

City of Okeechobee TECHNICAL REVIEW COMMITTEE 55 Southeast Third Avenue + Okeechobee, FL 34974 September 16, 2021 LIST OF EXHIBITS

ApplicationSite Plan Review Application No. 21-002-TRC



September 1, 2021

City of Okeechobee 55 SE 3rd Avenue Okeechobee, FL 34974

Subject: Loumax Development

Dear TRC:

Please find below the questions received at TRC on July 15, 2021 concerning the above referenced project. Your comments on in regular type and responses are in italics:

1. Joinder/Unity of Title Must be completed.

The Joinder/Unity of Title has been submitted to the City of Okeechobee and is being processed.

2. The applicant Please show the hydrants on the plans.

There is an existing fire hydrant at the southwest corner of the project and it is shown on Sheet 2 of the plans. An additional hydrant will be installed near the existing FDC since the sprinkler system is going to be expanded to cover the additional building area. The location will be coordinated with the Okeechobee County Fire Department and Okeechobee Utility Authority

3. Please show FDC on Plans.

FDC is located on the plans. As previously discussed, the existing FDC will be used as the existing sprinkler system will be expanded.

4. Increase the egress width of south drive to 20' minimum to comply with Fire Department Access to the site.

The access has been increased to 20' minimum to comply with this requirement.

5. Existing gate and south gate to be fitted with Knox locks for fire department access.

Both gates will be fitted with Knox locks as required.

6. The proposed culverts under the proposed access drives were reduced to 36" as discussed. David Allen requested they be A2000 material.

The requested change has been made.

7. Look at replacing existing north access.

To be discussed at the September TRC Meeting

8. Replace damaged sidewalks.

The owner was planning this during construction.

9. 5' fence should extend to the east face of the proposed building.

This change has been reflected in the attached plans.

Should you have any questions or comments, please do not hesitate to call.

Sincerely,

Steven L. Dobbs Engineering

turn D. Robbs

Steven L. Dobbs, P. E. President

CC: Neal Markus File





LOTS 1 THROUGH 6, INCLUSIVE, BLOCK 190, OKEECHOBEE, ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 5, PAGE 5 OF THE PUBLIC RECORDS OF OKEECHOBEE COUNTY FLORIDA.

ALL OF BLOCK 191, OKEECHOBEE, ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 5. PAGE 5 OF THE PUBLIC RECORDS OF OKEECHOBEE COUNTY, FLORIDA

A PORTION OF THE FLORIDA EAST COAST RAILWAY COMPANY RIGHT-OF-WAY. SINCE ABANDONE AND OF NORTH CURVE STREET, SINCE ABANDONED, AS SHOWN ON PLAT OF FIRST ADDITION TO OKEECHOBEE, FLORIDA, AS RECORDED IN PLAT BOOK 5, PAGE 6, OF THE PUBLIC RECORDS OF OKEECHOBEE COUNTY ELORIDA AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS

WITH THE WEST R/W OF SW 7TH AVENUE: THENCE NORTH OF LINE OF SAID SW 7TH AVENUE A DISTANCE OF 76 17 FEFT TO THE POINT OF SOUTH 89°49'42" WEST A DISTANCE OF 199 99 FEFT TO THE INTERSECTION WITH EXTENSION OF THE WEST LINE OF BLOCK 251 OF SAID PLAT OF FIRST ADDITION THENCE NORTH 00°08'48" WEST ALONG SAID NORTHERLY EXTENSION A DISTANCE O R/W LINE OF SW 4TH STREET. A DISTANCE OF 100.00 FEET 1 CORNER OF LOT 1. BLOCK 190. OKEECHOBEE. ACCORDING TO THE PLAT 1 IN PLAT BOOK 5. PAGE 5. OF THE PUBLIC RECORDS OF OKEECHOBEE COUNTY, FLORIDA, SAIL POINT BEING A POINT OF CURVATURE OF A CURVE TO THE LEFT AND HAVING FOR ITS ELEMEN A CENTRAL ANGLE OF 27°36'08 AND A RADIUS OF 1230.00 FEET; THENCE SOUTHEASTERLY ALONG SAID CURVE, AN ARC DISTANCE OF 592.55 FEET TO THE SOUTHEAST CORNER OF BLOCK 191 OF SAID PLAT OF OKEECHOBEE: THENCE SOUTH 00°08'53" EAST ALONG THE WEST R/W LINE OF SAID SW 7TH AVENUE, A DISTANCE OF 23.65 FEET TO THE POINT OF BEGINNING

THAT PORTION OF SOUTHWEST 4TH STREET (F/K/A FIFTH AVENUE). FROM SOUTHWEST FROM SOUTHWEST 7TH AVENUE WESTWARD TO DEAD-END. BEIN BY 103 FEET LONG. AND LYING NORTH OF BLOCK 191. CITY OF OKEECHOBEE. ACCORDING TO TH PLAT THEREOF AS RECORDED IN PLAT BOOK 5. PAGE 5. PUBLIC RECORDS OF OKEECHOBEE COUNTY, FLORIDA.

THE SOUTH 297.0 FEET OF THE FOLLOWING DESCRIBED PARCEL A: THE NORTH LINE OF SAID SOUTH 297.0 FEET BEING PARALLEL TO THE NORTHERLY RIGHT-OF-WAY LINE OF S.W. 4TH STREET AND LYING 20.0 FEET SOUTH OF, AS MEASURED AT RIGHT ANGLES TO, THE SOUTH WALL OF AN EXISTING BUILDING

PARCEL A

COMMENCE AT THE SOUTHWEST CORNER OF THE INTERSECTION OF THE WEST LINE OF OKEECHOBEE AVENUE (S.W. 7TH AVENUE) AND THE SOUTH LINE OF SOUTH PARK STREET (PRIOR TO ROAD VACATION), AS SHOWN ON THE PLAT OF OKEECHOBEE RECORDED IN PLAT BOOK 5, PAGE 5 OF THE PUBLIC RECORDS OF OKEECHOBEE COUNTY, FLORIDA; THENCE DUE WEST ALONG SAID SOUTH BOUNDARY OF SOUTH PARK STREET A DISTANCE OF 218.90 FEET TO THE POINT OF BEGINNING; THENCE SOUTH 07°05'27" EAST A DISTANCE OF 302.95 FEET; THENCE SOUTH 07°12'09 EAST A DISTANCE OF 70.54 FEET TO A POINT LYING ON THE SOUTHERLY RIGHT-OF-WAY LINE OF S.W. 2ND STREET: THENCE NORTH 89°54'07" EAST ALONG SAID SOUTHERLY RIGHT-OF-WAY LINE A DISTANCE OF 172.97 FEET TO THE INTERSECTION OF THE WESTERLY RIGHT-OF-WAY LINE OF OKEECHOBEE AVENUE (S.W. 7TH AVENUE); THENCE SOUTH 00°02'10" EAST ALONG SAID WESTERL RIGHT-OF-WAY LINE OF OKEECHOBEE AVENUE (S.W. 7TH AVENUE) A DISTANCE OF 670.00 FEET TO THE INTERSECTION OF THE NORTHERLY RIGHT-OF-WAY LINE OF S.W. 4TH STREET: THENCE SOUT 89°54'07" WEST ALONG SAID NORTHERLY RIGHT-OF-WAY LINE A DISTANCE OF 241.18 FEET TO TH INTERSECTION OF THE EASTERLY RIGHT-OF-WAY LINE OF THE SCL RAILROAD MAIN TRACK, SAID LINE BEING 10 FEET EAST OF THE CENTERLINE OF SAID MAIN TRACK; THENCE NORTH 00°04'14" EAST 10 FEET EAST OF AND PARALLEL TO THE CENTERLINE OF SAID MAIN TRACK A DISTANCE OF 1041.09 FEET TO A POINT LYING ON THE SOUTHERLY RIGHT-OF-WAY LINE OF SOUTH PARK STREET THENCE DUE EAST ALONG SAID SOUTHERLY RIGHT-OF-WAY LINE A DISTANCE OF 20.26 FEET TO THE POINT OF BEGINNING.

ROJECT SPECIFIC NOTES

) UNLESS SHOWN OTHERWISE, ALL DIMENSIONS ARE CALCULATED(C) AND MEASURED(M). 2) SITE ADDRESS: 312 SW 7TH AVENUE. 3) THE ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF

1988 (NAVD 88). 4) F.I.R.M. ZONE: "X", MAP NO. 12093C0480C, DATED 07/16/15

5) THIS SURVEY IS NOT INTENDED TO DEPICT JURISDICTIONAL AREAS OR OTHER AREAS OF LOCAL CONCERN.

6) SURVEYOR ASSUMES NO RESPONSIBILITY OR LIABILITY FOR THE ACCURACY OF EASEMENT DIMENSIONS SHOWN HEREON, THERE MAY BE OTHER EASEMENTS OR RESTRICTIONS THAT EFFECT THIS PARCEL

7) THE SURVEY DEPICTED HERE IS NOT COVERED BY PROFESSIONAL LIABILITY INSURANCE. 8) ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES. 9) THE DESCRIPTION SHOWN HEREON WAS PREPARED BY THE CLIENT OR THE CLIENT'S REPRESENTATIVE

10) BEARING REFERENCE: THE WEST RIGHT-OF-WAY LINE OF SW 7TH AVENUE IS TAKEN TO BEAR SOUTH 00°08'53" EAST. 11) DATE OF LAST FIELD SURVEY: 10/28/20.

Richard Barnes, III, PSM 7074

TRADEWINDS SURVEYING SERVICES, LLC.

200 S.W. 3rd Avenue Okeechobee, FL. 34974 Tel: (863) 763-2887 Fax: (863) 763-4342 Email: kab.twps@yahoo.com





Steven L. Dobbs Engineering, LLC **Consulting Engineers**

1062 Jakes Way - Okeechobee, FL 34974 Phone: (863) 824-7644 FLORIDA CERTIFICATE OF AUTHORIZATION No. 00029206





Construction Plans FOR Loumax Development Inc. Proposed Site Development

City of Okeechobee, Florida



LOCATION MAP SCALE: N.T.S.

	INDEX OF SHEETS
01 OF 12	TITLE SHEET
02 OF 12	EXISTING CONDITIONS, DEMOLITION, AND SEDIMENT CONTR
03 OF 12	COMBINED EXISTING AND PROPOSED SITE PLAN
04 OF 12	HORIZONTAL CONTROL, STRIPING & SIGNAGE PLAN
05 OF 12	PAVING, GRADING & DRAINAGE PLAN
06 OF 12	UTILITIES
07 OF 12	SITE DETAILS
08 OF 12	UTILITY DETAILS - 1
09 OF 12	UTILITY DETAILS - 2
10 OF 12	LANDSCAPING PLAN
11 OF 12	GENERAL NOTES AND SPECIFICATIONS
12 OF 12	UTILITY NOTES



VICINITY MAP SCALE: N.T.S.





REVISIONS









FIIUIIE. (805) 824-7044





THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HER	EIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT V	VITHOUT WRITTEN AUTHORIZATION AND ADOPTION BY STEVEN L. DOBBS, P. E., SHALL BE WITHOUT LIABILITY TO STEVEN L. DOBBS ENGINEERING, LLC.
Steven L. Dobbs		LOUMAX DEVELOPMENT, INC
Engineering, LLC		PROPOSED SITE IMPROVEMEN LOCATED IN THE CITY OF OKEECHOBEE
Okeechobee, Fl 34974 Phone: (863) 824-7644		UTILITY DETAILS - 2
FLORIDA CERTIFICATE OF AUTHORIZATION No. 00029206	No. DATE BY REVISIONS	

PROPOSED SITE IMPROVEMENTS LOCATED IN THE CITY OF OKEECHOBEE	State 811 One Call of Florida, Inc.
UTILITY DETAILS - 2	JOB No.: 2019-043 SHEET

LEGEND

 \odot

7	PROPOSED PALM TREE (38 PROVIDED)
	PROPOSED TREE (28 PROVIDED)
	PROPOSED SHRUB (279 PROVIDED)
7	EXISTING PALM TREE TO REMAIN (20 TOTAL)
	EXISTING TREE TO REMAIN (38 TOTAL)
	EXISTING SHRUBS (30 TOTAL)

NOTE:

1. There are existing trees onsite that will meet some of the landscaping requirement. Since there is not a tree survey, this will be field adjusted. 2. This plan for site approval and only indicates the location and type of proposed landscaping. The selected plant to be installed will have to meet the City of Okeechobee's Division 4 Landscape Code for type and size of plants installed. 3. The north parcel has already been through site plan and was previously approved and certified prior to Certificate of Occupancy for the latest City of Okeechobee TRC Approval.

4. Consideration will be made to protect the overhead utility lines from mature tree growth.

5. Plantings will be elected from South Florida Water Management District's Xeriscape Plan Guide, with at least 75% of the total required plans being native very drought tolerant species as listed in that Plant Guide.

6. Trees shall be at least 10' high and 2" diameter measured 4' above ground level at the time of planting.

7. The remainder of the parking landscape areas and buffer landscape areas which area not occupied by trees and shrubs shall be landscaped with grass, groundcover, or other landscape material such as mulch.

landscaping is required.

THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HERE	IN, AS AN I	NSTRUMENT C	OF SERVIC	E, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED.	REUSE
Steven L. Dobbs Engineering LLC					
1062 JAKES WAY Okeechobee, Fl 34974					
Phone: (863) 824-7644					
FLORIDA CERTIFICATE OF AUTHORIZATION No. 00029206	No.	DATE	BY	REVISIONS	IL

	Trees	Shrubs
0 sf of lot	70	210
ty Lines (PL) of required	38	114
her PLs		
king space – f of	11	33
g spaces		
ery 10 5 12	0	0
	0	0
s per unit)	2	0
s (3 trees	6	0
(2 trees per	0	0
ome (1 tree	0	0
s per unit)	0	0
	70	210

Note: Since the landscaping requirement is met in the parking, buffers and islands no additional

LANDSCAPING PLAN

JOB No.: **2019-043** SHEET **10** OF **12**

GENERAL NOTES

1. Contractor is responsible for checking actual site conditions before starting construction.

2. Any discrepancies on the drawings shall be brought to the attention of the engineer before commencing work.

3. Contractor shall obtain all required building permits before commencing work.

4. Contractor shall be responsible for location of all existing utilities. The contractor shall contact all concerned utilities at least 48 hours in advance for construction operations.

5. No field changes or deviations from design to be made without prior approval of the engineer.

6. All construction shall be completed in accordance with the applicable ordinances of City of Okeechobee, Florida.

7. Contractor shall supply density tests to engineer on all sub-grade and base. Tests shall be prepared per AASHTO T-180 method.

8. Slope grades from elevations shown to existing grade at property line.

9. Engineer shall be notified at least 48 hours in advance for any inspection.

10. All traffic control devices shall be in accordance with M.U.T.C.D. Standards.

11. Erosion and sedimentation control techniques shall be incorporated during construction as follows: (1) silt screens shall be maintained at the project perimeter.

(2) No off-site discharges shall occur during construction. In the event discharge is required, hay bales and/or turbidity curtains shall be incorporated at the discharge point as necessary to control turbidity.

EROSION AND SEDIMENTATION CONTROL NOTES

Construction activities can result in the generation of significant amounts of pollutants which may reach surface or ground waters. One of the primary pollutants of surface waters is sediment due to erosion. Excessive quantities of sediment which reach water bodies of floodplains have been shown to adversely affect their physical, biological and chemical properties. Transported sediment can obstruct stream channels, reduce hydraulic capacity of water bodies of floodplains, reduce the design capacity of culverts and other works, and eliminate ethic invertebrates and fish spawning substrates by siltation. Excessive suspended sediments reduce light penetration and therefore, reduce primary productivity.

MINIMUM STANDARDS:

1. Sediment basin and traps, perimeter dikes, sediment barriers and other measures intended to trap sediment shall be constructed as a first step in any land-distributing activity and shall be made functional before unslope land disturbance takes place.

2. All sediment control measures are to be adjusted to meet field conditions at the time of construction and be constructed prior to any grading or disturbance of existing surface material on balance of site. Perimeter sediment barriers shall be constructed to prevent sediment or trash from flowing or floating on to adjacent properties.

3. Permanent or temporary soil stabilization shall be applied to denuded areas within seven days after final grade is reached on any portion of the site. Temporary soil stabilization shall be applied within seven days to denuded areas that may not be at final grade but will remain undisturbed for longer than 30 days. Permanent stabilization shall be applied to areas that are to be left undisturbed for more than one year.

4. During construction of the project, soil stockpiles shall be stabilized or protected with sediment trapping measures. The applicant is responsible for the temporary protection and permanent stabilization of all soil stockpiles on site as well as soil intentionally transported from the project site.

5. A permanent vegetative cover shall be established on denuded areas not otherwise permanently stabilized. Permanent vegetation shall not be considered established until a ground cover is achieved that, in the opinion of the Reviewer, is uniform, mature enough to survive and will inhibit erosion.

6. Stabilization measures shall be applied to earthen structures such as dams, dikes and diversions immediately after installation.

ENGINEER OF RECORD INSPECTION REQUIREMENTS								
	F.I	3.V.	DEN	SITY	L.B.	.R.	THIC	KNESS
	MAX. S	PACING	MAX. SPACING		MAX. SPACING		MAX. SPACING	
	LINEAR	SQUARE	LINEAR	SQUARE	LINEAR	SQUARE	LINEAR	SQUARE
	FEET	FEET	FEET	FEET	FEET	FEET	FEET	FEET
COMPACTED OR STABILIZED GRADE	200	5,000	200	5,000	200	5,000	300	10,000
ROCK BASE			300	10,000	300	10,000	300	10,000
SHELL ROCK			300	10,000			300	10,000
ASPHALT							PER INSP.	PER INSP.
ALL TESTING SHALL BE TAKEN IN A STAGGERED SAMPLING PATTERN FROM A POINT 12" INSIDE THE LEFT EDGE OF THE ITEM TESTED, TO THE CENTER, TO A POINT INSIDE OF THE RIGHT EDGE								

7. Surface runoff from disturbed areas that is comprised of flow from drainage areas greater than or equal to three acres shall be controlled by a sediment basin. The sediment basin shall be designed and constructed to accommodate the anticipated sediment loading from the land-disturbing activity. The outfall device or system design shall take into account the total drainage area flowing through the disturbed area to be served by the basin.

8. After any significant rainfall, sediment control structures will be inspected for integrity. Any damaged devices shall be corrected immediately.

9. Concentrated runoff shall not flow down cut or fill slopes unless contained within an adequate temporary or permanent channel, flume or slope drain structure.

be provided.

11. Sediment will be prevented from entering any storm drain system, ditch or channel. All storm sewer inlets that are made operable during construction shall be protected so that sediment-laden water cannot enter the conveyance system without first being filtered or otherwise treated to remove sediment.

12. Before temporary or newly constructed stormwater conveyance channels are made operational, adequate outlet protection and any required temporary or permanent channel lining shall be installed in both the conveyance channel and receiving channel.

13. When work in a live watercourse is performed, precautions shall be taken to minimize encroachment, control sediment transport and stabilize the work area to the greatest extent possible during construction. Nonerodible material shall be used for the construction of causeways and cofferdams. Earthen fill may be used for these structures if armored by nonerodible cover materials.

14. When a live watercourse must be crossed by construction vehicles, a temporary stream crossing constructed of nonerodible material shall be provided.

15. The bed and banks of a watercourse shall be stabilized immediately after work in the watercourse is completed.

16. Periodic inspection and maintenance of all sediment control structures must be provided to ensure intended purpose is accomplished. The Developer, owner and/or contractor shall be continually responsible for all sediment leaving the property. Sediment control measures shall be in working condition at the end of each working day.

18. Where construction vehicle access routes intersect paved public roads, provisions shall be made to minimize the transport of sediment by tracking onto the paved surface, where sediment is transported onto a public road surface with curbs and gutters, the road shall be cleaned thoroughly at the end of each day. Sediment shall be removed from the roads by shoveling or sweeping and transported to a sediment control disposal area. Street washing shall be allowed only after sediment is removed in this manner. This provision shall apply to individual subdivision lots as well as to larger land-distributing activities.

19. All temporary erosion and sediment control measures shall be removed within 30 days after final site stabilization or after the temporary measures are no longer needed, in the opinion of the Reviewer. Disturbed soil areas resulting from the disposition of temporary measures shall be permanently stabilized to prevent further erosion and sedimentation.

20. Properties and waterways downstream from construction site shall be protected from sediment disposition and erosion.

21. Phased projects should be cleared in conjunction with construction of each phase.

22. Erosion control design and construction shall follow the requirements in Index Nos. 101, 102 and 103 of FDOT Roadway and Traffic Design Standards.

23. The Reviewer may approve modifications or alter plans to these erosion control criteria due to site specific conditions.

ENGINE CONTR RECOR INSPEC 1. PREC 2. DRAI 3. PAVE 4. PAVE 5. FINAL	-	
		ENGINE CONTR RECOR INSPEC 1. PREC 2. DRAI 3. PAVE 4. PAVE 5. FINA

EROSION AND SEDIMENTATION CONTROL NOTES - (continued)

10. Whenever water seeps from a slope face, adequate drainage or other protection shall

17. Underground utility lines shall be installed in accordance with the following standards in addition to other applicable criteria:

A. No more than 500 linear feet of trench may be opened at one time. B. Excavated material shall be placed on the uphill side of trenches.

C. Effluent from dewatering operations shall be filtered or passed through an approved sediment trapping device, or both, and discharged in a manner that does not adversely affect flowing streams or off-site property.

D. Restabilization shall be accomplished in accordance with these regulations.

Earthwork and Drainage Specifications

1. <u>Clearing and Grubbing</u>: Clearing and grubbing shall be performed within the limits of the project work in accordance with Section 110, Florida Department of Transportation (FDOT) Specifications. This item shall include, but is not limited to, the complete removal and legal disposal of all trees, brush, stumps, roots, grass, weeds, rubbish and other undesirable material to a depth of 18 inches below natural ground or proposed finished grade, whichever is lower. The areas to be cleared generally consist of the entire site with the exception of areas specifically noted on the landscape plans as preserve areas or as areas to remain un-cleared. Care shall be taken to insure that no preserve areas or wetland areas are impacted by the clearing operation. Prior to initiating the clearing operation, all adjacent wetland and preserve areas shall be marked and flagged in accordance with the City of Okeechobee and South Florida Water Management District (SFWMD) requirements All such areas immediately adjacent to the clearing operation shall also be protected by the installation of temporary silt barriers in accordance with the requirements of The City of Okeechobee and the SFWMD. Further erosion control shall be accomplished by seeding and mulching all disturbed areas as soon as they are at final grade, per the specifications for seeding and mulching found elsewhere on this sheet.

All material shall be removed from the site and shall be legally disposed of in accordance with all local, state and federal requirements.

- 2. Earthwork and Grading: All earthwork and grading shall be performed as required to achieve the final grades, typical sections and elevations shown on the plans. In all other respects, materials and construction methods for earthwork, embankment, excavation and grading shall conform to the requirements of FDOT Specifications, Section 120. Any plastic or otherwise undesirable material within 36 inches of finished road grade shall be removed and replaced with suitable material. The contractor shall also refer to the Soils Report, if available. The specifications and recommendations included in that report shall be considered as a part of these plans and specifications. Should there be any conflict between that document and any requirements of these drawings or specifications, the most restrictive requirement shall govern.
- **3.** Paving Improvements: All areas proposed for paving shall be constructed in accordance with the design grades and typical sections shown on the drawings, and in conformance to the requirements of the City of Okeechobee and Florida Department of Transportation.
 - A. Asphalt: Prime Coat and tack coat for base course and between lifts of asphalt shall conform to the requirements of Sections 300-1 through 300-7 of the FDOT Specifications. Prime Coat shall be applied at a rate of 0.25 gallons per square yard and tack coat at a rate of 0.10 gallons per square yard, unless otherwise approved by the Engineer.

Asphalt surface course thickness and material shall be as shown on the typical sections and shall in all ways conform to the requirements of FDOT.

- **Base:** Limerock base material shall be compacted to 98% of maximum density per AASHTO T-180. All limerock shall meet the minimum requirements of FDOT Section 911. As an alternate, cemented coquina conforming to FDOT Section 915 may be substituted and shall be subject to the compaction specifications detailed above and included in the Soils Engineer's report.
- C. Sub-grade: Sub-grade shall be compacted to 98% of maximum density per AASHTO T-180, and stabilized to a minimum FBV of 50psi. Sub-grade shall be thoroughly rolled with a pneumatic tired roller prior to scheduling any sub-grade inspection.
- **D.** Valley Gutter/ F-Curb/D-Curb/Flush Curb: Shall be constructed per the typical section by extruding machine or forms as shown on the plans. Minimum concrete compressive strength shall be 3,000psi after 28 days. Sub-grade shall be moistened at the time concrete is placed to insure a uniformly damp surface. Ready-mix concrete shall have a slump of between 2 and 4 inches. No water shall be added to increase workability. Test cylinders shall be made for the strength testing of each batch of concrete for at least 7 and 28 day testing.
- **E.** Sod: A minimum of a two-foot wide strip of sod, or as otherwise shown on the plans, shall be placed along the back of curb of all constructed pavement to aid in prevention of erosion and soil stability. Sod shall be placed in conformance to FDOT Section 570, 575 and 981. Generally, the sodding requirements shall be as specified on the landscape plans, prepared by Others.
- **F.** Seed, Fertilize and Mulch: All disturbed areas shall be stabilized with seed, fertilizer and mulch upon completion and acceptance by Engineer of final grading. Seed, fertilizer and mulch shall be in conformance to FDOT Sections 570, 575 and 981. The Contractor is responsible for establishing a stand of grass sufficient to prevent erosion prior to removal of the temporary silt fences. This applies only to those areas not covered by the sodding specified in the landscape plans, prepared by Others
- **G.** Testing: The Contractor shall secure the services of an approved independent testing laboratory to conduct all required testing on sub-grade, base, asphalt and concrete. Locations required for these tests shall be as required by the City of Okeechobee, and/or in the case of the turn-lane improvements as required by the City of Okeechobee. At a minimum, testing shall be as recommended by FDOT. Should any tests fail, contractor shall at his own expense, repair the deficiencies and retest the work until compliance with the specifications is demonstrated.
- H. Traffic Control: The installation of Traffic Control Devices shall be in conformance to the requirements of the Manual of Uniform Traffic Control Devices, The City of Okeechobee. Maintenance of traffic During Construction shall be as required by FDOT.

EER OF RECORD INSPECTION REQUIREMENTS RACTOR TO CALL CONTRACT ENGINEER OF RD 48 HOURS ADVANCE FOR FOLLOWING CTIONS: CONSTRUCTION MEETING INAGE PIPE (UNCOVERED) EMENT SUBGRADE EMENT BASE

THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HE	REIN, AS AN	INSTRUMENT C	OF SERVIC	E, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED.	REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADC
Steven L. Dobbs					
Engineering, LLC					
1062 JAKES WAY					
Phone: (863) 824-7644					
FLORIDA CERTIFICATE OF AUTHORIZATION No. 00029206	No.	DATE	BY	REVISIONS	

Continued:

4. Drainage Improvements: All labor, materials and construction methods shall be in conformance to the minimum engineering and construction standards of the City of Okeechobee and FDOT Specifications. Trench excavation and back-filling operations shall meet or exceed the requirements of FDOT Specifications, Section 125. The Contractor shall provide the necessary back-fill compaction testing required to demonstrate compliance with this section. The pipe trench shall be dry when pipe is laid and the pipe shall be bedded per the details and per FDOT specifications.

The Contractor shall comply with Chapter 90-96, Laws of Florida, which requires the Contractor performing trench excavations over five feet in depth comply with all applicable trench safety standards and shoring requirements as set forth in the Occupational Safety and Health Administration's (OSHA) excavation and safety standards, 29 C.F.R. 19926.650, Sub-part P and incorporated as the State of Florida standard, as revised and/or updated. The cost of compliance with this requirement shall be included as a separate line item on the Contractor's bid. Otherwise, Contractor certifies that the cost of compliance is included in the unit cost of all items of work to which this requirement applies.

- A. **Reinforced Concrete Pipe (RCP):** RCP shall conform to the requirements of ASTM Specifications C-76, Class III, Wall Thickness "B", latest revision. All joints shall be soil-tight. Pipe gasket shall conform to FDOT Specifications, Section 942.
- **B.** Corrugated Metal Pipe (CMP): All CMP shall be Steel, round, helical-wound corrugated pipe conforming to AASHTO-M 36 and FDOT Section 943. Pipe ends at joints shall be reformed to a minimum of 2 annular corrugations for the complete band width. All joints shall be soil-tight. All connecting bands shall be corrugated annular coupling bands. A Neoprene gasket of at least 7 inches wide by 3/8 inch thick shall be used for all pipes of 36-inch diameter and smaller. Larger pipe sizes require gaskets of at least 10-1/2 inches in width. All CMP shall be installed at maximum lengths to reduce the number of joints.
- C. Corrugated Aluminum Pipe (CAP): All CAP shall be aluminum alloy, round, helical-wound corrugated pipe conforming to AASHTO-M 196 and FDOT Section 945. Pipe ends at joints shall be reformed to a minimum of 2 annular corrugations for the complete band width. All joints shall be soil-tight. All connecting bands shall be corrugated annular coupling bands. A Neoprene gasket of at least 7 inches wide by 3/8 inch thick shall be used for all pipes of 36-inch diameter and smaller. Larger pipe sizes require gaskets of at least 10-1/2 inches in width. All CAP shall be installed at maximum lengths to reduce the number of joints.
- **D.** Corrugated High Density Polyethylene Pipe (HDPE): All HDPE Pipe shall be resin conforming to ASTM D3350 minimum cell classification 435400C, round, only annular corrugations and conforming to FDOT Section 948-2.3. All joints shall be soil-tight. All connecting bands shall be corrugated annular coupling bands. A Neoprene gasket of at least 7 inches wide by 3/8 inch thick shall be used for all pipes of 36-inch diameter and smaller. Larger pipe sizes require gaskets of at least 10-1/2 inches in width. All HDPE shall be installed at maximum lengths to reduce the number of joints.
- E. Contech A-2000 PVC drainage pipe (A-2000): All A-2000 corrugated pipe with a smooth interior shall conform to the requirements of ASTM Designation F949 & F794 Dual Wall Corrugated Profile (DWCP) Pipe. Pipe and fittings shall be homogeneous throughout and free from visible cracks, holes, foreign inclusions or other injurious defects. Pipe shall be manufactured to 46 psi stiffness when tested in accordance with ASTM Test Method D2412. There shall be no evidence of splitting, cracking or breaking when the pipe is tested per ASTM Test Method D2412 and F949 section 7.5. The pipe shall be made of PVC compound having a minimum cell classification of 12454B as defined in ASTM Specification D1784.
- F. PVC Drainage Pipe: PVC Drainage Pipe shall be C-900 with push-on joints (no glued joints) and shall be as specified for sanitary sewer construction, except that it shall be white in color. Any portion of the PVC storm pipe that may be exposed to sunlight, such as its outlet to the detention pond, shall be painted to protect it from UV light.
- G. Inlets, Manholes, and Junction Boxes: All drainage inlets, manholes, and junction boxes shall be precast concrete conforming to ASTM C-478 and 64T. All concrete shall have not less than 4000-psi compressive strength at 28 days. Structure sections shall be joined with a mastic sealing compound. The remaining space shall be filled with the cement mortar and finished so as to produce a smooth continuous surface inside and outside the wall sections. All openings in precast structures shall be cast at the time of manufacture. Holes for piping shall be six inches larger than the outside diameter of the proposed pipe. All spaces between the manhole and the pipe shall be completely filled with mortar and finished smooth. Mortar used for concrete structures shall conform to M C-270. Mortar material shall be mixed one part Type 2 Portland cement to two parts aggregate by volume. Portland cement shall conform to ASTM C-144 and aggregate shall conform to ASTM C-144. The CONTRACTOR shall furnish the ENGINEER with shop drawings of all precast structures for his approval prior to fabrication. Shop drawings shall show all dimension, reinforcing steel and specifications. Storm Manholes shall be constructed with a traffic bearing cast-iron slotted grate.
- **H.** Trench Backfill shall be as shown in the Drainage Details. In addition, testing under paved areas shall be as follows: One test location midway between structures and one test location adjacent to each structure. Engineer may request additional locations. Testing in each location shall begin in the first foot above the culvert with tests every two feet to within two feet of the sub-grade. Density shall be to 100 percent of maximum as determined by AASHTO T-99.
- **Control Structures:** Shall be constructed per the above specifications for Inlets, Manholes, and Junction Boxes except that the structures shall include the bleeders and weirs as shown on the detail.
- **Rip-Rap Energy Dissipaters:** Shall be constructed per the details and as shown on the drawings at the control structures and the downstream bubble-up structures. The rubble shall be of material and placed in accordance to FDOT Section 530-2.3 (material) and FDOT Section 530-3.3 (Construction Methods). Should broken concrete be used as the rubble, it shall be free from reinforcing bars or wire mesh. The contractor shall use care in the placement of the stone so that it is not dropped on thew fabric in such a fashion that tears the fabric. The fabric shall be as specified in FDOT Section 985 and shall be of the woven design and as specified for use with riprap per Table 1 of this section. The bedding stone shall be of the type typically used for drainfield rock and shall meet the requirements of FDOT for drainfield rock.

LOUMAX DEVELOPMENT, INC. PROPOSED SITE IMPROVEMENTS LOCATED IN THE CITY OF OKEECHOBEE	You dig in Florida, it's the Lav Sunshine State One Call of Epride Inc
GENERAL NOTES & SPECIFICATIONS	JOB No.: 2019-043

SHEET **11** OF **12**

GENERAL NOTES & SPECIFICATIONS

GENERAL NOTES:

FOR THE PURPOSE OF THE GENERAL NOTES BELOW, THE TERM DEPARTMENT SHALL MEAN OKEECHOBEE UTILITY AUTHORITY

1. THE CONTRACTOR SHALL CONTACT ALL CONCERNED UTILITIES AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION OPERATIONS.

2. THE LOCATION AND SIZE OF ALL EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHOD AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. ANY AND ALL CONFLICTS OF EXISTING UTILITIES WITH PROPOSED IMPROVEMENTS SHALL BE RESOLVED BY THE ENGINEER AND DEPARTMENT PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

3. LOCATION OF PROPOSED FACILITIES WILL BE STAKED BY CONTRACTOR. CONTRACTOR MUST GIVE 48 HOURS NOTICE TO THE DEPARTMENT IN ADVANCE OF LAYOUT.

4. THE LOCATION AND SIZE OF ALL EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHOD AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. ANY AND ALL CONFLICTS OF EXISTING UTILITIES WITH PROPOSED IMPROVEMENTS SHALL BE RESOLVED BY THE ENGINEER AND DEPARTMENT PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

5. LOCATION OF PROPOSED FACILITIES WILL BE STAKED BY CONTRACTOR. CONTRACTOR MUST GIVE 48 HOURS NOTICE TO THE DEPARTMENT IN ADVANCE OF LAYOUT.

6. PROJECT SUPERINTENDENT: THE CONTRACTOR SHALL PROVIDE A QUALIFIED SUPERINTENDENT TO REMAIN ON THE JOB SITE AT ALL TIMES WHEN WORK IS BEING PERFORMED. THE SUPERINTENDENT SHALL BE PRESENT AT THE PRE-CONSTRUCTION MEETINGS. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT BY LETTER PRIOR TO THE PRE-CONSTRUCTION MEETING APPOINTING THE SUPERINTENDENT FOR THIS PROJECT INCLUDING A FORMAL RESUME SHOWING QUALIFICATIONS. IN THE EVENT THE SUPERINTENDENT WILL NOT BE PRESENT FOR ANY PERIOD OF TIME DURING CONTRACT WORK THE CONTRACTOR SHALL PROVIDE 48 HOURS NOTICE IN WRITING TO THE DEPARTMENT, INCLUDING THE APPOINTMENT OF A QUALIFIED REPLACEMENT SUPERINTENDENT WHO WILL BE PRESENT DURING THE CONSTRUCTION. WORK SHALL NOT BE ALLOWED TO PROCEED UNLESS THE ASSIGNED SUPERINTENDENT IS PRESENT.

7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE HIS COMPLETE FAMILIARITY WITH THE PROJECT SITE AND COMPONENTS TO INCLUDE SUBSURFACE CONDITIONS OF SOIL AND GROUNDWATER TABLE.

WARNING: EXACT LOCATION OF UNDERGROUND UTILITIES IS NOT KNOWN NOR IS THIS DRAWING TO BE CONSTRUED AS DEPICTING THE LOCATION OF ALL UNDERGROUND UTILITIES OR STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINATION OF LOCATION PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR IS RESPONSIBLE, THEREFORE, FOR ALL DAMAGE AND REPAIR COSTS.

8. DENSITY TESTS OF TRENCH BACKFILL MATERIAL SHALL BE REQUIRED AT INTERVALS OF NOT MORE THAN 500 FEET. DENSITY TESTS OF PAVEMENT OPEN-CUT AREAS INCLUDING ROADS, TURNLANES, AND DRIVES SHALL BE REQUIRED AT EACH OPEN-CUT AT INTERVALS OF NOT MORE THAN 50 FEET. ALL TESTS SHALL COMMENCE AT THE TOP OF CONDUIT AND EVERY 12 INCHES TO THE FINISH GRADE. COMPACTION SHALL BE IN ACCORDANCE WITH "TYPICAL TRENCH DETAIL" AND "FLEXIBLE PAVEMENT REPLACEMENT DETAIL". FLORIDA BEARING TESTS FOR THE STABILITY OF EXISTING SUBSOIL SHALL BE TAKEN AT INTERVALS OF NOT MORE THAN 500 FEET, AND CLOSER AS MIGHT BE NECESSARY IN THE EVENT OF VARIATIONS IN THE STRATA. A CERTIFIED COPY OF THE TESTS SHALL BE PROVIDED TO THE DEPARTMENT AND THE FLORIDA DEPARTMENT OF TRANSPORTATION OR COUNTY ENGINEERING DEPARTMENT DEPENDING ON JURISDICTION. CONTRACTORS BID PRICE SHALL INCLUDE PAYMENT FOR ALL TESTS CONDUCTED BY AN INDEPENDENT TESTING LAB.

9. ANY LANDSCAPING DISTURBED, UNLESS OTHERWISE SHOWN ON THE PLANS, SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTORS EXPENSE.

10. ANY WALK, CURB AND GUTTER OR PAVEMENT DISTURBED, UNLESS OTHERWISE SHOWN ON PLANS, SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. ALL CONSTRUCTION SHALL MEET ADA REQUIREMENTS.

11. ALL SOD IS TO BE PLACED FOR THE FULL WIDTH DISTURBED AT THE PER LINEAR FOOT UNIT PRICE FOR SOD. SOD SHALL BE REPLACED TO MATCH EXISTING KIND UNLESS OTHERWISE SHOWN ON PLANS.

12. ANY TREES AND/OR SCRUB OR OTHER VEGETATION NOT TO BE REPLACED SHALL BE REMOVED FROM THE PROJECT AT THE CONTRACTOR'S EXPENSE.

13. ALL RUBBLE AND UNSUITABLE MATERIAL MUST BE REMOVED FROM THE PROJECT AND DISPOSED OF PROPERLY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

14. MAILBOXES MUST BE MAINTAINED TO BE CAPABLE OF RECEIVING MAIL AT ALL TIMES. CONTRACTOR'S BID PRICE FOR PIPE SHALL INCLUDE MAILBOX MAINTENANCE.

15. ALL CONSTRUCTION DEWATERING (WELL POINTS, SUMPS, ETC.) WILL REQUIRE A DEWATERING PERMIT FROM SOUTH FLORIDA WATER MANAGEMENT DISTRICT. THIS SHALL BE OBTAINED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE PRIOR TO BEGINNING OF CONSTRUCTION. CONTRACTOR'S BID PRICE FOR PIPE SHALL INCLUDE DEWATERING.

16. THE "TRENCH SAFETY ACT" SHALL BE INCORPORATED INTO THIS CONTRACT AS ENACTED BY THE LEGISLATURE OF THE STATE OF FLORIDA TO BE IN EFFECT AS OF OCTOBER 1, 1990.

17. A PERMIT IS REQUIRED FOR ALL WORK WITHIN COUNTY RIGHT-OF-WAY. THIS PERMIT MUST BE OBTAINED BY THE CONTRACTOR FROM THE COUNTY ENGINEERING DEPARTMENT. ALL COSTS PAYABLE BY THE CONTRACTOR. A COPY OF THIS PERMIT MUST BE MAINTAINED ON THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION.

18. ALL CONCRETE AND ASPHALT DRIVES MUST BE REPLACED FROM SAW CUT TO EDGE OF PAVEMENT.

19. LOCATIONS OF FIRE HYDRANTS AND AIR RELEASE VALVES ARE APPROXIMATE ONLY. FINAL LOCATIONS WILL BE DETERMINED BY DEPARTMENT PERSONNEL IN FIELD.

20. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND RESTORATION (IF DAMAGED) OF ALL EXISTING STRUCTURES WITHIN THE CONSTRUCTION LIMITS OF THE PROJECT, INCLUDING BUT NOT LIMITED TO WALLS, FENCES, POWER POLES, MAIL BOXES, DRAINAGE PIPES AND STRUCTURES, ETC..

21. "RECORD DRAWINGS" SHALL INCLUDE FURNISHING THE DEPARTMENT WITH ALL INFORMATION NECESSARY FOR A COMPLETE SET OF RECORD DRAWINGS AS STIPULATED IN THE REFERENCED "MINIMUM DESIGN AND CONSTRUCTION STANDARDS."

22. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL SUPPORT UTILITIES AND SHORE TRENCH AS REQUIRED TO PROTECT AND MAINTAIN EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY EACH UTILITY PRIOR TO ATTEMPTING TO SUPPORT THEIR FACILITIES. IF THE UTILITY REQUIRES THAT ONLY THEIR CREWS SHALL BE ALLOWED TO SUPPORT THEIR FACILITIES, THEN IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE WORK AND PAY THE UTILITY FOR THEIR EXPENSES IF REQUIRED. ALL COSTS FOR THIS WORK SHALL BE AT THE CONTRACTORS EXPENSE AND INCLUDED IN THE CONTRACTORS BID PRICE.

23. OUA MUST BE NOTIFIED OF, CONDUCT INSPECTION, AND ACCEPT ALL MATERIAL DELIVERIES TO THE JOBSITE PRIOR TO INSTALLATION.

SPECIAL NOTES:

1. RIGHT OF WAYS / PROPERTY LINES AS SHOWN ON THE PLANS ARE APPROXIMATE. CONTRACTOR SHALL IDENTIFY ANY AREAS OF CONCERN AND VERIFY ACTUAL RIGHT OF WAY / PROPERTY LINES BY STAKING IN FIELD BY CERTIFIED PROFESSIONAL LAND SURVEYOR. CONTRACTOR SHALL BE RESPONSIBLE TO RELOCATE ANY NEW WATERMAINS THAT ARE PLACED ON PRIVATE PROPERTY. COST FOR THIS SURVEY WORK SHALL BE INCLUDED IN BID UNIT PRICES FOR WATER MAIN.

WATER GENERAL NOTES:

1. ALL CONNECTIONS TO EXISTING MAINS SHALL BE OBSERVED BY THE DEPARTMENT. VALVES ON EXISTING MAINS SHALL BE OPERATED BY DEPARTMENT PERSONNEL OR UNDER THEIR DIRECT SUPERVISION. TAPPING SLEEVE AND VALVE SHALL BE PRESSURE TESTED PRIOR TO TAPPING. IF SERVICE MUST BE CUT OFF TO EXISTING CUSTOMERS, THE DEPARTMENT MUST HAVE THREE DAYS NOTICE TO MAKE NECESSARY NOTIFICATIONS. THE CONTRACTOR M TO PROCEED W SERVICE INTERI READY TO PROC UNLESS OTHER MORE THAN FOL

LOCAL CHLORIN POTABLE WATE

2. THE CON UTILITY AUTHOR DOCUMENTS, IN CONSTRUCTION

3. CONTRAC COST OF BENDS

4. DEFLECT DEFLECTION EX

5. ALL FITTIN

6. MAXIMUM SOURCE FOR F APPROVED BY

7. THE CONT THE CONTRACT IMMEDIATELY.

8. MECHANI MECHANICAL R CONTRACTORS

9. ALL PRES PIPE SHALL INCI

10. AIR RELE AS SHOWN IN T MATCH VAULT IN

11. ALL WATE

12. VALVE ST SHALL BE BOLT COST FOR THIS

13. THE CONT STATIONS SHAL SHOWING METH SHALL BE APPR SHALL BE AT TH

14. THE CONT SHALL INSTALL POINTS SHALL

15. WATER MA 16. WATER MA STANDARDS.

17. MINIMUM LARGER SHALL VALVES.

18. ALL MAINS **REQUIRED 150 I**

19. NEWLY CO DISK (JOSEPH G WATER SYSTEM

THE DEPARTME FLUSHING IS CO MAJOR DEFECT PSI FOR A PERIC PERIOD TO FOU FEET. AN OIL FI PRESSURE TES

SEWER G

WITH A SLOPE

2. VISIBLE L SLOPES BETWE SYSTEM OR POR

3. THE MAXIN

GREATER OCCU

4. MINIMUM LENGTHS WITH

5. MANHOLE IN ACCORDANC

6. ALL GRAV STANDARDS LA

	<u>L=SD_VP</u>	
	14,800	
E:	L=ALLOWABLE LEAKAGE IN GALLONS	
	S= LENGTH OF PIPE IN FEET	
	P = TEST PRESSURE IN PSI	
	D = DIAMETER OF PIPE IN INCHES	

1. SEWERS SHA

STANDARD WATER/SEWER SEPARATION STATEMENT

62-555.314 LOCATION OF PUBLIC WATER SYSTEM MAINS.

FOR THE PURPOSE OF THIS SECTION, THE PHRASE "WATER MAINS" SHALL MEAN MAINS, INCLUDING TREATMENT PLANT PROCESS PIPING, CONVEYING

ER RAW, PARTIALLY TREATED, OR FINISHED DRINKING WATER; FIRE HYDRANT LEADS; AND SERVICE LINES THAT ARE UNDER THE CONTROL OF A PUBLIC ER SYSTEM AND THAT HAVE AN INSIDE DIAMETER OF THREE INCHES OR GREATER.					
PRIZONTAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE 3, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS.					
N OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE DE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING IMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.					
N OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET, AND RABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER.					
V OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX FEET, AND PREFERABLY ET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY- OR PRESSURE-TYPE SANITARY SEWER, WATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. THE MINIMUM INTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE M OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER.					
NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A TSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED "ON-S CTION 381.0065(2), F.S., AND RULE 64E-6.002, F.A.C.	A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN				
VERTICAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY C NS, AND RECLAIMED WATER PIPELINES.	OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE				
NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR ORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX OW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY	R PROPOSED GRAVITY- OR VACUUM-TYPE SANITARY SEWER OR (INCHES, AND PREFERABLY 12 INCHES, ABOVE OR AT LEAST 12 INCHES THE WATER MAIN ABOVE THE OTHER PIPELINE.				
NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR ORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE I OVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERAE	R PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES BLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.				
AT THE UTILITY CROSSINGS DESCRIBED IN PARAGRAPHS (A) AND (B) ABOVE, ONE BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POS DSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE VERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING F C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY- OR PRESSURE-TYPE SA NVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610	FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE SSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, ANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES 0, F.A.C.				
SEPARATION BETWEEN WATER MAINS AND SANITARY OR STORM SEWER MANHOLI					
EFFECTIVE AUGUST 28, 2003, WATER MAINS SHALL NOT BE CONSTRUCTED OR ALT RT OF A STORM SEWER MANHOLE OR INLET STRUCTURE. WHERE IT IS NOT TECHN QUIREMENT (I.E., WHERE THERE IS A CONFLICT IN THE ROUTING OF A WATER MAIN TER MAIN OR THE STORM SEWER IS NOT TECHNICALLY FEASIBLE OR IS NOT ECON S REQUIREMENT (I.E., THE DEPARTMENT SHALL ALLOW CONSTRUCTION OF CONFL NSTRUCT CONFLICT MANHOLES MUST FIRST OBTAIN A SPECIFIC PERMIT FROM TH ST PROVIDE IN THE PRELIMINARY DESIGN REPORT OR DRAWINGS, SPECIFICATION E FOLLOWING INFORMATION:) WATER MAIN SHALL PASS THROUGH, OR COME INTO CONTACT WITH, ANY PART OF A SANITARY SEWER MANHOLE. FECTIVE AUGUST 28, 2003, WATER MAINS SHALL NOT BE CONSTRUCTED OR ALTERED TO PASS THROUGH, OR COME INTO CONTACT WITH, ANY OF A STORM SEWER MANHOLE OR INLET STRUCTURE. WHERE IT IS NOT TECHNICALLY FEASIBLE OR ECONOMICALLY SENSIBLE TO COMPLY WITH THIS JIREMENT (I.E., WHERE THERE IS A CONFLICT IN THE ROUTING OF A WATER MAIN AND A STORM SEWER AND WHERE ALTERNATIVE ROUTING OF THE ER MAIN OR THE STORM SEWER IS NOT TECHNICALLY FEASIBLE OR IS NOT ECONOMICALLY SENSIBLE), THE DEPARTMENT SHALL ALLOW EXCEPTIONS TO REQUIREMENT (I.E., THE DEPARTMENT SHALL ALLOW CONSTRUCTION OF CONFLICT MANHOLES), BUT SUPPLIERS OF WATER OR PERSONS PROPOSING TO STRUCT CONFLICT MANHOLES MUST FIRST OBTAIN A SPECIFIC PERMIT FROM THE DEPARTMENT IN ACCORDANCE WITH PART V OF THIS CHAPTER AND TO PROVIDE IN THE PRELIMINARY DESIGN REPORT OR DRAWINGS, SPECIFICATIONS, AND DESIGN DATA ACCOMPANYING THEIR PERMIT APPLICATION				
ECHNICAL OR ECONOMIC JUSTIFICATION FOR EACH CONFLICT MANHOLE. STATEMENT IDENTIFYING THE PARTY RESPONSIBLE FOR MAINTAINING EACH CON SSURANCE OF COMPLIANCE WITH THE DESIGN AND CONSTRUCTION REQUIREMEN	NFLICT MANHOLE. NTS IN SUB-SUBPARAGRAPHS A. THROUGH D. BELOW.				
EACH WATER MAIN PASSING THROUGH A CONFLICT MANHOLE SHALL HAVE A FLEX COMMODATE DIFFERENTIAL SETTLING BETWEEN THE MAIN AND THE MANHOLE.	IBLE, WATERTIGHT JOINT ON EACH SIDE OF THE MANHOLE TO				
VITHIN EACH CONFLICT MANHOLE, THE WATER MAIN PASSING THROUGH THE MAN /ING HIGH IMPACT STRENGTH (I.E., HAVING AN IMPACT STRENGTH AT LEAST EQUA	HOLE SHALL BE INSTALLED IN A WATERTIGHT CASING PIPE AL TO THAT OF 0.25-INCH-THICK DUCTILE IRON PIPE).				
ACH CONFLICT MANHOLE SHALL HAVE AN ACCESS OPENING, AND SHALL BE SIZED	D, TO ALLOW FOR EASY CLEANING OF THE MANHOLE.				
GRATINGS SHALL BE INSTALLED AT ALL STORM SEWER INLETS UPSTREAM OF EACI MANHOLE.	H CONFLICT MANHOLE TO PREVENT LARGE OBJECTS FROM ENTERING				
EPARATION BETWEEN FIRE HYDRANT DRAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, LAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS. NEW OR RELOCATED FIRE HYDRANTS WITH ERGROUND DRAINS SHALL BE LOCATED SO THAT THE DRAINS ARE AT LEAST THREE FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER CE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.; AT LEAST THREE FEET, AND FERABLY TEN FEET, FROM ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER; AT LEAST SIX FEET, AND PREFERABLY TEN FEET, FROM ANY STING OR PROPOSED GRAVITY- OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT ULATED UNDER PART III OF CHAPTER 62-610, F.A.C.; AND AT LEAST TEN FEET FROM ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT DISPOSAL SYSTEM" AS DEFINED IN SECTION 381 0065(2) E.S. AND RUI E 64F-6 002 E.A.C.					
EXCEPTIONS. WHERE IT IS NOT TECHNICALLY FEASIBLE OR ECONOMICALLY SENSI (2) ABOVE, THE DEPARTMENT (FDEP) SHALL ALLOW EXCEPTIONS TO THESE REQU OVIDE TECHNICAL OR ECONOMIC JUSTIFICATION FOR EACH EXCEPTION AND PROV EL OF RELIABILITY AND PUBLIC HEALTH PROTECTION. ACCEPTABLE ALTERNATIVE	IBLE TO COMPLY WITH THE REQUIREMENTS IN SUBSECTION (1) IIREMENTS IF SUPPLIERS OF WATER OR CONSTRUCTION PERMIT APPLICANTS /IDE ALTERNATIVE CONSTRUCTION FEATURES THAT AFFORD A SIMILAR E CONSTRUCTION FEATURES INCLUDE THE FOLLOWING:				
VHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN THE REQUIRED MINIMUM HORIZONTAL DISTANCE FROM ANOTHER PIPELINE WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND JOINTS IN THE WATER MAIN ARE BEING LOCATED LESS THAN THE WIRED MINIMUM DISTANCE FROM JOINTS IN THE OTHER PIPELINE:					
SE OF PRESSURE-RATED PIPE CONFORMING TO THE AMERICAN WATER WORKS ASSOCIATION STANDARDS INCORPORATED INTO RULE 55.330, F.A.C., FOR THE OTHER PIPELINE IF IT IS A GRAVITY- OR VACUUM-TYPE PIPELINE; SE OF WELDED, FUSED, OR OTHERWISE RESTRAINED JOINTS FOR EITHER THE WATER MAIN OR THE OTHER PIPELINE; OR SE OF WATERTIGHT CASING PIPE OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR EITHER THE WATER MAIN OR THE OTHER PIPELINE IN OR THE OTHER PIPELINE. VHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN THREE FEET HORIZONTALLY FROM ANOTHER PIPELINE AND WHERE AN DERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND IS BEING LAID LESS THAN THE REQUIRED MINIMUM VERTICAL DISTANCE FROM THE					
ER PIPELINE: SE OF PIPE, OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (I.E., HAVING AN IMPACT STRENGTH AT LEAST EQUAL TO THAT OF INCH-THICK DUCTILE IRON PIPE) OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR THE WATER MAIN; AND SE OF PIPE, OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (I.E., HAVING AN IMPACT STRENGTH AT LEAST EQUAL TO THAT OF INCH-THICK DUCTILE IRON PIPE) OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR THE OTHER PIPELINE IF IT IS NEW AND IS INCH-THICK DUCTILE IRON PIPE) OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR THE OTHER PIPELINE IF IT IS NEW AND IS					
E: OKEECHOBEE UTILITY AUTHORITY OPERATING HOURS MONDAY-THURSDAY 7:00 am - 5:30 pm					
WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADOPTION BY STEVEN L. DOBBS, P. E., SHALL BE WITHOUT LIABILITY TO STEVEN L. DOBBS ENGINEERING, LLC.					
	LOUMAX DEVELOPMENT, INC. PROPOSED SITE IMPROVEMENTS LOCATED IN THE CITY OF OKEECHOBEE	YOU DIG IN FLORIDA, IT'S THE LAW Sunshine State One Call of Florida, Inc.			
	UTILITY NOTES	JOB No.: 2019-043 SHEET 12 OF 12			

RUPTION. THE DEPARTMENT WILL POSTPONE A SERVICE CUT OFF IF THE CONTRACTOR IS NOT CEED ON SCHEDULE. SUCH CONNECTIONS SHALL BE MADE AT NIGHT TO MINIMIZE EFFECTS WISE AUTHORIZED BY THE DEPARTMENT. NO CUSTOMER SHOULD BE WITHOUT SERVICE FOR UR HOURS. NATION WILL BE REQUIRED FOR ALL PIPE AND FITTINGS USED TO COMPLETE CONNECTIONS WITH R. NTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF OKEECHOBEE RITY MINIMUM DESIGN AND CONSTRUCTION STANDARDS, ONE COPY OF THE CONTRACT NCLUDING PLANS, SPECIFICATIONS AND SPECIAL PROVISIONS, AND COPIES OF ANY REQUIRED N PERMITS.	(1) HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SAM MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND I (A) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROV OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSI RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.	NITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE DISPOSAL SYSTEMS. VIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE GED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING
NATION WILL BE REQUIRED FOR ALL PIPE AND FITTINGS USED TO COMPLETE CONNECTIONS WITH R. NTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF OKEECHOBEE RITY MINIMUM DESIGN AND CONSTRUCTION STANDARDS, ONE COPY OF THE CONTRACT NCLUDING PLANS, SPECIFICATIONS AND SPECIAL PROVISIONS, AND COPIES OF ANY REQUIRED N PERMITS.	(A) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVOUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSI RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.	VIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE ED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING
NTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF OKEECHOBEE RITY MINIMUM DESIGN AND CONSTRUCTION STANDARDS, ONE COPY OF THE CONTRACT NCLUDING PLANS, SPECIFICATIONS AND SPECIAL PROVISIONS, AND COPIES OF ANY REQUIRED N PERMITS.		
N PERMITS.	(B) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROV PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE	VIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET, AND OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER.
TOR SHALL PROVIDE PROPER BENDS TO MAINTAIN REQUIRED DEPTH AND ALIGNMENT OF PIPE. S NOT DESIGNATED ON PLANS SHALL BE INCLUDED WITH THE UNIT PRICE FOR PIPE.	(C) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF A WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT F	IVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX FEET, AND PREFERABLY ANY EXISTING OR PROPOSED GRAVITY- OR PRESSURE-TYPE SANITARY SEWER, REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. THE MINIMUM
PIPE AS NECESSARY TO OBTAIN THE REQUIRED ALIGNMENT. USE APPROPRIATE FITTINGS WHEN (CEEDS 75% OF MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION.	BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF	THE SEWER.
NGS SHALL BE MECHANICALLY RESTRAINED. REFER TO MECHANICAL RESTRAINT DETAIL.	(D) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROY OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED	VIDE A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE) "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN
I LENGTH OF WATER MAIN AND FORCE MAIN PRESSURE TEST SHALL BE 1500 FEET. WATER LUSHING, FILLING AND PRESSURE TESTING THE WATER MAIN SHALL BE FROM A TREATED SOURCE THE DEPARTMENT.	SECTION 381.0065(2), F.S., AND RULE 64E-6.002, F.A.C. (2) VERTICAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITA MAINS, AND RECLAIMED WATER PIPELINES.	ARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE
TRACTOR SHALL VERIFY THE LOCATION OF EXISTING WATER SERVICES PRIOR TO CONSTRUCTION. FOR SHALL PROTECT THE EXISTING WATER SERVICES FROM DAMAGE AND REPAIR ANY BREAKS	(A) NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTIN STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAS BELOW THE OUTSIDE OF THE OTHER RIPE INF. HOWEVER, IT IS REFERANCE TO	NG OR PROPOSED GRAVITY- OR VACUUM-TYPE SANITARY SEWER OR ST SIX INCHES, AND PREFERABLY 12 INCHES, ABOVE OR AT LEAST 12 INCHES
CALLY RESTRAIN THREE (3) FULL LENGTHS EACH SIDE OF ALL BENDS AND AS STIPULATED IN THE ESTRAINT DETAIL. MECHANICAL RESTRAINTS SHALL BE EITHER EBBA, TYLER OR UNIFLANGE. THE BID PRICE FOR PIPE, GATE VALVES AND FITTINGS SHALL INCLUDE MECHANICAL RESTRAINT.	(B) NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTIN STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHAL	NG OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR L BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES
SURE TESTS SHALL BE IN ACCORDANCE WITH AWWA STANDARDS. CONTRACTOR'S BID PRICE FOR LUDE PRESSURE TESTING.	ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREF	ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE
ASE VALVE VAULT COVERS SHALL BE CONSTRUCTED PER DETAIL "STANDARD ALUMINUM COVER" HE DEPARTMENTS MINIMUM DESIGN AND CONSTRUCTION STANDARDS. MINIMUM COVER SIZE TO NSIDE WALL DIMENSIONS. ER SERVICES SHALL BE HORIZONTAL DIRECTIONAL DRILLED UNDER EXISTING PAVEMENT	OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR A CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEY F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY- OR PRESSURE-TY	AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH S ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY YING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, 'PE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES
EM RISER SHALL BE REQUIRED WHERE OPERATING NUT DEPTH EXCEEDS 4 FEET. THE RISER	(3) SEPARATION BETWEEN WATER MAINS AND SANITARY OR STORM SEWER MAN	NHOLES.
ED TO THE VALVE NUT. METHOD AND MATERIALS SHALL BE APPROVED BY THE DEPARTMENT. WORK SHALL BE INCLUDED IN THE CONTRACTORS BID UNIT PRICE FOR GATE VALVES.	(A) NO WATER MAIN SHALL PASS THROUGH, OR COME INTO CONTACT WITH, ANY	Y PART OF A SANITARY SEWER MANHOLE.
TRACTOR SHALL CLEAN MAINS USING APPROVED POLYURETHANE PIG(S). TEMPORARY CLEANING LL BE CONSTRUCTED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE A CLEANING PLAN HOD OF FILLING AND CLEANING MAINS PRIOR TO START OF CONSTRUCTION. THE CLEANING PLAN ROVED BY THE DEPARTMENT PRIOR TO CONSTRUCTION. ALL COSTS FOR FILLING AND CLEANING HE CONTRACTORS EXPENSE AND INCLUDED IN BID PRICE FOR PIPE.	(B) EFFECTIVE AUGUST 28, 2003, WATER MAINS SHALL NOT BE CONSTRUCTED OR ALTERED TO PASS THROUGH, OR COME INTO CONTACT WITH, ANY PART OF A STORM SEWER MANHOLE OR INLET STRUCTURE. WHERE IT IS NOT TECHNICALLY FEASIBLE OR ECONOMICALLY SENSIBLE TO COMPLY WITH THIS REQUIREMENT (I.E., WHERE THERE IS A CONFLICT IN THE ROUTING OF A WATER MAIN AND A STORM SEWER AND WHERE ALTERNATIVE ROUTING OF THE WATER MAIN OR THE STORM SEWER IS NOT TECHNICALLY FEASIBLE OR IS NOT ECONOMICALLY SENSIBLE), THE DEPARTMENT SHALL ALLOW EXCEPTIONS TO	
TRACTOR SHALL INSTALL TESTING POINTS FOR PRESSURE TESTING MAINS. THE CONTRACTOR AND REMOVE AND PLUG CORP. STOPS PER DEPARTMENT STANDARDS. THE LOCATION OF TEST BE APPROVED BY THE DEPARTMENT.		CONFLICT MANHOLES), BUT SUPPLIERS OF WATER OR PERSONS PROPOSING TO OM THE DEPARTMENT IN ACCORDANCE WITH PART V OF THIS CHAPTER AND ATIONS, AND DESIGN DATA ACCOMPANYING THEIR PERMIT APPLICATION
AIN DISINFECTION SHALL BE IN ACCORDANCE WITH CURRENT AWWA, BULLETIN C-651. AINS AND APPURTENANCES SHALL BE IN ACCORDANCE WITH CURRENT AWWA AND NSF	1. TECHNICAL OR ECONOMIC JUSTIFICATION FOR EACH CONFLICT MANHOLE. 2. A STATEMENT IDENTIFYING THE PARTY RESPONSIBLE FOR MAINTAINING EACH 3. ASSURANCE OF COMPLIANCE WITH THE DESIGN AND CONSTRUCTION REQUIR	H CONFLICT MANHOLE. REMENTS IN SUB-SUBPARAGRAPHS A. THROUGH D. BELOW.
COVER TO FINISHED GRADE OVER WATER MAINS SHALL BE 30 INCHES UP TO 8" DIAMETER; 10" OR HAVE 36" COVER OR GREATER TO PROVIDE A MINIMUM 18" COVER OVER OPERATING NUT OF GATE	A. EACH WATER MAIN PASSING THROUGH A CONFLICT MANHOLE SHALL HAVE A ACCOMMODATE DIFFERENTIAL SETTLING BETWEEN THE MAIN AND THE MANHOL	FLEXIBLE, WATERTIGHT JOINT ON EACH SIDE OF THE MANHOLE TO LE.
S SHALL BE TESTED FOR LEAKAGE. WATER SHALL BE SUPPLIED TO THE MAIN AND PUMPED TO THE PSI PRESSURE.	B. WITHIN EACH CONFLICT MANHOLE, THE WATER MAIN PASSING THROUGH THE MANHOLE SHALL BE INSTALLED IN A WATERTIGHT CASING PIPE HAVING HIGH IMPACT STRENGTH (I.E., HAVING AN IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25-INCH-THICK DUCTILE IRON PIPE).	
ONSTRUCTED FIRE HYDRANTS THROUGHOUT THE PROJECT SHALL HAVE A RED "OUT OF SERVICE" 6. POLLARD CO. OR EQUAL) ATTACHED TO 4" PUMPER NOZZLE CAP. DISK TO BE REMOVED AFTER 1 HAS BEEN APPROVED FOR SERVICE BY THE DEPARTMENT.	C. EACH CONFLICT MANHOLE SHALL HAVE AN ACCESS OPENING, AND SHALL BE D. GRATINGS SHALL BE INSTALLED AT ALL STORM SEWER INLETS UPSTREAM OF THE MANHOLE	SIZED, TO ALLOW FOR EASY CLEANING OF THE MANHOLE.
NT SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF ANY TESTING PROCEDURES. AFTER MPLETED, LINE PRESSURE SHALL BE APPLIED TO THE WATER SYSTEM TO DETERMINE IF ANY S ARE PRESENT. THE COMPLETE WATER SYSTEM SHALL THEN BE TESTED AT A PRESSURE OF 150 DD OF NOT LESS THAN TWO HOURS. THE DEPARTMENT MAY, AT ITS DISCRETION, INCREASE THE IR HOURS. MAXIMUM LENGTH OF LINE TO BE TESTED AT ONE TIME SHALL NOT EXCEED 1500 LINEAR LLED PRESSURE GAUGE UP TO 200 PSI AT 2 POUND INCREMENTS SHALL BE USED FOR ALL TS. NO VISIBLE MOVEMENT OF THE SYSTEM SHALL OCCUR AND LEAKAGE SHALL NOT EXCEED: $L=SD \sqrt{P}$ 14.800	(4) SEPARATION BETWEEN FIRE HYDRANT DRAINS AND SANITARY OR STORM SE RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOS/ UNDERGROUND DRAINS SHALL BE LOCATED SO THAT THE DRAINS ARE AT LEAS FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PREFERABLY TEN FEET, FROM ANY EXISTING OR PROPOSED VACUUM-TYPE SAN EXISTING OR PROPOSED GRAVITY- OR PRESSURE-TYPE SANITARY SEWER, WAS REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.; AND AT LEAST TEN FEET AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381.0065(2). F.S., AND RULF 64F	EWERS, WASTEWATER OR STORMWATER FORCE MAINS, AL SYSTEMS. NEW OR RELOCATED FIRE HYDRANTS WITH BT THREE FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER PART III OF CHAPTER 62-610, F.A.C.; AT LEAST THREE FEET, AND NITARY SEWER; AT LEAST SIX FEET, AND PREFERABLY TEN FEET, FROM ANY STEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT IT FROM ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT E-6.002, F.A.C.
WHERE: L=ALLOWABLE LEAKAGE IN GALLONS	(5) EXCEPTIONS. WHERE IT IS NOT TECHNICALLY FEASIBLE OR ECONOMICALLY S	SENSIBLE TO COMPLY WITH THE REQUIREMENTS IN SUBSECTION (1)
S= LENGTH OF PIPE IN FEET P = TEST PRESSURE IN PSI D = DIAMETER OF PIPE IN INCHES	OR (2) ABOVE, THE DEPARTMENT (FDEP) SHALL ALLOW EXCEPTIONS TO THESE F PROVIDE TECHNICAL OR ECONOMIC JUSTIFICATION FOR EACH EXCEPTION AND LEVEL OF RELIABILITY AND PUBLIC HEALTH PROTECTION. ACCEPTABLE ALTERN,	REQUIREMENTS IF SUPPLIERS OF WATER OR CONSTRUCTION PERMIT APPLICANTS PROVIDE ALTERNATIVE CONSTRUCTION FEATURES THAT AFFORD A SIMILAR IATIVE CONSTRUCTION FEATURES INCLUDE THE FOLLOWING:
ENERAL NOTES:	(A) WHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN THE REQU AND WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE	UIRED MINIMUM HORIZONTAL DISTANCE FROM ANOTHER PIPELINE AND JOINTS IN THE WATER MAIN ARE BEING LOCATED LESS THAN THE
ALL BE LAID ACCURATELY TO BOTH GRADE AND LINE. THE OUA WILL NOT ACCEPT ANY LINE LAID LESS THAN 10% OF THE MINIMUM SLOPE.	REQUIRED MINIMUM DISTANCE FROM JOINTS IN THE OTHER PIPELINE: 1. USE OF PRESSURE-RATED PIPE CONFORMING TO THE AMERICAN WATER WORKS ASSOCIATION STANDARDS INCORPORATED INTO RULE 62-555.330, F.A.C., FOR THE OTHER PIPELINE IF IT IS A GRAVITY- OR VACUUM-TYPE PIPELINE; 2. USE OF WELDED, FUSED, OR OTHERWISE RESTRAINED JOINTS FOR EITHER THE WATER MAIN OR THE OTHER PIPELINE; OR 3. USE OF WATERTIGHT CASING PIPE OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR EITHER THE WATER MAIN OR THE OTHER PIPELINE. (B) WHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN THREE FEET HORIZONTALLY FROM ANOTHER PIPELINE AND WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND IS BEING LAID LESS THAN THREE FEET HORIZONTALLY FROM ANOTHER PIPELINE AND WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND IS BEING LAID LESS THAN THE REQUIRED MINIMUM VERTICAL DISTANCE FROM THE OTHER PIPELINE: 1. USE OF PIPE, OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (I.E., HAVING AN IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25-INCH-THICK DUCTILE IRON PIPE) OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR THE WATER MAIN; AND 2. USE OF PIPE, OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (I.E., HAVING AN IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25-INCH-THICK DUCTILE IRON PIPE) OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR THE WATER MAIN; AND 2. USE OF PIPE, OR CASING PIPE, HAVING HIGH HIPACT STRENGTH (I.E., HAVING AN IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25-INCH-THICK DUCTILE IRON PIPE) OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR THE WATER MAIN; AND 2. USE OF PIPE, OR CASING PIPE, HAVING HIGH HIPACT STRENGTH (I.E., HAVING AN IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25-INCH-THICK DUCTILE IRON PIPE, ONCORCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR THE WATER MAIN; AND 2. USE OF PIPE, OR CASING PIPE, HAVING HIGH HIPACT STRENGTH (I.E., HAVING AN IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25-INCH-THICK DUCTILE IRON PIPE) OR CONCRETE FOR ASTRENGTH TO LEAST FOUR INCHES THICK FOR T	
EAKAGE, DEFLECTIONS, HORIZONTAL MISALIGNMENT, SIGNIFICANT BOWING, NON-CONSTANT EN MANHOLES AND SAGGING JOINTS SHALL BE GROUNDS FOR REJECTION OF THE INSTALLED RTIONS THEREOF.		
MUM ACCEPTABLE DEVIATION SHALL BE 7.5% OF THE INSIDE DIAMETER OF THE PIPE WITH NO JRRENCE THAT ONE EACH HUNDRED FEET.		
COVER ON A PVC SANITARY SEWER SHALL BE 4' TO THE INVERT, DIP SHALL BE PLACED FOR LESS THAN MINIMUM COVER.		
S SHALL BE SET ACCORDING TO THE APPROVED CONSTRUCTION PLANS AND SHALL BE PRECAST WITH THE OUA'S STANDARD DETAILS.	0.25-INCH-THICK DUCTILE IKON PIPE) OR CONCRETE ENCASEMENT AT LEAST FO CONVEYING WASTEWATER OR RECLAIMED WATER.	
ITY SEWER LINES SHALL BE INSPECTED AND TESTED IN ACCORDANCE WITH OUA MANUAL OF TEST VERSION.	NOTE: OKEECHOBEE UTILITY AUTHORITY OPERATING HOURS MONDAY-THURSDAY 7:00 am - 5:30 pm	STANDARDS (LATEST EDITION) ARE TO BE ADHERED TO AND WILL BE ENFORCED TO AT LEAST THESE MINIMUM STANDARDS.
THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECIFIC PURPOR	E AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AN	ND ADOPTION BY STEVEN L. DOBBS, P. E., SHALL BE WITHOUT LIABILITY TO STEVEN L. DOBBS ENGINEERING, LLC.
Steven L. Dobbs Engineering, LLC 1062 JAKES WAY		LOUMAX DEVELOPIVIENT, INC. PROPOSED SITE IMPROVEMENTS LOCATED IN THE CITY OF OKEECHOBEE OF Florida, Inc.
Okoochohoo El 24074 II $ $		
Phone: (863) 824-7644		UTILITY NOTES

Staff Report Site Plan Review:

Prepared for:	The City of Okeechobee
Applicant:	Loumax Development, Inc.
Address:	312 SW 7 th Avenue
Petition No.:	21-002-TRC
Description:	Addition to Existing Manufacturing Facility

General Information

Applicant/Owner	Loumax Development, Inc
Applicant Address	312 SW 7 th Avenue Okeechobee, FL 34974
Site Address	312 SW 7 th Street
Parcel Identification	3-15-37-35-0010-00620-0110
Contact Person	Steven L. Dobbs
Contact Phone Number	863.634.0194
Contact Email Address	sdobbs@stevedobbsengineering.com

For the legal description of the project or other information regarding this application, please refer to the application submittal package which is available by request at City Hall and is posted on the City's website prior to the advertised public meeting at https://www.cityofokeechobee.com/agendas.html.

Future Land Use, Zoning and Existing Use

	Existing	Proposed
Future Land Use	Industrial	Industrial
Zoning	Industrial	Industrial
Use of Property	Manufacturing	Manufacturing
Acreage	4.82 acres	4.82 acres

General Description

The Applicant owns an existing manufacturing facility which has occupied a 1.64 acre parcel. Recently the City approved a future land use map amendment to Industrial (20-002-SSA), a rezoning to Industrial (20-001-R), and a right-of-way abandonment (20-002-SE) for adjacent property to the south which totals 3.18 acres. The Applicant is now proposing to construct additional warehouse, manufacturing, and office space which will occupy the adjacent property as well as some of the existing site and connect to the existing facility. Additional parking facilities, loading docks, and a stormwater detention area are also proposed.

The existing facility contained 600 square feet of office area and 17,000 square feet of warehouse/manufacturing area. The proposed addition contains 2,000 square feet of office area and 20,651 square feet of warehouse/manufacturing area. The Applicant has stated that all associated parcels are being joined to create one 4.82 acre parcel, though this action has yet to be completed.

Future Land Use, Zoning and Existing Use on Surrounding Properties

North	Future Land Use	Industrial
	Zoning	Industrial
	Existing Use	Light Industrial
	Future Land Use	Single Family Residential
East	Zoning	Residential Multiple Family
	Existing Use	Single Family and Duplex Residences
South	Future Land Use	Multifamily Residential
	Zoning	Residential Multiple Family
	Existing Use	Childcare Facility
	Future Land Use	Multifamily Residential
West	Zoning	Residential Multiple Family
	Existing Use	Approved site plan for church

Adequacy of Public Facilities

POTABLE WATER AND SANITARY SEWER: Potable water and sanitary sewer will be provided by the Okeechobee Utility Authority. Applying the City's Level of Service standard for nonresidential use of 0.15 gallons of water per day per square foot (gpd/sf) to the additional 22,651 square feet of building floor area indicates a demand of about 3,398 gallons of potable water per day.

SOLID WASTE DISPOSAL: On several occasions the County has confirmed a considerable level of excess capacity available to serve the solid waste disposal needs of other developments in the City. It's reasonable that the volume of solid waste generated by the proposed establishment can also be accommodated within the capacity of the County's Solid Waste Facility.

DRAINAGE: The Applicant has provided a drainage report and the site plan includes a stormwater retention feature, both of which will require review by the City's engineering service.

TRAFFIC GENERATION, ACCESS AND EGRESS:

The site plan depicts three new driveways on SW 7th Avenue in addition to the existing driveway for a total of 4 driveways, each providing ingress/egress, with the southernmost driveway intended for large truck access.

The Institute of Transportation Engineers provides an estimated trip generation rate for manufacturing at 3.82 weekday daily vehicle trips per 1,000 square feet. For a 40,251 square foot facility, this equates to an estimated 154 daily vehicle trips.

In addition to the standard size vehicle trips, expansion of this manufacturing facility will increase the number of semi-trucks coming and going in this predominantly residential neighborhood. The applicant has provided a truck route plan indicating that these trucks will be accessing the site from SW 7th Ave via SR-70. The applicant has agreed to bear the cost of improving the impacted section of local roadway (the section of SW 7th Ave from SR-70 to the southernmost proposed driveway of the expanded facility) in order to mitigate the expected deterioration of this roadway due to the increase in heavy truck traffic.

INTERIOR CIRCULATION:

Internal circulation of the proposed addition seems adequate.

SERVICE VEHICLE ACCESS AND EGRESS:

A. Fire Truck

The appropriateness of this plan will be addressed by the Fire Department.

B. Loading Zone

The proposed addition includes a loading dock sufficiently wide to accommodate at least three large trucks.

C. <u>Dumpster Location and Trash Collection</u>

No dumpster enclosure is depicted on the plans. The applicant should specify how trash storage and collection will be handled.

Compatibility with Adjacent Uses

The railway runs along the north property line and existing industrial uses lie to the north of that. The vacant properties to the east and west are zoned industrial and also have the railway running along their northern property lines. There are single family residences to the south, though the plans depict a proposed buffer of trees, shrubs and a drainage area between the proposed structures and the southern property line.

Compliance with Land Development Codes

Regulation	Required	Provided
Min front yard setback (SW 7 th Ave) §90-345(2)	25'	Proposed building: 49'
Min side yard setback §90-345(2)	15'; 40' abutting residential zoning district	Proposed building: 444' from south side PL
Min rear yard setback §90-345(2)	20'; 40' abutting residential zoning district	Proposed building: 75'
Max lot coverage §90-345(3)	50%	20%
Max impervious surface §90-345(3)	85%	47%
Max height §90-345(4)	45'	22'
Min parking space dimensions §90-511(b)	9' by 20'	Parking spaces proposed on east side are only 10' by 18'
Min ADA parking space dimensions FL Accessibility Code §502	12' by 20' w/ a 5' wide access aisle	In compliance
Min Loading space dimensions §90-511(c)	10' by 30' w/14' vertical clearance	Large loading dock proposed
Min drive aisle width §90-511(d)(2)	24' for spaces 75° to 90° 20' for spaces 60° to 74.9° 16' for spaces less than 60°	In compliance
Paving §90-511(e)(1)	Each parking and loading space shall be paved	In compliance
Parking and loading space layout §90-511(e)(2)	Each parking or loading space shall open directly onto a driveway that is not a public street, and each parking space shall be designed to permit access without moving another vehicle.	In compliance

Regulation	Required	Provided
Pedestrian oriented design §90-511(e)(3)	Buildings, parking and loading areas, landscaping and open spaces shall be designed so that pedestrians moving between parking areas and buildings are not unreasonably exposed to vehicular traffic areas.	In compliance
Pedestrian walks §90-511(e)(4)	Paved pedestrian walks shall be provided along the lines of the most intense use, particularly between building entrances to streets, parking areas, and adjacent buildings.	Provided
Loading space identification §90-511(e)(5)	Loading facilities shall be identified as to purpose and location when not clearly evident.	Loading dock denotes loading area
Min parking space setback §90-511(e)(6)	No parking space accessed via a driveway from a public road shall be located closer than 20 feet from the right-of-way line of said public road.	In compliance
Min number of parking spaces §90-512(5) §90-512(6) §90-512(2)	 1 per 1,000 sq ft of warehouse floor area up to 20,000 square feet plus 1 per 2,000 square feet of floor area to 40,000 square feet 1 per 300 sq ft of office floor area <u>29 parking spaces required for</u> <u>37,651 sf warehouse area</u> <u>9 parking spaces required for 2600</u> <u>sf office area</u> 	51 parking spaces
Min number of ADA parking spaces Florida Accessibility Code §208.2	For facilities with 51 - 75 parking spaces, at least 3 must be ADA spaces	3 ADA parking spaces provided
Min number of Loading spaces §90-513(2)	1 for 5,000 to 25,000 sf, plus 1 for 25,000 to 60,000 sf of floor area	Large loading dock proposed to accommodate at least 3 trucks
Min Landscaping §90-532	1 tree and 3 shrubs/3,000 sf of lot area. <u>210,145 sf ÷ 3,000 = 70 trees and</u> <u>210 shrubs required</u>	80 trees 210+ shrubs

Regulation	Required	Provided
Landscaping for parking and vehicular use areas	18 sq ft of landscaping required per required parking space.	In compliance
§90-533(1)		
Landscaping for parking and vehicular use	One tree per 72 sf of required landscape area	In compliance
areas §90-533(2)	<u>684 ÷ 72 = 10 trees</u>	
Landscaping for parking and vehicular use areas §90-533(4)	Two feet of landscaping required between buildings and vehicular use areas.	In compliance.
Landscaping for parking and vehicular use areas §90-533(5)	Min. dimension of landscaped areas must not be less than 4' except adjacent to on-site buildings.	In compliance
Landscaping for parking and vehicular use areas §90-533(6)	One landscaped island at least 5' by 15' w/at least one tree must be provided for each 10 required parking spaces w/ a maximum of 12 uninterrupted parking spaces in a row.	In compliance
Landscaping for parking and vehicular use areas §90-533(7)	The remainder of a parking landscape area shall be landscaped with grass, ground cover, or other landscape material.	Not indicated
Landscape buffer areas §90-534(1)	10' minimum width of street frontage buffers	Buffer provided along SW 7 th Ave is not in compliance
Landscape buffer areas §90-534(1)	2' minimum width of property line buffers	In compliance

Regulation	Required	Provided
	1 tree and 3 shrubs for each 300 square feet of required landscaped buffer <u>990 linear ft of frontage on SW 7th</u> <u>Ave minus 130' of driveway width is</u> <u>860'. With 10' wide buffer 8,600 sf of</u> <u>landscaped area is required with 29</u> <u>trees and 86 shrubs</u>	Not in compliance
Landscape buffer areas §90-534(2)	<u>200 linear ft of south property line</u> requires 400 sf of landscaped area with 1 tree and 4 shrubs	In compliance
	<u>1,031 linear ft of west property line</u> <u>requires 2,062 sf of landscaped</u> <u>area with 7 trees and 21 shrubs</u>	In compliance
	240 linear ft of north property line requires 480 sf of landscaped area with 2 trees and 5 shrubs	In compliance
Landscape buffer areas §90-534(3)	Trees may be planted in clusters, but shall not exceed 50 feet on centers abutting the street.	In compliance
Landscape buffer areas §90-534(4)	The remainder of a landscape buffer shall be landscaped with grass, ground cover, or other landscape material	Not indicated
Species diversification §90-538(c)	When more than ten trees are required to be planted, two or more species shall be used.	Notation indicates that plantings will comply
Tree spacing from utility structures §90-538(d)	Trees and shrubs shall not be planted in a location where at their maturity they would interfere with utility services (in accordance with §90-543).	Notation indicates that plantings will comply
Shade §90-538(e)	Trees should maximize the shading of pedestrian walks and parking spaces.	In compliance
Landscape area barriers §90-538(g)	Landscaping shall be protected from vehicular encroachment by means of curbs, wheel stops, walks or similar barriers.	Not indicated

Regulation	Required	Provided
Drought tolerance §90-540(b)	Plants required to be installed shall be elected from the South Florida Water Management District's Xeriscape Plant Guide.	Notation indicates that plantings will comply
Drought tolerance §90-540(b)	At least 75 percent of the total number of plants required shall be state native very drought tolerant species as listed in the South Florida Water Management District Xeriscape Plant Guide. However, when a landscape irrigation system is installed, at least 75 percent or the total number of plants required shall be state native moderate or very drought tolerant species.	Notation indicates that plantings will comply
Min tree size §90-540(c)	Trees shall be at least ten feet high and two inches in diameter measured four feet above ground level at the time of planting.	Notation indicates that plantings will comply
Prohibited species §90-542	Species listed in §90-542 shall not be planted.	Notation indicates that plantings will comply
Fencing §90-639(a)	Fences shall not exceed a height of five feet in front of the front building line, nor a height of eight feet elsewhere	Not in compliance
Sidewalks § 78-36(a)(1)	Sidewalks required adjacent to right- of-way	A sidewalk is already provided in ROW along SW 7 th Ave
Lighting § 78-71(a)(5)	All off-street parking areas, service roads, walkways and other common use exterior areas open to the public shall have a minimum of one-half horizontal foot-candle power of artificial lighting. Lighting, when provided, shall be directed away from public streets and residential areas and shall not be a hazard or distraction to motorists traveling a street.	Photometric plan provided which demonstrates adequate illumination of the parking area with minimal illumination intensity adjacent to ROW.

Recommendations

Based on the foregoing analyses, we recommend that approval of this site plan be conditional upon the following criteria being met prior to issuance of any building permits:

- 1. A joinder/unity of title must be completed for all associated parcels: 2-21-37-35-0A00-00005-0000, 3-15-37-35-0010-01900-0010, 3-21-37-35-0020-02510-0130, 3-15-37-35-0010-01910-0010.
- 2. The applicant should either be approved for a variance to allow relief from the landscape buffer requirements of City landscape code section 90-534, or the site plan should be revised to meet all landscape buffer requirements.
- 3. The remainder of the parking landscape areas and buffer landscape areas which are not occupied by trees and shrubs shall be landscaped with grass, ground cover, or other landscape material (such as mulch).
- 4. The applicant should either be approved for a variance to allow relief from the maximum fence height requirements of City code section 90-639, or the site plan should be revised to meet maximum allowable fence heights.
- 5. The applicant should either be approved for a variance to allow relief from the minimum parking space dimensions of City code section 90-511(b), or the site plan should be revised to provide parking spaces which are at least 9'x20'.
- 5. The applicant shall pay the City for the costs associated with the necessary improvements to SW 7th Ave as determined by the City engineering service.
- 6. The applicant should provide details regarding the proposed storage and collection of trash which satisfies all requirements of the City's Public Works Director.
- 7. The appropriateness of this plan as it applies to fire truck access should be addressed by the Fire Department in their review.
- 8. The City's engineering service should review the proposed stormwater facilities and the submitted drainage report to ensure on site stormwater will be captured and released according to all applicable standards.

Submitted by:

Ben Smith, AICP Sr. Planner, LaRue Planning

Submitted: July 7, 2021

TRC Hearing date: July 15, 2021

Attachments: Future Land Use, Subject & Environs; Zoning, Subject & Environs; Existing Land Use, Subject & Environs

ZONING Subject Site and Environs

EXISTING LAND USE Subject Site and Environs

