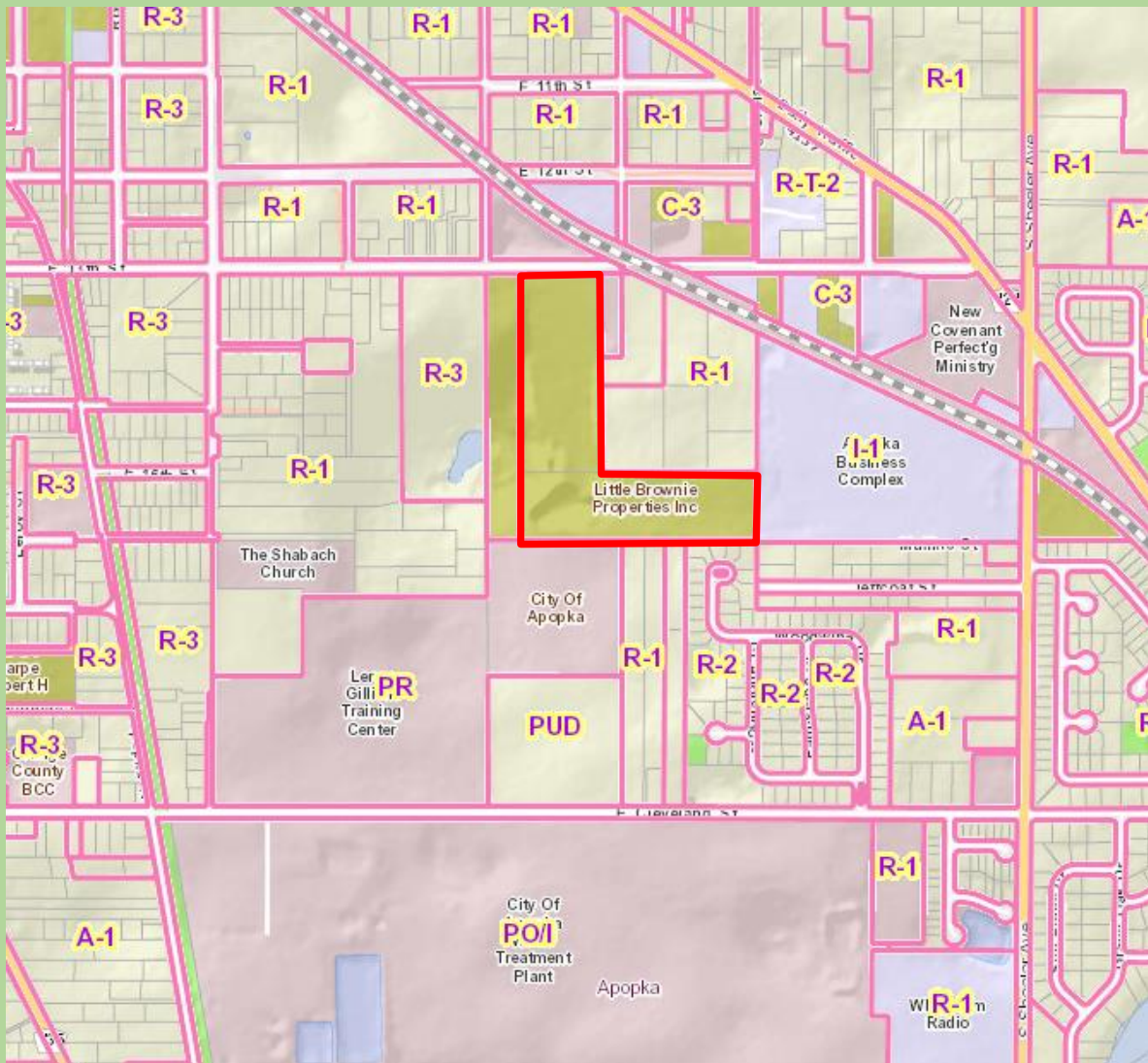
**Little Brownie Properties, Inc.**  
**532 E 13<sup>th</sup> Street**  
**17.47 +/- Acres**  
**Existing Maximum Allowable Development: 380,496 sq. ft.**  
**Proposed Maximum Allowable Development: 456,595 sq. ft.**  
**Proposed Zoning Change**  
**From: “County” IND-2/IND-3 (ZIP)**  
**To: “City” I-1 (Restricted Industrial)**  
**Parcel ID #: 15-21-28-0000-00-077 & 15-21-28-0000-00-078**

**VICINITY MAP**



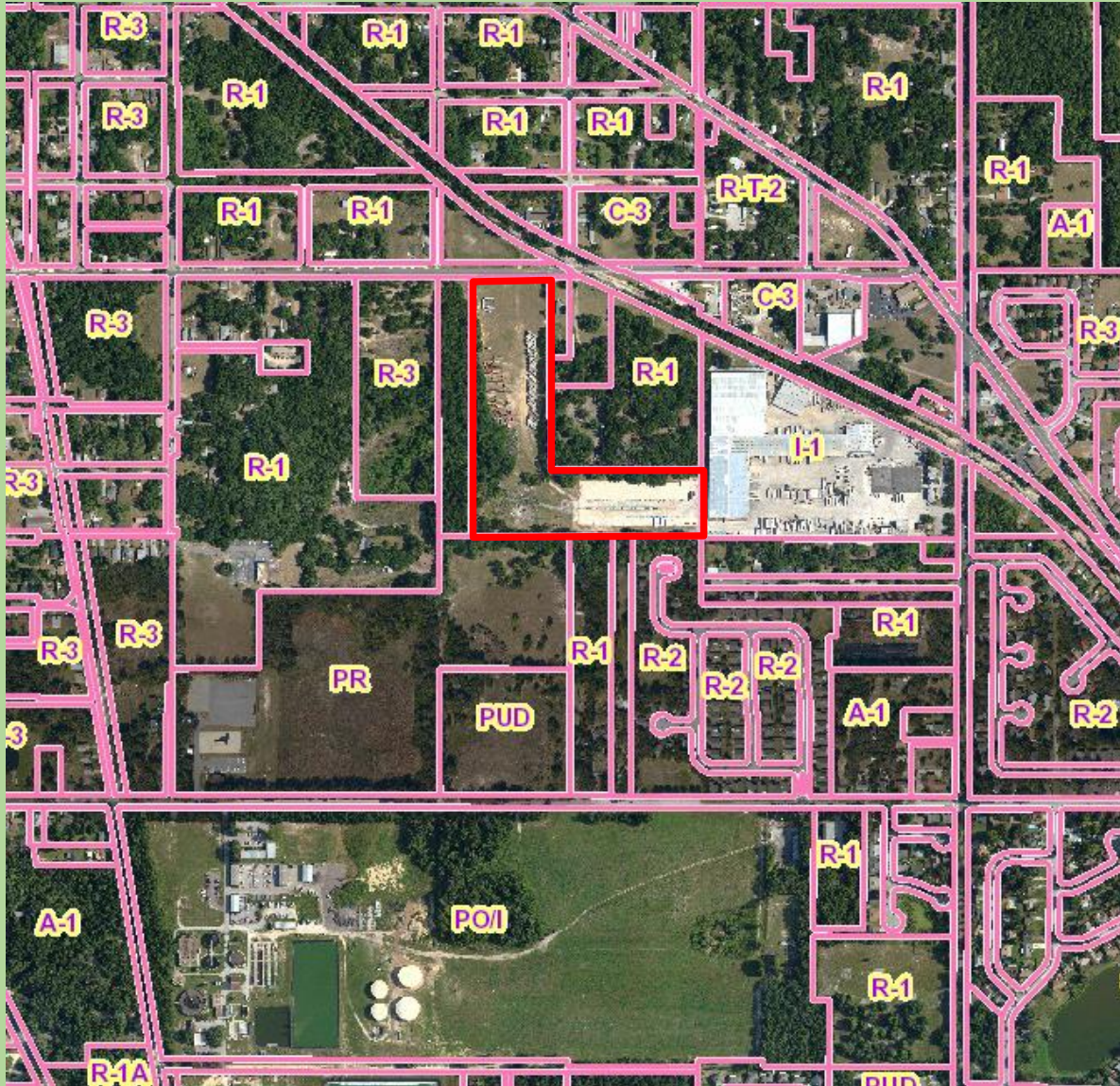


### ADJACENT ZONING



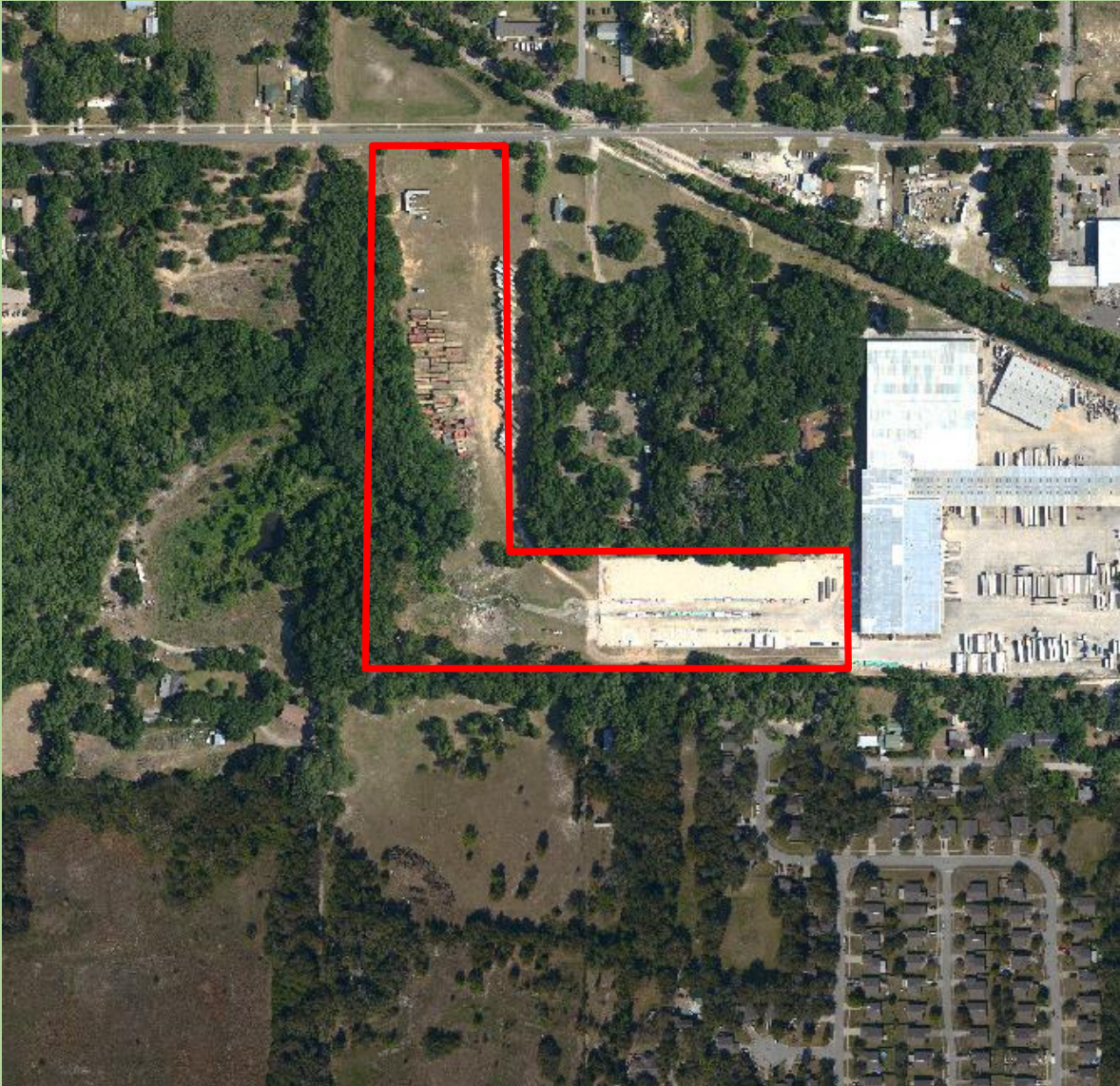


ADJACENT USES





**EXISTING USES**



**ORDINANCE NO. 2493**

**AN ORDINANCE OF THE CITY OF APOPKA, FLORIDA, CHANGING THE ZONING FROM “COUNTY” IND-2 (ZIP) AND IND-3 (ZIP) TO “CITY” I-1 (RESTRICTED INDUSTRIAL) FOR CERTAIN REAL PROPERTY GENERALLY LOCATED SOUTH OF EAST 13<sup>TH</sup> STREET, WEST OF SHEELER AVENUE, COMPRISING 17.49 ACRES MORE OR LESS, AND OWNED BY LITTLE BROWNIE PROPERTIES, INC.; PROVIDING FOR DIRECTIONS TO THE COMMUNITY DEVELOPMENT DIRECTOR, SEVERABILITY, CONFLICTS, AND AN EFFECTIVE DATE.**

**WHEREAS**, to manage the growth, the City of Apopka, Florida, finds it in the best interest of the public health, safety and welfare of its citizens to establish zoning classifications within the City; and

**WHEREAS**, the City of Apopka has requested a change in zoning on said property as identified in Section I of this ordinance; and

**WHEREAS**, the proposed I-1 (Restricted Industrial) zoning has been found to be consistent with the City of Apopka Comprehensive Plan, and the City of Apopka Land Development Code.

**NOW THEREFORE, BE IT ORDAINED**, by the City Council of the City of Apopka, Florida, as follows:

**Section I.** That the zoning classification of the following described property, being situated in the City of Apopka, Florida, is hereby I-1 (Restricted Industrial), as defined in the Apopka Land Development Code.

Legal Description:

PARCEL 1: NW1/4 OF SE1/4 (LESS W1/8 & N3/4) OF SEC 15-21-28.  
Parcel ID No. 15-21-28-0000-00-077  
8.74 +/- acres

PARCEL 2: E 395.2 FT OF W 560.2 FT OF N3/4 OF NW1/4 OF SE1/4 (LESS N 30 FT FOR R/W) OF SEC 15-21-28  
Parcel ID No. 15-21-28-0000-00-078  
8.75 +/- acres

**Section II.** That the zoning classification is consistent with the Comprehensive Plan of the City of Apopka, Florida.

**Section III.** That the Community Development Director, or the Director’s designee, is hereby authorized to amend, alter, and implement the official zoning maps of the City of Apopka, Florida, to include said designation.

**ORDINANCE NO. 2493**

**PAGE 2**

**Section IV.** That if any section or portion of a section or subsection of this Ordinance proves to be invalid, unlawful, or unconstitutional, it shall not be held to invalidate or impair the validity, force or effect of any other section or portion of section or subsection or part of this ordinance.

**Section V.** That all ordinances or parts of ordinances in conflict herewith are hereby repealed.

**Section VI.** That this Ordinance shall take effect upon the date of adoption.

READ FIRST TIME: April 20, 2016

READ SECOND TIME  
AND ADOPTED: May 4, 2016

\_\_\_\_\_  
Joseph E. Kilsheimer, Mayor

ATTEST:

\_\_\_\_\_  
Linda Goff, City Clerk

DULY ADVERTISED: February 19, 2016  
April 8, 2016



**Backup material for agenda item:**

10. Ordinance 2494 – First Reading – Annexation

David Moon



# CITY OF APOPKA CITY COUNCIL

CONSENT AGENDA  
 PUBLIC HEARING  
 SPECIAL REPORTS  
 OTHER:

MEETING OF: April 20, 2016  
FROM: Community Development  
EXHIBITS: Exhibit "A" – Summary  
Ordinance No. 2494  
Vicinity Map

**SUBJECT: 2016 ANNEXATION – CYCLE NO. 2**

**REQUEST: FIRST READING OF ORDINANCE NO. 2494 – SBKP, LLC; AND HOLD OVER FOR SECOND READING & ADOPTION.**

**SUMMARY:**

OWNER: SBKP, LLC  
LOCATION: 312 Old Dixie Highway  
LAND USE: Refer to Exhibit "A"  
EXISTING USE: Refer to Exhibit "A"  
TRACT SIZE: 0.26 +/- acre

**ADDITIONAL COMMENTS:** The proposed annexation shall be on the basis of the existing County Future Land Use and Zoning Designations. The assignment of a City Future Land Use and Zoning designation will occur at a later date, and through action by the City Council.

**ORANGE COUNTY NOTIFICATION:** The JPA requires the City to notify the County 15 days prior to the first reading of any annexation ordinance. The City provided notification to the County on April 1, 2016.

**DULY ADVERTISED:**  
April 8, 2016 - 1/4 Page Public Hearing Advertisement  
April 15, 2016 - 1/4 Page Public Hearing Advertisement  
April 22, 2016 - Ordinance Headings Advertisement

**PUBLIC HEARING SCHEDULE:**  
April 20, 2016 (7:00 pm) - City Council 1<sup>st</sup> Reading  
May 4, 2016 (1:30 pm) - City Council 2<sup>nd</sup> Reading and Adoption

**FUNDING SOURCE: N/A**

**DISTRIBUTION**

Mayor Kilsheimer	Finance Director	Public Services Director
Commissioners	HR Director	Recreation Director
City Administrator	IT Director	City Clerk
Community Development Director	Police Chief	Fire Chief

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**RECOMMENDATION ACTION:**

The **Development Review Committee** recommends approval of the 2016 Annexation – Cycle No. 2

Accept the First Reading of Ordinance No. 2494, and Hold it Over for Second Reading and Adoption on May 4, 2016.

**EXHIBIT "A"**  
**CITY OF APOPKA**  
**2016 ANNEXATION CYCLE # 2**

**TOTAL ACRES: 15.3 +/-**  
**ANNEXATION ORDINANCE NO.: 2494 & 2495**

**Adopted this 4th day of May, 2016**

<b>ORD. NO.</b>	<b>ITEM NO.</b>	<b>OWNER'S NAME</b>	<b>LOCATION</b>	<b>PARCEL NUMBER</b>	<b>ACRES +/-</b>	<b>EXISTING USE</b>	<b>FUTURE LAND USE (COUNTY)</b>
2494	1	SBKP, LLC	312 OLD DIXIE HIGHWAY	09-21-28-7552-01-070	0.26	SFR (1)	LOW DENSITY RESIDENTIAL MAX. 4DU/AC
2495	2	JACK V. CRAVEY JOYCE A. CRAVEY	3815 PHILS LANE 3827 HIDEAWAY ROAD	24-20-27-0000-00-112 24-20-27-0000-00-056	13.35 <u>1.69</u> 15.04	VACANT LAND	RURAL 1DU/10ACRES/ AGRICULTURAL

g:\Shared\4020\PLANNING\_ZONING\Annexations\2016 Cycle 2 Spreadsheet

**ORDINANCE NO. 2494**

**AN ORDINANCE OF THE CITY OF APOPKA, FLORIDA, TO EXTEND ITS TERRITORIAL AND MUNICIPAL LIMITS TO ANNEX PURSUANT TO FLORIDA STATUTE 171.044 THE HEREINAFTER DESCRIBED LANDS SITUATED AND BEING IN ORANGE COUNTY, FLORIDA, OWNED BY SBKP, LLC LOCATED AT 312 OLD DIXIE HIGHWAY; PROVIDING FOR DIRECTIONS TO THE CITY CLERK, SEVERABILITY, CONFLICTS, AND AN EFFECTIVE DATE.**

WHEREAS, SBKP, LLC, owner thereof, has petitioned the City Council of the City of Apopka, Florida, to annex the property located at 312 Old Dixie Highway; and

WHEREAS, Florida Statute 171.044 of the General Laws of Florida provide that a municipal corporation may annex property into its corporate limits upon voluntary petition of the owners, by passing and adopting a non-emergency ordinance to annex said property; and

WHEREAS, the City Council of the City of Apopka, Florida is desirous of annexing and redefining the boundaries of the municipality to include the subject property pursuant to Florida Statute 171.044.

NOW, THEREFORE, BE IT ORDAINED by the City Council of the City of Apopka, Florida, as follows:

**SECTION I:** That the following described properties, being situated in Orange County, Florida, totaling **0.26 +/- acre**, and graphically depicted by the attached Exhibit "A", is hereby annexed into the City of Apopka, Florida, pursuant to the voluntary annexation provisions of Chapter 171.044, Florida Statutes, and other applicable laws:

Legal Descriptions:

ROBINSON & SAMUELS ADDITION TO APOPKA SECOND SECTION K/106 LOT 7  
& E1/2 LOT 8 BLK A. Parcel I.D. No.: 09-21-28-7552-01-070  
Containing 0.26+/- acre

**SECTION II:** That the corporate territorial limits of the City of Apopka, Florida, are hereby redefined to include said land herein described and annexed.

**SECTION III:** That the City Council will designate the land use classification and zoning category of these annexed lands in accordance with applicable City ordinances and State laws.

**SECTION IV:** That the land herein described and future inhabitants of the land herein described shall be liable for all debts and obligations and be subject to all species of taxation, laws, ordinances and regulations of the City.

**SECTION V:** That if any section or portion of a section or subsection of this Ordinance proves to be invalid, unlawful, or unconstitutional, it shall not be held to invalidate or impair the validity, force, or effect of any other section or portion of a section or subsection or part of this ordinance.

**ORDINANCE NO.: 2494**  
**PAGE 2**

SECTION VI: That all ordinances or parts of ordinances in conflict herewith are hereby repealed.

SECTION VII: That this ordinance shall take effect upon passage and adoption, thereafter the City Clerk is hereby directed to file this ordinance with the Clerk of the Circuit Court in and for Orange County, Florida; the Orange County Property Appraiser; and the Department of State of the State of Florida.

READ FIRST TIME: April 20, 2016

READ SECOND TIME  
AND ADOPTED: May 4, 2016

\_\_\_\_\_  
Joseph E. Kilsheimer, Mayor

ATTEST:

\_\_\_\_\_  
Linda Goff, City Clerk

DULY ADVERTISED FOR PUBLIC HEARING: April 8, 2016  
April 15, 2016  
April 22, 2016

**ANNEXATION**  
**SBKP, LLC**  
**312 OLD DIXIE HIGHWAY**



Exhibit "A"  
Ord. # 2494  
Parcel ID: 09-21-28-7552-01-070

Total Acres: 0.26 +/-

**VICINITY MAP**



**Backup material for agenda item:**

11. Ordinance 2495 – First Reading – Annexation

David Moon





# CITY OF APOPKA CITY COUNCIL

CONSENT AGENDA  
 PUBLIC HEARING  
 SPECIAL REPORTS  
 OTHER:

MEETING OF: April 20, 2016  
FROM: Community Development  
EXHIBITS: Exhibit "A" – Summary  
Ordinance No. 2495  
Vicinity Map

**SUBJECT: 2016 ANNEXATION – CYCLE NO. 2**

**REQUEST: FIRST READING OF ORDINANCE NO. 2495 – JACK V. CRAVEY AND JOYCE A. CRAVEY; AND HOLD OVER FOR SECOND READING & ADOPTION.**

**SUMMARY:**

OWNERS: JACK V. CRAVEY AND JOYCE A CRAVEY  
LOCATION: 3815 Phils Lane and 3827 Hideaway Road  
LAND USE: Refer to Exhibit "A"  
EXISTING USE: Refer to Exhibit "A"  
TRACT SIZE: 0.26 +/- acre

**ADDITIONAL COMMENTS:** The proposed annexation shall be on the basis of the existing County Future Land Use and Zoning Designations. The assignment of a City Future Land Use and Zoning designation will occur at a later date, and through action by the City Council.

**ORANGE COUNTY NOTIFICATION:** The JPA requires the City to notify the County 15 days prior to the first reading of any annexation ordinance. The City provided notification to the County on April 1, 2016.

**DULY ADVERTISED:**

April 8, 2016 - 1/4 Page Public Hearing Advertisement  
April 15, 2016 - 1/4 Page Public Hearing Advertisement  
April 22, 2016 - Ordinance Headings Advertisement

**PUBLIC HEARING SCHEDULE:**

April 20, 2016 (7:00 pm) - City Council 1<sup>st</sup> Reading  
May 4, 2016 (1:30 pm) - City Council 2<sup>nd</sup> Reading and Adoption

**FUNDING SOURCE: N/A**

**DISTRIBUTION**

Mayor Kilsheimer  
Commissioners  
City Administrator  
Community Development Director

Finance Director  
HR Director  
IT Director  
Police Chief

Public Services Director  
Recreation Director  
City Clerk  
Fire Chief

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**RECOMMENDATION ACTION:**

The **Development Review Committee** recommends approval of the 2016 Annexation – Cycle No. 2

Accept the First Reading of Ordinance No. 2495, and Hold it Over for Second Reading and Adoption on May 4, 2016.

**EXHIBIT "A"**  
**CITY OF APOPKA**  
**2016 ANNEXATION CYCLE # 2**

**TOTAL ACRES: 15.3 +/-**  
**ANNEXATION ORDINANCE NO.: 2494 & 2495**

**Adopted this 4th day of May, 2016**

<b>ORD. NO.</b>	<b>ITEM NO.</b>	<b>OWNER'S NAME</b>	<b>LOCATION</b>	<b>PARCEL NUMBER</b>	<b>ACRES +/-</b>	<b>EXISTING USE</b>	<b>FUTURE LAND USE (COUNTY)</b>
2494	1	SBKP, LLC	312 OLD DIXIE HIGHWAY	09-21-28-7552-01-070	0.26	SFR (1)	LOW DENSITY RESIDENTIAL MAX. 4DU/AC
2495	2	JACK V. CRAVEY JOYCE A. CRAVEY	3815 PHILS LANE 3827 HIDEAWAY ROAD	24-20-27-0000-00-112 24-20-27-0000-00-056	13.35 <u>1.69</u> 15.04	VACANT LAND	RURAL 1DU/10ACRES/ AGRICULTURAL

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**ORDINANCE NO. 2495**

**AN ORDINANCE OF THE CITY OF APOPKA, FLORIDA, TO EXTEND ITS TERRITORIAL AND MUNICIPAL LIMITS TO ANNEX PURSUANT TO FLORIDA STATUTE 171.044 THE HEREINAFTER DESCRIBED LANDS SITUATED AND BEING IN ORANGE COUNTY, FLORIDA, OWNED BY JACK V. CRAVEY AND JOYCE A. CRAVEY LOCATED AT 3815 PHILS LANE AND 3827 HIDEAWAY ROAD; PROVIDING FOR DIRECTIONS TO THE CITY CLERK, SEVERABILITY, CONFLICTS, AND AN EFFECTIVE DATE.**

WHEREAS, Jack A. Cravey and Joyce V. Cravey, owners thereof, have petitioned the City Council of the City of Apopka, Florida, to annex the properties located at 3815 Phils Lane and 3827 Hideaway Road; and

WHEREAS, Florida Statute 171.044 of the General Laws of Florida provide that a municipal corporation may annex property into its corporate limits upon voluntary petition of the owners, by passing and adopting a non-emergency ordinance to annex said property; and

WHEREAS, the City Council of the City of Apopka, Florida is desirous of annexing and redefining the boundaries of the municipality to include the subject property pursuant to Florida Statute 171.044.

NOW, THEREFORE, BE IT ORDAINED by the City Council of the City of Apopka, Florida, as follows:

SECTION I: That the following described properties, being situated in Orange County, Florida, totaling **15.04 +/- acres**, and graphically depicted by the attached Exhibit "A", is hereby annexed into the City of Apopka, Florida, pursuant to the voluntary annexation provisions of Chapter 171.044, Florida Statutes, and other applicable laws:

Legal Descriptions:

W1/2 OF NW1/4 OF NE1/4 SEC 24-20-27 SEE 4724/4396 & (LESS PT TAKEN FOR R/W PER 10755/8244) Parcel I.D. No. 24-20-27-0000-00-056 Containing 1.69 +/- acres

and;

W1/2 OF NW1/4 OF NE1/4 SEC 24-20-27 SEE 4724/4396 & (LESS PT TAKEN FOR R/W PER 10755/8244) Parcel I.D. No. 24-20-27-0000-00-112 Containing 13.35 +/- acres

Combined Total Acres 15.04 +/-

SECTION II: That the corporate territorial limits of the City of Apopka, Florida, are hereby redefined to include said land herein described and annexed.

**ORDINANCE NO.: 2495**  
**PAGE 2**

SECTION III: That the City Council will designate the land use classification and zoning category of these annexed lands in accordance with applicable City ordinances and State laws.

SECTION IV: That the land herein described and future inhabitants of the land herein described shall be liable for all debts and obligations and be subject to all species of taxation, laws, ordinances and regulations of the City.

SECTION V: That if any section or portion of a section or subsection of this Ordinance proves to be invalid, unlawful, or unconstitutional, it shall not be held to invalidate or impair the validity, force, or effect of any other section or portion of a section or subsection or part of this ordinance.

SECTION VI: That all ordinances or parts of ordinances in conflict herewith are hereby repealed.

SECTION VII: That this ordinance shall take effect upon passage and adoption, thereafter the City Clerk is hereby directed to file this ordinance with the Clerk of the Circuit Court in and for Orange County, Florida; the Orange County Property Appraiser; and the Department of State of the State of Florida.

READ FIRST TIME: April 20, 2016

READ SECOND TIME  
AND ADOPTED: May 4, 2016

\_\_\_\_\_  
Joseph E. Kilsheimer, Mayor

ATTEST:

\_\_\_\_\_  
Linda Goff, City Clerk

DULY ADVERTISED FOR PUBLIC HEARING: April 8, 2016  
April 15, 2016  
April 22, 2016

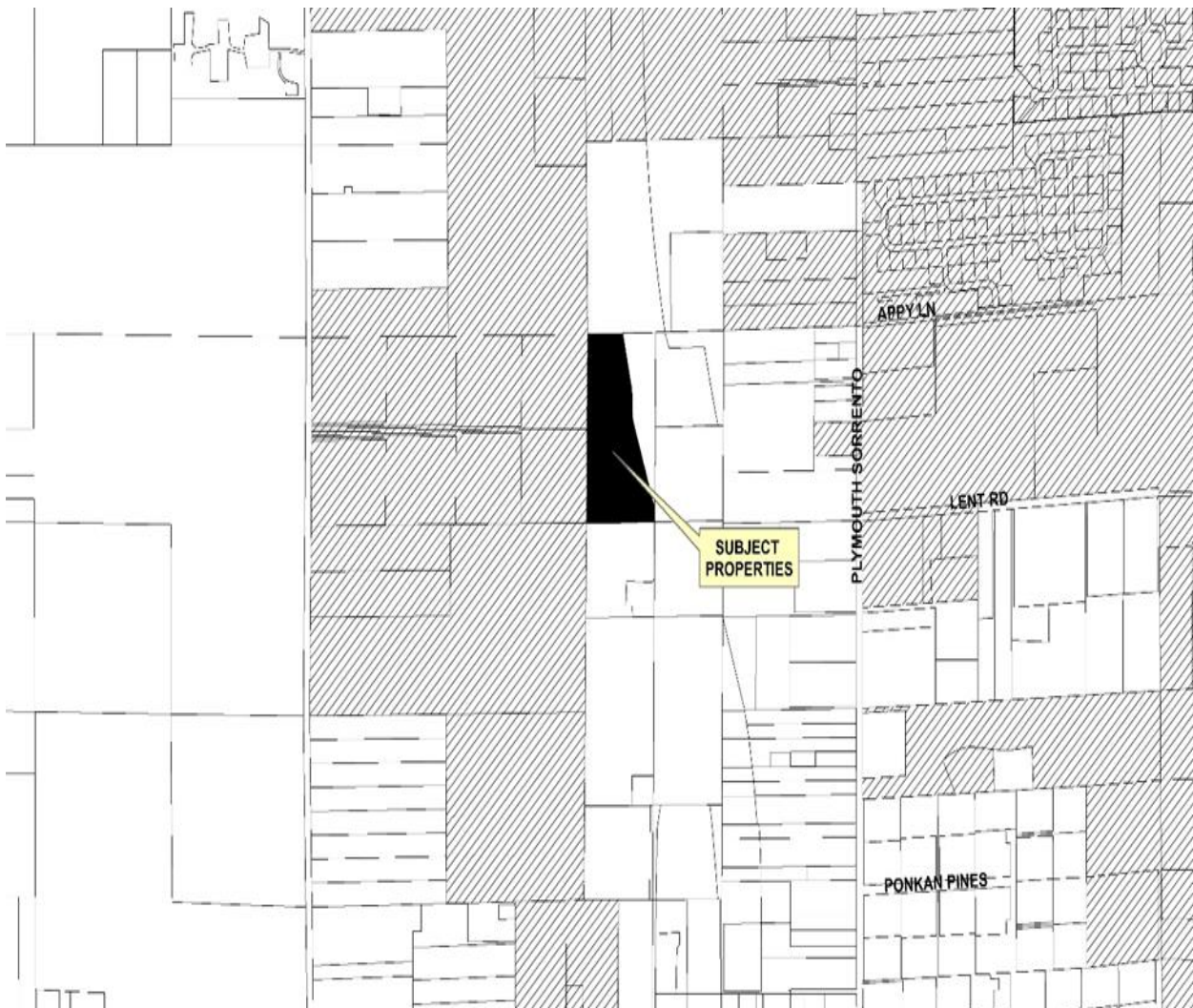
**ANNEXATION**  
**JACK AND JOYCE CRAVEY**  
**3815 PHILS LANE**  
**3827 HIDEAWAY ROAD**



**Exhibit "A"**  
**Ord. # 2495**  
**Parcel ID: 24-20-27-0000-00-112**  
**24-20-27-0000-00-056**

**Total Acres: 15.04 +/-**

**VICINITY MAP**



**Backup material for agenda item:**

1. Ratify the Certificate of Official Election Results.

Linda Goff



# CITY OF APOPKA CITY COUNCIL

- CONSENT AGENDA
- PUBLIC HEARING
- SPECIAL REPORTS
- OTHER:

MEETING OF: April 20, 2016  
 FROM: City Clerk  
 EXHIBITS: Official Run-off Election Results

**SUBJECT: 2016 RUN-OFF ELECTION RESULTS**

**REQUEST: RATIFY THE CERTIFICATE OF OFFICIAL ELECTION RESULTS**

**SUMMARY:** The City’s General election for City Council Seat 3 and Seat 4 was held on March 15, 2016, in conjunction with the Presidential Preference Primary. No candidate received a majority of the votes cast. On April 12, 2016 a Run-off election was held for Seat 3 between Candidate Douglas Michael Bankson and Candidate Sam Ruth, as well as Seat 4 between Candidate J.W. “Bill” Arrowsmith, and Candidate Kyle S. Becker.

The Canvassing Board met on April 12, 2016, 4:00 p.m. at the Supervisor of Elections office, 119 W Kaley Street, Orlando, FL to canvass the absentee and early voting ballots. The board reconvened at 7:00 p.m. to continue canvassing ballots as the results came in from the precinct. The Canvassing Board met again at the same location to conduct the voting system manual audit as required by FS 101.591, with the assistance from employees of the Orange County Supervisor of Election’s Office. Following the manual audit, the Canvassing Board voted unanimously to officially certify the April 12, 2016, City of Apopka Run-off election results.

**FUNDING SOURCE:**

N/A

**RECOMMENDATION ACTION:**

Chapter 34 – Elections, Section 34-41 – Canvassing board; canvass and certification of votes, of the City Code of Ordinances requires the Canvassing Board to present the signed certificate containing the number of votes cast for each candidate to the City Council for ratification. The Canvassing Board recommends the Council ratify the official certified results of the Run-off election held April 12, 2016, as presented.

**DISTRIBUTION**

- |                                |                  |                          |
|--------------------------------|------------------|--------------------------|
| Mayor Kilsheimer               | Finance Director | Public Services Director |
| Commissioners                  | HR Director      | Recreation Director      |
| City Administrator             | IT Director      | City Clerk               |
| Community Development Director | Police Chief     | Fire Chief               |

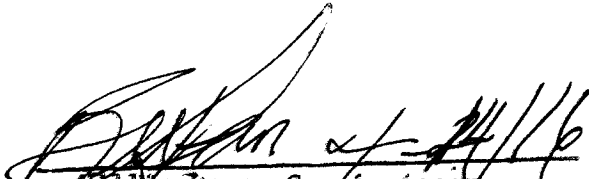


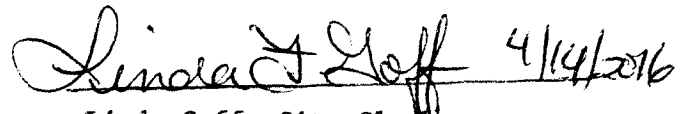
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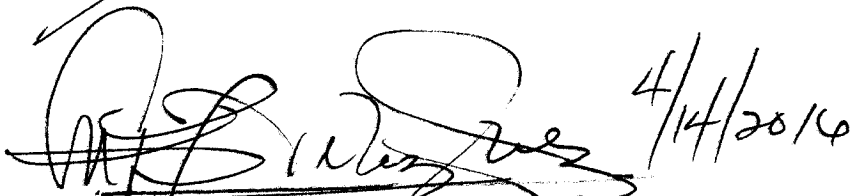
	TOTAL VOTES	%	EV-DS200	AV-AB850	ED-DS200	PV-EARLY	PV-EDAY
PRECINCTS COUNTED (OF 1)	1	100.00					
REGISTERED VOTERS - TOTAL	27,646						
BALLOTS CAST - TOTAL	4,930		31	2,472	2,427	0	0
BALLOTS CAST - BLANK	1	.02	0	1	0	0	0
VOTER TURNOUT - TOTAL		17.83					
VOTER TURNOUT - BLANK							
<b>Apopka City Council, Seat #3</b>							
(VOTE FOR) 1							
Douglas Michael Bankson	2,707	55.51	12	1,375	1,320	0	0
Sam Ruth	2,170	44.49	19	1,076	1,075	0	0
Over Votes	0		0	0	0	0	0
Under Votes	53		0	21	32	0	0
<b>Apopka City Council, Seat #4</b>							
(VOTE FOR) 1							
J.W. "Bill" Arrowsmith	2,206	45.07	9	1,108	1,089	0	0
Kyle Becker	2,689	54.93	22	1,352	1,315	0	0
Over Votes	3		0	2	1	0	0
Under Votes	32		0	10	22	0	0

STATE OF FLORIDA - COUNTY OF ORANGE

WE, THE CANVASSING BOARD, DO HEREBY CERTIFY THIS 14<sup>th</sup> DAY OF APRIL, 2016, THAT THE FOREGOING RECORD OF VOTES AS SHOWN BY THIS CERTIFICATE IS TRUE AND CORRECT.

  
Billie Dean, Commissioner

 4/14/2016  
Linda Goff, City Clerk

 4/14/2016  
Diane Velazquez, Commissioner