# TOWN OF MANGONIA PARK

PALM BEACH COUNTY, FLORIDA

# ADDIE GREENE MUNICIPAL PARK 2018-2019 IMPROVEMENT PLAN



SECTION 5, TOWNSHIP 43 SOUTH, RANGE 43 EAST (PALM BEACH COUNTY, FLORIDA)
LOCATION MAP

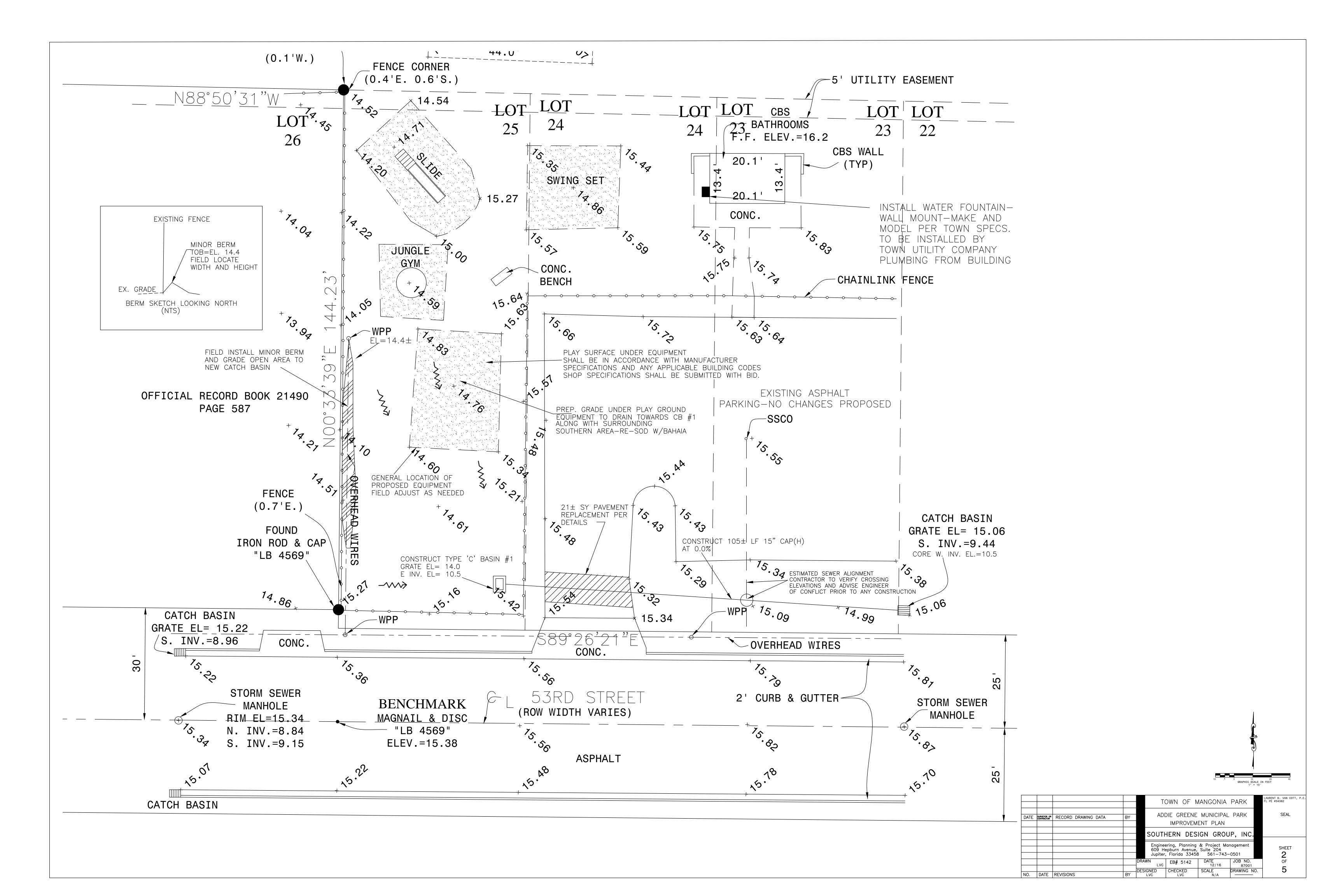
PREPARED FOR:
TOWN OF MANGONIA PARK
1755 EAST TIFFANY DRIVE
MANGONIA PARK, FL 33407
561-848-1235

**AUGUST 2018** 

PREPARED BY:
SOUTHERN DESIGN GROUP, INC.
609 NORTH HEPBURN AVENUE, SUITE 204
JUPITER, FLORIDA 33458
561-743-0501
EB#5142

#### **INDEX OF SHEETS**

SHEET NO.	DESCRIPTION			
1	COVER SHEET			
2	PLAN VIEW			
3-5	<b>DETAILS &amp; SPECIFICATIONS</b>			



## SURVEY DATA

LEGEND FOUND 5/8" IRON ROD SET 5/8" IRON ROD/CAP "LB 8130" WOOD POWER POLE CONC. POWER POLE CENTERLINE P.C. POINT OF CURVATURE P.R.C. POINT OF REVERSE CURVATURE COV. COVERED CONC. CONCRETE ELEV. ELEVATION F.F. FINISH FLOOR FP&L FLORIDA POWER & LIGHT WATER METER FIRE HYDRANT BFP BACK FLOW PREVENTOR C.B.S. CONCRETE BLOCK STRUCTURE SSCO SANITARY SEWER CLEAN-OUT ATT ATT TELEPHONE CTV CABLE TELEVISION CHORD BEARING CHORD DISTANCE RADIUS ARC LENGTH INTERIOR ANGLE POINT OF COMMENCEMENT POB POINT OF BEGINNING —

CHAINLINK FENCE -□--- METAL RAIL FENCE

SAND

#### SURVEYOR'S NOTES:

\_ EXISTING ELEVATION

→ ✓ PROPOSED DRAINAGE

1) UTILITIES SHOWN HEREON ARE VISIBLE ABOVE GROUND FEATURES, ADDITIONAL SUB-SURFACE UTILITIES OR STRUCTURES MAY EXIST

2) NO TITLE POLICY OR COMMITMENT AFFECTING TITLE OR BOUNDARY TO THE SUBJECT PROPERTY HAS BEEN PROVIDED. DEEDS AND EASEMENTS, RECORDED OR UNRECORDED, WHICH COULD AFFECT THIS BOUNDARY SURVEY

3) NO RESPONSIBILITY IS ASSUMED BY THIS SURVEY FOR THE CONSTRUCTION OF IMPROVEMENTS, FROM BUILDING TIES SHOWN HEREON.

4) ENVIRONMENTALLY SENSITIVE AREAS, IF ANY, WHICH MAY AFFECT THIS PARCEL HAVE NOT BEEN LOCATED ON THIS BOUNDARY SURVEY.

#### LEGAL DESCRIPTION

LOTS 25,24,AND 23 OF THE PLAT OF MANGONIA PARK, AS RECORDED IN PLAT BOOK 21, PAGE 1. OF PALM BEACH COUNTY, FLORIDA. TOGETHER WITH A PORTION OF THE UNPLATTED LAND TO THE NORTH.

TYPE OF SURVEY: SPECIFIC PURPOSE TOPOGRAPHIC SURVEY ELEVATION DATUM: NGVD29

FLOOD ZONE: N/A

BASIS OF BEARING: CL 53RD ST BEING S89°26'21"E

FEBRUARY 21, 2017 DATE OF FIELD SURVEY

Surveying and Mapping, In-112 N. U.S. Highway No. 1 Tequesta, FL, 33469 Phone: (561) 746-8424 BUSINESS LICENSE: LB# 8130 office@legacyPSM.com

### ENG. LEGEND (AS APPLICABLE)



SANITARY OR DRAINAGE MANHOLE

SINGLE/DOUBLE SAN. SEWER SERVICE-TYP SINGLE/DOUBLE WATER SERVICE

ECTBFV= ELEVATION CALCULATED-TO BE FIELD VERIFIED

DS#XX 'X' DRAIN. STRUCTURE W/ NO. AND GRATE TYPE FDC FIRE DEPARTMENT CONNECTION

FF = XX FINISH FLOOR ELEVATION (NGVD) FIRE HYDRANT ASSEMBLY

CS CONTROL STRUCTURE

FL FIRE LINE (DESIGN/PERMIT/ETC. BY OTHERS)

RWL RAINWATER LEADER 'D' TYPE D CURB

VG VALLEY GUTTER CURBING

HC HEADER CURB M DIRECTION OF DRAINAGE FLOW

HCR DETECTABLE HANDICAPPED ACCESS POINT

R-RAMP STND 6" RISE IN 6"

PAVER SYSTEMS WITH APPLICABLE HEADER CURBS

(FWP) FLUSH WITH PAVEMENT

RDWY ROADWAY XX.XX PROPOSED FINISH GRADE

(\* = FIELD ADJUST AS NEEDED) EXISTING ELEVATIONS

TOB TOP OF BANK SWCC SIDEWALK CURB COMBINATION TOC TOP OF CURB

EOP EDGE OF PAVEMENT BOW BACK OF WALK TOW TOP OF WALL OR WALK

B.O. BY OTHERS P.O.C. POINT OF CONNECTION

W.S. WATER SERVICE S.S. SEWER SERVICE TOP/T.O.P. TOP OF PIPE

BOP/B.O.P. BOTTOM OF PIPE FPL FPL TRANSFORMER-SUBJECT TO FPL FINAL DESIGN O.O±LF 8" DIP WATER MAIN LENGTH BET. VALVES

(0.0° INDICATES BENDS) PDX PEDESTRIAN CROSSING SIGN W/ ARROW

W11-2 & W16-7P WATER VALVE

SP#X SAMPLE POINT W/ NO. PIPE CROSSING DESIGNATION

SCOI SAN.SEW. CLEANOUT INVERTEL. CCOI CONDENSATE CLEANOUT BY OTHERS RWLCOI RAINWATER LEADER CLEANOUT INVERT EL. GWCOI GREASE WATER CLEANOUT INVERTEL.

FSA2 FIRE SIGN WITH 2 ARROWS FSA1

FIRE SIGN WITH 1 ARROW ELECTRIC CROSSING-ELEC. TO BE MIN. 12" OVER OR UNDER RWLs, SAN. SEW., DRAIN. AND WMs

PROPOSED LIGHT POLES (BY OTHERS)

PAVEMENT REPLACEMENT-REF. KEY ON PLAN SHEETS

STORM WATER/RAIN WATERLEADERS (RWLs)

DOWN SPOUT FROM GUTTER SYSTEM RWL POINT OF CONNECTION

ELEC. HAND HOLE-B.O.

ELEC. LINE-B.O.-FOR INFO ONLY

) PIPE CROSSING-REFER TO CALLOUT FOR GRADES

LENGTH (FT)/SLOPE (%) --- SANITARY SEWER MAINS AND SERVICES

W/LENGTH AND SLOPE LENGTH (FT)/SLOPE (%) GREASE WASTE LINES



EASEMENTS



ELEC. CROSSING-1 FT. MIN SEP



PROPOSED FPL TRANSFORMER LOCATION

# GENERAL NOTES AND SPECIFICATIONS

(AS APPLICABLE)

Clearing shall be limited to construction area and/or as directed by Owner or

Grubbing of all stumps, roots, buried logs or other objectionable materials shall be to a depth of 18 inches below natural ground.

All debris shall be removed from the site and legally disposed of. Owner and contractor shall coordinate to provide construction survey.

The Contractor shall be responsible for protecting all existing buildings, structures, and utilities that are under ground, above ground, or on the surface against construction operations that may be hazardous to said facilities and shall hold and save the Owner, his agents and/or consultants harmless

The Contractor shall be responsible for all required tests and shall submit reports for review and approval. The tests shall be performed by an independent testing laboratory. Payment for testing per contract with owner. Any retest for failure will be

All work shall be performed in a workmanlike manner and shall conform with all applicable Local, Regional, State and Federal regulations and/or codes. The Contractor or subcontractors shall obtain all required permits prior to proceeding with construction. All construction shall be in accordance with the Federal, Štate, County and, if applicable, local Municipal Regulations. The latest Edition of Florida DOT Specifications, Details and Addenda shall govern as applicable to the type of construction.

Prior to construction the Contractor shall visually examine the site of construction to determine the amount of clearing and existing facilities to be protected, replaced, removed and/or relocated which may be required to commence work. All Contractor's shall protect existing improvements that are contiguous to the construction area.

The Contractor shall coordinate project construction and give adequate notification to all affected utility owners (ie: water and sewer utility, FP&L, So. Bell, Cable, etc.) with regard to the need for removal, relocation or alteration of their existing facilities. Utility Companies shall be notified 48 hours prior to commencing construction. Call Sunshine. – Utility Notification Center – for location before excavation (1-800-432-4770).

The Contractor shall also coordinate and notify applicable utility agency personnel and Engineer for required inspections (min. 48 Hr. notice), and shall supply any and all equipment necessary to properly test or inspect the work.

Guaranty-All material and equipment to be furnished or installed by the Contractor(s) under the construction contract for this project shall be guaranteed against defective materials, and workmanship. Upon receipt of notice from the Owner of failure of any part of the installation guaranteed equipment or materials, during the guaranty period, the affected part, parts or materials shall be replaced promptly with the new parts or materials by the Contractor, at no expense to the Owner. In the event the Contractor fails to make the necessary replacement or repairs within seven days after notification by the Owner, the Ówner may accomplish the work at the expense of the Contractor.

All work shall be accomplished in a safe workmanlike manner. The Contractor shall comply with all applicable laws and regulations of any public body having jurisdiction for the safety of persons or property or to protect them from damage, injury or loss; and shall erect and maintain all necessary safeguards for such safety and protection. The responsibility for project safety rests solely and specifically with the Contractor. Southern Design Group, Inc., the Owner, the regulatory agencies and their employees are specifically indemnified and held harmless from any actions of the Contractor relating to the safety procedures implemented during construction and for any claims brought by any persons regarding safety, personal injury or property damage.

Contractor shall coordinate with Owner and all other contractors to ensure proper construction sequence of project. The sequence of construction shall be such that all underground utilities shall be installed prior to pavement construction and other above ground improvements.

Elevations – All elevations refer to 1929 N.G.V.D.(NAVD=NGVD-1.52')

Record Drawings—The Contractor shall be responsible to obtain and submit to Engineer a complete detailed set of Record Drawing data prepared by a Registered Florida Surveyor. The record drawings shall adhere to any and all specific criteria of the water and sewer utility and any specifics required by the Engineer.

Underground Contractor shall submit all record data to the Engineer for his review and approval prior to pavement and/or curb installation. Any necessary adjustment at this time will be the responsibility of the underground Contractor.

Final adjustment of manhole rims, valve boxes, etc. that are within any paved area, shall be adjusted at the time the base material is in place, and shall be the responsibility of the underground Contractor.

Paving Contractor shall protect all existing structures. Any damage to these structures by the paving Contractor shall be the paving Contractor's responsibility to coordinate repair.

MATERIALS AND CONSTRUCTION: All concrete shall develop a 28 day minimum compressive strength of 3000 psi unless otherwise noted. Class I concrete shall conform with the Florida DOT Specifications, Latest Edition.

All steel shall be domestic grade 60 (Fy=60 Ksi) and conform to ASTM A-615 specifications.

All masonry units and grout shall have a minimum compressive strength of 1800 psi and shall meet all NCMA specifications and recommendations.

All steel splices, construction and placement, and all steel ties shall conform to NCMA and ACI practices and

If muck is encountered in the road right-of-way or any other paved or building areas, it shall be completely removed and shall be backfilled with clean, granular material in accordance with the recommendations of a Registered Florida Soils Engineer.

If hardpan is encountered in road side swales or any area designated for drainage, it shall be removed to a width of 2 feet at the swale invert, or 5' outside of drainage area, and shall be completely replaced with granular material.

Contractor shall be responsible to perform all excavation in accordance with the Department of Labor - Occupational Safety and Health Standards Excavation: Final Rule (29 CFR Part 1926) form Federal Regulations Tuesday October 31, 1991 and OSHA 2226 (Rev. 1990) Excavation and Trenching Standards.

SUBGRADE—Subgrade shall be compacted to meet the density requirements as determined by the AASHTO T—180 specifications. Subgrade shall extend a minimum of 12 inches beyond the proposed edge of pavement and the entire depth shall be compacted to 98% of maximum density. All stumps, roots or other deleterious matter encountered in the preparation of the subgrade shall be removed to a depth of 3 feet below the finished road grade. All such material/matter shall be removed within 8 feet of the edge of pavement. The subgrade shall be compacted and stabilized as shown in the details with bearing and density determinations to be made by the applicable latest Florida DOT Specifications.

BASE — Base material shall be compacted to not less than 98% maximum density as determined by AASHTO T—180 Specifications and as called for in the Florida DOT Specifications, latest Edition—Section 250. Base greater than 6" shall be constructed in two even lifts or 4" intervals and 6" beyond the edge of pavement.

PRIME COAT - Bituminous prime coat shall conform with the requirements of the Florida DOT Specifications, Latest Edition—Section 300, and shall be

applied at a rate of 0.25 gallons per square yard unless otherwise noted. TACK COAT — Bituminous tack coat shall conform with the requirements of the Florida DOT Specifications, Latest Edition—Section 330 and shall be applied at the minimum rate of 0.08 gallons per square yard unless otherwise noted.

SURFACE COURSE - Asphaltic concrete surface course shall conform with the requirements of the Florida DOT Specifications, Latest Edition Section 331. The minimum compacted thickness is as noted in plans.

Inlets shall be the type designated on the plans and shall be constructed in accordance with Florida DOT Specifications, Latest Edition—Section 425, unless otherwise noted in the plans.

Corrugated Aluminum Pipe Helical (CAP) shall conform with the Florida DOT Specifications, Latest Edition—Section 945. Pipe may be helical and is designated within the plans as CAPH. Pipe sizes are as shown in the plans. All joints in storm sewer pipe shall be made with either 1/2 inch neoprene or 1/4 inch strip sealant gasket material. All bands shall be 12 inches wide. The pipe shall conform with Florida DOT Specifications, Latest Edition. Corrugated Aluminum pipe shall not be constructed under paved areas, unless otherwise noted in the plans.

Reinforced Concrete Pipe (RCP) shall conform with the requirements of Table III of ASTM  $C\!-\!76$  and with the Florida DOT Specifications, Latest Edition-Section 941.

All pipe joints shall be wrapped with filter fabric jacket in accordance with

All handicap ramps shall be constructed in accordance with latest FDOT Roadway and Traffic Design Standards and current State ADA requirements. Requirements for pipe backfill shall be as defined by Florida DOT Specifications, Latest Edition Section 125-8. Pipeline backfill shall be placed and tested in

All street pavement markings shall be in accordance with MUTCD. All pavement markings, excluding parking stall striping (paint allowed), shall be thermoplastic meeting the requirements of the FDOT Road and Bridge specifications, latest edition. All pavement markings on paver brick areas shall be installed using the appropriate colored bricks to provide the markings as required and as

6 inch lifts and compacted to 100% of the standard proctor

shown on the plan sheets of the construction drawings. The Contractor shall be responsible for all traffic control in accordance with all applicable Federal, State, Local and Municipal codes and regulations. Traffic control shall also be in accordance with Florida DOT Index 600.

Within Palm Beach County Jurisdiction, pavement markings, geometrics, and signage shall be in accordance with the MUTCD for Streets and Highways and Palm Beach County Typical No. T-P-13

Utility conduits/irrigation conduits shall be placed per Owner's directions and clearly marked after construction. Contractor shall obtain record drawing data on áll crossing.

PRE-CONSTRUCTION CONFERENCE

(AASHTO T-99 Specifications).

A preconstruction conference with the Owner, Engineer, Contractors and any involved parties will be scheduled by the prime Contractor prior to the initiation of construction.

MINIMUM CONSTRUCTION CHECKPOINTS

-Lamping of all sanitary mains

-Prior to water main flushina

The Contractor shall notify the Engineer or his representative for an inspection of the following check points including but not limited to:

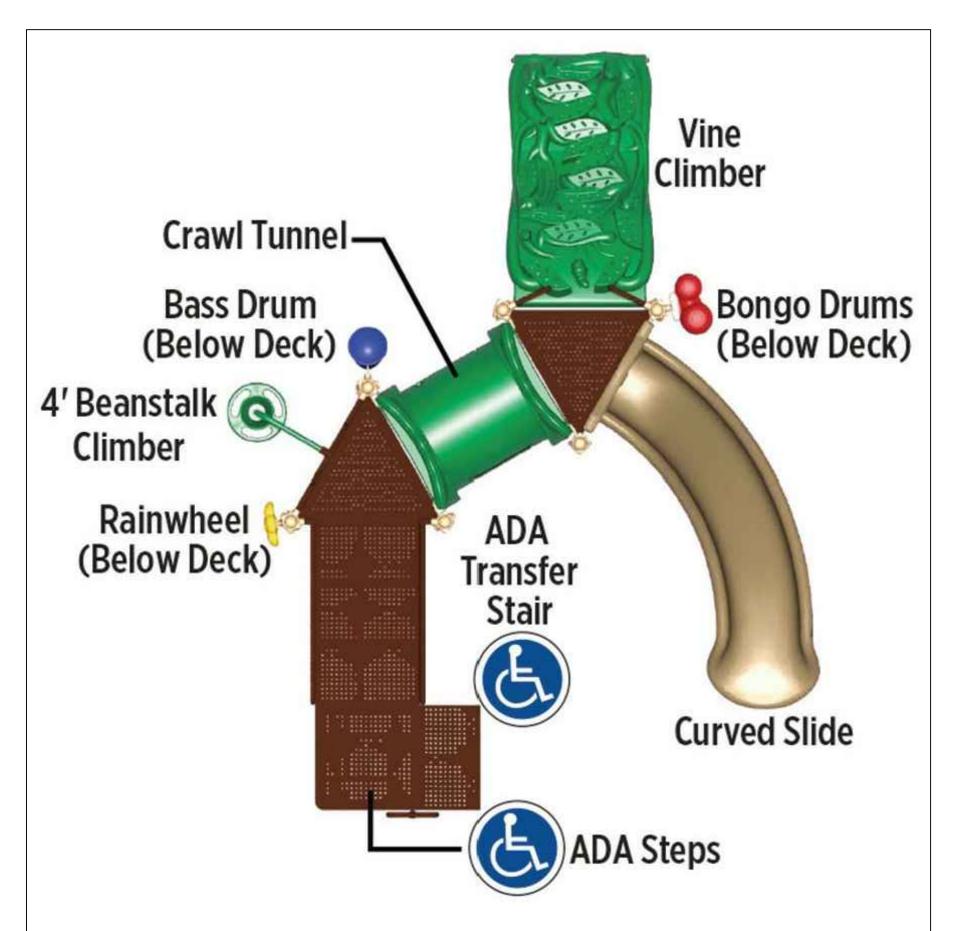
Company or regulatory agencies that are in addition to

and more restrictive than above shall be complied

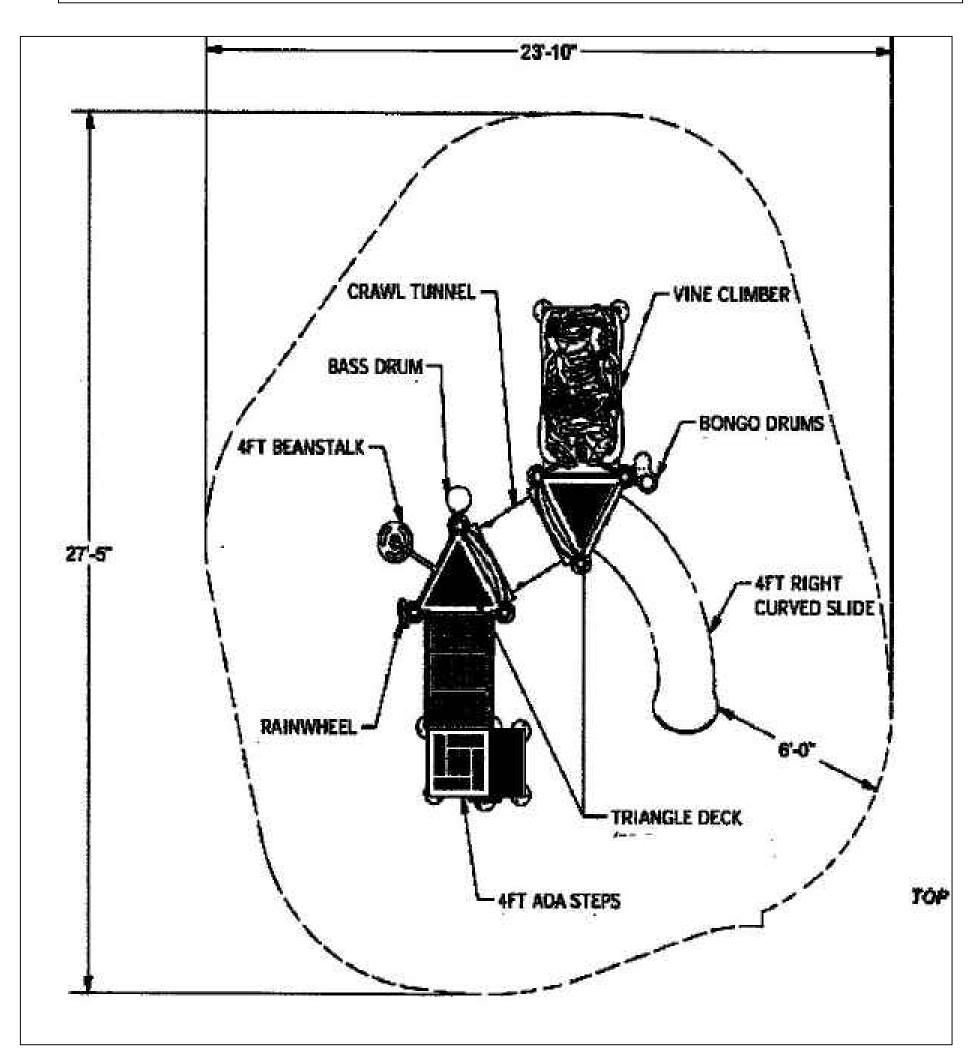
-Prior to any major deviations from the approved plans. -Prior to Backfilling any hydraulic conduits or structures. -Upon completion of subgrade compaction -Upon completion of base construction -Concrete pours for poured in place structures

-Pressure testing of water mains -Prior to any connection to existing facilities Note: Any tests or observations required by the Utility

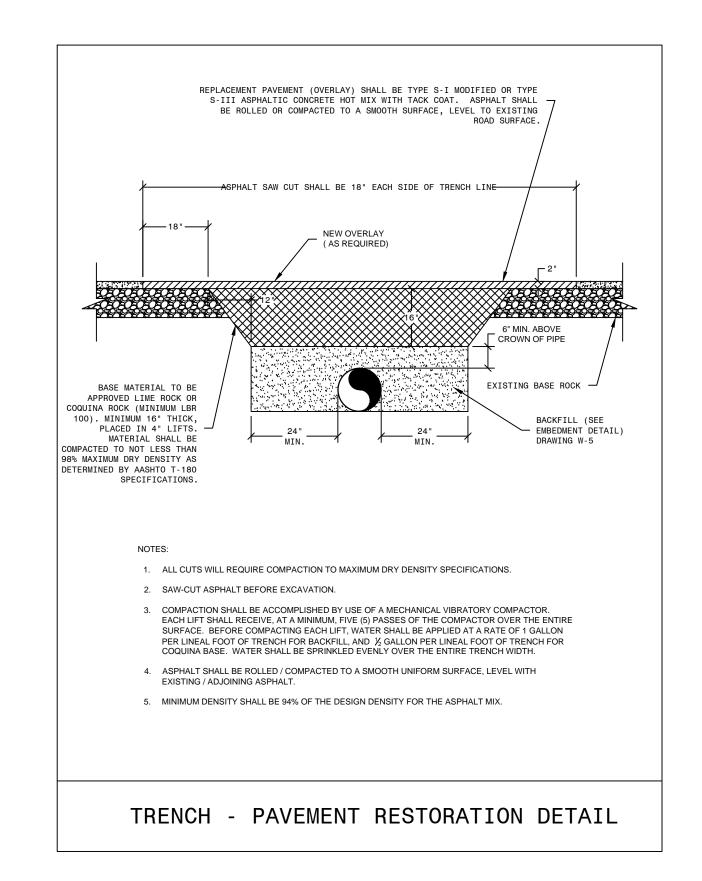
				Т(	OWN OF M	MANGONIA	PARK	LAURENT B. VAN COTT, P.E FL PE #34382
DATE	SURVEYOR OR CONTRACTOR	RECORD DRAWING DATA	BY	ADI	DIE GREENE IMPROVEM	MUNICIPAL IENT PLAN	PARK	SEAL
				DET	TAILS AND S	SPECIFICATIO	NS	
				SOUTH	HERN DES	IGN GROU	P, INC.	
				Engine 609 H Jupiter	ering, Planning epburn Avenue, , Florida 33458	SHEET		
				DRAWN LVC	EB# 5142	DATE 12/16	JOB NO. 87001	OF
NO.	DATE	REVISIONS	BY	DESIGNED LVC	CHECKED LVC	SCALE N/A	DRAWING NO.	5



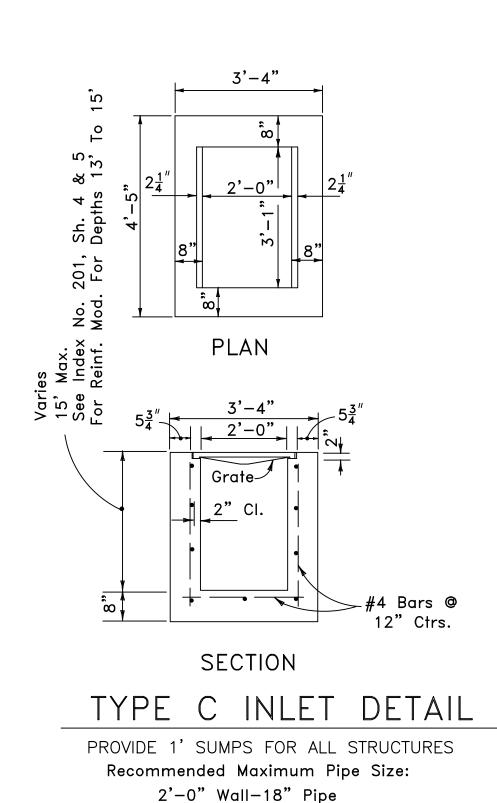




- THESE DETAILS ARE GENERAL IN NATURE AND ARE SHOWN TO DETAIL THE ELEMENTS THE TOWN REQUIRES. CONTRACTOR CAN PROPOSE ALTERNATE BY DETAILING THE PROPOSED SYSTEMS EQUIVALENCY TO THE ELEMENTS AND SIZE SHOWN.
- SHOP DRAWINGS OF PLAY EQUIPMENT SYSTEM AND MATERIALS SHALL BE SUBMITTED WITH BID DOCUMENTS.



				- T(	OWN OF	MANGONIA	PARK	LAURENT B. VAN COTT, P.E. FL PE #34382		
DATE	SURVEYOR OR CONTRACTOR	RECORD DRAWING DATA	BY	ADI	DIE GREEN IMPROVE	NE MUNICIPAL EMENT PLAN	. PARK	SEAL		
				DET	TAILS AND	SPECIFICATIO	NS			
				SOUTH	HERN DE	SIGN GROU	P, INC.			
				Enginee 609 He Jupiter	Engineering, Planning & Project Management 609 Hepburn Avenue, Suite 204 Jupiter, Florida 33458 561-743-0501					
				DRAWN LVC	EB# 5142	DATE 12/16	JOB NO. 87001	OF <b>/</b> I		
NO.	DATE	REVISIONS	BY	DESIGNED LVC	CHECKED LVC	SCALE N/A	DRAWING NO.	<del>'1</del>		



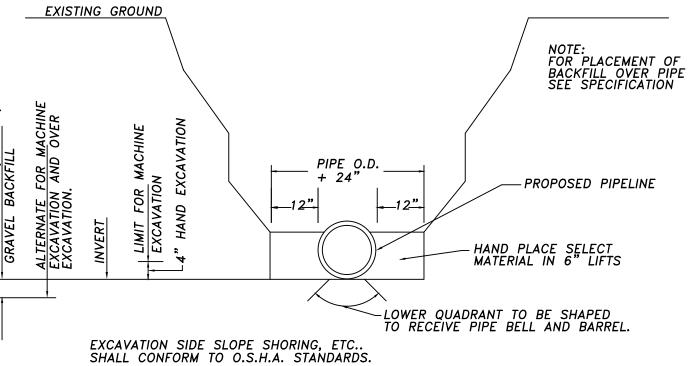
3'-1" Wall-24" Pipe

# INLET GRATE 2-1/2" X 2-1/2" X 1/4" ANGLE CASTING W/ 3/16" X 1" X 6" ANCHORS WELDED TO CASTING AT 6" O.C. INLET COLLAR 3000 PSI CONC. INSTALL CONC. MORTAR AND BRICK AS REQUIRED TO FINAL GRADE (MAX. 2 COURSES OF BRICK). REFER TO CATCH BASIN DETAILS FOR STRUCTURE REQUIREMENTS.

# CATCH BASIN (INLET) COLLAR DETAIL

NOTE: PROVIDE 4 SIDED BEARING FOR INLET GRATE FOR STRUCTURES WITHIN PAVEMENT. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW BY ENGINEER. FOR TYPE C INLET, USE USF 6212 INLET GRATE.





## STANDARD TRENCHING PROCEDURE

