### CITY OF GREEN COVE SPRINGS PLANNING & ZONING BOARD MEETING



321 WALNUT STREET, GREEN COVE SPRINGS, FLORIDA TUESDAY, JANUARY 23, 2024 – 5:00 PM

#### **AGENDA**

#### GENERAL INFORMATION

Anyone wishing to address the Planning and Zoning Board regarding any topic on this evening's agenda is requested to complete a card available at the Clerk's desk. Speakers are respectfully requested to limit their comments to three (3) minutes.

The Planning and Zoning Board prohibits the use of cell phones and pagers which emit an audible sound during all meetings with the exception of Law Enforcement, Fire and Rescue, or Health Care Professionals on call. Persons in violation will be requested to leave the meeting.

#### **ROLL CALL**

#### APPROVAL OF MINUTES

1. Approval of the Minutes of the November 26, 2023 Meeting

#### **PUBLIC HEARINGS**

- 2. Special Exception for a Warehouse use in a C-2 Zoning District for property located on the south side of the 800 block of Cooks Lane for approximately 7.8 acres of parcel #016564-002-00.
- 3. Large Scale Future Land Use Map Amendment for property located at the Southeast corner of US 17 and SR 16 for approximately 58.12 acres of parcel #016451-000-00 and a portion of parcel #016451-003-00.
  - Future Land Use Amendment: from: Mixed Use to: Industrial
- 4. Large Scale Future Land Use Text Amendment for property located at the Southeast corner of US 17 and SR 16 for approximately 58.12 acres of parcel #016451-000-00 and a portion of parcel #016451-003-00.
  - Future Land Use Amendment: from: Mixed Use to: Industrial
- <u>5.</u> Ordinance O-36-2023, Adding Street Walls as an alternative design standard in the Gateway Corridor District as a special exception.

#### **ACTION ITEMS**

6. Review of Site Development application for The Vineyard Transitional Center located at 518 N Pine Ave

#### **BOARD BUSINESS**

Board Discussion / Comments

**Staff Comments** 

#### **ADJOURNMENT**

**NEXT MEETING:** TUESDAY, FEBRUARY 27, 2024

Minutes of the Planning & Zoning Board Meeting can be obtained from the City Clerk's office. The Minutes are recorded, but are not transcribed verbatim.

Persons requiring a verbatim transcript may make arrangements with the City Clerk to duplicate the recordings, or arrange to have a court reporter present at the meeting. The cost of duplication and/or court reporter will be at the expense of the requesting party.

#### **ADA NOTICE**

In accordance with Section 286.26, Florida Statutes, persons with disabilities needing special accommodations to participate in this meeting should contact the City Clerk's office no later than 5:00 p.m. on the day prior to the meeting.

#### **EXPARTE COMMUNICATIONS**

Oral or written exchanges (sometimes referred to as lobbying or information gathering) between a Planning and Zoning Board member and others, including staff, where there is a substantive discussion regarding a quasi-judicial decision by the Planning and Zoning Board. The exchanges must be disclosed by the Planning and Zoning Board.

### CITY OF GREEN COVE SPRINGS PLANNING & ZONING BOARD MEETING



321 WALNUT STREET, GREEN COVE SPRINGS, FLORIDA TUESDAY, NOVEMBER 28, 2023 – 5:00 PM

#### **MINUTES**

#### The meeting was called to order at 5:00pm by Chairman Hall.

Board Members Present: Board Member Brian Cook, Board Member Joshua Hobbs, Vice Chairman Josh Danley, Chairman Justin Hall

Board Member Absent: Board Member Henrietta Francis

Staff Members Present: L.J. Arnold, III, City Attorney, Steve Kennedy, City Manager, Michael Daniels, Development Services Director, Lyndie Knowles, Development Services Representative

#### APPROVAL OF MINUTES

1. Approval of Minutes from October 24, 2023

Approval of the Minutes from the October 24, 2023 Meeting.

Motion was made to approve the minutes from the October 24, 2023 meeting. Motion made by Board Member Cook, Seconded by Board Member Hobbs. Voting Yea: Board Member Cook, Board Member Hobbs, Vice Chairman Danley, Chairman Hall

#### **PUBLIC HEARINGS**

2. Special Exception Request for a Home Occupation for Art / Sculpting Business, located at 301 Green Street.

Development Services Director Michael Daniels presented staff comments regarding the request for a special exception for a home occupation for an art business at 301 Green Street.

Ms. Christina Bonner spoke on behalf of the applicant and shared that she thought it would be a positive addition to the neighborhood.

Board discussion followed with applicant, Angela Hindle

Motion was made to approve the special exception for a home occupancy at 301 Green Street.

Motion made by Board Member Cook, Seconded by Board Member Hobbs. Voting Yea: Board Member Cook, Board Member Hobbs, Vice Chairman Danley, Chairman Hall

### 3. Ordinance O-36-2023, Adding Street Walls as an alternative design standard in the Gateway Corridor District

Development Services Michael Daniels presented Ordinance O-36-2023 to add street walls as an alternative design standard in the Gateway Corridor District.

Board discussion followed.

Motion made to recommend approval City County for Ordinance O-36-2023 to add street walls as an alternative design standard in the Gateway Corridor District.

Motion made by Board Member Cook, Seconded by Board Member Hobbs. Voting Yea: Board Member Cook, Board Member Hobbs, Vice Chairman Danley, Chairman Hall

#### **BOARD BUSINESS**

There was further board discussion with staff regarding updates on the Walnut Street project, the Rivers House and other Downtown Master Plan projects.

In addition, Mr. Daniels presented information regarding the plan to begin the citywide tree survey project. Any board members who would like to volunteer to assist would be welcome to join the effort.

The meeting was adjourned at 5:35pm.

NEXT MEETING: Tuesday, January 23, 2024 at 5:00PM				
	CITY OF GREEN COVE SPRINGS, FLORIDA			
	J. Justin Hall, Chairman			
Attest:				
Lyndie Knowles, Development Services Rep.	_			



### STAFF REPORT

#### CITY OF GREEN COVE SPRINGS, FLORIDA

TO: Planning and Zoning Commission MEETING DATE: January 23, 2024

**FROM:** Michael Daniels, AICP, Development Services Director

**SUBJECT:** Special Exception for a Warehouse use in a C-2 Zoning District for property located on the

south side of the 800 block of Cooks Lane for approximately 7.8 acres of parcel #016564-

002-00.

#### PROPERTY DESCRIPTION

**APPLICANT:** Quoc Mai, Mai Engineering **OWNER:** William Kreig

Services, Inc.

**PROPERTY LOCATION:** 800 Block of Cooks Lane

**PARCEL NUMBER:** 016564-002-00

FILE NUMBER: SE-23-003

**CURRENT ZONING:** C-2, General Commercial/M-2 Heavy Industrial

**FUTURE LAND USE DESIGNATION**: Mixed Use/Industrial

#### SURROUNDING LAND USE

NORTH: FLU: Neighborhood SOUTH: FLU: INDUSTRIAL

**Z**: R-3, R-2 **Z**: MUH

Use: Apartments/Single Family Use: Undeveloped

**EAST:** WEST: FLU: INDUSTRIAL/Mixed Use

**Z**: M-2/R-3 **Z**: C-2

Use: Industrial / Undeveloped

#### **BACKGROUND**

The applicant has applied for a Special Exception for the subject property for the construction of commercial / warehouse development. The applicant has previously submitted a site development plan (SPL-22-006) which is currently under review.

#### **PROPERTY DESCRIPTION**

The property has approximately is located within Energy Cove however it only has access to Cooks Lane. The property is heavily wooded with a mixture of hardwood and pine trees.

Figure 1. Aerial Map



Figure 2. Future Land Use

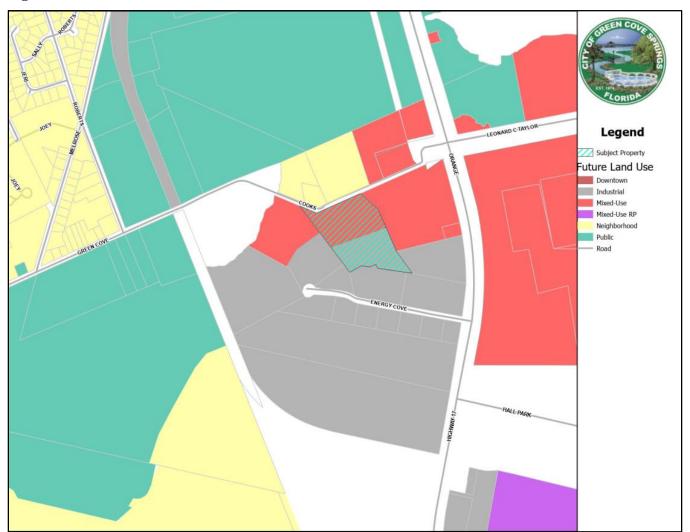


Figure 3. Zoning



#### DEVELOPMENT DESCRIPTION

The applicant has submitted a site development plan for 4 warehouse buildings totaling 76,000 square feet. A portion of the existing property was annexed in 2008 and given a Future Land Use District of industrial for the rear 6 acres but never given a zoning designation. The Zoning Designation shall be changed prior to development approval. The northerly 2 acres are zoned C-2, General Commercial.

#### PARKING, LOADING, & STACKING

The plan shows 182 onsite parking spaces and 9 handicapped spaces. City Parking requirements require 114 parking spaces.

#### **DRAINAGE RETENTION**

A drainage retention plan has been provided showing that a drainage retention system will drain to a proposed retention pond onsite. within Energy Cove Court. In addition, the applicant is required to secure a stormwater permit from the St Johns River Water Management District prior to moving forward with project development. The drainage retention plan has been submitted and shall comply with City staff and our consulting engineer's requirements prior to approval. The drainage plan will be designed to ensure that no additional runoff is sent to adjacent properties.

#### TRAFFIC AND ACCESS

The plan shows one vehicular access point on Cooks Lane.

Pursuant to the attached traffic study, the project will generate 176 total trips and 33 pm peak hour trips. Pursuant to the attached traffic study, they are showing failures of several turning movements at the intersection of US 17 and SR 16. However, with signal timing adjustments the intersection can operate at an acceptable Level of Service. These trip thresholds are typically below the requirements required for a traffic study.

Truck traffic is limited to ingress and egress off of US 17, pursuant to the 5-ton weight limit to the west of the site on Cooks Lane.

#### LANDSCAPE AND SCREENING REQUIREMENTS

The current landscape plan is showing that 962 inches of trees onsite shall be saved as well as the planting of an additional 400 inches shall be planted.

In addition to the site plan requirements for tree planting, staff is recommending a 40' landscape buffer along Cooks Lane with the following landscape buffer meeting the requirements set forth in Sec. 113-244(d)(3).

- 1 canopy tree a minimum of every 50' lineal feet,
- 2 understory trees every 50' lineal feet
- A continuous hedge row.

#### PUBLIC FACILITIES IMPACT

#### Potable Water Impacts

System Category	Gallons Per Day (GPD)
Current Permitted Capacity <sup>1</sup>	4,200,000
Less actual Potable Water Flows <sup>1</sup>	1,013,000
Residual Capacity <sup>1</sup>	3,187,000
Projected Potable Water Demand from Proposed Project <sup>2</sup>	10,034
Residual Capacity after Proposed Project	3,176,966

- 1. Source: City of Green Cove Springs Public Works Department
- 2. Source: City of Green Cove Springs Comprehensive Plan. Formula Used: .11 gallons per 1,000 sq ft.

#### Sanitary Sewer Impacts – South Plant WWTP

System Category	Gallons Per Day (GPD)
Current Permitted Capacity <sup>1</sup>	350,000
Current Loading <sup>1</sup>	264,000
Committed Loading <sup>1</sup>	62,000
Residual Capacity <sup>1</sup>	46,000
Percentage of Permitted Design Capacity Utilized <sup>1</sup>	103%
Projected Sewer Demand from Proposed Project <sup>2</sup>	8,360
Residual Capacity after Proposed Project	37,640

- 1. Source: City of Green Cove Springs Public Works Department
- 2. Source: City of Green Cove Springs Comprehensive Plan. Formula Used: .11 gallons per 1,000 square feet

**Conclusion:** The project site is served by the South Plant Wastewater Treatment Plant (WWTP). As shown in the table above, when factoring in the current loading and the committed loading, this WWTP has the capacity to handle the estimated impacts resulting from the proposed application. When the committed flows for the Rookery are going to be served by Clay County utility Authority there will be adequate capacity for this project.

#### Solid Waste Impacts

**Conclusion:** The City of Green Cove Springs does not provide solid waste for nonresidential users. Private providers subject to the franchise requirements set forth in Sec 66-10 of the City Code.

#### STAFF COMMENTS

This property is part of the Energy Cove Industrial Park. The surrounding uses within the Park are industrial uses. However this property borders existing and proposed residential uses to the north and west. In order to make this use compatible additional conditions have been placed on the property to ensure that the look and function of the property is compatible with the surrounding area. These include a landscape buffer, traffic improvements, right of way dedication, building material requirements to address compatibility with the surrounding area.

#### Attachments include:

- 1. Site Plan
- 2. Property Rendering
- 3. Traffic Study
- 4. Application
- 5. Site Plan Deficiency Report

#### STAFF RECOMMENDATION

Staff recommends approval of the special exception subject to the following conditions:

- 1. Provide a 40' landscape buffer with required landscaping as set forth in the City LDC Section
- 2. Limit truck traffic to ingress and egress from US 17 by requiring access limitation.
- 3. All outdoor storage must be screened from public view.
- 4. Corrugated Metal, Styrofoam, and other foam-based products are prohibited on building exteriors.
- 5. Signal timing improvements as set forth in the Traffic Study Report shall be implemented prior to development approval.
- 6. Additional Right of Way as shown on the attached draft site plan shall be dedicated to the City prior to development approval.

#### **RECOMMENDED MOTIONS:**

Motion to recommend approval to City Council of recommendation of approval of Special Exception subject to the following conditions:

- 1. Provide a 40' landscape buffer consisting of landscaping as required by City LDC Sec. 113-244(d)(3).
- 2. Provide signage to limit truck traffic to ingress and egress from US 17 by requiring access limitation.
- 3. All outdoor storage must be completely screened from public view.
- 4. Corrugated Metal, Styrofoam, and other foam-based products are prohibited on building exteriors.
- 5. Signal timing improvements as set forth in the Traffic Study Report shall be implemented prior to development approval.
- 6. Additional Right of Way as shown on the attached draft site plan shall be dedicated to the City prior to development approval.

# City of Green Cove Springs Special Exception Application

FOR OFFICE USE ONLY	1, ,,
P Z File #	Item # 2.
Application Fee:	
Filing Date:Acceptance Dat	e:
Review Type: SDRT □ P & Z □	

A.	PROJECT
1.	Project Name: RIVER OAKS DEVELOPMENT
2.	Address of Subject Property: 1609 S ORANGE AVE
	Parcel ID Number(s) 38-06-26-016564-002
3.	Existing Use of Property: VACANT
4.	Future Land Use Map Designation : MUH-MIXED USE HIGHWAY
5.	Zoning Designation: MUH-MIX USE HIGHWAY
6.	Zoning Designation: WICH-IVIIX GOL THOTTWAT
7.	Acreage: 7.84 AC
В.	APPLICANT
1.	Applicant's Status Owner (title holder) Agent  Name of Applicant(s) or Contact Person(s): QUOC MAI  Title: PRESIDENT
2.	Name of Applicant(s) or Contact Person(s): QUOC MAI Title: PRESIDENT
	Company (if applicable): MAI ENGINEERING SERVICES, INC
	Mailing address: 2510 US1 S, SUITE D
	ST AUGUSTINE State: FL ZIP: 32086
	City: ST AUGUSTINE State: FL 2IP: 32086  Telephone: () 904-794-176  FAX: () e-mail: QUOC@MAIENGINEER.COM
3.	If the applicant is agent for the property owner*:
	Name of Owner (title holder): WILLIAM KRIEG
	Company (if applicable): 1609 SOUTH ORANGE AVE, LLC
	Mailing address: PO BOX 7902
	City: JACKSONVILLE State: FL ZIP: 32204
	Telephone: ()904-234-1551 FAX: () e-mail:
	* Must provide executed Property Owner Affidavit authorizing the agent to act on behalf of the property owner.
C.	ADDITIONAL INFORMATION
	1. Is there any additional contact for sale of, or options to purchase, the subject property?
	If yes, list names of all parties involved: NA
	If yes, is the contract/option contingent or absolute?
	City of Green Cove Springs Development Services Department ◆321 Walnut Street ◆ Green Cove Springs, FL 32043 ◆ (904) 297-7500

	STATEMENT OF SPECIAL EXCEPTION SOUGHT						
4	Requested Special Exception: CHI-COMMERCIAL ZONING						
1.	Section of Land Development Regulations under which the Special Exception is sought  117-254 (6)  AS REQUIRED BY CITY						
2.	Reason Special Exception is requested: AS REQUIRED BY CITY						
	Statement of Facts for Requested Special Exception (Use additional pages if necessary)						
(P Th	LEASE ANSWER THE FOLLOWING QUESTIONS TO THE BEST OF YOUR ABILITY. THESE FACTS WILL BE USED BY HE STAFF TO MAKE A RECOMMENDATION AND THE PLANNING AND ZONING BOARD IN MAKING THEIR DECISION)						
	a. Is this exception in compliance with all elements of the Comprehensive Plan?  YES						
	<ul> <li>b. Is the establishment, maintenance or operation of the special exception detrimental to or endanger the public health, safety or general welfare, or contrary to established standards, regulations or ordinances of other governmental agencies?</li> <li>NO</li> </ul>						
	c. Is the structure or improvement so designed and constructed that it is not unsightly, undesirable or obnoxious in appearance to the extent that it will hinder the orderly and harmonious development of Green Cove Springs and zoning district in which it is proposed? NO						
	d. Will the special exception adversely impact the permitted use in the zoning district or unduly restrict the enjoyment of the other property in the immediate vicinity nor substantially diminish or impair property values within the area?						
	NO						
	e. Will the establishment of the special exception impede the orderly development and improvement of the surrounding property for uses permitted in the zoning district?						
	NO						
	f. Are adequate water and sewage disposal facilities provided?  YES						
	g. Are access roads adequate, on-site parking, on-site loading and loading berths, and drainage have been or will be provided where required? YES						
_	Co						

City of Green Cove Springs Development Services Department ♦321 Walnut Street ♦ Green Cove Springs, FL 32043 ♦ (904) 297-7500

h. Have adequate measures been taken to provide ingress and egress to the property and design in a manner to minimize traffic congestion on local roads?

#### YES

i. Is adequate screening and buffering signs of the special exception provided, if needed??

#### YES

Will the special exception require signs or exterior lighting, which will cause glare, adversely impact area traffic safety or have a negative economic effect on the area? Any signs or exterior lighting required by the special exception shall be compatible with development in the zoning district?

### NO, SIGNS AND LIGHTING WILL BE MINIMAL AND ACCEPTABLE. YES, THEY

WILL BE COMPATIBLE.
Will the special exception conform to all applicable regulations of the zoning district in which it is proposed?

#### YES

- E. ATTACHMENTS (One hard copy or one copy in PDF format)
  - 1. Copy of Warranty Deed or other proof of ownership
  - 2. Legal description
- F. FEE.

Home Occupation - \$150 Residential property - \$250 Non-residential - \$500

- a. The Cost of postage, signs, advertisements, and outside consultants are in addition to the application fee.
- The applicant is responsible to pay the cost of the advertisement and signs.
- c. All applications are subject 10% administrative fee and must pay the cost of any outside consultants' fees.

No application shall be accepted for processing until the required application fee is paid in full by the applicant. Any fees for advertising, signs, necessary technical review or additional reviews of the application by a consultant will be billed to the applicant at the rate of the reviewing entity. The invoice shall be paid in full prior to any action of any kind on the development application.

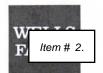
Both attachments are required for a complete application. A completeness review of the application will be conducted within five (5) business days of receipt. If the application is determined to be incomplete, the application will be returned to the applicant.

City of Green Cove Springs Development Services Department ◆321 Walnut Street ◆ Green Cove Springs, FL 32043 ◆ (904) 297-7500

I/We certify and acknowledge that the information of	contained herein is true and correct to the best	of my/our knowledge:
tua prac		& physical presence
Signature of Applicant	Signature of Co-applicant	1 1 1
QUOC H. MAI		
Typed or printed name and title of applicant	Typed or printed name of co-applicant	
Date Date		
Date /	Date	
State of Coun	ty of	
Please See Atta	iched	
The foregoing application is acknowledged before me	his day of, 20, by	
, who is/are personally known to	me, or who has/have produced	
as identification.		
NOTARY SEAL		
	Signature of Notary Public, State of	



State of Florida



### Acknowledgment by Individual

County of St Johns The foregoing instrument was acknowledged before me this 15th , 20 <u>23</u> , by means of ⊠ physical presence or □ online notarization Quoc H Mai (name of person acknowledging). Personally known to me Produced Identification Type of Identification Produced FLDL Notary signature \_ Notary name (typed or printed) Michelle Berman Title (e.g., Notary Public) Notary Place Seal Here MICHELLE BERMAN Notary Public - State of Florida Commission # HH 408932 My Comm. Expires Jun 11, 2027 For Bank Purposes Only Description of Attached Document Type or Title of Document GCS Special Exception Number of Pages **Document Date** 11/15/2023 Signer(s) Other Than Named Above Account Number (if applicable)

### 1369-River Oaks Development Renderings







### OWNER:

WILL KRIEG P.O. BOX 7902 JACKSONVILLE, FL 32210 OFFICE 904-379-9242 WWW.RIVEROAKSOUTDOOR.COM WILL@RIVEROAKSOUTDOOR.COM

### <u>GEOTECHNICAL</u> ENGINEER

ELLIS - ECS FLORIDA 7064 DAVIS CREEK RD. JACKSONVILLE, FLORIDA 32256 PH: (904) 880-0960 FX: (904) 880-0970

### ENGINEER:

MAI ENGINEERING SERVICES, INC 2510 US 1 S, SUITE D ST. AUGUSTINE, FL 32086 PHONE: (904) 794-1760 FAX: (904)-794-1768 ATTN. QUOC H. MAI, P.E.

FRANK JONES & ASSOCIATES 6015 CHESTER CIRCLE JACKSONVILLE, FLORIDA 32217 PH: (904) 448-5424

### TOPO SURVEYOR

### ELECTRIC:

GREEN COVE SPRINGS ELECTRIC 321 WALNUT ST. GREEN COVE SPRINGS, FL 32043 PHONE: (904)-297-7500

### **COMMUNICATION**

8171 BAYMEADOWS WAY W. 3RD FLOOR JACKSONVILLE, FL 32256 PHONE: (904) 407-2549 ATTN: KEVIN DOW

### WATER & SEWER:

CITY OF GREEN COVE SPRINGS UTILITIES 321 WALNUT ST GREEN COVE SPRINGS, FL 32043

### THE CITY OF GREEN COVE SPRINGS

321 WALNUT ST GREEN COVE SPRINGS, FL 32043 904-297-7500

### ST JOHNS RIVER WATER MANAGEMENT DISTRICT

7775 BAYMEADOWS WAY, SUITE 102 JACKSONVILLE, FL 32256 904-730-6270 800-852-1563

### FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION:

FDEP-NORTHEAST DISTRICT 8800 BAYMEADOWS WAY WEST, SUITE 100 JACKSONVILLE, FLORIDA 32256 (904) 256-1700

## SITE DEVELOPMENT PLANS FORRIVER OAKS INDUSTRIAL PARK

PARCEL ID. NO.: 38-06-26-016564-002 SITE ADDRESS: 1609 COOKS LANE., GREEN COVE SPRINGS, FLORIDA

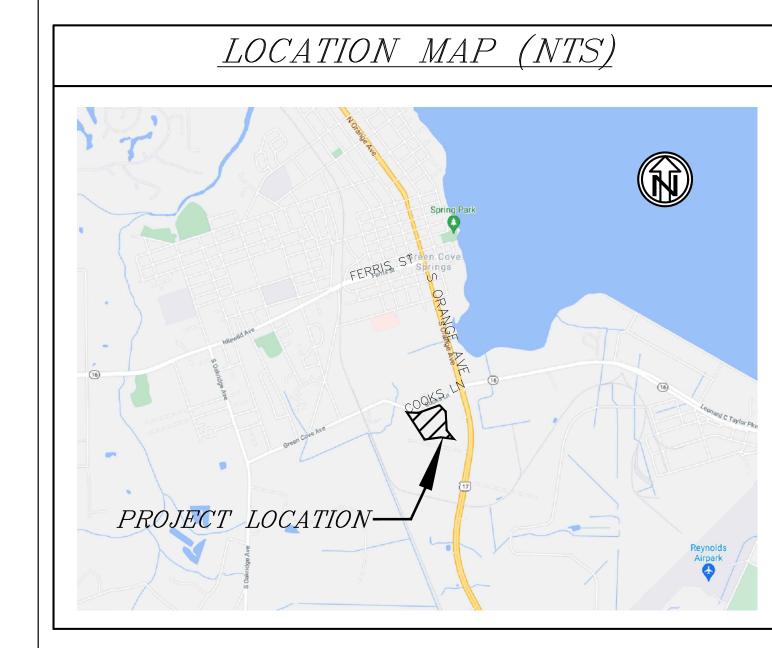
### PREPARED BY:



### DRAWING INDEX

1.	COVER SHEET
2.	GENERAL NOTES
3.	TREE SURVEY
4.	TOPO SURVEY
5.	EROSION CONTROL PLAN
6.	DEMOLITION PLAN
7.	SITE PLAN
8.	GRADING PLAN
9.	UTILITIES PLAN
10.	LANDSCAPE PLAN
11.	MOT INDEX
1213.	EROSION CONTROL DETAILS
14.	GENERAL DETAILS
15.	WATER SERVICE DETAILS
16.	SEWER SYSTEM DETAILS
17.	DRAINAGE DETAILS

PUMP STATION DETAILS









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RIVER OAKS GREEN COVE

DATE: 8/10/2023

### GENERAL NOTES:

- 1. ALL WORK SHALL BE COMPLETED IN CONFORMANCE AS APPLICABLE WITH FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," LATEST EDITION
- 2. SHOP DRAWINGS SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO MANUFACTURE.
- 3. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ANY EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL LINE AND GRADE STAKES IN THE FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ANY DISCREPANCIES MUST BE REPORTED IMMEDIATELY TO THE ENGINEER OR THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY ERRORS.
- 5. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO START OF CONSTRUCTION FOR LOCATION OF EXISTING UTILITIES, IN ORDER TO PREVENT DAMAGE AND COORDINATE ADJUSTMENT AND/OR RELOCATION OF SAME IF REQUIRED.
- 6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER AND OWNER OF ANY CHANGES OR DEVIATIONS FROM THE ORIGINAL PLANS PRIOR TO CONSTRUCTION OF SAID CHANGE OR DEVIATION.
- 7. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO PROTECT ALL EXISTING STRUCTURES AND UTILITIES. ANY DAMAGES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- 8. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY INSURANCE AND BONDS REQUESTED BY THE OWNER FOR THIS PROJECT.
- 9. THE OWNER WILL PROVIDE THE SELECTED CONTRACTOR WITH COPIES OF ALL PERMITS RECEIVED FOR THE PROJECT.
- 10. THE CONTRACTOR SHALL PROTECT AND USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES OR UNDERGROUND UTILITIES.
- 11. ALL PROPERTY CORNERS AND SURVEY MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED. IF A MONUMENT IS IN DANGER OF BEING DESTROYED, THE PROJECT ENGINEER AND OWNER SHOULD BE NOTIFIED IMMEDIATELY IN ORDER THAT THE COUNTY MAY HAVE A SURVEYOR REFERENCE SAID POINT PRIOR TO DISTURBANCE. ALSO, ALL G.P.S. CONTROL POINTS ARE TO BE PROTECTED. IF DESTROYED DURING CONSTRUCTION IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO REPLACE THE CONTROL POINT(S) AT THEIR EXPENSE.
- 12. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE, AT ALL TIMES, ONE COPY OF APPROVED CONSTRUCTION PLANS, SPECIFICATIONS ANY SPECIAL PROVISIONS. AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS IN COMPLIANCE WITH THE TOWN OF MARINELAND LAND DEVELOPMENT CODE.
- 13. SUBMITTAL OF AS-BUILT SITE SURVEY, INCLUDING BENCH MARKS, IS REQUIRED.
- 14. THE CONTRACTOR SHALL CONTACT THE TOWN OF MARINELAND DEVELOPMENT SERVICES INSPECTOR 24 HOURS PRIOR TO ALL NECESSARY SITE WORK INSPECTIONS AND 5 DAYS PRIOR TO THE FINAL INSPECTION.
- 15. ANY CHANGES TO THE EXISTING BUILDING (INCLUDING BUT NOT LIMITED TO RE-ROOF AND PAINT COLOR CHANGES) LANDSCAPING, AND FENCES/WALL REQUIRES THE APPROVAL BY THE TOWN OF MARINELAND.

### **EROSION CONTROL NOTES:**

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION CONTROL WITHIN BEST MANAGEMENT PRACTICES FOR THE DURATION OF THE PROJECT UNTIL SUCH TIME AS THE PROJECT HAS BEEN CERTIFIED AS COMPLETE.
- 2. THE CONTRACTOR SHALL SEED & MULCH OR SOD ALL OPEN SPACE AREAS TO BE GRASSED IMMEDIATELY FOLLOWING FINAL GRADING AND COMPLETION OF ALL UNDERGROUND UTILITIES.
- 3. SILT FENCES SHALL BE INSTALLED ALONG LIMITS OF CONSTRUCTION .
- 4. SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL AND REPAIRED IMMEDIATELY IF DAMAGED.
- 5. ALL SIDE SLOPES OF STORM WATER MANAGEMENT AREAS SHALL BE SODDED UPON COMPLETION OF FINAL GRADING.
- 6. ALL INLETS SHALL BE PROTECTED FROM COLLECTION OF ERODED MATERIALS BY INSTALLATION OF TEMPORARY FILTER FABRIC AND/OR HAYBALES.
- 7. FLOATING TURBIDITY BARRIERS SHALL BE INSTALLED WITHIN ALL WATER BODIES DOWNSTREAM OF CONSTRUCTION ACTIVITIES WHERE PROTECTION AGAINST TURBID WATERS DISCHARGE MAY OCCUR.

### MAINTENANCE OF TRAFFIC NOTES:

- 1. ADVANCE CONSTRUCTION SIGNAGE INDEX 602 SHALL BE POSTED.
- 2. TRAFFIC SHALL BE RESTRICTED TO A SINGLE LANE WHEN ANY WORK ENCROACHES THE AREA BETWEEN THE CENTERLINE AND 2 FEET OUTSIDE THE EDGE OF PAVEMENT. ONE-LANE CLOSURES SHALL BE IN ACCORDANCE WITH F.D.O.T. STANDARD INDEX No. 603.
- 3. ALL WORK WITHIN THE FDOT RIGHT OF WAY SHALL CONFORM TO THE MOST CURRENT FDOT STANDARDS AND SPECIFICAATIONS.
- 4. ALL CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE STORED A MINIMUM OF 30 FEET FROM THE EDGE OF EXISTING PAVEMENT AND SHALL BE PROTECTED BY TYPE II BARRICADES WITH FLASHING YELLOW LIGHTS.
- 5. THERE SHALL BE NO EXCAVATIONS LEFT OPEN AFTER DARK.
- 6. CONTRACTOR SHALL NOTIFY CITY OF GREEN COVE SPRINGS PERMITTING OFFICE.
- 7. IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT THE SUNSHINE STATE ONE CALL SYSTEM AT (800)-432-4770 FOR LOCATION OF UNDERGROUND UTILITIES.

### TRAFFIC CONTROL/STRIPING NOTES:

- 1. SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE FLORIDA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE JURISDICTIONAL TRAFFIC DEPARTMENT TYPICAL DRAWINGS FOR ROADWAY SIGNING, STRIPING & GEOMETRICS
- 2. ALL PAVEMENT MARKINGS ARE TO CONSIST OF 90 MIL. THERMOPLASTIC.
- 3. REPLACE ALL EXISTING RPM'S REMOVED OR DAMAGED BY THIS PROJECT, TO MEET 2015 FDOT STANDARDS.
- 4. SIGNS THAT REQUIRE RELOCATION TO BE RELOCATED PER CURRENT STANDARDS 11860 AND 17302.

### SITE PREPARATION NOTES:

- 1. NORMAL, GOOD PRACTICE SITE PREPARATION PROCEDURES SHALL BE USED FOR THIS PROJECT. THESE PROCEDURES INCLUDE: STRIPPING THE SITE OF EXISTING VEGETATION AND TOPSOIL, COMPACTING THE SUBGRADE AND PLACING NECESSARY FILL OR BACKFILL TO GRADE WITH ENGINEERED FILL. A MORE DETAILED SYNOPSIS OF THIS WORK IS AS FOLLOWS:
- 2. PRIOR TO CONSTRUCTION, THE LOCATION OF ANY EXISTING UNDERGROUND UTILITY LINES WITHIN THE CONSTRUCTION AREA SHOULD BE ESTABLISHED. PROVISIONS SHOULD THEN BE MADE TO RELOCATE INTERFERING UTILITIES TO APPROPRIATE LOCATIONS. ABANDONED PIPES SHALL BE PROPERLY REMOVED OR PLUGGED. AS THEY MAY SERVE AS CONDUITS FOR SUBSURFACE EROSION WHICH MAY SUBSEQUENTLY LEAD TO EXCESSIVE SETTLEMENT OF OVERLAY STRUCTURE(S).
- 3. STRIP THE PROPOSED CONSTRUCTION LIMITS OF ALL GRASS, ROOTS, TOPSOIL AND OTHER DELETERIOUS MATERIALS WITHIN AND FOR 3 FEET BEYOND THE PERIMETER OF THE PROPOSED PAVED AREAS. SOME ISOLATED AREAS MAY REQUIRE MORE THAN 12 INCHES OF STRIPPING OR UNDERCUTTING. TYPICAL STRIPPING AT THIS SITE TO DEPTHS OF 6 TO 12 INCHES.
- 4. IT IS RECOMMENDED THE TOP OF THE CLAYEY SANDS BE MAINTAINED A MINIMUM OF 2 FEET BELOW THE PROPOSED BOTTOM OF THE BASE MATERIAL OR CONCRETE PAVEMENT. IF THE SITE GRADING IS SUCH THAT THE MINIMUM SEPARATION DOES NOT EXIST, WE RECOMMEND UNDERCUTTING THE CLAYEY MATERIALS TO MAINTAIN THIS SEPARATION AND BACKFILLING WITH CLEAN STRUCTURAL FILL, AS DESCRIBED BELOW.
- 5. THE SEASONAL HIGH GROUNDWATER LEVEL IS ESTIMATED TO BE ONE FOOT BELOW THE EXISTING GROUND. FOR PLANNING PURPOSES, GROUNDWATER CONTROL MEASURES (DEWATERING) SHOULD BE ANTICIPATED FOR THE STRIPPING AND EARTHWORK OPERATIONS. TEMPORARY GROUNDWATER CONTROL MAY BE ACHIEVED BY PUMPING FROM SUMPS LOCATED IN PERIMETER DITCHES. EACH SUMP SHOULD BE LOCATED OUTSIDE THE ROADWAY AREAS TO AVOID LOOSENING OF THE FINE SANDY SUBGRADE SOILS.
- 6. COMPACT THE SUBGRADE FROM THE SURFACE WITH A LIGHT WEIGHT VIBRATORY ROLLER (A 2 TO 3 TON ROLLER, STATIC WEIGHT AND 3 FOOT DRUM DIAMETER) OR TRACKED DOZER EQUIPMENT UNTIL A MINIMUM DENSITY OF AT LEAST 98 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557), TO A DEPTH OF 12 INCHES BELOW THE COMPACTED SURFACE IS OBTAINED. A MINIMUM OF EIGHT (8) COMPLETE COVERAGES SHOULD BE MADE IN THE PAVEMENT CONSTRUCTION AREA WITH A ROLLER TO IMPROVE THE UNIFORMITY AND INCREASE THE DENSITY OF THE UNDERLYING SANDY SOILS. THE USE OF HEAVY VIBRATORY COMPACTION EQUIPMENT SHALL NOT BE UTILIZED DUE TO THE POTENTIAL FOR PUMPING OF THE NEAR-SURFACE CLAYEY SOILS ENCOUNTERED, UNLESS APPROVED BY THE ENGINEER.
- 7. SHOULD THE SUBGRADE SOILS EXPERIENCE PUMPING AND SOIL STRENGTH LOSS DURING THE COMPACTION OPERATIONS, COMPACTION WORK SHOULD BE IMMEDIATELY TERMINATED AND (1) THE DISTURBED SOILS REMOVED AND BACKFILLED WITH DRY STRUCTURAL FILL SOILS WHICH ARE THEN COMPACTED, OR (2) THE EXCESS PORE PRESSURES WITHIN THE DISTURBED SOILS ALLOWED TO DISSIPATE BEFORE RECOMPACTING.
- 8. TO AVOID PUMPING OF THE UNDERLAYING CLAYEY SOILS. SELF PROP-ELLED VIBRATING EQUIPMENT SHALL REMAIN A MINIMUM OF 2 FEET ABOVE THE CLAYEY SOILS. THE SANDY SOILS WITHIN 2 FEET OF THE CLAYEY SOILS MAY BE COMPACTED WITH A VIBRATORY ROLLER.
- 9. OPERATE IN THE STATIC MODE OR WITH A TRACK-MOUNTED DOZER TO AVOID DISTURBING THE CLAYEY SOILS. A MINIMUM OF 18 INCHES OF SAND SHALL OVERLAY THE CLAYEY SOILS PRIOR TO OPERATION OF ANY TYPE OF CONSTRUCTION EQUIPMENT. EXCESS DISTURBANCE OF THE CLAYEY SOILS WILL DEGRADE THE STRENGTH CHARACTERISTICS OF THE SOIL AND MAY RESULT IN AN UNSUITABLE SOIL WHICH WILL REQUIRE OVER-EXCAVATION AND SUBSEQUENT BACKFILLING WITH CLEAN FINE SAND FILL MATERIAL. IN AREAS WHERE CLAYEY SOILS ARE ENCOUNTERED NEAR THE GROUND SURFACE OR ARE EXPOSED BY OVER EXCAVATION, AN INITIAL LIFT OF STRUCTURAL FILL MAY BE PLACED PRIOR TO COMPACTION OF THE SUBGRADE SOILS.
- 10. DUE TO THE PRESENCE OF THE NEAR SURFACE CLAYEY SOILS, THE SITE MAY BECOME DIFFICULT TO WORK DURING WET WEATHER. IF CONSTRUCTION IS BEGUN DURING WET WEATHER, IT IS RECOMMENDED THE BUILDING AND PAVEMENT SUBGRADES NOT BE DISTURBED OTHER THAN TO STRIP VEGETATION. FILL AND GRADING OPERATIONS SHOULD BE PERFORMED WITH A MINIMUM DISTURBANCE TO THE SURFICIAL SOILS. IN THIS REGARD, IT IS RECOMMENDED THAT TRACK-MOUNTED EQUIPMENT BE USED ON SITE.
- 11. TEST THE SUBGRADE FOR COMPACTION AT A FREQUENCY OF NOT LESS THAN ONE TEST PER 10,000 SQUARE FEET.
- 12. PLACE FILL MATERIAL, AS REQUIRED. THE FILL SHOULD CONSIST OF CLEAN, FINE SAND WITH LESS THAN 10 PERCENT SOIL FINES. PLACE FILL IN UNIFORM 10 TO 12 INCH LOOSE LIFTS AND COMPACT EACH LIFT TO A MINIMUM DENSITY OF 98 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY.

S HI SOUTH S	ST. AUGUSTINE, FL		FNONFERING SFRVICES INC PHONE (904)794	FAX = (904)794		quoc@majengineer.	
					LICENSED ENGINEER	QUOC H. MAI	FL.#64006 CA#28162
REVISIONS	REFERON	18/17/22 REVISION PER CITY REQUEST	O4/18/2083 REVISION PER CITY AND MAD RAI	Н	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
GENERAL NOTES			<b>Q</b>	GREEN COVE SPRINGS, FLORIDA	AV3 U3AVG3AG		KIVER OAKS COIDOOK, LLC
SEET SEET							

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DATE: 8/10/2023

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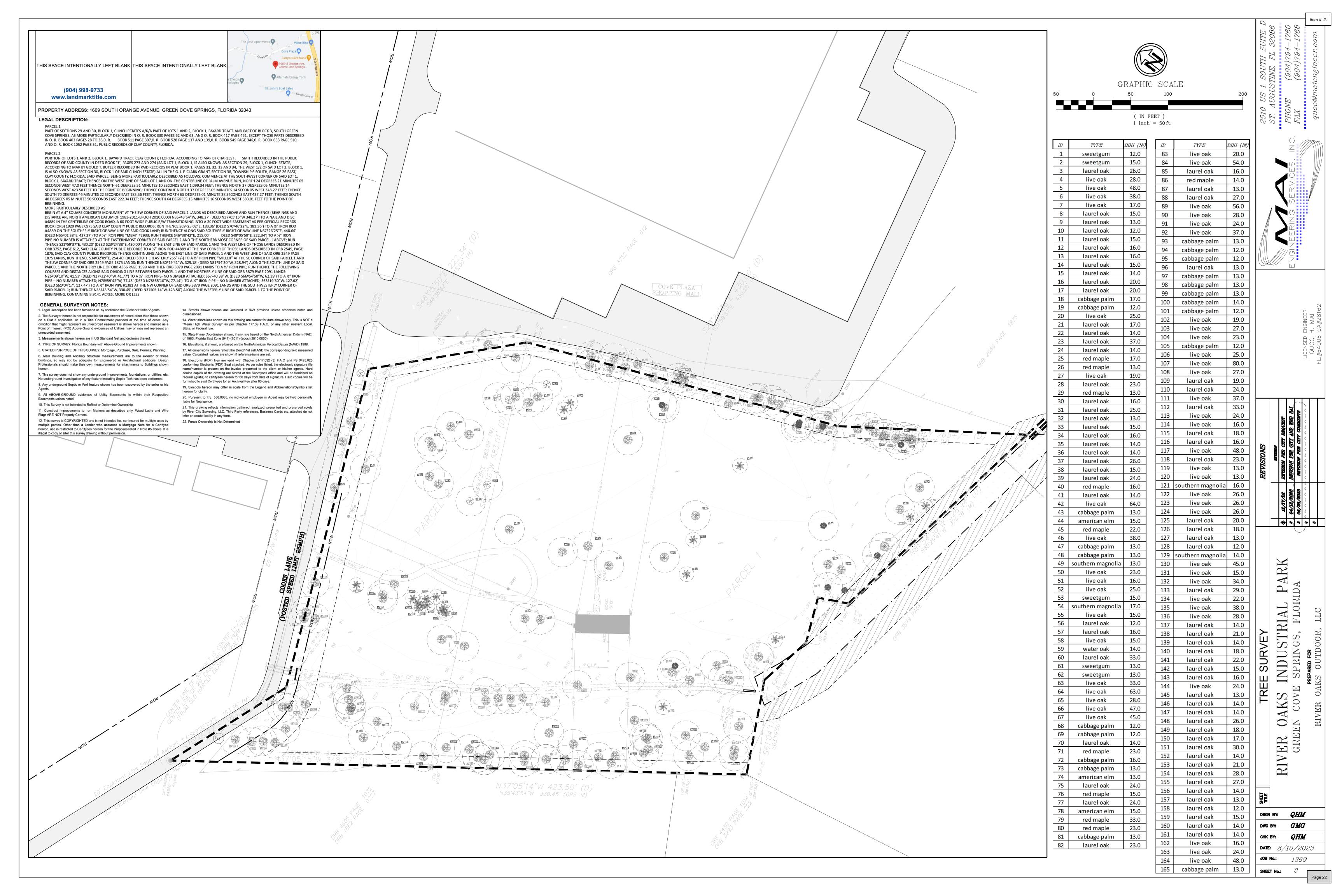
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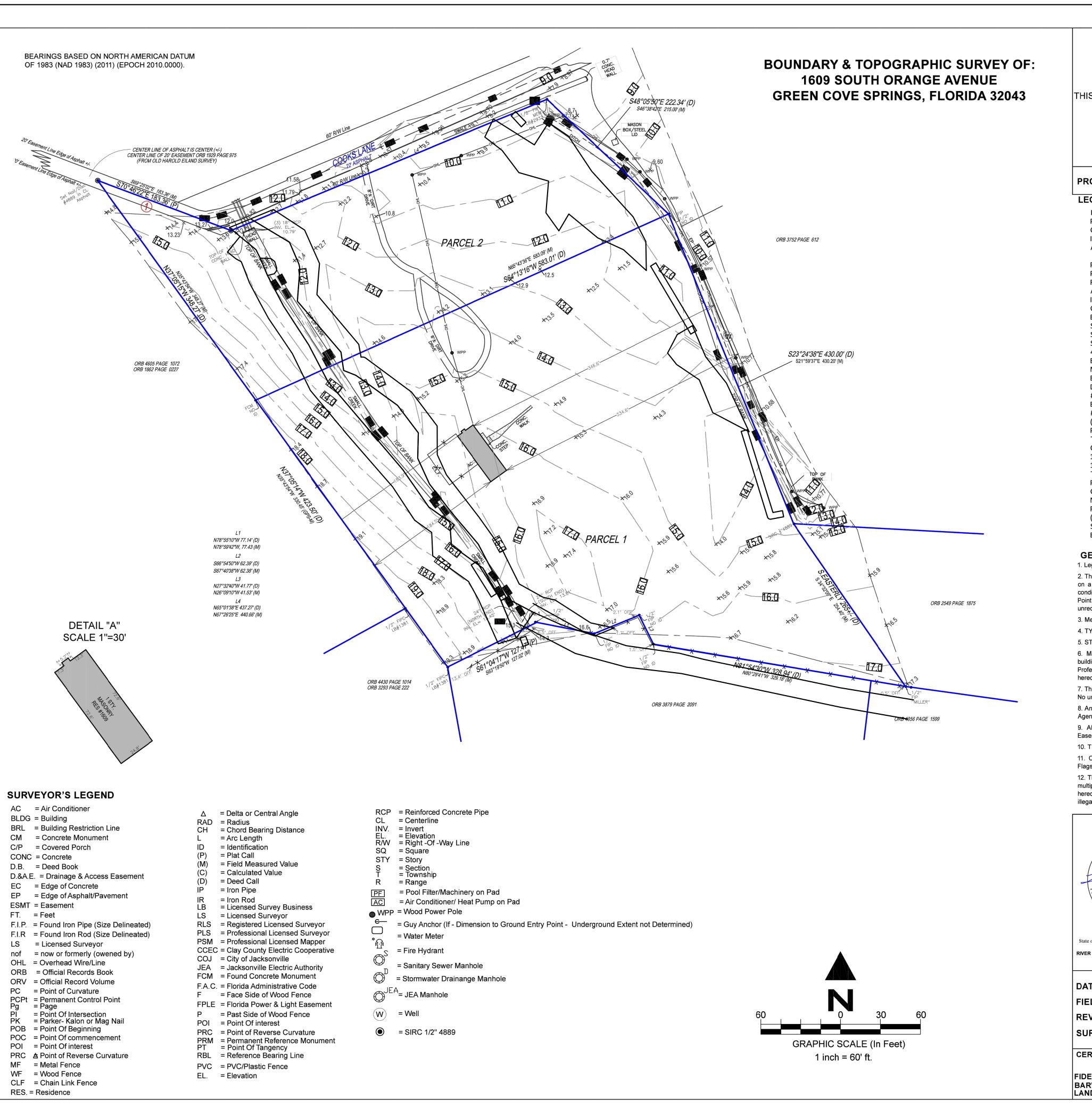
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Item # 2.





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Larry's Giant Subs Alternate Energy Tech. St. John's Boat Sales (904) 998-9733

PROPERTY ADDRESS: 1609 SOUTH ORANGE AVENUE, GREEN COVE SPRINGS, FLORIDA 32043

#### LEGAL DESCRIPTION:

www.landmarktitle.com

#### PARCEL 1

PART OF SECTIONS 29 AND 30, BLOCK 1, CLINCH ESTATES A/K/A PART OF LOTS 1 AND 2, BLOCK 1, BAYARD TRACT, AND PART OF BLOCK 3, SOUTH GREEN COVE SPRINGS, AS MORE PARTICULARLY DESCRIBED IN O. R. BOOK 330 PAGES 62 AND 63, AND O. R. BOOK 417 PAGE 451, EXCEPT THOSE PARTS DESCRIBED IN O. R. BOOK 403 PAGES 28 TO 36,0. R. BOOK 511 PAGE 397,0. R. BOOK 528 PAGE 137 AND 139,0. R. BOOK 549 PAGE 346,0. R. BOOK 653 PAGE 510, AND O. R. BOOK 1052 PAGE 51, PUBLIC RECORDS OF CLAY COUNTY, FLORIDA.

PORTION OF LOTS 1 AND 2, BLOCK 1, BAYARD TRACT, CLAY COUNTY, FLORIDA, ACCORDING TO MAP BY CHARLES F. SMITH RECORDED IN THE PUBLIC RECORDS OF SAID COUNTY IN DEED BOOK "J". PAGES 273 AND 274 (SAID LOT 1, BLOCK 1, IS ALSO KNOWN AS SECTION 29, BLOCK 1, CLINCH ESTATE. ACCORDING TO MAP BY GOULD T. BUTLER RECORDED IN PAID RECORDS IN PLAT BOOK 1, PAGES 31, 32, 33 AND 34, THE WEST 1/2 OF SAID LOT 2, BLOCK 1, IS ALSO KNOWN AS SECTION 30, BLOCK 1 OF SAID CLINCH ESTATE) ALL IN THE G. I. F. CLARK GRANT, SECTION 38, TOWNSHIP 6 SOUTH, RANGE 26 EAST, CLAY COUNTY, FLORIDA; SAID PARCEL. BEING MORE PARTICULARLY, DESCRIBED AS FOLLOWS: COMMENCE AT THE SOUTHWEST CORNER OF SAID LOT 1, BLOCK 1, BAYARD TRACT; THENCE ON THE WEST LINE OF SAID LOT 1 AND ON-THE CENTERLINE OF PALM AVENUE RUN, NORTH 24 DEGREES 21 MINUTES 05 SECONDS WEST 47.0 FEET THENCE NORTH 61 DEGREES 51 MINUTES 10 SECONDS EAST 1,099.34 FEET; THENCE NORTH 37 DEGREES 05 MINUTES 14 SECONDS WEST 423.50 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE NORTH 37 DEGREES 05 MINUTES 14 SECONDS WEST 348.27 FEET; THENCE SOUTH 70 DEGREES 46 MINUTES 22 SECONDS EAST 183.36 FEET; THENCE NORTH 65 DEGREES 01 MINUTE 38 SECONDS EAST 437.27 FEET; THENCE SOUTH 48 DEGREES 05 MINUTES 50 SECONDS EAST 222.34 FEET; THENCE SOUTH 64 DEGREES 13 MINUTES 16 SECONDS WEST 583.01 FEET TO THE POINT OF BEGINNING.

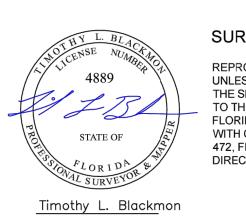
BEGIN AT A 4" SQUARE CONCRETE MONUMENT AT THE SW CORNER OF SAID PARCEL 2 LANDS AS DESCRIBED ABOVE AND RUN THENCE (BEARINGS AND DISTANCE ARE NORTH AMERICAN DATUM OF 1983-2011-EPOCH 2010.0000) N35º43'54"W, 348.27' (DEED N37º05'15"W 348.27') TO A NAIL AND DISC #4889 IN THE CENTERLINE OF COOK ROAD, A 60 FOOT WIDE PUBLIC R/W TRANSITIONING INTO A 20 FOOT WIDE EASEMENT AS PER OFFICIAL RECORDS BOOK (ORB) 1929 PAGE 0975 SAID CLAY COUNTY PUBLIC RECORDS; RUN THENCE S69º25'02"E, 183.36' (DEED S70º46'22"E, 183.36') TO A ½" IRON ROD #4889 ON THE SOUTHERLY RIGHT-OF-WAY LINE OF SAID COOK LANE; RUN THENCE ALONG SAID SOUTHERLY RIGHT-OF-WAY LINE N67º26'25"E, 440.66' (DEED N65º01'38"E, 437.27') TO A ½" IRON PIPE "MEM" #2933; RUN THENCE S46º38'42"E, 215.00' ( DEED S48º05'50"E, 222.34') TO A ½" IRON PIPE-NO NUMBER IS ATTACHED AT THE EASTERNMOST CORNER OF SAID PARCEL 2 AND THE NORTHERNMOST CORNER OF SAID PARCEL 1 ABOVE; RUN THENCE S21º59'37"E, 430.20' (DEED S23º24'38"E, 430.00') ALONG THE EAST LINE OF SAID PARCEL 1 AND THE WEST LINE OF THOSE LANDS DESCRIBED IN 1875, SAID CLAY COUNTY PUBLIC RECORDS; THENCE CONTINUING ALONG THE EAST LINE OF SAID PARCEL 1 AND THE WEST LINE OF SAID ORB 2549 PAGE 1875 LANDS, RUN THENCE S34º32'09"E, 254.40' (DEED SOUTHEREASTERLY 265' +/-) TO A ½" IRON PIPE "MILLER" AT THE SE CORNER OF SAID PARCEL 1 AND THE SW CORNER OF SAID ORB 2549 PAGE 1875 LANDS; RUN THENCE N80º29'41"W, 329.18' (DEED N81º54'30"W, 328.94') ALONG THE SOUTH LINE OF SAID PARCEL 1 AND THE NORTHERLY LINE OF ORB 4356 PAGE 1599 AND THEN ORB 3879 PAGE 2091 LANDS TO A ½" IRON PIPE; RUN THENCE THE FOLLOWING COURSES AND DISTANCES ALONG SAID DIVIDING LINE BETWEEN SAID PARCEL 1 AND THE NORTHERLY LINE OF SAID ORB 3879 PAGE 2091 LANDS: N26º09'10"W, 41.53' (DEED N27º32'40"W, 41.77') TO A ½" IRON PIPE- NO NUMBER ATTACHED; S67º40'38"W, (DEED S66º54'50"W, 62.39') TO A ½" IRON PIPE – NO NUMBER ATTACHED; N78º59'42"W, 77.43' (DEED N78º55'10"W, 77.14') TO A ½" IRON PIPE – NO NUMBER ATTACHED; S63º19'50"W, 127.02' (DEED S61º04'17", 127.47') TO A ½" IRON PIPE #1381 AT THE NW CORNER OF SAID ORB 3879 PAGE 2091 LANDS AND THE SOUTHWESTERLY CORNER OF SAID PARCEL 1; RUN THENCE N35º43'54"W, 330.45' (DEED N37º05'14"W, 423.50') ALONG THE WESTERLY LINE OF SAID PARCEL 1 TO THE POINT OF BEIGINNING. CONTAINING 8.9141 ACRES, MORE OR LESS

### **GENERAL SURVEYOR NOTES:**

- 1. Legal Description has been furnished or by confirmed the Client or His/her Agents. 2. The Surveyor hereon is not responsible for easements of record other than those shown
- condition that might represent an unrecorded easement is shown hereon and marked as a Point of Interest. (POI) Above-Ground evidences of Utilities may or may not represent an unrecorded easement.
- 3. Measurements shown hereon are in US Standard feet and decimals thereof.
- 4. TYPE OF SURVEY: Florida Boundary with Above-Ground Improvements shown.
- 5. STATED PURPOSE OF THIS SURVEY: Mortgage, Purchase, Sale, Permits, Planning. 6. Main Building and Ancillary Structure measurements are to the exterior of those
- buildings, so may not be adequate for Engineered or Architectural additions. Design Professionals should make their own measurements for attachments to Buildings shown
- 7. This survey does not show any underground improvements, foundations, or utilities, etc. No underground investigation of any feature including Septic Tank has been performed. 8. Any underground Septic or Well feature shown has been uncovered by the seller or his
- 9. All ABOVE-GROUND evidences of Utility Easements lie within their Respective Easements unless noted.
- 10. This Survey is not intended to Reflect or Determine Ownership.
- 11. Construct Improvements to Iron Markers as described only. Wood Laths and Wire Flags ARE NOT Property Corners.
- 12. This survey is COPYRIGHTED and is not intended for, nor Insured for multiple uses by multiple parties. Other than a Lender who assumes a Mortgage Note for a Certifyee hereon, use is restricted to Certifyees hereon for the Purposes listed in Note #5 above. It is illegal to copy or alter this survey drawing without permission.

- 13. Streets shown hereon are Centered in R/W provided unless otherwise noted and
- 14. Water shorelines shown on this drawing are current for date shown only. This is NOT a "Mean High Water Survey" as per Chapter 177.39 F.A.C. or any other relevant Local, State, or Federal rule.
- 15. State Plane Coordinates shown, if any, are based on the North American Datum (NAD)
- of 1983, Florida East Zone (941)-(2011)-(epoch 2010.0000) 16. Elevations, if shown, are based on the North American Vertical Datum (NAVD) 1988. 17. All dimensions hereon reflect the Deed/Plat call AND the corresponding field measured
- value. Calculated values are shown if reference irons are set. 18. Electronic (PDF) files are valid with Chapter 5J-17.032 (3) F.A.C and FS 0425.025 conforming Electronic (PDF) Seal attached. As per rules listed, the electronic signature file name/number is present on the invoice presented to the client or his/her agents. Hard sealed copies of the drawing are stored at the Surveyor's office and will be furnished on
- request (gratis) to certifyees hereon for 60 days from date of signature. Hard copies will be furnished to said Certifyees for an Archival Fee after 60 days. 19. Symbols hereon may differ in scale from the Legend and Abbreviations/Symbols list
- hereon for clarity. 20. Pursuant to F.S. 558.0035, no individual employee or Agent may be held personally
- liable for Negligence. 21. This drawing reflects information gathered, analyzed, presented and preserved solely by River City Surveying, LLC. Third Party references, Business Cards etc. attached do not
- 22. Fence Ownership is Not Determined

infer or create liability in any form.



### SURVEYORS CERTIFICATION:

REPRODUCTIONS OF THIS SKETCH ARE NOT VALID UNLESS SEALED WITH FLORIDA PSM EMBOSSED SEAL. THE SKETCH OF SURVEY DEPICTED HEREON CONFORMS TO THE STANDARDS OF PRACTICE SET FORTH BY THE FLORIDA BOARD OF LAND SURVEYORS IN ACCORDANCE WITH CHAPTER 5J-17.050-17.053, PURSUANT TO CHAPTER 472, FLORIDA STATUTES, AND WAS DONE UNDER MY DIRECT SUPERVISION.

State of Florida Professional Surveyor and Mapper **RIVER CITY SURVEYING & MAPPING I LB#8484**  POINTS OF INTEREST:

1) ASPHALT STREET IN EASEMENT ALONG NORTH LINE IN THIS AREA

**DATE SIGNED:** 08/17/2022 **FIELD WORK DATE:** 08/01/2022

**REVISION DATE(S):** 08/17/2022 SURVEY NUMBER: 051722.1

**CERTIFIED TO:** 

FIDELITY NATIONAL TITLE INSURANCE COMPANY BARWICK BANKING COMPANY, ISAOA ATIMA LANDMARK TITLE



RIVER CITY SURVEYING & MAPPING 904-487-9054 | F. 904-998-9736 7220 FINANCIAL WAY | JACKSONVILLE, FL 32256

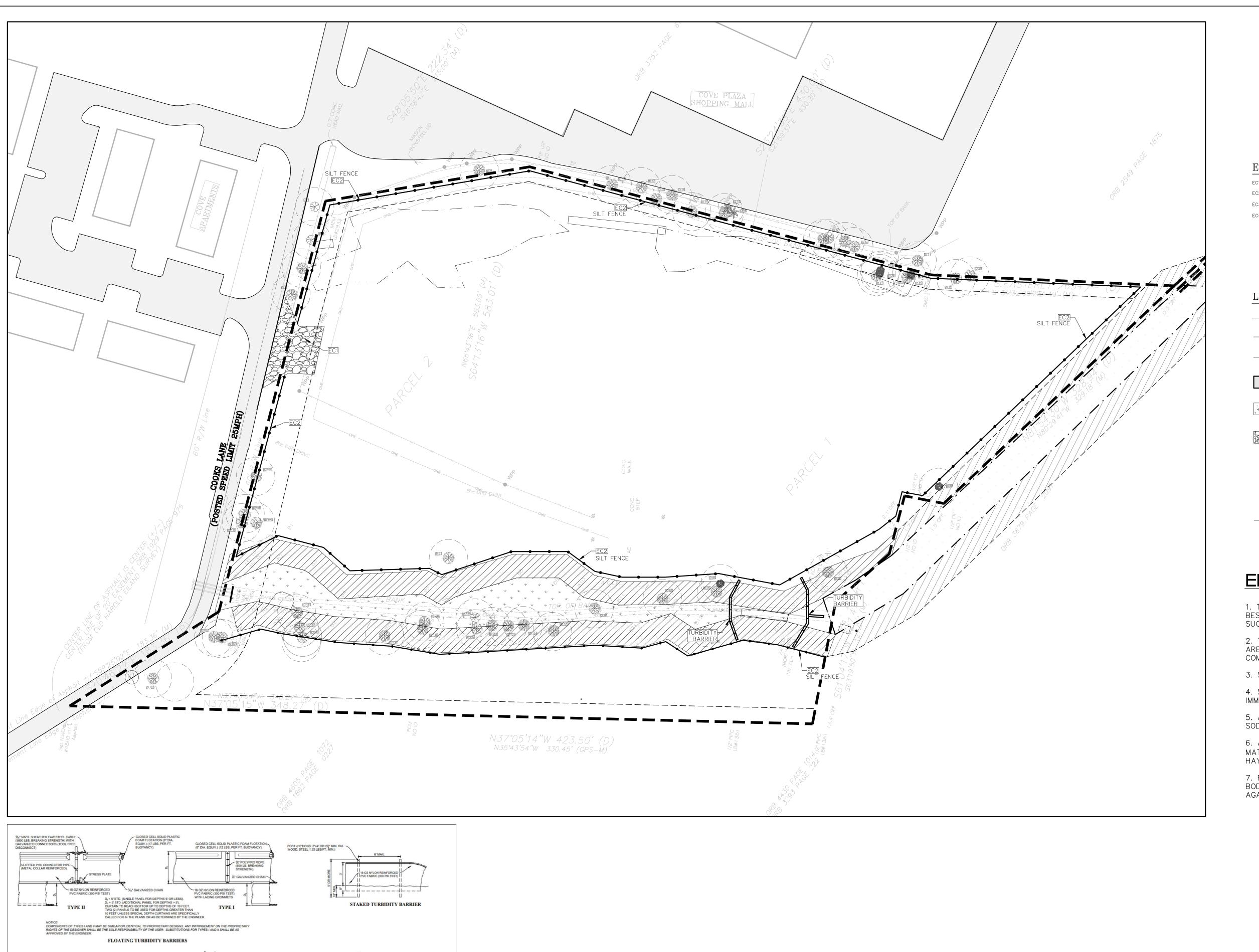
PAGE 1 OF 1

QHMDSGN BY: DWG BY: CHK BY: DATE: 8/10/2023JOB No.: 1369

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LIMITS OF CONSTRUCTION

GENERAL NOTES

FLOATING TURBIDITY BARRIERS ARE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR FLOATING TURBIDITY BARRIER, LF.

STAKED TURBIDITY BARRIERS ARE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED TURBIDITY BARRIER, LF.

LEGEND PILE LOCATIONS DREDGE OR FILL AREA

- ANCHOR

- MOORING BUOY W/ANCHOR

SARRIER MOVEMENT DUE TO CURRENT ACTION

TURBIDITY BARRIERS ARE TO BE USED IN ALL PERMANENT BODIES OF WATER REGARDLESS OF WATER DEPTH.

CURRENT STRUCTURE ALIGNMENT

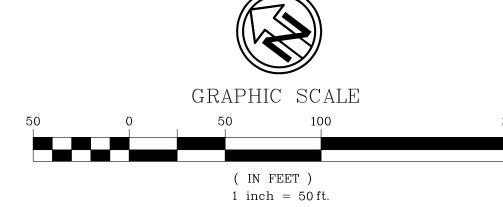
TURBIDITY BARRIER APPLICATIONS

TURBILITY BARRIER DETAIL EC4

NUMBER AND SPACING OF ANCHORS DEPENDENT ON CURRENT VELOCITIES.

NAVIGATION MAY REQUIRE SEGMENTING BARRIER DURING CONSTRUCTION OPERATIONS.

FOR ADDITIONAL INFORMATION SEE SECTION 104 OF THE STANDARD SPECIFICATIONS.



### EROSION CONTROL DETAILS

LEGEND

\_\_\_\_\_ PROPERTY LINE ROADWAY CENTERLINE

DRAINAGE EASEMENT

PROPOSED CONCRETE

PROPOSED PAVEMENT

PROPOSED GRAVEL

TURBIDITY BARRIER

### **EROSION CONTROL NOTES:**

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION CONTROL WITHIN BEST MANAGEMENT PRACTICES FOR THE DURATION OF THE PROJECT UNTIL SUCH TIME AS THE PROJECT HAS BEEN CERTIFIED AS COMPLETE.

2. THE CONTRACTOR SHALL SEED & MULCH OR SOD ALL OPEN SPACE AREAS TO BE GRASSED IMMEDIATELY FOLLOWING FINAL GRADING AND COMPLETION OF ALL UNDERGROUND UTILITIES.

3. SILT FENCES SHALL BE INSTALLED ALONG LIMITS OF CONSTRUCTION .

4. SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL AND REPAIRED IMMEDIATELY IF DAMAGED.

5. ALL SIDE SLOPES OF STORM WATER MANAGEMENT AREAS SHALL BE SODDED UPON COMPLETION OF FINAL GRADING.

6. ALL INLETS SHALL BE PROTECTED FROM COLLECTION OF ERODED

MATERIALS BY INSTALLATION OF TEMPORARY FILTER FABRIC AND/OR HAYBALES.

7. FLOATING TURBIDITY BARRIERS SHALL BE INSTALLED WITHIN ALL WATER BODIES DOWNSTREAM OF CONSTRUCTION ACTIVITIES WHERE PROTECTION AGAINST TURBID WATERS DISCHARGE MAY OCCUR.

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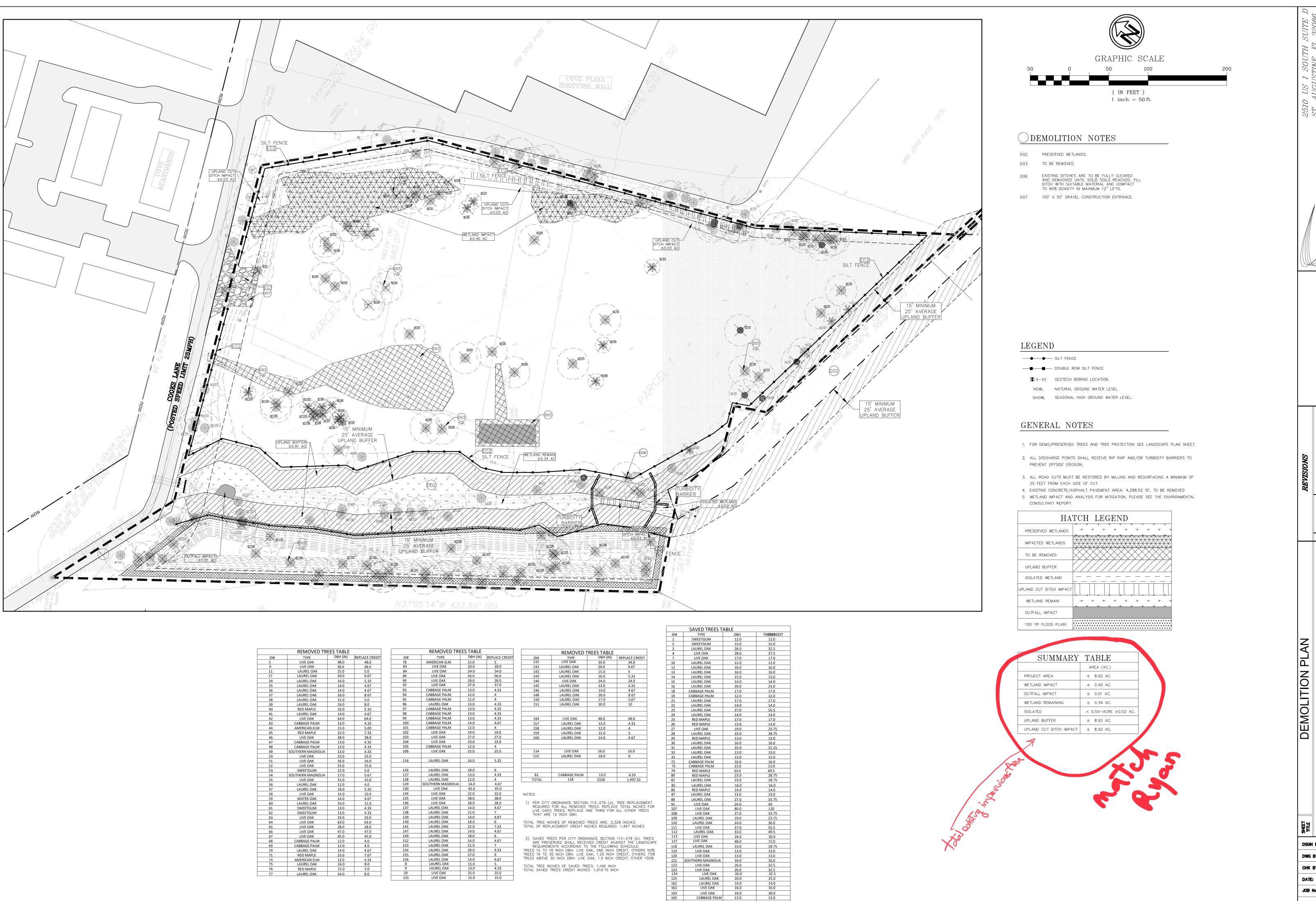
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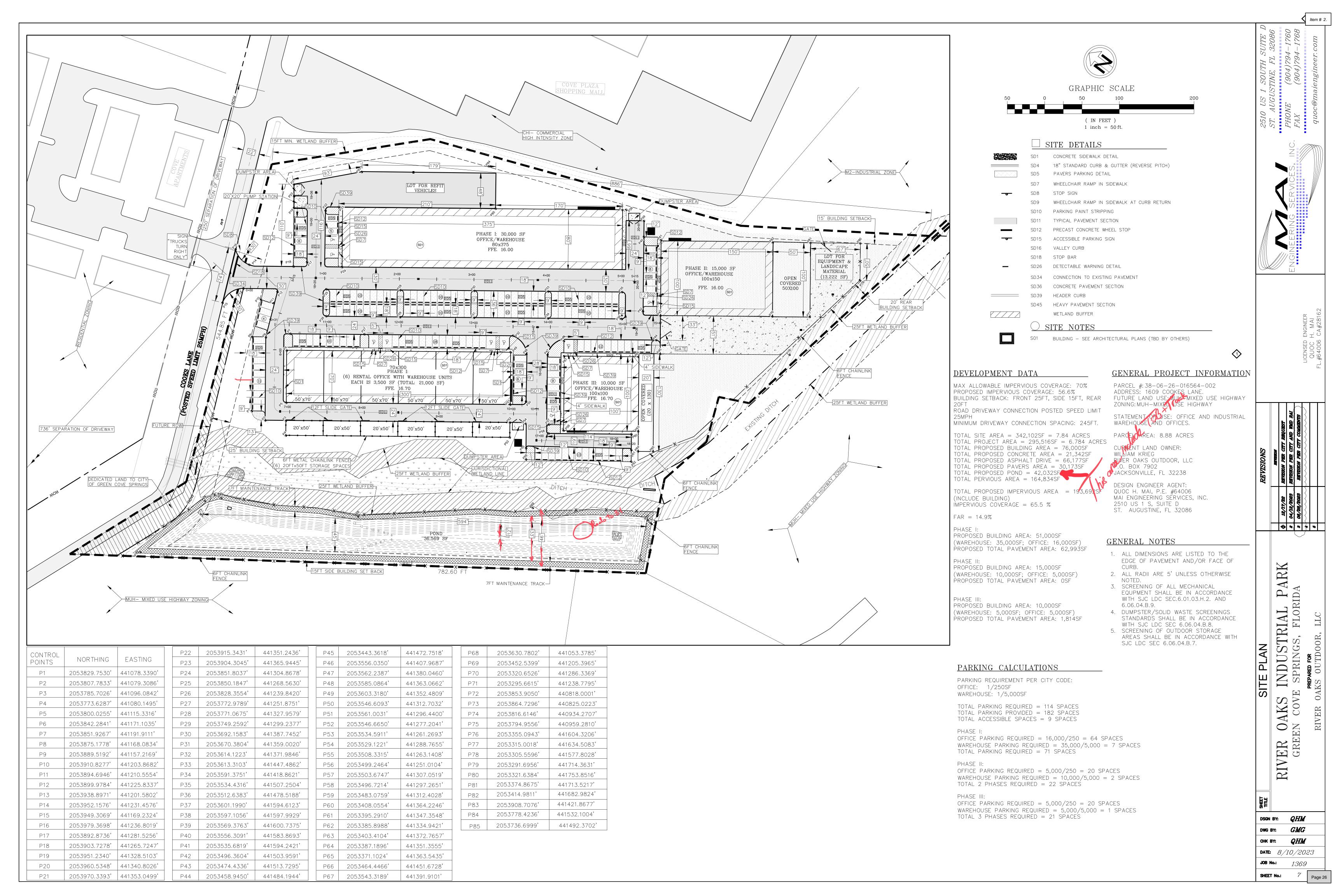
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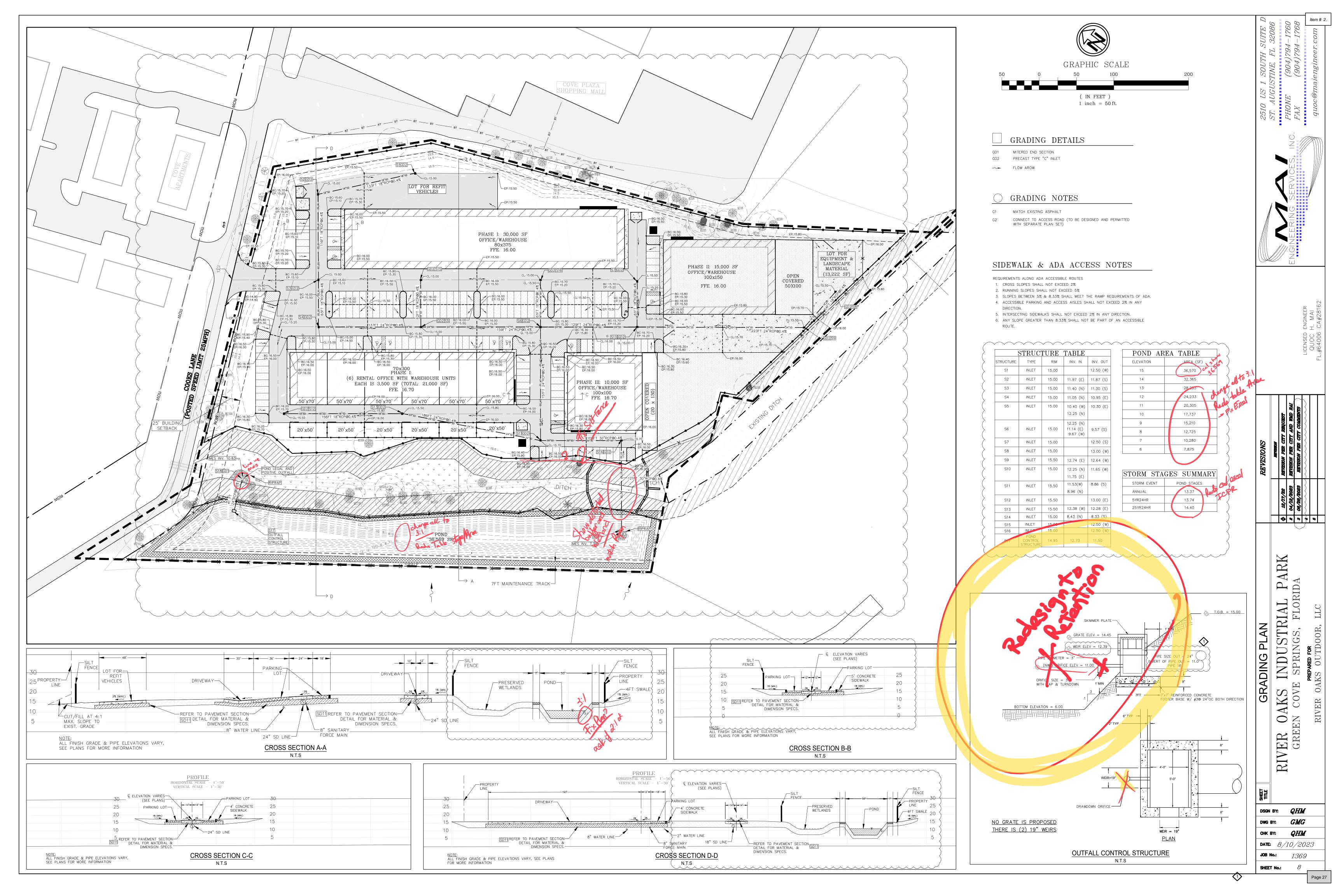
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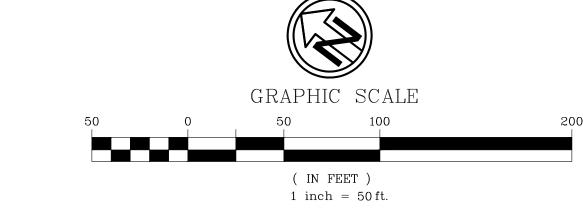
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UTILITY DETAILS-WATER & SEWER

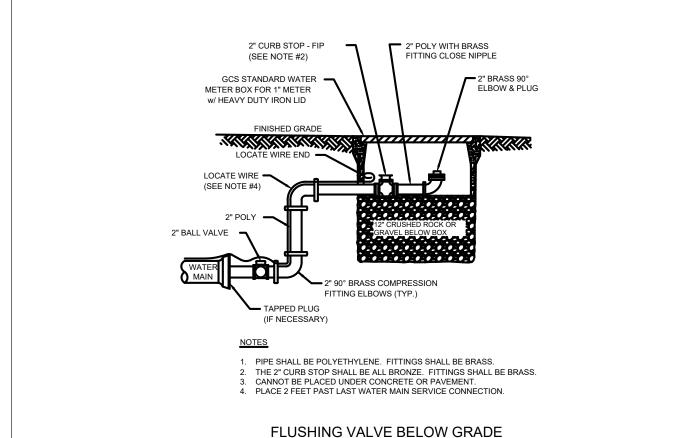
SANITARY SEWER MANHOLE FRAME & COVER FIRE HYDRANT INSTALLATION

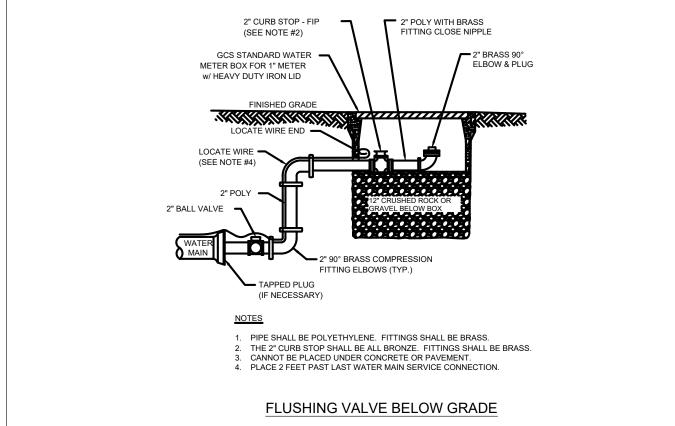
GATE VALVE AND BOX

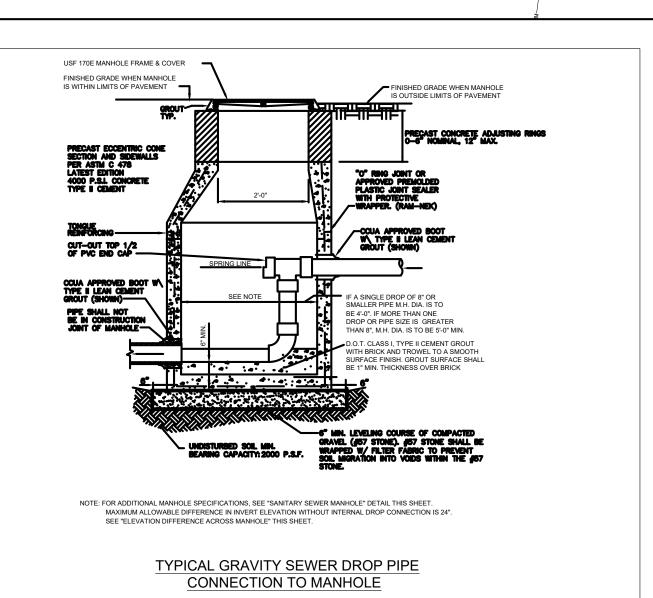
### ) UTILITY NOTES

- FDC CONNECTION TO BUILDING, AT MAX 100FT FROM HYDRANT.
- PROPOSED LOCATION FOR WATER SERVICE LATERAL TO TIE INTO BUILDING.
- PROPOSED LOCATION FOR SANITARY SERVICE LATERAL TO TIE INTO BUILDING.

SANI	TARV	CEWE	P STE	RUCTURE	י דאפור
DAINI	RIM		INV. OUT	NORTHING	EASTING
MH1	15.50	IIIV. III	13.50 (W)	2053513.2381	441436.0417'
MH2	15.10	12.60 (E)	12.50 (W)	2053694.7740'	441300.5134
мнз	14.30	11.78 (E)	11.68 (N)	2053839.8280'	441190.9021







4" VALVE

PVD FM UNDER DRIVEWAY VIA

HORIZONTAL DIRECTIONAL DRILL

WITH MIN 40" COVER. MAX 6"

CONNECT PROPOSED 8" PVC WM TO-EXISTING 12" PVC WM VIA 12"x8" TAPPING SLEEVE, W/ 8" GATE VALVE W/ BOX AND

COVER PER CITY STANDARD.

WATER MAIN

EX. NEAREST

CONNECT PROPOSED 4" FUSIBLE PVC FM TO EXISTING 4" FM VIA 4"x4" TAPPING SLEEVE W/ 4" BALL VALVE W/ BOX AND COVER PER

INSTALL PROPOSED 4" FUSIBLE

PVC FM UNDER ROADWAY VIA

HORIZONTAL DIRECTIONAL DRILL WITH MIN 40" COVER. MAX 6"

75"WM 12"WM BT 12"WM BT 12"WM

(SEE DETAIL SHEET)

-PROPOSED SEWER LIFT STA

RIM: 15.20

INV. IN: 10.98 (N)

PROPOSED HYDRANT 200FT COVERAGE RADIUS (REQUIRED 330FT MAX TO ANY POINT OF

ENTRY-MEASURE STRAIGHT

PHASE 1: 30,000 SF

OFFICE/WAREHOUSE

FFE. 16.00

NV. OUT: 12.50

/50'x70'

SERVICE ENTRANCE LOCATION. 1600A,

PROPOSED UTILITY CO. PAD

3Ph, 4W SECONDARY.

MOUNTED TRANSFORMER. 208Y/120V,

208Y/120V, 3Ph, 4W. ANTICIPATED

50′x70′

7FT MAINTENANCE TRACK

ALONG ROADWAY)

LOT FOR REFIT VEHICLES

\$\frac{1}{2} \frac{1}{2} \frac

RENTAL OFFICE WITH WAREHOUSE UNITS

/ 50<sup>°</sup>x70<sup>°</sup>

| NV. IN: 11.78 (E) | EACH IS 3,500 SF (TOTAL: 21,000 SF) \

/50'x70'/

NV. OUT: 11.68 (S)

50'x70'

18"SD 18"SD 18"SD 18"SD 18"SD 24"SD

/50'x70' /

20'x50'

HOPPING MALL

BUILDING "A"

PRIVATE

HYDRANT

BUILDING "D"

PHASE III: 10,000 SF

OFFICE/WAREHOUSE 100x100FFE. 16.70

8" SAN INV: 13.64

30"SD 30"SD 30"SD 30"SD 30"SD 30"SD

BUILDING "A"-PROPOSED ELECTRICAL SERVICE ENTRANCE LOCATION. 2000A,

208Y/120V, 3Ph, 4W. ANTICIPATED

RIM: 15.50

NV. OUT: 13.50 (W)

ROPOSED UTILITY CO. PAD MOUNTED

PHASE II: 15,000 SF

100x150

FFE. 16.00

BUILDING "C"

BUILDING "D"-PROPOSED ELECTRICAL

SERVICE ENTRANCE LOCATION. 800A,

208Y/120V, 3Ph, 4W. ANTICIPATED

CONNECTED LOAD OF 200KW.

OFFICE/WAREHOUSE

TRANSFORMER. 208Y/120V, 3Ph, 4W SECONDARY.

OPEN

COVERED

50X100

BUILDING "C"-PROPOSED ELECTRICAL SERVICE ENTRANCE LOCATION. 1200A, 208Y/120V, 3Ph, 4W. ANTICIPATED CONNECTED LOAD OF 275KW.

LOT FOR

LANDSCAPE

MATERIAL

(13,222 SF)

LAYOUT AND LOAD CALCULATIONS BY:

MAY - BLANKENBEKER, INC.

CONTACT: DOUG BLANKENBEKER

WITH ANY QUESTIONS REGARDING ELECTRICAL

CONSULTING ENGINEERS 1417 SADLER RD. SUITE 160 AMELIA ISLAND, FL 32034

6/5/2023

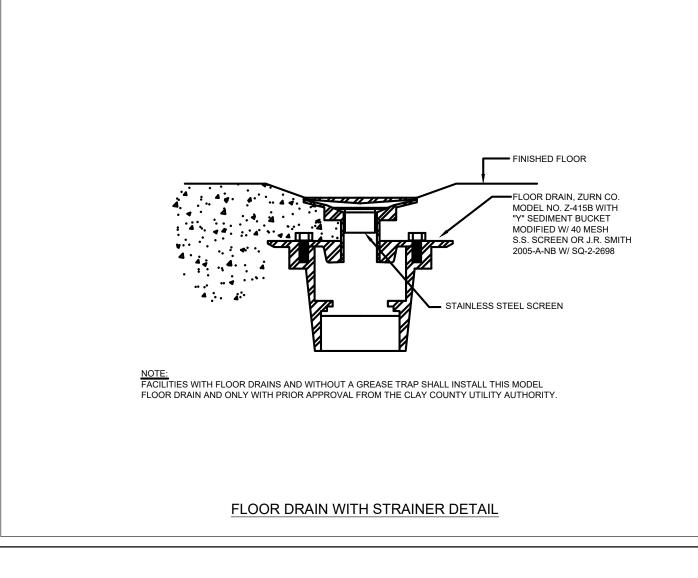
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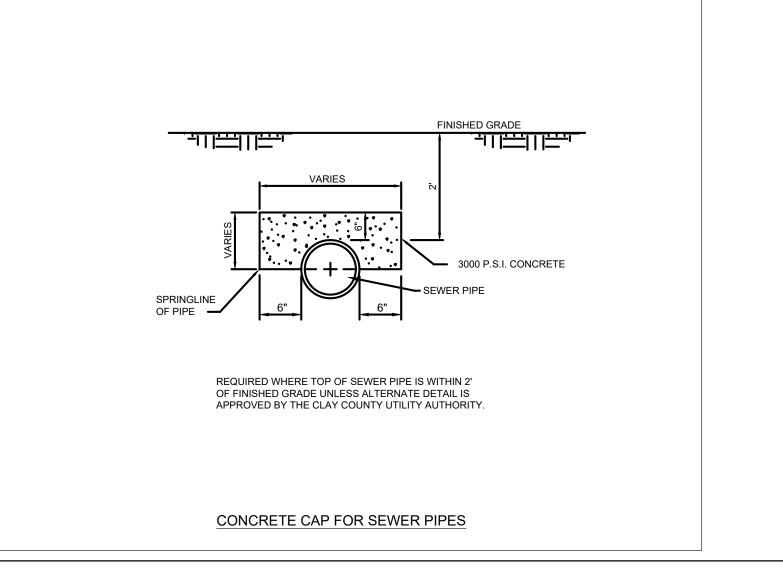
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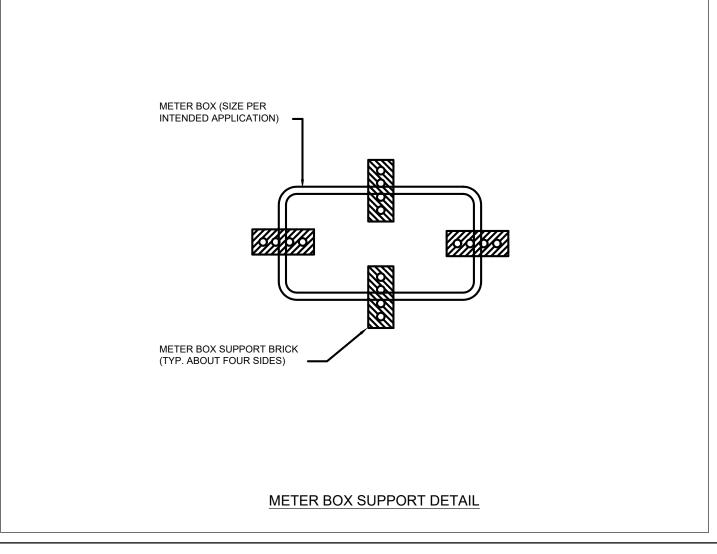
CONNECTED LOAD OF 550KW.

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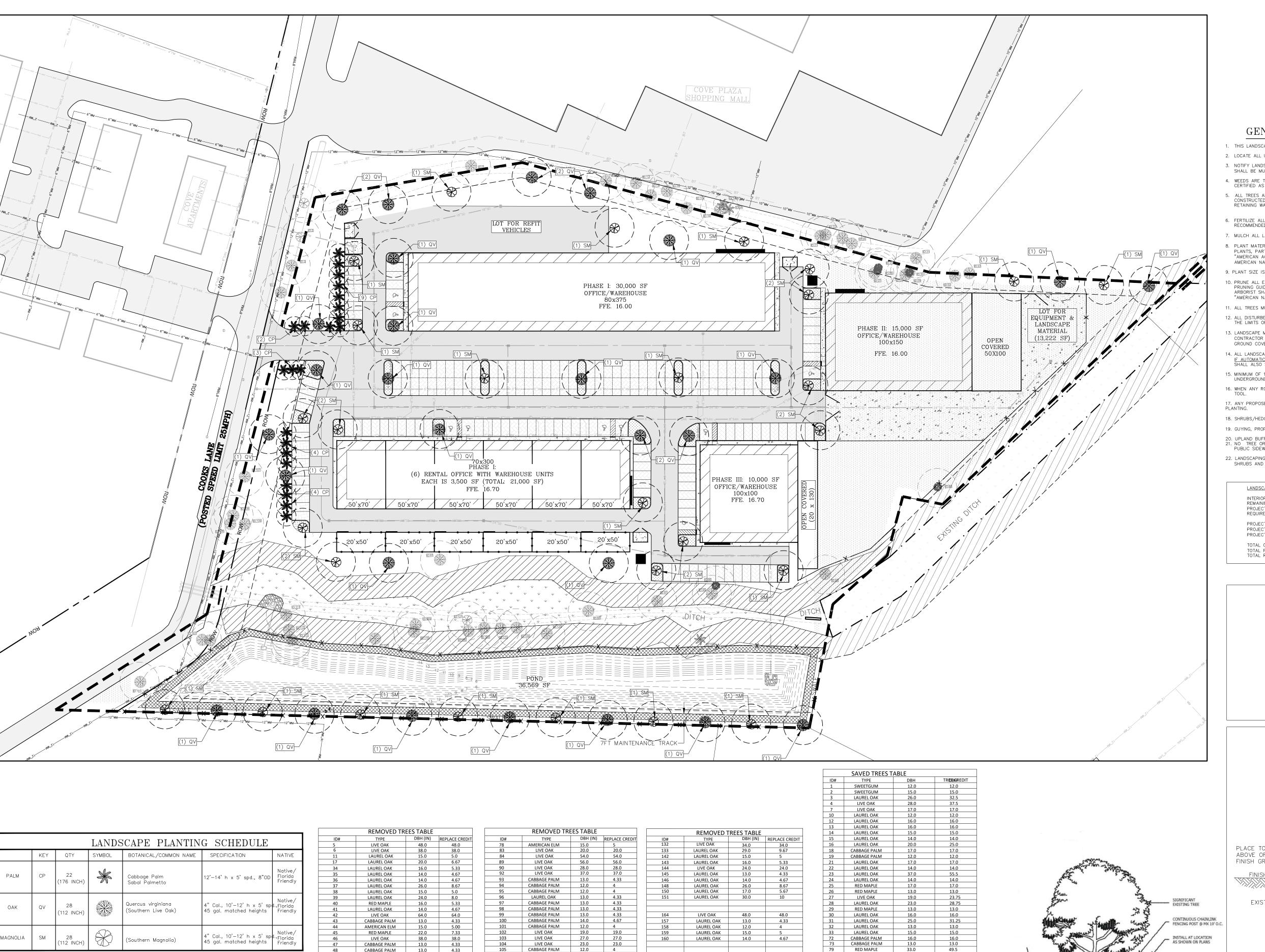


OZ

DSGN BY:

JOB No.:

DATE: 8/10/2023



LIVE OAK

CABBAGE PALM

1) PER CITY ORDINANCE SECTION 113-279 (a), TREE REPLACEMENT REQUIRED FOR ALL REMOVED TREES. REPLACE TOTAL INCHES FOR LIVE OAKS TREES. REPLACE ONE THIRD FOR ALL OTHER TREES THAT ARE 12 INCH DBH.

TOTAL TREE INCHES OF REMOVED TREES ARE: 2,328 INCHES TOTAL OF REPLACEMENT CREDIT INCHES REQUIRED: 1,497 INCHES

ARE PRESERVED SHALL RECEIVED CREDIT AGAINST THE LANDSCAPE REQUIREMENTS ACCORDING TO THE FOLLOWING SCHEDULE:

TREES 12 TO 18 INCH DBH: LIVE OAK, ONE INCH CREDIT, OTHERS 50%.

TREES 19 TO 30 INCH DBH: LIVE OAK, 1.25 INCH CREDIT, OTHERS 75%.

TREES ABOVE 30 INCH DBH: LIVE OAK, 1.5 INCH CREDIT, OTHER 100%

TOTAL TREE INCHES OF SAVED TREES: 1,166 INCH TOTAL SAVED TREES CREDIT INCHES: 1,519.75 INCH

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CABBAGE PALM

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LAUREL OAK

LIVE OAK

WATER OAK

SWEETGUM

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LIVE OAK

LIVE OAK

CABBAGE PALM

CABBAGE PALM

LAUREL OAK

RED MAPLE

AMERICAN ELM

LAUREL OAK

ADDITIONAL LANDSCAPE NOTES:

PLANTED LANDSCAPING.

THAN 20-30 FEET, DEPENDING ON SPECIES.

THAN SIX (6) INCHES FROM THE TREE TRUNK.

CONSTRUCTION DEBRIS OR UNSUITABLE MATERIALS.

a.VEGETATION THAT EXCEEDS TWENTY-FIVE (25) FEET IN HEIGHT AT MATURITY SHOULD NOT BE PLANTED CLOSER THAN

b.BALLED AND BURLAPPED STRAPPING WIRE, AND ANY SYNTHETIC MATERIAL SHALL BE REMOVED PRIOR TO FINAL INSPECTION.

c.NON-CANOPY TREES SHALL NOT BE PLANTED CLOSER THAN 10 FEET FROM OTHER TREES AND CANOPY TREES NO CLOSER

d.PLANT MATERIAL SHALL CONFORM TO THE STANDARDS FOR GRADE #1 OR BETTER AS GIVEN IN THE LATEST "GRADES AND

THE STANDARDS AS GIVEN IN THE LATEST "AMERICAN STANDARD FOR NURSERY STOCK," AMERICAN NATIONAL STANDARDS

STANDARDS FOR NURSERY PLANTS, PARTS I AND II," FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES OR TO

e.PINE BARK OR PINE STRAW MULCH SHALL BE PROVIDED A MINIMUM OF TWO TO THREE INCHES IN DEPTH AROUND ALL NEWLY

f. A MULCH RING FOR ALL NEWLY PLANTED TREES SHALL BE PROVIDED AT LEAST FIVE (5) FEET IN DIAMETER AND NOT CLOSER

FIFTEEN (15) FEET OF THE VERTICAL PLANE OF AN EXISTING POWER LINE, EXCLUDING SERVICE WIRES.

h.TREES SHALL HAVE A MINIMUM HEIGHT OF (8) EIGHT TO (10) FEET AND (2) TWO INCHES OF CALIPER.

k.TREES SHALL NOT BE PLANTED CLOSER THAN 7.5' FROM THE CENTERLINE OF UNDERGROUND UTILITIES.

j. SOIL IN TREE ISLANDS SHALL HAVE AT LEAST 12" OF SUITABLE SOIL FOR TREE PLANTINGS, AND BE VOID OF ANY

i. SHRUB LINES ARE TO BE PLANTED AT THE REQUIRED MINIMUM HEIGHT, NOT BY CONTAINER SIZE.

WIRE BASKETS SHOULD BE CUT AWAY FROM TOP ONE-THIRD OF ROOT BALL.

g.IRRIGATION WILL BE PROVIDED WITH AN AUTOMATIC IRRIGATION SYSTEM.

MINIMUM SIX (6) FOOT HIGH TEMPORARY CHAINLINK FENCE SHALL BE PLACED AT THE CRITICAL ROOT ZONE OR DESIGNATED LIMIT OF DISTURBANCE OF THE TREE TO BE SAVED. FENCE SHALL COMPLETELY ENCIRCLE TREE(S). INSTALL FENCE POSTS USING PIER BLOCK ONLY. AVOID POST OR STAKES INTO MAJOR ROOTS, MODIFICATIONS TO FENCING MATERIAL AND LOCATION MUST BE APPROVED BY PLANNING OFFICIAL.

TREATMENT OF ROOTS EXPOSED DURING CONSTRUCTION: FOR ROOTS OVER ONE (1) INCH DIAMETER DAMAGED DURING CONSTRUCTION, MAKE A CLEAN STRAIGHT CUT TO REMOVE DAMAGED PORTION OF ROOT. ALL EXPOSED ROOTS SHALL BE TEMPORARILY COVERED WITH DAMP BURLAP TO PREVENT DRYING AND COVERED WITH SOIL AS SOON AS POSSIBLE.

B. NO STOCKPILING OF MATERIALS, YEHICULAR TRAFFIC, OR STORAGE OF EQUIPMENT OR MACHINERY SHALL BE ALLOWED WITHIN THE LIMIT OF THE FENCING. FENCING SHALL NOT BE MOVED OR REMOVED UNLESS APPROVED BY THE CITY PLANNING OFFICIAL. WORK WITHIN PROTECTION FENCE SHALL BE DONE MANUALLY UNDER THE

SUPERVISION OF THE ON-SITE ARBORIST AND WITH PRIOR APPROVAL BY THE CITY PLANNING OFFICIAL.

## GRAPHIC SCALE ( IN FEET ) 1 inch = 50 ft.

### GENERAL LANDSCAPE NOTES

- 1. THIS LANDSCAPE PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE CLAY COUNTY LDC.
- 2. LOCATE ALL UTILITIES AND SITE LIGHTING CONDUITS BEFORE LANDSCAPE CONSTRUCTION BEGINS.
- 3. NOTIFY LANDSCAPE ARCHITECT OR DESIGNATED REPRESENTATIVE OF ANY LAYOUT DISCREPANCIES PRIOR TO ANY PLANTING, SINGLE TREES OR SHRUBS SHALL BE MULCHED TO THE OUTSIDE EDGE OF THE SAUCER OR LANDSCAPE ISLAND (SEE PLANTING DETAILS).
- 4. WEEDS ARE TO BE ADEQUATELY AND PROPERLY TREATED AND REMOVED PRIOR TO LANDSCAPE INSTALLATION. ALL SOIL AMENDMENTS SHOULD BE
- 5. ALL TREES AND SHRUBS ARE TO BE POSITIONED VERTICALLY REGARDLESS OF THE SLOPE OF THE GROUND IN WHICH THEY ARE PLANTED. BERMS ARE TO CONSTRUCTED AT RIGHT. ANGLES TO THE TREE OR SHRUB OR IN A MANNER IN WHICH THEY WILL MOST EFFECTIVELY SERVE THE PURPOSE OF RETAINING WATER AT THE BASE OF THE PLANT.
- 6. FERTILIZE ALL PLANTS AT THE TIME OF PLANTING WITH TIME RELEASE FERTILIZER. A QUALITY COMPOST / LEAF DEBRIS FROM A RELIABLE SOURCE IS RECOMMENDED IN ALL PLANTING AREAS.
- 7. MULCH ALL LANDSCAPE AREAS WITH 3" OF PINE STRAW MULCH UNLESS SPECIFIED OTHERWISE.
- 8. PLANT MATERIAL SHALL CONFORM TO THE STANDARDS FOR GRADE #1 OR BETTER AS GIVEN IN THE LATEST "GRADES AND STANDARDS FOR NURSERY PLANTS, PARTS I AND II", FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES OR TO THE STANDARDS AS GIVEN IN THE LATEST "AMERICAN AGRICULTURE AND CONSUMER SERVICES OR TO THE STANDARDS AS GIVEN IN THE LATEST "AMERICAN STANDARD FOR NURSERY STOCK, AMERICAN NATIONAL STANDARDS INSTITUTE".
- 9. PLANT SIZE IS TO TAKE PRECEDENCE OVER CONTAINER SIZE.
- 10. PRUNE ALL EXISTING SAVED TREES ON SITE TO A HEIGHT OF 15' ABOVE GRADE, AND REMOVE ALL DEAD WOOD, PRUNE TREES ACCORDING TO THE PRUNING GUIDELINES BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE, 1995 EDITION, IF ARBORIST BELIEVES A LIMB SHOULD NOT BE REMOVED THE ARBORIST SHALL CONTACT THE LANDSCAPE ARCHITECT. REMOVE ALL DEBRIS FROM THE SITE TO AN APPROVED OFF—SITE LOCATION. FOLLOW THE "AMERICAN NATIONAL STANDARDS FOR TREE CARE OPERATIONS" AND ANSI Z133.1 GUIDELINES.
- 11. ALL TREES MUST MEET MINIMUM 2" CALIPER SIZE, AND SHRUB LINE PLANT HEIGHT (18"MIN.). 12. ALL DISTURBED AREAS MUST BE STABILIZED BY MEANS OF MULCH, SEEDING, OR SOD AS CALLED OUT ON THIS PLAN. IF DISTURBED AREA IS OUTSIDE OF THE LIMITS OF THIS PLAN, AREAS MUST BE STABILIZED WITH EXISTING MATERIAL OR BETTER. I.E. SEEDED OR SODDED.
- 13. LANDSCAPE MATERIAL IS TO BE MAINTAINED BY THE LANDSCAPE CONTRACTOR (INCLUDING MOWING, PRUNING, AND WEEDING). THE LANDSCAPE CONTRACTOR MUST PROVIDE: (A.) A WARRANTY ON ALL TREES AND PALMS FOR A PERIOD OF (1) ONE YEAR. (B.) A WARRANTY ON ALL SHRUBS AND GROUND COVERS FOR A PERIOD OF (1) ONE YEAR. (C.) GUIDELINES FOR PROPER MAINTENANCE.
- 14. ALL LANDSCAPE AREAS SHALL BE PROVIDED WITH AN IRRIGATION SYSTEM THAT SUPPLIES HOSE BIBS LOCATED WITHIN 75' OF ANY LANDSCAPED AREAS. IF AUTOMATIC SYSTEM IS INSTALLED (OPTIONAL), SYSTEM SHALL BE WATER EFFICIENT AND SHALL ACHIEVE 100% COVERAGE. NOTE THAT SUCH A SYSTEM SHALL ALSO SEPARATELY IRRIGATE TURF VS. SHRUBS. A RAIN SENSOR SHALL BE INSTALLED WITH SUCH A SYSTEM.
- 15. MINIMUM OF 10 FEET SEPARATION SHALL BE MAINTAINED BETWEEN TREES AND OVERHEAD UTILITIES AND MINIMUM OF 5 FEET SEPARATION TO
- 16. WHEN ANY ROOT OF EXISTING TREES ARE ENCOUNTERED DURING CONSTRUCTION, THE ROOTS MUST BE CUT OFF EVENLY WITH SHARP CLEAN PRUNING
- 17. ANY PROPOSED TREE LOCATED BETWEEN THE BUILDING AND RIGHT OF WAY SHALL BE A MINIMUM OF FOUR INCHED IN CALIPER AT THE TIME OF
- 18. SHRUBS/HEDGES SHALL BE A MINIMUM OF 30 INCHES IN HEIGHT WITHIN ONE YEAR OF PLANTING AND A MINIMUM OF OF 30 INCHES ON CENTER. 19. GUYING, PROPPING AND STAKING SHALL BE PROVIDED PER 14-2-94(E)(4)(b).
- 20. UPLAND BUFFER WILL REMAIN NATURAL AND UNDISTURBED AND WILL BE FULLY RESTORED IF IMPACTED. 21. NO TREE OR SHRUB SHALL BE PLANTED IN SUCH A MANNER THAT AT THE TIME OF PLANTING THE BASE OF THE TREE IS WITHIN THREE FEET OF ANY PUBLIC SIDEWALK OR BIKEWAY FOR SMALL TREES OR FIVE FEET FOR LARGE TREES. 22. LANDSCAPING MUST BE INCORPORATED AT A MINIMUM DEPTH OF 36 INCHES AROUND THE BASE OF ALL GROUND SIGNS TO INCLUDE LOW GROWING SHRUBS AND GROUND COVER AND/OR FLOWERING ANNUAL TO PROMOTE COLOR.

### LANDSCAPE CALCULATION:

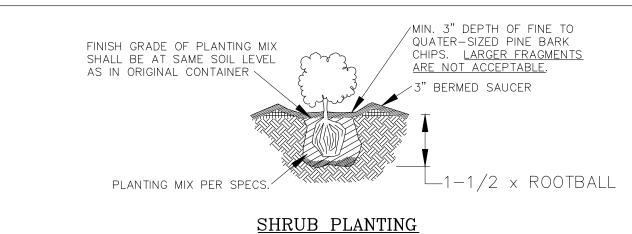
INTERIOR TREE REQUIREMENT: 1 TREE FOR EVERY 1,500SF, FOR FIRST 10500SF (7 TREES), THEN 1 TREE FOR EVERY 4,000SF FOR THE REMAINING, TREES SHALL BE 50% CANOPY AND 50% UNDERSTORY TREES.

PROJECT INTERIOR AREA = 342,102SF REQUIRED TOTAL: 90 TREES, 50% (45 TREES SHALL BE CANBOPY) REQUIRED CANOPY TREES = 45 TREES, PROVIDED = 56 CANOPY TREES

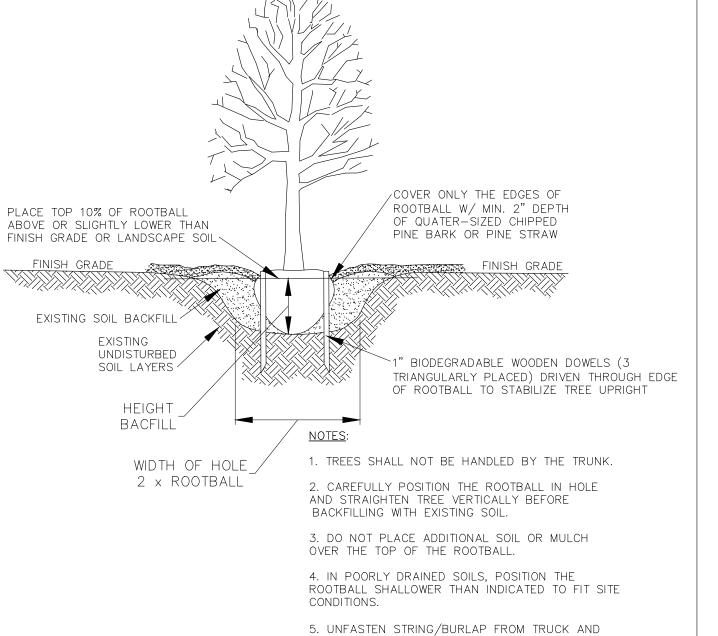
PROJECT TOTAL SAVED TREES: 55 TREES, 1,419.75 CREDIT INCHES (SEE TABLE BELOW) PROJECT TOTAL PROPOSED NEW TREES: 78 TREES, 400 INCHES DBH (SEE PLANTED TABLE BELOW)

PROJECT TOTAL PROVIDED TREES: 133 TREES, 1,819.75 INCHES DBH (EXCEED REQUIRED 90 TREES) TOTAL OF REMOVED TREE REPLACEMENT INCHES REQUIRED: 1,497 INCHES (SEE TABLE BELOW)

TOTAL PROPOSED PLANTED TREES INCHES: 400 INCHES (SEE PLANTED TABLE BELOW)
TOTAL REMAINING REMOVED TREE INCHES FOR MITIGATION: 1,097 INCHES TO BE PAID TO CITY TREE MITIGATION FUND.



N.T.S.



TOP OF ROOTBALL.

TREE PLANTING

N.T.S.

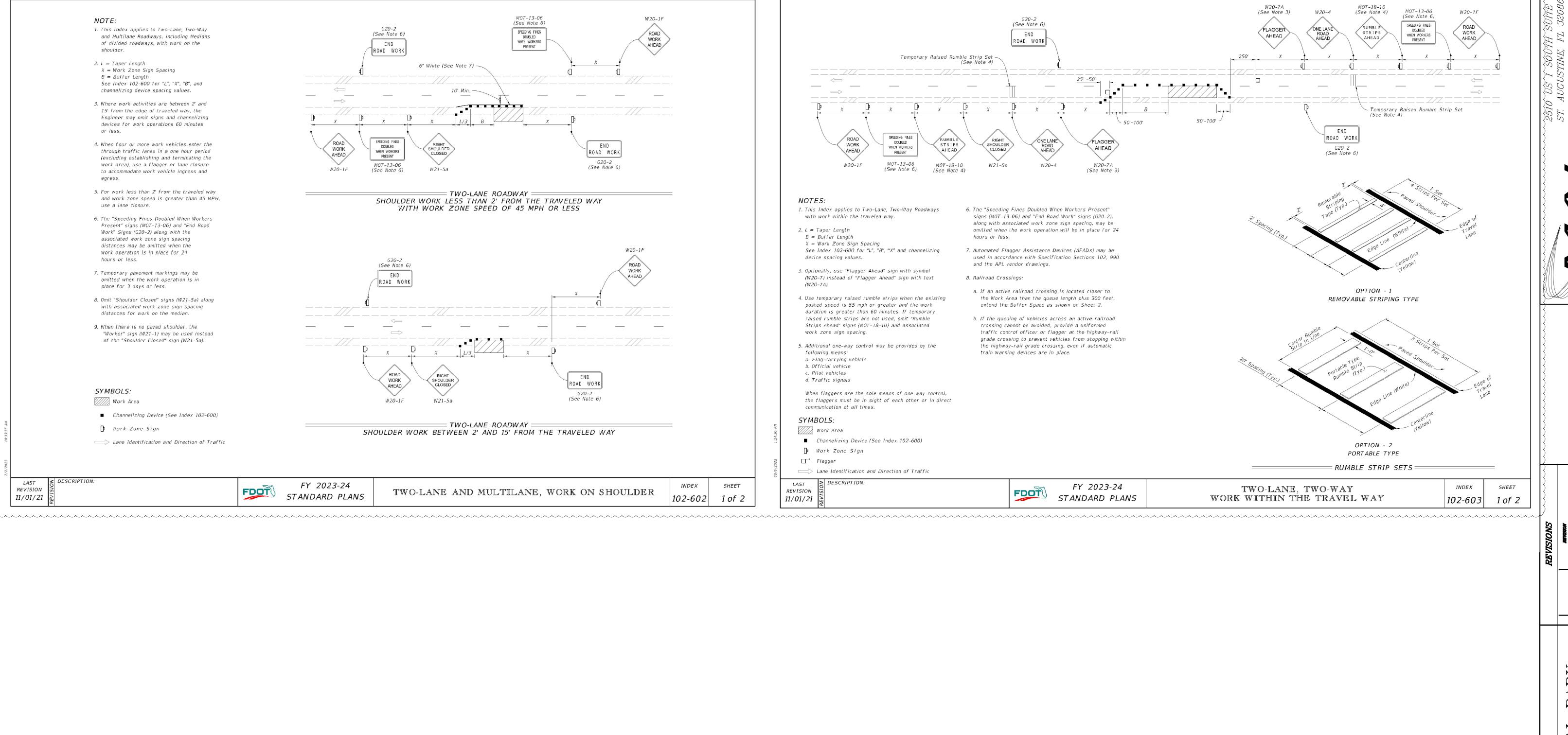
VDUS SPRIN OUTD

CHK BY:

DATE: 8/10/2023

TREE PROTECTION FENCING DETAIL (for public and private trees)

4. FENCING SIGNAGE AS DETAILED ABOVE MUST BE POSTED EVERY FIFTEEN (15) FEET ALONG THE FENCE.



RIVER OAKS INDUSTRIAL PARK
GREEN COVE SPRINGS, FLORIDA
RIVER OAKS OUTDOOR, LLC

DSGN BY: QHM

DWG BY: GMG

CHK BY: QHM

DATE: 8/10/2023

B No.: 1369

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HEET No.: 1

### **GENERAL NOTES**

THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE CLEARING AND EROSION CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS.

### SEQUENCE OF MAJOR ACTIVITIES

- THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:
- INSTALL STABILIZED CONSTRUCTION ENTRANCE INSTALL SILT FENCES, SYNTHETIC BALES AND OTHER EROSION/SEDIMENTATION CONTROLS AS REQUIRED.
- . CONSTRUCT SEDIMENTATION BASIN IF REQUIRED
- . CONTINUE CLEARING AND GRUBBING. STOCK PILE TOP SOIL IF REQUIRED
- PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED.
- STABILIZE DENUDED AREAS AND STOCKPILES AS SOON AS PRACTICABLE
- COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD AND PLANTING.
- . REMOVE ACCUMULATED SEDIMENT FROM BASIN. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/SOD AS REQUIRED.

### <u>TIMING OF CONTROLS / MEASURES</u>

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES AND SYNTHETIC BALES, STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF FANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND THE EARTH DIKE/SWALES MILL BE REGRADED/REMOVED AND STABILIZED IN ACCORDANCE WITH THE CLEARING AND EROSION CONTROL PLAN.

### **CONTROLS**

STABILIZED CONSTRUCTION ENTRANCE:

- CONTRACTOR SHALL INSTALL AND MAINTAIN FOR THE DURATION OF THE CONSTRUCTION A STONE STABILIZED PAD LOCATED AT POINTS OF VEHICULAR INGRESS AND EGRESS TO THE CONSTRUCTION SITE. AGGREGATE SHALL BE FDOT SIZE NO. 1 COARSE AGGREGATE.
- EROSION AND SEDIMENT CONTROLS STABILIZATION PRACTICES: SYNTHETIC BALE BARRIER: SYNTHETIC BALE BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:
- A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.
  B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.
- GREATER THAN 2 ACKES.

  C. WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS.

  D. EVERY EFFORT SHOULD BE MADE TO LIMIT THE USE OF SYNTHETIC BALE BARRIERS
  CONSTRUCTED IN LIVE STREAMS OR IN SWALES WHERE THERE IS THE POSSIBILITY OF A
  WASHOUT. IF NECESSARY, MEASURES SHALL BE TAKEN TO PROPERLY ANCHOR BALES TO
  INCIDE A CAINST WASHOUT.
- INSURE AGAINST WASHOUT.

  E. REFER TO THE DETAILS FOR CONSTRUCTING THE SYNTHETIC BALE BARRIER. ALSO, REFER TO THE DETAILS FOR PROPER LOCATION, MATERIAL AND USAGE. FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:
- . WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT. . IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO H. REFER TO THE DETAILS FOR PROPER CONSTRUCTION OF THE FILTER FABRIC BARRIER. BRUSH BARRIER WITH FILTER FABRIC: BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE
- STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY.
- EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 10 ACRES THIS REQUIREMENT MAY BE WAIVED FOR LARGE PROJECTS WITH AN EROSION CONTROL PLAN WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREAS WILL NOT SIGNIFICANTLY AFFECT OFF-SITE

- MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSIO AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.

### CONTROLS (CONTINUED)

- A BLOCK AND GRAVEL SEDIMENT FILTER THIS PROTECTION IS APPLICABLE WHERE HEAVY FLOWS AND/OR WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE. REFER TO THE DETAILS FOR CONSTRUCTION OF A CURB INLET SEDIMENT FILTER. AND FOR CONSTRUCTION OF A DROP INLET SEDIMENT FILTER. B. GRAVEL SEDIMENT TRAP THIS PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED SEDIMENT TRAP.

  C. DROP INLET SEDIMENT TRAP THIS PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (S < 5%) AND WHERE SHEET OR OVERLAND FLOWS (Q < 0.5 CFS) ARE TYPICAL. THIS METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS SUCH AS IN STREET OR HIGHWAY MEDIANS. REFER TO THE DETAILS FOR CONSTRUCTION OF SYNTHETIC BALE AND FABRIC SEDIMENT FILTER.
- OUTLET PROTECTION: APPLICABLE TO THE OUTLETS OF ALL PIPES AND PAVED CHANNEL SECTIONS WHERE THE FLOW COULD CAUSE EROSION AND SEDIMENT PROBLEM TO THE RECEIVING WATER BODY. SILT FENCES AND SYNTHETIC BALES ARE TO BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE DISCHARGING STRUCTURE AS SHOWN ON THE OUTLET PROTECTION DETAIL.

### OTHER CONTROLS

WASTE DISPOSAL:

- AS IL MA IEMIALS:

  ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REQULATIONS. THE DUMPSTER WILL BE EMPITED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT. THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.
- OFFSITE VEHICLE TRACKING:

### MAINTENANCE / INSPECTION PROCEDURES

EROSION AND SEDIMENT CONTROL INSPECTIONS AND MAINTENANCE PRACTICES: THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.  $\bullet\,$  No more than 10 acres of the site will be denuded at one time without written permission from the engineer.

 ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT, THE PERSON RESPONSIBLE
FOR THE DAY-TO-DAY SITE OPERATION OR SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST
ONCE A WEEK AND FOLLOWING ANY STORM EVENT OF 0.25 INCHES OR GREATER. ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT. - BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE—THIRD THE HEIGHT OF THE FENCE. SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND. THE SEDIMENT BASINS WILL BE INSPECTED FOR THE DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB, WHICHEVER COMES FIRST.

DIVERSION DIKES/SWALES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.  $\bullet$  TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.

THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR ANY FEDERAL, STATE OR LOCAL AGENCY APPROVING SEDIMENT AND EROSION PLANS, OR STORM WATER MANAGEMENT PLANS. THE REPORTS SHALL BE MADE AND FETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED AND THE NOTICE OF TERMINATION IS SUBMITTED THE REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE.

PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.

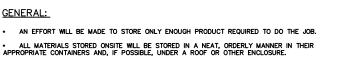
IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:

- PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED).
- ALL NON-STORM WATER DISCHARGES WILL BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE. ALL SUCH DISCHARGES SHALL MEET STATE WATER QUALITY STANDARDS AND ALL NECESSARY PERMITS SHALL BE OBTAINED.

### STORM WATER POLLUTION PREVENTION PLAN

SPILL PREVENTION MATERIAL MANAGEMENT PRACTICES:

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.



PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.

- SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER. WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER. MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED. THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS ONSITE RECEIVE PROPER USE AND DISPOSAL.

THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.

 ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.  $\bullet~$  IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

### PRODUCT SPECIFIC PRACTICES:

THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:

ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANC TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED

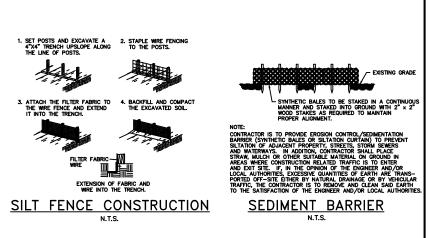
FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERDED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

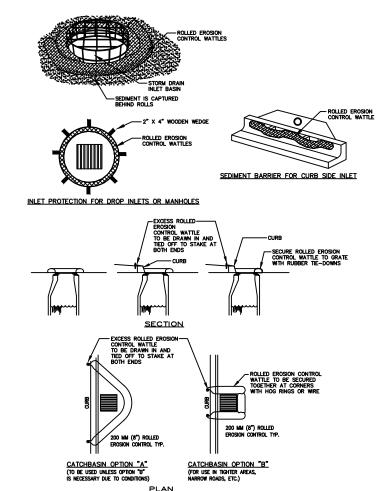
ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

CONCRETE TRUCKS SHALL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONLY AT DISCHARGE POINT PROVIDED. NO OFFSITE DISCHARGE WILL BE PERMITTED. SPILL CONTROL PRACTICES:

IN ADDITION TO GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP: MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS INCLUDE BUT ARE NOT LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LOUID ABSORBENT (LE. KITTY LITTER OR EQUAL), SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.

ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE. SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE OF THE SPILL. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPIL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED. THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.





STRUCTURE AND JOIN THE FINS TOGETHER WITH MANUFACTURER'S SPECIFICATIONS.

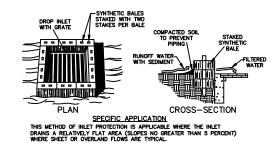
SECURE ROLLED PROSION CONTROL PRODUCT TO GROUND AT EACH END.

ROLLS SHOULD BE INSPECTED AFTER EVERY SIGNIFICANT STORM EVENT TO CLEAR AND DISPOSE OF SEDIMENT AND DEBRIS.

ROLLS SHOULD BE INSPECTED AFTER EVERY SIGNIFICANT STORM EVENT TO CLEAR AND DISPOSE OF SEDIMENT AND DEBRIS.

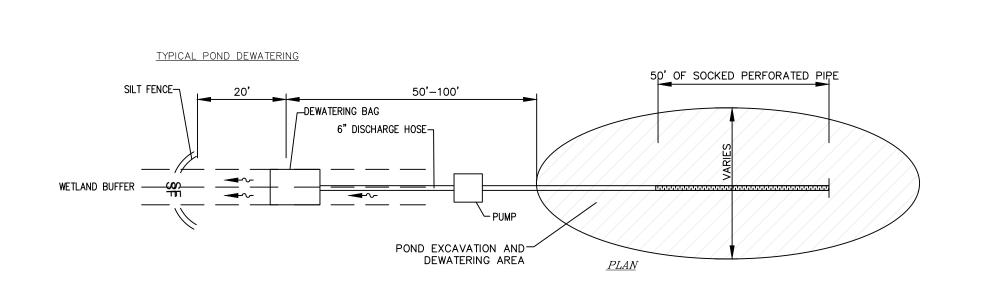
USE 12" DIAMETER, 20" LONG WATTLE ROLLS FOR STANDARD CIRCULAR DRAINAGE STRUCTURES. PLACE THE ROLL AROUND THE

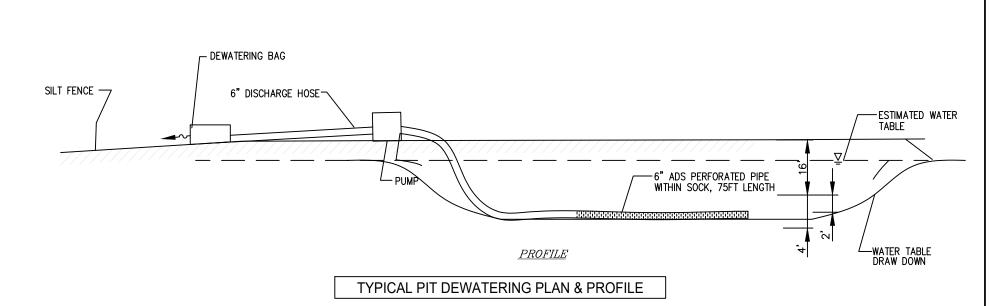
STRUCTURE AND JOIN THE ENDS TOGETHER WITH HOR RINKS OR WIRE. USE 2"x2"x2" WOODEN WEDGES TO HOLD DOWN WATTLE ROLLS. ROLLED EROSION AND SEDIMENTATION CONTROL PRODUCTS

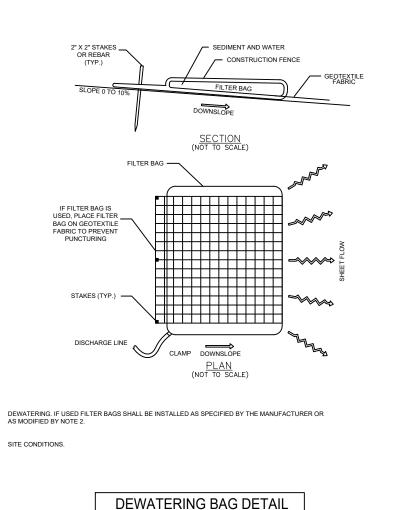


SYNTHETIC BALE DROP INLET SEDIMENT FILTER







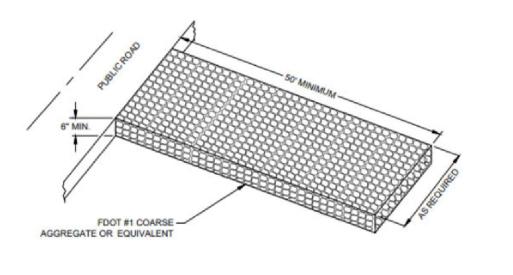


### **DEWATERING SUMMARY**

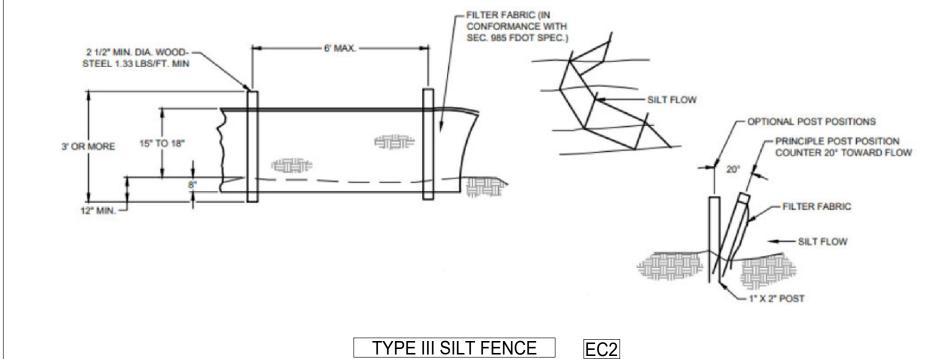
EST. GROUNDWATER DEPTH	FROM EXISTING SURFACE TO APPROXIMATELY 36" DEEP.
REQUIRED DEWATERING DEPTH	APPROXIMATELY 15 FEET BELOW EXISTING GROUND
DEWATERING AREA	2'x75'x15'
DURATION OF PUMPING	1-3 DAYS FOR EACH EXCAVATION
PUMPS	THOMPSON PUMP MODEL 6TSV-DJDS-45T-M, 6" VACUUM ASSISTED DRY PRIME PUMP(OR EQUIVALENT)
DISCHARGE LOCATIONS	ALL PUMPS DISCHARGE TO GRASS SWALE ALONG THE ROAD
EST. GROUNDWATER EXTRACTION	43.7 GPM TOTAL FOR 75FT OF 6"PERORATED PIPE
EROSION CONTROL	PROPOSED SILT FENCE, AND DEWATERING FILTER BAG

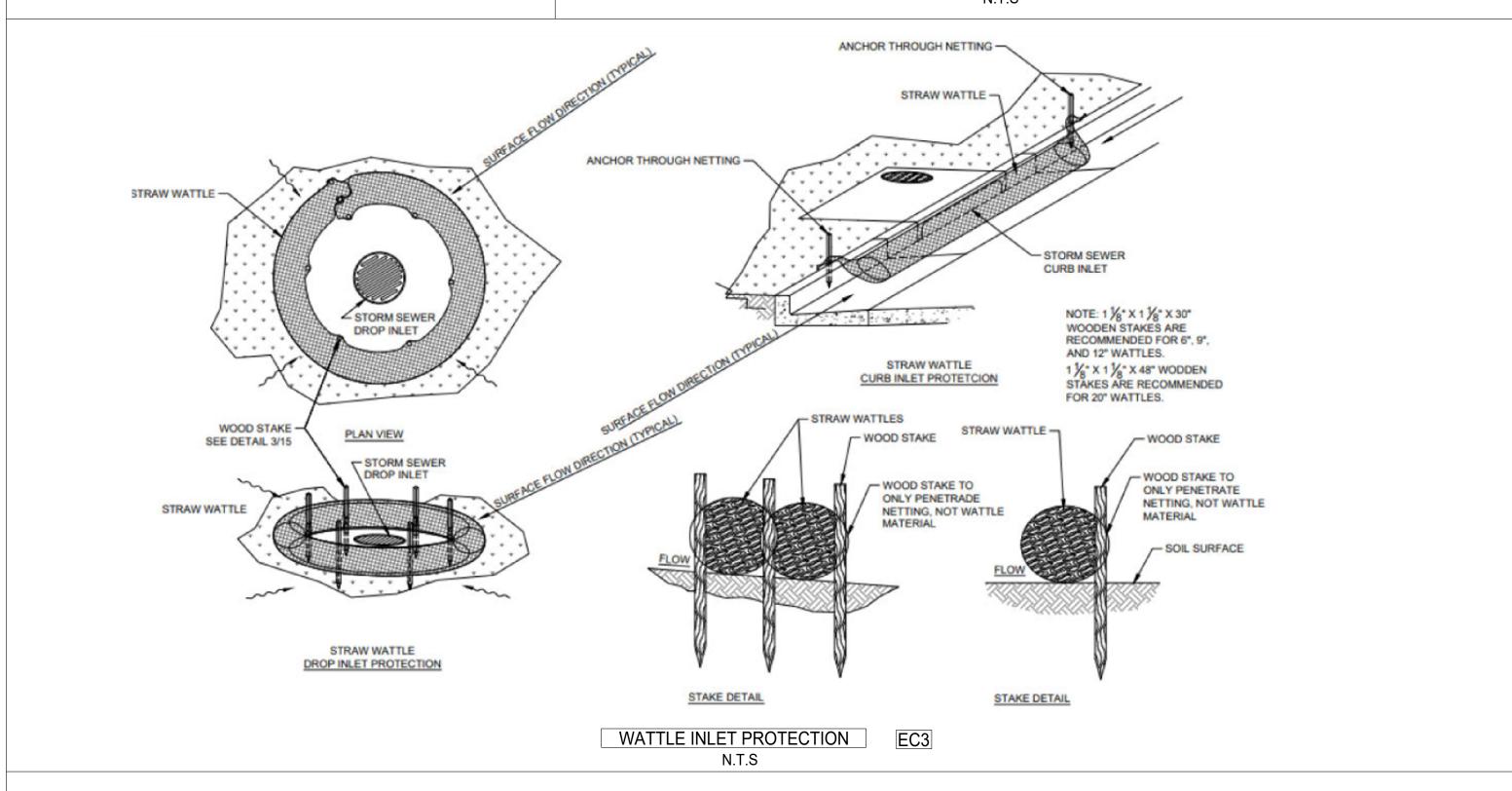
### **GENERAL NOTES:**

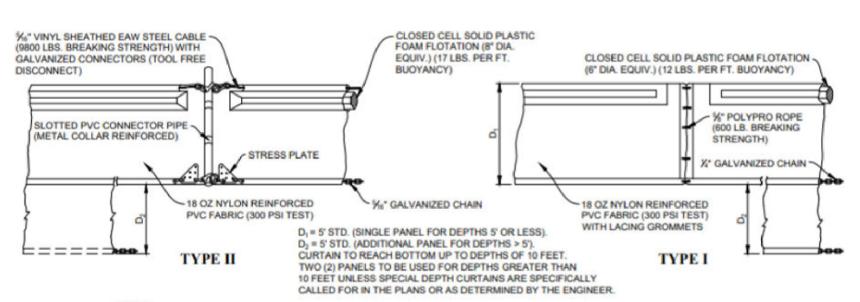
- 1. IF REQUIRED, CONTRACTOR SHALL APPLY DEWATERING PLAN WHEN WATER TABLE IS ENCOUNTERED AT TIME OF CONSTRUCTION.
- 2. IF DEWATERING IS REQUIRED THIS DEWATERING PLAN REPRESENTS THE MAX. PUMP CAPACITY THE CONTRACTOR MAY USE.
- 3. THE DISCHARGE PIPE LENGTH IS APPROXIMATELY 100FT FROM PUMP TO THE FILTER BAG. THE DIRECTIONS FOR THE DISCHARGE PIPE IS
- 4. ADDITIONAL SILTFENCE SHALL BE INSTALLED PRIOR TO ENTERING
- 5. LOCATION OF THE DEWATERING PERFORATED PIPE SHALL IN INSTALLED EITHER DIRECTLY AT THE BOTTOM OF THE EXCAVATION PIT.

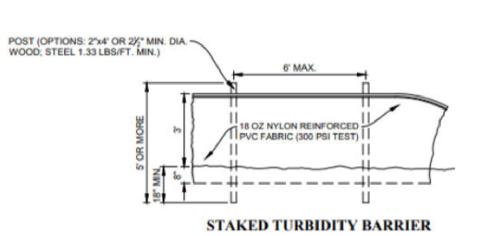


STABILIZED CONSTRUCTION ENTRANCE EC1



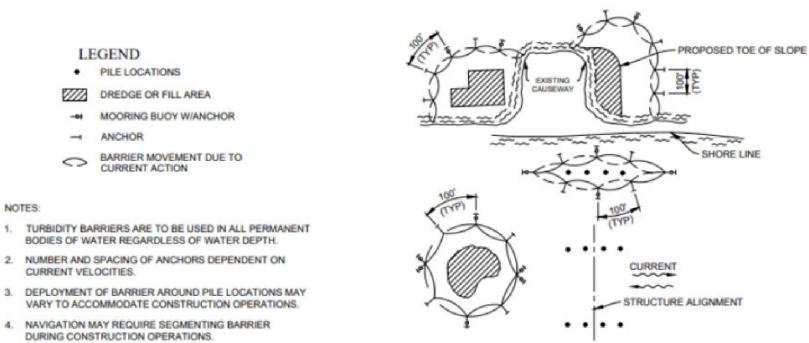






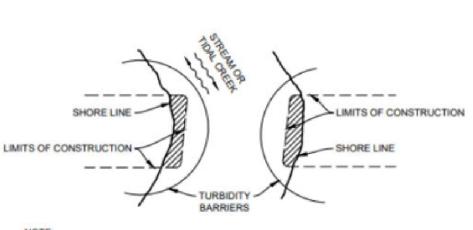
COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS

### FLOATING TURBIDITY BARRIERS



5. FOR ADDITIONAL INFORMATION SEE SECTION 104 OF THE

STANDARD SPECIFICATIONS.



TURBIDITY BARRIERS FOR FLOWING STREAMS AND TIDAL CREEKS MAY BE EITHER FLOATING, OR STAKED TYPES OR ANY COMBINATIONS OF TYPES THAT WILL SUIT SITE CONDITIONS AND MEET EROSION CONTROL AND WATER QUALITY REQUIREMENTS. THE BARRIER TYPE(S) WILL BE AT THE CONTRACTORS OPTION UNLESS OTHERWISE SPECIFIED IN THE PLANS. HOWEVER PAYMENT WILL BE UNDER THE PAY ITEM(S). ESTABLISHED IN THE PLANS FOR FLOATING TURBIDITY BARRIER AND/OR STAKED URBIDITY BARRIER. POSTS IN STAKED TURBIDITY BARRIERS TO BE INSTALLED IN VERTICAL POSITION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

### GENERAL NOTES

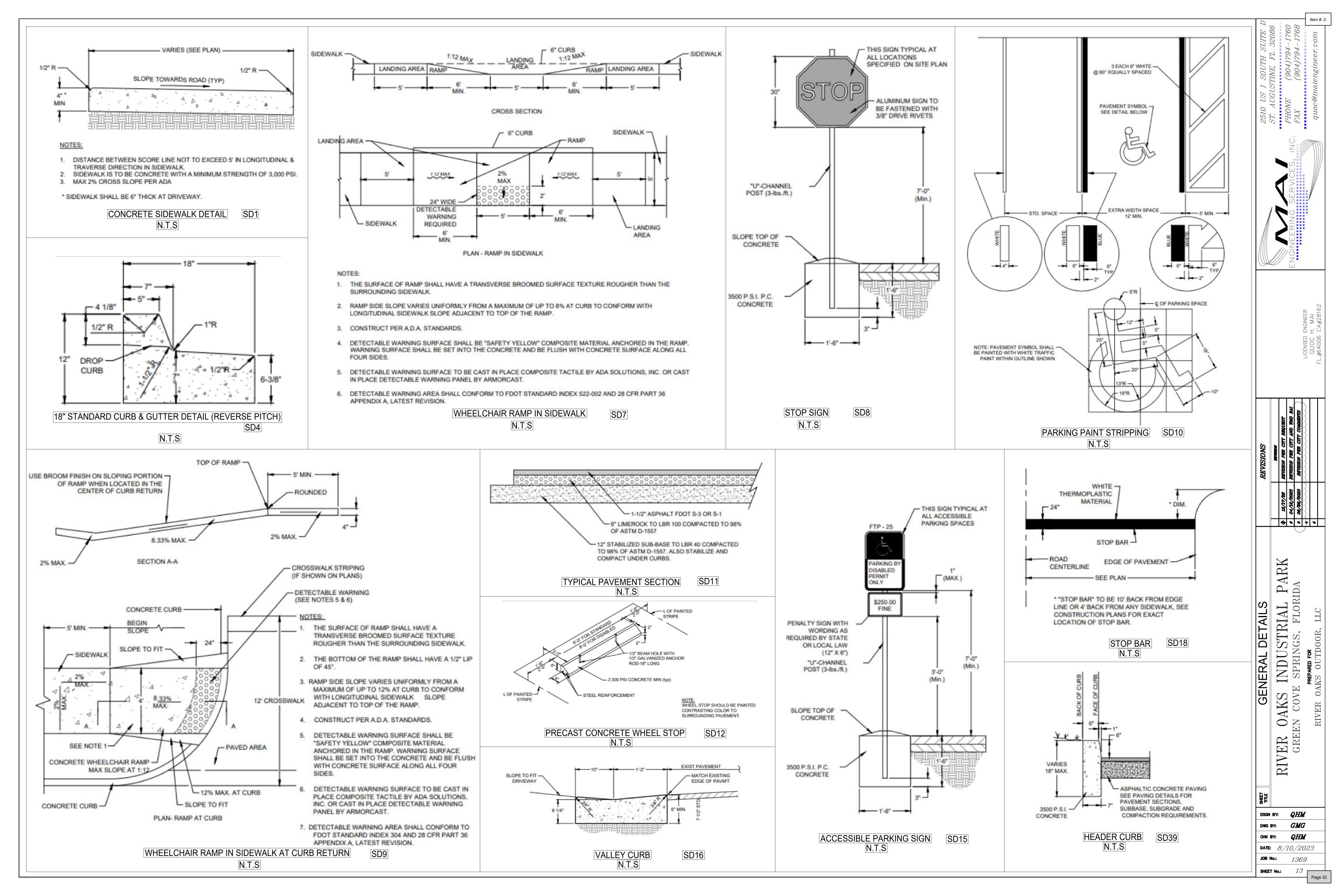
- 1. FLOATING TURBIDITY BARRIERS ARE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR FLOATING TURBIDITY BARRIER, LF.
- 2. STAKED TURBIDITY BARRIERS ARE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED TURBIDITY BARRIER, LF.

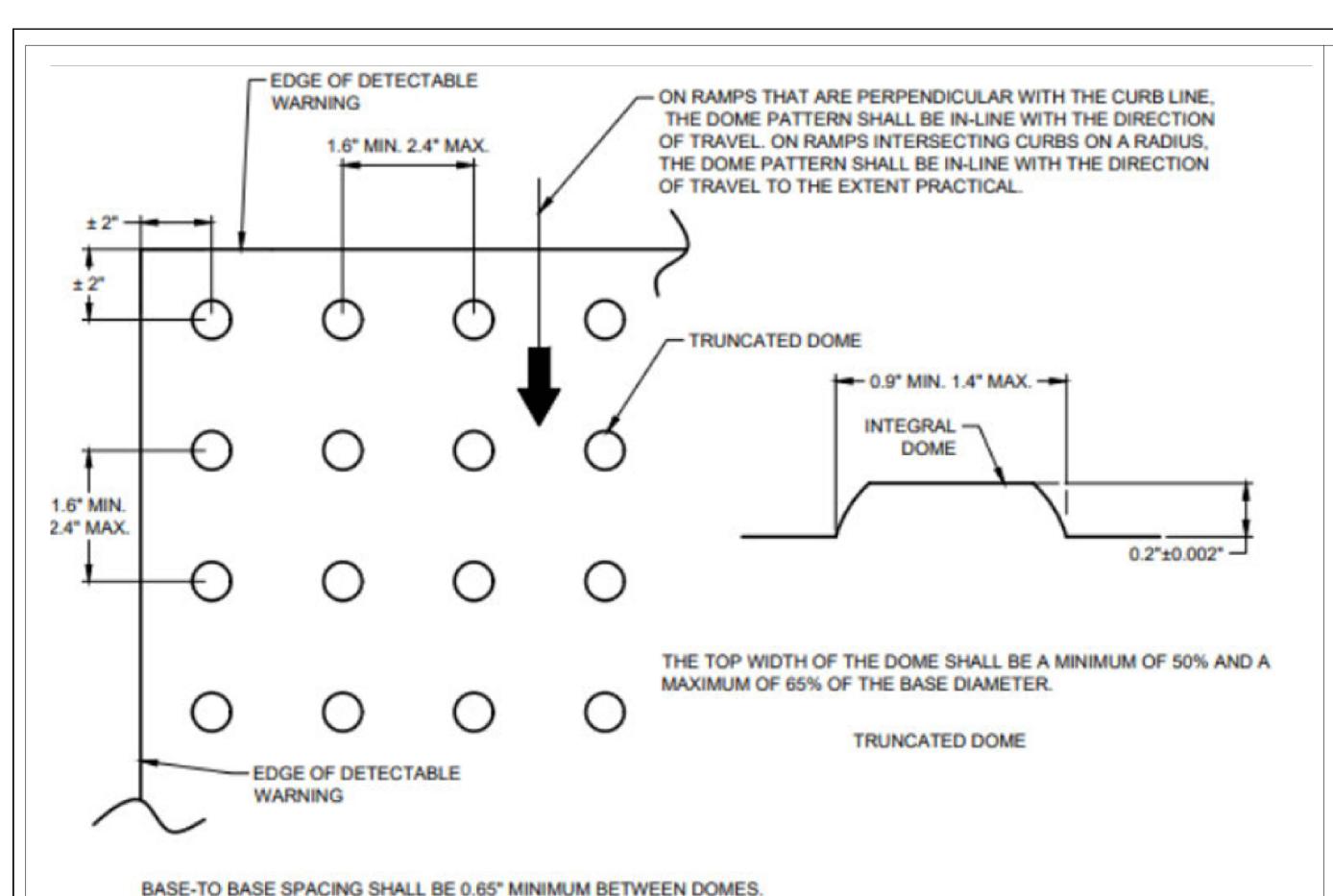
TURBIDITY BARRIER APPLICATIONS

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DATE: 8/10/2023



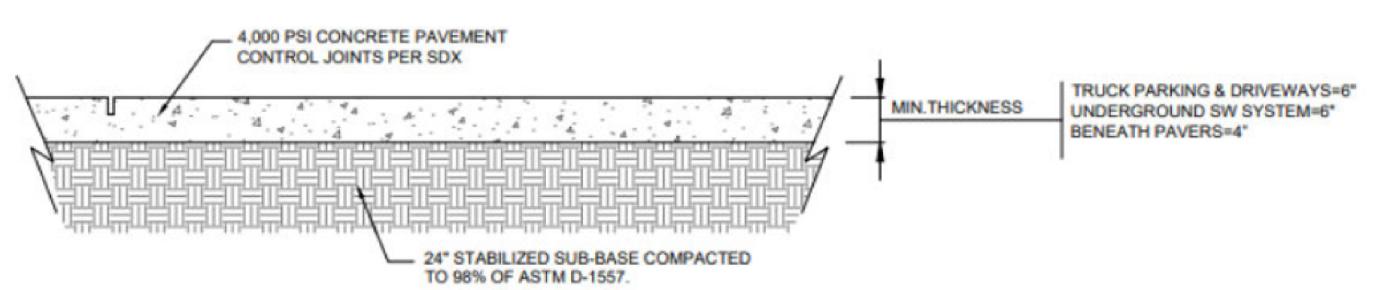


### PLAN VIEW

### NOTES:

- 1. ALL SIDEWALK CURB RAMPS SHALL HAVE DETECTABLE WARNING SURFACES THAT EXTEND THE FULL WIDTH OF THE RAMP. AND IN THE DIRECTION OF TRAVEL 24 INCHES FROM THE BACK OF CURB.
- SEE FOOT STANDARD INDEX 522-002, LATEST EDITION FOR MORE DETAILS.
- DETECTABLE WARNING SURFACE SHALL BE "SAFETY YELLOW" COMPOSITE MATERIAL ANCHORED IN THE RAMP. WARNING SURFACE SHALL BE SET INTO THE CONCRETE AND BE FLUSH WITH CONCRETE SURFACE ALONG ALL FOUR SIDES.
- DETECTABLE WARNING SURFACE TO BE CAST IN PLACE COMPOSITE TACTILE BY ADA SOLUTIONS, INC. OR CAST IN PLACE DETECTABLE WARNING PANEL BY ARMORCAST.

DETECTABLE WARNING DETAIL	SD26
NTS	



#### RECOMMENDED MAX. JOINT SPACINGS

PAVEMENT THICKNESS (INCHES)	RECOMMENDED MAXIMUM JOINT SPACING (FEET)
3.5 (FOR WHITETOPPING ONLY)	6
4.0	10
4.5	10
5.0	12
5.5	12
6.0	15
OVER 6.0	15

### CURBS:

- ALL CURBING SHALL BE CONSTRUCTED OF CONCRETE THAT WILL OBTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28
- ALL CONCRETE CURBS SHALL BE SPACED WITH A FULL-DEPTH, ₹ WIDTH ISOLATION JOINT MATERIAL (UNLESS OTHERWISE NOTED) PRIOR TO PLACEMENT OF ADJACENT CONCRETE PAVEMENT.
- THERE SHALL BE CONTROL JOINTS, EITHER TOOL OR SAW-CUT. MATCH PAVEMENT JOINTS, UNLESS OTHERWISE SPECIFIED; JOINTS SHALL BE FORMED WITHIN 12 HOUR OF PLACEMENT.
- ALL CURB ENDS THAT DO NOT TIE INTO OTHER FACILITIES SHALL TRANSITION DOWN TO PAVEMENT GRADE IN 24 INCHES.
- CONSTRUCTION JOINT SHALL BE TIED WITH A No.4 TIE BAR EXTENDED 6 INCHES INTO EACH CURB SECTION AND SHALL BE SPACED WITH A FULL-DEPTH & WIDTH ISOLATION JOINT MATERIAL

### GENERAL NOTES

- USE ACI 330 GUIDE FOR DESIGN AND CONSTRUCTION OF CONCRETE PARKING LOTS.
- USE ACI 330.1 STANDARD SPECIFICATION FOR PLAIN CONCRETE PARKING
- ALL CONCRETE USED IN PARKING LOT, UNLESS OTHERWISE INDICATED, SHALL HAVE A COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
- PREPARE THE SUBGRADE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEEER'S RECOMMENDATIONS FOR RIGID PAVEMENTS. SUBGRADE SOIL DENSITY TESTING MUST BE COMPLETED AND VERIFIED BY THE GEOTECHNICAL ENGINEER PRIOR TO CONCRETE PLACEMENT.
- IMPORTED SOIL USE FOR BACK FILL SHOULD BE FREE OF HEAVY CLAY. SILTS, STONES, PLANT ROOT OR OTHER FOREIGN MATERIAL GREATER THAN 12 IN DIAMETER IN ORDER TO ACHIEVE ADEQUATE COMPACTION AROUND ANY FIXED OBJECT IN GROUND. ALTERNATE WILL BE TO USE FLOWABLE FILL
- CURE CONCRETE IMMEDIATELY AFTER FINISHING OPERATION IS COMPLETED BY USING ONE OF THE FOLLOWING METHODS: WATER. PIGMENTED WATER-BASED CURING COMPOUND OR VISQUEEN AND BURLAP.

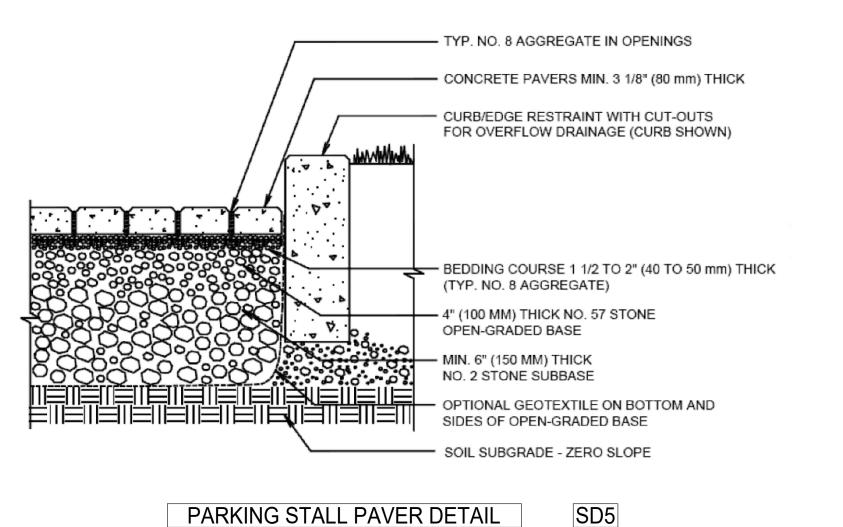
### COMPACTED SUBGRADE:

SUBGRADE FOR PAVEMENT AREAS SHALL BE COMPACTED TO A MINIMUM OF 98% OF MAXIMUM DRY DENSITY USING STANDARD EFFORT AS DETERMINED BY ASTM D 698 FOR A MINIMUM DEPTH OF 12 INCHES.

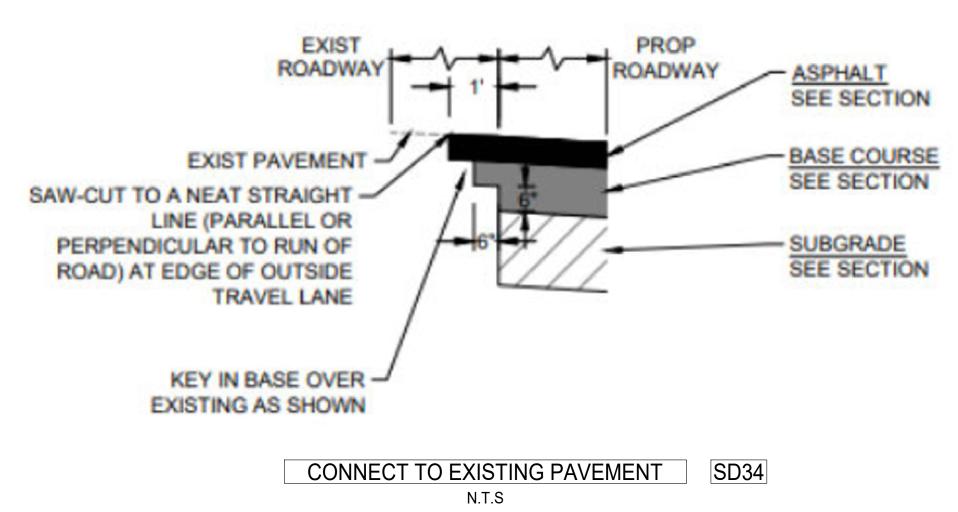
### JOINT SPACING DETERMINATION:

- LAYOUT CONTROL JOINT BY STARTING WITH ANY DRAINAGE INLET WITHIN THE PAVEMENT SECTION AND WORK TOWARD EDGE OF PAVEMENT.
- KEEP ALL JOINTS CONTINUOUS.
- 3. CONTROL JOINTS SHALL BE FORMED OR SAWED WITHIN 12 HOURS FROM TIME OF PLACEMENT:
  - A. SIDEWALK-SPACING SHALL BE SAME AS WIDTH OF PAVEMENT AND LESS THAN 5 FEET IN LENGTH.
  - PAVEMENT-MAXIMUM SPACING SHALL BE 2.5 TIMES THICKNESS IN UNIT OF FEET AND LESS THAN 15 FEET IN LENGTH (E.G. D=5 INCHES, SPACING AT 12'x12').

CONCRETE PAVEMENT SECTION SD36 N.T.S



N.T.S

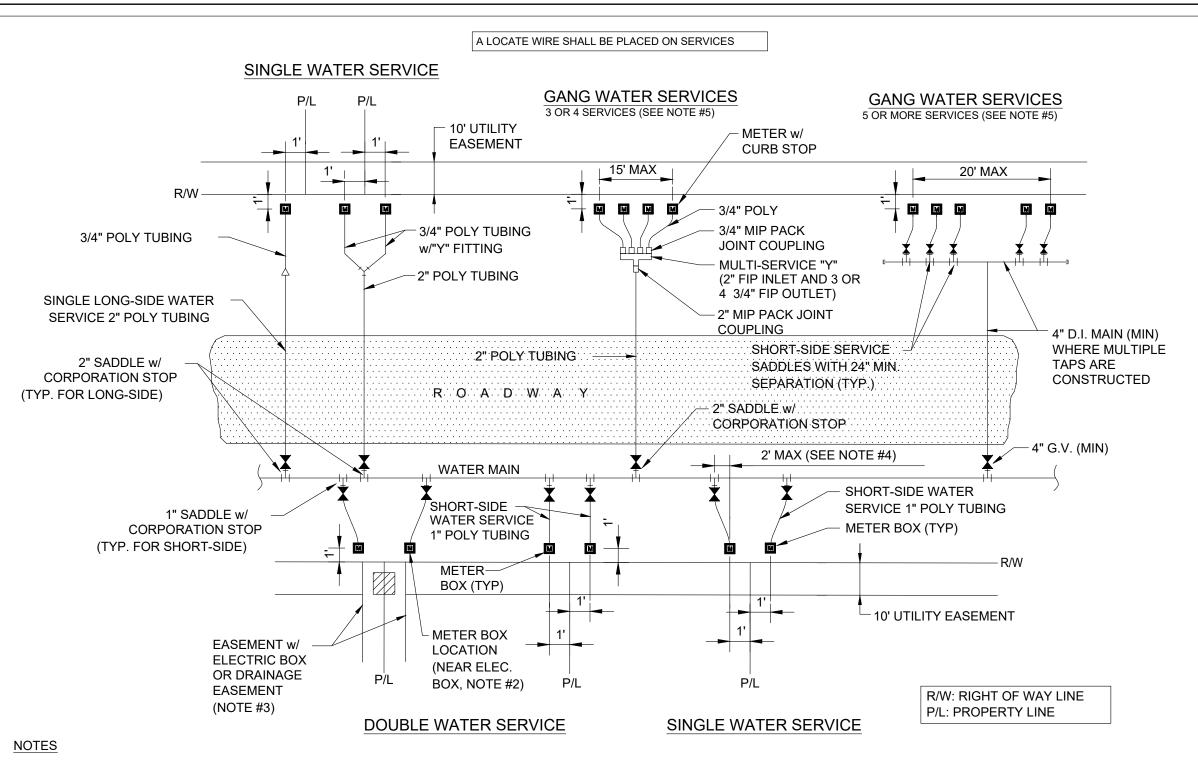


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Item # 2.



1. THE SKETCHES ABOVE INDICATE TYPICAL WATER SERVICE AND METER BOX LOCATIONS. ACTUAL LOCATIONS OF BOXES MAY VARY SLIGHTLY ACCORDING TO FIELD CONDITIONS ENCOUNTERED. TYPICALLY, THE METER BOX SHALL BE LOCATED 1.0' OFF OF THE R/W LINE.

2. UNLESS SPECIFIED OTHERWISE BY THE CITY OF GREEN COVE SPRINGS, THE METER BOX SHALL BE LOCATED 1.0' OFF OF THE R/W LINE, AND 1.0' FOOT INSIDE OF THE PROLONGATION OF ONE OF THE SIDE PROPERTY LINES. IF A CONFLICT EXISTS WITH OTHER UTILITIES, THE METER BOX MAY BE ADJUSTED TO FOUR FEET (MAX.) INSIDE PROPERTY LINES (IN LIEU OF 1.0' FEET). UNLESS APPROVED OTHERWISE BY THE CITY, THE WATER METER BOX SHALL BE LOCATED IN NON-TRAFFIC AREAS (NOT IN SIDEWALKS OR DRIVEWAYS). IF AN UNAPPROVED METER BOX IS IDENTIFIED BY THE CITY, THEN THE CONTRACTOR OR CUSTOMER SHALL BE RESPONSIBLE FOR THE COST OF RELOCATING ANY METER BOX WHICH IS LOCATED IN THE SIDEWALK OR DRIVEWAY OR THE COST TO PROVIDE THE CORRECT METER BOX. THE CITY SHALL APPROVE ALL DEVIATIONS TO THE ABOVE PRIOR TO CONSTRUCTION.

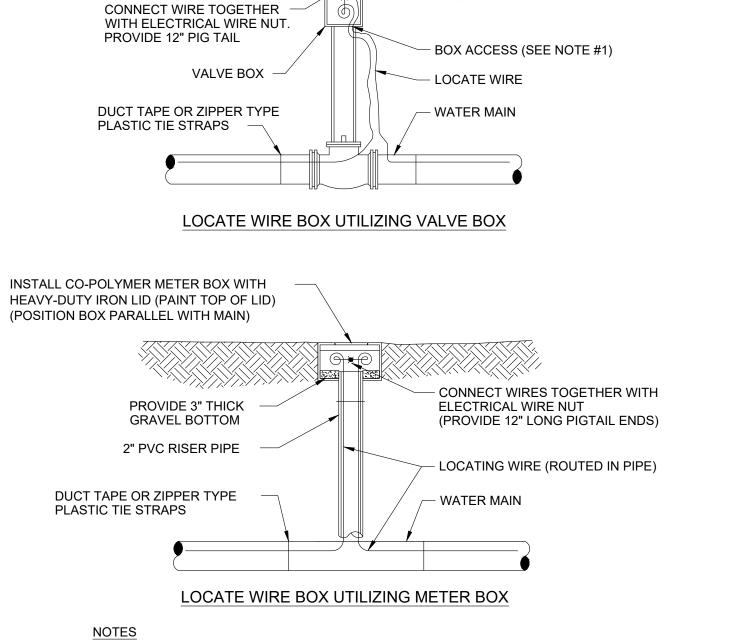
3. IF DRAINAGE OR OTHER EASEMENT IS LOCATED BETWEEN LOTS, METER BOXES SHALL BE LOCATED AT THE EASEMENT LINE BUT OUTSIDE THE EASEMENT AREA.

4. FOR SINGLE SERVICES, THE HORIZONTAL DISTANCE (PERPENDICULAR TO THE MAIN) BETWEEN THE SERVICE'S SADDLE AND THE METER BOX SHALL BE 2 FEET MAXIMUM. FOR DOUBLE 3/4 "SERVICES, THE 2" POLY MAIN SHALL BE LOCATED CENTERED BETWEEN THE TWO METER BOXES. LOCATE WIRE IS REQUIRED ON ALL SERVICES. THE WIRE SHALL RUN FROM THE METER BOX TO THE MAIN (WITH NO CONNECTION TO MAIN WIRE WITH THE LAST 24 INCHES STRIPPED OF INSULATION/BARE WIRE AS GROUND). ALL EXCEPTIONS TO THIS REQUIREMENT MUST BE APPROVED BY THE CITY OF GREEN COVE SPRINGS. THIS WILL ASSIST IN LOCATING EXISTING SERVICE LINES IN THE FUTURE.

5. GANG WATER SERVICES: FOR 3 OR 4 SERVICES IN ONE AREA, A DUCTICLE IRON PIPE (D.I.P.) WATER MAIN EXTENSION W/LOCATE WIRE MAY BE UTILIZED ON EITHER SHORT-SIDE OR LONG-SIDE SERVICES WHERE SHOWN ON THE DRAWINGS. LOCATE WIRE SHALL EXTEND FROM ONE METER BOX TO CURB STOP AT WATER MAIN. FOR 5 OR MORE SERVICES IN ONE AREA, A WATER MAIN EXTENSION W/LOCATE WIRE MAY BE UTILIZED ON EITHER SHORT-SIDE OR LONG-SIDE SERVICES WHERE SHOWN ON THE DRAWINGS (TAPS STAGGERED AND AT 2 FEET ON CENTER (MIN). FOR WATER SUPPLY HEADERS WHERE 5 OR MORE TAPS ARE CONSTRUCTED, THE HEADER PIPE SHALL BE 4" AT A MINIMUM. EXAMPLE: CONSTRUCT A 4" MAIN D.I. CROSSING THE STREET FOR 5 RESIDENTIAL CUSTOMERS, UTILIZING 4" G.V., 4" PIPE, 4"X1" SADDLES AND 1" CURB STOPS (NO GLUED TEE FITTINGS). THE 4" OR LARGER D.I.P. WATER MAIN MUST BE SIZED AND DESIGNED BY THE ENGINEER.

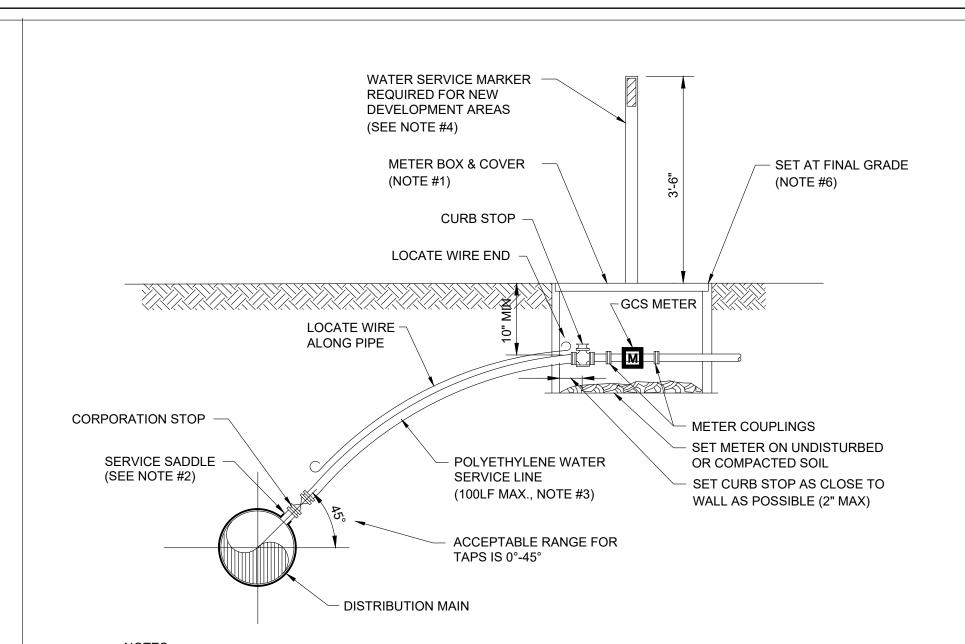
6. ALL COMMERCIAL WATER SERVICES SHALL BE 2" POLYETHYLENE PIPING CONNECTED TO 2" CURB STOP IN METER BOX, UNLESS OTHERWISE APPROVED BY THE CITY.

### WATER SERVICE INSTALLATIONS 2" AND SMALLER METER



1. LOCATE WIRE SHALL ENTER THE VALVE BOX THROUGH A "V" CUT IN THE 6" PVC RISER PIPE.

### LOCATE WIRE BOX



1. SEE CITY OF GREEN COVE SPRINGS APPROVED MATERIALS MANUAL AND SYSTEM DETAILS FOR REQUIREMENTS.

2. SINGLE BAND SADDLES MAYBE UTILIZED ON NEW 1" WATER SERVICES WHICH ARE INSTALLED ON A DRY 10" SIZE OR SMALLER WATER MAIN (NEW WATER MAIN CONSTRUCTION). FOR WET TAPS OR WATER MAINS 12" SIZE AND LARGER, A DOUBLE BAND SADDLE IS REQUIRED.

3. NO OPEN CUT UNDER ROADWAY PAVING ALLOWED UNLESS THE ROADWAY IS BEING RECONSTRUCTED OR IF DIRECTED OTHERWISE BY CITY OF GREEN COVE SPRINGS. CONSTRUCT POLY LINE WITH 36" (MIN.) COVER UNDER ROADWAYS. THE POLY WATER SERVICE LINE SHALL BE SAME SIZE AS THE METER (3/4" MINIMUM) AND BE INSTALLED PERPENDICULAR TO THE MAIN AND NOT EXCEED 100LF UNLESS OTHERWISE APPROVED BY CITY OF GREEN COVE SPRINGS.

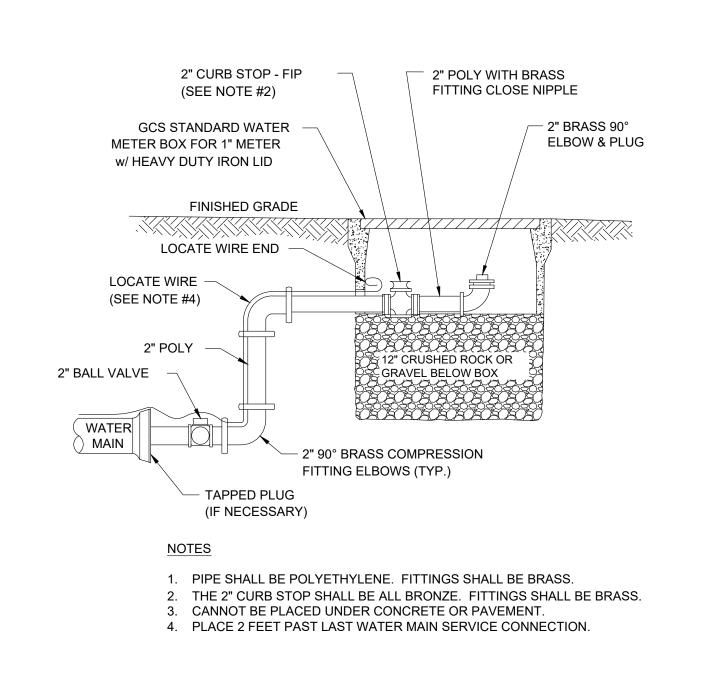
4. INSTALL PVC PLUG IN ALL CURB STOPS IF WATER SERVICE IS "NOT IN USE" (I.E.: IF NO METER IS INSTALLED). IN ADDITION, INSTALL A 6', 6" P.T. FENCE POST (TOP PAINTED BLUE) 12" OFF SIDE OF METER BOX. THE REMOVAL OR TRANSFER OF A WATER SERVICE SHALL INCLUDE BRASS METER COUPLINGS (HEX ON

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF THE BOXES, METERS OR ELECTRONIC DEVICES IF DAMAGED BY THE CONTRACTOR DURING THE CONSTRUCTION PERIOD.

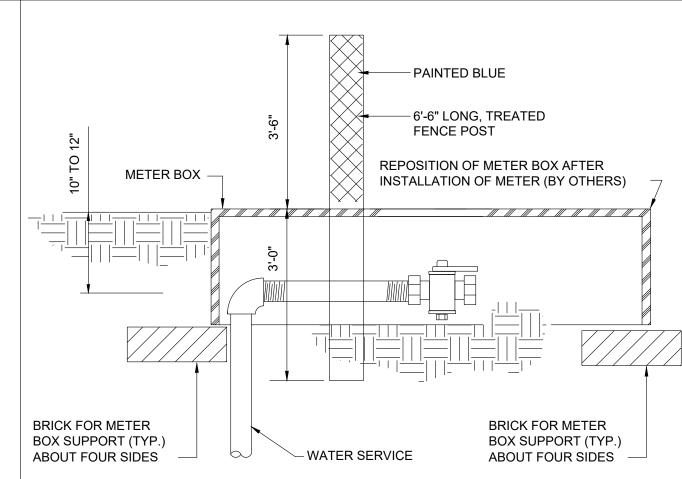
6. METER BOX AND TOP SHALL BE CLEAR OF ALL DEBRIS TO ALLOW FULL ACCESS TO BOX (I.E., NO DIRT, TRASH OR OTHER DEBRIS PLACED ON TOP OF BOX).

7. LOCATE WIRING REQUIRED ON ALL LONG AND SHORT SERVICES.

### WATER SERVICE DETAIL- 2" AND SMALLER METER



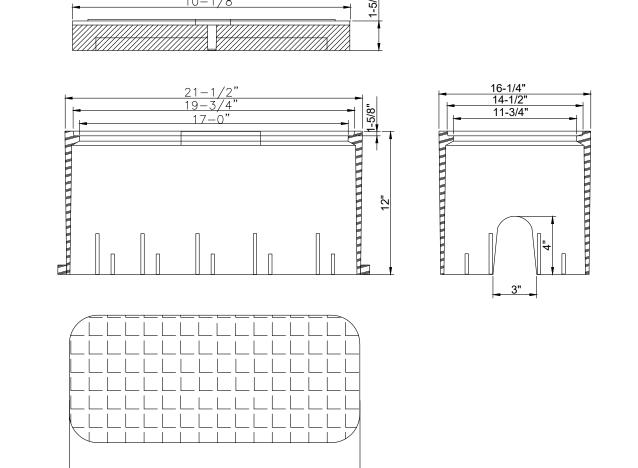
### FLUSHING VALVE BELOW GRADE



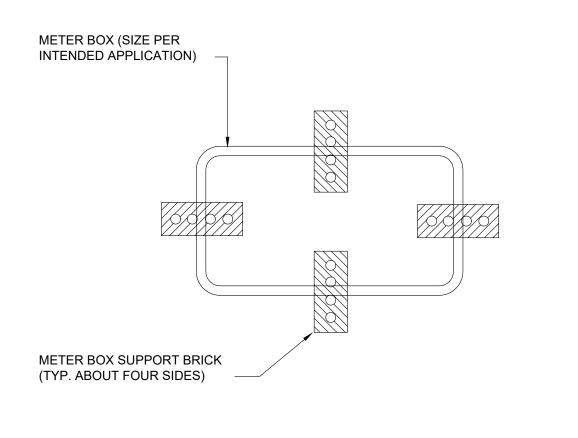
### WATER SERVICE MARKER POST

ALL SERVICES ARE TO BE CLEARLY MARKED BY A TREATED 6'-6" LONG MARKER POST PAINTED BLUE ALL SERVICES ARE TO BE EXTENDED ABOVE GRADE UNTIL COMPLETION OF ALL GRADING ACTIVITIES. ONCE FINAL ROAD GRADING IS COMPLETE, LOWER SERVICES BY CUTTING OFF RISER 10" TO 12" BELOW FINAL GRADE AND INSTALL 90° BEND, NIPPLE AND LW BALL VALVE AT THAT ELEVATION. SET METER BOX OVER ENTIRE HORIZONTAL SECTION OF SERVICE LINE FROM LAST 90° BEND TO THE END OF THE CURB STOP. BOX TO BE REPOSITIONED WHEN THE METER IS INSTALLED. MARKER POST TO BE INSTALLED ADJACENT TO AND LOCATED AT THE MID SECTION OF THE METER BOX.

MIN. WALL THIKNESS: .25" DOUBLE WALL BODY w/STRUCTURAL SUPPORT RIBS w/MIN. THINCKNESS: 3/6" 1" BOTTOM FLANGE BOX IS INJECTED MOLDED STRUCTURAL FOAM RECYCLED POLYPROPYLENE MATERIAL



### METER BOX & SOLID BLUE LID



METER BOX SUPPORT DETAIL

QHM DSGN BY: GMG QHM DATE: 8/10/2023

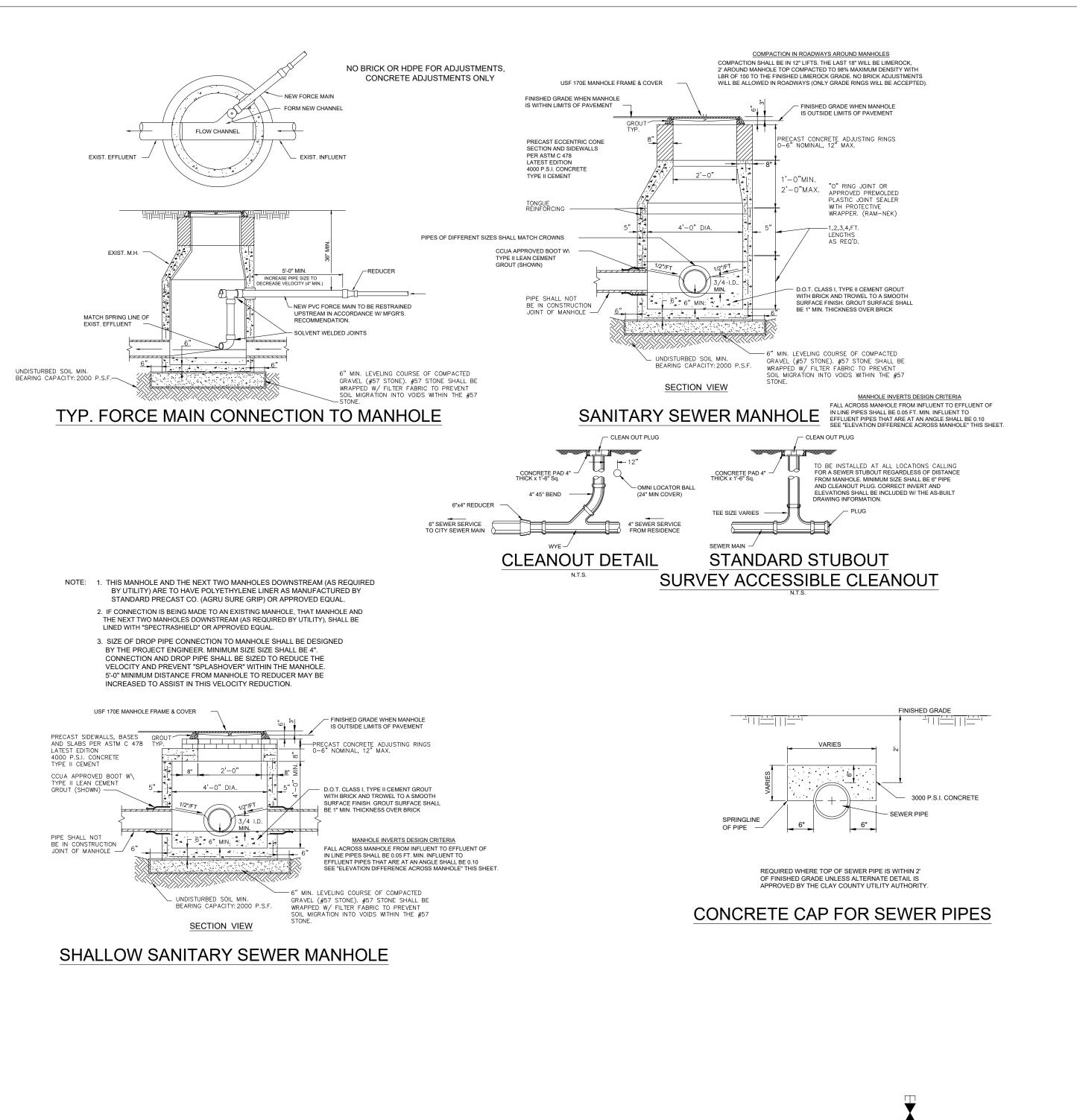
JOB No.: 1369

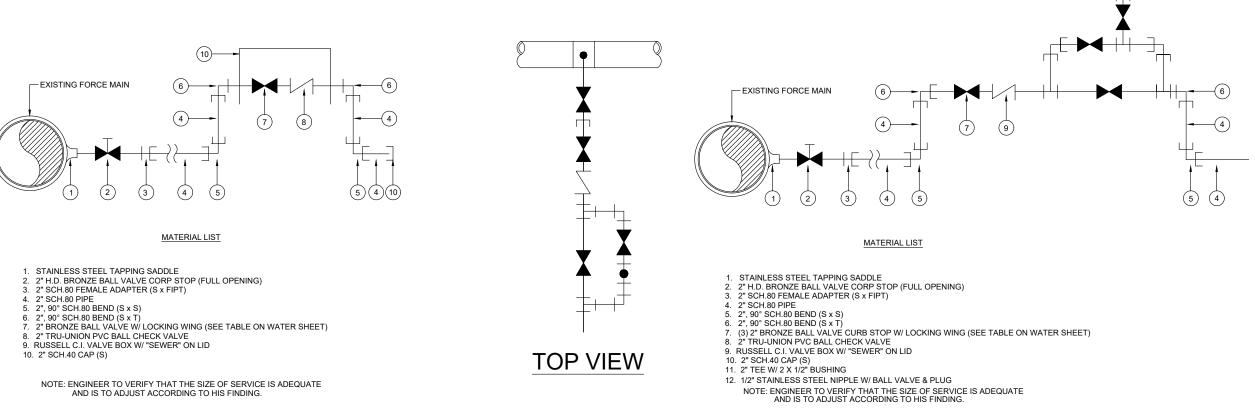
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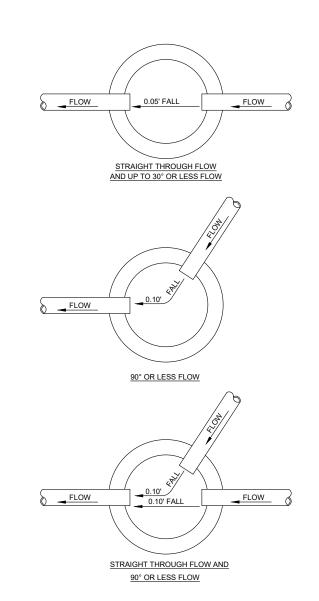
2" SEWAGE FORCE MAIN MANIFOLD

SERVICE CONNECTION DETAIL

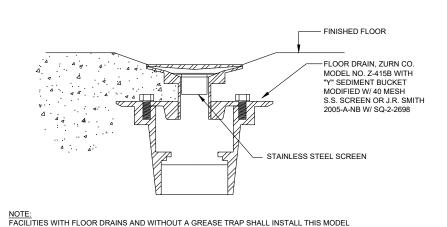
FOR MEDIUM TO HIGH PRESSURE

CONNECTION SYSTEMS

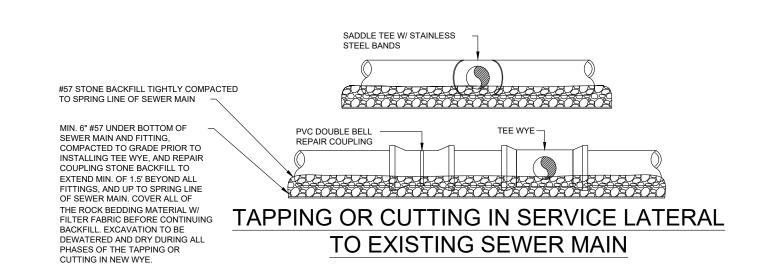
" SEWAGE FORCE MAIN MANIFOLD SERVICE CONNECTION / WITH PRESSURE GAUGE FITTING / FOR LOW PRESSURE RECEIVING SYSTEMS FOR CREATING ARTIFICIAL HEAD PRESSURE

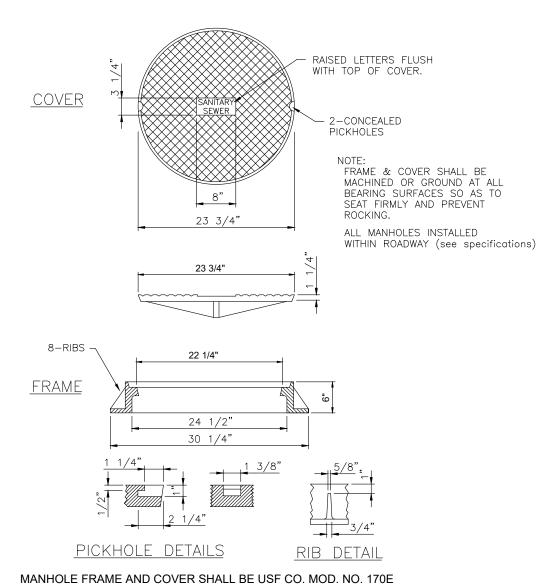


**ELEVATION DIFFERENCE ACROSS MANHOLE** 

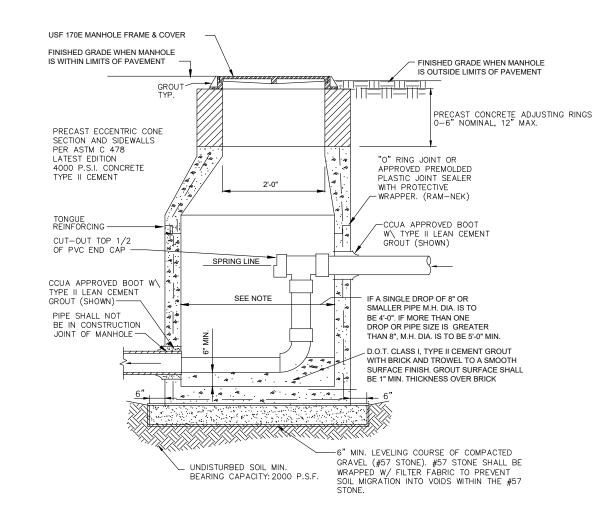


FLOOR DRAIN WITH STRAINER DETAIL



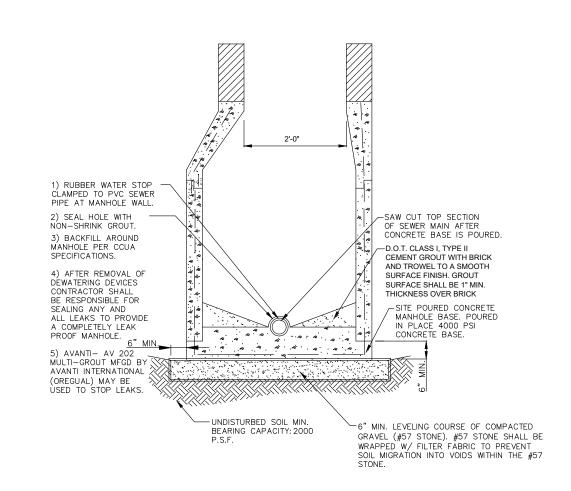


SANITARY SEWER MANHOLE FRAME & COVER | S-1



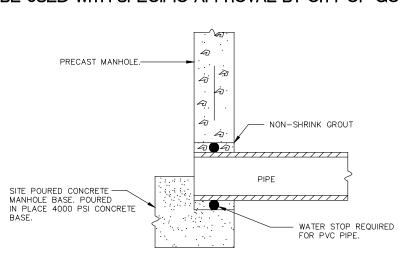
NOTE: FOR ADDITIONAL MANHOLE SPECIFICATIONS, SEE "SANITARY SEWER MANHOLE" DETAIL THIS SHEET.
MAXIMUM ALLOWABLE DIFFERENCE IN INVERT ELEVATION WITHOUT INTERNAL DROP CONNECTION IS 24". SEE "ELEVATION DIFFERENCE ACROSS MANHOLE" THIS SHEET.

TYPICAL GRAVITY SEWER DROP PIPE **CONNECTION TO MANHOLE** 



SADDLE MANHOLE DETAIL THIS DETAIL IS ONLY TO BE USED WITH SPECIFIC APPROVAL BY CITY OF GCS.

NOTE: 1) FOR ADDITIONAL MANHOLE SPECIFICATIONS, SEE "SANITARY SEWER MANHOLE" DETAIL THIS SHEET.



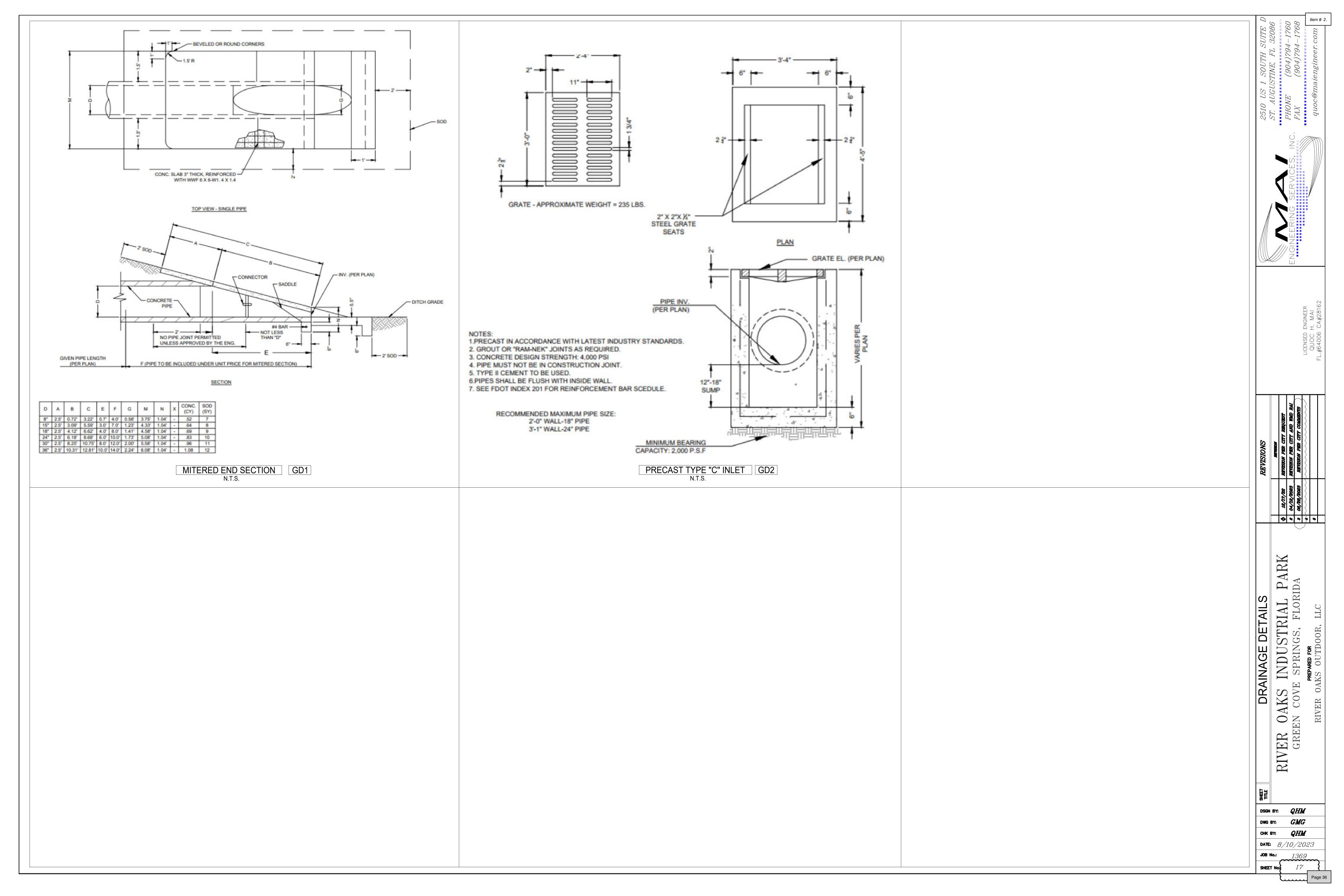
SADDLE MANHOLE DETAIL SECTION

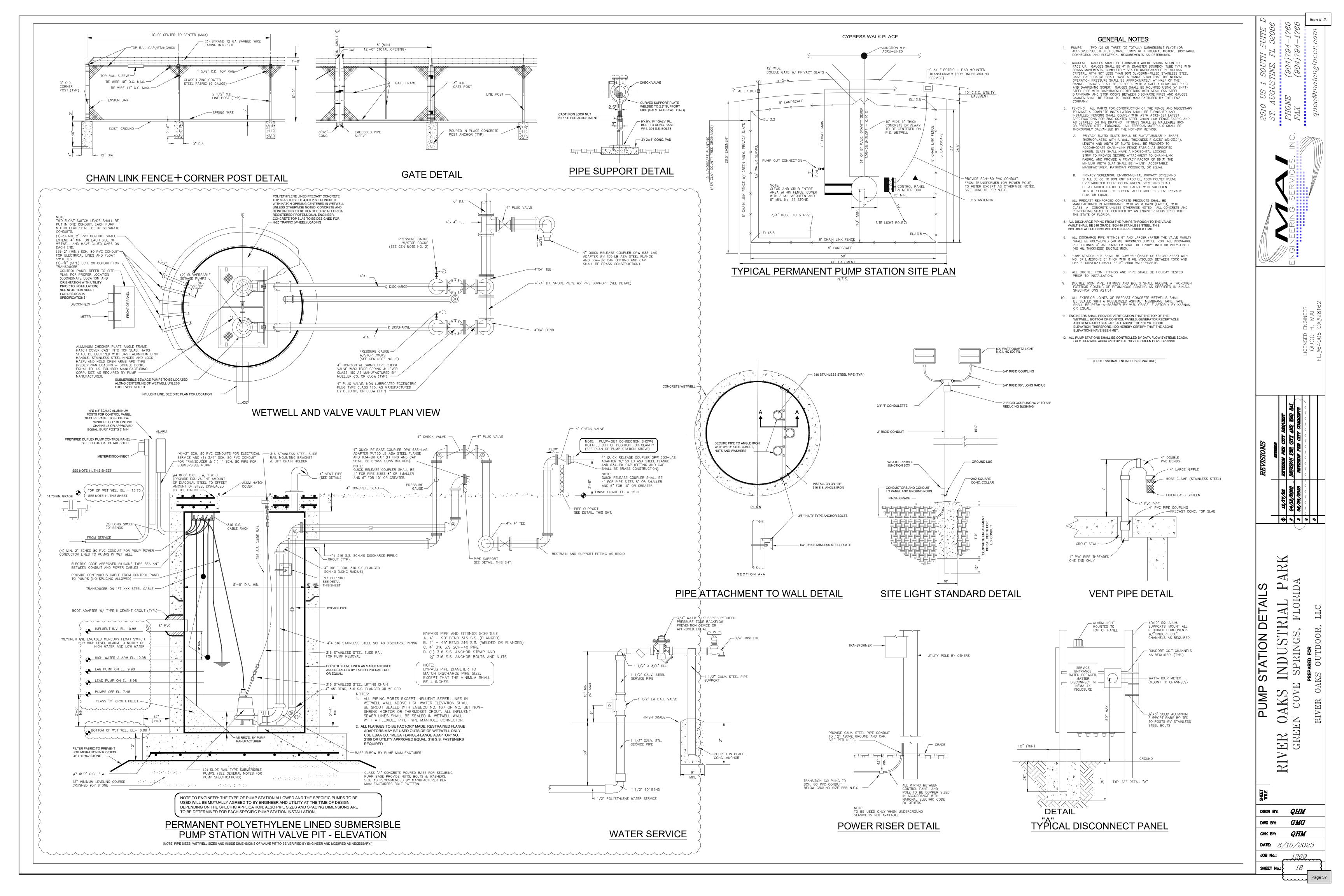
QHM DSGN BY: QHM DATE: 8/10/2023JOB No.:

Item # 2.

STRIAL PARS, FLORIDA

OZ





# RIVER OAKS OFFICE-WAREHOUSE TRAFFIC STUDY

CLAY COUNTY, FLORIDA

November 2023





#### BUCKHOLZ TRAFFIC 3585 KORI ROAD JACKSONVILLE, FLORIDA 32257 (904) 886-2171 jwbuckholz@aol.com

November 1, 2023

Ms. Quoc H. Mai, P.E. MAI Engineering Services, Inc. 2510 US 1 South / Suite D St. Augustine, Florida 32086

Re: New River Oaks Office-Warehouse Traffic Study

Dear Ms. Roth:

Attached is the new traffic study for the revised development. If there are any questions or comments regarding this study, please contact me.

Sincerely,

### PRELIMINARY – FOR INTERNAL REVIEW ONLY

Jeffrey W. Buckholz, P.E., PTOE Principal

Page T

#### INTRODUCTION

The revised River Oaks development will contain four buildings totaling 76,000 sf of commercial space. Building sizes will be 30,000 sf, 21,000 sf, 15,000 sf and 10,000 sf. These buildings will be located on the south side of Cove Lane approximately ¼ mile west of the US 17/SR 16/Cooks Lane intersection in Clay County, Florida. Two existing businesses will be relocated to the site. Van Up-Fitter will occupy the 30,000 sf building and River Oaks Outdoor will occupy the 15,000 sf building. The 21,000 sf building will be composed of warehouse space whereas the 10,000 sf building will contain 5000 sf of warehouse space and 5000 sf of office space.

Access to the development will be provided via one full access driveway on Cooks Lane. Cooks Lane is a two lane undivided major collector with a posted speed limit of 25 mph. US 17 and SR 16 are both urban principal arterials with an FDOT access management classification of 3. The posted speed limit on SR 16 and US 17 to the south of SR 16 is 45 mph while the posted speed limit on US 17 to the north of SR 16 is 45 mph northbound and 35 mph southbound.

Figure 1 shows the site location and surrounding road network while Appendix A contains the proposed site plan. The development is expected to be constructed and fully occupied by the end of 2026, therefore 2026 was chosen as the design year for this study.

#### **EXISTING TRAFFIC VOLUMES**

Weekday peak period manual turning movement counts were conducted by Buckholz Traffic personnel during December of 2022 with school in session at the US 17/SR 16/Cove Lane intersection. These counts, which are provided in Appendix B, were conducted during the weekday AM peak period (6:30 to 8:30 AM) and the weekday PM peak period (3:45 – 6:00 PM). The data was recorded at 15-minute intervals and includes a separate tabulation for trucks and pedestrians. Figure 2 graphically summarizes the AM and PM peak hour counts while Figure 3 summarizes the AM and PM peak period counts.

Appendix C provides daily traffic volumes for four nearby FDOT traffic counting stations. The current Average Daily Traffic (ADT) on Cooks lane is approximately 1600 vehicles per day. Also included in Appendix C are the FDOT seasonal adjustment factors for Clay County.

#### TRIP GENERATION

Trip generation calculations for the warehouse and office space were carried out using the 11th edition of ITE's <u>Trip Generation Manual</u> and referencing land use codes 150 (Warehousing) and 710 (Office). Tables 1 and 2 contain the associated daily, AM peak hour, and PM peak hour trip generation calculations. Trip generation calculations for the two relocated businesses are provided in Tables 3 and 4. The calculations are based on client-provided activity data. During an average weekday, the development is expected to generate 176 total trips (88 entering and 88 exiting) with 31 trips (23 entering and 8 exiting) occurring during the AM peak hour and 33 trips (8 entering and 25 exiting) occurring during the PM peak hour. All of these trips will be new trips.

Page 2

#### SITE TRIP DISTRIBUTION AND TRAFFIC ASSIGNMENT

Weekday AM and PM peak hour site trips were directionally distributed based on peak period turning movement counts and engineering judgment as shown in Figure 4.

#### **FUTURE TRAFFIC VOLUMES**

The expected weekday 2026 peak hour background (No Build) traffic volumes and total (Build) traffic volumes at intersections of interest are graphically depicted in Figures 5 and 6. The No Build traffic volumes were obtained by multiplying the existing traffic volumes by the appropriate FDOT seasonal adjustment factor (1.00) and then by a median annual growth rate of 1.8%. A linear regression analysis of recent FDOT daily traffic counts at nearby traffic counting stations was used to identify this rate (see graphs C-1, C-2, C-3 and C-4 in Appendix C). The 2026 Build traffic volumes were obtained by adding the traffic generated by the new development to the 2026 No Build traffic volumes.

#### TURN LANE EVALUATION

A formal analysis was made to determine if a right turn lane is warranted on eastbound Cooks Lane at the new Site Driveway. The methodology contained in NCHRP Report 279 was used to conduct this analysis. As is indicated in Figure 7, right turn volumes into the site will not be high enough to warrant an exclusive right turn lane. This result is supported by NCHRP Report 420 which requires 80 right turns per hour to warrant a right turn lane on a 2-lane roadway with a posted speed less than 45 mph.

A formal analysis was also made to determine if an exclusive left turn lane is warranted on westbound Cooks Lane at the Site Drive. The methodology contained in a paper written by M.D. Harmelink entitled: "Volume Warrants for Left Turn Storage Lanes at Unsignalized Grade Intersections" was used to conduct this evaluation. The results indicate that left turn volumes under 2026 Build conditions will not be high enough to warrant an exclusive left turn lane at this location. The supporting analysis is provided in Figures 8 and 9.

#### UNSIGNALIZED INTERSECTION CAPACITY ANALYSIS

The unsignalized Cooks Lane/Site Drive intersection was analyzed using the two-way stop control methodology contained in the 2023 version of the Highway Capacity Software. Table 3 summarizes the capacity analysis results under 2026 Build conditions with the supporting calculations provided in Appendix D. All minor movements at the Cooks Lane/Site Drive intersection are expected to operate at level of service A or better during both weekday peak hours with minimal queuing and a volume-to-capacity ratio of well less than one.

#### Item # 2.

#### RIVER OAKS OFFICE-WAREHOUSE TRAFFIC STUDY

Page 3

#### SIGNALIZED INTERSECTION CAPACITY ANALYSIS

The signalized US 17/SR 16/Cooks Lane intersection was analyzed using the operational methodology contained in the 2023 version of the Highway Capacity Software. The existing traffic signal timings are provided in Appendix E. Table 4 summarizes the capacity analysis results with the supporting calculations provided in Appendix F.

The US 17/SR 16/Cooks Lane intersection currently operates at level of service C during the weekday AM peak hour and level of service D during the PM peak hour and is expected to continue to operate at these levels of service under 2026 Build conditions. With a more balanced set of timings implemented to even-out individual movement levels of service the overall intersection level of service under 2026 Build conditions is expected to be D for both weekday peak hours.

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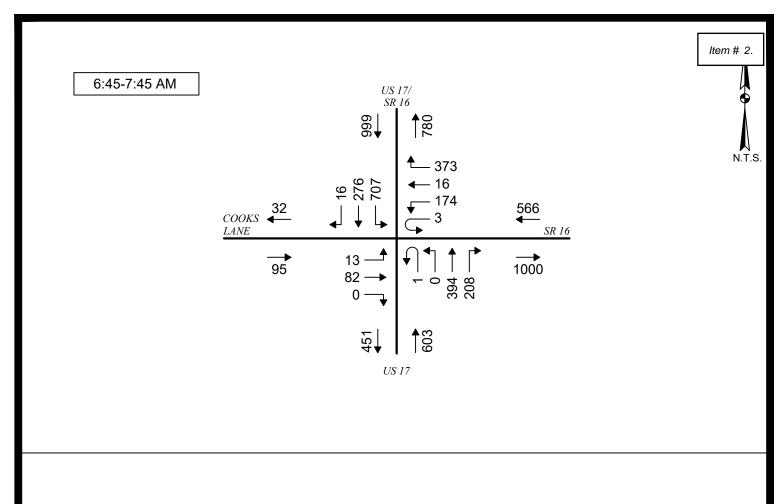
FYA = FLASHING YELLOW ARROW PO = PROTECTED ONLY LEFT TURN

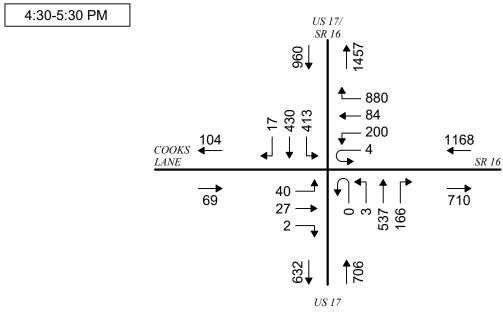
Buckholz Traffic

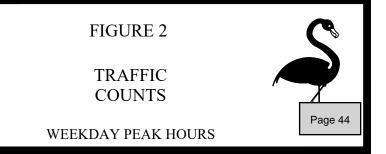
FIGURE 1

SITE LOCATION

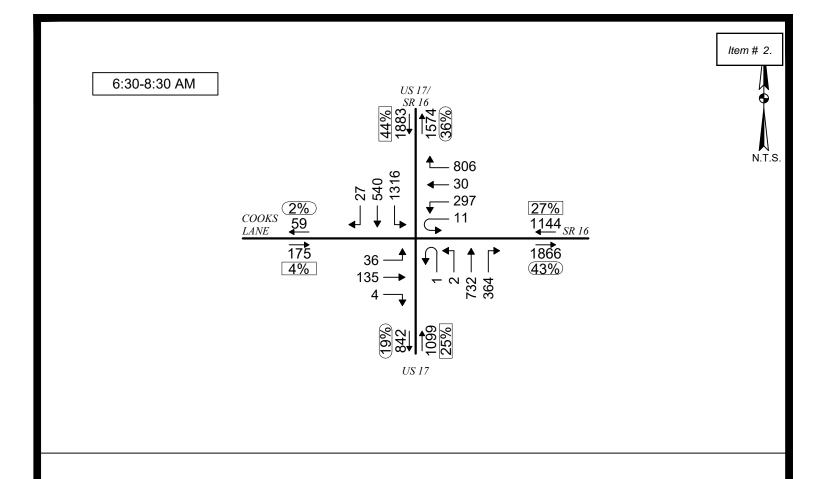


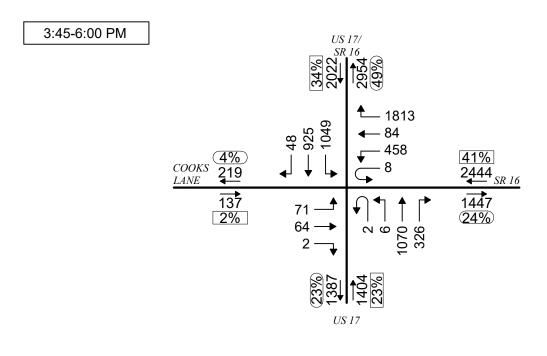


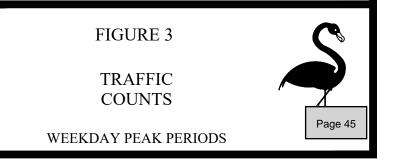


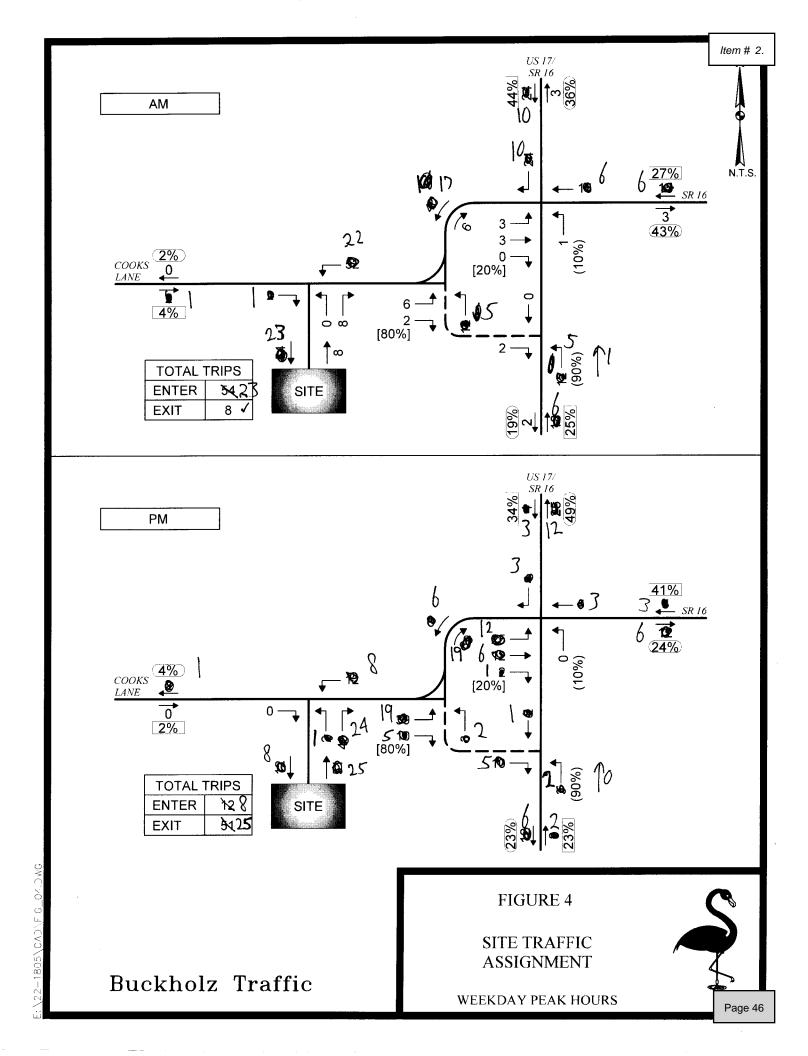


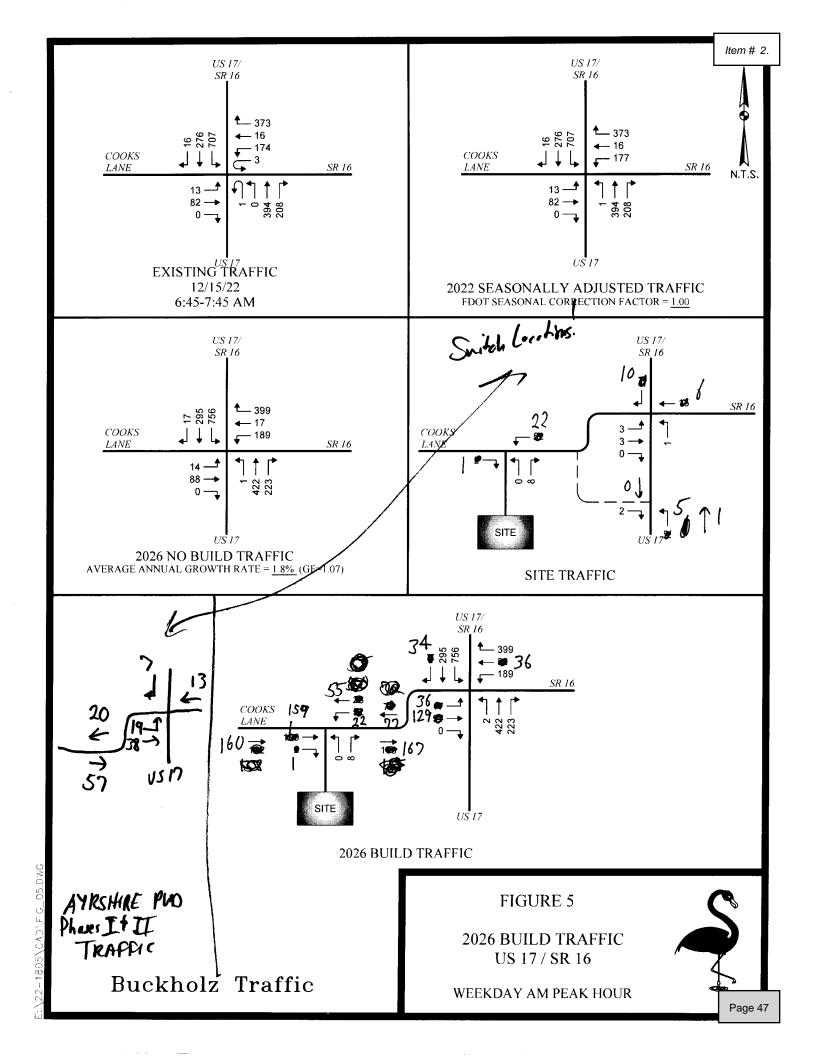
Buckholz Traffic

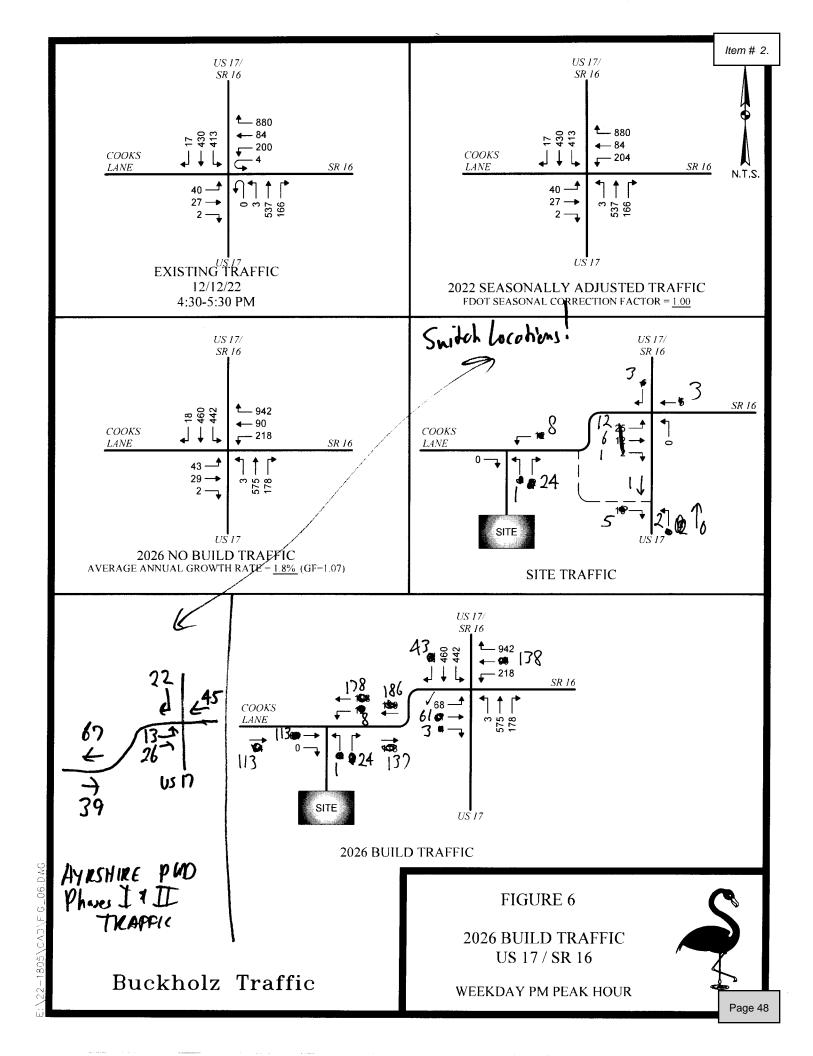




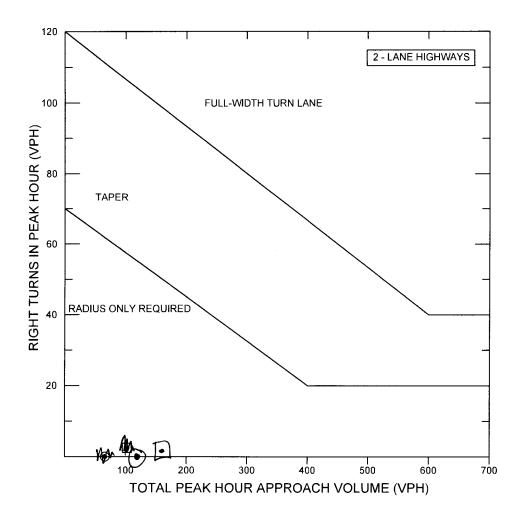








#### EASTBOUND COOKS LANE @ SITE DRIVEWAY



#### NOMOGRAPH FOR RIGHT TURN LANES

SOURCE: TRANSPORTATION RESEARCH BOARD NCHRP REPORT #279

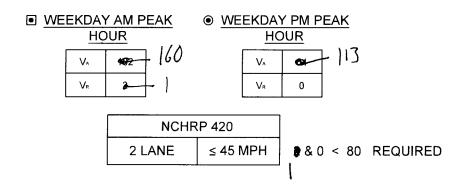


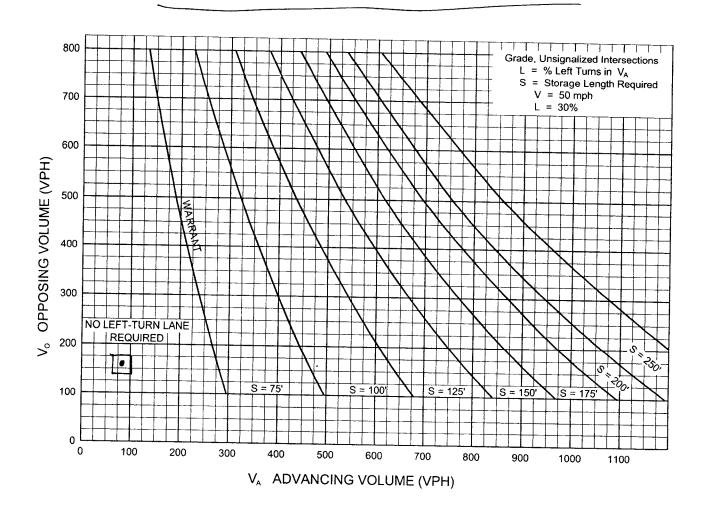
FIGURE 7

RIGHT TURN LANE ANALYSIS

2025 BUILD TRAPPO

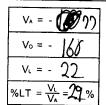


# WESTBOUND COOKS LANE AT SITE DRIVENAY



# WARRANT FOR LEFT-TURN LANES ON TWO-LANE HIGHWAYS

#### • AM PEAK HOUR





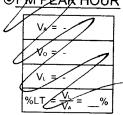


FIGURE 8

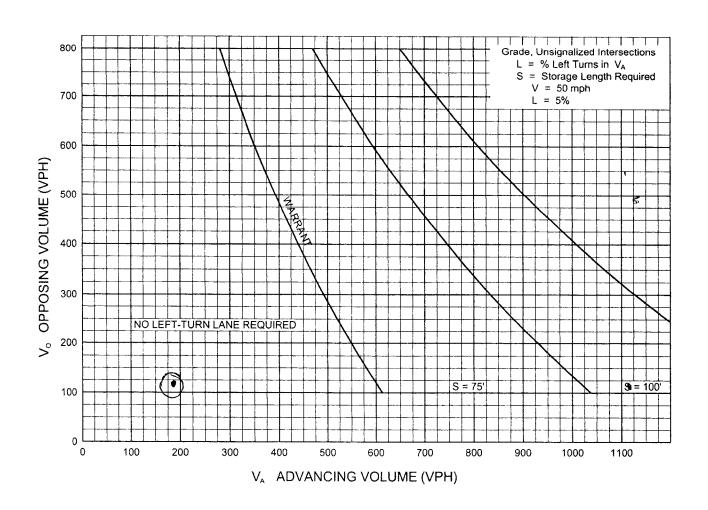
LEFT TURN LANE AMALYSIS

SOURCE: HARMELINK

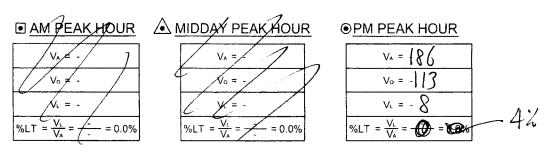
2025 BUILD TRAPPOL

# YM\WAR\_LTL1a.dwg Date: 10-27-15 T: 14:02 By: AVDelacruz

# WESTBOND COOKS LAME AT SITE DRIVENAY



#### WARRANT FOR LEFT-TURN LANES ON TWO-LANE HIGHWAYS



SOURCE: HARMELINK

LEFT TURN LANE ANALYSIS

figure 9

2025 RUILD TRAPPIC



Page 51

TABLE 1

#### TRIP GENERATION CALCULATIONS

#### WAREHOUSING

Land Use Code 150

T = Number of Vehicle Trip Ends

Size of Building = 26,000 gsf (X = 26)

TIME PERIOD	TOTAL TRIP GENERATION EQUATION	TOTAL TRIP ENDS	PERCENT ENTERING	PERCENT EXITING	TOTAL TRIP ENDS ENTERING	TOTAL TRIP ENDS EXITING
AVERAGE WEEKDAY						
Daily	T = 1.71 (X)	44	50%	50%	22	22
AM Peak Hour	T = 0.17 (X)	4	77%	23%	3	1
PM Peak Hour	T = 0.18 (X)	5	28%	72%	1	4

SOURCE: Institute of Transportation Engineers, "Trip Generation", 11th Edition (2021)

TABLE 2

#### TRIP GENERATION CALCULATIONS

#### GENERAL OFFICE BUILDING

Land Use Code 710

T = Number of Vehicle Trip Ends

Size of Building = 5000 gsf (X = 5)

	TOTAL	TOTAL			TOTAL	TOTAL
TIME PERIOD	TRIP GENERATION <u>EQUATION</u>	TRIP <u>ENDS</u>	PERCENT ENTERING	PERCENT <u>EXITING</u>	TRIP ENDS ENTERING	TRIP ENDS <u>EXITING</u>
AVERAGE WEEKD	AY					
Daily	Ln(T) = 0.87 Ln(X) + 3.05	86	50%	50%	43	43
AM Peak Hour	Ln(T) = 0.86 Ln(X) + 1.16	13	88%	12%	11	2
PM Peak Hour	Ln(T) = 0.83 Ln(X) + 1.29	14	17%	83%	2	12

SOURCE: Institute of Transportation Engineers, "Trip Generation", 11th Edition (2021)

TABLE 3
VAN UP-FITTER
TRIP GENERATION CALCULATIONS

<u>TRIPS</u>	<u>On-Site Employees</u> 5	<u>Customers</u> 5 per month	Package Delivery 12 per month	<u>Vehicle Pick-Up/Drop-Off</u> 5 per month	EXISTING <u>TOTAL</u>	Expected Percentage <u>Increase</u>	FUTURE <u>TOTAL</u>
Daily	5 x 4 = 20 10 ENTER, 10 EXIT	2 1 ENTER, 1 EXIT	2 1 ENTER, 1 EXIT	2 1 ENTER, 1 EXIT	22 11 ENTER, 11 EXIT	10'%	24 12 ENTER, 12 EXIT
AM Peak	5 x 1 = 5 ENTER	0	0	0	5 5 ENTER, 0 EXIT	10'%	6 6 ENTER, 0 EXIT
PM Peak	5 x 1 = 5 EXIT	0	0	0	5 O ENTER, 5 EXIT	10'%	6 0 ENTER, 6 EXIT

TABLE 4
RIVER OAKS OUTDOOR
TRIP GENERATION CALCULATIONS

						Expected	
					EXISTING	Percentage	FUTURE
<u>TRIPS</u>	On-Site Employees	<u>Customers</u>	Package Delivery	Company Vehicles	<u>TOTAL</u>	<u>Increase</u>	<b>TOTAL</b>
	2	0	5 per month	5 per day			
Daily	2 x 4 = 8	0	2	10	20	10'%	22
	4 ENTER, 4 EXIT		1 ENTER, 1 EXIT	5 ENTER, 5 EXIT	10 ENTER, 10 EXIT		11 ENTER, 11 EXIT
AM Peak	2 x 1 = 2	0	0	4	6	10'%	8
	ENTER			EXIT	2 ENTER, 4 EXIT		3 ENTER, 5 EXIT
PM Peak	2 x 1 = 2	0	0	4	6	10'%	8
	EXIT			ENTER	4 ENTER, 2 EXIT		5 ENTER, 3 EXIT

#### **TABLE 5**

# UNSIGNALIZED INTERSECTION CAPACITY RESULTS COOKS LANE / SITE DRIVE

2026 BUILD CONDITIONS		WEEKD	AY AM PEAK HO	OUR
Movement	LOS	Delay	v/c Ratio	95th % Queue (vehicles)
Westbound Left Turn	A	7.6 sec/veh	0.02	1
Northbound Approach	A	9.1 sec/veh	0.01	1

2026 BUILD CONDITIONS		WEEKD	AY PM PEAK HO	OUR
Movement	LOS	Delay	v/c Ratio	95th % Queue (vehicles)
Westbound Left Turn	A	7.5 sec/veh	0.01	1
Northbound Approach	A	9.1 sec/veh	0.03	1

# TABLE 6 SUMMARY OF SIGNALIZED INTERSECTION CAPACITY RESULTS US 17 / SR 16 / COOKS LANE

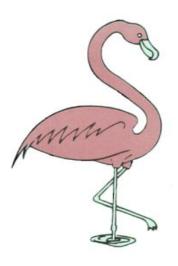
			EXISTIN	G CONDITIONS		
	Highest v/c Ratio	Highest Queue Storage Ratio	Worst Movement Delay & LOS	Intersection Delay & LOS	Approach LOS	Cycle Length
AM PEAK HOUR	0.82 NBRT	0.99 NBRT	NBLT 168.5 sec/veh LOS F	30.8 sec/veh LOS C	NB/SB: D/C EB/WB: D/C	99 sec
PM PEAK HOUR	0.97 WBRT	0.52 NBRT	NBLT 106.3 sec/veh LOS F	37.9 sec/veh LOS D	NB/SB: D/C EB/WB: D	106 sec

			2026 BUILD CONDITIONS												
	Highest v/c Ratio			Intersection Delay & LOS	Approach LOS	Cycle Length									
AM PEAK HOUR	0.82 SBLT	0.83 NBRT	NBLT 125.6 sec/veh LOS F	32.9 sec/veh LOS C	NB/SB: D/C EB/WB: D/C	105 sec									
PM PEAK HOUR	<b>1.02</b> WBRT	0.95 EBT	NBLT 112.9 sec/veh LOS F WBRT 58.3 sec/veh LOS F	44.7 sec/veh LOS D	NB/SB: D/C EB/WB: D	117 sec									

			2026 BUILD CONDITIONS – BALANCED TIMINGS													
	Highest v/c Ratio	Highest Queue Storage Ratio	Worst Movement Delay & LOS	Intersection Delay & LOS	Approach LOS	Cycle Length										
AM PEAK HOUR	0.78 SBLT	1.23 NBRT	WBLT 69.5 sec/veh LOS E	53.8 sec/veh LOS D	NB/SB: <b>E</b> EB/WB: <b>E</b> /D	193 sec										
PM PEAK HOUR	0.99 WBRT	<b>1.07</b> EBT	NBT 55.4 sec/veh LOS E	50.0 sec/veh LOS D	NB/SB: D EB/WB: <b>E</b> /D	140 sec										

# **APPENDIX A**

# **SITE PLAN**



## **LOCATION MAP**





Proposed Location

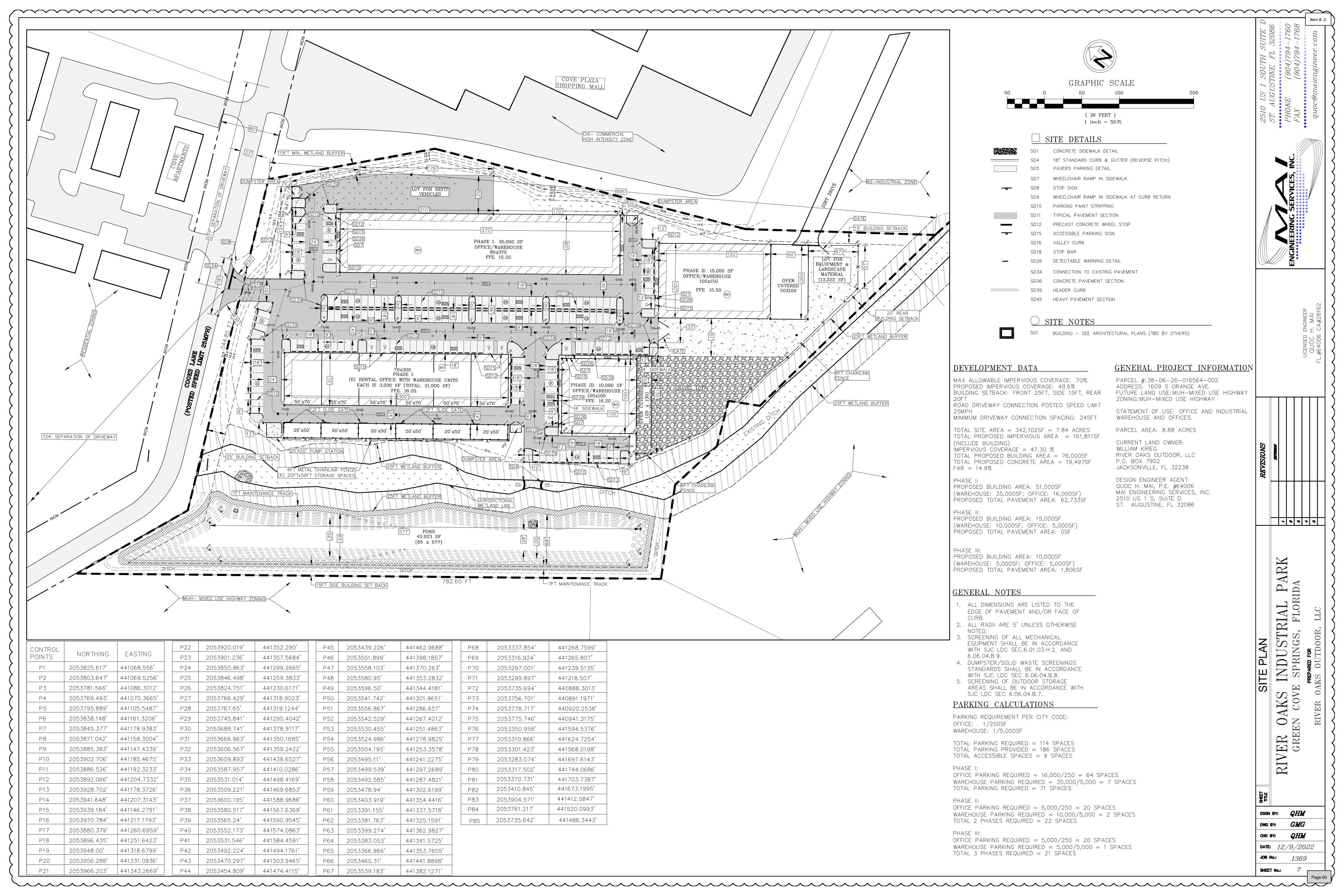




2510 U.S. Highway 1, Ste. D St. Augustine, FL 32086 Ph: (904) 794-1760 • Fax: (904) 794-1768 E-mail: <u>quoc@maiengineer.com</u> LOCATION MAP

1609 S ORANGE AVE.

GREEN COVE SPRINGS, FL.



# **APPENDIX B**

# **TURNING MOVEMENT COUNTS**



MANUAL TURNING MOVEMENTS COUNT

DAY: THURSDAY

PHF

.90

DATE: 12/15/22

WEATHER: CLOUDY & LT RAIN

BEGIN TIME (MILITARY): 06:30 Hrs

US 17 @ SR 16/COOKS LANE

CLAY COUNTY, FLORIDA

Item # 2.

File I.D. : 12152203

Page : 1

.74

#### AUTOMOBILES, COMMERCIAL VEHICLES

	US 17 From No:	rth			SR 16  From Eas	st			US 17	ıth			COOKS L			1	
Date 12/3	Left		_		Left	Thru	Right	U-TURN	   Left 	Thru	Right	U-TURN	Left	Thru	Right U	-TURN	Total
2400 227	,																
06:30	170	65	1	0	28	2	89	5	0	83	64	0	3	25	0	0	535
06:45	194	83	2	0	37	5	76	0	0	98	73	0	2	20	0	0	590
07:00	186	47	4	0	44	5	75	1	0	111	51	0	5	27	0	0	556
07:15	180	77	7	0	40	3	114	2	0	85	42	1_	3	25	0	0	579
Hr Total	730	272	14	0	149	15	354	8	0	377	230	1	13	97	0	0	2260
07:30	147	69	3	0	53	3	108	0	0	100	42	0	3	10	0	0	538
07:45	166	78	1	0	39	8	105	1	0	86	34	0	7	8	1	0	534
08:00	139	65	5	0	32	2	113	1	. 0	94	34	0	7	9	2	0	503
08:15	134	56	4	0	24	2	126	1	2	75	24	0	6	11	1	0	466
Hr Total	586	268	13	0	148	15	452	3	[ 2	355	134	0	23	38	4	0	2041
*TOTAL*	1316	540	27	0	297	30	806	11	2	732	364	1	36	135	4	0	4301
Peak Hou	r Analy	sis By	Entire	Interse	ction for	r the I	eriod:	06:45 t	07:45	on 12/1	 L5/22						<b>-</b>
Peak sta	rt 06:4	5			06:4	5			06:4	5			06:4	5			
Volume	707	276	16	0	174	16	373	3	0	394	208	1	13	82	0	0	
Percent	71%	28%	2%	0%	31%	3%	66%	1%	0%	65%	34%	0%	14%	86%	0%	0%	
Pk total	999				566				603				95			1	
Highest	06:4	5			07:3	0			06:4	5			07:0	0		I	
Volume	194	83	2	0	53	3	108	0	0	98	73	0	5	27	0	0	
Hi total	279				164				171				32			I	

CLAY COUNTY, FLORIDA

MANUAL TURNING MOVEMENTS COUNT US 17 @ SR 16/COOKS LANE

DAY: THURSDAY

DATE: 12/15/22

WEATHER: CLOUDY & LT RAIN

BEGIN TIME (MILITARY): 06:30 Hrs

Item # 2. Start Dat

File I.D. : 12152203

Page : 1

#### AUTOMOBILES

!	US 17				SR 16				US 17				COOKS L			. !	
	From No:	rth			From Ea	st			From So	uth			From We	st		1	
Date 12/	Left 15/22		_	U-TURN	Left		_	U-TURN	•	Thru	Right	U-TURN	Left	Thru	Right U	-TURN	Total
06:30	153	59	0	0	l 24	2	84	5	l o	75	55	0	3	23	0	0	483
06:45	184	72	1	0	•	5	71		•	87	61		I 2	20	0	0	533
07:00	166	42	4	0		2	72		1	103	39		l 5	26	0	0	489
07:00	161	71	6		•	3	106			79	30		•	24	0	0	517
Hr Total		244	11	0	-	12	333			344	185			93	0	0	2022
07:30	129	54	2	0	47	3	91	0	0	91	35	0	3	9	0	0	464
07:45	148	71	1	0	33	7	93	1	0	74	24	0	j 6	7	1	0	466
08:00	128	47	5	0	24	2	95	0	0	80	32	0	6	7	1	0	427
08:15	118	49		0	21	2	108	1	2	63	15	0	6	11	0	0	399
Hr Total	. 523	221	11	0	125	14	387	2	2	308	106	0	21	34	2	0	1756
*TOTAL*	1187	465	22	0	239	26	720	10	2	652	291	1	34	127	2	0	3778
	r Analy			Interse	ection fo	r the	Period:	06:45 t	0 07:45	on 12/							
Peak sta	rt 06:4	5			06:4	5			06:4	5			06:4			1	
Volume	640	239	13	0	137	13	340	3	0	360	165		•	79	0	0 [	
Percent	72%	27%	1%	0%	28%	3%	69%	18	0%	68%	31%	0%	14%	86%	0%	0%	
Pk total	. 892				493				526				92				
Highest	06:4	5			07:1	.5			06:4	5			07:0				
Volume	184	72	1	0	31	3	106	2	0	87	61	0	5	26	0	0	
Hi total	257				142				148				31			ļ	
PHF	.87				.87				.89				.74			1	

MANUAL TURNING MOVEMENTS COUNT

US 17 @ SR 16/COOKS LANE CLAY COUNTY, FLORIDA Site Code Start Dat Item # 2.

File I.D. : 12152203

Page : 1

BEGIN TIME (MILITARY): 06:30 Hrs

WEATHER: CLOUDY & LT RAIN

DAY: THURSDAY

DATE: 12/15/22

#### COMMERCIAL VEHICLES

	US 17 From No:	rth			SR 16  From Eas	st			US 17 From So	uth			COOKS L  From We			1	
Date 12/	Left 15/22		_		   Left		_	U-TURN			Right	U-TURN	Left	Thru	Right U	TURN	Total
Juog 12,	,																
06:30	17	6	1	0	4	0	5	0	0	8	9	0	0	2	0	0	52
06:45	10	11	1	0	7	0	5	0	0	11	12	0	0	0	0	0	57
07:00	20	5	0	0	15	3	3	0	0	8	12	0	0	1	0	0	67
07:15	19	6	1	0	9	0	8	0	0	6_	12	0_		1	0	0	62
Hr Total	66	28	3	0	35	3	21	0	0	33	45	0	0	4	0	0	238
07:30	18	15	1	0	6	0	17	0	j o	9	7	0	0	1	0	0	74
07:45	18	7	0	0	6	1	12	0	0	12	10	0	1	1	0	0	68
08:00	11	18	0	0	8	0	18	1	0	14	2	0	1	2	1	0	76
08:15	16	7	1	0	3	0	18	0	0	12	9	0	1 0	0	1	0	67
Hr Total	63	47	2	0	23	1	65	1	0	47	28	0	2	4	2	0	285
* *TOTAL*	129	75	5	0	58	4	86	1	0	80	73	0	2	8	2	0	523
Peak Hou	ır Analy	sis By			ection fo				07:45		 15/22						
Peak sta					06:4				06:4				06:4			- 1	
Volume	67	37	3		•	3	33		0	34	43	0	0	3	0	0	
Percent	63%	35%	3%	0%	•	48	45%	0%	•	44%	56%	0%	•	100%	0%	0%	
Pk total					73				77				3			l l	
Highest	07:3				07:3				06:4				07:0				
Volume	18	15	1	0	6	0	17	0	0	11	12	0	•	1	0	0	
Hi total	34				23				23				1			1	
PHF	.79				.79				.84				.75				

MANUAL TURNING MOVEMENTS COUNT

US 17 @ SR 16/COOKS LANE CLAY COUNTY, FLORIDA

WEATHER: CLOUDY & LT RAIN

DAY: THURSDAY

DATE: 12/15/22

PHF

. 0

BEGIN TIME (MILITARY): 06:30 Hrs

PEDESTRIAN & BICYCLES

							F 13.	DEDIKIN	N W DIOIG			<b>-</b>					
U	s 17				SR 16				US 17				cooks r			l	
Fi	rom Nor	rth			From Eas	3t			From Sou	th			From We	st			
	Left	Thru	Right	PEDS	   Left	Thru	Right	PEDS	   Left	Thru	Right	PEDS	   Left	Thru	Right	PEDS	Total
Date 12/19	5/22					<del></del> -					. <b></b>						
06:30	0	0	0	0	0	o	0	0	0	0	0	1	0	0	0	0	1
06:45	0	0	0	0	0	0	0	0	j 0	0	0	0	0	0	0	0	0
07:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15	00	0	0	0	0	0	0	0	1 0	0	0	00	0	0	0	0	0
Hr Total	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
07:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45	0	0	0	О	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00	o	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15	0	0	0	0	0	0	0	0	1 0	0	0	0	0	_0	0	0	0
Hr Total	0	0	0	0	ļ o	0	0	0	0	0	0	0	0	0	0	0	0
*TOTAL*	0	0	0	0	0	0	0	0	1 0	0	0	1	0	0	0	0	1
Peak Hour			Entire	Interse	ction fo	r the	 Period:	06:45 t	0 07:45	on 12/							
Peak star	t 06:4	5			06:4	5			06:4	5			06:	45			
Volume	0	0	0	0	] 0	0	0	0	0	0	0	0	0	0	0	0	ļ
Percent	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	l
Pk total	0				0				0				0				l
Highest	06:3	0			06:3	0			06:3	ס			06:	30			
Volume	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
Hi total	0				0				0				) 0				Ì

.0

.0

MANUAL TURNING MOVEMENTS COUNT US 17 @ SR 16/COOKS LANE

S 17 @ SR 16/COOKS LAN CLAY COUNTY, FLORIDA Site Code
Start Dat Item # 2.
File I.D.: 12122203
Page: 1

WEATHER: CLEAR & DRY

DAY: MONDAY

DATE: 12/12/22

BEGIN TIME (MILITARY): 15:45 Hrs

#### AUTOMOBILES, COMMERCIAL VEHICLES

ט	S 17				SR 16				US 17 COOKS LANE								
F	rom Noi	rth			From Bas	st			From So	uth			From We	st		1	
	Left	mh	Diebe II	mum.v.		Tilo ser s	Bioht	U-TURN	Loft	Thru	Piaht	U-TURN	   Left	Thru	Right U	-TURN	Tota
Date 12/1			Right U	-TURN	[ Lerc	Inru	Kignt	U-IURN	Perc		Kight						<b></b>
ace 12/1	2/22																
.5:45	119	109	8	0	48	12	188	1	0	109	40	2	5	8	0	0	64
.6:00	114	101	9	0	56	16	194	0	2	102	26	0	7	5	0	0	63
16:15	112	94	12	0	60	23	180	1	1	105	28	0	8	13	0	0	63
16:30	114	112	2	0	50	20	199	1	1	164	41	0	13	4	11	0	72
ir Total	459	416	31	0	214	71	761	3	4	480	135	2	33	30	1	0	264
16:45	148	111	5	0	40	15	222	1	1	99	47	0	8	11	0	0	70
L7:00	139	108	4	0	59	22	244	2	1	151	45	0	•	3	0	0	78
7:15	112	99	6	0	51	27	215	0	0	123	33	0	•	9	1	0	68
7:30	122	98	11	0	53	20	197	0	0	103	30	0_		4	0	0	63
ir Total	521	416	16	0	203	84	878	3	2	476	155	0	34	27	1	0	281
L7:45	69	93	1	0	41	10	174	2	0	114	36	0	4	7	0	0	55
ir Total	69	93	1	0	41	10	174	2	0	114	36	0	4	7	0	0	55
*TOTAL*	1049	925	48	0	458	165	1813	8	6	1070	326	2	71	64	2	0	600
eak Hour		 sis By	Entire I	nterse	ction fo	r the I	eriod:	16:30 to	 5 17:30	on 12/1							
eak star	t 16:3	0			16:3	0			16:3	0			16:3	0		1	
olume	513	430	17	0	200	84	880	4		537	166	0	40	27	2	0	
Percent	53%	45%	2%	0%	17%	7%	75%	0%	] 0%	76%	24%	0%	58%	39%	3%	0%	
k total	960				1168				706				69			1	
lighest	16:4	5			17:0	0			16:3	0			17:1	.5		1	
olume	148	111	5	0	59	22	244	2	1	164	41	0	10	9	1	0	
Ii total	264				327				206				20			1	
PHF	.91				. 89				.86				.86				

MANUAL TURNING MOVEMENTS COUNT

US 17 @ SR 16/COOKS LANE CLAY COUNTY, FLORIDA

AUTOMOBILES

Item # 2. Start Dat File I.D. : 12122203

: 1

Page

DAY: MONDAY

PHF

. 92

.89

DATE: 12/12/22

WEATHER: CLEAR & DRY

BEGIN TIME (MILITARY): 15:45 Hrs

					 lan 46				บร 17				cooks L	AND			
	US 17				SR 16			'					From We				ı
	From No	rth			From Bas	it			From So	utn			From we	BC			ı
	Left	Thru	Right	U-TURN	   Left	Thru	Right	U-TURN	Left	Thru	Right	U-TURN	Left	Thru	Right	U-TURN	Total
Date 12	/12/22 -								<b>-</b>								
25.45	110	104	8	0	l 36	10	1.00	1	0	99	36	2	1 5	6	0	0	585
15:45	112				•	10	166	1		99	24		•	5	0	0	ji
16:00	103	90	9	0		11	173		2			-	'		0	0	
16:15	108	88	12	0	49	21	164	_	1	93	25			13			
16:30	109	105	2	0	<u> </u>	17	182			153	38			3	1		663
Hr Total	l 432	387	31	0	171	59	685	3	4	436	123	2	29	27	1	0	2390
16:45	140	104	4	0	38	12	200	1	1	88	40	0	] 8	11	0	0	647
17:00	135	102	4	0	51	21	225	2	1	137	43	0	8	3	0	0	732
17:15	108	93	6	0	48	26	202	0	0	114	32	0	10	7	1	0	647
17:30	117	90	1	0	52	19	192	0	0	98	29	0	7	4	0	0	609
Hr Tota	L 500	389	15	0	189	78	819	3	2	437	144	0	33	25	1	0	2635
17:45	65	86	1	0_	39	10	162	2	0	103	33	0	4	7	0	0	512
Hr Tota	l 65	86	1	0	39	10	162	2	0	103	33	0	4	7	0	0	512
*TOTAL*	997	862	47	0	399	147	1666	8	   6	976	300	2	66	59	2	0	5537
				<b></b>					<b></b> -	<del></del>	<b></b>						
	-	_	Entire	Interse	ction for		eriod:	16:30 to			12/22						
Peak st					16:3				16:3				16:3		_	_	ł ·
Volume	492	404	16	0		76	809			492	153		•	24	2		<u> </u>
Percent	54%	44%	2%	0%		7%	76%	0%		76%	24%	0%	·	39%	3%	0%	ł ·
Pk tota					1068				648				61				!
Highest	16:4				17:0				16:3				16:4				
Volume	140	104	4	0	51	21	225	2	1	153	38	0	8	11	0	0	1
Hi tota	1 248				299				192				19				ŀ

.84

MANUAL TURNING MOVEMENTS COUNT

US 17 @ SR 16/COOKS LANE CLAY COUNTY, FLORIDA Site Code Start Dat Item # 2. File I.D. : 12122203

: 1

Page

BEGIN TIME (MILITARY): 15:45 Hrs

DAY: MONDAY

PHF

.75

.89

DATE: 12/12/22

WEATHER: CLEAR & DRY

COMMERCIAL VEHICLES

						<b>-</b>	- <b></b>										
τ	JS 17				SR 16				US 17				COOKS L	ANE			
I	From No	rth			From Ea	st			From Sou	ıth			From We	st		I	
					1								1			1	
	Left		Right (	J-TURN	Left	Thru	Right	U-TURN	Left	Thru	Right	U-TURN	Left	Thru	Right	U-TURN	Total
Date 12/3	12/22		~														
15:45	7	5	0	0	12	2	22	0	0	10	4	0	1 0	2	0	0	64
16:00	11	11	0	0	12	5	21	0	0	11	2	0	0	0	0	0	73
16:15	4	6	0	0	11	2	16	0	0	12	3	0	0	0	0	0	54
16:30	5	7	0	0	] 8	3	17	0	0	11	3	0	<u> </u>	1	0	0	59
Hr Total	27	29	0	0	43	12	76	0	0	44	12	0	4	3	0	0	250
16:45	8	7	1	0	2	3	22	0	0	11	7	0	0	0	0	0	61
17:00	4	6	0	0	8	1	19	0		14	2	0	1	0	0	0	55
17:15	4	6	0	0	3	1	13	0	0	9	1	0	0	2	0	0	39
17:30	5	8	0	0	1	1	5	0	] 0	5	1	0	0	0	0	0	26
Hr Total	21	27	1	0	14	6	59	0	1 0	39	11	0	1	2	0	0	181
17:45	4	. 7	0	0	2	0	12	0	0	11	3	0	0	0	Ō	0	39
Hr Total	4	7	0	0	2	0	12	0	] 0	11	3	0	0	0	0	0	39
*TOTAL*	52	63	1	0	59	18	147	0	0	94	26	o	5	5	 0	0	470
Peak Hour	r Analys	sis By	Entire 1	Interse	ction for	r the E	eriod:	16:30 t	o 17:30 d	on 12/1	L2/22						
Peak star	rt 16:30	0			16:3	0			16:30	)			16:3	0			
Volume	21	26	1	0	21	8	71	0	0	45	13	0	5	3	0	0	ı
Percent	44%	54%	2%	0%	21%	8%	71%	0%	0%	78%	22%	0%	62%	38%	0%	0%	1
Pk total	48				100				58				8				:
Highest	16:4	5			16:3	0			16:45	5			16:3	0			
Volume	8	7	1	0	8	3	17	0	) 0	11	7	0	4	1	0	0	
Hi total	16				28				18				5				

.81

DAY: MONDAY

PHF

. 0

. 0

DATE: 12/12/22

WEATHER: CLEAR & DRY

BEGIN TIME (MILITARY): 15:45 Hrs

MANUAL TURNING MOVEMENTS COUNT

US 17 @ SR 16/COOKS LANE CLAY COUNTY, FLORIDA Site Code Item # 2.

File I.D. : 12122203

Page : 1

PEDESTRIAN & BICYCLES

																	. <b></b>
τ	US 17				SR 16				US 17				COOKS L	ANE			
1	From Nor	th			From Ea	st			From So	uth			From We	st			1
	T . 51	m)	<b>-: .</b> .				_, ,				_,,,				n! 16	5554	
D-1- 10/	Left		Right	PEDS	Left	Thru	Right	PEDS	Left	Thru	Right	PEDS	Left	Thru	Right	PEDS	Total
Date 12/	12/22																
15:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
16:15	0	0	0	0	0	О	0	0	0	0	0	0	0	0	0	0	0
16:30	0	0	0	0	1 0	0	0	0	0	0	0	0	] 0	0	0	0	0
Hr Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
16:45	0	0	0	0	0	0	0	0	[ 0	0	0	0	0	0	0	0	0
17:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	. 0	0	0
17:15	0	0	0	0	0	0	0	О	0	0	0	0	0	0	0	0	0
17:30	0	0	0	0	] 0	0	0	0	0	0	0	0	0	0	0	0	. 0
Hr Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17:45	0	0	0	_1_	1 0	0	0	0		0	0	0	0	.0	0	0	1
Hr Total	0	0	0	1	0	0	0	0	[ 0	0	0	0	0	0	0	0	1
*TOTAL*	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	2
Peak Hou	r Analys	is By	Entire	 Interse	ction fo	r the E	eriod:	 16:30 t	 o 17:30 (	 on 12/1	 12/22						
Peak sta					16:3				16:3				16:3	0			
Volume	0	0	0	0	•	0	0	0	•	0	0	0	•	0	0	0	
Percent	0%	0%	0%	0%	0%	0%	0%	0%	•	0%	0%	0%	•	0%	0%	0%	
Pk total	0				. 0				0								
Highest	15:45	;			15:4	5			15:4	5			15:4	5			
Volume	0	0	0	0		0	0	0	,	0	0	0	0	0	0	0	
Hi total	0				0												
									-				-				

# APPENDIX C

# FDOT TRAFFIC DATA

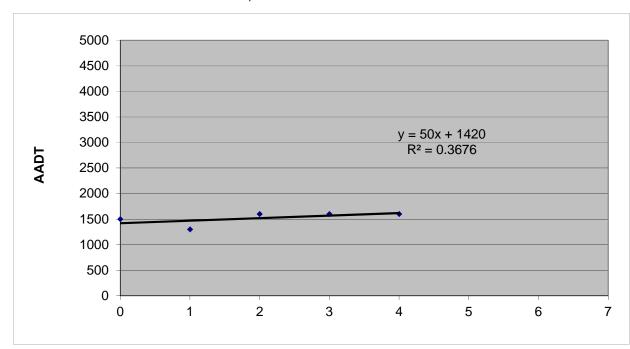


TABLE C-1 LINEAR REGRESSION ANALYSIS

Cooks Lane, West of US 17

<u>Year</u>	<u>X</u>	Actual AADT (Y)	Predicted <u>AADT</u>
2017	0	1500	1420
2018	1	1300	1470
2019	2	1600	1520
2020	3	1600	1570
2021	4	1600	1620
2022	5		1670
2023	6		1720
2024	7		1770

i = 3.2%



# FLORIDA DEPARTMENT OF TRANSPORTATION TRANSPORTATION STATISTICS OFFICE 2021 HISTORICAL AADT REPORT

COUNTY: 71 - CLAY

SITE: 9115 - GREEN COVE AVE. .1 MI. W. OF US 17

YEAR	AADT	DIRE	CTION 1	DIRE	CTION 2	*K FACTOR	D FACTOR	T FACTOR	
2021	1600 C	 E	0	 W	0	9.00	53.50	1.40	
2021	1600 C	E	0	W	0	9.00	54.50	1.30	
2019	1600 C	Ē	Ö	W	Ö	9.00	54.10	1.30	
2018	1300 C	E	0	W	0	9.00	54.20	1.20	
2017	1500 C	E	0	W	0	9.00	54.50	1.10	
2016	1400 C	E	0	W	0	9.00	54.30	1.70	
2015	1300 C	E	0	W	0	9.00	54.50	1.40	
2014	1100 C	E		W		9.00	54.50	1.60	
2013	1300 S		0		0	9.00	55.10	1.50	
2012	1300 F		0		0	9.00	54.60	2.00	
2011	1300 C	E	0	W	0	9.00	54.70	1.50	

AADT FLAGS: C = COMPUTED; E = MANUAL ESTIMATE; F = FIRST YEAR ESTIMATE

S = SECOND YEAR ESTIMATE; T = THIRD YEAR ESTIMATE; R = FOURTH YEAR ESTIMATE

V = FIFTH YEAR ESTIMATE; 6 = SIXTH YEAR ESTIMATE; X = UNKNOWN

\*K FACTOR: STARTING WITH YEAR 2011 IS STANDARDK, PRIOR YEARS ARE K30 VALUES

71 COUNTY: STATION: 9115

DESCRIPTION: GREEN COVE AVE. .1 MI. W. OF US 17

11/09/2021 START DATE:

START TIME: 0000

штип	1 om		ECTION:	В	шошат
TIME	1ST 	2ND	3RD	4TH 	TOTAL
0000 0100 0200 0300 0400 0500 0600 0700 0800 0900 1000 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300	0 1 2 1 6 29 46 41 124 27 15 16 22 37 55 27 14 12 3 4	3 1 1 8 6 3 8 1 6 1 6 1 6 2 1 8 9 3 1 4 3 2 4 3 2 4 3 2 4 4 4 6 4 6 4 4 4 4 6 4 4 4 6 4 6 4 6	0 1 0 1 10 9 43 35 20 16 17 24 23 17 30 43 49 40 26 9 9 11 4 3	0 0 1 3 9 21 50 26 31 15 23 23 22 34 39 31 14 11 5 7	3 3 4 6 28 42 165 145 108 78 70 88 91 64 81 123 168 161 91 43 32 20 13
24-HOUR	TOTALS:				1638

PEAK VOLUME INFORMATION

	HOUR	VOLUME
A.M.	645	169
P.M.	1615	186
DAILY	1615	186

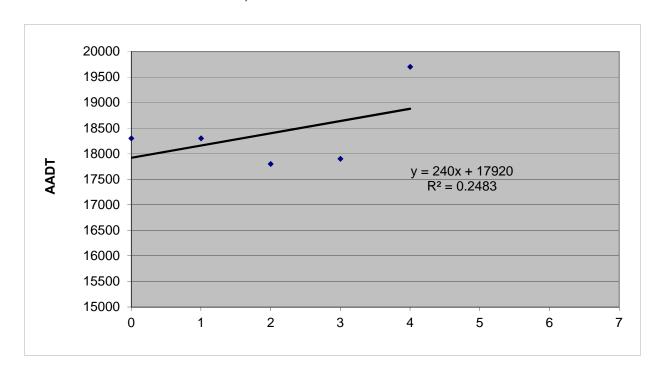
GENERATED BY SPS 5.0.57P

TABLE C-2 LINEAR REGRESSION ANALYSIS

**SR 16, East of US 17** 

<u>Year</u>	<u>X</u>	Actual AADT (Y)	Predicted <u>AADT</u>
2017	0	18300	17920
2018	1	18300	18160
2019	2	17800	18400
2020	3	17900	18640
2021	4	19700	18880
2022	5		19120
2023	6		19360
2024	7		19600

i = 1.3%



#### **BUCKHOLZ TRAFFIC**

# FLORIDA DEPARTMENT OF TRANSPORTATION TRANSPORTATION STATISTICS OFFICE 2021 HISTORICAL AADT REPORT

COUNTY: 71 - CLAY

SITE: 0113 - SR 16 .75 MI. E. OF SR 15

YEAR	AADT	DI	RECTION 1	DI	RECTION 2	*K FACTOR	D FACTOR	T FACTOR
2021	19700 C		9700	— — W	10000	9.00	53.50	9.50
2020	17900 C	E	8800	W	9100	9.00	54.50	9.30
2019	17800 C	E	8600	W	9200	9.00	54.10	7.00
2018	18300 C	E	9100	W	9200	9.00	54.20	8.10
2017	18300 C	E	9000	W	9300	9.00	54.50	6.50
2016	16200 C	E	7900	W	8300	9.00	54.30	5.80
2015	14400 C	E	7100	W	7300	9.00	54.50	5.70
2014	14300 C	E	7200	W	7100	9.00	54.50	5.50
2013	13700 C	E	6800	W	6900	9.00	55.10	6.20
2012	12400 C	E	6200	W	6200	9.00	54.60	5.50
2011	12300 C	E	6100	W	6200	9.00	54.70	5.40
2010	13300 C	E	6600	W	6700	9.86	54.07	5.40
2009	14300 C	E	7100	W	7200	9.76	54.11	6.50
2008	15400 C	E	7600	W	7800	9.71	55.26	7.60
2007	15500 C	E	7800	W	7700	9.36	55.25	8.80
2006	16600 C	E	8300	W	8300	9.36	55.56	9.20

AADT FLAGS: C = COMPUTED; E = MANUAL ESTIMATE; F = FIRST YEAR ESTIMATE

S = SECOND YEAR ESTIMATE; T = THIRD YEAR ESTIMATE; R = FOURTH YEAR ESTIMATE

V = FIFTH YEAR ESTIMATE; 6 = SIXTH YEAR ESTIMATE; X = UNKNOWN

\*K FACTOR: STARTING WITH YEAR 2011 IS STANDARDK, PRIOR YEARS ARE K30 VALUES

COUNTY: 71 0113 STATION:

DESCRIPTION: SR 16 .75 MI. E. OF SR 15

START DATE: 11/17/2021

START TIME: 0000

TIME	1ST	DIRE 2ND	ECTION: 3RD	E 4TH	TOTAL	1	ST	DIRI 2ND	ECTION: 3RD	W 4TH	TOTAL	COMBINE TOTAL	D	
000 100 200 300 400 500 600 700 800 900 0100 200 300 400 500 600 700 800 900 000 100	3 1 8 6 12 53 205 273 161 129 132 106 161 149 157 136 172 223 113 82 34 38	2112 5 4 22 7 23 74 261 256 173 143 135 135 142 153 165 180 180 180 180 180 180 180 180 180 180	3 1 10 5 28 85 274 230 196 144 131 125 151 112 160 168 206 181 77 71 37	1111 4 1 5 10 32 126 304 210 139 140 133 137 148 159 154 178 198 124 88 47 42 26	15 7 25 28 95 338 1044 969 556 531 503 602 573 636 617 756 708 380 257 151		7 7 2 2 10 22 81 170 149 136 101 128 162 131 163 209 260 306 239 45 48 30	13 2 0 3 6 30 115 158 180 127 109 149 127 151 148 229 244 274 211 81 47 32	12 1 5 5 16 64 142 181 144 147 145 134 166 168 227 256 283 142 65 61	3 6 4 5 14 63 158 165 171 119 113 150 172 128 179 270 276 266 97 57 58	35 16 11 15 46 179 496 674 674 529 468 561 627 570 658 935 1029 689 2211 151	TOTAL  TOTAL  50 23 36 43 141 517 1540 1643 1313 1085 999 1064 1229 1143 1294 1552 1792 1837 1069 550 362 267 164 91	_	
_	19 9	18 9	15 5	17 8	69 31	   	30 20	19 13	24 12	22 15	95 60	164 91	_	
-HOUF	R TOTALS	5: 			9676						10128	19804	_	
A.M. P.M. DAILY	DIF HOUR 645 1615 615	RECTION: VC	E E DLUME 1063 807 1112	F	PEAK VOLU DII HOUR 730 1645	UME I RECTI	NFORM ON: W VOLU 6 11	IATION IME 75 39	С	OMBINED HOUR 645 1645 1645	D DIRECT VOI 1 1	TIONS JUME 1730 1921		
		AGE 9.	.02				9.89				9.4	17		
					SIFICAT:									
DIR 1 E 6 W 6	L 2 57 5433 50 5522	3 3 3303 2 3544	4 5 5	5 179 232	6 211 231	7 30 19	8 69 101	9 243 336	10 130 68	11 1 3	12 5 3	13 14 0 0 4 0	-	15 0 0

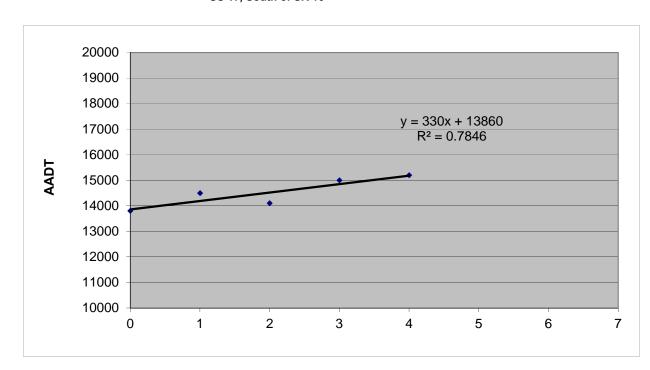
GENERATED BY SPS 5.0.57P

TABLE C-3 LINEAR REGRESSION ANALYSIS

US 17, South of SR 16

<u>Year</u>	<u>X</u>	Actual AADT (Y)	Predicted <u>AADT</u>
2017	0	13800	13860
2018	1	14500	14190
2019	2	14100	14520
2020	3	15000	14850
2021	4	15200	15180
2022	5		15510
2023	6		15840
2024	7		16170

i = 2.2%



#### **BUCKHOLZ TRAFFIC**

#### FLORIDA DEPARTMENT OF TRANSPORTATION TRANSPORTATION STATISTICS OFFICE 2021 HISTORICAL AADT REPORT

COUNTY: 71 - CLAY

SITE: 0196 - SR 15/US 17 .3 MI. S. OF SR 16 TO E.

YEAR	AADT	DII	RECTION 1	DIE	RECTION 2	*K FACTOR	D FACTOR	T FACTOR
2021	15200 C	N	7600	S	7600	9.00	53.50	12.10
2020	15000 C	N	7500	S	7500	9.00	54.50	14.00
2019	14100 C	N	7100	S	7000	9.00	54.10	10.70
2018	14500 C	N	7200	S	7300	9.00	54.20	11.80
2017	13800 C	N	6900	S	6900	9.00	54.50	9.70
2016	12900 C	N	6500	S	6400	9.00	54.30	10.50
2015	11600 C	N	5800	S	5800	9.00	54.50	11.20
2014	11100 C	N	5600	S	5500	9.00	54.50	10.90
2013	11200 C	N	5700	S	5500	9.00	55.10	12.30
2012	11400 C	N	5800	S	5600	9.00	54.60	11.10
2011	11400 C	N	5700	S	5700	9.00	54.70	11.80
2010	11600 C	N	5800	S	5800	9.86	54.07	11.10
2009	11800 C	N	5900	S	5900	9.76	54.11	10.90
2008	12400 C	N	6700	S	5700	9.71	55.26	13.00
2007	13500 C	N	6800	S	6700	9.36	55.25	12.50
2006	14400 C	N	7200	S	7200	9.36	55.56	14.80

AADT FLAGS: C = COMPUTED; E = MANUAL ESTIMATE; F = FIRST YEAR ESTIMATE

S = SECOND YEAR ESTIMATE; T = THIRD YEAR ESTIMATE; R = FOURTH YEAR ESTIMATE

V = FIFTH YEAR ESTIMATE; 6 = SIXTH YEAR ESTIMATE; X = UNKNOWN

\*K FACTOR: STARTING WITH YEAR 2011 IS STANDARDK, PRIOR YEARS ARE K30 VALUES

COUNTY: 71 STATION: 0196

DESCRIPTION: SR 15/US 17 .3 MI. S. OF SR 16 TO E.

START DATE: 11/17/2021

START TIME: 0000

DIRECTION: N DIRECTION: S COMBINED 1ST 2ND 3RD 4TH TOTAL 2ND 3RD 4TH TOTAL TIME 1ST 8 7 9 5 2 38 1 2 6 51 5 4 8 124 16 28 41 ?52 41 3 5 4 9 2 26 5 3 4 5 45 49 23 20 19 21 83 37 23 16 9 25 l 24-HOUR TOTALS: PEAK VOLUME INFORMATION 
 DIRECTION: N
 DIRECTION: S
 COMBINED DIRECTIONS

 HOUR VOLUME
 HOUR VOLUME
 HOUR VOLUME

 645
 602
 730
 510
 645
 1104

 1645
 727
 1515
 658
 1630
 1370

 1645
 727
 1515
 658
 1630
 1370
 HOUR VOLUME A.M. P.M. DAILY 1645 TRUCK PERCENTAGE 11.78 12.32 12.05 CLASSIFICATION SUMMARY DATABASE

11 12

0 1

Ω

Ω

GENERATED BY SPS 5.0.57P

67 4155

34 4076

4 5

DIR 1

Ν

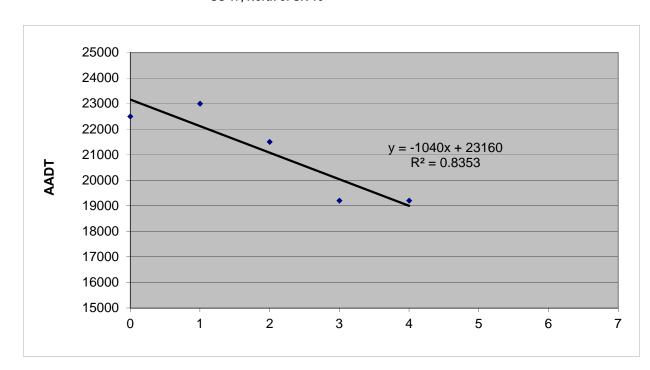
15 TOTTRK TOTVOL

TABLE C-4
LINEAR REGRESSION ANALYSIS

US 17, North of SR 16

<u>Year</u>	<u>X</u>	Actual AADT (Y)	Predicted <u>AADT</u>
2017	0	22500	23160
2018	1	23000	22120
2019	2	21500	21080
2020	3	19200	20040
2021	4	19200	19000
2022	5		17960
2023	6		16920
2024	7		15880

i = - 5.2%



**BUCKHOLZ TRAFFIC** 

# FLORIDA DEPARTMENT OF TRANSPORTATION TRANSPORTATION STATISTICS OFFICE 2021 HISTORICAL AADT REPORT

COUNTY: 71 - CLAY

SITE: 0142 - SR 15 .1 MI. N. OF SR 16 TO E.

YEAR	AADT	DI	RECTION 1	l DI	RECTION 2	*K FACTOR	D FACTOR	T FACTOR
2021	19200 F	N	9700	 S	9500	9.00	53.50	12.10
2020	19200 C	N	9700	S	9500	9.00	54.50	21.90
2019	21500 C	N	11000	S	10500	9.00	54.10	18.10
2018	23000 C	N	11500	S	11500	9.00	54.20	11.80
2017	22500 C	N	11000	S	11500	9.00	54.50	9.70
2016	20000 C	N	10000	S	10000	9.00	54.30	10.50
2015	19100 C	N	9700	S	9400	9.00	54.50	11.20
2014	17900 C	N	9000	S	8900	9.00	54.50	10.90
2013	17500 C	N	8800	S	8700	9.00	55.10	12.30
2012	16600 C	N	8400	S	8200	9.00	54.60	11.10
2011	17900 C	N	9200	S	8700	9.00	54.70	11.80
2010	18100 C	N	9200	S	8900	9.86	54.07	11.10
2009	18500 C	N	9300	S	9200	9.76	54.11	10.90
2008	19600 C	N	9900	S	9700	9.71	55.26	13.00
2007	21000 C	N	10500	S	10500	9.36	55.25	12.50
2006	23000 C	N	11500	S	11500	9.36	55.56	14.80

AADT FLAGS: C = COMPUTED; E = MANUAL ESTIMATE; F = FIRST YEAR ESTIMATE

S = SECOND YEAR ESTIMATE; T = THIRD YEAR ESTIMATE; R = FOURTH YEAR ESTIMATE

V = FIFTH YEAR ESTIMATE; 6 = SIXTH YEAR ESTIMATE; X = UNKNOWN

\*K FACTOR: STARTING WITH YEAR 2011 IS STANDARDK, PRIOR YEARS ARE K30 VALUES

2021 PEAK SEASON FACTOR CATEGORY REPORT - REPORT TYPE: ALL CATEGORY: 7100 CLAY COUNTYWIDE

CATEG	ORY: 7100 CLAY COUNTYWIDE		150 GT . 0 0 G
WEEK	DATES	SF	MOCF: 0.96 PSCF 
1234567890123456789012345678901233456789012334567890123345678901233456789012334567890123345678901233	01/01/2021 - 01/02/2021 01/03/2021 - 01/09/2021 01/10/2021 - 01/16/2021 01/17/2021 - 01/23/2021 01/24/2021 - 02/06/2021 01/31/2021 - 02/06/2021 02/07/2021 - 02/13/2021 02/14/2021 - 02/20/2021 02/21/2021 - 02/27/2021 02/28/2021 - 03/06/2021 03/07/2021 - 03/13/2021 03/07/2021 - 03/20/2021 03/21/2021 - 03/20/2021 03/21/2021 - 03/20/2021 03/21/2021 - 03/27/2021 03/21/2021 - 03/27/2021 03/21/2021 - 03/27/2021 03/21/2021 - 03/27/2021 03/21/2021 - 03/27/2021 03/21/2021 - 03/27/2021 03/28/2021 - 04/03/2021 04/04/2021 - 04/10/2021 04/11/2021 - 04/17/2021 04/18/2021 - 05/01/2021 05/02/2021 - 05/01/2021 05/09/2021 - 05/08/2021 05/09/2021 - 05/05/2021 05/30/2021 - 05/22/2021 05/33/2021 - 06/05/2021 06/06/2021 - 06/12/2021 06/13/2021 - 06/12/2021 06/20/2021 - 06/12/2021 06/20/2021 - 07/03/2021 06/20/2021 - 07/10/2021 07/11/2021 - 07/10/2021 07/11/2021 - 07/10/2021 07/11/2021 - 07/11/2021 07/18/2021 - 07/31/2021 08/08/2021 - 08/07/2021 08/08/2021 - 08/07/2021 08/08/2021 - 08/07/2021 08/08/2021 - 09/18/2021 09/05/2021 - 09/18/2021 09/19/2021 - 09/25/2021 09/19/2021 - 09/25/2021 10/03/2021 - 10/09/2021 10/10/2021 - 10/09/2021 10/17/2021 - 10/16/2021 11/14/2021 - 10/23/2021 11/14/2021 - 10/23/2021 11/14/2021 - 10/23/2021 11/14/2021 - 10/23/2021 11/14/2021 - 10/23/2021 11/14/2021 - 10/23/2021 11/14/2021 - 10/23/2021 11/14/2021 - 10/23/2021 11/14/2021 - 10/23/2021 11/14/2021 - 11/27/2021 11/21/2021 - 11/23/2021 11/21/2021 - 11/25/2021 11/21/2021 - 11/25/2021 11/21/2021 - 11/25/2021 11/21/2021 - 12/25/2021 12/26/2021 - 12/31/2021	1.00 1.06 1.11 1.11 1.10 1.09 1.09 1.08 1.05 1.02 1.00 0.96 0.96 0.97 0.96 0.996 0.996 0.995 0.995 0.996 0.996 0.997 0.998 0.997 0.998 0.998 0.998 0.998 0.998 0.999 1.002 1.002 1.002 1.002 1.003 1.003 1.003 1.003 1.003 1.004 1.005 1.006 1.006 1.006 1.006 1.006 1.011 1.006 1.011 1.006 1.011 1.006 1.011 1.006 1.011 1.006 1.011 1.006 1.011	1.04 1.10 1.16 1.16 1.15 1.14 1.13 1.09 1.06 1.04 1.01 1.00 1.00 1.00 1.00 1.00 1.00

\* PEAK SEASON

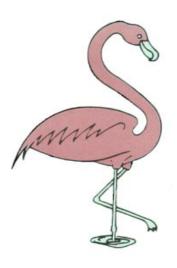
08-MAR-2022 12:36:24

830UPD

2\_7100\_PKSEASON.TXT

## **APPENDIX D**

# CAPACITY CALCULATIONS UNSIGNALIZED INTERSECTIONS

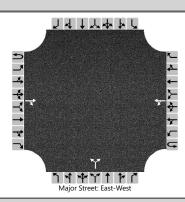


HCS Two-Way	Cton Cont	ral Danart
TC3 IWU-Way	/ Stop-Cont	ioi kepoit

Item # 2.

				110111 # 2.
General Information		Site Information		
Analyst	J. Buckholz	Intersection	Cooks Lane / Site Driveway	
Agency/Co.	BUCKHOLZ TRAFFIC	Jurisdiction	Clay County	
Date Performed	10/30/2023	East/West Street	Cooks Lane	
Analysis Year	2026	North/South Street	Site Driveway	
Time Analyzed	AM Peak Hr. BUILD Traffic	Peak Hour Factor	0.96	
Intersection Orientation	East-West	Analysis Time Period (hrs)	0.25	
Project Description	#22-1805			

#### Lanes



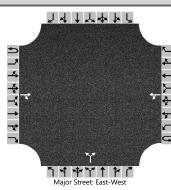
Vehicle Volumes and Adj	ustme	nts														
Approach		Eastb	ound			Westl	oound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	0	1	0		0	1	0		0	0	0
Configuration				TR		LT					LR					
Volume (veh/h)			159	1		22	55			0		8				
Percent Heavy Vehicles (%)						2				2		2				
Proportion Time Blocked																
Percent Grade (%)										(	)					
Right Turn Channelized																
Median Type   Storage				Undi	vided											
Critical and Follow-up He	eadwa	ys														
Base Critical Headway (sec)						4.1				7.1		6.2				
Critical Headway (sec)						4.12				6.42		6.22				
Base Follow-Up Headway (sec)						2.2				3.5		3.3				
Follow-Up Headway (sec)						2.22				3.52		3.32				
Delay, Queue Length, and	d Leve	l of S	ervice													
Flow Rate, v (veh/h)						23					8					
Capacity, c (veh/h)						1411					878					
v/c Ratio						0.02					0.01					
95% Queue Length, Q <sub>95</sub> (veh)						0.0					0.0					
Control Delay (s/veh)						7.6	0.1				9.1					
Level of Service (LOS)					A A			A								
Approach Delay (s/veh)					2.3				9.1							
Approach LOS						,	4			,	4					

HCS Two-Way	Cton Cont	ral Danart
TC3 IWU-Way	/ Stop-Cont	ioi kepoit

Item # 2.

	Cita Life and Cita						
General Information		Site Information					
Analyst	J. Buckholz	Intersection	Cooks Lane / Site Driveway				
Agency/Co.	BUCKHOLZ TRAFFIC	Jurisdiction	Clay County				
Date Performed	10/30/2023	East/West Street	Cooks Lane				
Analysis Year	2026	North/South Street	Site Driveway				
Time Analyzed	PM Peak Hr. BUILD Traffic	Peak Hour Factor	0.92				
Intersection Orientation	East-West	Analysis Time Period (hrs)	0.25				
Project Description	#22-1805						

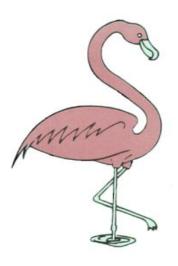
#### Lanes



ustme	nts															
	Eastk	oound			Westl	oound			North	bound			South	bound		
U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R	
1U	1	2	3	4U	4	5	6		7	8	9		10	11	12	
0	0	1	0	0	0	1	0		0	1	0		0	0	0	
			TR		LT					LR						
		113	0		8	178			1		24					
					2				2		2					
									(	)						
			Undi	vided												
adwa	ys															
					4.1				7.1		6.2					
					4.12				6.42		6.22					
					2.2				3.5		3.3					
					2.22				3.52		3.32					
Leve	l of S	ervice														
П					9					27						
					1464					913						
					0.01					0.03						
					0.0					0.1						
					7.5	0.0				9.1						
					А	Α				Α						
				0.4				9.1								
					,	4		A								
	0 1U 0	U L 1U 1 0 0	Eastbound  U L T  1U 1 2  0 0 1  113  2adways	Eastbound  U L T R  1U 1 2 3  0 0 1 0  TR  1113 0  Undi	Eastbound  U L T R U  1U 1 2 3 4U  0 0 1 0 0  TR  113 0  Undivided	Eastbound Westle U L T R U L L 1U 1 2 3 4U 4 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Eastbound    U	Eastbound Westbound  U L T R U L T R  1U 1 2 3 4U 4 5 6  0 0 1 0 0 0 1 0  TR LT    113 0 8 178  Undivided  Cadways  Seadways  Seadways	Eastbound Westbound  U L T R U L T R U  11U 1 2 3 4U 4 5 6  0 0 1 0 0 0 1 0  TR LT    113 0 8 178    Undivided  Undivided  Padways    4.1     4.12     2.2     2.22     3 Level of Service    9     1464     0.01     1464     0.01     0.0     1464     0.01     0.0     17.5   0.0     18     0 4     0 4     0 4     0 4     0 5     0 6     0 7.5   0.0     1 8     0 7.5   0.0     1 8     0 8     0 9     1 8     1 9     1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Eastbound   Westbound   North	Eastbund   Westbund   Northbund	Eastbound   Westbound   Northbound   U	Eastbound   Westbound   Northbound   U	Eastbound   Westbound   Northbound   South	Eastbound   Westbound   Northbound   Southbound	

# **APPENDIX E**

# TRAFFIC SIGNAL TIMINGS



	Location Details		
Signal ID:	45	Date:	November 19, 2022
Major Street:	US 17	Orientation:	N-S
Minor Street:	Cooks Ln-SR 16	Orientation:	E-W

**Controller Timings (seconds)** 

I <del></del>							Olici		9- (								
Movement # (Controller Phase Ø )	Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8	Ø9	Ø10	Ø11	Ø12	Ø13	Ø14	Ø15	Ø16	Notes
Direction	NBLT	SB		WB	SBLT	NB	WBLT	EB									
Turn Type	Prot				Prot		FYA										
Min Green	4	18		6	4	18	4	6									
Ext	3.0	4.0		6.0	4.0	4.0	4.0	3.0									
Yellow	4.9	4.9		4.8	4.9	4.9	4.8	4.8									
All Red	2.0	2.0		2.5	2.0	2.0	2.0	2.5									
Max I	15	50		40	55	35	25	30									
Max II	15	50		40	55	35	25	30									
Walk		7		7		7		7									
Flashing Don't Walk		21		34		26		30									
Detector Memory																	
Det. Switching to:																	
Recall		MIN				MIN											
CNA																	

Coordination Timings (seconds)

				Splits														1			
Pattern	C-S-O	Cycle Length								Sp									Offset	Seq	Coord
rattern	0-0-0	Length	Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8	Ø9	Ø10	Ø11	Ø12	Ø13	Ø14	Ø15	Ø16	Onset	Jeq	Ø
																					i i
																					i i

Offset Reference Point	Phase Mode
End of Green of first through movement	STD8

Notes:
1) Use 'Max I' during FREE Operation.
2) 3 second delay on FYA

Signal ID:	45
Major Street:	US 17
Minor Street:	Cooks Ln-SR 16

#### Day Plans

	Monday	y-Frid	ay			Satu	ırday			Sur	day					
		Plan 1				Day I	Plan 2			Day F	Plan 3			Day F	Plan 4	
Н	r Min	Patt	Cycl		Hr	Min	Patt	Cycl	Hr	Min	Patt	Cycl	Hr	Min	Patt	Cycl
00			Free		00	00		Free	00	00	254	Free				
					-								-			
			•		•											
Ш				1 1	_				 				 ı——			
<u> </u>																
		Plan 5					Plan 6			Day F					Plan 8	
Н		Plan 5 Patt			Hr			Cycl	Hr			Cycl	Hr		Plan 8	
Н					Hr				Hr							
H					Hr				Hr							
H					Hr				Hr							
H					Hr				Hr							
H					Hr				Hr							
H					Hr				Hr							
H					Hr				Hr							
H					Hr				Hr							
H					Hr				Hr							
H					Hr				Hr							
<u>H</u>					Hr				Hr							
H					Hr				Hr							

Patt	Force	Alt Opt	Alt Time	Coord					Α	lt Tim	e Tab	le Max	( Valu	es (S	econd	s)				
Pall	Mode	Table	Table	Max Plan	Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8	Ø9	Ø10	Ø11	Ø12	Ø13	Ø14	Ø15	Ø16

## **APPENDIX F**

# SIGNALIZED INTERSECTION CAPACITY CALCULATIONS



	Item#	2.
AM PEAK HOUR		
	Page 9	90

HCS Signalized Intersection Results Summary    Item # 2.																
Conoral Inform				Intersection Information												
General Inform	nation	DUOLULO ZEDAE	-10									V			4111	4 4
Agency		BUCKHOLZ TRAFF	-IC			1. 0	4 0000		Durat			0.250				
Analyst		J. Buckholz		-		e Jan 2			Area	Туре	e	Other	<u> </u>			<u>-</u>
Jurisdiction		Clay County		Time F			eak Hour PHF					0.96			W+E S	-
Urban Street		US 17		Analys					Analysis Period 1> 6:45							<u> </u>
Intersection		SR 16 / Cooks Lane 2022 AM Peak Hr T		File Na	File Name 2022_AM_US17_SR16_CoveLn.xus								- 1	ጎተተሰ		
Project Descrip												4 T 4 Y	חיד			
Demand Inform	nation				EB		V	/B			NB		SB			
Approach Movement					Т	R	L	<u> </u>		R	L	Т	R	L	Т	R
Demand ( v ), v	eh/h			13	82	0	177	1	6 3	373	1	394	298	707	276	16
Signal Informa	Oins all lafe mostic a					b	ьп	7		щ	<del>,</del>					_
Cycle, s	99.3	Reference Phase	2	1	7	4216	NZV		· 闰	₹ 8	爿	,				<b>→</b>
Offset, s	110	Reference Point	End	ł	15		1	71		₫.,			1	2	3	4
Uncoordinated		Simult. Gap E/W		Green		21.0	22.4	13	3.2 7	<u>7.7                                   </u>	0.0	_ [	Ĺ		_	
Force Mode	Fixed	<u> </u>	Off Off	Yellow	_	4.9	4.9	4.		1.8 2.5	0.0	_ `	<b>Y</b> _		<b>-</b>	<b>-</b> ♦.
Force Mode	rixea	Simult. Gap N/S	Oli	Red	2.0	2.0	2.0	2.	0   2	2.5	0.0		5	б	7	<b>M</b> 8
Timer Results					-	EBT	WB	L	WBT		NBL		NBT	SBI		SBT
Assigned Phase	е					8	7		4		1		6	5		2
Case Number						8.3	1.0		3.0		2.0		3.0	2.0		4.0
Phase Duration	, S					15.0	20.0		35.1	T	7.0		29.3	35.0		57.2
Change Period	, ( Y+R	c ), S				7.3	6.8		7.3		6.9		6.9	6.9		6.9
Max Allow Head	dway ( /	<i>MAH</i> ), s				4.1	4.9		7.1		3.9	4.5		4.9		4.4
Queue Clearan						7.5	12.6	3	15.3		2.1		19.4	22.8		6.9
Green Extensio	n Time	( g e ), s				0.3	0.6		4.1	$\neg$	0.0		2.9	5.2		1.3
Phase Call Prol	bability					1.00	0.99	9	1.00		0.03		1.00	1.00	)	1.00
Max Out Proba	bility					0.00	0.01		0.03		0.00		0.05	0.00	)	0.00
Movement Gro	un Ros	eulte			EB			WI	2			NB			SB	
Approach Move		Juito			T	R	L	T	R	,	1	T	R	L	T	R
Assigned Move				3	8	18	7	4	14	-	1	6	16	5	2	12
Adjusted Flow F		) veh/h			99	10	184	17	_	$\rightarrow$	1	410	248	736	153	151
		ow Rate ( <i>s</i> ), veh/h/li	n		1735		1513	161	$\rightarrow$	$\rightarrow$	1810	1682	1346	1634	1693	1660
Queue Service					2.6	+	10.6	0.7	_	-	0.1	10.7	17.4	20.8	4.9	4.9
Cycle Queue C	•				5.5		10.6	0.7	_	-	0.1	10.7	17.4	20.8	4.9	4.9
Green Ratio ( g		(90),0			0.08	1	0.23	0.2	_	_	0.00	0.23	0.23	0.28	0.51	0.51
Capacity ( c ), v					177		300	453	_		2	758	304	924	858	842
Volume-to-Capa		atio (X)			0.560		0.614	0.03	_	_	0.495	0.541	0.817	0.797	0.178	0.180
		t/ln (95 th percentile	)		116.6		207.6	15.	_	$\overline{}$	4.3	205.2	297.1	347.4	90.1	83.6
		eh/ln ( 95 th percenti			4.6		7.1	0.5	5 7.	5	0.2	7.7	10.2	13.0	3.2	3.2
Queue Storage	Ratio (	RQ) (95 th percent	ile)		0.52		0.44	0.0	0.0	00	0.02	0.00	0.99	0.51	0.00	0.00
Uniform Delay (	( <b>d</b> 1 ), s	/veh			44.8		33.8	26.	1 12	.4	49.7	34.0	36.6	33.1	13.3	13.3
Incremental De	lay ( d 2	), s/veh			2.8		2.9	0.1	1.:	2	118.8	0.9	8.2	2.3	0.1	0.1
Initial Queue De	elay ( d	з), s/veh			0.0		0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (	Control Delay ( d ), s/veh				47.5		36.7	26.	2 13	.6	168.5	34.9	44.8	35.3	13.4	13.4
Level of Service	e (LOS)				D		D	С	В	3	F	С	D	D	В	В
Approach Delay	y, s/veh	/LOS		47.5	5	D	21.7	7	С		38.8		D	28.9	)	С
Intersection De	lay, s/ve	eh / LOS				30	0.8							С		
Multimark	مالد							14/				ND			00	
Multimodal Re		/1.00			EB			WI	5			NB			SB	
Pedestrian LOS																
Bicycle LOS Sc	ole / LC	70														

		нс	S Sigr	nalize	d Inte	ersect	ion R	esul	ts Sun	nmary	•				
General Inform	ation								Intersec	tion Inf	ormatic	n e	T	lte 4 Å₩+	em # 2.
Agency	iation	BUCKHOLZ TRAFI	EIC .						Duration		0.250			4111	
Analyst		J. Buckholz	IC	Analys	ic Dat	0 Oct 30	0, 2023	-	Area Typ		Other Other				₹. &
Jurisdiction		Clay County		Time F			eak Hou	ır	PHF	E	0.96		→ - ◆	wÎe	<u>`</u> _} ← }
Urban Street		US 17				r 2026	eak nou	11	Analysis	Dorind	1> 6:4	16	<u>-</u> ₹		<b>~</b> −
Intersection		SR 16 / Cooks Land		File Na			D AM	11017	SR16 C			+0			
Project Descrip	tion	2026 AM Peak Hr E			ame	2026_	_D_AIVI_	0317	_5K10_C	5	1) <b>1</b> 1	7 4			
Demand Inforn					EB			W			NB			SB	_
Approach Movement					Т	R	L	Т	_	L	Т	R	L	T	R
Demand ( v ), veh/h					129	0	189	36	399	2	422	223	756	295	34
Signal Information					T (	~ <u>211</u>	s U.	7							K
Cycle, s	105.4	Reference Phase	2	1	E	A 542	TEV.	<u>.</u>	7.3	細					7
Offset, s	110	Reference Point	End		1		1 Ti					1	2	3	4
Uncoordinated	Yes	Simult. Gap E/W	Green Yellow		24.1 4.9	18.9 4.9	14 4.8		0.0	— l	L	4-		_	
Force Mode	Fixed	Simult. Gap N/S	Off Off	Red	2.0	2.0	2.0	2.0		0.0		5	6	7	
Timer Results				EBL	-	EBT	WB	L	WBT	NBI	-	NBT	SBL	-	SBT
Assigned Phase	Э					8	7	_	4	1		6	5		2
Case Number						8.3	1.0	-	3.0	2.0		3.0	2.0		4.0
Phase Duration	, s					20.6	20.9	)	41.5	7.1		25.8	38.1		56.8
Change Period,						7.3	6.8		7.3	6.9		6.9	6.9		6.9
Max Allow Head	dway( <i>I</i>	<i>MAH</i> ), s				4.2	4.9		7.1	3.9		4.5	4.9		4.4
Queue Clearan	ce Time	e ( g s ), s				12.8	13.4	1	15.3	2.1		15.9	25.6	<u> </u>	8.5
Green Extensio		( g e ), s				0.5	0.7	$\perp$	4.7	0.0		2.9	5.5		1.5
Phase Call Prol	bability					1.00	1.00		1.00	0.06	5	1.00	1.00		1.00
Max Out Probal	bility					0.00	0.02	2	0.05	0.00	) (	0.01	0.01		0.00
Movement Gro	up Res	sults			EB			WE	3		NB			SB	
Approach Move				L	Т	R	L	Т	R	L	Т	R	L	Т	R
Assigned Move				3	8	18	7	4	14	1	6	16	5	2	12
Adjusted Flow F		), veh/h			172		197	38	374	2	440	186	788	173	170
		ow Rate ( s ), veh/h/l	n		1624		1513	1618	_	1810	1682	1346	1634	1693	1631
Queue Service					7.4		11.4	1.7		0.1	13.0	13.9	23.6	6.3	6.5
Cycle Queue C	learanc	e Time ( <i>g c</i> ), s			10.8		11.4	1.7	13.3	0.1	13.0	13.9	23.6	6.3	6.5
Green Ratio ( g.	/C )				0.13		0.28	0.32	0.62	0.00	0.18	0.18	0.30	0.47	0.47
Capacity ( c ), v	eh/h				247		296	525	930	4	603	241	969	802	772
Volume-to-Capa	acity Ra	itio (X)			0.696	5	0.665	0.07	1 0.402	0.506	0.729	0.772	0.813	0.216	0.219
Back of Queue	( Q ), ft	t/ln ( 95 th percentile	:)		209.3	3	223.8	33.9	194.5	6.2	246.7	250.2	387.5	121.3	111.3
Back of Queue	( Q ), ve	eh/ln ( 95 th percent	ile)		8.2		7.7	1.2	7.3	0.2	9.2	8.6	14.5	4.4	4.3
Queue Storage	Ratio (	RQ) (95 th percen	tile)		0.93		0.47	0.00	0.00	0.03	0.00	0.83	0.57	0.00	0.00
Uniform Delay (	d 1), s	/veh			44.8		32.5	24.7	7 10.1	52.7	40.9	41.3	34.5	16.3	16.3
Incremental De	lay ( <i>d</i> 2	), s/veh			3.5		3.6	0.2	1.0	72.9	2.4	7.3	2.4	0.2	0.2
Initial Queue Delay ( d 3 ), s/veh					0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay ( d ), s/veh					48.3		36.1	24.9	11.1	125.6	43.4	48.6	36.9	16.5	16.5
Level of Service	(LOS)				D		D	С	В	F	D	D	D	В	В
Approach Delay	, s/veh	/ LOS		48.3		D	20.1	1	С	45.2	2	D	30.7		С
Intersection Del	lay, s/ve	h / LOS				32	2.9						С		
Marie - 1 - 5								147			NE			0.5	
Multimodal Re		/1.00			EB			WE	5		NB			SB	
Pedestrian LOS															
Bicycle LOS Sc	ore / LC	J3													

		HCS	S Sigr	nalized	d Inte	rsect	ion R	esu	lts Sun	nmary		_	_	Ite	em # 2.
General Inform	ation								Intersec	tion Inf	ormatic	nn	<i>k</i>	4741	
Agency		BUCKHOLZ TRAF	FIC						Duration		0.250			4171	
Analyst		J. Buckholz	110	Analys	is Date	Oct 30	2023		Area Typ		Other				K.
Jurisdiction		Clay County		Time F			eak Hou	ır	PHF		0.96		→ -	wÎ≡	<u>~</u> }
Urban Street										Doriod		15			<u>_</u>
		US 17				Timing	gs	alanced Analysis Period 1> 6:45						ጎተተሰ	, <u> </u>
Intersection		SR 16 / Cooks Lan		File Na	ame	BAL_	2026_B	_AM_	US17_SF	R16_Co	oksLn.x	us	1	11144	7
Project Descript	ion	2026 AM Peak Hr E	BUILD T	raffic											
Demand Inform	nation				EB			W	В		NB			SB	
Approach Move				L	T	R	L	T		L	T	R	L	T	R
Demand ( v ), ve	36	129	0	189	3	_	2	422	223	756	295	34			
Demand ( v ), ve	30	123		103	3	0   333		722	220	730	230	J 34			
Signal Informa	tion	-			7 "		N.ZI			<u> </u>					4
Cycle, s 192.9 Reference Phase 2					8	ľ	T o	2		ğ		ا الأ			· Y
Offset, s	110	Reference Point	Green	30.0	23.1	50.0	15	.0 40.0	0.0		<b>1</b>	2	3	4	
Uncoordinated	Yes	Simult. Gap E/W	Yellow		4.9	4.9	4.8		0.0		<b>,</b> –	tz.		7	
Force Mode	Fixed	Simult. Gap N/S	Red	2.0	2.0	2.0	2.0		0.0		5	6	7	<b>₹</b> 8	
Timer Results	EBL	.	EBT	WB	L	WBT	NBI	L	NBT	SBI	-	SBT			
Assigned Phase	<del>)</del>					8	7		4	1		6	5		2
Case Number				_	_	8.3	1.0	_	3.0	2.0	_	3.0	2.0	_	4.0
Phase Duration		`		_	_	17.3	21.8	_	69.1	36.9		56.9	66.9		86.9
Change Period, (Y+Rc), s					_	7.3	6.8 4.9		7.3			6.9		_	6.9
Max Allow Head		· · · · · · · · · · · · · · · · · · ·		_		4.2	17.0		7.1 3.9 25.7 2.2				4.9	_	4.4
Queue Clearand		· - /		_	_	19.5 0.5	0.0	_	3.6	0.0	_	25.0 3.1	44.2	_	15.1 1.4
Green Extension Phase Call Prob		( <i>g e )</i> , s		_		1.00	1.00	_	1.00	1.00		1.00	1.00	_	1.00
Max Out Probab					_	0.00	1.00	-	0.29	0.00	_	0.00		_	0.00
Wax Out 1 Tobat	Jilly					7.00	1.00	,	0.29	0.00		0.00	0.13	,	0.00
Movement Gro	up Res	ults			EB			WE	3		NB			SB	
Approach Move	ment			L	Т	R	L	Т	R	L	Т	R	L	Т	R
Assigned Mover	ment			3	8	18	7	4	14	1	6	16	5	2	12
Adjusted Flow F	Rate ( v	), veh/h			172		197	38	374	2	440	186	788	173	170
Adjusted Satura	tion Flo	ow Rate ( s ), veh/h/	ln		1601		1513	161	8 1497	1810	1682	1346	1634	1693	1631
Queue Service	Time ( g	g s ), S			10.4		15.0	3.1	23.7	0.2	21.5	23.0	42.2	12.9	13.1
Cycle Queue Cl	earance	e Time ( <i>g ε</i> ), s			17.5		15.0	3.1	23.7	0.2	21.5	23.0	42.2	12.9	13.1
Green Ratio ( g/	(C)				0.21		0.30	0.32	2 0.63	0.16	0.26	0.26	0.31	0.41	0.41
Capacity ( c ), v	eh/h				355		279	518	945	281	872	349	1016	702	676
Volume-to-Capa	acity Ra	tio (X)			0.485		0.705	0.07	2 0.396	0.007	0.504	0.534	0.775	0.247	0.251
	· · /·	t/ln ( 95 th percentile	,		314.3		184.5	67	350	4	380.3	369.9	672.5	260.1	239.5
		eh/In ( 95 th percent			12.3		6.3	2.3		0.2	14.2	12.7	25.1	9.4	9.2
		RQ) (95 th percen	tile)		1.40		0.39	0.00		0.02	0.00	1.23	1.00	0.00	0.00
Uniform Delay (				$\perp$	67.2		60.9	45.6		68.9	60.9	61.4	60.3	36.8	36.9
Incremental Del		,			1.0		8.6	0.2		0.0	0.7	2.1	4.0	0.3	0.3
Initial Queue Delay ( d 3 ), s/veh					0.0		0.0	0.0	_	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay ( d ), s/veh					68.2		69.5	45.8	_	68.9	61.5	63.5	64.4	37.1	37.1
Level of Service		/ 1 00		- 00	E	_	E	D	B	E	E	E	E	D	_ D
Approach Delay				68.2		E	36.7	<b>/</b>	D	62.2	2	Е	56.1		<u>E</u>
Intersection Delay, s/veh / LOS 53.8 D													ט		
			EB			WE	3		NB			SB			
Multimodal Res	Pedestrian LOS Score / LOS														
		/ LOS													
	Score														

	Item #	2.
· · · · · · · · · · · · · · · · · · ·		
PM PEAK HOUR		

Page 94

HCS Signalized Intersection Results Summary															
General Information Intersection Information													em # 2.		
	nation	DUOLULO ZEDAE	-10								V			4111	4 4
Agency		BUCKHOLZ TRAFF	-IC			1			Duratio		0.250				<u>-</u>
Analyst		J. Buckholz		<u> </u>		Jan 2			Area T	/ре	Othe	r			<b>-</b>
Jurisdiction		Clay County		Time F			eak Hou	ır	PHF		0.92		4	W+E S	<b>←</b>
Urban Street		US 17		Analys						s Period		5:30	<u> </u>		T.
Intersection		SR 16 / Cooks Lane 2022 PM Peak Hr T		File Na	File Name 2022_PM_US17_SR16_CoveLn.xus									<u> ጎተተሰ</u>	
Project Descrip											4 1 4 7	th ri			
Demand Inform	nation			EB					/B		NB				
Approach Move	ement			L	Т	R	L	Τ-	T R	L	Т	R	L T		R
	Demand ( v ), veh/h					2	204	8	34 88	0 3	537	166	513	430	17
0:							h II		سيس	سيس					
Signal Informa		D ( D)		-	7		직원		¥.,ª	$\succeq$					$\rightarrow$
Cycle, s	105.8	Reference Phase	2	-	5	ľ	T 1	7	ľ			1 -	2	3	4
Offset, s	110	Reference Point	End	Green		14.9	22.6	13	3.7   19	.5 0.0		Ĺ			
Uncoordinated		Simult. Gap E/W	Off	Yellow 4.9 4.9			4.9	4.				<b>&gt;</b>	P	<b>-</b>	<b>~</b>
Force Mode	Fixed	Simult. Gap N/S	Off	Red	2.0	2.0	2.0	2.	0 2.	5 0.0	)	5	6	7	8
Timer Results				EBL	_	EBT	WB	L	WBT	NI	3L	NBT	SBI		SBT
Assigned Phase	e					8	7	$\neg$	4	1		6	5		2
Case Number						8.3	1.0		3.0	2.	0	3.0	2.0		4.0
Phase Duration	. S				$\neg$	26.8	20.5	5	47.3	7.	3	29.5	29.1		51.3
Change Period,		c ), S				7.3	6.8	-	7.3	6.		6.9	6.9	_	6.9
Max Allow Head		<u> </u>				6.0	4.9		7.1	3.	9	4.4	4.9		4.4
Queue Clearan						9.4	12.9	_	42.0	2.		19.3	18.4	1	11.6
Green Extensio					$\neg$	0.4	0.8	$\neg$	0.0	0.	0	3.2	3.8		2.2
Phase Call Prob		( <b>0</b> ),				1.00	1.00		1.00	0.0	9	1.00	1.00	)	1.00
Max Out Probal						0.00	0.02	2	1.00	0.0	00	0.05	0.00	)	0.00
Movement Gro	un Bas	vulte.			EB			WI	D.		NB			SB	
Approach Move		buits		-	T	R	L	T	R	-	T	R	L	T	R
Assigned Move				3	8	18	7	4	14	1	6	16	5	2	12
Adjusted Flow F		, ) , vob/b		3	75	10	222	91	_	3	584	145	558	244	242
		ow Rate ( s ), veh/h/li	n		831		1654	175	_	<del>-</del>		1510	1702	1811	1786
Queue Service			11		6.0		10.9	3.6	_		17.3	8.8	16.4	9.6	9.6
Cycle Queue C	•			-	7.4		10.9	3.6	_	_	17.3	8.8	16.4	9.6	9.6
Green Ratio ( g		e fille ( <i>g c )</i> , s			0.18		0.33	0.3	_		0.21	0.21	0.21	0.42	0.42
Capacity ( c ), v					207		427	662	_		723	322	713	759	749
Volume-to-Capa		atio (X)			0.363		0.519	0.13	_			0.449	0.782	0.322	0.323
		t/In ( 95 th percentile	)		88		208.5	72	_		309.6		292	189.3	186
		eh/ln (95 th percenti			3.2		7.7	2.7	_		11.6	5.8	11.3	7.2	7.2
		RQ) (95 th percent			0.39		0.44	0.0	_	_		0.52	0.43	0.00	0.00
Uniform Delay (					37.8		27.8	21.	6 21.0	52.7	39.6	36.2	39.6	20.6	20.6
Incremental De	, ,				1.1	İ	1.4	0.3	_		3.4	1.4	2.7	0.3	0.4
Initial Queue De		*			0.0		0.0	0.0	_	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (		•			38.8		29.1	22.	_			37.6	42.3	21.0	21.0
Level of Service					D		С	С	_	F	D	D	D	С	С
Approach Delay				38.8		D	40.0		D	42		D	32.4		С
Intersection Del							7.9						D		
Multimodal Re		/			EB			WI	В	-	NB			SB	
Pedestrian LOS								_							
Bicycle LOS Sc	ore / LC	JS													

Osmani I I if														Ite	em # 2.
General Information	on								Intersect	tion Info	ormatic	on	2	41.	
Agency		UCKHOLZ TRAFF	ic.					$\rightarrow$	Duration,		0.250			4177	
Analyst		Buckholz		Analys	is Date	Oct 30	2023		Area Typ		Other				e. A
Jurisdiction	-	lay County		Time F			eak Hou	_	PHF		0.92		→ <b>∻</b> – <b>‡</b>	w∱e	<b>V</b> _ } <b>←</b> ∲
Urban Street		S 17					cak Hou			Period	1> 16	.30	<b>-</b> ₹		<b>~</b> _ ←
Intersection	-	R 16 / Cooks Lane	,	Analysis Year 2026 Analysis Period 1> 16:30  File Name 2026_B_PM_US17_SR16_CooksLn.xus										,	
Project Description	$\rightarrow$	026 PM Peak Hr B											4 1 44 47	7	
1 Toject Description	20	0201 WIT CANTII D	OILD I	Tanic											
Demand Information	on			EB				WE	3	T	NB		T	SB	
Approach Movemer	nt			L	Т	R	L	Т	R	L	Т	R	L	Т	R
Demand ( v ), veh/h	า			68	61	3	218	138	3 942	3	575	178	549	460	43
								"						<u> </u>	
Signal Information					7	~ 215		] "							4
Cycle, s 116	6.6 F	Reference Phase 2			15	ľ	T to	2		ķ		<b>)</b>	2	2	
Offset, s 11	10 F	Reference Point	End	Green	0.4	18.1	25.7	15.	6 22.1	0.0		<b>+</b>		3	
Uncoordinated Ye	es S	Simult. Gap E/W Off		Yellow		4.9	4.9	4.8	4.8	0.0		<b>_</b> _	₽.		
Force Mode Fix	ced S	Simult. Gap N/S	Off	Red	2.0	2.0	2.0	2.0	2.5	0.0		5	6	7	8
Timer Results				EBL	-	EBT	WB	L	WBT	NBI	-	NBT	SBL		SBT
Assigned Phase					_	8	7	_	4	1	_	6	5	-	2
Case Number						8.3	1.0	_	3.0	2.0		3.0	2.0		4.0
Phase Duration, s						29.4	22.4	1	51.8	7.3		32.6	32.3	3	57.5
Change Period, (Y						7.3	6.8		7.3 6.9		6.9		6.9		6.9
Max Allow Headway	• •					6.1	4.9		7.1	3.9		4.4			4.4
Queue Clearance T		- ,				21.6	14.9	_	46.4 2.2			22.5	21.4	<u> </u>	14.0
Green Extension Tir	me ( g	g e ), s				0.5	0.8		0.0	0.0		3.2	4.0		2.5
Phase Call Probabil	ility					1.00	1.00	)	1.00	0.10	)	1.00	1.00	)	1.00
Max Out Probability	/				_	0.34	0.07	7	1.00	0.00		0.15	0.00		0.00
Movement Group I	Resul	lts			EB			WB			NB			SB	
Approach Movemer	nt			L	Т	R	L	Т	R	L	Т	R	L	Т	R
Assigned Movemen	nt			3	8	18	7	4	14	1	6	16	5	2	12
Adjusted Flow Rate	e ( v ),	veh/h			143		237	150	922	3	625	154	597	277	270
Adjusted Saturation	า Flow	Rate ( s ), veh/h/li	n		826		1654	1752	1510	1810	1696	1510	1702	1811	1756
Queue Service Time	e ( <i>g</i> s	; ), s			17.7		12.9	6.7	44.4	0.2	20.5	10.3	19.4	11.9	12.0
Cycle Queue Cleara	ance	Fime ( $g c$ ), s			19.6		12.9	6.7	44.4	0.2	20.5	10.3	19.4	11.9	12.0
Green Ratio ( g/C )					0.19		0.34	0.38	0.60	0.00	0.22	0.22	0.22	0.43	0.43
Capacity ( c ), veh/h	h				203		309	668	904	6	746	332	741	786	762
Volume-to-Capacity	/ Ratio	o ( X )			0.707		0.768	0.225	1.020	0.525	0.837	0.465	0.806	0.352	0.354
Back of Queue ( Q )	), ft/Ir	n ( 95 th percentile	)		214.1		252.8	136.7	7 1052. 2	8.5	365.6	184.7	337.6	228.9	223.1
Back of Queue ( Q )	), veh	/In ( 95 th percentil	le)		7.8		9.3	5.1	39.6	0.3	13.7	6.9	13.1	8.7	8.6
Queue Storage Rat	tio(R	Q) (95 th percent	ile)		0.95		0.53	0.00	0.00	0.04	0.00	0.62	0.50	0.00	0.00
Uniform Delay ( d 1	), s/ve	eh			45.3		32.0	24.4	23.4	57.9	43.4	39.5	43.2	22.0	22.0
Incremental Delay (	( <b>d</b> 2 ),	s/veh			6.5		6.5	0.6	35.0	55.0	5.4	1.4	3.0	0.4	0.4
Initial Queue Delay ( d 3 ), s/veh				0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Control Delay ( d ), s/veh					51.8		38.5	25.0	58.3	112.9	48.8	40.9	46.2	22.4	22.4
Level of Service (LOS)					D		D	С	F	F	D	D	D	С	С
Approach Delay, s/v		51.8		D	50.9		D	47.5	5	D	34.8	3	С		
Intersection Delay,			44	1.7						D					
Multimodal Result	ts				EB			WB			NB			SB	
aitiiiiodai Nesult						1/10			140						
Pedestrian I OS So	ore / I	OS													
Pedestrian LOS Score															

		HCS	3 Sigr	nalize	lntei	rsect	ion R	esu	lts Sum	nmary				Ite	em # 2.
General Inform	nation								Intersec	tion Inf	ormatic	n	k	1 4 J. 44 + .	ρ. 'A
Agency		BUCKHOLZ TRAFF	FIC						Duration,		0.250			4177	
Analyst		J. Buckholz		Analys	is Date	Oct 30	0 2023		Area Typ		Other		_3 _2,		k J
Jurisdiction		Clay County		Time F			eak Hou	ır	PHF 0.92				→ ♦- <b>∻</b>	w∱E	<u>~</u> ←
Urban Street		US 17			sis Year					Period	1> 16	.30	-\$ -\$		<u>,                                    </u>
					Timing	gs							ጎ t t t t	,	
Intersection		SR 16 / Cooks Land		File Na	ame	BAL_2	2026_B	_PM_	_US17_SF	R16_Co	oksLn.x	us		14144	7 4
Project Descrip	tion	2026 PM Peak Hr E	3UILD T	raffic											
Demand Infor	mation				EB			W	/R		NB			SB	
				L	T	T D	-			-	T	R	-	T	T D
Approach Movement  Demand ( v ), veh/h					-	R	L 240		_	L			L 540		R
Demand ( v ), verim					61	3	218	13	942	3	575	178	549	460	43
Signal Informa		7 6			T							<b>A</b>			
Cycle, s 139.9 Reference Phase 2				]		P	₽ n	al		è	^	\	ŀ		· Y
Offset, s	110	Reference Point	End	Green	20.0	6.1	33.0	14	.0 32.0	0.0		1 1 1	2	3	4
Uncoordinated	Yes	Simult. Gap E/W	Off	Yellow		4.9	4.9	4.8		0.0	—	<b>_</b>	1×		7
Force Mode	Fixed	Simult. Gap N/S	Off	Red	2.0	2.0	2.0	2.0		0.0		5	6	7	<b>→</b> :
				II.								<u> </u>		<u> </u>	
Timer Results				EBL	. [	EBT	WB	L	WBT	NBI		NBT	SBI		SBT
Assigned Phas	е					8	7		4	1		6	5		2
Case Number						8.3	1.0	$\Box$	3.0	2.0		3.0	2.0		4.0
Phase Duration	ı, s				3	39.3	20.8	3	60.1	26.9	)	39.9	39.9	9	52.9
Change Period	, ( Y+R	c ), S		7		7.3	6.8		7.3	6.9		6.9			6.9
Max Allow Hea	dway ( /	<i>МАН</i> ), s				6.1	4.9		7.1	3.9		4.4			4.4
Queue Clearan	ce Time	( g s ), S			2	24.8	16.0		54.8	54.8 2.2		26.1		7	19.1
Green Extension						0.5	0.0	$\neg$	0.0	0.0		2.2	2.3	$\neg$	2.4
Phase Call Pro		(5 ),			1	1.00	1.00		1.00	1.00		1.00	1.00	)	1.00
Max Out Proba				0.60		).60	1.00	)	1.00	0.00	)	0.56	0.43	3	0.00
Movement Gro		ults			EB			WE	_		NB			SB	
Approach Move	ement			L	T	R	L	Т	R	L	T	R	L	Т	R
Assigned Move				3	8	18	7	4	14	1	6	16	5	2	12
Adjusted Flow	Rate( <i>v</i>	) veh/h			143		237	150	922	3	625	154	597	277	270
Adjusted Satura	ation Flo	Adjusted Flow Rate ( v ), veh/h													
Adjusted Saturation Flow Rate ( s ), veh/h/ln					800		1654	175	2 1510	1810	1696	1359	1702	1811	1756
Queue Service		ow Rate ( s ), veh/h/l	ln		20.9			175 8.2		0.2	1696 24.1	1359 13.7	1702 22.7	1811 16.9	1756 17.1
Queue Service Cycle Queue C	Time ( g	ow Rate ( s ), veh/h/lg s ), s	ln				1654		52.8					_	
	Time ( <u>c</u> learance	ow Rate ( s ), veh/h/lg s ), s	In		20.9		1654 14.0	8.2	52.8 52.8	0.2	24.1	13.7	22.7	16.9	17.1
Cycle Queue C Green Ratio ( c Capacity ( c ), v	Time(g learanco I/C) /eh/h	ow Rate ( s ), veh/h/l g s ), s e Time ( g c ), s	ln		20.9		1654 14.0 14.0	8.2 8.2	52.8 52.8 8 0.61	0.2	24.1 24.1	13.7 13.7	22.7 22.7	16.9 16.9	17.1 17.1
Cycle Queue C Green Ratio ( g	Time(g learanco I/C) /eh/h	ow Rate ( s ), veh/h/l g s ), s e Time ( g c ), s	In		20.9 22.8 0.23		1654 14.0 14.0 0.34	8.2 8.2 0.38	52.8 52.8 8 0.61 1 926	0.2 0.2 0.14	24.1 24.1 0.24	13.7 13.7 0.24	22.7 22.7 0.24	16.9 16.9 0.33	17.1 17.1 0.33
Cycle Queue C Green Ratio ( g Capacity ( c ), v Volume-to-Cap	Time(g learance l/C) /eh/h acity Ra	ow Rate ( s ), veh/h/l g s ), s e Time ( g c ), s			20.9 22.8 0.23 222		1654 14.0 14.0 0.34 298	8.2 8.2 0.38 661	52.8 52.8 8 0.61 1 926 27 0.996	0.2 0.2 0.14 259	24.1 24.1 0.24 800	13.7 13.7 0.24 320	22.7 22.7 0.24 803	16.9 16.9 0.33 595	17.1 17.1 0.33 578 0.467
Cycle Queue C Green Ratio ( g Capacity ( c ), v Volume-to-Cap Back of Queue	Time ( g learance l/C ) yeh/h acity Ra ( Q ), ft	ow Rate ( s ), veh/h/lg s ), s e Time ( g c ), s utio ( X )	e)		20.9 22.8 0.23 222 0.647		1654 14.0 14.0 0.34 298 0.794	8.2 8.2 0.38 661 0.22	52.8 52.8 8 0.61 1 926 27 0.996 0 1173	0.2 0.2 0.14 259 0.013	24.1 24.1 0.24 800 0.781	13.7 13.7 0.24 320 0.482	22.7 22.7 0.24 803 0.743	16.9 16.9 0.33 595 0.465	17.1 17.1 0.33 578 0.467
Cycle Queue C Green Ratio ( c Capacity ( c ), v Volume-to-Cap Back of Queue Back of Queue	Time ( glearance //C ) /eh/h acity Ra ( Q ), ft ( Q ), ve	pw Rate ( s ), veh/h/lg s ), s e Time ( g c ), s atio ( X ) t/ln ( 95 th percentile	e) ile)		20.9 22.8 0.23 222 0.647 240		1654 14.0 14.0 0.34 298 0.794 317.7	8.2 8.2 0.38 661 0.22 170	52.8 52.8 8 0.61 1 926 7 0.996 0 1173 3 44.1	0.2 0.2 0.14 259 0.013 4.4	24.1 24.1 0.24 800 0.781 423.7	13.7 13.7 0.24 320 0.482 219.3	22.7 22.7 0.24 803 0.743 393.9	16.9 16.9 0.33 595 0.465 318.8	17.1 17.1 0.33 578 0.467 310.5
Cycle Queue C Green Ratio ( c Capacity ( c ), v Volume-to-Cap Back of Queue Back of Queue	Time ( glearance 1/C ) yeh/h acity Ra ( Q ), ft ( Q ), vere	ow Rate (s), veh/h/lgs), s e Time (gc), s etio (X) t/ln (95 th percentile eh/ln (95 th percentile	e) ile)		20.9 22.8 0.23 222 0.647 240 8.8		1654 14.0 14.0 0.34 298 0.794 317.7	8.2 0.38 661 0.22 170 6.3	52.8 52.8 8 0.61 1 926 07 0.996 0 1173 3 44.1 0 0.00	0.2 0.2 0.14 259 0.013 4.4 0.2	24.1 24.1 0.24 800 0.781 423.7 15.9	13.7 13.7 0.24 320 0.482 219.3 8.2	22.7 22.7 0.24 803 0.743 393.9 15.3	16.9 16.9 0.33 595 0.465 318.8 12.2	17.1 17.1 0.33 578 0.467 310.5 11.9
Cycle Queue C Green Ratio (g Capacity (c), v Volume-to-Cap Back of Queue Back of Queue Queue Storage	Time ( glearance //C ) yeh/h acity Ra ( Q ), ft ( Q ), ve Ratio ( ( d 1 ), s,	ow Rate (s), veh/h/lgs), s e Time (gc), s  atio (X)  t/ln (95 th percentile eh/ln (95 th percentile	e) ile)		20.9 22.8 0.23 222 0.647 240 8.8 1.07		1654 14.0 14.0 0.34 298 0.794 317.7 11.7	8.2 8.2 0.36 661 0.22 170 6.3 0.00	52.8 52.8 8 0.61 1 926 27 0.996 0 1173 3 44.1 0 0.00 7 26.9	0.2 0.2 0.14 259 0.013 4.4 0.2	24.1 24.1 0.24 800 0.781 423.7 15.9 0.00	13.7 13.7 0.24 320 0.482 219.3 8.2 0.73	22.7 22.7 0.24 803 0.743 393.9 15.3 0.58	16.9 16.9 0.33 595 0.465 318.8 12.2 0.00	17.1 17.1 0.33 578 0.467 310.5 11.9
Cycle Queue C Green Ratio ( c Capacity ( c ), V Volume-to-Cap Back of Queue Back of Queue Queue Storage Uniform Delay	Time ( glearance //C ) //eh/h acity Ra ( Q ), ft ( Q ), ve Ratio ( ( d 1 ), solary ( d 2	bw Rate ( s ), veh/h/lg s ), s e Time ( g c ), s  atio ( X )  t/ln ( 95 th percentile eh/ln ( 95 th percentile RQ ) ( 95 th percentile /veh ), s/veh	e) ile)		20.9 22.8 0.23 222 0.647 240 8.8 1.07 49.4		1654 14.0 14.0 0.34 298 0.794 317.7 11.7 0.67 39.8	8.2 8.2 0.38 661 0.22 170 6.3 0.00 29.3	52.8 52.8 8 0.61 1 926 7 0.996 0 1173 3 44.1 0 0.00 7 26.9 6 28.5	0.2 0.14 259 0.013 4.4 0.2 0.02 51.5	24.1 24.1 0.24 800 0.781 423.7 15.9 0.00 50.1	13.7 13.7 0.24 320 0.482 219.3 8.2 0.73 46.1	22.7 22.7 0.24 803 0.743 393.9 15.3 0.58 49.5	16.9 16.9 0.33 595 0.465 318.8 12.2 0.00 37.2	17.1 17.1 0.33 578 0.467 310.5 11.9 0.00 37.2
Cycle Queue C Green Ratio (g Capacity (c), V Volume-to-Cap Back of Queue Back of Queue Queue Storage Uniform Delay Incremental De	Time ( glearance t/C )  yeh/h acity Ra (Q), ft (Q), ve Ratio ( (d1), so lay (d2)	www.Rate (s), veh/h/lgs), s e Time (gc), s  etio (X)  t/ln (95 th percentile eh/ln (95 th percentile RQ) (95 th percentile //veh ), s/veh 3), s/veh	e) ile)		20.9 22.8 0.23 222 0.647 240 8.8 1.07 49.4 6.4		1654 14.0 14.0 0.34 298 0.794 317.7 11.7 0.67 39.8 14.4	8.2 8.2 0.38 661 0.22 170 6.3 0.00 29.1	52.8 52.8 8 0.61 1 926 7 0.996 0 1173 3 44.1 0 0.00 7 26.9 6 28.5 0 0.0	0.2 0.14 259 0.013 4.4 0.2 0.02 51.5 0.0	24.1 24.1 0.24 800 0.781 423.7 15.9 0.00 50.1 5.3	13.7 13.7 0.24 320 0.482 219.3 8.2 0.73 46.1 1.6	22.7 22.7 0.24 803 0.743 393.9 15.3 0.58 49.5 4.0	16.9 16.9 0.33 595 0.465 318.8 12.2 0.00 37.2 0.8	17.1 17.1 0.33 578 0.467 310.5 11.9 0.00 37.2 0.8
Cycle Queue C Green Ratio (g Capacity (c), V Volume-to-Cap Back of Queue Back of Queue Queue Storage Uniform Delay Incremental De Initial Queue D	Time (glearance) //C) /eh/h acity Ra (Q), ft (Q), ve Ratio ( (d1), so lay (d2) elay (d4), s/ve	bw Rate (s), veh/h/lgs), s e Time (gc), s etio (X) t/ln (95 th percentile eh/ln (95 th percentile eh/ln (95 th percentile h/veh ), s/veh eh	e) ile)		20.9 22.8 0.23 222 0.647 240 8.8 1.07 49.4 6.4		1654 14.0 14.0 0.34 298 0.794 317.7 11.7 0.67 39.8 14.4 0.0	8.2 8.2 0.38 661 0.22 170 6.3 0.00 29.1 0.6	52.8 52.8 8 0.61 1 926 7 0.996 0 1173 3 44.1 0 0.00 7 26.9 6 28.5 0 0.0	0.2 0.14 259 0.013 4.4 0.2 0.02 51.5 0.0	24.1 24.1 0.24 800 0.781 423.7 15.9 0.00 50.1 5.3 0.0	13.7 13.7 0.24 320 0.482 219.3 8.2 0.73 46.1 1.6 0.0	22.7 22.7 0.24 803 0.743 393.9 15.3 0.58 49.5 4.0	16.9 16.9 0.33 595 0.465 318.8 12.2 0.00 37.2 0.8 0.0	17.1 17.1 0.33 578 0.467 310.5 11.9 0.00 37.2 0.8
Cycle Queue Control Delay (Level of Service Queue Control Delay Control Contro	Time ( glearance //C ) /eh/h acity Ra ( Q ), ft ( Q ), ve Ratio ( ( d 1 ), se lay ( d 2 elay ( d d ), s/ve e (LOS)	www.Rate (s), veh/h/lgs), s e Time (gc), s  utio (X)  t/ln (95 th percentile eh/ln (95 th percentile eh/ln (95 th percentile //veh ), s/veh 3), s/veh eh	e) ile)	55.8	20.9 22.8 0.23 222 0.647 240 8.8 1.07 49.4 6.4 0.0 55.8 E	E	1654 14.0 14.0 0.34 298 0.794 317.7 11.7 0.67 39.8 14.4 0.0 54.1	8.2 8.2 0.38 661 0.22 170 6.3 0.00 29.3 0.6 0.0 30.3	52.8 52.8 8 0.61 1 926 7 0.996 0 1173 3 44.1 0 0.00 7 26.9 6 28.5 0 0.0 3 55.4	0.2 0.14 259 0.013 4.4 0.2 0.02 51.5 0.0 51.5	24.1 24.1 0.24 800 0.781 423.7 15.9 0.00 50.1 5.3 0.0 55.4 E	13.7 13.7 0.24 320 0.482 219.3 8.2 0.73 46.1 1.6 0.0 47.7	22.7 22.7 0.24 803 0.743 393.9 15.3 0.58 49.5 4.0 0.0 53.6	16.9 16.9 0.33 595 0.465 318.8 12.2 0.00 37.2 0.8 0.0 38.0 D	17.1 17.1 0.33 578 0.467 310.5 11.9 0.00 37.2 0.8 0.0 38.1
Cycle Queue C Green Ratio (g Capacity (c), V Volume-to-Cap Back of Queue Back of Queue Queue Storage Uniform Delay Incremental De Initial Queue D Control Delay (	Time ( glearance //C )  //eh/h acity Ra ( Q ), ft ( Q ), ve Ratio ( ( d 1 ), s, lay ( d 2 elay ( d d ), s/ve e (LOS) y, s/veh	www. Rate (s), veh/h/lgs), s e Time (gc), s  titio (X)  t/ln (95 th percentile eh/ln (95 th percentile eh/ln (95 th percentile ), s/veh s), s/veh eh  / LOS	e) ile)	55.8	20.9 22.8 0.23 222 0.647 240 8.8 1.07 49.4 6.4 0.0 55.8 E		1654 14.0 14.0 0.34 298 0.794 317.7 11.7 0.67 39.8 14.4 0.0 54.1	8.2 8.2 0.38 661 0.22 170 6.3 0.00 29.3 0.6 0.0 30.3	52.8 9. 52.8 9. 0.61 1. 926 1. 0.996 1. 1173 1. 44.1 1. 0.00 1. 26.9 1. 28.5 1. 0.0 1. 0.	0.2 0.2 0.14 259 0.013 4.4 0.2 0.02 51.5 0.0 0.0 51.5	24.1 24.1 0.24 800 0.781 423.7 15.9 0.00 50.1 5.3 0.0 55.4 E	13.7 13.7 0.24 320 0.482 219.3 8.2 0.73 46.1 1.6 0.0 47.7 D	22.7 22.7 0.24 803 0.743 393.9 15.3 0.58 49.5 4.0 0.0 53.6	16.9 16.9 0.33 595 0.465 318.8 12.2 0.00 37.2 0.8 0.0 38.0 D	17.1 17.1 0.33 578 0.467 310.5 11.9 0.00 37.2 0.8 0.0 38.1
Cycle Queue Control Delay (Level of Service Approach Delay Intersection Delay Cycle Queue Description of the Control Delay (Level of Service Approach Delay Intersection Delay (Level of Delay	Time (glearance) //C ) /eh/h acity Ra (Q), ft (Q), ve Ratio ((d1), si lay (d2) elay (dd), s/ve e (LOS) y, s/veh lay, s/ve	www. Rate (s), veh/h/lgs), s e Time (gc), s  titio (X)  t/ln (95 th percentile eh/ln (95 th percentile eh/ln (95 th percentile ), s/veh s), s/veh eh  / LOS	e) ile)	55.8	20.9 22.8 0.23 222 0.647 240 8.8 1.07 49.4 6.4 0.0 55.8		1654 14.0 14.0 0.34 298 0.794 317.7 11.7 0.67 39.8 14.4 0.0 54.1 D	8.2 8.2 0.38 661 0.22 170 6.3 0.00 29.1 0.6 0.00 30.3 C	2. 52.8 2. 52.8 8. 0.61 1. 926 27 0.996 0. 1173 3. 44.1 0. 0.00 7 26.9 5 28.5 0. 0.0 3 55.4 E	0.2 0.2 0.14 259 0.013 4.4 0.2 0.02 51.5 0.0 0.0 51.5	24.1 24.1 0.24 800 0.781 423.7 15.9 0.00 50.1 5.3 0.0 55.4 E	13.7 13.7 0.24 320 0.482 219.3 8.2 0.73 46.1 1.6 0.0 47.7 D	22.7 22.7 0.24 803 0.743 393.9 15.3 0.58 49.5 4.0 0.0 53.6 D	16.9 16.9 0.33 595 0.465 318.8 12.2 0.00 37.2 0.8 0.0 38.0 D	17.1 17.1 0.33 578 0.467 310.5 11.9 0.00 37.2 0.8 0.0 38.1
Cycle Queue Control Delay (Control Delay (Develor Delay Intersection Delay Multimodal Residue)	Time ( glearance //C ) /eh/h acity Ra ( Q ), ft ( Q ), ve Ratio ( ( d 1 ), s, lay ( d 2 elay ( d d ), s/ve e (LOS) y, s/veh lay, s/ve	www. Rate (s), veh/h/lgs), s e Time (gc), s  atio (X)  t/ln (95 th percentile eh/ln (95 th percentile eh/ln (95 th percentile ), s/veh 3), s/veh eh  / LOS eh / LOS	e) ile)	55.8	20.9 22.8 0.23 222 0.647 240 8.8 1.07 49.4 6.4 0.0 55.8 E		1654 14.0 14.0 0.34 298 0.794 317.7 11.7 0.67 39.8 14.4 0.0 54.1 D	8.2 8.2 0.38 661 0.22 170 6.3 0.00 29.3 0.6 0.0 30.3	2. 52.8 2. 52.8 8. 0.61 1. 926 27 0.996 0. 1173 3. 44.1 0. 0.00 7 26.9 5 28.5 0. 0.0 3 55.4 E	0.2 0.2 0.14 259 0.013 4.4 0.2 0.02 51.5 0.0 0.0 51.5	24.1 24.1 0.24 800 0.781 423.7 15.9 0.00 50.1 5.3 0.0 55.4 E	13.7 13.7 0.24 320 0.482 219.3 8.2 0.73 46.1 1.6 0.0 47.7 D	22.7 22.7 0.24 803 0.743 393.9 15.3 0.58 49.5 4.0 0.0 53.6 D	16.9 16.9 0.33 595 0.465 318.8 12.2 0.00 37.2 0.8 0.0 38.0	17.1 17.1 0.33 578 0.467 310.5 11.9 0.00 37.2 0.8 0.0 38.1
Cycle Queue Control Delay (Level of Service Approach Delay Intersection Delay Cycle Queue Description of the Control Delay (Level of Service Approach Delay Intersection Delay (Level of Delay	Time (glearance //C) /eh/h acity Ra (Q), ft (Q), ve Ratio ( (d1), s/ve elay (d2) elay (d3), s/ve elay, s/veh lay, s/ve sults S Score	www. Rate (s), veh/h/lgs), s e Time (gc), s  etio (X)  t/In (95 th percentile eh/In (95 th percentile eh/In (95 th percentile eh/In (95 th percentile xQ) (95 th percentile yveh y), s/veh eh LOS eh / LOS	e) ile)	55.8	20.9 22.8 0.23 222 0.647 240 8.8 1.07 49.4 6.4 0.0 55.8		1654 14.0 14.0 0.34 298 0.794 317.7 11.7 0.67 39.8 14.4 0.0 54.1 D	8.2 8.2 0.38 661 0.22 170 6.3 0.00 29.1 0.6 0.00 30.3 C	2. 52.8 2. 52.8 8. 0.61 1. 926 27 0.996 0. 1173 3. 44.1 0. 0.00 7 26.9 5 28.5 0. 0.0 3 55.4 E	0.2 0.2 0.14 259 0.013 4.4 0.2 0.02 51.5 0.0 0.0 51.5	24.1 24.1 0.24 800 0.781 423.7 15.9 0.00 50.1 5.3 0.0 55.4 E	13.7 13.7 0.24 320 0.482 219.3 8.2 0.73 46.1 1.6 0.0 47.7 D	22.7 22.7 0.24 803 0.743 393.9 15.3 0.58 49.5 4.0 0.0 53.6 D	16.9 16.9 0.33 595 0.465 318.8 12.2 0.00 37.2 0.8 0.0 38.0 D	17.1 17.1 0.33 578 0.467 310.5 11.9 0.00 37.2 0.8 0.0 38.1



## **STAFF REPORT**

### CITY OF GREEN COVE SPRINGS, FLORIDA

TO: Planning and Zoning Commission MEETING DATE: January 23, 2024

**FROM:** Michael Daniels, AICP, Development Services Director

**SUBJECT:** Large Scale Future Land Use Map Amendment for property located at the Southeast

corner of US 17 and SR 16 for approximately 58.12 acres of parcel #016451-000-00 and

a portion of parcel #016451-003-00.

Future Land Use Amendment: from: Mixed Use

to: Industrial

#### PROPERTY DESCRIPTION

**APPLICANT:** David Smith, Louis L Huntley **OWNER:** Louis Ward Huntley

Enterprises

**PROPERTY LOCATION:** 965 Leonard C Taylor Highway

**PARCEL NUMBER:** 016451-000-00

FILE NUMBER: FLUS-24-001

**CURRENT ZONING:** C-2 General Commercial

**FUTURE LAND USE DESIGNATION**: Mixed Use

#### SURROUNDING LAND USE

NORTH: FLU: MIXED USE SOUTH: FLU: MIXED USE

**Z**: C-2

Use: Undeveloped Use: Undeveloped

EAST: FLU: MIXED USE WEST: FLU: MIXED USE

**Z**: C-2

Use: Undeveloped Use: Undeveloped

#### **BACKGROUND**

The applicant has applied for a Future Land Use and Zoning Change for the subject property for the construction of industrial development. There is an existing building on the site that had been used for manufacturing plant which has been closed in 2010. However industrial businesses such as Woodford Plywood, Meever USA and Front Runner Boatworks have been located at this location as nonconforming industrial uses.

The property is surrounded by the HLM property on all sides. Property access to SR 16 is provided through a vehicular and utility easement.

To the south and east of the property there is an extension of the CSX rail line that is owned by the City and has fallen into disrepair. The applicant has expressed an interest in entering an agreement with the City to repair the existing Rail line and add a Railroad spur to serve potential future Industrial users on the property. These actions would require a separate agreement to be approved by the City.

All proposed new development will be required to meet the City's Site Development Plan code requirements and be submitted to the Planning Commission and City Council for approval.

The site is located within the City's Water, Sewer, and Electric Service Boundaries. It will be served by the City's sanitation services.

Additionally, the applicant has previously submitted the following future land use and rezoning requests:

Application #	Description
FLUS-23-005	Future Land Use Application from Mixed Use to Industrial
ZON-23-007	Rezoning Application from C-2 General Business to M-2 Heavy Industrial
FLUS-23-006	Future Land Use Application from Mixed Use to Industrial
ZON-23-007	Rezoning Application from C-2 General Business to M-2 Heavy Industrial

These previous cases were approved at the Planning Commission in August of 2023 and table by the City Council on the September 19, 2023 meeting due to concerns by Council regarding the impact of approving additional industrial development along a key gateway corridor coming into the City. The applicant agreed to submit a Future Land Use text amendment to address the following issues:

- Land uses
- Site Design
- Buffering
- Traffic

The text amendment will be required to be a large-scale amendment, so as a result, the map amendment will now be taken as a large-scale amendment as well.

#### Site Specific Text Amendment

Objective 1.8 The City shall adopt, as necessary, Future Land Use Map Amendments with specific development conditions that are consistent with the City's adopted Level of Service (LOS) standards and Future Land Use Element, and compatible with the surrounding uses. Policy 1.8.1: Future Land Use Map (FLUM) Amendment adopted by Ordinance Number O-01-2024 on XXX,XX, 2024 changes the future land use on the amendment area from Mixed Use to Industrial. Development shall meet the requirements of all applicable goals, objectives and policies of the Comprehensive Plan; however, the land use and development potential made available by the FLUM Amendment Ordinance O-01-2024 is hereby limited based on the following:

- 1. Prior to the approval of a subsequent development order such as but not limited to a subdivision or site development plan, the property owner/developer must submit a developer's agreement addressing the following development requirements for the Amendment parcels that is currently owned by HLM Investments that is adjacent to SR 16 and US 17:
  - a) Address screening and buffering requirements between the Amendment parcels or portion thereof and the remaining portion of parcel 016451-0000 and SR 16 and US 17.
  - b) Address Building, site and streetscape design requirements for the Amendment parcels or portion thereof and the remaining portion of parcel 016451-0000 adjacent to SR 16 and US 17. These requirements shall include but are not limited to:
    - a. Block Standards
    - b. Building Placement
    - c. Building Typology and Massing
    - d. Building Frontage Design
    - e. Façade Articulation
    - f. Entrances
    - g. Building Materials
    - h. Lighting
    - i. Service Area and Mechanical Equipment Screening
    - j. Signage
- 2. Prior to approval of a subsequent development order, such as but not limited a zoning, subdivision or site development plan, the property owner/developer will be required to provide an Access Management Plan and Traffic Impact Analysis and to address site access and traffic capacity, the plan must be developed in cooperation with Florida Department of Transportation, Clay County and the City of Green Cove Springs. The Access Management Plan and traffic capacity plan shall be completed prior to the approval of a subsequent development order such as a Zoning, Subdivision or Site Development Plan for the Amendment Parcels that is currently owned by HLM Investments that is adjacent to SR 16 and US 17;
- 3. Limit uses on the Amendment Parcels by allowing M-1 Uses by right and M-2 uses as a special exception.

4. Property shall be rezoned to a Planned Unit Development (PUD). A conceptual plan and written description shall be included with the PUD submittal.

## Aerial



## **Environmental Conditions Analysis**

## **Maps of Environmental Features**

## Wetlands

There are Riverines or Riparian wetlands located in the northeast area of the property.



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## Floodplain

A portion of the subject property is located in Flood zone A which are areas subject to inundation by the 1 percent annual chance flood event generally determined using approximate methodologies.



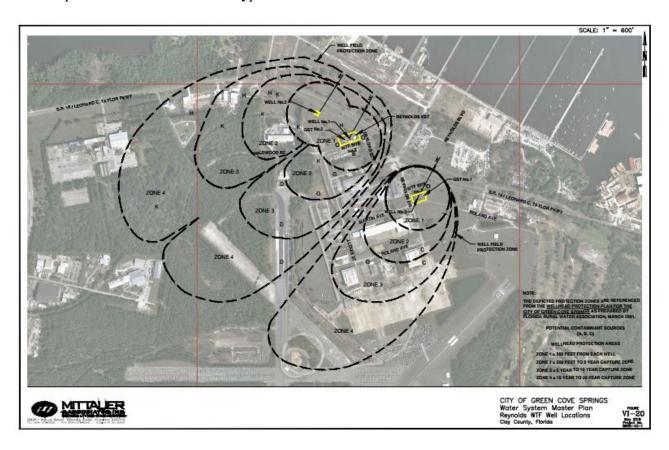
#### **Additional Environmental Issues:**

The Florida Department of Environmental Protection (FDEP) became aware of groundwater contamination on the property in July 2015 and subsequently provided a Declaration of Restrictive Covenant on the property which was recorded with the Clay County Clerk of Court in March 2020 and is attached for your review. Pursuant to FDEP's investigation chlorinated hydorcarbons were detected on the subject property and adjacent property as set forth in Exhibit D of the 1<sup>st</sup> Amendment to the DRCGCS Town Center which is enclosed. In April of 2022, a Conditional Site Rehabilitation Completion Order was approved by FDEP that limited the contamination issue to the groundwater. As a result, the following improvements are prohibited without meeting the requirements set forth in the Completion Order:

- a) Dewatering activities
- b) Stormwater management systems (including swales and ditches) can be constructed.
- c) Drinking, irrigation or monitoring well installation.

#### Wellfield Protection Zone

The project site is located within Zone 4 of the wellfield protection zone. They are outside of the 500' requirement which limits the types of uses on this site.



#### URBAN SPRAWL ANALYSIS

Section 163.3177, Florida Statutes, requires that any amendment to the Future Land Use Element to discourage the proliferation of urban sprawl. Section 163.3177(6)(a)9.a., Florida Statutes, identifies 13 primary urban sprawl indicators and states that, "[t]he evaluation of the presence of these indicators shall consist of an analysis of the plan or plan amendment within the context of features and characteristics unique to each locality..."

An evaluation of each primary indicator is provided below.

(I) Promotes, allows, or designates for development substantial areas of the jurisdiction to develop as low-intensity, low-density, or single-use development or uses.

**Evaluation & Findings**: The proposed amendment will revise the FLUM designation to Industrial. The area along the US 17 and SR 16 Corridors will remain as Mixed Use allowing for a mix of uses but at the same time allowing for increased employment opportunities.

(II) Promotes, allows, or designates significant amounts of urban development to occur in rural areas at substantial distances from existing urban areas while not using undeveloped lands that are available and suitable for development.

**Evaluation & Findings**: The project site is located within the US 17 Corridor that is currently Land Used and Zoned for predominantly commercial/industrial development The project site is located within the City's water and sewer and electric urban service areas.

(III) Promotes, allows, or designates urban development in radial, strip, isolated, or ribbon patterns generally emanating from existing urban developments.

**Evaluation & Findings**: The proposed Industrial designation allows for industrial uses, thereby providing a balance of uses to complement the Mixed Use designation adjacent along the US 17 and SR 16 Corridors.

(IV) Fails to adequately protect and conserve natural resources, such as wetlands, floodplains, native vegetation, environmentally sensitive areas, natural groundwater aquifer recharge areas, lakes, rivers, shorelines, beaches, bays, estuarine systems, and other significant natural systems.

**Evaluation & Findings**: The site has existing wetlands, floodplains and is within the wellhead protection area. In order to ensure that natural resources are protected, a site specific land use amendment requiring future development to comply with Development Restrictions regarding protecting groundwater.

(V) Fails to adequately protect adjacent agricultural areas and activities, including silviculture, active agricultural and silvicultural activities, passive agricultural activities, and dormant, unique, and prime farmlands and soils.

**Evaluation & Findings**: The project site is located within an urban area with surrounding commercial development. There are no adjacent agricultural areas and activities.

(VI) Fails to maximize use of existing public facilities and services.

**Evaluation & Findings**: With the project site being located within an area with existing development, the proposed development will utilize existing public facilities and services.

(VII) Allows for land use patterns or timing which disproportionately increase the cost in time, money, and energy of providing and maintaining facilities and services, including roads, potable

water, sanitary sewer, stormwater management, law enforcement, education, health care, fire and emergency response, and general government.

**Evaluation & Findings**: The project site is located within an existing commercial area with existing public facilities and services. The proposed development will utilize existing public facilities and services and shall mitigate for the increase in time, money, and energy for providing and maintaining these facilities through the payment of impact fees for utilities including roads, government services, and on-going ad valorem taxes.

(VIII) Fails to provide a clear separation between rural and urban uses.

**Evaluation & Findings**: The site is located within the City's water and sewer and electric urban service areas and is not adjacent to any rural zoned properties.

(X) Discourages or inhibits infill development or the redevelopment of existing neighborhoods and communities.

**Evaluation & Findings**: The proposed application will not discourage infill development and is located within an existing developed area.

(XI) Fails to encourage a functional mix of uses.

**Evaluation & Findings**: The project site will allow for industrial uses in an area that is suitable for industrial development.

(XII) Results in poor accessibility among linked or related land uses.

**Evaluation & Findings**: The project site shall have access via an easement to SR 16.

(XIII) Results in the loss of significant amounts of functional open space.

**Evaluation & Findings**: All proposed development shall comply with the City's landscape ordinance to ensure there shall be open space provided within the development.

In addition to the preceding urban sprawl indicators, Florida Statutes Section 163.3177 also establishes eight (8) "Urban Form" criteria. An amendment to the Future Land Use Map is presumed to not be considered urban sprawl if it meets four (4) of the (8) urban form criteria. These urban form criteria, and an evaluation of each as each may relate to this application, are provided below. The applicant has provided an analysis of the application's consistency with Section 163.3177 within the application materials and contends that the proposed amendment will not encourage urban sprawl by showing it meets four of the eight urban form criteria.

1. Directs or locates economic growth and associated land development to geographic areas of the community in a manner that does not have an adverse impact on and protects natural resources and ecosystems.

**Evaluation & Findings**: The project site is located within the City's water and sewer and electric urban service areas which have been planned to accommodate growth which allows for the preservation of the natural resources of outlying areas. In addition, all new development shall comply with the City's landscaping, tree preservation and resource protection ordinances.

2. Promotes the efficient and cost-effective provision or extension of public infrastructure and services.

**Evaluation & Findings**: This application, as well as the companion rezoning application, will result in utilizing existing public infrastructure and existing services.

3. Promotes walkable and connected communities and provides for compact development and a mix of uses at densities and intensities that will support a range of housing choices and a multimodal transportation system, including pedestrian, bicycle, and transit, if available.

**Evaluation & Findings**: Sidewalks are provided along US 17 and shall be provided as part of future development along SR 16.

Promotes conservation of water and energy.

**Evaluation & Findings**: The project site is located within an urban area with surrounding commercial development. Development in core urban areas reduces the pressure to develop in areas further outside of the urban areas.

5. Preserves agricultural areas and activities, including silviculture, and dormant, unique, and prime farmlands and soils.

**Evaluation & Findings**: The project site is located within an urban area with surrounding development. There are no adjacent agricultural areas and activities. Development in core urban areas reduces the pressure to develop in agricultural areas.

6. Preserves open space and natural lands and provides for public open space and recreation needs.

**Evaluation & Findings**: All proposed development shall comply with the City's landscape ordinance to ensure there shall be open space provided within the development.

7. Creates a balance of land uses based upon demands of the residential population for the nonresidential needs of an area.

**Evaluation & Findings**: The proposed site is located within close proximity to a variety of nonresidential uses. The proposed development will provide additional employment opportunities to the residents of this community, providing a balance of land uses to the area.

8. Provides uses, densities, and intensities of use and urban form that would remediate an existing or planned development pattern in the vicinity that constitutes sprawl or if it provides for an innovative development pattern such as transit-oriented developments or new towns as defined in s. 163.3164.

**Evaluation & Findings:** N/A

#### CONSISTENCY WITH THE COMPREHENSIVE PLAN

The following Goals, Objectives, and Policies (GOPs) support the proposed amendment to the Future Land Use Map of the City of Green Cove Springs Comprehensive Plan:

#### **FUTURE LAND USE ELEMENT**

**Goal 1**: To develop and maintain land use programs and activities to provide for the most appropriate use of the land and direct growth to suitable areas while protecting the public, health, safety and welfare of the public.

Objective 1.1. New development and Redevelopment shall be directed to appropriate areas of the City.

- e. Industrial (IND): This FLUC is intended to accommodate primarily light and heavy manufacturing, distribution, and storage, in addition to heavy commercial and professional office uses. Maximum Intensity: 0.6 FAR
- **Objective 1.2.** The City shall strive to cultivate a sustainable land use pattern by preventing the proliferation of urban sprawl, ensuring the efficient provision of services, and implementing smart growth principles.
- **Policy 1.2.1.** The location and timing of new development and the issuance of permits shall be coordinated with the availability of public facilities through implementation of various smart growth management measures.
- **Policy 1.2.6.** The City shall require new development to connect to the City's centralized potable water and sanitary sewer system.
- **Policy 1.2.7.** The City shall condition development orders upon the provision of essential facilities and services which meet and would not result in the failure of each service's established level of service (LOS).
- **Policy 1.2.8.** The City shall ensure the availability and protection of lands designated for the future expansion of public infrastructure.
- **Objective 1.4.** The City shall strive to preserve its natural resources.
- **Policy 1.4.5.** Development orders shall not be issued in areas where soils conditions are not adequate for building construction, drainage, roads, and other development-related facilities.

#### TRANSPORTATION ELEMENT

- **Policy 2.3.1.** The City shall rely on level of service (LOS) standards adopted in the Capital Improvements Element to ensure that acceptable traffic conditions are maintained\*.
- \*The City is in the process of implementing a mobility plan and fee for new development to ensure that needed transportation improvements are provided to ensure that the City is addressing transportation congestion issues and providing for multimodal improvements.
- **Policy 2.5.3.** The City shall review development applications to ensure that adequate capacity is available to serve the proposed project. The latest version of Trip Generation Manual published by the

Institute of Transportation Engineers (ITE) shall be used to determine the number of trips that the

proposed development will produce or attract.

# SANITARY SEWER, SOLID WASTE, DRAINAGE, POTABLE WATER, AND AQUIFER RECHARGE ELEMENT

- **Objective 4.2.** The City shall continue to provide safe and adequate sanitary sewer service to all existing and future developments located within the City limits. Existing Sanitary Sewer deficiencies shall be scheduled for correction in the Capital Improvements Element.
- **Policy 4.2.1** All Future Development shall be required to connect to the City's Sanitary Sewer Collection
- **Policy 4.2.1.** All Future Development shall be required to connect to the City's Sanitary Sewer Collection.

- **Objective 4.6**. Future Development shall be required to connect with central water systems and provide stormwater facilities which maximize the use of existing facilities and discourage urban sprawl.
- **Policy 4.6.1.** The City shall annually monitor the condition of level of service standards for solid waste, potable water, wastewater, and stormwater facilities. The Planning and Zoning Department shall be assigned the task of reviewing all development orders to determine their current and future impacts on the capacities of existing public facilities.
- **Policy 4.6.2.** No permit shall be issued for new development which will result in an increase in demand on deficient capacities or if adequate facility capacities for solid waste, potable water, sanitary sewer, and drainage facilities are not available prior to or concurrent with the development's impact.

#### **CONSERVATION ELEMENT**

**Policy 5.3.2.** The City shall ensure that public potable water wellfields will be located in areas where they will be least impacted by development and contamination.

#### INTERGOVERNMENTAL COORDINATION ELEMENT

- **Objective 7.1.** The City shall act to ensure that all planning and development related activities are coordinated with the comprehensive plan or any other plans of Clay County, the Northeast Florida Regional Council (NEFRC), and the School Board.
- **Policy 7.1.1.** Maintain procedures to review comprehensive plans and comprehensive plan amendments of the County and the plans of the Clay County School Board and the Northeast Florida Regional Council.

#### ECONOMIC DEVELOPMENT ELEMENT

- **Policy 9.1.6.** Continue collaboration through the Clay County EDC and the Clay County Chamber of Commerce with Florida Chamber of Commerce and Enterprise Florida Inc for sector strategy development, regional incentive updates and statewide attraction and site selection programs.
- **Objective 9.5.** The City shall collaborate economic development efforts with state, regional and local partners to foster a system of enhanced communication and partnerships within the Northeast Florida region.

#### PRIVATE PROPERTY RIGHTS ELEMENT

- **Objective 10.1.** The City shall recognize that each property owner has constitutionally protected private property rights and shall consider these property rights in local decision making by referring to a set of statement of rights identified in this element.
- **Policy 10.1.1.** The following rights shall be considered in local decision making:
- a. The right of a property owner to physically possess and control his or her interests in the property, including easements, leases, or mineral rights.
- b. The right of a property owner to use, maintain, develop, and improve his or her property for personal use or for the use of any other person, subject to state law and local ordinances.

- c. The right of the property owner to privacy and to exclude others from the property to protect the owner's possessions and property.
- d. The right of a property owner to dispose of his or her property through sale or gift.

#### **PUBLIC FACILITIES IMPACT**

#### **Traffic Impacts**

Land Use <sup>1</sup>	Square Footage/Dwelling	Daily		AM Peak		PM Peak	
(ITE)	Units	Rate	Trips	Rate	Trips	Rate	Trips
		1					
Industrial	2,531	6.83	3,554	.82	476	.85	496

<sup>1.</sup> Source: Institute of Transportation Engineers: Trip Generation Manual 9th Edition

**Conclusion:** There are no development plans at this time as a result, the traffic impacts were calculated on the total acreage of the proposed industrial park.

## Potable Water Impacts Industrial

System Category	Gallons Per Day (GPD)
Current Permitted Capacity <sup>1</sup>	4,200,000
Less actual Potable Water Flows <sup>1</sup>	1,013,000
Residual Capacity <sup>1</sup>	3,187,000
Projected Potable Water Demand from Proposed Project <sup>2</sup>	167,092
Residual Capacity after Proposed Project	3,019,907

- 1. Source: City of Green Cove Springs Public Works Department
- 2. Source: City of Green Cove Springs Comprehensive Plan. Formula Used: .11 x sq ft (based on historical data)

*Conclusion:* The impact was calculated based on potential industrial uses. As shown in the table above, there is adequate capacity this use type. The City has existing water lines installed at this location.

## Sanitary Sewer Impacts – South Plant WWTP Industrial

System Category	Gallons Per Day (GPD)
Current Permitted Capacity <sup>1</sup>	350,000
Current Loading <sup>1</sup>	270,000
Committed Loading <sup>1</sup>	330,000
Projected Sewer Demand from Proposed Project <sup>2</sup>	167,092
Residual Capacity after Proposed Project	-321,874

- 1. Source: City of Green Cove Springs Public Works Department
- 2. Source: City of Green Cove Springs Comprehensive Plan. Formula Used: .11 x sq ft (based on historical data)

Conclusion: The impact was calculated based on potential commercial or residential uses. The project site is served by the South Plant Wastewater Treatment Plant (WWTP). As shown in the table above, when factoring in the current loading and the committed loading, this WWTP is over capacity to handle the estimated impacts resulting from the proposed application. The committed loading is related to the Rookery Development which will be completed in two years prior to the commencement of this project. At such time, the Rookery capacity will be served by a new wastewater treatment facility provided by the Clay County Utility Authority. Once the facility is built, the capacity temporarily reserved to the Rookery shall be available for this development. In addition, the remaining demand will be sent via force main to the Harbor Road plant, where the City has an excess capacity of approximately 700,000 gallons per day. As a result, there is adequate capacity. The City has existing sewer lines at this location.

## Solid Waste Impacts Industrial

System Category	LBs Per Day / Tons per Year
Solid Waste Generated by Proposed Project <sup>1</sup>	None
Solid Waste Facility Capacity <sup>2</sup>	Minimum 3 Years Capacity

Source: City of Green Cove Springs does not provide commercial sanitation services, prospective sanitation collection franchisees shall comply with City Code Section 66-10.

#### Solid Waste Impacts

The City of Green Cove Springs' solid waste is disposed of at the Rosemary Hill Solid Waste Management Facility operated by Clay County. Per the Clay County Comprehensive Plan, a minimum of three (3) years capacity shall be maintained at the County's solid waste management facility. For commercial developments, the City does not provide Curbside Service; commercial locations must instead contract with an approved franchisee for containerized collection.

*Conclusion:* The proposed future land use amendment and rezoning are not expected to negatively impact the City's adopted LOS or exceed the County solid waste management facility's capacity.

#### **Compatibility**

The Subject Property is located adjacent to a Mixed Use Land Use District to the north and west and to the east the property is the Reynolds AirPark which is zoned Industrial. The properties to the south along Hall Park Road are also Zoned Industrial. In addition, the subject property is in close proximity to a Railroad which is conducive for Industrial Development and had previously been used as a Manufacturing facility. The property along US 17 and SR 16 shall remain as commercial properties in keeping with providing a commercial gateway into the City. As a result, the proposed Future Land Use and Zoning application is suitable for the property and compatible with the surrounding uses.

#### **Intent of Existing Future Land Use District**

This Designation encompasses lands along major transportation corridors and is intended to accommodate primarily nonresidential uses including light and heavy commercial uses, lodging, and professional offices, interspersed with medium density residential uses and public/semi-public facilities.

#### **Intent of Proposed Future Land Use District**

This Designation is intended to accommodate primarily light and heavy manufacturing, distribution, and storage, in addition to heavy commercial and professional office uses.

### **Existing Future Land Use**



### **Proposed Future Land Use**



#### STAFF RECOMMENDATION

Staff recommends approval of the Future Land Use designation from Mixed Use to Industrial subject to the Site-Specific Text Amendment with the following conditions:

- 1. Provide a comprehensive traffic study meeting the City Traffic Impact Analysis (TIA) for new development prior to approval of a subsequent development order.
- 2. Limit Uses within the amendment parcels to permitted uses in the M-1 Light Industrial Zoning Classification.

#### **RECOMMENDED MOTIONS:**

#### **Future Land Use**

Recommend to City Council approval of ordinance O-01-2024, to amend the Future Land Use of the property described therein from Mixed Use to Industrial

Recommend to City Council approval of ordinance O-02-2024, regarding a site-specific text amendment regarding the Future Land Use of the property described therein from Mixed Use to Industrial

- 1. Provide a comprehensive traffic study meeting the City Traffic Impact Analysis (TIA) for new development prior to approval of a subsequent development order.
- 2. Limit Uses within the amendment parcels to permitted uses in the M-1 Light Industrial Zoning Classification.



FOR OFFICE USE ONLY	
Received Date	
Application #:	
Acceptance Date:	
Review Date: SRDTP & ZCC	

## Small Scale Future Land Use Map Amendment Application

A. PRO		
1.	Project Name: LLHE INDUSTRIAL REZONE	_
2.	Address of Subject Property: 965 LEONARD C. TAYLOR PARK WAY	-
3.	Parcel ID Number(s): 38-06-26-016451-000-00	
4.	Existing Use of Property: INDUSTRIAL MANUFACTURING	_
5.	Future Land Use Map Designation : THOUSTRIAL LAND USE / MIXED USE	~
6.	Existing Zoning Designation: COMMERCIAL HIGH INTENSITY 62 GENERAL OF THE COMMERCIAL HIGH INTENSITY 62 GENERAL OF THE COMMERCIAL HIGH INTENSITY 62 GENERAL	COMMERCIAL
7.	Proposed Future Land Use Map Designation: INDUSTRIAL (IND)	•
8.	Acreage (must be 50 acres or less):	
B. APPI	LICANT	
1.	Applicant's Status	
2.	Name of Applicant(s) or Contact Person(s): DAVID SMITH Title: MANAGER	_
	Company (if applicable): LOUIS L. HUNTLEY ENTERPRISES, INC.	_
	Mailing address: 1890 KING-SLEY AVE. STE 102	_
	City: OKANGE PARK State: FL ZIP: 31073	
	Telephone: (104) 271 0435 e-mail: A-VAUGHN@ MMSEJAX.COM	
3.	If the applicant is agent for the property owner*	
	Name of Owner (title holder): 1001S WARD HUNTLEY	
	Mailing address: 1890 KINGSLEY AVE., STE. 102	_
	City: ORANGE PARK State: FL ZIP: 32073	_
	Telephone: (904) 631-0124 e-mail: JFFY JOE@ AOL. COM	
* 8.4		
	st provide executed Property Owner Affidavit authorizing the agent to act on behalf of the property owner.	Table 1 and
	<ol> <li>Is there any additional contact for sale of, or options to purchase, the subject property?</li> <li>Yes</li> <li>No If yes, list names of all parties involved:</li> </ol>	
	If yes, is the contract/option contingent or absolute?  Contingent Absolute	

City of Green Cove Springs Development Services Department ♦321 Walnut Street♦ Green Cove Springs, FL 32043♦(904) 297-7500

#### D. ATTACHMENTS

- Statement of proposed change, including a map showing the proposed Future Land Use Map change and Future Land Use Map designations on surrounding properties
- 2. A map showing the zoning designations on surrounding properties
- 3. A current aerial map (Maybe obtained from the Clay County Property Appraiser.)
- 4. Legal description with tax parcel number.
- 5. Boundary survey
- 6. Warranty Deed or the other proof of ownership
- 7. Fee.
  - a. \$750, plus
  - b. All applications are subject 10% administrative fee and must pay the cost of postage, signs, advertisements and the fee for any outside consultants.

No application shall be accepted for processing until the required application fee is paid in full by the applicant. Any fees necessary for technical review or additional reviews of the application by a consultant will be billed to the applicant at the rate of the reviewing entity. The invoice shall be paid in full prior to any action of any kind on the development application.

All attachments are required for a complete application. A completeness review of the application will be conducted within five (5) business days of receipt. If the application is determined to be incomplete, the application will be returned to the applicant.

I/We certify and acknowledge that the information contained herein is true and correct to the best of richnowledge:  White the information contained herein is true and correct to the best of richnowledge:				
Signature of Applicant  1/A v47 2. Sasty	Signature of Co-applicant			
Typed or printed name and title of applicant	Typed or printed name of co-applicant			
Date	Date			
State of FL County of C	LAY			
The foregoing application is acknowledged before me this, who is/are personally kr	day of MAY, 20 <u>23,</u> by nown to me, or who has/have produced			
as identification.				
NOTARY SEAL	Don			
AMY V. DEWEY  Commission # HH 247227  Expires June 11, 2026	e of Notary Public, State of <u>FL</u>			

City of Green Cove Springs Development Services Department \$321 Walnut Street Green Cove Springs, FL 32043 (904) 297-7500



FOR OFFICE USE ONLY	Ite	m # 3.
Received Date		
Application #:		
Acceptance Date:		
Review Date: SRDT P & Z CC		

# Small Scale Future Land Use Map Amendment Application

A. PRO		
1.	Project Name: HIM INDUSTRIAL RETONE	
2.	Address of Subject Property: LEONARD C TAYLOR PKWY	
3.	Parcel ID Number(s): (A PORTION OF) 38-06-26-016451-003-00	
4.	Existing Use of Property: INDUSTRIAL MANUFACTURING AND 1679	
5.	Future Land Use Map Designation:	
6.	Existing Zoning Designation: CHI COMMERCIAL WITH INTENSITY CZ GENERAL COMMERCH	41
7.	Proposed Future Land Use Map Designation: NOUSTRIAL (IND)	
8.	Acreage (must be 50 acres or less): 31+/- + 11+/- = 43.21	
B. APPI	LICANT /	
1.	Applicant's Status	
2.	Name of Applicant(s) or Contact Person(s): WARD HUNTLEY Title: OWNER	
	Company (if applicable):   IM INVESTMENTS	
	Mailing address: 1890 KINGSLEY AVE., STE. 102	
	City: ORANOF PARK State: 17 ZIP: 32073	
	Telephone: 904, 272-0435 e-mail: A. VAUGINEMMSEJAX. COM	
3.	If the applicant is agent for the property owner*	
	Name of Owner (title holder):	
	Mailing address:	
	City: State: ZIP:	
	Telephone: () e-mail:	
* Mu	st provide executed Property Owner Affidavit authorizing the agent to act on behalf of the property owner.	
C. ADD	ITIONAL INFORMATION	
	1. Is there any additional contact for sale of, or options to purchase, the subject property?  Yes No If yes, list names of all parties involved:	
	If yes, is the contract/option contingent or absolute?  Contingent	

City of Green Cove Springs Development Services Department ♦321 Walnut Street♦ Green Cove Springs, FL 32043♦(904) 297-7500

#### D. ATTACHMENTS

- Statement of proposed change, including a map showing the proposed Future Land Use Map change and Future Land Use Map designations on surrounding properties
- 2. A map showing the zoning designations on surrounding properties
- 3. A current aerial map (Maybe obtained from the Clay County Property Appraiser.)
- 4. Legal description with tax parcel number.
- 5. Boundary survey
- 6. Warranty Deed or the other proof of ownership
- 7. Fee.
  - a. \$750, plus
  - b. All applications are subject 10% administrative fee and must pay the cost of postage, signs, advertisements and the fee for any outside consultants.

No application shall be accepted for processing until the required application fee is paid in full by the applicant. Any fees necessary for technical review or additional reviews of the application by a consultant will be billed to the applicant at the rate of the reviewing entity. The invoice shall be paid in full prior to any action of any kind on the development application.

All attachments are required for a complete application. A completeness review of the application will be conducted within five (5) business days of receipt. If the application is determined to be incomplete, the application will be returned to the applicant.

I/We certify and acknowledge that the informati knowledge:	ion contained herein is true and correct to the best of my/our
The HA	
Signature of Applicant	Signature of Co-applicant
Ward Huntley	
Typed or printed name and title of applicant	Typed or printed name of co-applicant
6-5-23	
Date	Date
State of(	County of Clay
LIADO HINTIEV	me this day of, 2023 by personally known to me, or who has/have produced
as identification.	
NOTARY SEAL	apropeny
AMY V. DEWEY  Commission # HH 247227  Expires June 11, 2026	Signature of Notary Public, State of T

City of Green Cove Springs Development Services Department \$321 Walnut Street Green Cove Springs, FL 32043 (904) 297-7500





## Existing Future Land Use

Downtown
Industrial

Mixed-Use

Mixed-Use RP

Neighborhood

Public





# Proposed Future Land Use

Downtown
Industrial

Mixed-Use

Mixed-Use RP

Neighborhood

Public



### **STAFF REPORT**

### CITY OF GREEN COVE SPRINGS, FLORIDA

TO: Planning and Zoning Commission MEETING DATE: January 23, 2024

**FROM:** Michael Daniels, AICP, Development Services Director

**SUBJECT:** Large Scale Future Land Use Text Amendment for property located at the Southeast

corner of US 17 and SR 16 for approximately 58.12 acres of parcel #016451-000-00 and

a portion of parcel #016451-003-00.

Future Land Use Amendment: from: Mixed Use

to: Industrial

#### PROPERTY DESCRIPTION

**APPLICANT:** David Smith, Louis L Huntley **OWNER:** Louis Ward Huntley

Enterprises

**PROPERTY LOCATION:** 965 Leonard C Taylor Highway

**PARCEL NUMBER:** 016451-000-00

FILE NUMBER: FLUS-24-001

**CURRENT ZONING:** C-2 General Commercial

**FUTURE LAND USE DESIGNATION**: Mixed Use

#### **SURROUNDING LAND USE**

NORTH: FLU: MIXED USE SOUTH: FLU: MIXED USE

**Z**: C-2

Use: Undeveloped Use: Undeveloped

EAST: FLU: MIXED USE WEST: FLU: MIXED USE

**Z**: C-2

Use: Undeveloped Use: Undeveloped

#### **BACKGROUND**

The applicant has applied for a Future Land Use and Zoning Change for the subject property for the construction of industrial development. There is an existing building on the site that had been used for manufacturing plant which has been closed in 2010. However industrial businesses such as Woodford Plywood, Meever USA and Front Runner Boatworks have been located at this location as nonconforming industrial uses.

The property is surrounded by the HLM property on all sides. Property access to SR 16 is provided through a vehicular and utility easement.

To the south and east of the property there is an extension of the CSX rail line that is owned by the City and has fallen into disrepair. The applicant has expressed an interest in entering an agreement with the City to repair the existing Rail line and add a Railroad spur to serve potential future Industrial users on the property. These actions would require a separate agreement to be approved by the City.

All proposed new development will be required to meet the City's Site Development Plan code requirements and be submitted to the Planning Commission and City Council for approval.

The site is located within the City's Water, Sewer, and Electric Service Boundaries. It will be served by the City's sanitation services.

Additionally, the applicant has previously submitted the following future land use and rezoning requests:

Application #	Description
FLUS-23-005	Future Land Use Application from Mixed Use to Industrial
ZON-23-007	Rezoning Application from C-2 General Business to M-2 Heavy Industrial
FLUS-23-006	Future Land Use Application from Mixed Use to Industrial
ZON-23-007	Rezoning Application from C-2 General Business to M-2 Heavy Industrial

These previous cases were approved at the Planning Commission in August of 2023 and table by the City Council on the September 19, 2023 meeting due to concerns by Council regarding the impact of approving additional industrial development along a key gateway corridor coming into the City. The applicant agreed to submit a Future Land Use text amendment to address the following issues:

- Land uses
- Site Design
- Buffering
- Traffic

The text amendment will be required to be a large-scale amendment, so as a result, the map amendment will now be taken as a large-scale amendment as well.

#### Site Specific Text Amendment

Objective 1.8 The City shall adopt, as necessary, Future Land Use Map Amendments with specific development conditions that are consistent with the City's adopted Level of Service (LOS) standards and Future Land Use Element, and compatible with the surrounding uses. Policy 1.8.1: Future Land Use Map (FLUM) Amendment adopted by Ordinance Number O-01-2024 on XXX,XX, 2024 changes the future land use on the amendment area from Mixed Use to Industrial. Development shall meet the requirements of all applicable goals, objectives and policies of the Comprehensive Plan; however, the land use and development potential made available by the FLUM Amendment Ordinance O-01-2024 is hereby limited based on the following:

- 1. Prior to the approval of a subsequent development order such as but not limited to a subdivision or site development plan, the property owner/developer must submit a developer's agreement addressing the following development requirements for the Amendment parcels that is currently owned by HLM Investments that is adjacent to SR 16 and US 17:
  - a) Address screening and buffering requirements between the Amendment parcels or portion thereof and the remaining portion of parcel 016451-0000 and SR 16 and US 17.
  - b) Address Building, site and streetscape design requirements for the Amendment parcels or portion thereof and the remaining portion of parcel 016451-0000 adjacent to SR 16 and US 17. These requirements shall include but are not limited to:
    - a. Block Standards
    - b. Building Placement
    - c. Building Typology and Massing
    - d. Building Frontage Design
    - e. Façade Articulation
    - f. Entrances
    - g. Building Materials
    - h. Lighting
    - i. Service Area and Mechanical Equipment Screening
    - j. Signage
- 2. Prior to approval of a subsequent development order, such as but not limited a zoning, subdivision or site development plan, the property owner/developer will be required to provide an Access Management Plan and Traffic Impact Analysis and to address site access and traffic capacity, the plan must be developed in cooperation with Florida Department of Transportation, Clay County and the City of Green Cove Springs. The Access Management Plan and traffic capacity plan shall be completed prior to the approval of a subsequent development order such as a Zoning, Subdivision or Site Development Plan for the Amendment Parcels that is currently owned by HLM Investments that is adjacent to SR 16 and US 17;
- 3. Limit uses on the Amendment Parcels by allowing M-1 Uses by right and M-2 uses as a special exception.

4. Property shall be rezoned to a Planned Unit Development (PUD). A conceptual plan and written description shall be included with the PUD submittal.

### Aerial



### **Environmental Conditions Analysis**

### **Maps of Environmental Features**

### Wetlands

There are Riverines or Riparian wetlands located in the northeast area of the property.



Page 125

### Floodplain

A portion of the subject property is located in Flood zone A which are areas subject to inundation by the 1 percent annual chance flood event generally determined using approximate methodologies.



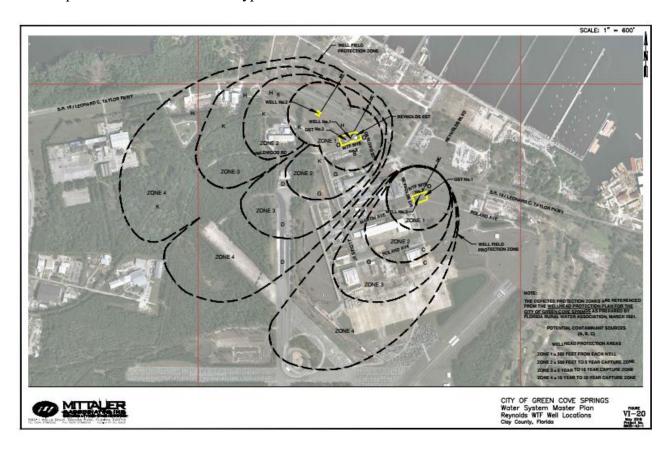
#### **Additional Environmental Issues:**

The Florida Department of Environmental Protection (FDEP) became aware of groundwater contamination on the property in July 2015 and subsequently provided a Declaration of Restrictive Covenant on the property which was recorded with the Clay County Clerk of Court in March 2020 and is attached for your review. Pursuant to FDEP's investigation chlorinated hydorcarbons were detected on the subject property and adjacent property as set forth in Exhibit D of the 1<sup>st</sup> Amendment to the DRCGCS Town Center which is enclosed. In April of 2022, a Conditional Site Rehabilitation Completion Order was approved by FDEP that limited the contamination issue to the groundwater. As a result, the following improvements are prohibited without meeting the requirements set forth in the Completion Order:

- a) Dewatering activities
- b) Stormwater management systems (including swales and ditches) can be constructed.
- c) Drinking, irrigation or monitoring well installation.

#### Wellfield Protection Zone

The project site is located within Zone 4 of the wellfield protection zone. They are outside of the 500' requirement which limits the types of uses on this site.



#### URBAN SPRAWL ANALYSIS

Section 163.3177, Florida Statutes, requires that any amendment to the Future Land Use Element to discourage the proliferation of urban sprawl. Section 163.3177(6)(a)9.a., Florida Statutes, identifies 13 primary urban sprawl indicators and states that, "[t]he evaluation of the presence of these indicators shall consist of an analysis of the plan or plan amendment within the context of features and characteristics unique to each locality..."

An evaluation of each primary indicator is provided below.

(I) Promotes, allows, or designates for development substantial areas of the jurisdiction to develop as low-intensity, low-density, or single-use development or uses.

**Evaluation & Findings**: The proposed amendment will revise the FLUM designation to Industrial. The area along the US 17 and SR 16 Corridors will remain as Mixed Use allowing for a mix of uses but at the same time allowing for increased employment opportunities.

(II) Promotes, allows, or designates significant amounts of urban development to occur in rural areas at substantial distances from existing urban areas while not using undeveloped lands that are available and suitable for development.

**Evaluation & Findings**: The project site is located within the US 17 Corridor that is currently Land Used and Zoned for predominantly commercial/industrial development The project site is located within the City's water and sewer and electric urban service areas.

(III) Promotes, allows, or designates urban development in radial, strip, isolated, or ribbon patterns generally emanating from existing urban developments.

**Evaluation & Findings**: The proposed Industrial designation allows for industrial uses, thereby providing a balance of uses to complement the Mixed Use designation adjacent along the US 17 and SR 16 Corridors.

(IV) Fails to adequately protect and conserve natural resources, such as wetlands, floodplains, native vegetation, environmentally sensitive areas, natural groundwater aquifer recharge areas, lakes, rivers, shorelines, beaches, bays, estuarine systems, and other significant natural systems.

**Evaluation & Findings**: The site has existing wetlands, floodplains and is within the wellhead protection area. In order to ensure that natural resources are protected, a site specific land use amendment requiring future development to comply with Development Restrictions regarding protecting groundwater.

(V) Fails to adequately protect adjacent agricultural areas and activities, including silviculture, active agricultural and silvicultural activities, passive agricultural activities, and dormant, unique, and prime farmlands and soils.

**Evaluation & Findings**: The project site is located within an urban area with surrounding commercial development. There are no adjacent agricultural areas and activities.

(VI) Fails to maximize use of existing public facilities and services.

**Evaluation & Findings**: With the project site being located within an area with existing development, the proposed development will utilize existing public facilities and services.

(VII) Allows for land use patterns or timing which disproportionately increase the cost in time, money, and energy of providing and maintaining facilities and services, including roads, potable

water, sanitary sewer, stormwater management, law enforcement, education, health care, fire and emergency response, and general government.

**Evaluation & Findings**: The project site is located within an existing commercial area with existing public facilities and services. The proposed development will utilize existing public facilities and services and shall mitigate for the increase in time, money, and energy for providing and maintaining these facilities through the payment of impact fees for utilities including roads, government services, and on-going ad valorem taxes.

(VIII) Fails to provide a clear separation between rural and urban uses.

**Evaluation & Findings**: The site is located within the City's water and sewer and electric urban service areas and is not adjacent to any rural zoned properties.

(X) Discourages or inhibits infill development or the redevelopment of existing neighborhoods and communities.

**Evaluation & Findings**: The proposed application will not discourage infill development and is located within an existing developed area.

(XI) Fails to encourage a functional mix of uses.

**Evaluation & Findings**: The project site will allow for industrial uses in an area that is suitable for industrial development.

(XII) Results in poor accessibility among linked or related land uses.

Evaluation & Findings: The project site shall have access via an easement to SR 16.

(XIII) Results in the loss of significant amounts of functional open space.

**Evaluation & Findings**: All proposed development shall comply with the City's landscape ordinance to ensure there shall be open space provided within the development.

In addition to the preceding urban sprawl indicators, Florida Statutes Section 163.3177 also establishes eight (8) "Urban Form" criteria. An amendment to the Future Land Use Map is presumed to not be considered urban sprawl if it meets four (4) of the (8) urban form criteria. These urban form criteria, and an evaluation of each as each may relate to this application, are provided below. The applicant has provided an analysis of the application's consistency with Section 163.3177 within the application materials and contends that the proposed amendment will not encourage urban sprawl by showing it meets four of the eight urban form criteria.

1. Directs or locates economic growth and associated land development to geographic areas of the community in a manner that does not have an adverse impact on and protects natural resources and ecosystems.

**Evaluation & Findings**: The project site is located within the City's water and sewer and electric urban service areas which have been planned to accommodate growth which allows for the preservation of the natural resources of outlying areas. In addition, all new development shall comply with the City's landscaping, tree preservation and resource protection ordinances.

2. Promotes the efficient and cost-effective provision or extension of public infrastructure and services.

**Evaluation & Findings**: This application, as well as the companion rezoning application, will result in utilizing existing public infrastructure and existing services.

3. Promotes walkable and connected communities and provides for compact development and a mix of uses at densities and intensities that will support a range of housing choices and a multimodal transportation system, including pedestrian, bicycle, and transit, if available.

**Evaluation & Findings**: Sidewalks are provided along US 17 and shall be provided as part of future development along SR 16.

Promotes conservation of water and energy.

**Evaluation & Findings**: The project site is located within an urban area with surrounding commercial development. Development in core urban areas reduces the pressure to develop in areas further outside of the urban areas.

5. Preserves agricultural areas and activities, including silviculture, and dormant, unique, and prime farmlands and soils.

**Evaluation & Findings**: The project site is located within an urban area with surrounding development. There are no adjacent agricultural areas and activities. Development in core urban areas reduces the pressure to develop in agricultural areas.

6. Preserves open space and natural lands and provides for public open space and recreation needs.

**Evaluation & Findings**: All proposed development shall comply with the City's landscape ordinance to ensure there shall be open space provided within the development.

7. Creates a balance of land uses based upon demands of the residential population for the nonresidential needs of an area.

**Evaluation & Findings**: The proposed site is located within close proximity to a variety of nonresidential uses. The proposed development will provide additional employment opportunities to the residents of this community, providing a balance of land uses to the area.

8. Provides uses, densities, and intensities of use and urban form that would remediate an existing or planned development pattern in the vicinity that constitutes sprawl or if it provides for an innovative development pattern such as transit-oriented developments or new towns as defined in s. 163.3164.

**Evaluation & Findings**: N/A

#### CONSISTENCY WITH THE COMPREHENSIVE PLAN

The following Goals, Objectives, and Policies (GOPs) support the proposed amendment to the Future Land Use Map of the City of Green Cove Springs Comprehensive Plan:

#### **FUTURE LAND USE ELEMENT**

**Goal 1**: To develop and maintain land use programs and activities to provide for the most appropriate use of the land and direct growth to suitable areas while protecting the public, health, safety and welfare of the public.

Objective 1.1. New development and Redevelopment shall be directed to appropriate areas of the City.

- e. Industrial (IND): This FLUC is intended to accommodate primarily light and heavy manufacturing, distribution, and storage, in addition to heavy commercial and professional office uses. Maximum Intensity: 0.6 FAR
- **Objective 1.2.** The City shall strive to cultivate a sustainable land use pattern by preventing the proliferation of urban sprawl, ensuring the efficient provision of services, and implementing smart growth principles.
- **Policy 1.2.1.** The location and timing of new development and the issuance of permits shall be coordinated with the availability of public facilities through implementation of various smart growth management measures.
- **Policy 1.2.6.** The City shall require new development to connect to the City's centralized potable water and sanitary sewer system.
- **Policy 1.2.7.** The City shall condition development orders upon the provision of essential facilities and services which meet and would not result in the failure of each service's established level of service (LOS).
- **Policy 1.2.8.** The City shall ensure the availability and protection of lands designated for the future expansion of public infrastructure.
- **Objective 1.4.** The City shall strive to preserve its natural resources.
- **Policy 1.4.5.** Development orders shall not be issued in areas where soils conditions are not adequate for building construction, drainage, roads, and other development-related facilities.

#### TRANSPORTATION ELEMENT

- **Policy 2.3.1.** The City shall rely on level of service (LOS) standards adopted in the Capital Improvements Element to ensure that acceptable traffic conditions are maintained\*.
- \*The City is in the process of implementing a mobility plan and fee for new development to ensure that needed transportation improvements are provided to ensure that the City is addressing transportation congestion issues and providing for multimodal improvements.
- **Policy 2.5.3.** The City shall review development applications to ensure that adequate capacity is available to serve the proposed project. The latest version of Trip Generation Manual published by the
- Institute of Transportation Engineers (ITE) shall be used to determine the number of trips that the

proposed development will produce or attract.

# SANITARY SEWER, SOLID WASTE, DRAINAGE, POTABLE WATER, AND AQUIFER RECHARGE ELEMENT

- **Objective 4.2.** The City shall continue to provide safe and adequate sanitary sewer service to all existing and future developments located within the City limits. Existing Sanitary Sewer deficiencies shall be scheduled for correction in the Capital Improvements Element.
- **Policy 4.2.1** All Future Development shall be required to connect to the City's Sanitary Sewer Collection
- **Policy 4.2.1.** All Future Development shall be required to connect to the City's Sanitary Sewer Collection.

- **Objective 4.6**. Future Development shall be required to connect with central water systems and provide stormwater facilities which maximize the use of existing facilities and discourage urban sprawl.
- **Policy 4.6.1.** The City shall annually monitor the condition of level of service standards for solid waste, potable water, wastewater, and stormwater facilities. The Planning and Zoning Department shall be assigned the task of reviewing all development orders to determine their current and future impacts on the capacities of existing public facilities.
- **Policy 4.6.2.** No permit shall be issued for new development which will result in an increase in demand on deficient capacities or if adequate facility capacities for solid waste, potable water, sanitary sewer, and drainage facilities are not available prior to or concurrent with the development's impact.

#### **CONSERVATION ELEMENT**

**Policy 5.3.2.** The City shall ensure that public potable water wellfields will be located in areas where they will be least impacted by development and contamination.

#### INTERGOVERNMENTAL COORDINATION ELEMENT

- **Objective 7.1.** The City shall act to ensure that all planning and development related activities are coordinated with the comprehensive plan or any other plans of Clay County, the Northeast Florida Regional Council (NEFRC), and the School Board.
- **Policy 7.1.1.** Maintain procedures to review comprehensive plans and comprehensive plan amendments of the County and the plans of the Clay County School Board and the Northeast Florida Regional Council.

#### ECONOMIC DEVELOPMENT ELEMENT

- **Policy 9.1.6.** Continue collaboration through the Clay County EDC and the Clay County Chamber of Commerce with Florida Chamber of Commerce and Enterprise Florida Inc for sector strategy development, regional incentive updates and statewide attraction and site selection programs.
- **Objective 9.5.** The City shall collaborate economic development efforts with state, regional and local partners to foster a system of enhanced communication and partnerships within the Northeast Florida region.

#### PRIVATE PROPERTY RIGHTS ELEMENT

- **Objective 10.1.** The City shall recognize that each property owner has constitutionally protected private property rights and shall consider these property rights in local decision making by referring to a set of statement of rights identified in this element.
- **Policy 10.1.1.** The following rights shall be considered in local decision making:
- a. The right of a property owner to physically possess and control his or her interests in the property, including easements, leases, or mineral rights.
- b. The right of a property owner to use, maintain, develop, and improve his or her property for personal use or for the use of any other person, subject to state law and local ordinances.

- c. The right of the property owner to privacy and to exclude others from the property to protect the owner's possessions and property.
- d. The right of a property owner to dispose of his or her property through sale or gift.

#### **PUBLIC FACILITIES IMPACT**

#### **Traffic Impacts**

Land Use <sup>1</sup>	Square Footage/Dwelling	Daily		AM Peak		PM Peak	
(ITE)	Units	Rate	Trips	Rate	Trips	Rate	Trips
		1					
Industrial	2,531	6.83	3,554	.82	476	.85	496

<sup>1.</sup> Source: Institute of Transportation Engineers: Trip Generation Manual 9th Edition

**Conclusion:** There are no development plans at this time as a result, the traffic impacts were calculated on the total acreage of the proposed industrial park.

## Potable Water Impacts Industrial

System Category	Gallons Per Day (GPD)
Current Permitted Capacity <sup>1</sup>	4,200,000
Less actual Potable Water Flows <sup>1</sup>	1,013,000
Residual Capacity <sup>1</sup>	3,187,000
Projected Potable Water Demand from Proposed Project <sup>2</sup>	167,092
Residual Capacity after Proposed Project	3,019,907

- 1. Source: City of Green Cove Springs Public Works Department
- 2. Source: City of Green Cove Springs Comprehensive Plan. Formula Used: .11 x sq ft (based on historical data)

*Conclusion:* The impact was calculated based on potential industrial uses. As shown in the table above, there is adequate capacity this use type. The City has existing water lines installed at this location.

## Sanitary Sewer Impacts – South Plant WWTP Industrial

System Category	Gallons Per Day (GPD)	
Current Permitted Capacity <sup>1</sup>	350,000	
Current Loading <sup>1</sup>	270,000	
Committed Loading <sup>1</sup>	330,000	
Projected Sewer Demand from Proposed Project <sup>2</sup>	167,092	
Residual Capacity after Proposed Project	-321,874	

- 1. Source: City of Green Cove Springs Public Works Department
- 2. Source: City of Green Cove Springs Comprehensive Plan. Formula Used: .11 x sq ft (based on historical data)

Conclusion: The impact was calculated based on potential commercial or residential uses. The project site is served by the South Plant Wastewater Treatment Plant (WWTP). As shown in the table above, when factoring in the current loading and the committed loading, this WWTP is over capacity to handle the estimated impacts resulting from the proposed application. The committed loading is related to the Rookery Development which will be completed in two years prior to the commencement of this project. At such time, the Rookery capacity will be served by a new wastewater treatment facility provided by the Clay County Utility Authority. Once the facility is built, the capacity temporarily reserved to the Rookery shall be available for this development. In addition, the remaining demand will be sent via force main to the Harbor Road plant, where the City has an excess capacity of approximately 700,000 gallons per day. As a result, there is adequate capacity. The City has existing sewer lines at this location.

## Solid Waste Impacts Industrial

System Category	LBs Per Day / Tons per Year
Solid Waste Generated by Proposed Project <sup>1</sup>	None
Solid Waste Facility Capacity <sup>2</sup>	Minimum 3 Years Capacity

Source: City of Green Cove Springs does not provide commercial sanitation services, prospective sanitation collection franchisees shall comply with City Code Section 66-10.

#### Solid Waste Impacts

The City of Green Cove Springs' solid waste is disposed of at the Rosemary Hill Solid Waste Management Facility operated by Clay County. Per the Clay County Comprehensive Plan, a minimum of three (3) years capacity shall be maintained at the County's solid waste management facility. For commercial developments, the City does not provide Curbside Service; commercial locations must instead contract with an approved franchisee for containerized collection.

*Conclusion:* The proposed future land use amendment and rezoning are not expected to negatively impact the City's adopted LOS or exceed the County solid waste management facility's capacity.

#### **Compatibility**

The Subject Property is located adjacent to a Mixed Use Land Use District to the north and west and to the east the property is the Reynolds AirPark which is zoned Industrial. The properties to the south along Hall Park Road are also Zoned Industrial. In addition, the subject property is in close proximity to a Railroad which is conducive for Industrial Development and had previously been used as a Manufacturing facility. The property along US 17 and SR 16 shall remain as commercial properties in keeping with providing a commercial gateway into the City. As a result, the proposed Future Land Use and Zoning application is suitable for the property and compatible with the surrounding uses.

#### **Intent of Existing Future Land Use District**

This Designation encompasses lands along major transportation corridors and is intended to accommodate primarily nonresidential uses including light and heavy commercial uses, lodging, and professional offices, interspersed with medium density residential uses and public/semi-public facilities.

#### **Intent of Proposed Future Land Use District**

This Designation is intended to accommodate primarily light and heavy manufacturing, distribution, and storage, in addition to heavy commercial and professional office uses.

### **Existing Future Land Use**



### **Proposed Future Land Use**



#### STAFF RECOMMENDATION

Staff recommends approval of the Future Land Use designation from Mixed Use to Industrial subject to the Site-Specific Text Amendment with the following conditions:

- 1. Provide a comprehensive traffic study meeting the City Traffic Impact Analysis (TIA) for new development prior to approval of a subsequent development order.
- 2. Limit Uses within the amendment parcels to permitted uses in the M-1 Light Industrial Zoning Classification.

#### **RECOMMENDED MOTIONS:**

#### **Future Land Use**

Recommend to City Council approval of ordinance O-01-2024, to amend the Future Land Use of the property described therein from Mixed Use to Industrial

Recommend to City Council approval of ordinance O-02-2024, regarding a site-specific text amendment regarding the Future Land Use of the property described therein from Mixed Use to Industrial

- 1. Provide a comprehensive traffic study meeting the City Traffic Impact Analysis (TIA) for new development prior to approval of a subsequent development order.
- 2. Limit Uses within the amendment parcels to permitted uses in the M-1 Light Industrial Zoning Classification.



	FOR OFFICE USE ONLY
	Received Date
-	Application #:
-	Acceptance Date:
-	Review Date: SRDT P & Z CC

## Small Scale Future Land Use Map Amendment Application

A. PRO		
1.	Project Name: LLHE INDUSTRIAL REZONE	
2.	Address of Subject Property: 965 LEONARD C. TAYLOR PARK WAY	-
3.	Parcel ID Number(s): 38-06-26-016451-000-00	
4.	Existing Use of Property: INDUSTRIAL MANUFACTURING	
5.	Future Land Use Map Designation : THOUSTRIAL LAND USE / MIXED USE	~
6.	Existing Zoning Designation: COMMERCIAL WICH INTENSITY 62 GENERAL OF THE COMMERCIAL WILLIAM STEP STORES OF THE COMMERCIAL WILLIAM STEP STEP STORES OF THE COMMERCIAL WILLIAM STEP STEP STEP STEP STEP STEP STEP STEP	COMMERCIAL
7.	Proposed Future Land Use Map Designation: INDUSTRIAL (IND)	
8.	Acreage (must be 50 acres or less): 15	
B. APP		
1,	Applicant's Status	
2.	Name of Applicant(s) or Contact Person(s): PAVID SMITH Title: MANAGER	-
	Company (if applicable): LOUIS L. HUNTLEY ENTERPRISES, INC.	_
	Mailing address: 1890 KING-SLEY AVE. STE 102	_
	City: OKANGE PARK State: FL ZIP: 31073	
	Telephone: (104) 277 0435 e-mail: A-VAUGHN@ MMSEJAX.COM	
3.	If the applicant is agent for the property owner*	
0.	Name of Owner (title holder): 1011S WARD HUNTLEY	
	Mailing address: 1890 KINGSLEY AVE., STE. 102	_
	City: ORANGE PARK State: FL ZIP: 32073	_
	Telephone: (904) 631-0114 e-mail: JFFY JOE@ AOL. COM	
* 5.4	the state of the s	
	st provide executed Property Owner Affidavit authorizing the agent to act on behalf of the property owner.  ITIONAL INFORMATION	1000
	<ol> <li>Is there any additional contact for sale of, or options to purchase, the subject property?</li> <li>Yes</li> <li>No If yes, list names of all parties involved:</li> </ol>	
	If yes, is the contract/option contingent or absolute?  Contingent Absolute	

City of Green Cove Springs Development Services Department ♦321 Walnut Street♦ Green Cove Springs, FL 32043♦(904) 297-7500

#### D. ATTACHMENTS

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| I/We certify and acknowledge that the information containe knowledge:  Manual   d herein is true and correct to the best of my/our |
|---|--|
| Signature of Applicant  1/A v+1/2. Sact H   | Signature of Co-applicant                          |
| Typed or printed name and title of/applicant  | Typed or printed name of co-applicant              |
| Date  | Date   |
| State of FL County of C   | LAY  |
| The foregoing application is acknowledged before me this  | day of MAY, 20 <u>23,</u> by                       |
| as identification.  |  |
| NOTARY SEAL   | Don  |
| AMY V. DEWEY Commission # HH 247227 Expires June 11, 2026   | e of Notary Public, State of <u>FL</u>             |

City of Green Cove Springs Development Services Department \$321 Walnut Street Green Cove Springs, FL 32043 (904) 297-7500



FOR OFFICE USE ONLY	Ite	m # 4.
Received Date		
Application #:		
Acceptance Date:		
Review Date: SRDT P & Z CC		

# Small Scale Future Land Use Map Amendment Application

A. PRO	DJECT	
1.	Project Name: HUM INDUSTRIAL RETONE	
2.	Address of Subject Property: LEONARD C TAYLOR PKWY	
3.	Parcel ID Number(s): (A PORTION OF) 38-06-26-016451-003-00	
4.	Existing Use of Property: INDUSTRIAL MANUFACTURING AX16/29	
5.	Future Land Use Map Designation: ANDUSTRING (IND. USE MIXED USE	
6.	Existing Zoning Designation: CHI COMMERCIAL HIGH INTENSITY CZ GENERAL CO	COMMERCIAL
7.	Proposed Future Land Use Map Designation: NOVITRIAL (IND)	
8.	Acreage (must be 50 acres or less): 31+/- + 11+/- = 43.21	
B. APPI	PLICANT	
1.	Applicant's Status	
2.	Name of Applicant(s) or Contact Person(s): WARD HUNTLEY Title: OWNER	
	Company (if applicable):   NVESTMENTS	
	Mailing address: 1890 KINGSLEY AVE., STE. 102	
	City: ORANOE PARK State: 17 ZIP: 32073	
	Telephone: 404, 272-0435 e-mail: A. VAUGHNEMMSEJAX. COM	
3.	If the applicant is agent for the property owner*	
0.	Name of Owner (title holder):	
	Mailing address:	
	City: State: ZIP:	
	Telephone: (	
* Mu	ust provide executed Property Owner Affidavit authorizing the agent to act on behalf of the property owner.	
	DITIONAL INFORMATION	
	<ol> <li>Is there any additional contact for sale of, or options to purchase, the subject property?</li> <li>Yes</li> <li>No If yes, list names of all parties involved:</li> </ol>	
	If yes, is the contract/option contingent or absolute? ☐ Contingent ☐ Absolute	

City of Green Cove Springs Development Services Department \$321 Walnut Street Green Cove Springs, FL 32043 (904) 297-7500

Page 1 of 2

Revised 2/2/2022

#### D. ATTACHMENTS

- Statement of proposed change, including a map showing the proposed Future Land Use Map change and Future Land Use Map designations on surrounding properties
- 2. A map showing the zoning designations on surrounding properties
- 3. A current aerial map (Maybe obtained from the Clay County Property Appraiser.)
- 4. Legal description with tax parcel number.
- 5. Boundary survey
- 6. Warranty Deed or the other proof of ownership
- 7. Fee.
  - a. \$750, plus
  - b. All applications are subject 10% administrative fee and must pay the cost of postage, signs, advertisements and the fee for any outside consultants.

No application shall be accepted for processing until the required application fee is paid in full by the applicant. Any fees necessary for technical review or additional reviews of the application by a consultant will be billed to the applicant at the rate of the reviewing entity. The invoice shall be paid in full prior to any action of any kind on the development application.

All attachments are required for a complete application. A completeness review of the application will be conducted within five (5) business days of receipt. If the application is determined to be incomplete, the application will be returned to the applicant.

I/We certify and acknowledge that the information knowledge.	on contained herein is true and correct to the best of my/our	
Thethe		
Signature of Applicant	Signature of Co-applicant	
Ward Huntley		
Typed or printed name and title of applicant	Typed or printed name of co-applicant	
6-5-23		
Date	Date	
State of Co	ounty of Clay	
The foregoing application is acknowledged before me this		
as identification.		
NOTARY SEAL	alpholema	
AMY V. DEWEY Commission # HH 247227 Expires June 11, 2026	Signature of Notary Public, State of	

City of Green Cove Springs Development Services Department ♦321 Walnut Street♦ Green Cove Springs, FL 32043♦(904) 297-7500

#### **Site Specific Text Amendment**

Objective 1.8 The City shall adopt, as necessary, Future Land Use Map Amendments with

specific development conditions that are consistent with the City's adopted Level of Service (LOS) standards and Future Land Use Element, and compatible with the surrounding uses.

Policy 1.8.1: Future Land Use Map (FLUM) Amendment adopted by Ordinance Number O-01-2024 on XXX,XX, 2024 changes the future land use on the amendment area from Mixed Use to Industrial. Development shall meet the requirements of all applicable goals, objectives and policies of the Comprehensive Plan; however, the land use and development potential made available by the FLUM Amendment Ordinance O-01-2024 is hereby limited based on the following:

- Prior to the approval of a subsequent development order such as but not limited to a subdivision or site development plan, the property owner/developer must submit a developer's agreement addressing the following development requirements for the Amendment parcels that is currently owned by HLM Investments that is adjacent to SR 16 and US 17:
  - a) Address screening and buffering requirements between the Amendment parcels or portion thereof and the remaining portion of parcel 016451-0000 and SR 16 and US 17.
  - b) Address Building, site and streetscape design requirements for the Amendment parcels or portion thereof and the remaining portion of parcel 016451-0000 adjacent to SR 16 and US 17. These requirements shall include but are not limited to:
    - a. Block Standards
    - b. Building Placement
    - c. Building Typology and Massing
    - d. Building Frontage Design
    - e. Façade Articulation
    - f. Entrances
    - g. Building Materials
    - h. Lighting
    - i. Service Area and Mechanical Equipment Screening
    - j. Signage
- 2. Prior to approval of a subsequent development order, such as but not limited a zoning, subdivision or site development plan, the property owner/developer will be required to provide an Access Management Plan to address site access, the plan must be developed in cooperation with Florida Department of Transportation, Clay County and the City of Green Cove Springs. The Access Management Plan and traffic capacity plan shall be completed prior to the approval of a subsequent development order such as a Zoning, Subdivision or Site Development Plan for the Amendment Parcels that is currently owned by HLM Investments that is adjacent to SR 16 and US 17;

- 3. Limit uses on the Amendment Parcels by allowing M-1 Uses by right and M-2 uses as a special exception.
- 4. Property shall be rezoned to a Planned Unit Development (PUD). A conceptual plan and written description shall be included with the PUD submittal.



### STAFF REPORT

### CITY OF GREEN COVE SPRINGS, FLORIDA

TO: Planning and Zoning Commission MEETING DATE: January 23, 2024

FROM: Michael Daniels, AICP, Development Services Director

SUBJECT: Ordinance O-36-2023, Adding Street Walls as an alternative design standard in the

Gateway Corridor District as a special exception.

#### **BACKGROUND**

Staff is requesting an ordinance change to add street walls as an alternative design standard in the Gateway Corridor District. Currently the City requires that within the Gateway Corridor District which includes the Gateway Corridor Commercial, Neighborhood and Residential Districts, parking cannot be located between the primary building and the street frontage. As an alternative to this requirement, staff is proposing that the code be revised to allow a street wall to be placed at or near the property line between the street and parking area with specific design criteria designed to mask the parking areas as set forth in the ordinance. Examples of street walls are provided in the packet.

The Planning and Zoning Commission unanimously approved the proposed ordinance on 11/28/23.

At the 2<sup>nd</sup> City Council meeting on December 19, 2024, City Council voted to require the street wall ordinance be revised to be allowed as a special exception as opposed to a permitted use. As a result, the ordinance has been readvertised and brought back to the Planning and Zoning Commission for a recommendation.

#### **FISCAL IMPACT**

N/A

#### RECOMMENDATION

**Motion** to recommend approval of Ordinance O-36-2023, Adding Street Walls as an alternative design standard in the Gateway Corridor District as a special exception to City Council

# **ORDINANCE NO. 0-36-2023**

AN ORDINANCE OF THE CITY OF GREEN COVE SPRINGS, FLORIDA, AMENDING CHAPTER 117, SEC 117-656 GATEWAY CORRIDOR DESIGN GUIDELINES OF THE CITY CODE TO ALLOW FOR PARKING TO BE LOCATED BETWEEN THE STREET FRONT AND BUILDING LOCATION SUBJECT TO THE INSTALLATION OF A STREET WALL; PROVIDING FOR CONFLICTS, SEVERABILITY AND SETTING AN EFFECTIVE DATE.

WHEREAS, the City Code was adopted to promote the health, safety, morals and general welfare of the community; and

**WHEREAS**, the City Code should be evaluated on an ongoing basis to determine if the allowable uses are consistent with the Comprehensive Plan; and

WHEREAS, the City desires to promote development and redevelopment of the U.S. Highway 17 and S.R. 16 corridor; and

**WHEREAS**, due to the existing space limitations within the district and its close proximity to established residential neighborhoods, there needs to be flexibility in design to allow efficient use of the land.

**WHEREAS**, the Green Cove Springs City Council has determined that this amendment is consistent with the Comprehensive Plan, is in the best interest of the public, and will promote the public health, safety and welfare of the city.

# NOW, THEREFORE BE IT ENACTED BY THE CITY COUNCIL OF GREEN COVE SPRINGS, FLORIDA AS FOLLOWS:

Section 1. That Chapter 117, Sec. 117-656 shall be amended as follows:

# Sec. 117-656. Design guidelines.

Compliance with all land development regulations as adopted is required for all properties located within the corridor. In addition to the requirements of this Code, development in the gateway corridor zoning categories shall meet the following design guidelines:

- (1) Orient nonresidential uses to face the street with parking behind or to the sides of buildings or provide a street wall subject to the requirements set forth below:
  - a. Street walls are freestanding walls that are intended to mask parking areas from the street and shall have a minimum height of 3 feet and a maximum height of six feet (measured from the elevation of the public sidewalk). The portion of the street wall 3 feet and below shall be solid (e.g. brick and masonry or similar material). The portion of the street wall above 4 feet shall be transparent (e.g., wrought iron or similar material). Street walls shall have columns/posts (one foot by one foot minimum) spaced every 24 feet.
  - b. Street walls shall have openings no larger than necessary to allow automobile and/or pedestrian access.
  - c. Street walls shall not be permitted within the right-of-way.
  - d. Street walls shall be constructed of wrought iron, brick, masonry, stone, powder-coated aluminum, or other decorative materials that complement the finish on the primary building. Chain link, wood and PVC street walls/fences shall be prohibited.
  - e. The area in front of a street wall/fences shall include a landscaped strip pursuant to the requirements forth in Sec. 117-626 and Sec. 113-244(d)(3).
  - f. Street walls shall be with clear site line requirements set forth in Sec. 113-76.
- (2) In lieu of meeting onsite parking requirements, the developer may enter into an agreement with the city to reduce the required on-street parking. The reduction of on-street parking shall be approved if the developer agrees to improve the adjoining right-of-ways with landscaping and on-street parking or provides the city with funds to provide additional public parking.
- (3) No commercial access, except for ingress and egress for office uses, shall be allowed on residential streets or streets where residential future land use categories exist. This includes access for service vehicles.
- (4) Commercial land uses facing residential land uses or future land use categories must be residential in character, with residential elevations or facades.
- (5) Density controls for buildings with both residential and commercial permitted uses and/or permissible by special exception shall be based on the density controls for the building use on the first story of the structure.

(6) Improvements to offsite parking spaces to develop on-street parking shall be counted to meet the minimum parking requirements and to meet the minimum landscape area and pervious surface requirements.

- **Section 2.** <u>Conflicts</u>. If any portion of this Ordinance is in conflict with any other ordinance, then the provisions of this Ordinance shall govern.
- **Section 3.** Severability. If any section, sentence, clause or phrase of this Ordinance is held to be invalid or unconstitutional by any court of competent jurisdiction, then said holding shall in no way affect the validity of the remaining portions of this Ordinance.
- **Section 4.** <u>Effective Date.</u> Upon its adoption by the City Council, this ordinance shall become effective.

INTRODUCED AND APPROVED AS TO FORM ONLY ON THE FIRST READING BY THE CITY COUNCIL OF THE CITY OF GREEN COVE SPRINGS, FLORIDA, ON THIS 5<sup>th</sup> DAY OF DECEMBER 2023.

CITY OF GREEN COVE SPRINGS, FLORIDA

# PASSED ON SECOND AND FINAL READING BY THE CITY COUNCIL OF THE CITY OF GREEN COVE SPRINGS, FLORIDA, THIS 19th DAY OF DECEMBER 2023.

CITY OF GREEN COVE SPRINGS, FLORIDA

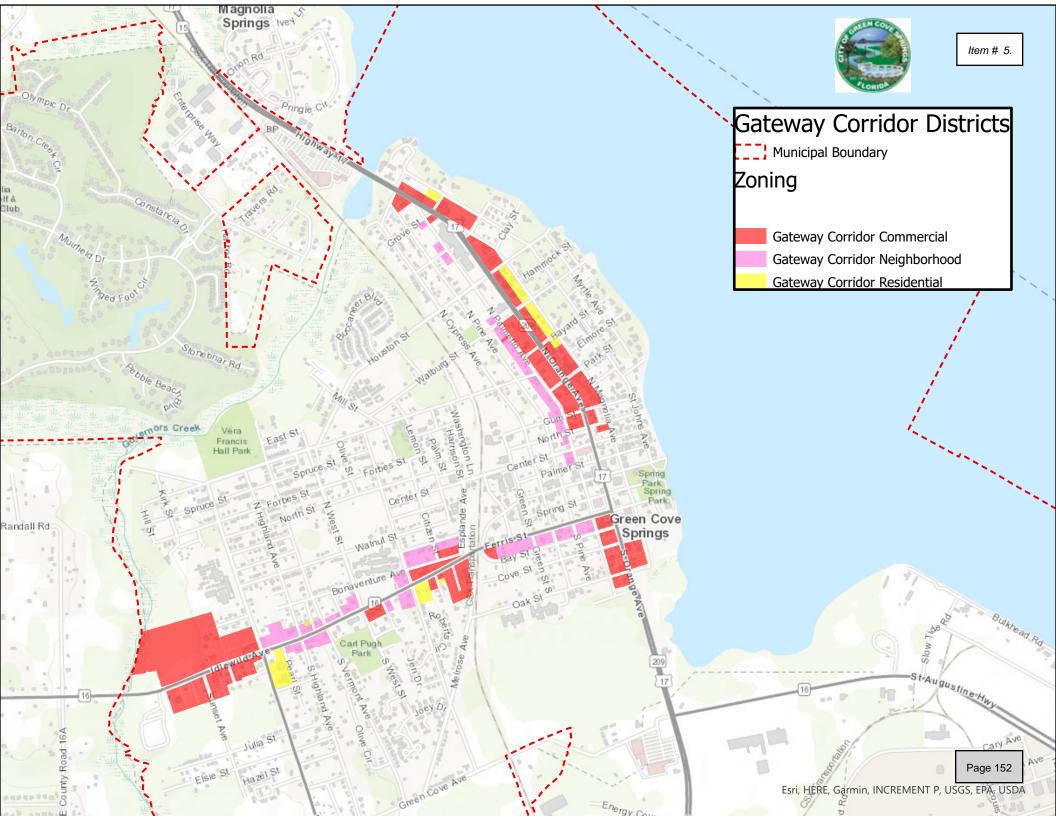
	Constance Butler, Mayor
ATTEST:	
TILDI.	
Erin West, City Clerk	_
APPROVED AS TO FORM:	
L. J. Arnold, III, City Attorney	-













# **STAFF REPORT**

# CITY OF GREEN COVE SPRINGS, FLORIDA

TO: Planning and Zoning Commission MEETING DATE: January 23, 2024

**FROM:** Michael Daniels, Planning and Zoning Director

**SUBJECT:** Review of Site Development application for The Vineyard Transitional Center located at

518 N Pine Ave

# PROPERTY DESCRIPTION

**APPLICANT:** True Vine Fellowship

OWNER: True Vine Fellowship

**PROPERTY LOCATION:** 518 N Pine Ave

**PARCEL NUMBER:** 017656-000-00 and 017659-000-00

FILE NUMBER: SPL-23-008

**CURRENT ZONING:** Institutional (INS)

FUTURE LAND USE DESIGNATION: Public

# **SURROUNDING LAND USE**

NORTH: FLU: Neighborhood SOUTH: FLU: CHI

**ZONING**: C-1 **Z**: C-2 **Use**: Single Family Residential **Use**: Church

**EAST:** FLU: Mixed Use (CMI) WEST: FLU: Mixed Use

**Z**: Gateway Corridor Neighborhood (GCN) **Z**: C-2

Use: Undeveloped Use: Undeveloped

# **BACKGROUND**

The applicant was approved for a Special Exception in November 2021 to have an emergency shelter pursuant to the requirements in City Code Sec. 117-796 with conditions.

#### DEVELOPMENT DESCRIPTION

The property consists of 0.433 acres and is vacant. The applicant proposes to build a 3,300 square foot transitional living facility with 6 beds and a 1,000 square foot office. There will be two restrooms available from the hallway for any guests to use.

#### **PARKING**

The plan shows 10 parking spaces plus 1 handicapped parking space. Per code they are required to have 6 parking spaces and 1 handicapped space.

### DRAINAGE RETENTION

Due to the size of the proposed development, the applicant's stormwater engineer has self-certified with the Florida Department of Environmental Protection, which is enclosed. That said, the applicant will provide a small retention pond in the rear of the property to ensure compliance with the City Comprehensive Plan requirements that post retention runoff shall be reduced from pre retention runoff.

# TRAFFIC AND ACCESS

Access will be provided off Pine Avenue. There will be minimal traffic to this location. As part of the site development, a 6' sidewalk shall be constructed from the property line to the southwestern side office building as well as from the parking lot to the northeastern side of the office building.

#### UTILITY CONNECTIONS AND SOLID WASTE

The buildings are connected to City Water and Sewer. The existing septic tanks on the site are not active and shall be removed. An on-site dumpster shall be provided.

#### LANDSCAPE PLAN

The plan is showing the installation of 3 new trees. The existing landscape buffer at the north and northwest property line shall be preserved and shall count towards meeting exterior landscaping requirements.

# COMPLIANCE WITH SEC. 117-796 – EMERGENCY SHELTERS

- (a) An emergency shelter shall be permitted in the Institutional Zoning District as a special exception, subject to the following provisions:
  - (1) A minimum of 300 square feet of private indoor living space shall be provided for each occupant of a structure.

At the time of building permit submittal, the applicant will have to provide a finalized floor plan showing compliance with this item.

- (2) Minimum parking requirements shall be as follows:
  - a. One parking space for each three beds; and

For 6 beds, they must have three parking spaces.

b. One parking space for each employee. There are four parking spaces available for employees.

There are 10 total parking spaces, two of which are required for the guests, leaving 8 spaces for employees, plus an ADA space.

(3) All structures shall meet the city building code requirements, life safety code requirements, and housing code requirements pertaining to the intended use.

# This will be determined at the time of building permit.

(4) If a license to operate the facility is required by federal, state or local law, the applicant must either be in possession of such a license to operate such a facility or be in the posture to receive a license. Under no circumstances will permits or occupational licenses be issued by any city department until such license is presented to the building official.

The applicant must receive a license pursuant to Florida Administrative Code (FAC) G2.002, to the best of staff knowledge, as well as passing requisite county health department inspections. Minimally, a business tax receipt and possibly a Certificate of Occupancy shall not be provided until such items are complete. A temporary Certificate of Occupancy could be provided up to the point in time assurance is received that the license has been issued.

(5) No emergency shelter shall be located within 1,000 feet of any other emergency shelter. The distance requirements between two emergency shelters shall be measured from property line to property line.

# No other emergency shelter exists in town at this time.

(6) The planning and zoning commission may place any reasonable special conditions, in addition to those provided in this subsection, on the special exception to ensure that the proposed use conforms with the character of the surrounding neighborhood; especially concerning: the prevailing dwelling unit density, the anticipated number of nonresident employees, lighting, service facilities, the background and history of the applicant/organization, approval can be limited to the owner/applicant, the type of activities and time limits regarding outdoor activities. In addition, the planning and zoning commission can evaluate and limit approval to the applicant/organization.

# The following conditions are required:

- 1. Approval of the Special Exception is limited to the applicant / owner: John Sanders/The Vineyard. Any transfer of ownership will require a new Special Exception application.
- 2. Post the responsible party contact information at a visible location in the front interior of both buildings.
- 3. The maximum number of transitional housing units shall be limited to 8 units.
- 4. All outdoor activities shall be limited to no later than 8:00 pm.
- (7) An emergency shelter shall adhere to all site plan requirements as per article IV of this chapter.

# The site development plan has been reviewed by staff and the outstanding comments are enclosed.

(8) This special exception shall be limited to the proposed applicant or owner to whom the special exception is granted and shall be subject to the requirements of this subsection. Any changes in ownership or to the use of the property will require a new special exception application.

# This requirement was a condition of the SE approval.

- (b) *Emergency shelter responsible party.* 
  - (1) The purpose of the responsible party is to respond to routine inspections, non-routine complaints, and other more immediate problems related to the emergency shelter of the property.
  - (2) The property owner shall serve in this capacity or shall otherwise designate in writing to the city an emergency shelter responsible party to act on the property owner's behalf. Any person 18 years of age or older may be so designated provided they can perform the duties listed in subsection (c).
  - (3) The duties of the emergency shelter responsible party, whether the party is a property owner or an agent, are to:
    - a. Be available at a listed phone number 24 hours a day, seven days a week and capable of legally handling any issues arising from the emergency shelter use;

- b. Ensure all tenants have undergone a police background check. Individuals found guilty of violent crimes are prohibited from being tenants in an emergency shelter regardless of the length of stay. Failure to comply with this requirement shall result in revocation of the business tax receipt;
- c. Ensuring sexual offenders/predators as defined in F.S. §§ 775.21, 943.0435, 944.607, or 985.4815 register at the Clay County Sheriff's Office and the Green Cove Springs Police Department, following the process set forth in F.S. § 775.21, 48 hours prior to arrival at an emergency shelter, regardless of the length of stay. The property owner or agent shall comply with F.S. § 775.215, as amended from time to time, pertaining to the distance separation of homes with a sexual offender/predator residing within the emergency shelter and any business, school, childcare facility, park, playground, or other places where children regularly congregate. Failure to comply with this requirement shall result in revocation of the business tax receipt.

The responsible party (John Sanders) will be noted in the Business Tax Receipt File and is in alignment with state requirements for licensing of the facility.

Attachments Include:

- 1. Special Exception Staff Report
- 2. Submitted Site Development Plan and Landscape Plan
- 3. Outstanding Staff Comments-Deficency Report

# STAFF RECOMMENDATION

Staff recommends approval of the proposed Site Development Plan on the condition that the site plan is revised to address the outstanding staff comments.

# **RECOMMENDED MOTIONS:**

### **Site Development Plan**

Motion to recommend approval of the Vineyard Transitional Center Site Development Plan on the condition that the site plan is revised to address the outstanding staff comments noted in the attached deficiency report.



FOR OFFICE USE ONLY		Item # 6.	
P Z File #			
Application Fee:			
Filing Date:Acceptance Date:			
Review Type: SRDT   P & Z   CC   CC			

6	City of	P Z File #		
51	Green Cove Springs	Application Fee:		
1	Count	Filing Date:Acceptance Date:		
Α.	Site Plan Application	Review Type: SRDT □ P & Z □ CC □		
		INTER		
1.	Project Name: VINEYARD TRANSITIONAL CE			
2.	Address of Subject Property: 518 NORTH PINE AV	<u> </u>		
3.	Parcel ID Number(s): 017656-000-00	05		
4.	Existing Use of Property: EMPTY BUILDING SPACE	GE		
5.	Future Land Use Map Designation : PUBLIC			
6.	Zoning Designation: INSTITUTIONAL			
7.	Acreage: 0.44			
3.	APPLICANT			
1.	Applicant's Status	<u> </u>		
<u>2</u> .	Name of Applicant(s) or Contact Person(s): JOHN SAND	DERSTitle:		
	Company (if applicable): THE VINEYARD TRANS	ITIONAL CENTER		
	Mailing address: PO BOX 523			
	City: GREEN COVE SPRINGS	State: FL ZIP: 32043		
	Telephone: () 904-305-4641 FAX: ()	e-mail: johnsanders5728@yahoo.com		
3.	If the applicant is agent for the property owner*:			
	Name of Owner (title holder):			
	Company (if applicable):			
	Mailing address:			
	City:	State:ZIP:		
	Telephone: () FAX: ()	e-mail:		
	* Must provide executed Property Owner Affidavit authorizing the	he agent to act on behalf of the property owner.		
è	ADDITIONAL INFORMATION			
	1. Is there any contract for sale of, or options to purchase the s	subject property?   Yes  No		
	If yes, list names of all parties involved:			
	If you is the contract/action continued or shoulded	☐ Contingent ☐ Absolute		
	If yes, is the contract/option contingent or absolute?	Li Contingent Li Absolute		

### D. ATTACHMENTS (One copy reduced to no greater than 11 x 17, plus one copy in PDF format)

- 1. Site Plan and Survey including but not limited to:
  - Name, location, owner, and designer of the proposed development.
  - b. Vicinity map indicating general location of the site and all abutting streets and properties.
  - d. Complete legal description.
  - e. Statement of Proposed Uses.
  - f. Location of the site in relation to adjacent properties, including the means of ingress and egress to such properties and any screening or buffers along adjacent properties.
  - g. Location of nearest fire hydrant, adjacent pedestrian sidewalks and bicycle paths.
  - h. Date, north arrow, and graphic scale (not to exceed one (1) inch equal to fifty (50) feet).
  - i. Area and dimensions of site.
  - j. Location of all property lines, existing right-of-way approaches, sidewalks, curbs, and gutters.
  - k. Access and points of connection to utilities (electric, potable water, sanitary sewer, gas, etc.).
  - m. Location and dimensions of all existing and proposed parking areas, loading areas, curb cuts.
  - Location and size of any lakes, ponds, canals, or other waters and waterways.
  - Structures and major features fully dimensioned including setbacks, distances between structures, floor area, width of driveways, parking spaces, proposed surface materials of driveways and parking areas, property or lot lines, and floor area ratio.
  - p. Required buffers.
  - Location of existing trees, identifying any trees to be removed.
  - r. Landscaping plan depicting type, size, and design of landscaped areas, buffers, and tree mitigation calculations.
  - s. Percent of pervious surface.
  - t. Lighting plan.
  - u. Location, design, height, and orientation of signs.
  - v. Location of dumpsters and detail of dumpster enclosure.
  - w. For development consisting of Multi-family residential;
    - Tabulation of gross acreage.
    - ii. Tabulation of density.
    - iii. Number of dwelling units proposed.
    - iv. Location and percent of total open space and recreation areas.
    - v. Floor area of dwelling units.
    - vi. Number of proposed parking spaces.
    - vii. Street layout.
- 2. Stormwater management plan including the following:
  - a. Existing contours at one (1) foot intervals.
  - b. Proposed finished floor elevation of each building site.
  - c. Existing and proposed stormwater management facilities with size and grades.
  - d. Proposed orderly disposal of surface water runoff.
  - e. Centerline elevations along adjacent streets.
- Legal description with tax parcel number.
- 4. Warranty Deed or other proof of ownership.
- 5. Permit or Letter of Exemption from the St. Johns River Water Management District.

City of Green Cove Springs Development Services Department ◆321 Walnut Street ◆ Green Cove Springs, FL 32043♦(904) 297-7500

#### 6. Fee.

- a. Based on size of site:
  - i. For sites <10,000 s.f. \$500
  - ii. For sites >10,000 s.f.- \$1,000 + \$20 per acre
- b. All applications are subject 10% administrative fee and must pay the cost of any outside consultants' fees.

No application shall be accepted for processing until the required application fee is paid in full by the applicant. Any fees necessary for technical review or additional reviews of the application by a consultant will be billed to the applicant at the rate of the reviewing entity. The invoice shall be paid in full prior to any action of any kind on the development application.

All 6 attachments are required for a complete application. A completeness review of the application will be conducted within five (5) business days of receipt. If the application is determined to be incomplete, the application will be returned to the applicant.

Signature of Applicant	Signature of Co-applicant
John Vander Dik	
Typed or printed name and title of applicant  28 2023	Typed or printed name of co-applicant
Date	Date
State of Florida County of	Clay
The foregoing application is acknowledged before me this _	28 day of December, 2023 by John
Sandors, who is/are personally known to me, o	or who has/have produced FLIDL
as identification.	a Line Con Q
NOTARY SEAL	Julia Election
JULIA ENNIS	ture of Notary Public, State of Florida

# SITE IMPROVEMENTS

**FOR** 

# VINEYARD TRANSITIONAL CENTER

518 PINE AVE. N., GREEN COVE SPRINGS, FL 32043

**CLAY COUNTY** 

PROJECT OWNER AND CONSULTANTS Vinevard Transitional Center

John Sanders

518 Pine Avenue North

Green Cove Springs, FL 32043

TEL: 904-305-4641

SURVEYOR: Eiland and Associates, Inc

OWNER:

Harold Eiland

615 Blanding Boulevard Orange Park, FL 32073 TEL: (904) 272-1000

**ENGINEER:** Tocoi Engineering, LLC

Charles Sohm, P.E. 714 North Orange Avenue Green Cove Springs, FL 32043

TEL: 904-215-1388

TE JOB NO: 20-367





**LOCATION MAP** 



714 NORTH ORANGE AVENUE, GREEN COVE SPRINGS, FL 32043 E.B. NUMBER: 26383 PH: 904-215-1388 "TURNING YOUR IDEAS INTO REALITY" www.tocoi.com

October 18, 2023

#### SPECIAL EXCEPTIONS GRANTED ON 09/28/2021 BY P ZONING COMMISSION.

#### CONDITIONS:

- A. APPROVAL OF SPECIAL EXCEPTION IS LIMITED TO THE APPLICANT / OWNER: JOHN SANDERS/THE VINEYARD. ANY TRANSFER OF OWNERSHIP WILL REQUIRE A NEW SPECIAL EXCEPTION APPLICATION
- THE MAXIMUM NUMBER TRANSITIONAL HOUSING UNITS SHALL BE LIMITED TO 8 UNITS.
- ALL OUTDOOR ACTIVITIES SHALL BE LIMITED TO NO LATER THAN 8:00 PM
- APPROVAL OF THE SPECIAL EXCEPTION IS THE CONTINGENT UPON THE APPROVAL OF THE FUTURE LAND USE AND ZONING AMENDMENTS BY CITY COUNCIL.

# INDEX OF DRAWINGS

- **COVER SHEET**
- **GENERAL NOTES**
- **EXISTING GROUND**
- **EXISTING DRAINAGE MAP**
- PROPOSED DRAINAGE MAP
- **DEMOLITION PLAN**
- **GEOMETRY PLAN**
- **GRADING & DRAINAGE PLAN**
- DRAINAGE DETAILS
- 10 **EROSION CONTROL DETAILS**
- UTILITY PLAN 11
- **UTILITY DETAILS**
- SIGNAGE & PAVEMENT MARKING PLAN
- FIRE SUPPRESSION DETAILS
- MISCELLANEOUS DETAILS
- SWPP CONTRACTOR REQUIREMENTS
- SWPP CONTRACTOR CERTIFICATION
- PHOTOMETRIC PLAN
- LANDSCAPE PLAN

Charles Sohm, PE Date: 2023.10.18

Digitally signed by Charles Sohm, PE

CHARLES SOHM, P.E. FLA. REGISTERED ENGINEER, #79289

# **GENERAL NOTES:**

- 1. ALL WORK AND MATERIALS SHALL BE IN COMPLETE ACCORDANCE WITH ALL RELATIVE SECTIONS OF THE CITY OF GREEN COVE SPRINGS (G.C.S.) & GREEN COVE SPRINGS PUBLIC WORKS (G.C.S.P.W.) STANDARDS, (LATEST REVISION) AND ALL CURRENT CITY & G.C.S.P.W. DETAILS AS WELL AS ALL APPLICABLE STATE AND LOCAL REGULATIONS. THE WORK SHALL ALSO BE PERFORMED AND TESTED IN ACCORDANCE WITH THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL INVESTIGATION REPORT PROVIDED BY JACKSON GEOTECHNICAL ENGINEERING, LLC PROJECT No. 23-414.1. IF MORE STRINGENT THAN CITY OF G.C.S. REQUIREMENTS.
- 2. ALL WORK SHALL BE PERFORMED IN A SAFE MANNER. ALL SAFETY RULES AND GUIDELINES OF O.S.H.A. SHALL BE FOLLOWED. THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ANY INJURIES OF HIS EMPLOYEES, AND ANY DAMAGE TO PRIVATE PROPERTY OR PERSONS DURING THE COURSE OF THIS PROJECT. ALL COSTS ASSOCIATED WITH COMPLYING WITH O.S.H.A. REGULATIONS AND THE FLORIDA TRENCH SAFETY ACT MUST BE INCLUDED IN THE CONTRACTORS BID.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE JOB SITE PRIOR TO PREPARING THE BID FOR THE PURPOSE OF FAMILIARIZING HIMSELF WITH THE NATURE AND THE EXTENT OF THE WORK AND LOCAL CONDITIONS, EITHER SURFACE OR SUBSURFACE, WHICH MAY AFFECT THE WORK TO BE PERFORMED, AND THE EQUIPMENT, LABOR AND MATERIALS REQUIRED. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF COMPLETE PERFORMANCE UNDER THIS CONTRACT. THE CONTRACTOR IS ALSO URGED TO TAKE COLOR PHOTOGRAPHS ALONG THE ROUTE OF THE PROJECT TO RECORD EXISTING CONDITIONS PRIOR TO CONSTRUCTION, AND TO AID IN RESOLVING POSSIBLE FUTURE COMPLAINTS THAT MAY OCCUR DUE TO THE CONSTRUCTION OF THE PROJECT.
- 4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EITHER CONDUCT ANY FIELD EXPLORATION OR ACQUIRE ANY GEOTECHNICAL ASSISTANCE REQUIRED TO ESTIMATE THE AMOUNT OF UNSUITABLE MATERIAL THAT WILL REQUIRE REMOVAL AND/OR TO ESTIMATE THE AMOUNT OF OFF SITE BORROW THAT WILL BE REQUIRED.
- 5. ALL IMPROVEMENTS SHOWN ARE TO BE WARRANTED BY THE CONTRACTOR TO THE DEVELOPER AND CITY OF G.C.S. FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY THE OWNER AND CITY OF G.C.S.
- 6. ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929 (N.G.V.D.) UNITED STATES COASTAL AND GEODETIC SURVEY (U.S.C. & G.S.), AS DETERMINED BY EILAND AND ASSOCIATES, INC.
- 7. FOR BOUNDARY, ROADWAY AND LOT GEOMETRY INFORMATION SEE PLAT.
- 8. THE CONTRACTOR WILL CONTRACT WITH AN INDEPENDENT TESTING LABORATORY TO PERFORM MATERIAL TESTING AND SOIL TESTING IN ACCORDANCE WITH CITY OF G.C.S. AND/OR G.C.S.P.W. REQUIREMENTS. THIS SHALL INCLUDE DENSITY TESTS IN ALL PAVEMENT AREAS AND IN ALL UTILITY TRENCHES LOCATED IN PAVEMENT AREAS CONCRETE TESTING AND ALL OTHER MATERIAL TESTING. PRIOR TO LIMEROCK PLACEMENT, THE PROJECT GEOTECHNICAL ENGINEER SHALL MAKE RECOMMENDATION FOR UNDER DRAIN PLACEMENT.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE REQUIRED FOR THE PROJECT INCLUDING CITY RIGHT-OF-WAY PERMITS FOR WORK IN CITY OF G.C.S. RIGHT-OF-WAY OR EASEMENT.
- 10. THE CONTRACTOR SHALL COORDINATE THE WORK WITHIN CITY OF G.C.S. OR STATE RIGHT-OF-WAY WITH THE PROPER AGENCIES FOR MAINTENANCE OF TRAFFIC AND METHOD OF CONSTRUCTION AND REPAIR.
- 11. ALL PUBLIC DRAINAGE EASEMENTS SHALL BE "UNOBSTRUCTED" EASEMENTS. ALL "UNOBSTRUCTED" EASEMENTS TO BE CLEAR AND DRIVEABLE.
- 12. "AS-BUILT" DRAWINGS AS-BUILTS TO CITY OF G.C.S. AND THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT ARE REQUIRED TO BE SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR THEREFORE, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTRACT WITH A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA FOR THE PREPARATION, FIELD LOCATIONS, CERTIFICATION AND SUBMITTAL OF "AS-BUILT" DRAWINGS IN ACCORDANCE WITH CURRENT CITY OF G.C.S. & G.C.S.P.W. STANDARDS AND SPECIFICATIONS AND SJRWMD REGULATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROCESS THE "AS-BUILT" DRAWINGS FOR APPROVAL BY CITY OF
- 13. THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION WITH ALL OTHER CONTRACTORS. IN THE EVENT OF ANY CONFLICT WHATSOEVER, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION.
- 14. ALL CLEARING AND GRUBBING REQUIRED FOR ALL ROADWAY, UTILITIES, DITCHES, AND BERMS INCLUDED IN THIS PROJECT AND THE CLEARING AND GRUBBING OF ALL RIGHT-OF-WAY OR EASEMENTS SHALL BE CONSIDERED AS PART OF THE PROJECT.
- 15. ALL AREAS SHOWN TO BE FILLED SHALL BE CLEARED AND GRUBBED IN ACCORDANCE WITH CITY OF G.C.S. STANDARDS AND SHALL BE FILLED WITH CLEAN STRUCTURAL FILL COMPACTED AND TESTED IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION REPORT.
- 16. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL SURVEY AND PROPERTY MONUMENTS. IF A MONUMENT IS DISTURBED, THE CONTRACTOR SHALL CONTRACT WITH THE SURVEYOR OF RECORD FOR REINSTALLATION OF THE MONUMENT.
- 17. ALL DEBRIS RESULTING FROM ALL ACTIVITIES SHALL BE DISPOSED OF OFF-SITE BY CONTRACTOR.
- 18. ALL EXCESS SUITABLE AND UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR UNLESS DIRECTED OTHERWISE BY ENGINEER OR OWNER.
- 19. ALL EXISTING TREES TO REMAIN SHALL BE PRESERVED AND PROTECTED.
- 20. BURNING OF TREES, BRUSH AND OTHER MATERIAL SHALL BE APPROVED, PERMITTED AND COORDINATED WITH CITY OF G.C.S. FIRE MARSHAL.

- 21. ROADWAY UNDER DRAINS SHALL BE AS REQUIRED ON THE PLANS OR AS MAY BE DETERMINED NECESSARY BY THE GEOTECHNICAL ENGINEER DURING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF HIGH GROUND WATER CONDITIONS ARE PRESENT DURING THE PREPARATION OF THE ROADWAY SUB-BASE. CITY OF G.C.S. WILL RESERVE THE RIGHT TO REQUEST ADDITIONAL UNDER DRAIN AS DEEMED NECESSARY. PEPPPESFORTATIVE
- 22. CONTRACTOR SHALL PROVIDE CONTRACTION JOINTS AT 10' INTERVALS AND EXPANSION JOINTS SHALL BE CONSTRUCTED AT 50' INTERVALS AND AT ALL RADIUS POINTS ON ALL CURBING.
- 23. CONTRACTOR SHALL PROVIDE EXPANSION JOINTS AT 18' INTERVALS AND CONTRACTION JOINTS SHALL BE SPACED AT 6' INTERVALS BETWEEN EXPANSION JOINTS.
- 24. MAINTENANCE OF TRAFFIC SHALL CONFORM TO F.D.O.T. STANDARD INDEX 600, LATEST EDITION.
- 25. ALL SIGNING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH F.D.O.T. STANDARD INDEXES 11860, 17346, AND 17352.
- 26. WHERE RCP IS CALLED OUT IN THE PLANS CONTRACTOR MAY SPECIFY RCP, OR HDPE FOR APPROVAL BY ENGINEER OF RECORD.
- 27. ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE PROPOSED ROADWAY/SITE DEVELOPMENT SHALL BE REMOVED BY THE CONTRACTOR UTILIZING THE HYDRO-BLASTING METHOD.

#### **UTILITY NOTES:**

- 1. THE LOCATION OF ALL EXISTING UTILITIES, STRUCTURES AND IMPROVEMENTS SHOWN ON THE DRAWINGS IS BASED ON LIMITED INFORMATION AND MAY NOT HAVE BEEN VERIFIED. THE LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL NOTIFY RESPECTIVE UTILITY OWNERS AND FIELD VERIFY LOCATIONS OF EXISTING UTILITIES AND OTHER IMPROVEMENTS PRIOR TO COMMENCING ANY CONSTRUCTION. IF THE LOCATIONS SHOWN ARE CONTRACT TO THE ACTUAL LOCATIONS, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF THE DISCREPANCY. THIS DISCREPANCY SHOULD BE RESOLVED PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING IN AREAS NEAR EXISTING UTILITIES AND IMPROVEMENTS AND SHALL BE RESPONSIBLE FOR AND SHALL REPAIR OR PAY FOR ALL DAMAGE MADE TO EXISTING UTILITIES OR OTHER IMPROVEMENTS. PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL GRADES, INVERTS AND TYPE OF MATERIAL OF EXISTING UTILITIES TO WHICH HE SHALL CONNECT.
- 2. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL MATERIALS, IF REQUIRED, TO THE ENGINEER FOR REVIEW AND APPROVAL, PRIOR TO SUBMITTAL TO CITY OF G.C.S. & G.C.S.P.W., AND PRIOR TO PURCHASE OR CONSTRUCTION OF ANY UTILITY PIPE OR STRUCTURE.
- 3. ALL PIPE LENGTHS ARE SCALED DIMENSIONS. ALL DRAINAGE STRUCTURES SHALL BE CONSTRUCTED TO CONFORM WITH CITY OF G.C.S. REQUIREMENTS AND SHALL BE CONSTRUCTED TO CONFORM WITH CURBING, PROPERTY LINES AND LOW POINTS AS SHOWN ON THE PLANS.
- 4. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEAN AND FUNCTIONING PROPERLY AT TIME OF ACCEPTANCE.
- 5. ALL DRAINAGE STRUCTURES TO HAVE TRAFFIC BEARING GRATES.
- 6. ALL DRAINAGE PIPE JOINTS IN CITY OF G.C.S. DRAINAGE EASEMENTS, DRAINAGE EASEMENTS BETWEEN PRIVATE LOTS, DRAINAGE RIGHT-OF-WAYS AND UNDER PAVED ROADS ARE TO BE FILTER-WRAPPED.
- 7. ALL INVERTS IN DRAINAGE STRUCTURES TO BE PRE CAST OR BRICK WITH LAYER OF MORTAR BETWEEN EACH LAYER OF BRICK, OR REDDI-MIX CONCRETE WITH #57 STONE.
- 8. UNSUITABLE MATERIALS UNDER WATER, SEWER PIPE, STORM PIPE OR STRUCTURES SHALL BE REMOVED AND REPLACED WITH SELECTED BACKFILL, PROPERLY COMPACTED.
- ALL UNDERGROUND UTILITIES MUST BE INSTALLED PRIOR TO PREPARATION OF SUB GRADE FOR PAVEMENT.
- 10. ALL WATER AND SEWER CONSTRUCTION WITHIN CITY OF G.C.S. SHALL BE ACCOMPLISHED BY AN UNDERGROUND UTILITY CONTRACTOR LICENSED UNDER THE PROVISIONS OF CHAPTER 489 FLORIDA STATUTES.
- 11. CONTRACTOR SHALL PROVIDE, TO THE ENGINEER, A SCHEDULE OF INVERT ELEVATIONS OF ALL SANITARY MANHOLES & DRAINAGE STRUCTURES PRIOR TO THE PLACEMENT OF THE LIME ROCK BASE COURSE. THIS SCHEDULE TO BE PROVIDED BY THE REGISTERED LAND SURVEYOR SUBMITTING THE "AS BUILT" DRAWINGS FOR THIS PROJECT.
- 12. WATER AND SEWER LINES ARE DESIGNATED TO FINISHED GRADES AND SHALL BE PROTECTED UNTIL FINISHED WORK IS COMPLETE. HORIZONTAL SEPARATION BETWEEN WATER MAINS, VALVES, FITTINGS AND SANITARY OR STORM SEWER SHALL BE A MINIMUM OF 10 FEET OR IN ACCORDANCE WITH THE F.D.E.P. REGULATIONS AND G.C.S.P.W. STANDARD DETAILS.
- 14. ALL WATER LINE CROSSINGS SHALL HAVE A FULL LENGTH OF PIPE CENTERED OVER THE EXISTING UTILITY MAIN TO PROVIDE MAXIMUM JOINT SPACING AT CROSSINGS. WATER MAINS CROSSING SANITARY AND STORM SEWER LINES, AS WELL AS VALVES AND FITTINGS, MUST HAVE A MINIMUM 18" VERTICAL SEPARATION. IF THIS SEPARATION CANNOT BE OBTAINED, THE WATER MAIN MUST BE CONSTRUCTED OF DUCTILE IRON PIPE FOR A DISTANCE OF 10' EITHER SIDE OF THE SANITARY OR STORM SEWER MAIN, OR INSTALL WATER MAIN IN D.I. SLEEVE MIN. LENGTH 20' CENTERED, ENDS OF SLEEVE TO BE GROUT FILLED, IN EITHER CASE, MINIMUM OF 6" OF VERTICAL SEPARATION SHALL BE MAINTAINED.
- 15. MECHANICAL RESTRAINING DEVICES ARE REQUIRED IN ACCORDANCE WITH UTILITY COMPANY STANDARDS WHERE WATER MAINS ARE TERMINATED AND AT ALL BENDS AND TEES.
- 16. ALL ELECTRIC CONDUIT WORK SHALL BE COMPLETED PRIOR TO THE PRESSURE TESTING OF WATER AND SEWAGE FORCE MAINS.

17. TELEVISION INSPECTION SHALL BE REQUIRED ON ALL GRAVITY SEWER MAINS. THIS SERVICE SHALL BE PROVIDED BY THE CONTRACTOR AS PART OF THE SANITARY SEWER CONTRACT. A FULL WRITTEN REPORT AS TO THE CONDITION OF THE PIPE WITH PERTINENT DATA SUCH AS DISTANCE BETWEEN MANHOLES, LOCATION OF SERVICES, ETC. SHALL BE SUBMITTED TO THE OWNER AND ENGINEER PRIOR TO ACCEPTANCE, AND ONE COPY OF THE VIDEO TAPE SHALL BE SUBMITTED TO CITY OF G.C.S.. ALL DEFECTIVE AREAS AND ITEMS SHALL BE REPLACED OR REPAIRED PRIOR TO FINAL ACCEPTANCE. ALL REPAIRED SECTIONS MUST BE REINSPECTED PRIOR TO ACCEPTANCE.

18. ALL NEW AND/OR RELOCATED WATER MAIN PIPES AND FITTINGS SHALL NOT CONTAIN MORE THAN EIGHT PERCENT LEAD AND ALL PACKING AND JOINT MATERIALS USED IN THE JOINTS SHALL CONFORM WITH ALL APPLICABLE AWWA STANDARDS. ALL NEW AND/OR RELOCATED WATER SERVICES AND PLUMBING SHALL CONTAIN NO MORE THAN EIGHT PERCENT LEAD AND ALL SOLDERS AND FLUX SHALL CONTAIN NO MORE THAN 0.2 PERCENT LEAD.

19. IF SOLVENT CONTAMINATION IS FOUND IN THE PIPE TRENCH, WORK SHALL BE STOPPED AND THE PROPER AUTHORITIES NOTIFIED. WITH APPROVAL OF THE PERMITTING AGENCY, DUCTILE FITTINGS AND SOLVENT RESISTANT GASKET MATERIAL SHALL BE USED IN THE CONTAMINATED AREA. THE DUCTILE IRON PIPE SHALL EXTEND AT LEAST 100 FEET BEYOND ANY SOLVENT NOTED.

Engineering, Le, GREN COVE SPRINGS, FL 32043 SITE IMPROVEMENTS FOR VINEYARD TRANSITIONAL CENTER REVISIONS

Item # 6.

PLOT DATE:

DRAWN BY:
DESINGED BY:
CHECKED BY:
SCALE:
JOB NO.:
SHEET NO.

#### **CITY GENERAL REQUIREMENTS:**

- 1. CITY OF G.C.S. DEPARTMENT OF ENGINEERING REQUIRES TWENTY—FOUR (24) HOUR NOTICE ON ALL MEETINGS AND OR TESTING MEASURES RELATED TO SAID PROJECT.
- 2. CONSTRUCTION WARNING SIGNS ARE TO BE POST MOUNTED AND ERECTED BEFORE CONSTRUCTION CAN COMMENCE. THESE AND ALL TRAFFIC CONTROL DEVICES SHALL FOLLOW THE STANDARDS SET FORTH BY THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS WELL AS THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD INDEXES.
- 3. ALL SUB BASE SHALL BE FIRM AND UNYIELDING.
- 4. ALL JOINTS OF PIPE, REGARDLESS OF MATERIAL TYPE, SHALL BE WRAPPED WITH FABRIC FILTER CLOTH PER FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD INDEX 280.
- 5. ALL DISTURBED CITY OF G.C.S. RIGHTS—OF—WAY SHALL BE SODDED TO THE DISCRETION AND APPROVAL OF THE CITY OF G.C.S. ENGINEERING DEPARTMENT.
- 6. THE CURB SHALL BE CHECKED FOR FLOW DESIGN AT ANY STAGE OF THE PROJECT. A WATER TRUCK IS TO BE PROVIDED AT THE FINAL INSPECTION IN ORDER TO CHECK FLOW DESIGN.
- 7. ALL UNDER DRAIN LINES SHALL HAVE A FORTY—FIVE DEGREE CLEAN OUT AT TWO HUNDRED FOOT (200') INTERVALS AND AT THE END OF THE RUN. THE CURB SHALL BE MARKED WITH TEAL OR HUNTER GREEN PAINT AS TO THE LOCATION OF THE CLEAN OUT.
- 8. HANDICAP RAMPS SHALL BE INSTALLED WHEREVER THE SIDEWALK MEETS THE CURB.
- 9. ALL INFORMATION REQUESTED BY THE CITY SHALL BE IN HAND AT THE TIME OF THE FINAL INSPECTION. NO CONDITIONAL CERTIFICATES OF OCCUPANCY SHALL BE GIVEN.
- 10. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO EXCAVATION AND TAKE ALL MEASURES NECESSARY TO PROTECT UTILITIES DURING CONSTRUCTION. SHOULD ANY UTILITY LINE OR COMPONENT BECOME DAMAGED OR REQUIRE RELOCATION THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE RESPONSIBLE UTILITY COMPANY, THE ENGINEER, AND THE CITY.
- 11. ALL SWALE SECTIONS ARE TO BE SODDED.
- 12. ALL DEVELOPER OR CONTRACTOR INSTALLED SIDEWALKS SHALL BE INSTALLED PRIOR TO THE FINAL INSPECTION.
- 13. A COPY OF THE CONTRACTORS' GENERAL LICENSE AND OR UNDER GROUND UTILITY LICENSE SHALL BE PROVIDED AT THE TIME OF THE PRE-CONSTRUCTION CONFERENCE.
- 14. ANY APPLICABLE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT (SJRWMD) OR FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) PERMITS SHALL BE PROVIDED TO THE CITY BY THE PRE-CONSTRUCTION CONFERENCE. NO WORK SHALL BEGIN WITHOUT ALL APPLICABLE PERMITS ON FILE
- 15. THE CONTRACTOR MUST OBTAIN APPROVAL FROM THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT (SJRWMD) BEFORE THE CITY WILL ACCEPT THE PROJECT.
- 16. THERE SHALL BE A MINIMUM THREE (3) DAYS NOTICE GIVEN FOR SCHEDULING THE FINAL INSPECTION.
- 17. AT THE FINAL INSPECTION, A LETTER OF COMPLIANCE, PROVIDED BY THE CITY, WILL NEED TO BE FILLED OUT AND SIGNED THE STATE OF FLORIDA REGISTERED PROFESSIONAL ENGINEER OF RECORD.
- 18. FIVE (5) DAYS PRIOR TO THE FINAL INSPECTION TWO (2) SETS OF BLUE LINE AS-BUILTS AND ONE (1) COPY ON DISK IN AUTOCAD FORMAT SHOWING THE FOLLOWING SHALL BE SUBMITTED:

# CITY EROSION CONTROL NOTES:

- 19. PURSUANT TO COMPREHENSIVE PLAN POLICY 9:1 OF THE CONSERVATION ELEMENT, THE USE OF ONE OR MORE EROSION CONTROL MEASURES, AS REQUESTED BY THE CITY OF G.C.S. ENGINEERING DEPARTMENT, SHALL BE USED DURING CONSTRUCTION. THESE WILL BE, BUT NOT LIMITED TO, ITEMS SUCH AS TEMPORARY GRASS COVER, SEDIMENT BASINS OR PONDS, MULCHING, TEMPORARY FENCES, DIVERSION CHANNELS AND HAY BALES.
- 20. PURSUANT TO COMPREHENSIVE PLAN POLICY 9:1 OF THE CONSERVATION ELEMENT, SCHEDULING OF CONSTRUCTION SHALL BE GIVEN SPECIAL CONSIDERATION TO MINIMIZE EXPOSURE OF BARE SOIL. THE CONTRACTOR WILL FORMULATE A CONSTRUCTION SCHEDULE TO BE GIVEN TO THE CITY REPRESENTATIVE.
- 21. THE CONTRACTOR SHALL CHECK EACH DAY TO INSURE THAT ALL EROSION CONTROL DEVICES ARE IN PLACE AND WORKING PROPERLY.
- 22. ALL EROSION CONTROL MEASURES SHALL BE IN COMPLIANCE WITH THE RULES, REGULATION AND STANDARDS OF THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT (SJRWMD), THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) AND THE UNITED STATES ARMY CORP OF ENGINEERS.
- 23. THE CONTRACTOR SHALL TAKE WHATEVER MEANS NECESSARY TO PREVENT THE EROSION OF SOIL AND DEPOSITION OF SEDIMENT ON ADJACENT AND DOWNSTREAM PROPERTIES.
- 24. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO CONSTRUCTION.

#### CITY PUBLIC SAFETY NOTES:

25. BLUE, ALL-DIRECTIONAL HIGHWAY-STYLE REFLECTIVE MARKERS SHALL BE PROVIDED ON ALL ROADWAYS, ALLEYS, ACCESS ROADS AND ALL PAVED AREA IN FRONT OF EACH HYDRANT. SAID MARKERS SHALL BE LOCATED IN THE LANE OF TRAVEL ON THE SAME SIDE AS THE HYDRANT. THESE MARKERS SHALL BE IN PLACE AT THE TIME OF FINAL INSPECTION OR APPROVAL.

- 26. A DISK SHALL BE PROVIDED, IN AUTOCAD FORMAT, SHOWING THE LOCATION OF ALL FIRE HYDRANTS BEFORE FINAL APPROVAL. PAVING. DRAINAGE AND CONSTRUCTION NOTES:
- 27. ALL UNSUITABLE MATERIAL SHALL BE REMOVED TWO FEET (2') BEYOND THE BACK OF CURB AND TWO FEET (2') BELOW FINISHED GRADE.
- 28. COMPACTION DENSITIES FOR ALL ROADWAY CROSSINGS ARE TO BE TAKEN IN ONE-FOOT (1') LIFTS. STORM SEWER PIPE DENSITIES WILL START AT THE HAUNCHES OF THE PIPE AND BE TAKEN EVERY 6" UNTIL IT HAS REACHED 1' ABOVE THE PIPE.
- 29. IF UNSUITABLE MATERIAL IS FOUND WITHIN THE LIMITS OF THE ROAD OR IF MATERIAL IS HAULED IN FOR ROADWAY FILL AT A DEPTH GREATER THAN ONE—FOOT (1') THEN THE ENTIRE ROADWAY SHALL BE UNDER DRAINED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND INSTALLED PER THE APPROVED CITY OF G.C.S. DETAIL.
- 30. ALL STORM SEWER PIPES SHALL BE CUT FLUSH WITH THE INTERIOR WALL OF ANY TYPE MANHOLE OR CURB AND DITCH BOTTOM INLETS.
- 31. COMPACTION DENSITY TESTS FOR ALL WATER AND SEWER CROSSINGS WILL START THREE FEET (3') ABOVE THE PIPE.
- 32. COMPACTION DENSITY TESTS FOR ALL WATER AND SEWER CROSSINGS WILL START AT THE SPRING LINE OF THE PIPE.
- 33. IF THE APPROVED DESIGN REQUIRED THE INLET OR STORM RUN TO BE SURCHARGED, ALL INLETS SHALL BE INSPECTED BEFORE BEING EXPOSED TO THE SYSTEM.
- 34. TEST CYLINDERS SHALL RUN FOR ALL CONCRETE STRUCTURES. THERE WILL BE THREE (3) TESTS PER EACH DAY POUR WITH ONE (1) AT SEVEN (7) DAY BREAK, AND TWO (2) TWENTY-EIGHT (28) DAY BREAKS.
- 35. THE ASPHALT SHALL BE CORED FOR THICKNESS AND WILL BE GIVEN A ONE-QUARTER INCH (1/4") TOLERANCE. IF HOWEVER THE CITY'S REPRESENTATIVE IS PRESENT AT POUR AND FEELS COMFORTABLE WITH THE REQUIREMENTS THEN HE OR SHE MAY WAVE THIS POLICY.
- 36. LBR'S FOR SUBGRADE AT FORTY (40) AND LIME ROCK OR ALTERNATIVE BASE COURSE AT ONE HUNDRED (100). THERE WILL BE NO UNDER TOLERANCE.
- 37. ALL MATERIAL USED FOR BACK FILL SHALL BE SAND (A3) FREE DRAINING.
- 38. THERE ARE TO BE NO OPENED TRENCHES AT DAY'S END.
- 39. ALL DIRT AND DEBRIS TRACKED OUT OF THE PROJECT SHALL BE CLEANED DAILY AND TO THE DISCRETION OF THE CITY OF G.C.S. ENGINEERING DEPARTMENT.

#### SIGNING AND PAVEMENT MARKING NOTES:

- 40. ALL SIGNS MUST MEET THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARDS FOR ENGINEERING GRADE SIGN FACES IN REFLECTIVITY.
- 41. ALL FINAL PAVEMENT MARKINGS WITHIN THE RIGHTS-OF-WAY SHALL BE THERMOPLASTIC.
- 42. ALL SIGNS SHALL BE ON A TEN-FOOT (10') POLE A MINIMUM OF SEVEN FEET (7') FROM THE GROUND.
- 43. STREET SIGNS SHALL BE MOUNTED WITH TEE CAPS.
- 44. STREET SIGNS SHALL BE SIX INCHES (6") WIDE WITH GREEN BACKINGS AND WHITE LETTERS AND BORDERING.
- 45. STOP SIGNS SHALL BE A MINIMUM TWENTY-FOUR INCH BY TWENTY-FOUR INCH  $(24" \times 24")$ .
- 46. STOP SIGNS ARE TO BE PLACED FOUR FEET (4') FROM BACK OF CURB, FOR FEET (4') BEHIND CROSS WALKS AND ON THE RIGHT HAND SIDE OF THE ROAD.
- 47. STREET SIGNS ARE TO BE LOCATED ON THE LEFT HAND CORNER OF THE INTERSECTION FOUR FEET (4') FROM THE BACK OF CURB.
- 48. STREET / STOP SIGN COMBINATIONS ARE NOT ALLOWED.
- 49. ALL REGULATORY SIGNS SHALL BE BLACK AND WHITE. ALL CONSTRUCTION WARNING SIGNS SHALL BE ORANGE AND BLACK. ALL WARNING SIGNS SHALL BE YELLOW AND BLACK. ALL NO PARKING AND STOP SIGNS SHALL BE RED AND WHITE.
- 50. STOP BARS SHALL BE TWENTY-FOUR INCHES (24") WIDE AND LANE WIDTH. ALL STOP BARS SHALL BE THERMOPLASTIC.
- 51. ALL SIGNS SHALL BE SIDED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS.
- 52. ALL DETECTABLE WARNING PADS FOR ADA RAMPS ARE TO BE WET-SET MATS.

### CITY MAINTENANCE OF TRAFFIC:

- 53. AFTER ISSUANCE OF THE PERMIT, THE PERMITTEE SHALL NOTIFY THE CITY PUBLIC WORKS DEPARTMENT A MINIMUM OF TWO BUSINESS DAYS PRIOR TO COMMENCING CONSTRUCTION. THIS NOTIFICATION WILL ALLOW FOR SCHEDULING OF INSPECTIONS.
- 54. IF A ROAD CLOSURE IS REQUIRED, THE PERMITTEE SHALL SUBMIT WITH THE PERMIT APPLICATION A MAINTENANCE OF TRAFFIC (MOT) PLAN TO INCLUDE ALL PROPOSED ROAD CLOSURES AND AN EXPECTED TIME DURATION FOR EACH CLOSING.

- 55. ROAD CLOSURES SHALL REQUIRE SEPARATE APPROVAL BY THE PUBLIC WORKS DEPARTMENT AND A MINIMUM OF THREE BUSINESS DAYS PRIOR NOTIFICATION BEFORE THE COMMENCEMENT OR CONSTRUCTION.
- 56. ROAD CLOSURES SHALL REQUIRE SEPARATE APPROVAL OF CLAY COUNTY FIRE AND RESCUE.
- 57. ROAD CLOSURES OF FEWER THAN 15 MINUTES SHALL NOT REQUIRE NOTIFICATION.

### CITY AS-BUILT REQUIREMENTS:

58. AS-BUILTS MUST BE SUBMITTED ON THE APPROVED GRADING.

#### CITY EMERGENCY SHELTER NOTES PER SEC 117-192-B-3

AN EMERGENCY SHELTER SHALL BE PERMITTED IN THE INSTITUTIONAL ZONING DISTRICT AS A SPECIAL EXCEPTION. SUBJECT TO THE FOLLOWING PROVISIONS:

- (1) A MINIMUM OF 300 SQUARE FEET OF PRIVATE INDOOR LIVING SPACE SHALL BE PROVIDED FOR EACH OCCUPANT OF A STRUCTURE.
- (2) MINIMUM PARKING REQUIREMENTS SHALL BE AS FOLLOWS:
- A. ONE PARKING SPACE FOR EACH THREE BEDS; AND
- B. ONE PARKING SPACE FOR EACH EMPLOYEE.

Item # 6.

Engineering, I

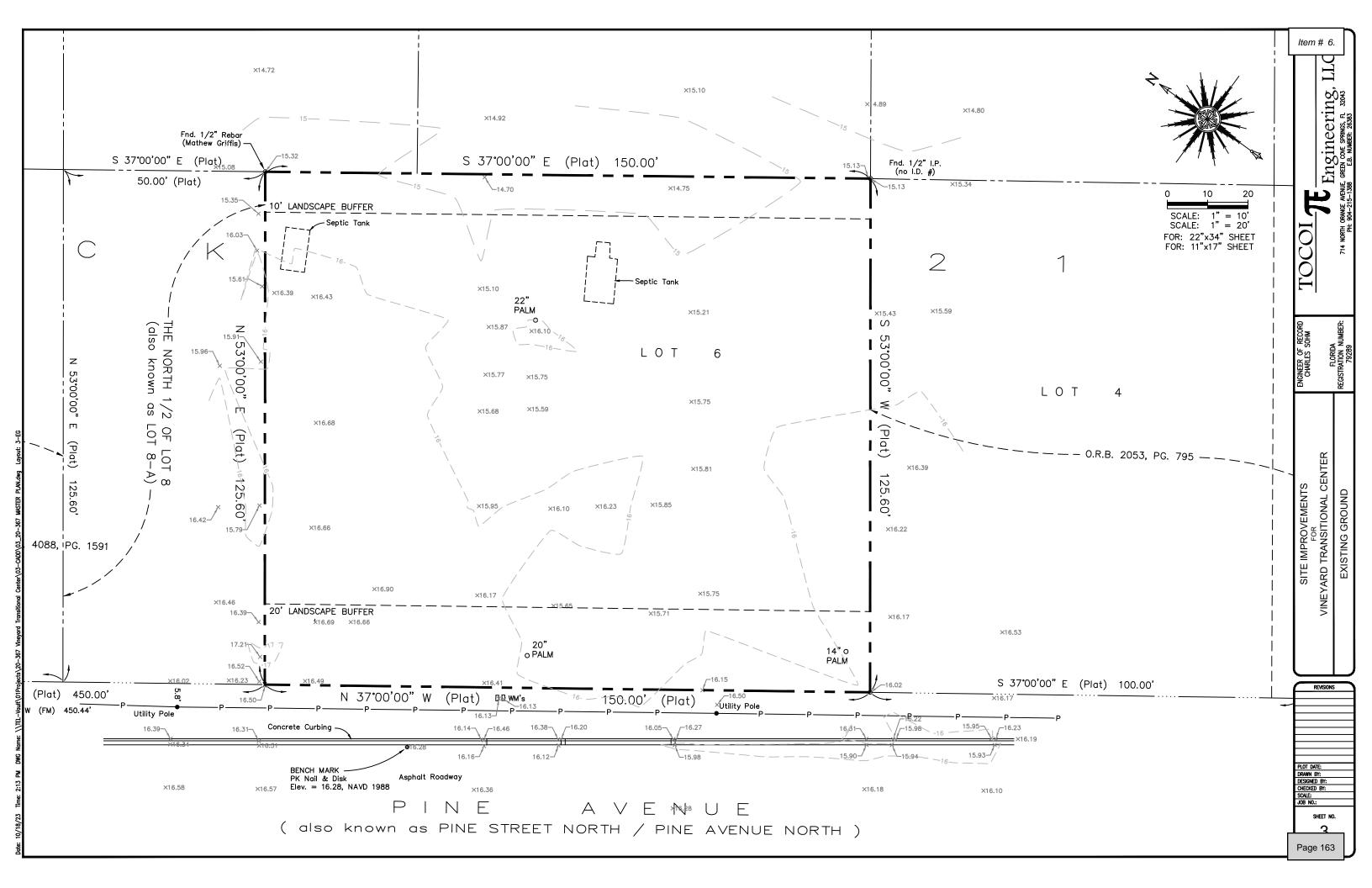
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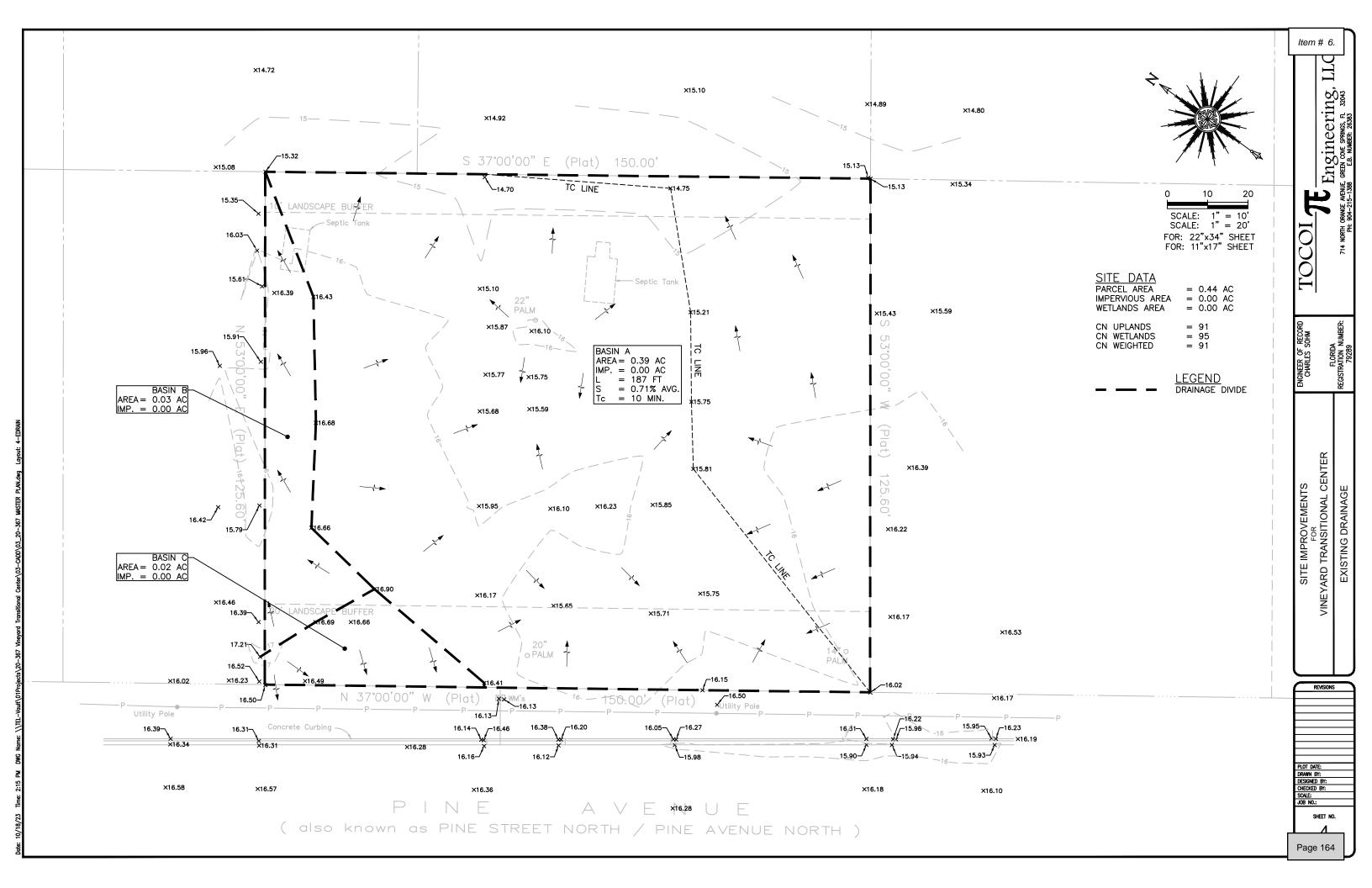
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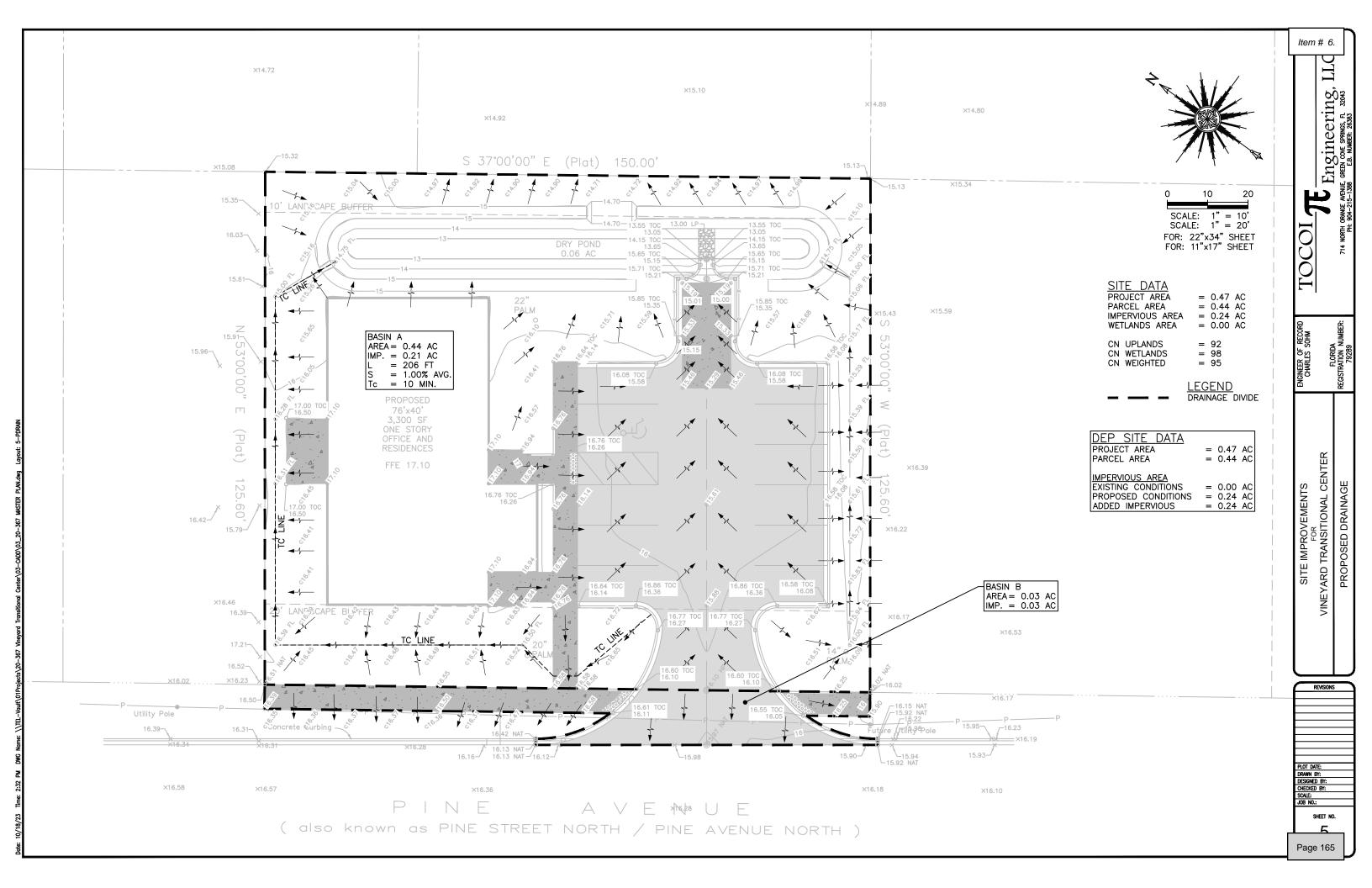
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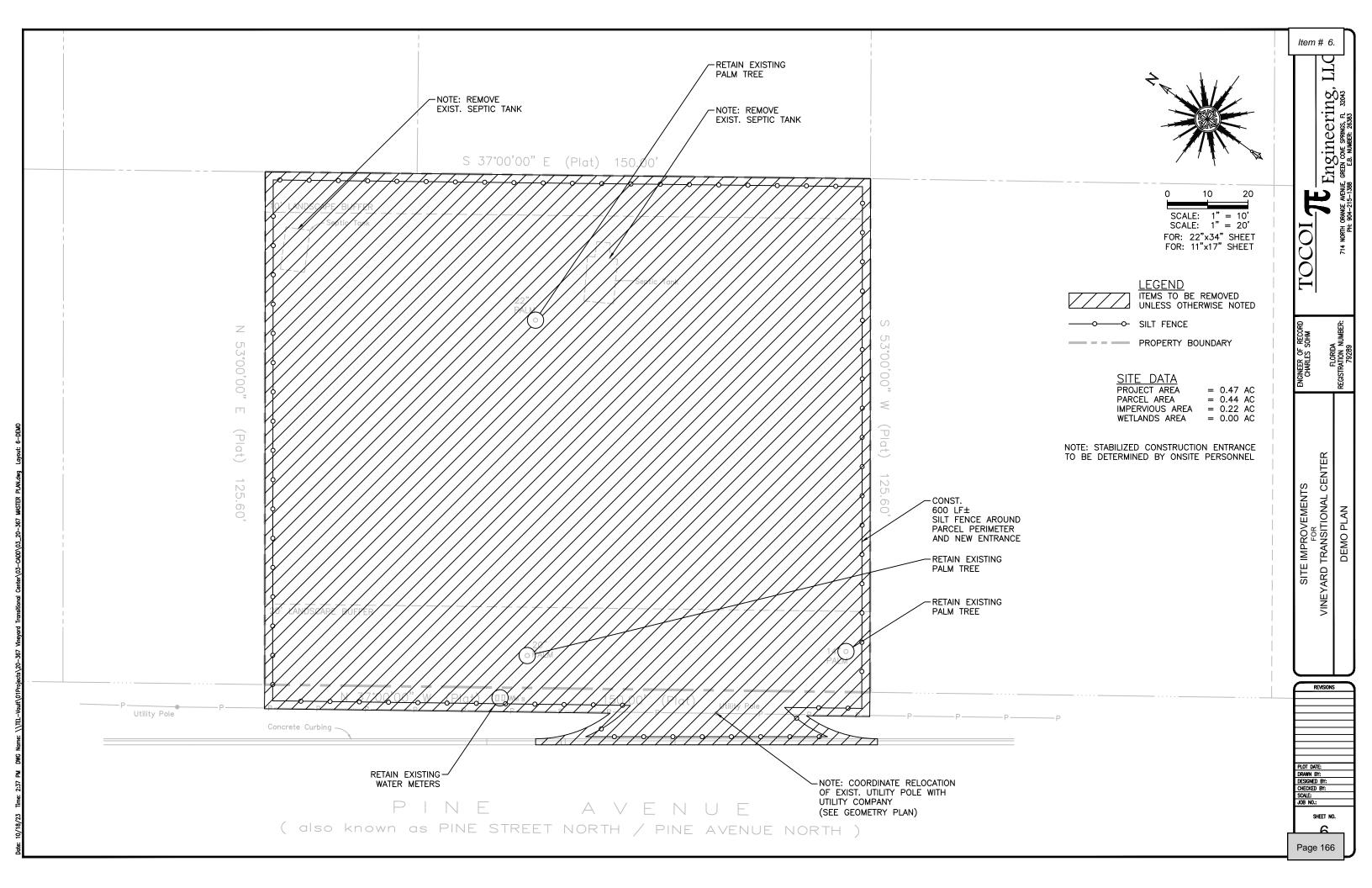
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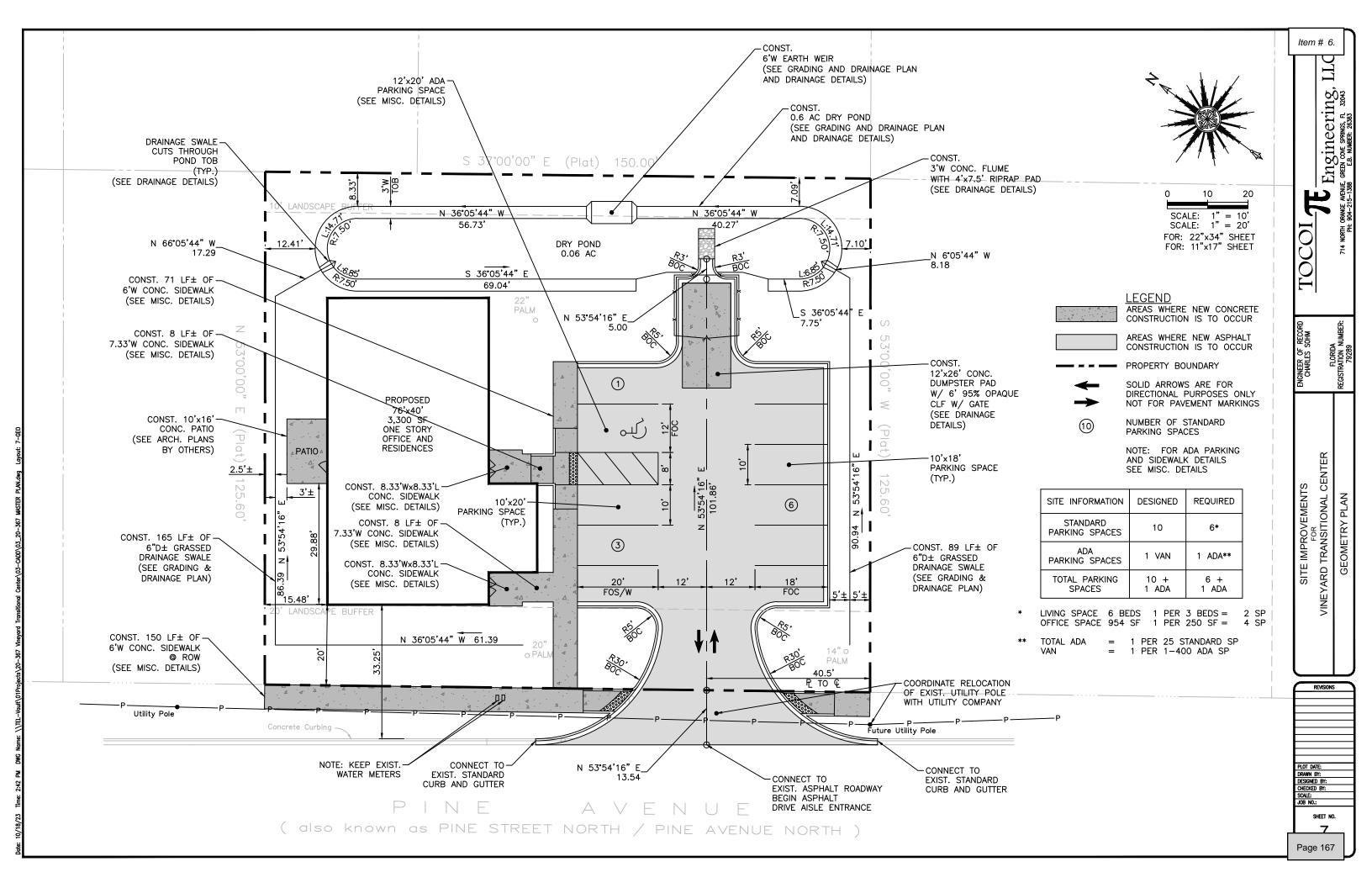
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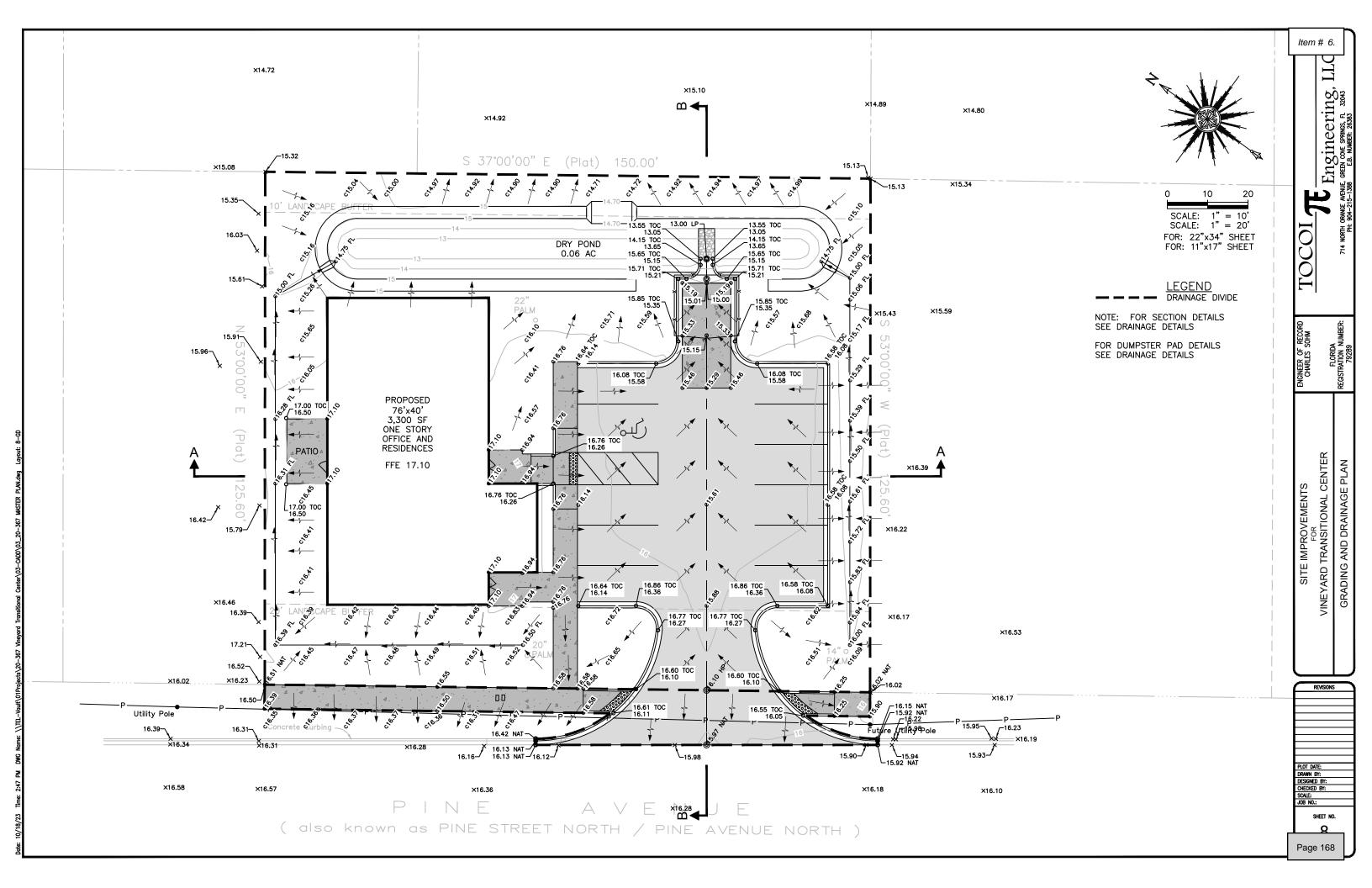


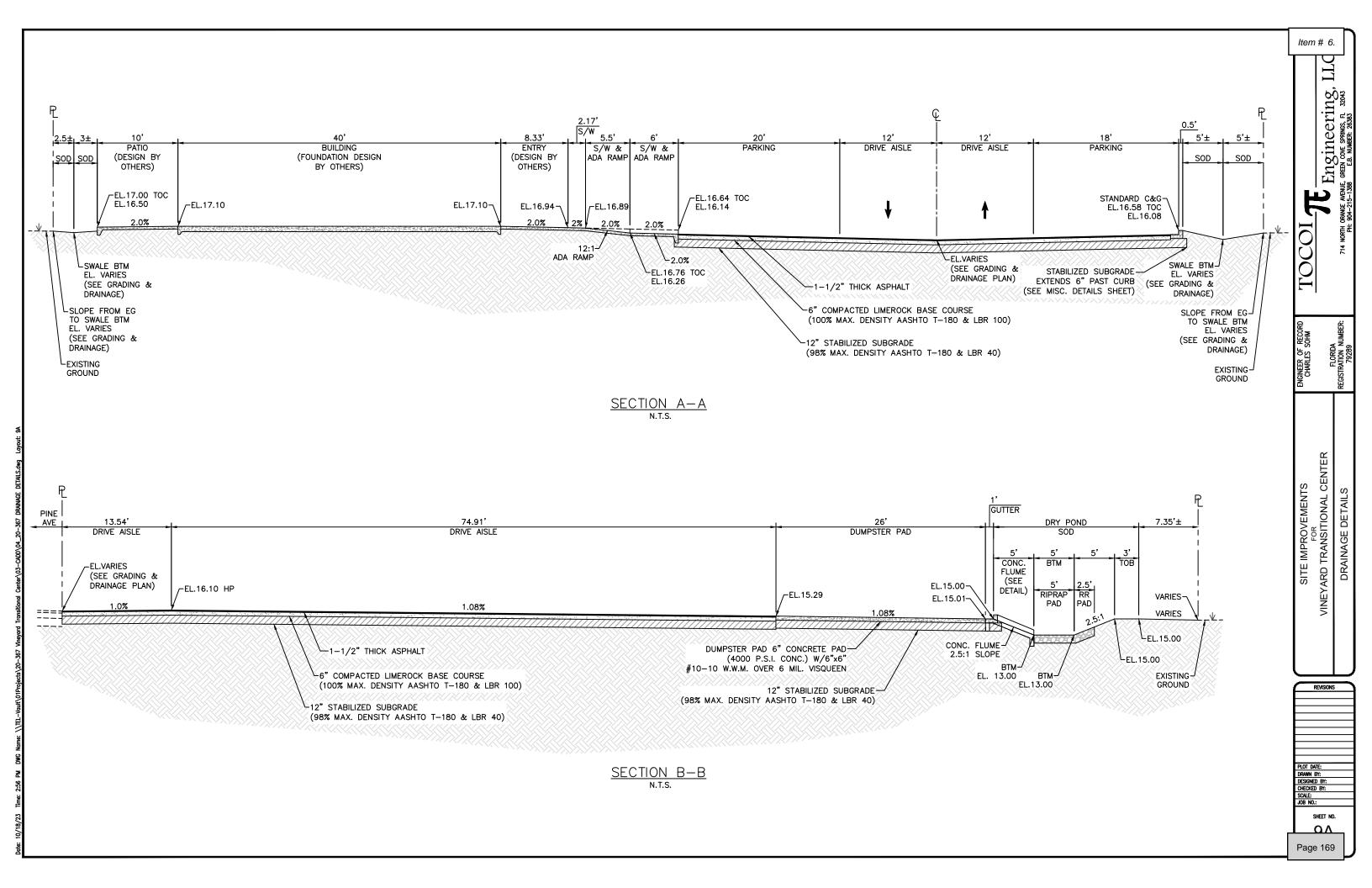


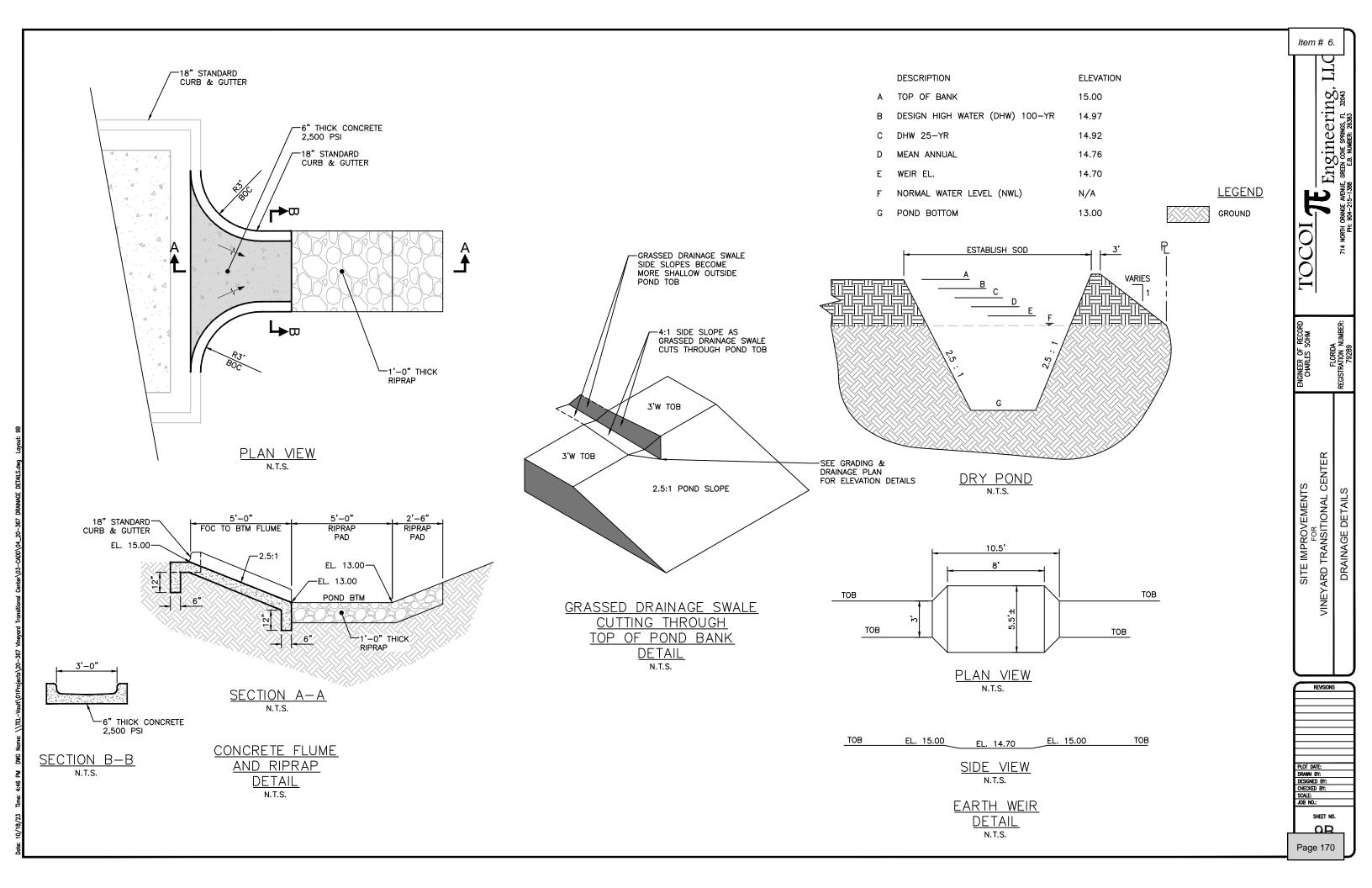


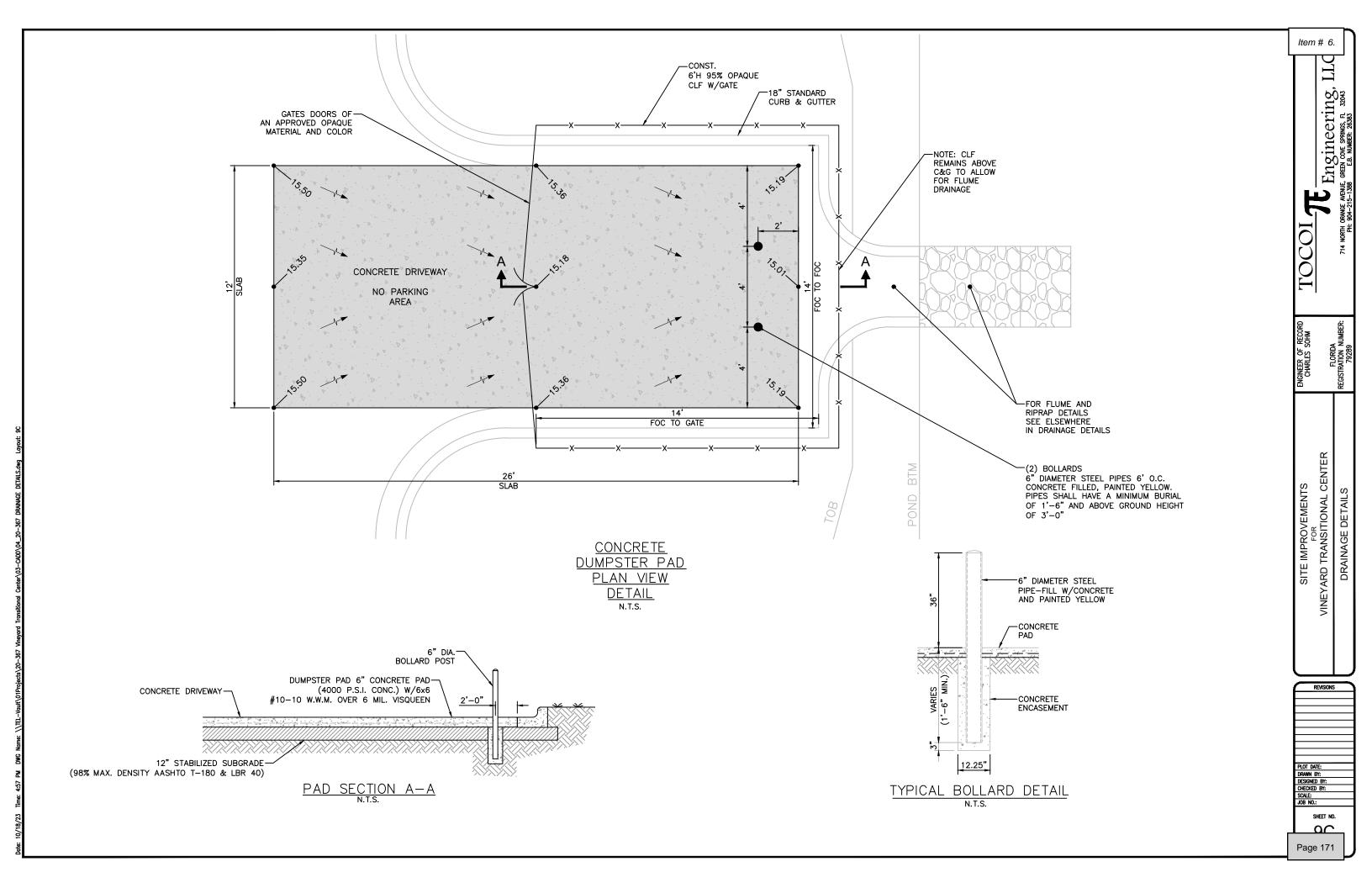


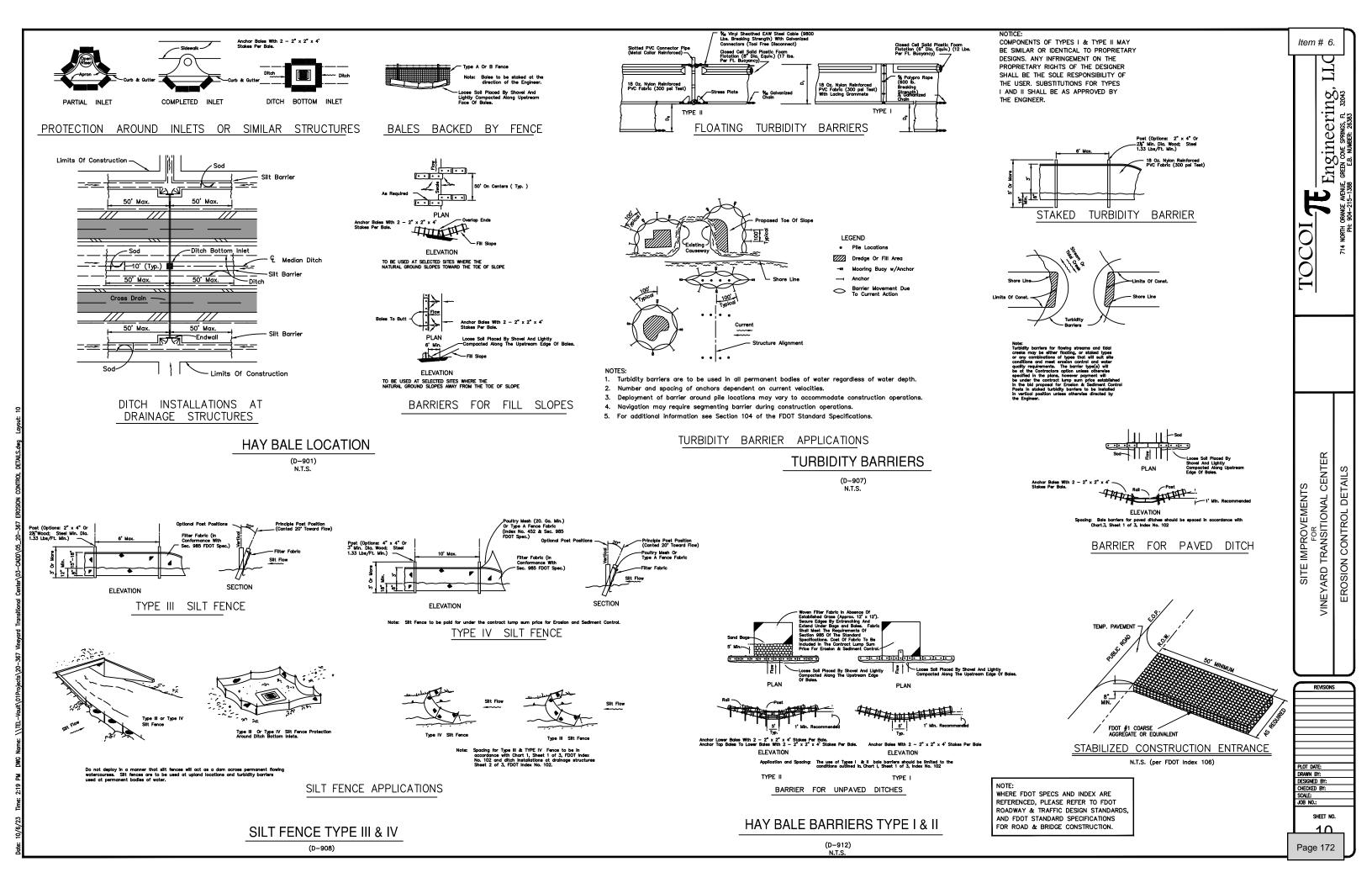


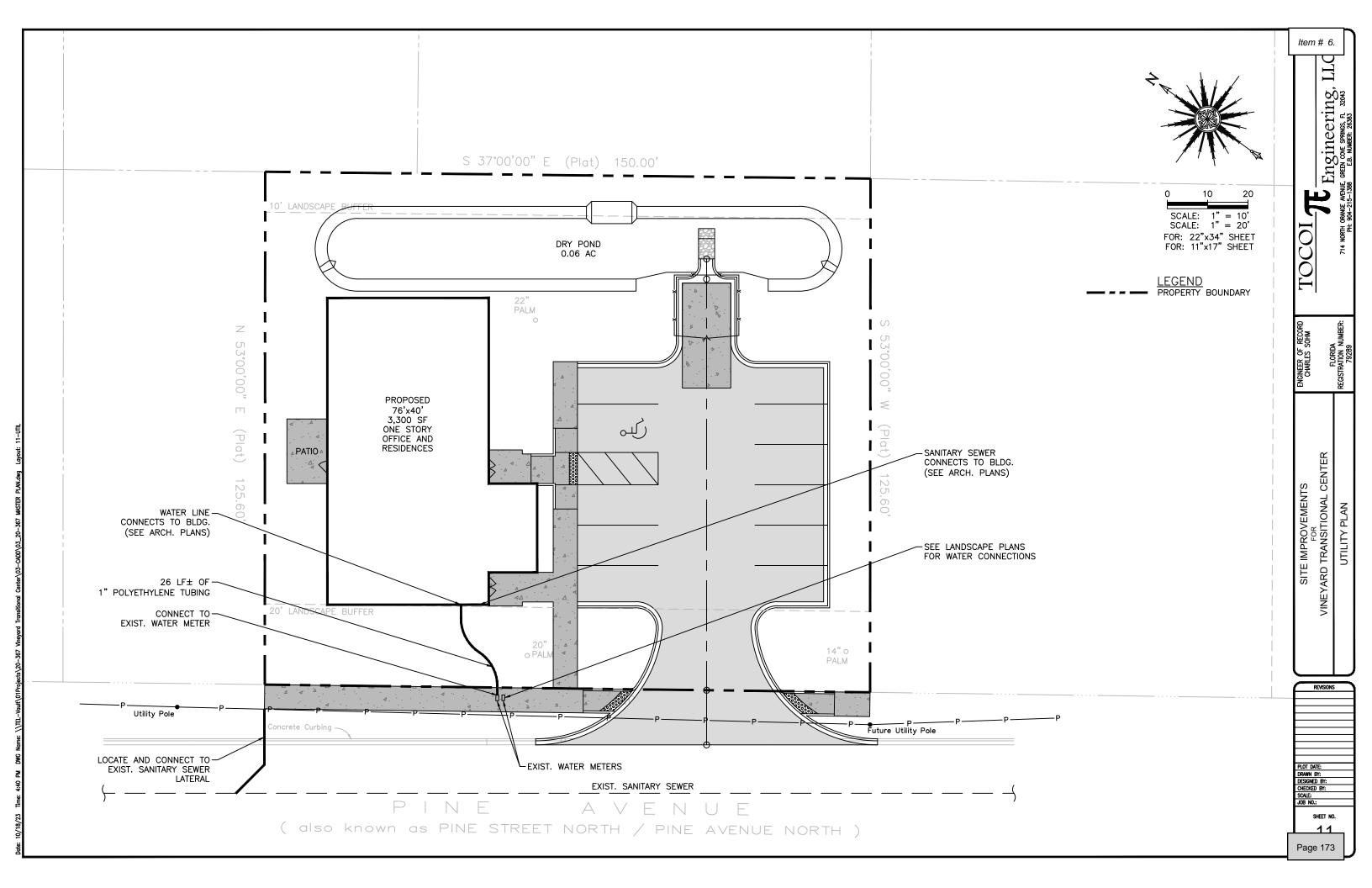












#### GREEN COVE SPRINGS GENERAL NOTES

- 1. AS-BUILT DRAWINGS. During the daily progress of the work, the Contractor's job superintendent shall record on his field set of drawings all work installed. All manholes, sewer mains, laterals, valves, fittings, fire hydrants, etc. shall be located in two directions. One location shall be referenced perpendicular to the right-of-way lines and/or property lines (preferably both) or existing permanent utility structures are acceptable (i.e manholes, catch basins, fire hydrants, head/endwalls, etc.). No power / utility poles may be used for reference. Elevations of manhole inverts and center of cover shall be shown to the nearest hundredth of a foot. Size, type, class and slope of sewer main shall be shown (i.e. 8" PVC, SDR-35). Size, type and class of water mains, valves, fittings, fire hydrants, etc. shall be shown (i.e. 8" D.I.P., 6" Gate Valve). All locations where the top of the water main is less than 36" deep or more than 50" deep shall be noted on the as-builts. R The As-Builts shall be at the Contractor's expense, provided in AutoCad R10, or later, in accordance with the City of Green Cove Springs required format. R A copy of the AutoCAD data shall be furnished on a compact disk (CD) and the contractor shall provide two double matte mylars and six prints of the as-builts on 18"x 24" sheets. Title Block format, as-built page numbers, fire hydrant numbers, and continuation sheet numbers shall be obtained from the City of Green Cove Springs staff before preparation of the as-builts and shall be incorporated into the as-built drawings prior to submittal. Scale shall be 1"=100', however, in congested areas where dimensions and data are not legible an insert shall be drawn to a scale which will provide adequate space for the as—built data. The lettering and numerals shall be legible and a minimum height of 0.06 inches. The mylars shall be signed by the General Contractor and Florida Registered Surveyor for the job. The signature shall certify that the "As-Built Drawings" do in fact, reflect the true as—built conditions. Upon completion of the job and the preparation of the as-builts, a "proof" set of the as-builts will be delivered to the Utility and the Design Engineer for their review and comment, prior to the final as-builts being submitted to the Design Engineer for his use in final certification to the Florida Department of Environmental Protection. As-built corrections based on the Utility's and the Design Engineer's comments shall be incorporated into the as-builts that the engineer uses for final certification, and the appropriate number of R copies of such as-builts along with the mylar and AutoCAD disk shall be delivered to the Utility with the request for execution of the final certification or prior. Water as-builts and sewer as-builts shall be on separate
- 2. CONSTRUCTION WARRANTY AND WARRANTY SECURITY PERIOD. Developer shall warranty Utility against defects in material and workmanship for the portion of the on-site system to be owned by the Utility. Developer shall secure from its Contractor a written and fully assignable warranty that the system installed will be and remain free from all defects, latent or otherwise with respect to workmanship, materials, installation, and accuracy of his as—built drawings in accordance with the Utility approved plans and specifications for a period of one year from the date of the system acceptance by the Utility, and immediately assign the same and the right to enforce the same to Utility on or before the date of the Utility's acceptance of the system for ownership and maintenance.
- 3. CLEAN-UP. All surplus materials of construction shall be removed from the site and disposed of by the Contractor as part of his contract with the owner.
- 4. RESTORATION. New Sanitary Sewer and Water Main Construction in earthen areas shall be seeded and mulched in accordance with Section 570 of the Standard Specifications of the Florida Department of Transportation (latest edition). In locations where existing grassed (sodded) areas are disturbed, sod shall be replaced to preconstruction condition and to limits of construction or where directed by the engineer.
- 5. PERMITS. The Contractor shall be responsible for obtaining all permits required for performing work under this contract, except that the F.D.E.P. permits and wetlands permits, if required, will be secured by the owner or developer.
- 6. PIPE BEDDING. In the event unsuitable or unstable bedding material is encountered at or below the limits of the excavation required for installation, such material shall be removed and replaced with suitable compacted backfill material specified by the design engineer and approved by the City of Green Cove Springs so as to provide a stable trench bedding surface suitable for proper pipe installation.
- 7. DEWATERING. The contractor shall at all time during construction provide ample means and equipment with which to promptly remove and dispose of all water entering the trench and structure excavations and shall keep said excavations acceptably dry, until the piping and/or structures to be built therein are completed. All water pumped or drained from the work area shall be disposed of in a manner as to not damage sewer, water, electrical or any other piping, structures or property. No pipe shall be laid in water and no water shall be allowed to rise above the bottom of any pipe while it is being jointed, except as may be approved in writing by the City of Green Cove Springs.

- 8. HYDROSTATIC TESTING. After all pressure pipes (water mains, services, and force mains) are laid, the joints completed, and the trench backfilled, the newly laid pipe and appurtenences shall be subjected to a hydrostatic test of 150 P.S.I. for a period of at least 2 hours. The Engineer and the City of Green Cove Springs must be notified 24 hours before a test is to be performed. Test shall be as set forth in AWWA standard C600. Any leaks detected shall be corrected and the section of pipeline retested. The 2 hour test period shall begin when all joints have been determined to be water tight. Leakage shall be limited to that allowance set forth in Section 4 of AWWA Standard C600-87. Hydrostatic and leakage test and blow-down (zeroing of gage) must occur before sampling for bacteriological test. The maximum allowable pressure loss is 5 P.S.I. regardless of the length of pipe.
- 9. REPORTS. Reports of hydrostatic and leakage tests and sterilization of the newly completed systems shall be submitted to the City of Green Cove Springs prior to requesting acceptance of the system.
- 10. DENSITY TESTING. In-place density tests are required at intervals not to exceed 150' along pipelines for every other lift. A minimum of one test between manholes is required for every other lift regardless of the distance between sanitary sewer manholes.
- 11. CONCRETE. All Portland Cement concrete shall be of Type II Portland Cement, 2,500 P.S.I. minimum, ready mixed. All concrete shall be placed before the initial set has taken place. Stale or retempered concrete shall not be used.
- 12. GATE VALVES AND BOXES. Gate valves shall have a 2" operating nut and open left. Gate valves shall have joints suitable for the type main on which installed. Valves 2" and 3" shall be iron body, bronze fitted. Valves 4" and larger shall be iron body, bronze fitted with resilient seat. The word "WATER" on water boxes and "SEWER" on force main boxes shall be cast in the covers.
- 13. SEPARATION OF WATER AND SEWER MAINS. A horizontal separation of a minimum of 10 feet shall be maintained between parallel water mains and sanitary sewers (including force mains) where practical. Where water mains and sanitary sewers cross with less than 18 inches vertical clearance, all PVC pipe shall be encased in concrete for a distance of 20 feet centered on the point of crossing; or a 20 foot section of ductile iron sewer pipe or DR-18 water pipe centered on the point of crossing may be substituted. This situation may or may not be noted on the design drawings. The City of Green Cove Springs must specifically approve use of ductile iron pipe for this situation.
- 14. NEW CONNECTION TO EXISTING MAIN. New connection to existing main in service shall be accomplished by the "wet tap" method utilizing full circle stainless steel tapping sleeve and mechanical joint tapping valve. Tapping sleeve shall be rated at 200 P.S.I., non—shock working pressure conforming to AWWA Standard C110, latest revision. Romac SST or JCM 432 stainless steel tapping sleeve with ductile iron flange is preferred. Tapping valve shall be mechanical joint one end and standard flanged joint on other end. Valve shall conform to Section 12. of these specifications.
- 15. JOBSITE SAFETY. While on the jobsite, the contractor shall at all times observe all Federal, State and local safety rules, regulations and laws. This applies to all aspects of the project including all rules, regulations, laws and requirements governing "confined spaces" for which a specific permit from the City of Green Cove Springs will be required.
- 16. CLOSE OUT / COMPLETION. Minimum items required for Close Out / Completion for submittal to the City of Green Cove Springs will include:
  16.a. Construction Warranty from Developer in the form of a Bond, Letter of Credit or Cashier's Check for a two-year period.
- 16.b. Warranty Certificate for a two—year warranty from the contractor to the Developer and assignment of same to the City of Green Cove Springs.
- 16.c. Developer's Affidavit certifying there is no outstanding debt against utility assets to be deeded to City of Green Cove Springs.
- 16.d. Value of Acceptance Report showing value of assets to be deeded to the City of Green Cove Springs.
- 16.e. Bill of Sale to City of Green Cove Springs.
- 16.f. Bacteriological Test(s)
- 16.g. Pressure Test(s)
- 16.h. Television Reports and Tapes
- 16.i. Density Reports
- 16.j. Final As-Built Drawings and disks

- 17. AS—BUILT PLANS AND COST RECORDS. All cost records pertaining to the cost of water and sewer facilities donated to the Utility shall be provided to the Utility by Applicant. Prior to acceptance of any extension to the Utility's system that is completed by a licensed underground utility contractor, the Utility will require that the Applicant's contractor provide the Utility to retain for its permanent records, with:
- 17.a. Neat, legible, handwritten field copy as—built drawings showing all dimensions and elevations required by the Utility; and
- 17.b. A written report, in a format acceptable to the Utility, certified to by a Florida registered surveyor or mapper which:
- 17.b.1. Identifies each manhole by reference number;
- 17.b.2. Provides the top elevation of each manhole:
- 17.b.3. Identifies the inverts of all pipes coming into each manhole;
- 17.b.4. Provides the elevation of each invert and;
- 17.b.5. Provides the distance and grade on each pipe between manholes.
- 17.b.6. Applicant's Contractor shall be responsible for paying in advance the Utility's cost for preparation and completion of the Utility's final CADD as-built plans for each such extension of the Utility's system, based on the Utility's initial estimate of the cost to complete the Utility's final CADD as-built plans. Extra time required for revisions to the Utility's CADD as-built plans, caused either by inadequate as-built field copies provided by the Applicant's contractor, inaccurate or incomplete dimensions provided by the Applicant's surveyor, or other incomplete or inadequate information required of Applicant, Applicant's contractor or surveyor to complete the Utilities CADD as-built plans, or by any combination of such factors, shall be charged to and paid by the Applicant as an additional cost of completing th Utility's final CADD as-built plans, based on an hourly rate of \$30.00 per hour, plus plotting and printing costs for any extra proof sets. Once the Utility has completed its proposed final CADD as-built plans for such extension, a proof set of the proposed plans will be provided to the Applicant's contractor for proofreading and verification of the accuracy of the Utility's proposed final CADD as-built plans, based on the information provided to the Utility by the Applicant, Applicant's contractor or surveyor. When the Utility's proposed final CADD as-built plans have been verified as accurate by the Applicant's contractor, then a final set of "official" as-built plans will be plotted by the Utility and mylars will be prepared and submitted for the signature of the Applicant's contractor.
- 18. Location wire and warning tape is to installed on all water, sewer and forcemain to be dedicated to Green Cove Springs per Green Cove Springs standards and specifications.

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- 2. GENERAL. All materials shall be new and unused. Materials shall be warranted by the Contractor as to materials, workmanship and accuracy of As—Built drawings for a period of two years from the date of completion of the work or beneficial use of the facilities. Workmanship shall be of good quality; i.e., mains shall be laid in a uniform alignment, fittings shall be properly restrained, trenches shall be properly excavated and backfilled, fire hydrants and valve boxes shall be adjusted to finished grade.
- 3. SURVEYS. The Utility Contractor shall provide all surveys necessary for the layout and construction of the work of his contract.
- 4. EARTHWORK. Earthwork shall include all excavation, fill and backfill (hand/machine), compaction and rough grading of materials encountered. No unsuitable materials clay, muck, or peat removed from pipe trenches are to be used for backfill. All fill or backfill shall be either sand or sandy clay, free of roots, trash or other debris. All backfill alongside of and to a height twenty—four inches above all pipe shall be free of clay or organic material, compacted by either hand or machine operation carefully to 98%. All other backfill shall be compacted by either hand or machine operation carefully to 95% (outside of paving), 98% (under paving) of its optimum moisture content as determined by ASTM D698, latest.
- 5. JOINT RESTRAINT. All fittings shall be properly and adequately restrained against lateral movement at all water main tees, crosses, valves bends and fire hydrants. Restrainers shall be Mega-lug or Uni-Flange Series 1300, 1350, 1390 or approved equal installed per manufacturer's recommendations and the City of Green Cove Springs Details and Specifications.
- 6. DUCTILE IRON PIPE. Ductile iron pipe shall conform to ANSI Specification A21.50 (AWWA C150) latest, "Thickness Design of Ductile Iron Pipe", Table 50.5, laying condition Type 2, internal operating pressure 250 p.s.i. for an 8-foot depth of cover, Class 51 minimum and shall be ANSI A21.51 (AWWA C151), latest centrifugally cast pipe. Laying lengths shall be 20 feet or less, each length clearly marked with pressure rating, thickness class, height of pipe without lining, length, and manufacturer. Ductile iron pipe for water service shall be furnished with cement lining per AWWA C110, C115 and C151. The pipe shall have design values of 60,000 P.S.I. minimum tensile strength, and 42,000 P.S.I. minimum yield strength. Ductile iron pipe for water service shall be used only between lots with close houses or with prior approval of the City of Green Cove Springs.
- 7. DUCTILE IRON FITTINGS shall be C153 cement lined and suitable for the type and class of pipe to which connected. Gaskets shall be suitable for potable, domestic water service. Minimum working pressure shall be 150 P.S.I.
- 8. STEEL CASING PIPE. Steel casing pipe shall be of size indicated on the Drawings and shall conform to ASTM A139, with a minimum yield strength of 35,000 p.s.i.
- 9. POLYVINYL CHLORIDE PIPE. Polyvinyl chloride pipe for water mains 4 inch in diameter and larger, shall be P.V.C. C900, DR18 orDR25.
- 10. POLYVINYL CHLORIDE PRESSURE PIPE. Pipe shall be virgin polyvinyl chloride (PVC) pipe for potable water and shall have a bell type coupling with a thickened wall section integral with the pipe barrel in accordance with ASTM D3139. Elastomeric seals shall meet ASTM F477. The pipe material shall be clean, virgin, National Sanitation Foundation NO.14 approved, Class 12454-A or 1254-8 PVC compound conforming to ASTM resin specification D1784. Each length shall be clearly marked with the manufacturer, location of plant, pressure rating, nonimal pipe diameter and lenght. Storage and handling of PVC pipe shall be in accordance with chapter 6 of AWWA manual M23. All PVC water pipe shall be blue. PVC 1120, CLASS 100, DR 25 PIPE Pipe shall conform to AWWA standard C900 for 4 inch through 12 inch pipe, and AWWA stanard C905 for 14 inch through 36 inch pipe. All pipe shall be hydrostatically proof tested at the factory in conformance with UNI-8-11 stangeds. In case of conflict between standards specified herein, the requirements of AWWA Standard C900 and C905 shall prevail. Pipe is to be manufactured to ductile iron pipe equivalent outside diameters. The pipe shall be designed to pass without failure a sustained presssure test of 350 psi in conformance with ASTM D1598 and a quick burst test of 535 psi in conformance with ASTM D1599. PVC 1120, CLASS 150. DR 18 PIPE Pipe shall conform to AWWA standard C900 for 4 inch through 12 inch pipe, and AWWA standard C905 for 14 inch through 36 inch pipe. All pipe shall be hydrostatically proof tested at the factory in conformance with UNI-8-11 standards. In case of conflict between standards specified herein, the requirements of AWWA Stanard C900 and C905 shall prevail. Pipe is to be

#### OUTLINE SPECIFICATIONS FOR CONSTRUCTION OF WATER DISTRIBUTION SYSTEM

manufactured to ductile iron pipe equivalent outside diameters. The pipe shall be designed to pass without failure a sustained presssure test of 500 psi in conformance with ASTM D1598 and a quick burst test of 755 psi in conformance with ASTM D1599. PVC 1120, CLASS 200, DR 14 PIPE Pipe shall conform to AWWA standard C900 for 4 inch through 12 inch pipe, and AWWA standard C905 for 14 inch through 36 inch pipe. All pipe shall be hydrostatically proof tested at the factory in conformance with UNI-8-11 standards. In case of conflict between standards specified herein, the requirements of AWWA Standard C900 and C905 shall prevail. Pipe is to be manufactured to ductile iron pipe equivalent outside diameters. The pipe shall be designed to pass without failure a sustained presssure test of 650 psi in conformance with ASTM D1598 and a quick burst test of 985 psi in conformance with ASTM D1599. PVC 1120, CLASS 200, SDR 21 PIPE Pipe shall conform to ASTM D2241 and shall be used only for construction of 2 inch water mains. Pipe is to be manufactured to I.P.S. (Steel) Standard Pipe equilvalent outside diameters. The pipe shall be designed for a hydrostatic working pressure of 200 psi at 73.4 degrees F. and to pass without failure a sustained pressure of 420 psi minimum when tested in accordance with ASTM D1598, and a quick burst test test of 630 psi minimum when tested in accordance with ASTM D1599. Pipe shall be marked NSF-pw approved. PVC 1120, SCHEDULE 40 AND 80 PIPE Pipe shall conform to ASTM D1784 and D1785 shall be used only for construction of 2 inch water mains. Pipe is to be manufactured to I.P.S. (Steel) Standard Pipe equilvalent outside diameters. The sustained pressure test shall be conducted in accordance with ASTM D1598 at test pressures given in ASTM D1785. The burst pressure test shall be conducted in accordance with ASTM D1599 at test pressures given in ASTM D1785. Pipe shall be marked NSF-PW approved.

- 11. POLYVINYL CHLORIDE (PVC 1120, SCHEDULE 80) PIPE shall conform to the requirements of ASTM D 1785. Fittings shall be suitable for type of installation required. All piping smaller than 4" shall be Schedule 80 PVC.
- 12. GATE VALVES AND BOXES. Gate valves shall be non-rising stem type and shall be suitable for a 200 p.s.i. non-shock working pressure Gate valves shall be mechanical joint, flanged or screwed. Gate valves shall have a 2" operating nut and open left. Gate valves shall have joints suitable for the type of main on which installed. Valves 2" & 3" shall be iron body, bronze fitted (distribution mains only). Valves 4" and larger shall be iron body, bronze fitted with resilient seat. Valves shall be of domestic (American) manufacture and shall be A.F.C., M&H, Mueller or approved equal. Valves 16" and larger shall be AWWA C-509, M&H Valve Co. Valve boxes with screw extensions shall be provided for all gate valves. Boxes shall be of cast iron construction, 7/32" minimum wall thickness and shall be nontacky tar enamel coated. The word "WATER" shall be cast in the cover. Other valves 2" and smaller shall be heavy—duty bronze, key operated ball valves.
- 13. WATER METER BOXES. Water meter boxes for residential services shall be DFW #D-1200. Meter boxes for flushing hydrants shall be Russco meter #D-112. Developer shall be responsible for installation of meter boxes on all water services as part of the water main installation. All curb stops shall be adjusted to the proper elevation and shall be accessible for the installation of the water meter. The contractor shall be required to open all boxes for the Authority's inspector at the final inspection. A treated 6'-6" long treated fence post marker shall be installed at the side of and centered on the meter box and painted blue for identification. DFW #D-1200 lid shall be C282 and Russell #112 shall be C283 for Touch Read meters.
- 14. CURB STOPS. Curb stops shall be cast bronze, inverted key stop, roundway, with check, lock wing type, for locking in the closed position. Curb stops shall be Ford Ball Valve, with F.I.P.T.
- 15. FIRE HYDRANTS. Fire hydrants shall be traffic type, 150 pound working pressure, AWWA Standard C502, latest revisions, with two 2 1/2" nozzles, one 4 1/2" nozzle and 5 1/4" main valve. Fire hydrant shall be be compression type with breakable coupling and bolts. Pipe connection shall be mechanical joint. Mueller A-423 or M&H 5 1/4 129T are the only acceptable fire hydrants. Fire hydrants shall be painted red with a white top and 1 1/2" penta nuts, opening left.
- 16. INSTALLATION. The minimum cover over top of potable water main shall be 36" minimum. All water lines and appurtenances shall be thoroughly cleaned of all foreign matter before being lowered into the trench and shall be kept clean during laying operations by means of plugs or other approved methods. All pipe shall be checked for defects before being lowered into the trench. Defective pipe shall not be used. Pipe found to be defective, after installation, shall be removed and replaced with sound pipe at no additional expense to the Owner. The full length of each section of pipe shall rest solidly upon the pipe bed, with recesses excavated to accommodate the bells and joints. All pipe that

has the grade or joint disturbed after laying shall be taken up and reinstalled. The pipe shall not be laid in water, or, when trench or weather conditions are unsuitable for the work. All joints shall be cleaned of all foreign matter before making the joint. Fittings at bends in the pipe shall be properly restrained with joint restrainers adequately sized to prevent movement and dislocating or blowing off when the line is under pressure. Service laterals shall terminate at the point noted in the details.

- 17. TESTS. After the pipe is laid, the joints completed, and the trench backfilled, the newly laid pipe and appurtenances shall be subjected to a Hydrostatic and Leakage test of 150 pounds per square inch for a period of at least two hours. During this period, all joints shall be inspected to determine water tightness of the system. Any leaks detected shall be corrected. Tests shall be in accordance with the City of Green Cove Springs requirements and specifications. Curb and limerock may be installed after construction of the water mains, however, limerock priming and paving operations may not proceed until such time as the C.O.G.C.S. inspector approves the water distribution system pressure test. This will be strictly enforced. If the water main is damaged during any of the operations prior to paving, a follow—up test may be required by the City of Green Cove Springs.
- 18. STERILIZATION. After completion of construction and testing, the water system shall be sterilized with chlorine in accordance with AWWA Standard C601 latest, and State of Florida Department of Environmental Protection requirements before acceptance for domestic operation. The amount of chlorine applied shall be sufficient to provide a dosage of 50 parts per million or more. The chlorine solution shall remain in the system for a period of at least 8 hours, during which time every valve in the system shall remain opened and closed several times to assure contact with every surface of the system. After completion of sterilization procedures, the system shall be flushed using chlorinated water from a domestic water source having a chlorine residual of at least 1 part per million. The contractor shall obtain all bacteriological clearances as required by the Florida Department of Environmental Protection. After bacteriological clearances, the pressure in the main shall not drop below 20 P.S.I. Clearance report to be submitted to the Engineer. The contractor should be aware that there is a timing maximum related to bacteriological clearance of the main, completion of as-built drawings and Engineer / The City of Green Cove Springs completion of Certificate of Completion. In any project where the bacteriological clearances are greater than 30 days old at the time of submittal of Certificate of Completion to F.D.E.P., the contractor may be required to pull more samples and obtain more bacteriological clearances. Prior to introducing the chlorine solution, the lines shall be thoroughly flushed with clean water utilizing full pipe diameter flushing for pipe up to and including 8" diameter. Contractor shall be responsible for dechlorination of the disinfectant water prior to any discharge to any ditch or surface waters.
- 19. BACTERIOLOGICAL SAMPLING. Contractor shall assure the project construction is completely finished prior to any bacteriological sampling and testing.

# FINAL INSPECTION PROCEDURES

PRIOR TO FINAL INSPECTION, THE CONTRACTOR SHALL PROVIDE THE FOLLOWING:

- The sewer line T.V. report and tape
- The pressure test and bacteriological clearance analysis report.
- . The engineer of record certification to D.E.P. This can be done with preliminary as—builts.
- 4. Preliminary as—builts showing at least the following: a.) Location of valves, mains, services and manholes.
  b.) Elevation of sewer lines in the manhole.
  5. All services and valves to be plainly marked with a treated fence post.
- 6. Pump station start—up report with draw down data for each pump and with both pumps in operation. All electrical components to be completely installed and in proper working condition.
- 7. Tracer wire test required prior to final inspection.

ITEMS THAT DO NOT HAVE TO BE TOTALLY COMPLETED AT THE FINAL INSPECTION ARE AS FOLLOWS:

- The water services do not have to be lowered if the area between the back of curb and the right-of-way line has not been dressed up.
- 2. The meter boxes do not have to be set.
- 3. The manhole rings and covers do not have to be adjusted to final finish grade.

PRIOR TO FINAL ACCEPTANCE FOR OWNERSHIP, THE FOLLOWING MUST BE COMPLETED:

- All manhole rings and covers have to be adjusted to finish grade.
   Water services must be lowered and meter boxes installed, valve boxes must be
- 2. Water services must be lowered and meter boxes installed, valve boxes must be set on all gate valves.
- 3. As—built drawings shall have been updated to accommodate the City of Green Cove Springs comments and the final elevation of the manhole tops must be included.
- 4. As-builts must be accepted by the City of Green Cove Springs.

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THE WORTH DRAWGE ANDLE, GREN CONE SPRINGS, FL. 22043
PH. 904-215-1398
EB. NUMBER: 26383

Item # 6.

ENGINEER OF RECORD CHARLES SOHM FLORIDA REGISTRATION NUMBER: 79289

SITE IMPROVEMENTS
FOR
VINEYARD TRANSITIONAL CENTER
EEN COVE SPRINGS UTILITY DETAI

PLOT DATE:
DRAWN BY:
DESIGNED BY:
CHECKED BY:
SCALE:
JOB NO.:
SHEET NO.
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- 2. GENERAL. All materials shall be new and unused. The installation shall be warranted by the Contractor as to materials, workmanship and accuracy of As-Built drawings for a period of two years from the date of completion of the work or beneficial use of the facilities. Workmanship shall be of good quality; i.e., sewers shall be laid true to line and grade, fittings shall be properly installed and restrained, trenches shall be properly excavated and backfilled, manholes shall be installed at locations and to elevations shown on the plans.
- 3. SURVEYS. The Utility Contractor shall provide all sur-veys necessary for the layout and construction of the work of his contract.
- 4. EARTHWORK. Earthwork shall include all excavation, fill and backfill (hand/machine), compaction and rough grading of materials encountered. No unsuitable materials clay, muck, or peat removed from pipe trenches are to be used for backfill. All fill or backfill shall be either sand or sandy clay, free of roots, trash or other debris. All backfill alongside of and to a height twenty-four inches above all pipe shall be free of clay or organic material, compacted by either hand or machine operation carefully to 98%. All other backfill shall be compacted by either hand or machine operation carefully to 95% (outside of paving), 98% (under paving) of its optimum moisture content as determined by ASTM D698, latest.
- 5. MANHOLES. Manhole bases, sections and cones shall conform to the requirements of ASTM C478, Specifications for Precast Reinforced Concrete Manhole Sections. Cement shall meet the requirements of ASTM C150, Specifications for Portland Cement, Type II. Concrete shall meet the minimum requirements for Class "A" Concrete Work. Minimum wall thickness shall be 1/12 the inside diameter in inches plus one (1) inch. Bases for manholes shall be cast integrally with the bottom manhole section. Joint contact surfaces shall be formed with machined castings; they shall be exactly parallel with a 2 degree slope and nominal 1/16 inch clearance with the tongue equipped with a proper recess for the installation of an O-ring rubber gasket, conforming to ASTM C443, Joints for circular Concrete sewer and Culvert pipe using Rubber gasket, or RAM-NEK premolded Plastic Joint Sealer with joints Manhole adjustment materials shall be sound, hard, and pre-primed. uniformly burned brick, regular and uniform in shape and size, of compact texture and satisfactory to the Engineer. Precast concrete adjustment rings as manufactured by Taylor Precast Co. (or equal) may be utilized in lieu of brick adjustment. Brick shall comply with the ASTM Standard Specifications for Sewer Brick, Designation C-32, latest, Grade MM. Field mixed mortar for brick shall be composed of portland cement Type II, sand and clean water. Mortar shall be one part cement Type II and two parts sand; lime shall not be used. The outside faces of brick masonry shall be plastered with mortar from 1/4" to 3/8" thick. Precast manhole walls shall not be coated, unless otherwise noted. Cement grout for manhole bottoms shall be a stiff rich mix of Type II Portland Cement and sharp plaster sand. Calcium chloride may be added (maximum of 2%) to aid in obtaining a faster set. At pump station locations, the first upstream manhole from the station shall be lined with a polyethylene liner as manufactured and installed by Taylor Precast Co. or approved equal.
- 5.1. CAST IRON MANHOLE FRAMES AND COVERS. Cast iron manhole frames and covers shall be as detailed on drawings. Castings shall meet the requirements of ASTM A48, Specifications for Gray Iron Castings, Class No. 30, or Grade 65-45-12, Ductile Iron meeting the requirements of ASTM A536. Standard Specification for Ductile Iron Castings. In either case, manhole frame and cover shall be designed to withstand an HS20-44 loading defined in the ASSHTO Specifications. Frames and covers shall be machined or ground at touching surfaces so as to seat firmly and prevent
- 5.2. FLEXIBLE MANHOLE CONNECTOR. All connections between sewer pipe and pre-cast concrete manholes shall be accomplished by a Flexible Connector, "Kor—N—Seal", as manufactured by National Pollution Control Systems, Inc. or approved equal.
- 5.3. FLOW CHANNELS. Flow channels in manhole base shall be formed of D.O.T. Class I, Type II cement arout with brick or rubble and trowel to a smooth surface finish. Grout surface shall be 1" min, thickness over brick or rubble. While the manholes are under construction, cut off pipes at inside face of the manhole and construct the invert to the shape and sizes of pipe indicated. All inverts shall provide a constant gradient from influent pipe to effluent pipe through manhole. Changes in direction of the sewer and entering branch or branches shall be laid out in smooth curves of the longest possible radius which is tangent to the center lines of adjoining pipelines.

#### OUTLINE SPECIFICATIONS FOR CONSTRUCTION OF SEWAGE COLLECTION SYSTEM

- 5.4. DROP INLETS. Where shown on the drawings, drop inlets to the manholes shall be constructed as shown on the drawings and specified herein.
- 6. POLYVINYL CHLORIDE PIPE. Polyvinyl Chloride Sewer Pipe shall conform to the requirements of ASTM D-3034, SDR 26. The PVC compound conforming to ASTM D-1784. Pipe shall be clearly marked in 5 Ft. intervals or less, indicating manufacturers name, nominal size, cell classification and legend. Joints shall be push—on rubber gasketed, conforming to ASTM D—3034. Pipe and fittings shall be installed in accordance with recommended practice ASTM D-2321. Maximum depth of gravity sewer without prior approval shall be 15 feet.
- 7. PIPE BETWEEN MANHOLES. All piping installed between manholes shall be the same material and class. No dissimilar pipe material will be allowed anywhere within a single run of pipe.
- 8. SANITARY SERVICE LATERALS. Sanitary service laterals shall be Polyvinyl Chloride Pipe conforming to the requirements of ASTM D-3034, DR 35 where cover over top of pipe is 36 inches or greater. Where cover over top of pipe is less than 36 inches, sanitary service lateral shall be Ductile Iron Pipe, Polylined or Epoxy lined conforming to ANSI A 21.50, latest (unless specific construction conditions are agreed to by the City of Green Cove Springs). All sanitary service laterals shall be 6-inch diameter from the main to the right-of-way line with a minimum slope of 0.60% (0.6 feet per hundred feet). In single family residential developments, services shall reduce to 4" in size at the property line utilizing the proper fittings for the type of pipe specified. Mark end of all sewer laterals with 6'-6" treated post painted green.
- 9. FORCE MAINS. Force mains shall be C900 DR-18 PVC and conform to the requirements of ASTM D-1784, D-2241, D-3139 and F-477. Pipe shall be color coded and marked "FORCE MAIN" on at least two sides and at every 12" along the barrel of the pipe. Ductile iron pipe for force main service shall be asphaltic lined. Ductile iron pipe is not to be used without prior approval of the City of Green Cove Springs. Fittings shall be C110 gray iron and shall be asphaltic lined. Epoxy shall be 40 mil minimum thickness when approved with ductile iron pipe.
- 9.1. LIFT STATION VALVES. Plug valves shall be Dezurik or approved equal with full port opening. Check valves shall be M&H, Mueller or American Darling.
- 9.2. FORCE MAIN VALVE. Gate valve, resilient seated, same as specified in Water Distribution System Specifications Section 12 below. Valve box shall have the word "SEWER" cast into the cover.
- 9.3. FORCE MAIN JOINT RESTRAINT. All fittings shall be properly and adequately restrained against lateral movement at all force main tees, crosses, valves and bends. Restrainers shall be Mega-lug or Uni-Flange Series 1300, 1350, 1390 or approved equal installed per manufacturer's recommendations and City of Green Cove Springs details and specifications.
- 9.4. FORCE MAIN PIPE FLUSHING. All force main piping shall be flushed clean with water utilizing full pipe diameter flushing for all piping up to and includina 8" diameter.
- 10. INSTALLATION. All sewer lines, manholes, and appur-tenancies shall be constructed to the dimensions and elevations indicated on the drawings. Trenches shall be excavated to a width approximately twelve inches greater than the outside diameter of the pipe. Machine excavation shall be to a depth one-fourth pipe diameter above proposed pipe grade; the remaining depth shall be hand excavated and shaped to give full support to the lower one-fourth of each pipe. Each section of pipe shall be inspected for defects prior to being lowered into the trench. The inside of each bell and the outside of each spigot shall be thoroughly cleaned of all foreign matter, prior to making the joint. All sewer lines shall be constructed with the spigot ends pointing in the direction of the flow. Both the bell and the spigot of each joint shall be lubricated with the lubricant recommended by the pipe manufacturer. All sewer lines shall be cleaned of foreign matter as construction progresses, and shall be in a clean condition upon completion of construction operations. Pipe materials shall remain the same on runs between manholes and / or other structures.
- 11. INSPECTIONS. Each section of the completed sewer system shall be inspected for proper alignment. Inspection shall consist of "lamping" from manhole to manhole. Any section of the sewer system which does not display true, concentric alignment shall be reinstalled at no additional expense to the Owner. A written log of inspection shall be kept indicating location of test, potential problems in sewer, dips and depth of water, service locations, and other irregularities in the pipe lines. A video tape in DVD format shall be made of the television inspection and submitted to the Engineer and the City of Green Cove

- 11.1. Television inspection will be required on all new gravity sewers constructed. This service shall be provided by the Contractor as a part of this Contract. The newly constructed sewers shall be televised in the presence of the Inspector of the City of Green Cove Springs. A full report as to the condition of pipe, type, depth, location of services, length, type, joint and distance between manholes, etc. shall be furnished to the City of G.C.S. inspector prior to the final acceptance of the system. Any pipe found to be cracked, leaking or otherwise defective shall be removed and replaced with new pipe at no additional costs to the Owner. Deflection testing with 5% mandrel also required. Any section not passing the mandrel test shall be corrected. Curb and limerock may be installed after construction of the sewer lines, however, limerock priming and paving operations may not proceed until such time as the City of Green Cove Springs inspector reviews and approves the television tape of the gravity sewer system and/or approval of force main pressure tests. This will be strictly enforced. All gravity sewers must be flushed no sooner than 4 hours prior to any television inspection.
- 11.2. TEST, INFILTRATION: After completion, the sewers or sections thereof, shall be tested and gauged for infiltration. To check the amount of infiltration, the Contractor, at no added compensation over the contract price for the sewers, shall furnish, and install and maintain a V-notch sharp crested weir in a wood frame on the main sewers as directed by the Engineer. Maximum allowable infiltration shall be 50 gallons per mile, per inch of dia. of sewer per 24 hour day at any time.
- 11.3. TEST, EXFILTRATION: In areas where ground water is not encountered in sewer construction, or it is desired to run exfiltration tests, the Contractor shall furnish and install all necessary materials, equipments, shall supply water, etc., and shall run exfiltration tests to determine acceptance of the sewer. The maximum allowable exfiltration shall be 50 gallons per mile per inch of diameter of sewer per 24 hour day at any time based on two foot minimum internal head.

CHARLES S

TOCO

Item # 6.

Engineering, Le. GREN CONE SPRINGS, FL. 32043

SITE IMPROVEMENTS FOR VINEYARD TRANSITIONAL CENTER SPRINGS (

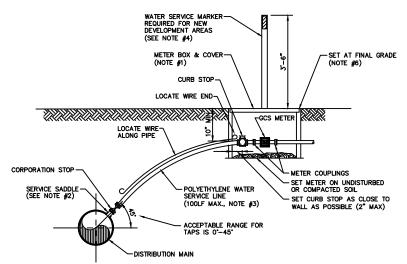
REVISIONS SHEET NO. 120

- 1. THE SKETCHES ABOVE INDICATE TYPICAL WATER SERVICE AND METER BOX LOCATIONS, ACTUAL LOCATIONS OF BOXES MAY VARY SLIGHTLY ACCORDING TO FIELD CONDITIONS ENCOUNTERED. TYPICALLY, THE METER BOX SHALL BE LOCATED 1.0' OFF OF THE R/W LINE.
- 2. UNLESS SPECIFIED OTHERWISE BY THE CITY OF GREEN COVE SPRINGS, THE METER BOX SHALL BE LOCATED 1.0' OFF OF THE R/W LINE, AND 1.0' FOOT INSIDE OF THE PROLONGATION OF ONE OF THE SIDE PROPERTY LINES. IF A CONFLICT EXISTS WITH OTHER UTILITIES, THE METER BOX MAY BE ADJUSTED TO FOUR FEET (MAX.) INSIDE PROPERTY LINES (IN LIEU OF 1.0' FEET). UNLESS APPROVED OTHERWISE BY THE THE METER BOX SHALL BE LOCATED IN NON-TRAFFIC AREAS (NOT IN SIDEWALKS OR DRIVEWAYS). IF AN UNAPPROVED METER BOX IS IDENTIFIED BY THE CITY, THEN THE CONTRACTOR OR CUSTOMER SHALL BE RESPONSIBLE FOR THE COST OF RELOCATING ANY METER BOX WHICH IS LOCATED IN THE SIDEWALK OR DRIVEWAY OR THE COST TO PROVIDE THE CORRECT METER BOX. THE CITY SHALL APPROVE ALL DEVIATIONS TO THE ABOVE PRIOR TO CONSTRUCTION.
- 3. IF DRAINAGE OR OTHER EASEMENT IS LOCATED BETWEEN LOTS, METER BOXES SHALL BE LOCATED AT THE EASEMENT LINE BUT OUTSIDE THE EASEMENT AREA.
- FOR SINGLE SERVICES, THE HORIZONTAL DISTANCE (PERPENDICULAR TO THE MAIN) BETWEEN THE SERVICE'S SADDLE AND THE METER BOX SHALL BE 2 FEET MAXIMUM. FOR DOUBLE 3/4 SERVICES, THE 2 POLY MAIN SHALL BE LOCATED CENTERED BETWEEN THE TWO METER BOXES. LOCATE WIRE IS REQUIRED ON ALL SERVICES. THE WIRE SHALL RUN FROM THE METER BOX TO THE MAIN (WITH NO CONNECTION TO MAIN WIRE WITH THE LAST 24 INCHES STRIPPED OF INSULATION/BARE WIRE AS GROUND), ALL EXCEPTIONS TO THIS REQUIREMENT MUST BE APPROVED BY THE CITY OF GREEN COVE SPRINGS. THIS WILL ASSIST IN LOCATING EXISTING SERVICE LINES IN THE FUTURE.

5. GANG WATER SERVICES: FOR 3 OR 4 SERVICES IN ONE AREA, A DUCTICLE IRON PIPE (D.I.P.) WATER MAIN EXTENSION W/LOCATE WIRE MAY BE UTILIZED ON EITHER SHORT—SIDE OR LONG—SIDE SERVICES WHERE SHOWN ON THE DRAWINGS. LOCATE WIRE SHALL EXTEND FROM ONE METER BOX TO CURB STOP AT WATER MAIN. FOR 5 OR MORE SERVICES IN ONE AREA, A WATER MAIN EXTENSION W/LOCATE WIRE MAY BE UTILIZED ON EITHER SHORT—SIDE OR LONG—SIDE SERVICES WHERE SHOWN ON THE DRAWINGS (TAPS STAGGERED AND AT 2 FEET ON CENTER (MINI). FOR WATER SUPPLY HEADERS WHERE 5 OR MORE TAPS ARE CONSTRUCTED, THE HEADER PIPE SHALL BE 4" AT A MINIMUM. EXAMPLE: CONSTRUCT A 4" MAIN D.I. CROSSING THE STREET FOR 5 RESIDENTIAL CUSTOMERS, UTILIZING 4" G.V., 4" PIPE, 4"X1" SADDLES AND 1 CURB STOPS (NO GLUED TEE FITTINGS). THE 4 OR LARGER D.I.P. WATER MAIN MUST BE SIZED AND DESIGNED BY THE ENGINEER.

6. ALL COMMERCIAL WATER SERVICES SHALL BE 2" POLYETHYLENE PIPING CONNECTED TO 2" CURB STOP IN METER BOX, UNLESS OTHERWISE APPROVED BY THE CITY.

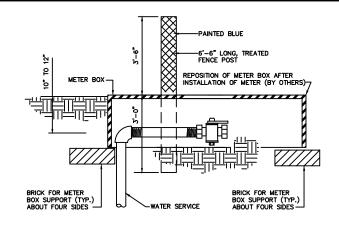
WATER SERVICE INSTALLATIONS 2" AND SMALLER METER



NOTES

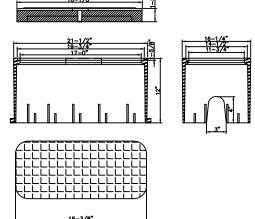
- 1. SEE CITY OF GREEN COVE SPRINGS APPROVED MATERIALS MANUAL AND SYSTEM DETAILS FOR REQUIREMENTS.
- SINGLE BAND SADDLES MAYBE UTILIZED ON NEW 1" WATER SERVICES WHICH ARE INSTALLED ON A DRY 10" SIZE OR SMALLER WATER MAIN (NEW WATER MAIN CONSTRUCTION). FOR WET TAPS OR WATER MAINS 12" SIZE AND LARGER, A DOUBLE BAND SADDLE IS REQUIRED.
- 3. NO OPEN CUT UNDER ROADWAY PAVING ALLOWED UNLESS THE ROADWAY IS BEING RECONSTRUCTED OR IF DIRECTED OTHERWISE BY CITY OF GREEN COVE SPRINGS. CONSTRUCT POLY LINE WITH 36" (MIN.) COVER UNDER ROADWAYS. THE POLY WATER SERVICE LINE SHALL BE SAME SIZE AS THE METER (3/4" MINIMUM) AND BE INSTALLED PERPONICULAR TO THE MAIN AND NOT EXCEED 100LF UNLESS OTHERWISE APPROVED BY CITY OF GREEN COVE SPRINGS.
- 4. INSTALL PVC PLUG IN ALL CURB STOPS IF WATER SERVICE IS "NOT IN USE" (LE.: IF NO METER IS INSTALLED). IN ADDITION, INSTALL A 6", 6" P.T. FENCE POST (TOP PAINTED BLUE) 12" OFF SIDE OF METER BOX. THE REMOVAL OR TRANSFER OF A WATER SERVICE SHALL INCLUDE BRASS METER COUPLINGS (HEX ON
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF THE BOXES, METERS OR ELECTRONIC DEVICES IF DAMAGED BY THE CONTRACTOR DURING THE CONSTRUCTION PERIOD.
- 6. METER BOX AND TOP SHALL BE CLEAR OF ALL DEBRIS TO ALLOW FULL ACCESS TO BOX (I.E., NO DIRT,
- 7. LOCATE WIRING REQUIRED ON ALL LONG AND SHORT SERVICES.

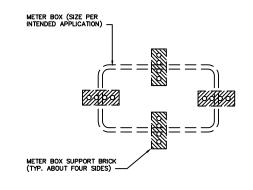
WATER SERVICE DETAIL- 2" AND SMALLER METER



# WATER SERVICE MARKER POST

NOTE:
ALL SERVICES ARE TO BE CLEARLY MARKED BY A TREATED 6'-6" LONG MARKER POST PAINTED BLUE. ALL SERVICES ARE TO BE EXTENDED ABOVE GRADE UNTIL COMPLETION OF ALL GRADING ACTIVITIES. ONCE FINAL ROAD GRADING IS COMPLETE, LOWER SERVICES BY CUTTING OFF RISER 10" TO 12" BELOW FINAL GRADE AND INSTALL 90" BEND, NIPPLE AND LW BALL VALVE AT THAT ELEVATION. SET METER BOX OVER ENTIRE HORIZONTAL SECTION OF SERVICE I LINE FROM LAST 90" BEND TO THE FIND METER BOX OVER ENTIRE HORIZONTAL SECTION C SERVICE LINE FROM LAST 90° BEND TO THE END OF THE CURB STOP. BOX TO BE REPOSITIONED WHEN THE METER IS INSTALLED. MARKER POST TO BE INSTALLED ADJACENT TO AND LOCATED



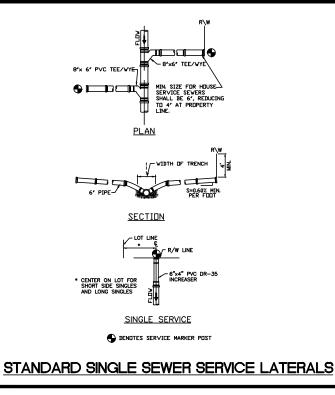


METER BOX SUPPORT DETAIL

USF 170E MANHOLE FRAME & COVE FINISHED GRADE WHEN MANHOLE IS WITHIN LIMITS OF PAVEMENT CUT-DUT TOP 1/2
OF PVC END CAP-UNDISTURBED SOIL MIN. BEARING CAPACITY: 2000 P.S.F. NOTE: FOR ADDITIONAL MANHOLE SPECIFICATIONS, SEE 'SANITARY SEVER MANHOLE' DETAIL THIS SHEET.
MAXIMUM ALLOVABLE DIFFERENCE IN INVERT ELEVATION VITHOUT INTERNAL DROP CONNECTION IS 24'

TYPICAL GRAVITY SEWER DROP PIPE

CONNECTION TO MANHOLE



NOTE:
MIN. WALL THIKNESS: .25"
DOUBLE WALL BODY W/STRUCTURAL SUPPORT RIBS
W/MIN. THINCKNESS: W/
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STANG TED MOLDED STRUCTURAL FOAM RECYCLED SITE IMPROVEMENTS
FOR
VINEYARD TRANSITIONAL CENTER 15-3/8 METER BOX & SOLID BLUE LID

Item # 6.

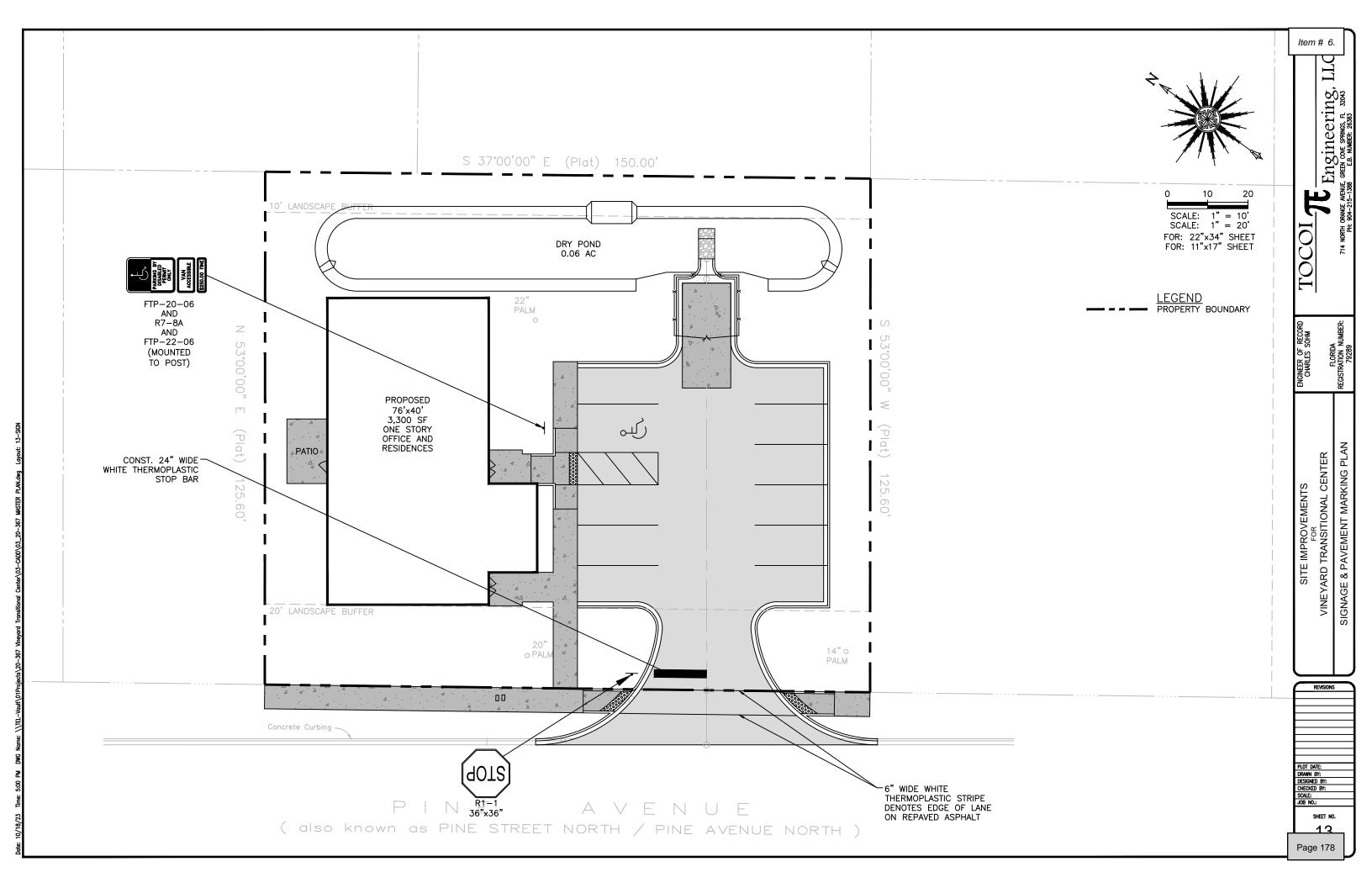
Engineering,

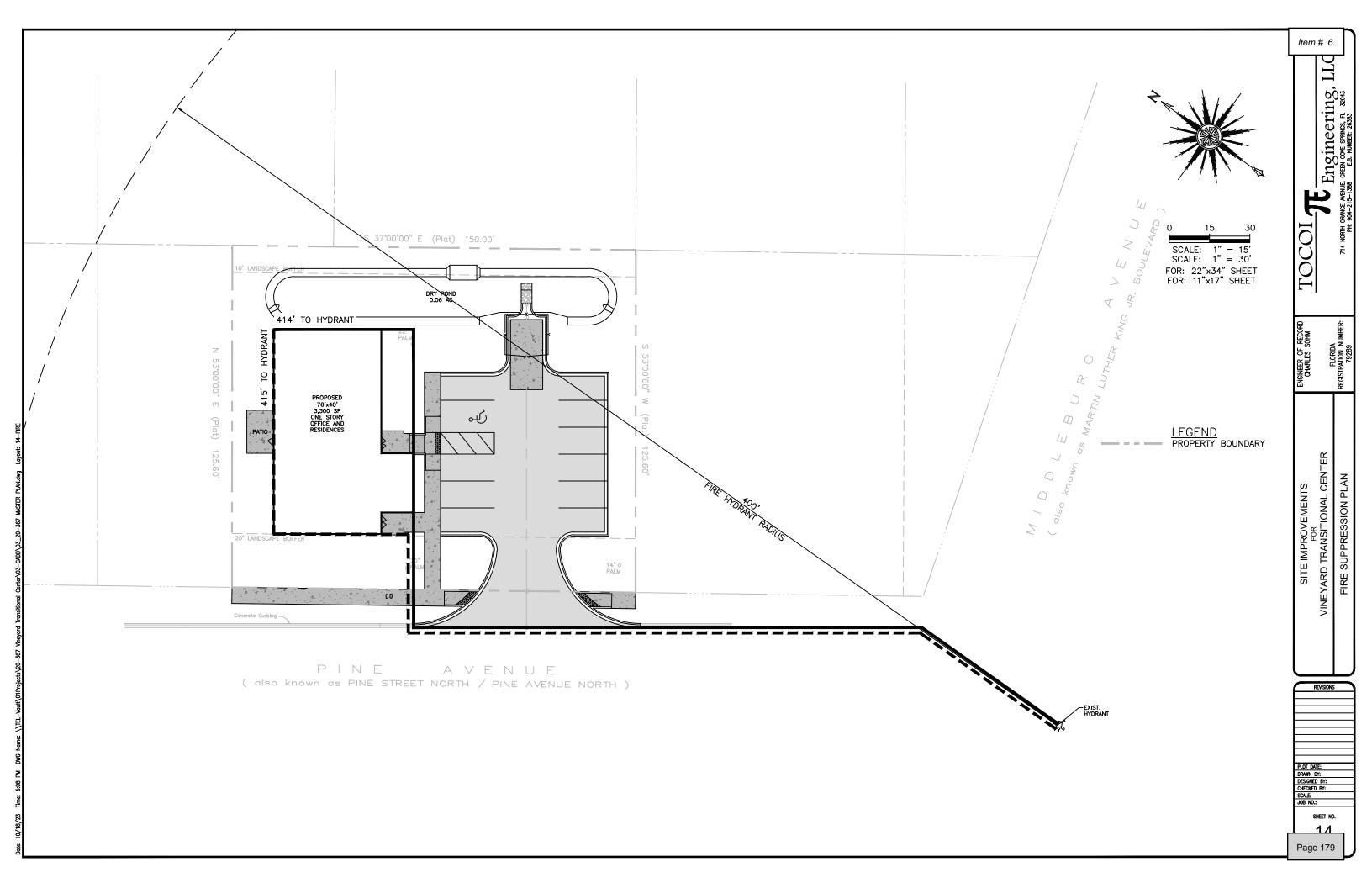
REVISIONS

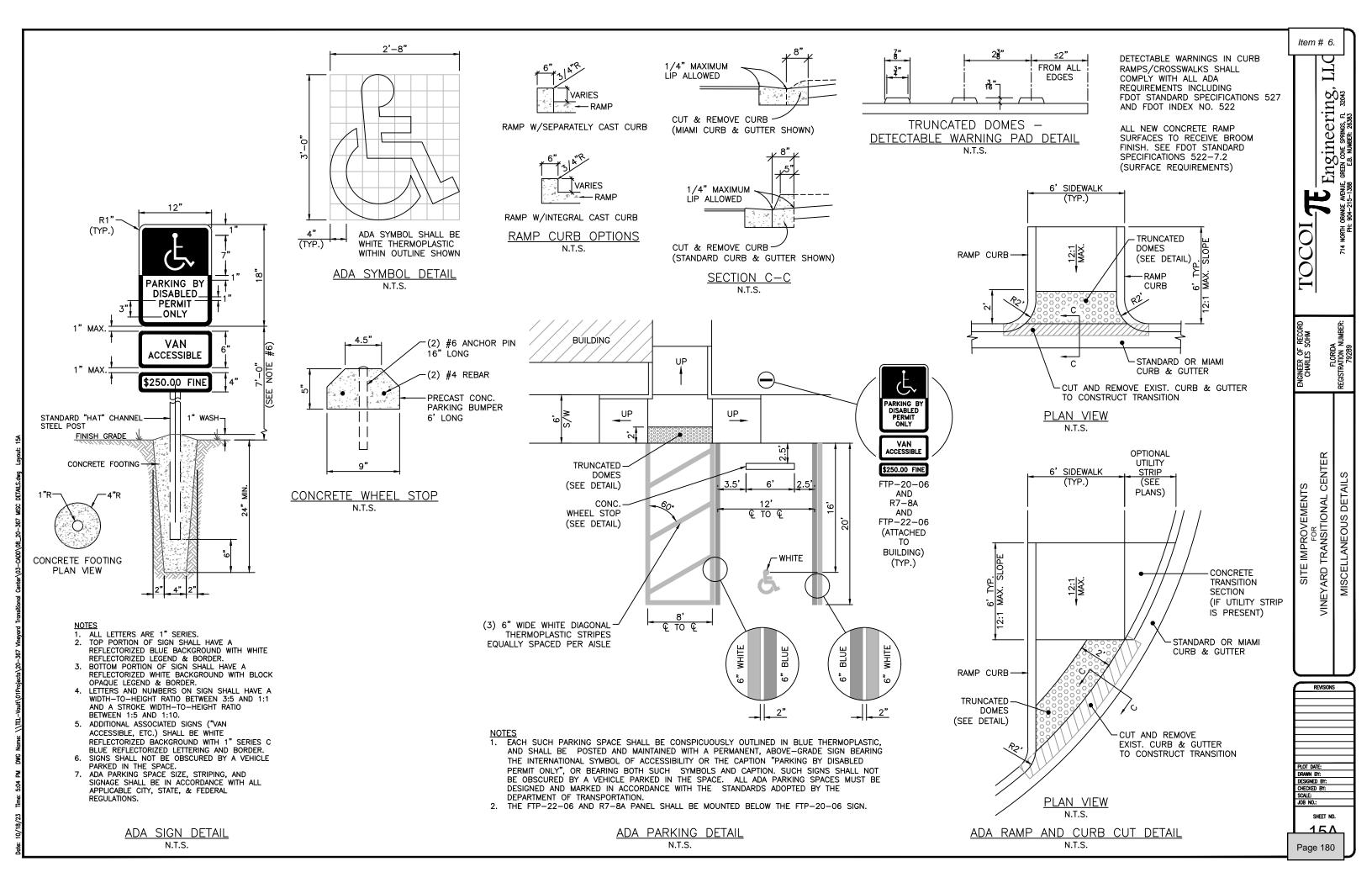
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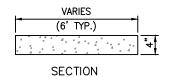
SHEET NO.

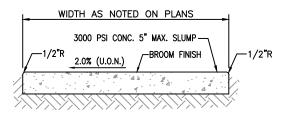
120



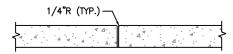




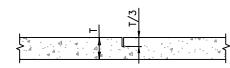




SECTION DETAILS



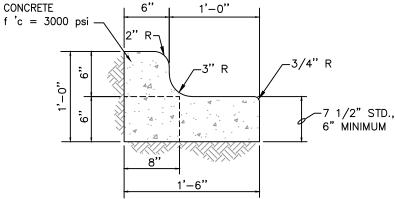
PROVIDE AT INTERVALS SHOWN IN PLAN VIEW CONTROL JOINT (1-1/2" DEEP)



PROVIDE AT INTERVALS SHOWN IN PLAN VIEW SAWCUT

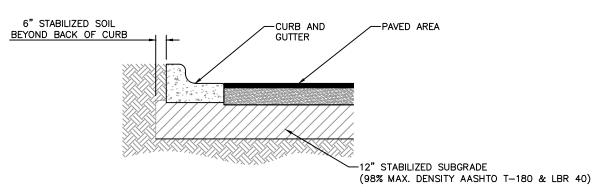
SIDEWALKS SHALL BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE, CLASS NON-STRESS (NS), AND ALL METHODS OF CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDING TO THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.

CONCRETE SIDEWALK DETAILS

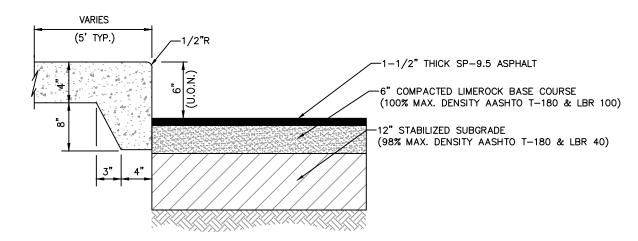


NOTE: WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT AND THE THICKNESS OF THE LIP SHALL BE 6", UNLESS OTHERWISE SHOWN ON PLANS.

# STANDARD TYPE CURB & GUTTER



# SOIL STABILIZATION DETAIL N.T.S.



NOTE: UNDERCUT ALL UNSUITABLE MATERIAL AND BACKFILL WITH CLEAN FREE-DRAINING SAND (BOTTOM OF CUT SHALL BE 24" MIN. BELOW FINISH GRADE)

SIDEWALK DETAIL AT PAVEMENT

AND

NEW ASPHALT PAVEMENT SECTION

N.T.S.

SHEET NO.

Page 181

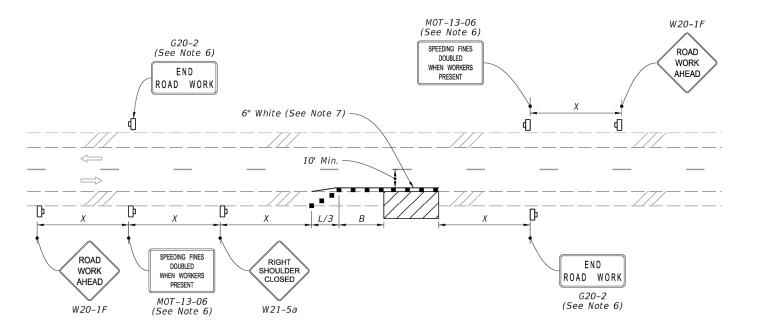
2. L = Taper LengthX = Work Zone Sign SpacingB = Buffer LengthSee Index 102-600 for "L", "X", "B", and channelizing device spacing values.

- 3. Where work activities are between 2' and 15' from the edge of traveled way, the Engineer may omit signs and channelizing devices for work operations 60 minutes or less.
- 4. When four or more work vehicles enter the through traffic lanes in a one hour period (excluding establishing and terminating the work area), use a flagger or lane closure to accommodate work vehicle ingress and
- 5. For work less than 2' from the traveled way and work zone speed is greater than 45 MPH, use a lane closure.
- 6. The "Speeding Fines Doubled When Workers Present" signs (MOT-13-06) and "End Road Work" Signs (G20-2) along with the associated work zone sign spacing distances may be omitted when the work operation is in place for 24 hours or less.
- 7. Temporary pavement markings may be omitted when the work operation is in place for 3 days or less.
- 8. Omit "Shoulder Closed" signs (W21-5a) along with associated work zone sign spacing distances for work on the median.
- 9. When there is no paved shoulder, the "Worker" sign (W21-1) may be used instead of the "Shoulder Closed" sign (W21-5a).

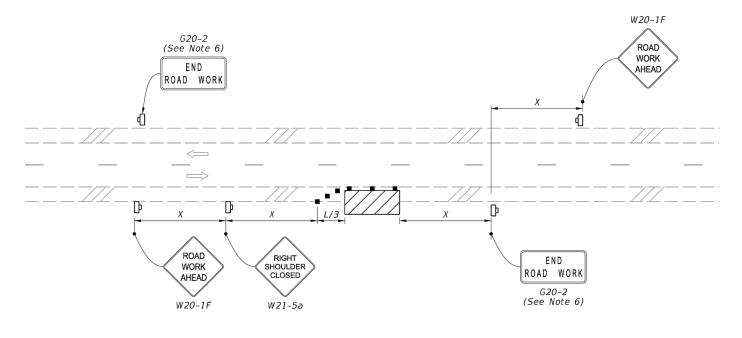
# SYMBOLS:

Work Area

- Channelizing Device (See Index 102-600)
- ₩ork Zone Sign
- Lane Identification and Direction of Traffic



TWO-LANE ROADWAY = SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY WITH WORK ZONE SPEED OF 45 MPH OR LESS



= TWO-LANE ROADWAY === SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

REVISION 11/01/21 ≥ DESCRIPTION:

FDOT

FY 2023-24 STANDARD PLANS

TWO-LANE AND MULTILANE, WORK ON SHOULDER

INDEX 102-602 SHEET

1 of 2

Item # 6.

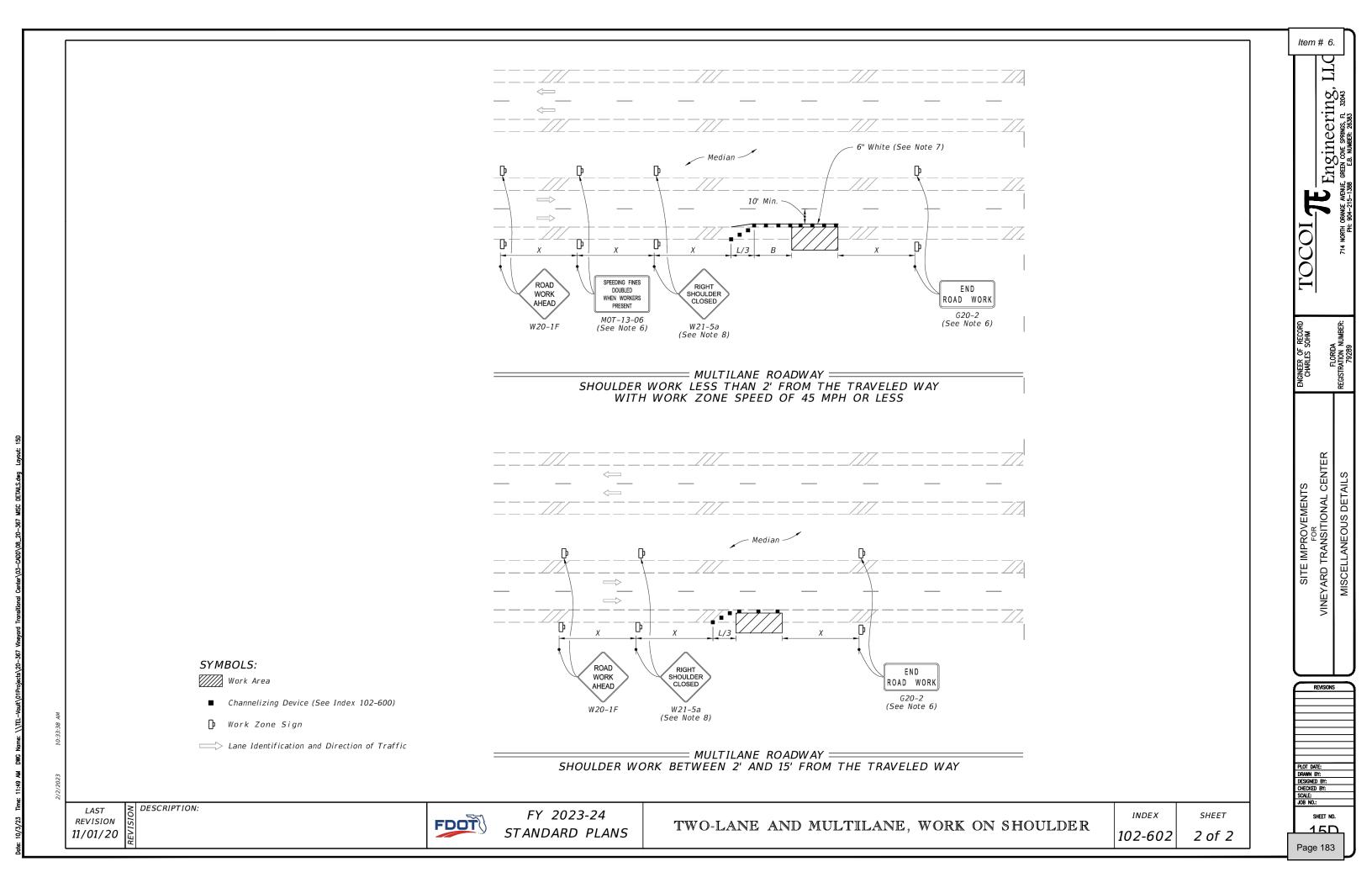
Engineering

FOR VINEYARD TRANSITIONAL CENTER

REVISIONS

SHEET NO.

SITE IMPROVEMENTS



REVISIONS

SHEET NO.

# CITY'S REQUIREMENTS SITE DESCRIPTION

PROJECT NAME AND LOCATION: VINEYARD TRANSITIONAL CEN 518 PINE AVENUE NORTH

OWNER NAME AND ADDRESS: VINEYARD TRANSITIONAL CENTER VINEYARD TRANS 518 PINE AVENUE NORTH GREEN COVE SPRINGS, FL 32043

GREEN COVE SPRINGS, FL 32043

LOT 6 BLK 21 N.S. GCS AS REC OR 4159 PG 1719

SOIL DISTURBING ACTIVITIES WILL INCLUDE: CLEARING AND GRUBBING; EARTHWORK, PAVEMENT AND GRADING; STORM SEWER, UTILITIES, AND PREPARATION FOR FINAL PLANTING

RUNOFF CURVE NUMBERS:

PRE-CONSTRUCTION = DURING CONSTRUCTION =

SOILS: SEE SOIL BORING REPORT FOR SOILS DATA

SITE MAPS:

\* SEE ATTACHED GRADING PLAN FOR PRE & POST DEVELOPMENT GRADES,
AREAS OF SOILS, DISTURBANCE, LOCATION OF SURFACE WATERS, WETLANDS,
PROTECTED AREAS, MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS
AND STORM WATER DISCHARGE POINTS.

\* SEE ATTACHED EROSION & TURBIDITY CONTROL PLAN FOR LOCATION OF TEMPORARY STABILIZATION PRACTICES, AND TURBIDITY BARRIERS

\* SEE GENERAL NOTES FOR REQUIRMENTS FOR TEMPORARY AND

TOTAL AREA TO BE DISTURBED =

NAME OF RECEIVING WATERS:

### CONTROLS

TOTAL AREA OF SITE =

THIS PLAN UTILIZES BEST MANAGEMENT PRACTICES TO CONTROL EROSION AND TURBIDITY CAUSED BY STORM WATER RUN OFF. AN EROSION AND TURBIDITY PLAN HAS BEEN PREPARED TO INSTRUCT THE CONTRACTOR ON PLACEMENT OF THESE CONTROLS. IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL AND MAINTAIN THE CONTROLS PER PLAN AS WELL AS ENSURING THE PLAN IS PROVIDING THE PROPER PROTECTION AS REQUIRED BY FEDERAL STATE AND LOCAL LAWS. REFER TO "CONTRACTORS RESPONSIBILITY" FOR A VERBAL DESCRIPTION OF THE CONTROLS THAT MAY BE IMPLEMENTED.

STORM WATER MANAGEMENT

STORM WATER DRAINAGE WILL BE PROVIDED BY (DESRIPTION:) \_\_\_

FOR THE PROJECT, AREAS WHICH ARE NOT TO BE CONSTRUCTED ON, BUT WILL BE REGRADED SHALL BE STABILIZED IMMEDIATELY AFTER GRADING IS COMPLETE, WHEN CONSTRUCTION IS COMPLETE, A TOTAL OF \_\_\_\_ ACRES WILL HAVE BEEN REGRADED. \_\_\_\_ ACRES LEFT UNDISTURBED. THE SITE DISCHARGES TO A WET DETENTION SYSTEM, WHERE PRACTICAL, TEMPORARY SEDIMENT BAS WILL BE USED TO INTERCEPT SEDIMENT BEFORE ENTERING THE PERMANENT DETENTION BASIN. THE WET DETENTION SYSTEM IS DESIGNED WITH A ..... DAY MINIMUM RESIDENCE VOLUME. THIS IS IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH BY THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT FOR THIS TYPE OF DEVELOPMENT AT THE TIME OF PERMITTING.

TIMING OF CONTROLS/MEASURES

REFER TO " CONTRACTORS RESPONSIBILITY" FOR THE TIMING OF CONTROL /MEASURES.

CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS

IN ACCORDANCE WITH FEDERAL STATE AND LOCAL LAWS RELATED TO STORM WATER MANAGEMENT AND EROSION AND TURBIDITY CONTROLS, THE FOLLOWING PERMITS HAVE BEEN OBTAINED.

D.E.R. DREDGE/FILL PERMIT S.J.R.W.M.D. M.S.S.W. PFRMIT#

POLLUTION PREVENTION PLAN CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE

INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR

CITY ENGINEER

THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S requirements outlined below and those measures shown on the erosion AND TURBIDITY CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS. DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION THE CONTRACTOR MAY BE REQUIRED TO ADD FLOCCULANTS TO THE RETENTION SYSTEM PRIOR TO PLACING

GENERAL

### SEQUENCE OF MAJOR ACTIVITIES:

### THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:

- INSTALL STABILIZED
- CONSTRUCTION ENTRANCE INSTALL SILT FENCES AND HAY
- CLEAR AND GRUB FOR DIVERSION SWALES/DIKES AND SEDIMENT CONSTRUCT SEDIMENTATION
- CONTINUE CLEARING AND

PERFORM PRELIMINARY GRADING

- ON SITE AS REQUIRED STABILIZE DENUDED AREAS AND STOCKPILES AS SOON AS
- 9. INSTALL UTILITIES, STORM SEWER,
- CURBS & GUTTER APPLY BASE TO PROJECT 11. COMPLETE GRADING AND
- INSTALL PERMANENT SEEDING/SOD AND PLANTING COMPLETE FINAL PAVING 13. REMOVE ACCUMULATED
- SEDIMENT FROM BASINS ACTIVITY IS COMPLETE AND THE STOCK PILE TOP SOIL IF REQUIRED SITE IS STABILIZED, REMOVE ANY SWALES/DIKES AND RESEED/SOD

### TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES AND HAY BALES, STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN WITH THE PLANS, AFTER THE ENTIRE SITE IS STABILIZED. THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND THE EARTH DIKE/SWALES WILL BE REGRADED/REMOVED AND IN ACCORDANCE WITH THE EROSION & TURBIDITY CONTROL PLAN.

## CONTROLS

IT IS THE CONTRACTORS RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THE EROSION AND TURBIDITY CONTROL
PLAN. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO ENSURE THESE
CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPI TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROLS SHOW N THE EROSON AND TURRIDITY CONTROL PLAN AND ADD ADDITIONAL CONTE MEASURES, AS REQUIRED, TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE IMPLEMENTED BY THE CONTRACTOR AS REQUIRED BY THE EROSION AND TURBIDITY CONTROL PLAN AND AS REQUIRED TO MEET THE EROSION AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.

FROSION AND SEDIMENT CONTROLS

HAY BALE BARRIER: HAY BALE BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE

A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT. B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM

CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.
C. WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS. D. EVERY EFFORT SHOULD BE MADE TO LIMIT THE USE OF STRAW BALE BARRIERS CONSTRUCTED IN LIVE STREAMS OR IN SWALES WHERE THERE IS THE POSSIBILITY OF A WASHOUT. IF NECESSARY, MEASURES SHALL BE TAKEN TO PROPERLY ANCHOR BALES TO INSURE

AGAINST WASHOUT. REFER TO CITY STANDARD DETAIL D-913 FOR CONSTRUCTING THE HAY

FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW

PILIER PARKIC BARRIER: FILIER PARKIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:

A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT. B. IM MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES. REFER TO CITY STANDARD DETAIL D-910 FOR PROPER CONSTRUCTION OF THE FILTER FABRIC BARRIER.

BRUSH BARRIER WITH FILTER FABRIC: BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE.

LEVEL SPREADER: A LEVEL SPREADER MAY BE USED WHERE SEDIMENT-FREE STORM RUNOFF IS INTERCEPTED AND DIVERTED AWAY FROM THE GRADED AREAS ONTO UNDISTURBED STABILIZED AREAS. THIS PRACTICE APPLIES ONLY IN THOSE SITUATIONS WHERE THE SPREADER CAN BE

CONSTRUCTED ON UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL LIP IS STABILIZED. THE WATER SHOULD NOT BE ALLOWED TO RECONCENTRATE AFTER RELEASE. LEVEL SPREADER SHALL BE CONSTRUCTED N ACCORDANCE TO CITY STANDARD DETAIL D-914.

STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY.

EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 10 ACRES. THIS REQUIREMENT MAY BE WAIVED FOR LARGE PROJECTS WITH AN EROSION CONTROL PLAN WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREAS WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT

INLET PROTECTION: INLETS AND CATCH BASINS WHICH DISCHARGE DIRECTLY OFF-SITE SHALL BE PROTECTED FROM SEDIMENT-LADEN STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS

TEMPORARY SEEDING: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN 30 DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING.

TEMPORARY SEEDING AND MULCHING: SLOPES STEEPER THAN 6:1 THA FALL WITHIN THE CATEGORY ESTABLISHED IN PARAGRAPH 8 ABOVE SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES AREA ADEQUATE TO PREVENT MOVEMENT OF SEED AND MULCH.

TEMPORARY CRASSING: THE SEEDED OR SEEDED AND MILLOHED AREA(S) SHALL BE ROLLED AND WATERED OR HYDROMULCHED OR OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER. TEMPORARY GRASSING SHALL BE THE SAME MIX & AMOUNT REQUIRED

TEMPORARY REGRASSING: IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75 PERCENT GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED

12. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.

THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE

PERMANENT SEEDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL, AS A MINIMUM, BE SEEDED. THE SEEDING MIX MUST PROVIDE BOTH LONG-TERM VEGETATION AND RAPID GROWTH SEASONAL VEGETATION. SLOPES STEEPER THAN 4:1 SHALL BE SEEDED AND MULCHED

TEMPORARY DIVERSION DIKE: TEMPORARY DIVERSION DIKES MAY BE USED TO DIVERT RUNOFF THROUGH A SEDIMENT—TRAPPING FACILITY. AND IT SHALL BE CONSTRUCTED IN ACCORDANCE TO D—914.

TEMPORARY SEDIMENT TRAP: A SEDIMENT TRAP SHALL RE INSTALLED IN IEMPURARY SEDIMENT TRAP: A SEDIMENT TRAP SHALL BE INSTALLED T AN DRAINAGEWAY AT A STORM DRAIN INLET OR AT OTHER POINTS OF DISCHARGE FROM A DISTURBED AREA. THE FOLLOWING SEDIMENT TRAPS MAY BE CONSTRUCTED EITHER NDEPENDANTLY OR IN CONJUNCTION WITH A TEMPORARY DIVERSION

A. BLOCK & GRAVEL SEDIMENT FILTER - THIS PROTECTION IS APPLICABLE WHERE HEAVY FLOWS AND/OR WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE REFER TO D-902 FOR CONSTRUCTION OF A CURB INLET SEDIMENT FILTER, AND D-904 FOR CONSTRUCTION OF A

B. GRAVEL SEDIMENT TRAP - THIS PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES & UNPROTECTED AREAS. REFER TO D—903 FOR CONSTRUCTION OF CURB INLET & DROP

C. DROP INLET SEDIMENT TRAP — THIS PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (S < 5%) AND WHERE SHEET OR OVERLAND FLOWS (Q < 0.5 CFS) ARE TYPICAL. THIS METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS SUCH 

3. OUTLET PROTECTION: APPLICABLE TO THE OUTLETS OF ALL PIPES AND PAVED CHANNEL SECTIONS WHERE THE FLOW COULD CAUSE EROSION & SEDIMENT PROBLEM TO THE RECEIVING WATER BODY. SILT FENCES & HAY BALES ARE TO BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE STRUCTURE AS SHOWN ON THE OUTLET PROTECTION DETAIL

SEDIMENT BASIN: WILL BE CONSTRUCTED AT THE COMMON DRAINAGE LOCATIONS THAT SERVE AN AREA WITH 10 OR MORE DISTURBED ACRES AT ONE TIME, THE PROPOSED STORM WATER PONDS (OR TEMPORARY PONDS) WILL BE CONSTRUCTED FOR USE AS SEDIMENT BASINS. THESE SEDIMENT BASINS MUST PROVIDE A MINIMUM OF 3,600 CUBIC FEET OF

THE 3.600 CUBIC FEET OF STORAGE AREA PER ACRE DRAINED DOES NOT APPLY TO FLOWS FROM OFFSITE AREAS AND FLOWS FROM ONSITE AREAS THAT ARE EITHER UNDISTURBED OR HAVE UNDERGONE FINAL STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE ACCORDANCE WITH THE SPECIFICATIONS FOR STRUCTURAL FILL. ALL SEDIMENT COLLECTED IN PERMANENT OR TEMPORARY SEDIMENT TRAPS MUST BE REMOVED UPON FINAL STABILIZATION.

### OTHER CONTROLS

### WASTE MATERIALS

CONTRACTOR'S REQUIREMENTS

ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMEN REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL, ALL PROCEDURE FOR WASTE DISPOSAL, NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES
THE DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR

### HAZARDOUS WASTE

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT. THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS WILL BE RESPONSIBLE FOR

ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DEPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS.

### OFFSITE VEHICLE TRACKING

A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEPT DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING
MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A

## INVENTORY FOR POLLUTION PREVENTION PLAN

THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION:

Concrete Asphalt Tar Detergents	Fertilizers Petroleum Based Products Cleaning Solvents Paints	☐ Wood ☐ Masonry Blocks ☐ Roofing Materia ☐ Metal Studs
<b></b>	<b></b>	□

# SPILL PREVENTION

MATERIAL MANAGEMENT PRACTICES THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

### GOOD HOUSEKEEPING

THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.

\* AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO

ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.

PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE

SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS

WHENEVER POSSIBLE. ALL OF A PRODUCT WILL BE USED UP BEFORE

MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.

THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS ONSITE RECEIVE PROPER USE AND DISPOSAL

### HAZARDOUS PRODUCTS

THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.

\* PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT

ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY

\* IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

### PETROLEUM PRODUCTS

ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S

### FERTILIZERS

FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED AREA THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

### PAINTS

ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDI TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND

MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL MILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.

MATERIALS AND FOLIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS. GLOVES, GOGGLES, LIQUID ABSORBENT (I.e. KITTY LITTER OR EQUAL), SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY

### ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.

THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE OF THE SPILL.

PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT

THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH RECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE. IN THE OFFICE TRAILER ONSITE.

# MAINTENANCE/INSPECTION PROCEDURES

EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.

\* NO MORE THAN 10 ACRES OF THE SITE WILL BE DENUDED AT ONE TIME WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.

\* ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY TO DAY SITE OPERATION OR SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK AND FOLLOWING ANY STORM EVENT OF 0.25 INCHES OR GREATER.

ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.

BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE—THIRD THE HEIGHT OF THE FENCE.

\* SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.

THE SEDIMENT BASINS WILL BE INSPECTED FOR THE DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB, WHICHEVER COMES FIRST.

DIVERSION DIKES/SWALES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.

\* TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.

\* A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. A COPY OF THE REPORT FORM TO BE COMPLETED BY THE INSPECTION. A CUPY OF THE REPORT FORM TO BE COMPLETED BY THE INSPECTION IS ATTACHED.

THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR ANY FEDERAL, STATE OR LOCAL AGENCY APPROVING SEDIMENT AND AND ERGSION PLANS, OR STORM WATER MANAGEMENT PLANS.

THE REPORTS SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED AND THE NOTICE OF ERMINATION IS SUBMITTED THE REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE.

\* THE SITE SUPERINTENDENT WILL SELECT UP TO THREE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.

PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE.
 SUPERINTENDENT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSTE IN GOOD WORKING POEDER.

### NON-STORM WATER DISCHARGES

IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:

\* WATER FROM WATER LINE FLUSHING

\* PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED).

\* UNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION). ALL NON-STORM WATER DISCHARGES WILL BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE.

## CONTRACTOR'S CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

responsible for/duties	GENERAL CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR
BUSINESS NAME AND ADDRESS OF CONTRACTOR & ALL SUBS					
SIGNATURE					

ESIGNED BY:

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PROJECT:	STORM WATER POLLUTION PREVENTION PLAN INSPECTION AND MAINTENANCE REPORT FORM STRUCTURAL CONTROLS  DATE:  EARTH DIKES/SWALES	DIKE OR FROM TO IS DIKE/SWALE IS THERE ENIDENCE OF STABILIZED ? OVERTOPPING	MAINTENANCE REQUIRED FOR EARTH DIKE/SWALE:	TO BE PERFORMED BY.  CATCH BASIN/CURB INLET/OUTFALL TURBIDITY CONTROLS  STRUCTURE/ CONTROLS IN OF CLOSING/MASHOUT CONTROLS IN NEED TO CONTROLS IN NEED TO CONTROLS IN OF REPLACING  OUTFALL PLACE OR BYPASSING ?  OF REPLACING CONTROL	MAINTENANCE REQUIRED FOR CATCH BASIN/CURB INLETS/OUTFALLS TURBIDITY CONTROLS:  TO BE PERFORMED BY:  TO BE PERFORMED BY:  PAGE 2 OF 4	RESCONS FOR CHANCES.  FRESCONS FOR CHANCES.  RESCONS FOR CHANCES.  FRESCONS FOR CHANCES.  I GETTIVE UNDER PENALTY OF LAW THAT THIS DOCUMENT MAD ALL ANTICOMENTS WERE PRESENCED UNDER TWENDERS WITH CONTROLLED TO SOSION FOR CHANCES.  IN CONTROLLED SOSION FOR CHANCES.  SEMETITE, BESTER, ANY THOUGHT WE PENALTY THE SOSION FOR CHANCES.  SEMETITE, BESTER, ANY THOUGHT OF THE PENSON OF PENSON WITH CHANCES.  SEMETITE, BESTER, ANY THOUGHT OF THE PENSON OF PENSON WITH END STANDARD THE PENSON WITH RESTORATION. THE PENSON OF PENSON WITH PENSON OF THE P	IE EPA'S NATIONAL POLLUTION DISCHARGE ELIMINATION LAN FOR CONSTRUCTION SITES OVER 5 ACRES. THIS VERY RAINFALL EVENT OVER 0.25 INCHES. IT IS IN SET AND DUPLICATED AS NEEDED BY THE CONTRACTOR.
PROJECT:	STORM WATER POLLUTION PREVENTION PLAN INSPECTION AND MAINTENANCE REPORT FORM TO BE COMPLETED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL EVENT OF 0.25 INCHES OR MORE	INSPECTOR'S QUALFICATIONS:	AMOUNT OF LAST RAINE STABILIZATION MEASURES	INSPECTION AREA DATE SINCE DATE OF STABILZED WITH CONDITION LOCATION)  LOCATION)  DISTURBED  DISTURBANCE  (YES/NO)  STABILZED WITH  CONDITION  CONDITION  LOCATION  LO	STABILIZATION REQUIRED:  TO BE PERFORMED BY:  DAGE 1 OF 4	DEPH OF SEDWENT IN SPECTION MATER POLLUTION PREVENTION PLAN INSPECTION AND MAINTENANCE REPORT FORM SEDMENT BASIN  OFFINE GENERAL FROM SEDWENT SEDWENT OF RESPONSE OF THE SEDWENT OF SEDWENT SEDWENT OF	NOTE TO CONTRACTOR:  THIS IS THE CONTRACTORS CERTIFICATION REQUIRED BY THE EPA'S NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES), STORM WATER POLLUTION PREVENTION PLAN FOR CONSTRUCTION SITES OVER 5 ACRES. THIS CERTIFICATION MUST BE COMPLETED WEEKLY AND AFTER EVERY RAINFALL EVENT OVER 0.25 INCHES. IT IS SUGGESTED THAT THIS SHEET BE REMOVED FROM THE PLAN SET AND DUPLICATED AS NEEDED BY THE CONTRACTOR.

PLOT DATE: DRAWN BY: DESIGNED BY: CHECKED BY: SCALE: JOB NO.: SHEET NO. 17 Page 185

REVISIONS

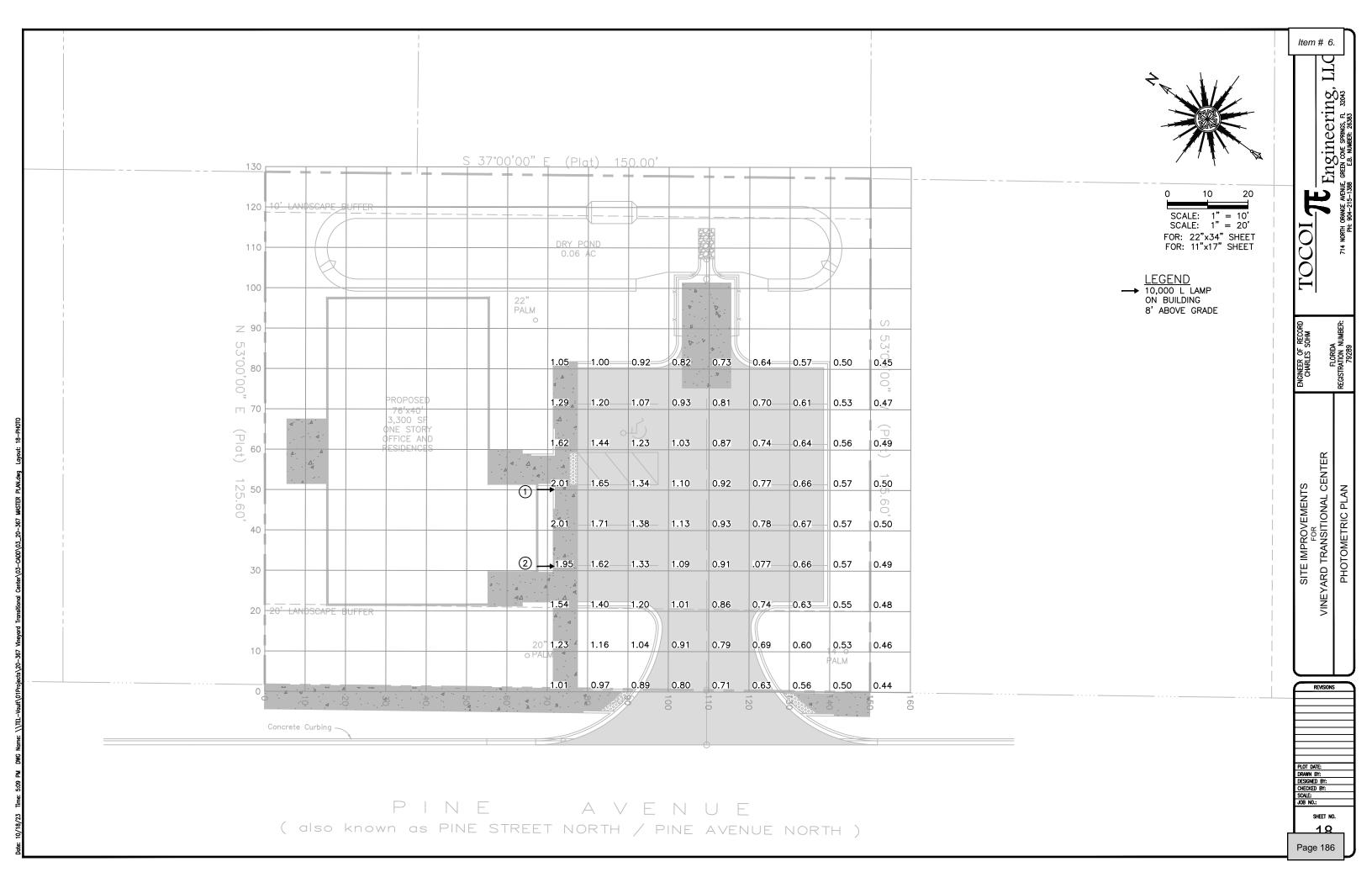
SITE IMPROVEMENTS FOR VINEYARD TRANSITIONAL CENTER

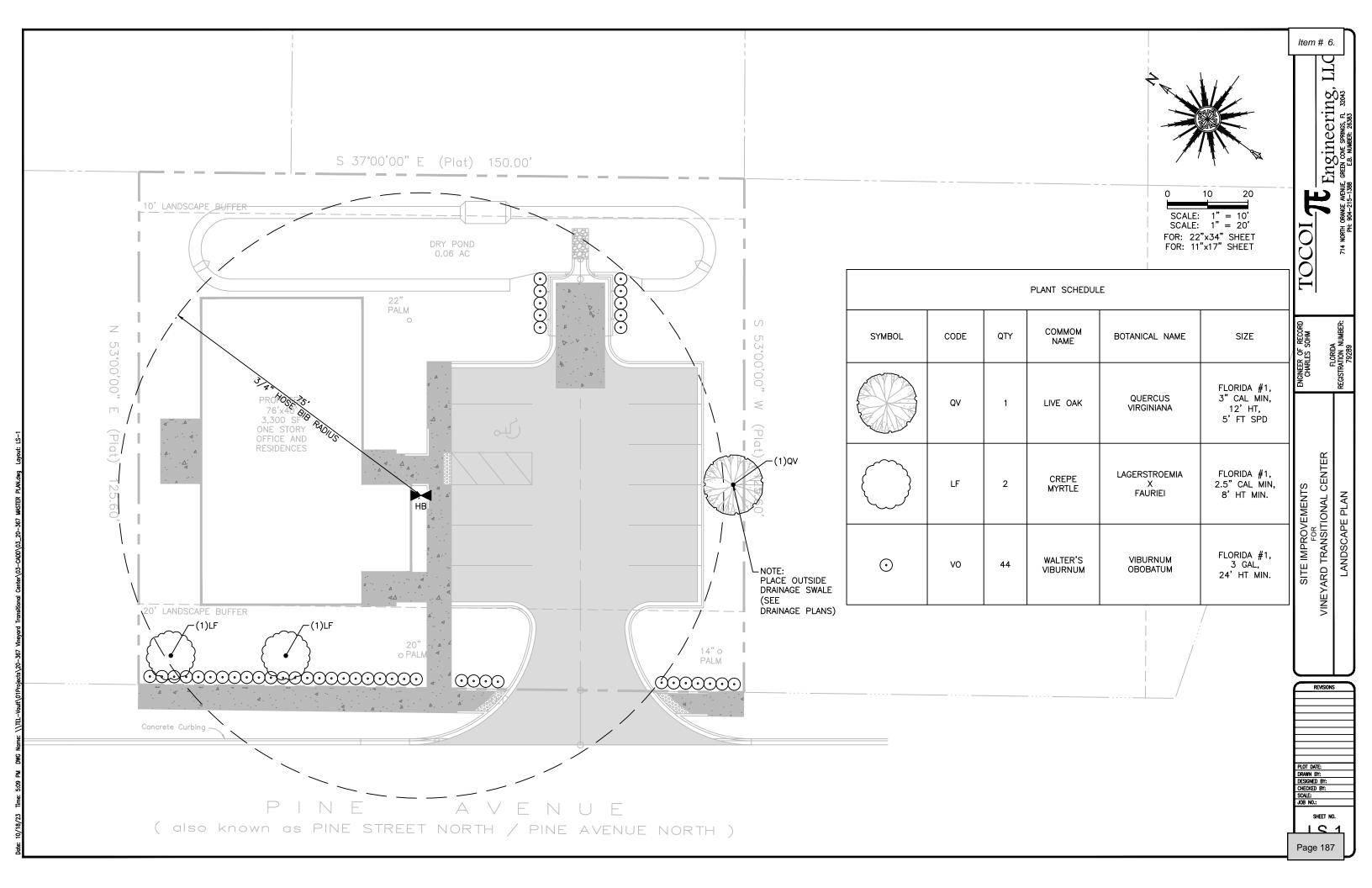
ENGINEER OF RECORD CHARLES SOHM Florida Registration number: 79289

TOCOI

TTC Engineering, 174 NORTH ORANGE AREN CONE SPRINGS, FL. 32043 PH. 904-215-1388 E.B. NUMBER: 26383

Item # 6.





# CITY OF GREEN COVE SPRINGS LANDSCAPE NOTES

- 1. THESE PLANS ARE FOR LANDSCAPE PERMITTING PURPOSES ONLY.
  CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ALL APPROPRIATE RULES AND REGULATIONS.
- 2. TREE PROTECTION BARRIERS ARE TO REMAIN IN PLACE UNTIL ALL SITE DEVELOPMENT IS COMPLETED.
- 3. EXISTING TREES SHOWN ON THIS PLAN ARE THOSE LOCATED BY SURVEYOR. ENGINEER TAKES NO RESPONSIBILITY FOR THEIR LOCATION AND SIZE.
- ENGINEER CAN NOT GUARANTEE EXISTING TREE SURVIVAL FROM CONSTRUCTION IMPACT.
- 5. PLANT SIZE TAKES PRECEDENCE OVER CONTAINER SIZE.
- 6. PLANT QUANTITIES AND SQUARE FOOTAGE TABULATIONS ARE FOR THE CONTRACTORS CONVENIENCE ONLY. THE CONTRACTOR IS TO VERIFY ALL PLANT QUANTITIES AND SQUARE FOOTAGES.
- 7. ALL TREES LOCATED IN LAWN AREAS ARE TO HAVE A 2' RADIUS MULCHED CIRCLE AROUND BASE OF TREE.
- 8. ALL PLANT MATERIAL TO BE FLORIDA GRADE #1 OR BETTER.
- ALL PLANTING AREAS AND MULCHED RADII AROUND TREES ARE TO BE A MIN.
   OF ORGANIC MULCH.
- 10. ALL SHADE TREES TO BE 15 FT MIN. FROM ALL OVER HEAD POWER LINES.
- 11. ALL SHADE TREES TO BE 5 FT MIN. AND UNDERSTORY TREES ARE TO BE A 2 1/2' FT MIN. FROM ALL SIDEWALKS, CURBS AND HARDSURFACES.
- 12. CONTRACTOR RESPONSIBLE TO PROVIDE ON SITE, TOTAL CALIPER INCHES SHOWN ON PLANTING SCHEDULE.
- 13. FINAL ACCEPTANCE OF LANDSCAPE IS NOT TO BE ASSUMED UNTIL: 13.1. CITY FINAL LANDSCAPE INSPECTION IS COMPLETE AND APPROVED.
- 13.2. A FORMAL LETTER FROM GENERAL CONTRACTOR TO ENGINEER STATING FINAL APPROVAL IS DELIVERED TO ENGINEER.
- 14. CONTRACTOR RESPONSIBLE FOR LANDSCAPE MAINTENANCE UNTIL FINAL APPROVAL LETTER RELEASES LANDSCAPE TO OWNER.
- 15. ALL DISTURBED AREAS ON THE SITE AND THE RIGHT-OF-WAY SHALL BE SODDED WITH TURF GRASS (ST. AUGUSTINE OR EQUIVALENT).
- 16. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ALL REQUIRED PERMITS AND ASSOCIATED FEES TO COMPLETE THE WORK.
- 17. CONTRACTOR SHALL LOCATE AND VISIBLY MARK ALL BURIED UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY CONFLICTS.
- 18. SUBSTITUTIONS WILL REQUIRE CITY OF GREEN COVE SPRINGS APPROVAL AND AMENDED PLANS.

# CODE REQUIREMENT CALCULATIONS (FROM ARTICLE VI)

TOTAL SITE AREA (SF)	19,074.30
ZONING AREA	C2
PCT LANDSCAPED AREA (MIN 15%)	2,861.15

	PERIMETER LANDSCAPING					
	FRONT	SIDE	TOTAL		CALIPER	
PERIMETER LENGTH (FT)	150	125.6	275.6		(5)2.5"	
NUMBER OF TREES @ 50'	3	2	5		12.5"	
TOTAL MIN CALIPER REQUIRED					12.50	
TOTAL CALIPER PROVIDED (SEE LANDSCAPE PLAN)					24.50	

INTERIOR LANDSCAPING					
SITE AREA (SF)	SQ. FEET/				
10,500.00	1500	SQ FT/ TREE (FIRST 10,500 SF)=	7		
8,574.30	4000	REMAINING SF	3		
REQUIRED TREES					
MIN CALIPER PER TREE (IN)					
TOTAL MIN CALIPER REQUIRED					
TOTAL	CALIPER PROV	IDED (SEE LANDSCAPE PLAN)	35.50		

OVERALL LANDSCAPE POINTS					
SIZE	SIZE RETAINED REMOVED INSTALLED TOTAL POINTS POINTS				
UNDERSTORY	0	0	5.00	5.00	
CANOPY	28.00	0	2.50	30.50	
	35.50				

### IRRIGATION

- 1. HOSE BIBS ARE TO BE PROVIDED EVERY 75' WITHIN ALL LANDSCAPED AREAS WITHIN THE PROJECT AREA.
- 2. UPON COMPLETION, CONTRACTOR SHALL SUBMIT AN AS-BUILT PLAN OF THE INSTALLED IRRIGATION SYSTEM, LOCATION OF ALL COMPONENTS AND SLEEVES TO THE OWNER (AND MUNICIPAL AUTHORITY IF REQUIRED).
- 3. ALL PIPE AND WIRE UNDER PAVING SHALL BE PLACED IN SCHEDULE 40 PVC SLEEVES FOR THE FULL PAVEMENT COVERAGE LENGTH AND SHALL BE AT LEAST 24" BELOW FINISHED GRADE.
- 4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL APPLICABLE PERMITS AND FFFS

# WATERING SCHEDULE

ALL REQUIRED LANDSCAPING SHOWN ON THESE PLANS WILL BE WATERED MANUALLY USING HOSE BIBS DISPERSED THROUGHOUT THE DEVELOPMENT SO THAT EVERY REQUIRED LANDSCAPE AREA IS WITHIN 75' OF A HOSE BIB. TREES SHALL BE WATERED AS NEEDED TO PREVENT DECLINE, AND AT MINIMUM, THREE TIMES WEEKLY DURING NO—RAIN PERIODS FOR THE FIRST 60 DAYS. WATER THEREAFTER ACCORDING TO THE FOLLOWING 180—DAY SCHEDULE:

LARGE TREES/PALMS: 30GAL/APPLICATION SMALL TREES: 20GAL/APPLICATION

SHRUBS AND SOD: AS NEEDED TO PREVENT WILTING

1ST 8 WEEKS: 3 WATERINGS PER WEEK (24 TOTAL)
2ND 8 WEEKS: 2 WATERINGS PER WEEK (16 TOTAL)
FINAL 10 WEEKS: 1 WATERING PER WEEK (10 TOTAL)

ALL WATERING MUST COMPLY WITH ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT LAWN AND IRRIGATION RULES AND REGULATIONS.

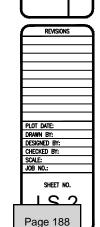
Item # 6.

Engineering, LL

TIA NORTH DRAWGE ARBUE, GR

FLORIDA REGISTRATION NUMBER: 79289

SITE IMPROVEMENTS
FOR
VINEYARD TRANSITIONAL CENTER



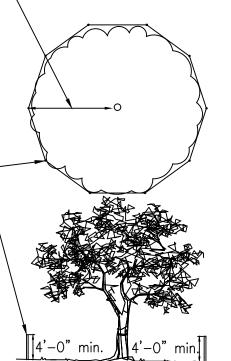
TEMPORARY TREE PROTECTION BARRIER SHALL BE LOCATED AS INDICATED ON PLAN BUT SHALL ALWAYS BE AT 1'-0" OF RADIUS FOR EVERY 1" OF D.B.H. IF NO CONSTRUCTION ACTIVITIES ARE TO TAKE PLACE WITHIN THE DRIP LINE. IN NO CASE SHALL THE PROTECTED AREA BE LESS THEN ONE-HALF THE AVERAGE RADIUS OF THE DRIP LINE OR LESS THAN 10 FEET.

> THE BARRIER SHALL BE CONSTRUCTED OF: 4'-0" SAFETY DRAINAGE COPOLYMER BARRIER FENCING RETAINED TAUGHT BY WIRE TIES TO POSTS. POSTS SHALL BE #3 REBAR 6'-O" LONG DRIVEN 2'-0" INTO GROUND NO MORE THEN 6'-0" APART. REBAR POST SHALL HAVE A SAFETY CAP ON EACH POST'S EXPOSED END.

-NO MATERIALS OR EQUIPMENT SHALL BE STORED, OPERATED, DUMPED, OR BURNED WITHIN THE PROTECTED AREA.

-NO ATTACHMENT (WIRES, SIGNS, ETC.), SHALL BE ATTACHED TO A PROTECTED TREE.

-PRIOR TO ANY LAND CLEARING OPERATIONS, TREE LIMBS WHICH INTERFERE WITH CONSTRUCTION SHALL BE REMOVED IN ACCORDANCE WITH NAT. ARBORIST ASSOC. PRUNING STANDARDS.



TREE PROTECTION BARRIER DETAIL N.T.S.

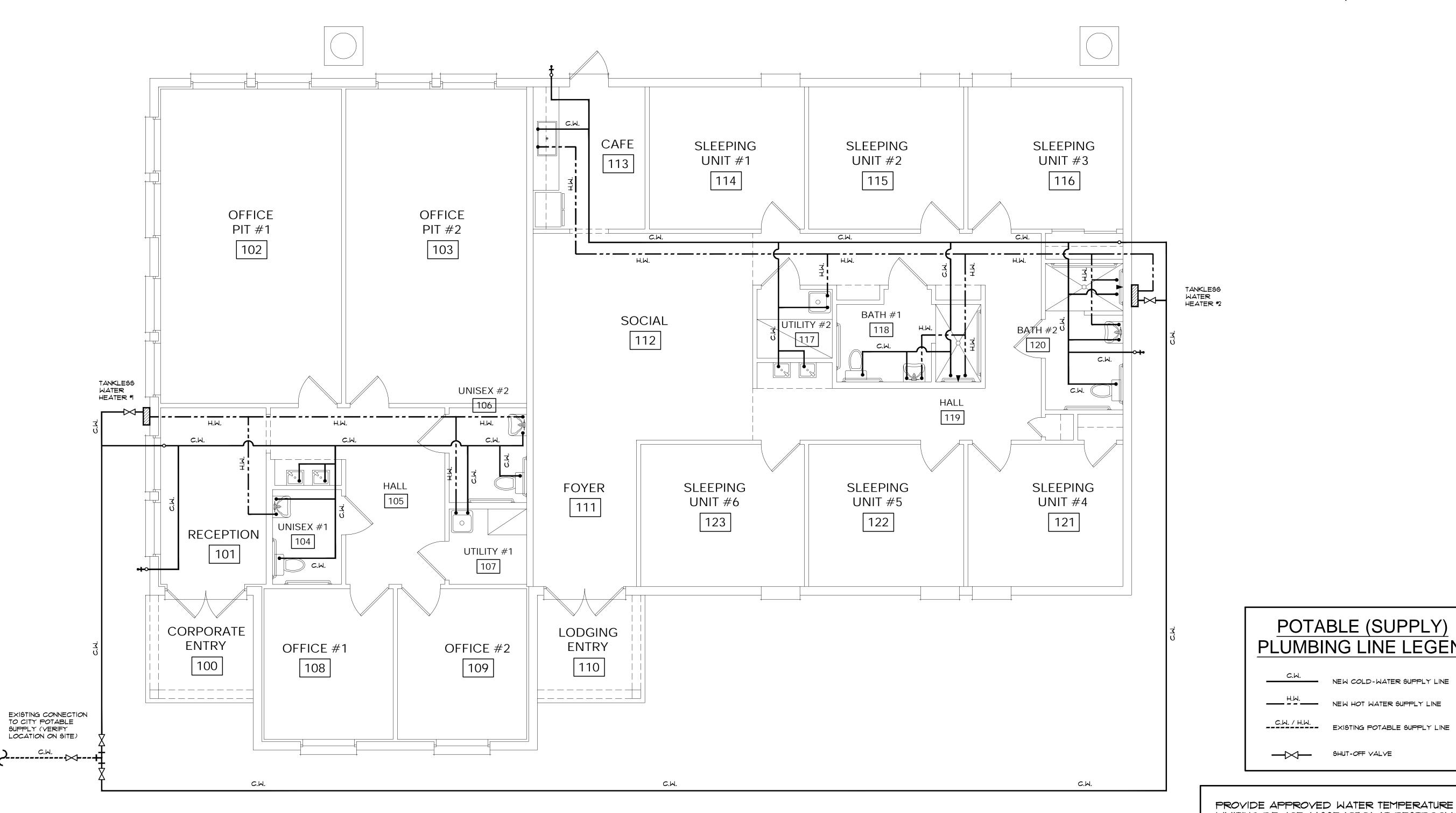
Item # 6.

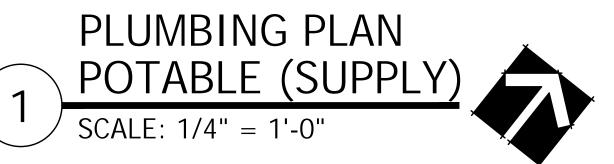
Engineering,

SITE IMPROVEMENTS FOR VINEYARD TRANSITIONAL CENTER

REVISIONS SHEET NO. 1 5 3

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POTABLE (SUPPLY)

PLUMBING LINE LEGEND

C.W. / H.W. EXISTING POTABLE SUPPLY LINE

SHUT-OFF VALVE

PLUMBING CONTRACTOR:

LICENSE #:

TELEPHONE:

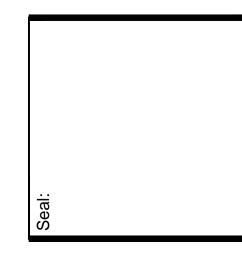
NEW COLD-WATER SUPPLY LINE

NEW HOT WATER SUPPLY LINE

ALTHOUGH EVERY EFFORT HAS BEEN TAKEN TO PREPARE THESE DRAWINGS TO COMPLY WITH LOCAL BUILDING CODES, CONTINUOUS CODE CHANGES MAY REQUIRE ADDITIONAL DRAWINGS, ENGINEERING SERVICES, AND OR CHANGES TO THESE DRAWINGS TO MEET CODE COMPLIANCE. POSSESSION OF THESE PLANS ACKNOWLEDGES THAT THE PURCHASER HAS BEEN INFORMED OF THIS INFORMATION AND ASSUMES THE RESPONSIBILITY TO PROVIDE ALL ADDITIONAL REQUIREMENTS OF LOCAL BUILDING OFFICIALS TO MEET COMPLIANCE.



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Checked By:	G

Sheet Title:

# **PLUMBING** PLAN **POTABLE** (SUPPLY)

Last Plot Date: 9/1/2023

CAD File:

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LIMITING DEVICE (ASSE 1070) AT RESTROOM LAVATORIES FOR THE DELIVERY OF TEMPERED WATER Sheet No:



# **Planning & Zoning**

321 Walnut Street, Green Cove Springs, FL 32043 904-297-7051

# APPLICATION DEFICIENCY NOTICE

DATE: December 11, 2023

APPLICATION REFERENCE: Trent, Angela, SPL-23-008 - 518 PINE Ave

Dear Applicant:

The items you submitted for the above-referenced permit have been reviewed by the City representatives responsible for approving different aspects of your application. Attached to this notice is a list of comments in response to the materials submitted.

Each of the items on the attached list require responses and revised materials be created and resubmitted before any further action can be taken on this permit. A hold is placed on this application and the time it takes you to respond to this list of items is excluded in calculating permit processing timeframes. Once corrected and/or new materials are submitted, your permit processing timeframe will begin again.

A complete response to each of the items on the attached list is required to be submitted **at the same time.** As applicable, a complete response is required to include:

- 1. A written document addressing all of your responses (one paper copy).
- 2. New and/or updated technical reports (one paper copy).
- New and/or corrected plans. Please note that revisions to previously submitted plans
  are required to be identified by clouding, must be noted in a revision list on the plan
  sheet(s), and are required to be incorporated into a full set of revised plans (one paper
  copy).
- 4. A transmittal that itemizes everything being resubmitted (one paper copy).
- 5. A copy of the entire resubmittal must be provided electronically (either on a thumb drive or uploaded via the permit portal).

Your response must be received by our Department within 180 days of the date noted on this letter to avoid this application being withdrawn from consideration. Withdrawn application must be resubmitted as new applications requiring repayment of all applicable fees and processing requirements.

Thank you for your anticipated cooperation in submitting the items requested by staff. We look forward to working with you as this application continues to be processed.

# **APPLICATION DEFICIENCY NOTICE**

DATE: December 11, 2023

**APPLICATION REFERENCE:** Trent, Angela, SPL-23-008

# PLANNING DIVISION COMMENTS - contact Michael Daniels (mdaniels@greencovesprings.com)

- 1. 1. Provide building layout to determine compliance with 117-796(a)(1)
  - 2. Provide a note on the plan that this use shall be limited to the proposed applicant or owner to whom the special exception is granted and shall be subject to the requirements of this subsection. Any changes in ownership or to the use of the property will require a new special exception application.
  - 3. Provide a note of compliance with Sec. 117-796(b) and provide Responsible contact information on the Site Plan.
  - 4. Provide a minimum 10 landscape buffer adjacent to residential property to the north and east. Including small trees an average 1 per 25 on center and a continuous hedge row.
  - 5. Provide large trees in landscape islands in parking areas.
  - 6. Perimeter planting calculation shall be based on all four sides which result in 12 large trees being planted around perimeter of property, where power lines encroach on perimeter plantings, small trees can be substituted at two for one.
  - 7. drainage retention must be fenced.