# CIVIL PLANS BID SET

# PSL MUNICIPAL COMPLEX PARKING EXPANSION



CONSULTANT:

NO. REVISION DATE

CITY OF PORT ST. LUCIE, FLORIDA

#### **LEGAL DESCRIPTION**

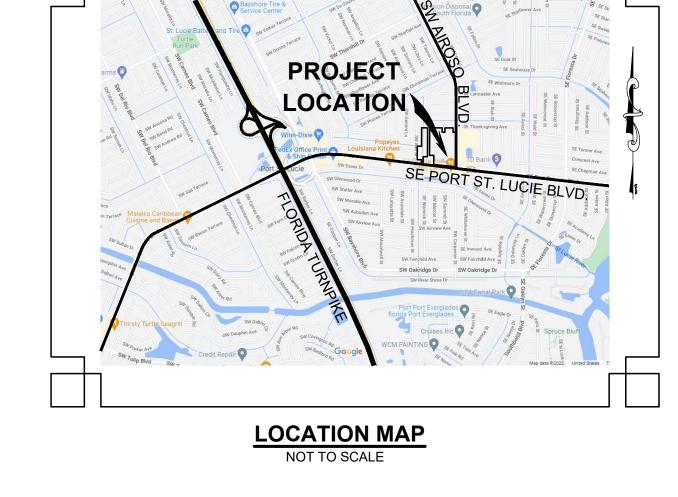
TRACT F, PORT ST. LUCIE SECTION EIGHTEEN, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 13, PAGE(S) 17, OF THE PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA

LOTS 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 14, 18, 19, AND 20 BLOCK 688, PORT ST. LUCIE SECTION EIGHTEEN,

LOTS 2, 3, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, AND 18 BLOCK 689, PORT ST. LUCIE SECTION EIGHTEEN ACCORDING TO THE PLAT THEREOF, RECORDED IN PLAT BOOK 13, PAGE 17, PUBLIC RECORDS OF ST. LUCIE

DE SOTA

HENDRY



121 SW PORT ST. LUCIE BLVD., PORT ST. LUCIE 34984

# SHEET INDEX

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# **REGULATORY AGENCIES:**

Electric (Project # 9116442) Florida Power & Light 6001 Vg Blvd. West Palm Beach, FL 33407 Contact: Nate Holzmacher Phone: (772) 337-7013 Email: Nate.Holzmacher@fpl.com

City of Port St. Lucie Public Works Department City Hall Municipal Complex-Building B 121 SW Port St. Lucie Blvd. Port St. Lucie, FL 34984 Contact: Chris Powell **Project Coordinator Regulatory Division** Phone: (772) 871-5068 Email: cpowell@cityofpsl.com

Cable & Telephone AT&T Southeast 10486 SW Village Center Dr. Port St. Lucie, FL 34987 Contact: James P. Virga Phone: (772) 692-2774 Email: jv3965@att.com

City of Port St. Lucie Planning & Zoning Department City Hall Municipal Complex-Building B 121 SW Port St. Lucie Blvd. Port St. Lucie, FL 34984 Contact: Holly Price, AICP Planner III Phone: (772) 871-5019 Email: hprice@cityofpsl.com

Water Management South Florida Water Management District 3800 NW 16th Blvd., Suite A Okeechobee, FL 34972 Contact: Glen Gareau Phone: (561) 686-8800 ext. 3006 Email: ggareau@sfwmd.gov

City of Port St. Lucie Utilities Department (PSLUSD) City Hall Municipal Complex-Building B 121 SW Port St. Lucie Blvd. Port St. Lucie, FL 34984 Contact: Lisa Alexander Phone: (772) 871-7313 **Project Coordinator** Email: lalexander@cityofpsl.com

## **DEVELOPMENT TEAM:**

Owner / Developer City of Port St. Lucie

121 SW Port St. Lucie Blvd. Port St. Lucie, FL 34984

Engineer

Bowman Consulting Group 301 SE Ocean Drive, Suite 301 Stuart, FL 34994 Phone: (772) 283-1413

Architect

**CPZ Architects** 4316 West Broward Boulevard West Palm Beach, Florida 33406 Phone: (954) 792-8525

DRAWING TITLE:

SL

P

**ARCHITECTS** 

DRAWN	RHO
CHECKED	OR
DATE	06.28.24
SCALE	AS NOTED
PRJCT# P2	22-339-A2
SHEET:	

GOVERNING STANDARD PLANS AND SPECIFICATIONS: FDOT STANDARD PLANS - FY 2023-2024 CITY OF PORT ST. LUCIE ENGINEERING STANDARDS FOR LAND DEVELOPMENT

LOCATION OF PROJECT

Bowman

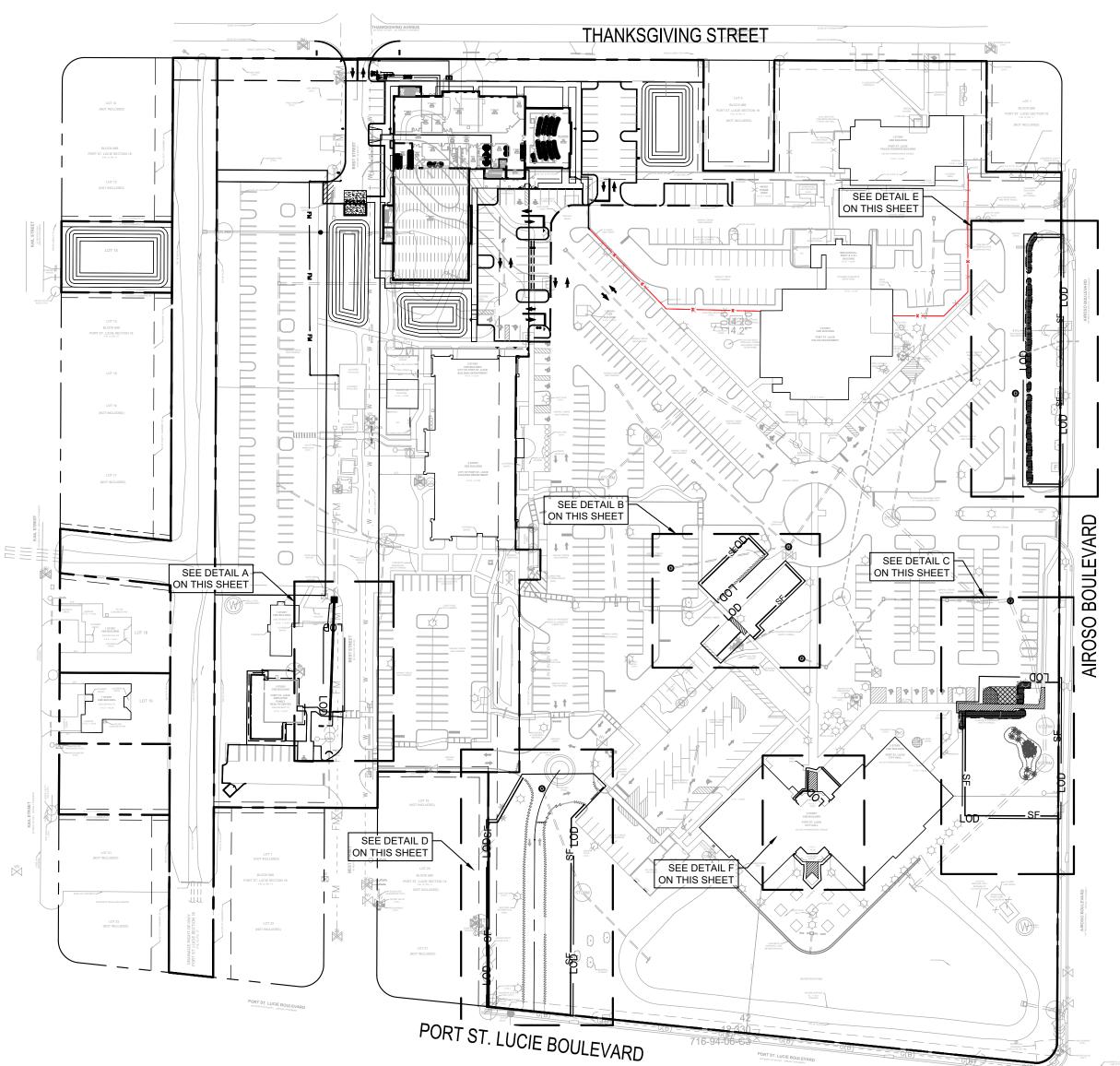
Surveyor

**Bowman Consulting** 

Phone: (772) 283-1413

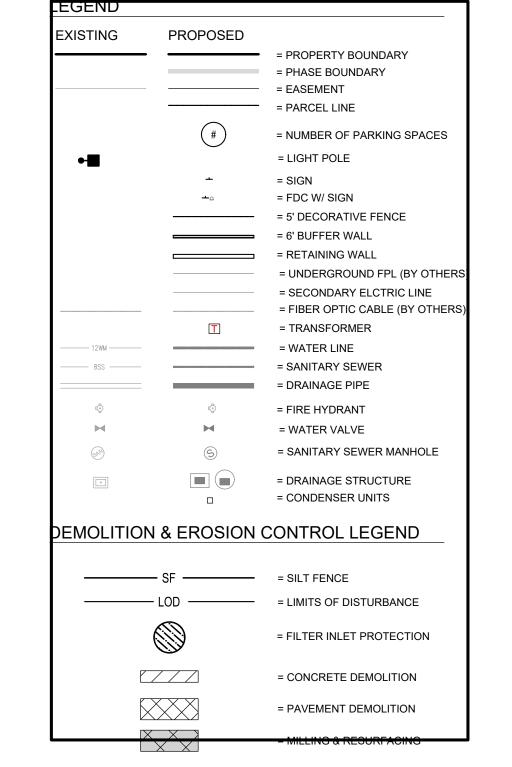
Stuart, FL 34997

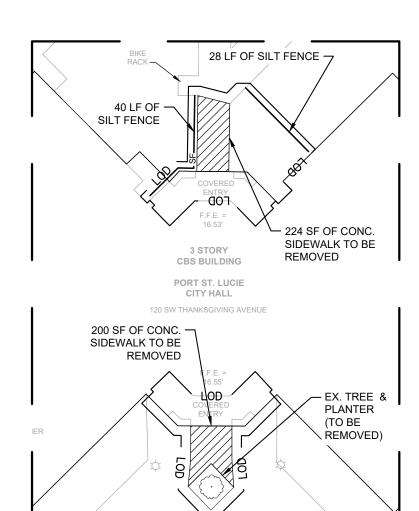
301 SE Ocean Blvd. Suite 301



OVERALL SITE PLAN

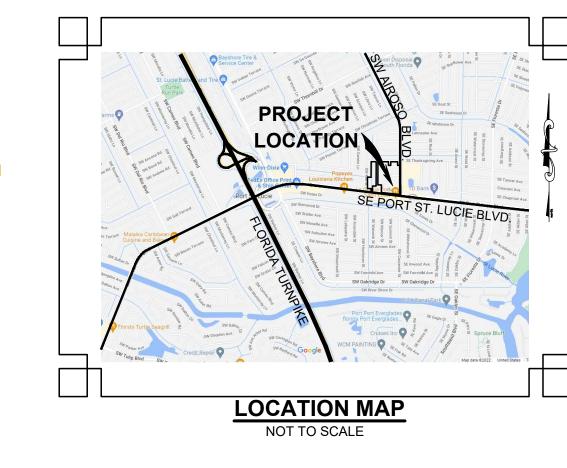
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DETAIL F

SCALE: 1"=30'



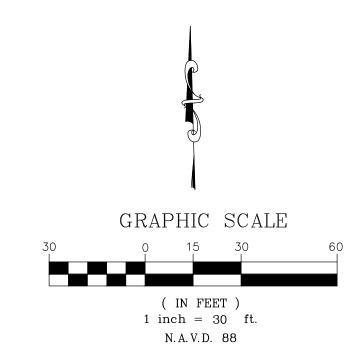
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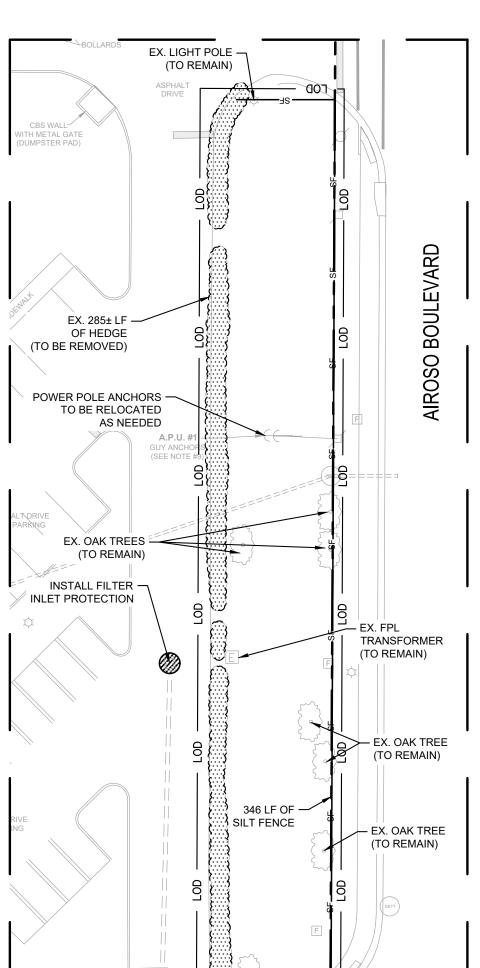
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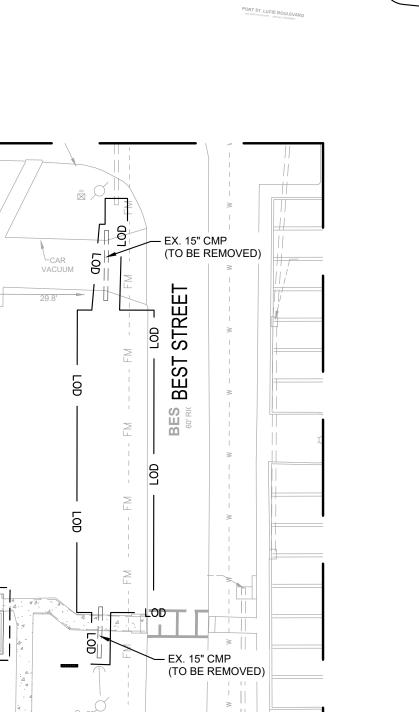
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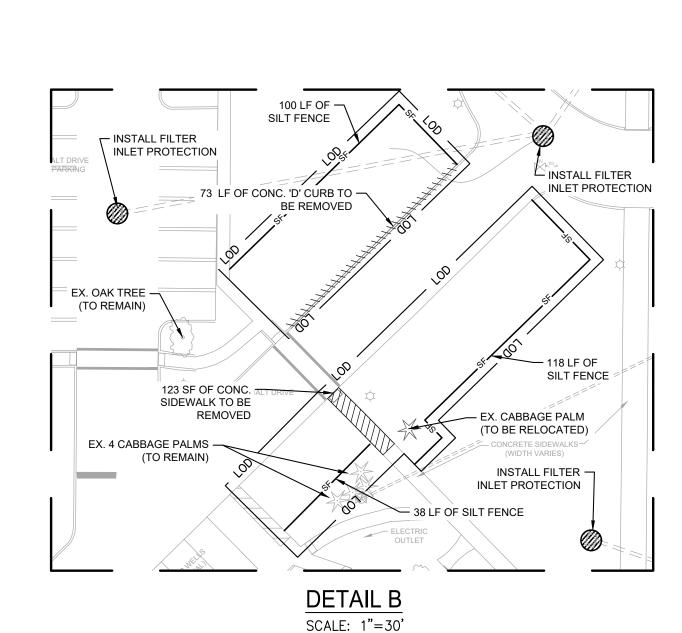


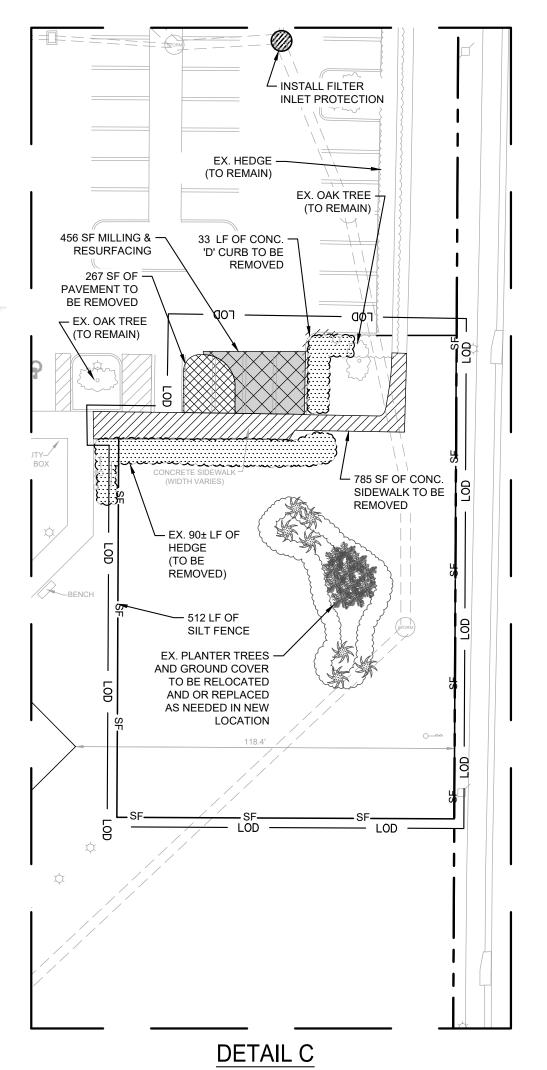


SILT FENCE

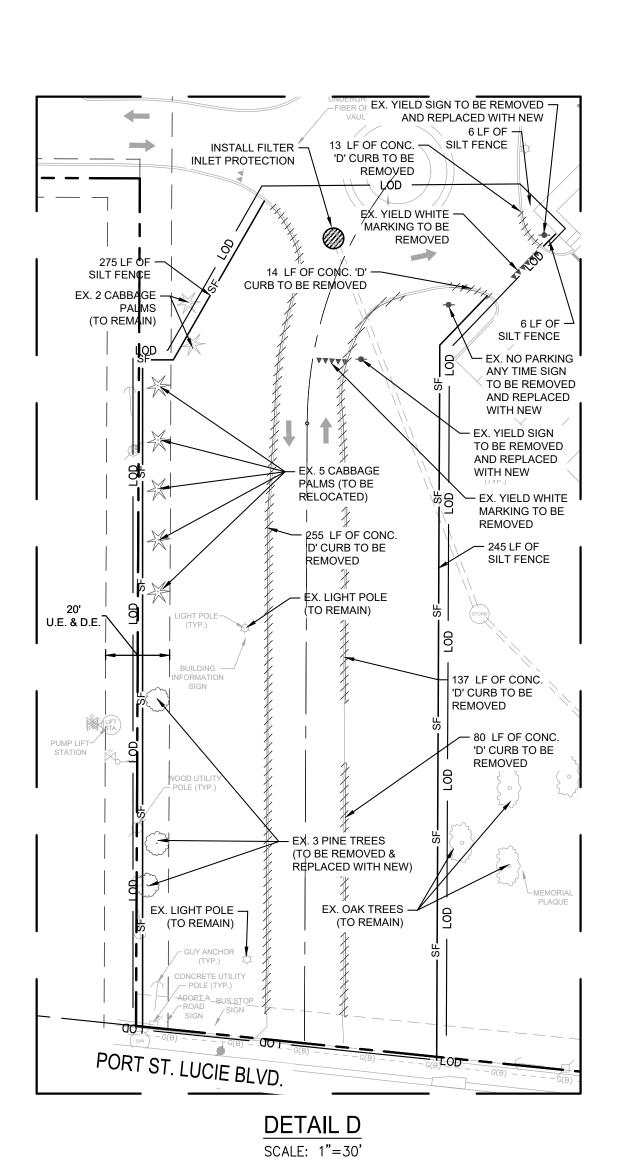
DETAIL A

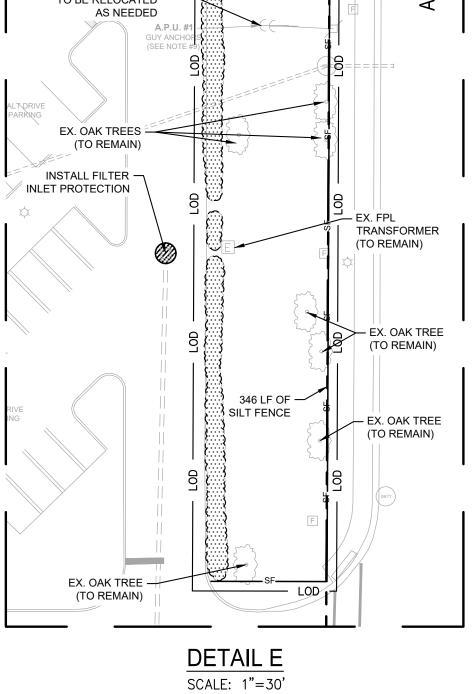
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SCALE: 1"=30'





FLORIDA LICENSE NO. 65661

PROFESSIONAL SURVEYORS AND MAPPERS, CERTIFICATE NO. LB. 8030

BOARD OF PROFESSIONAL ENGINEERS, CERTIFICATE OF AUTHORIZATION NO. 30462

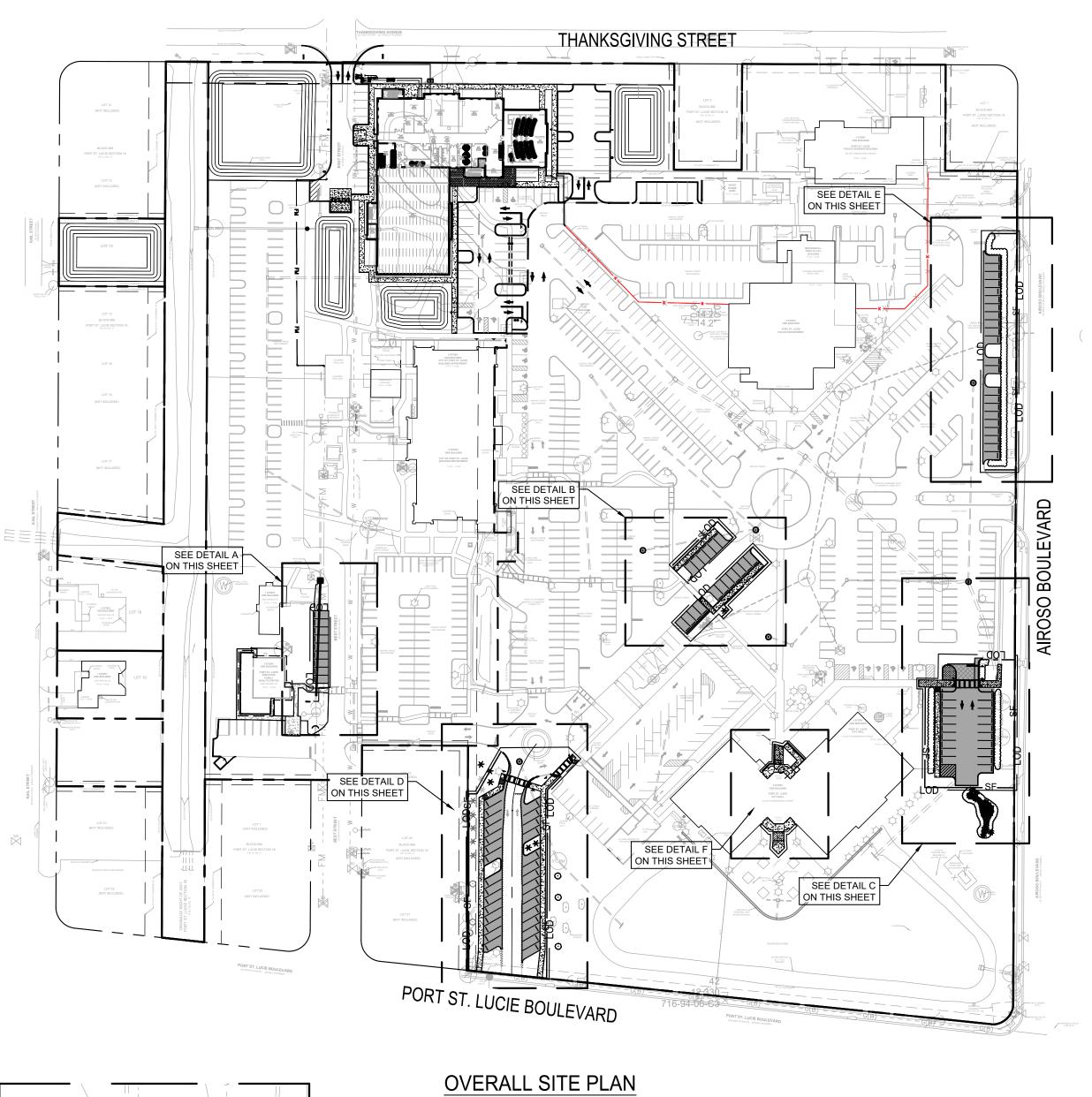
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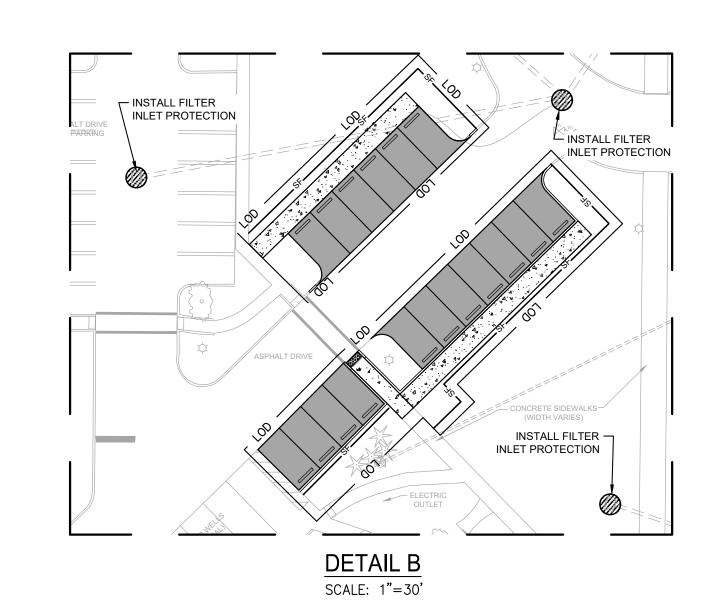
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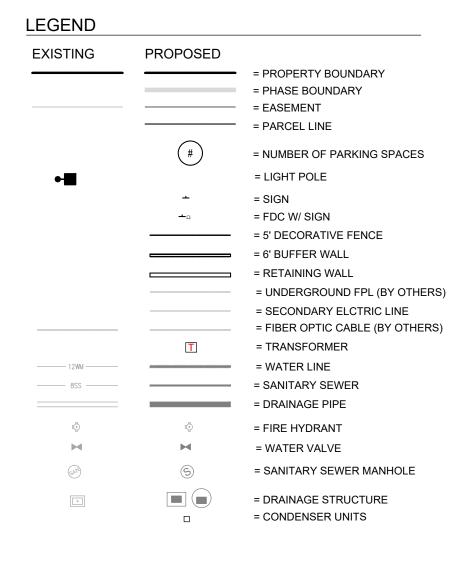
Plan Phase I

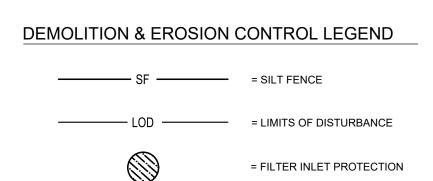
**Erosion & Sediment Control** 











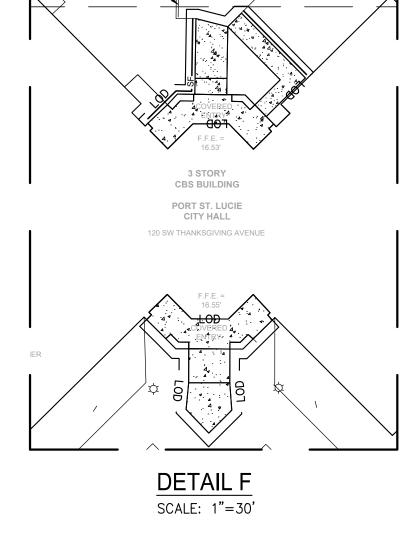
- INSTALL FILTER

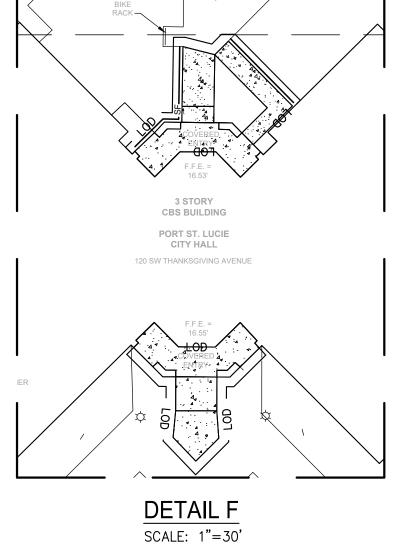
INLET PROTECTION

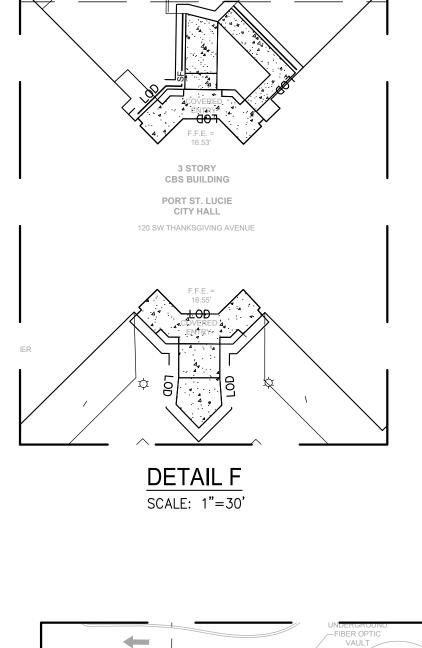
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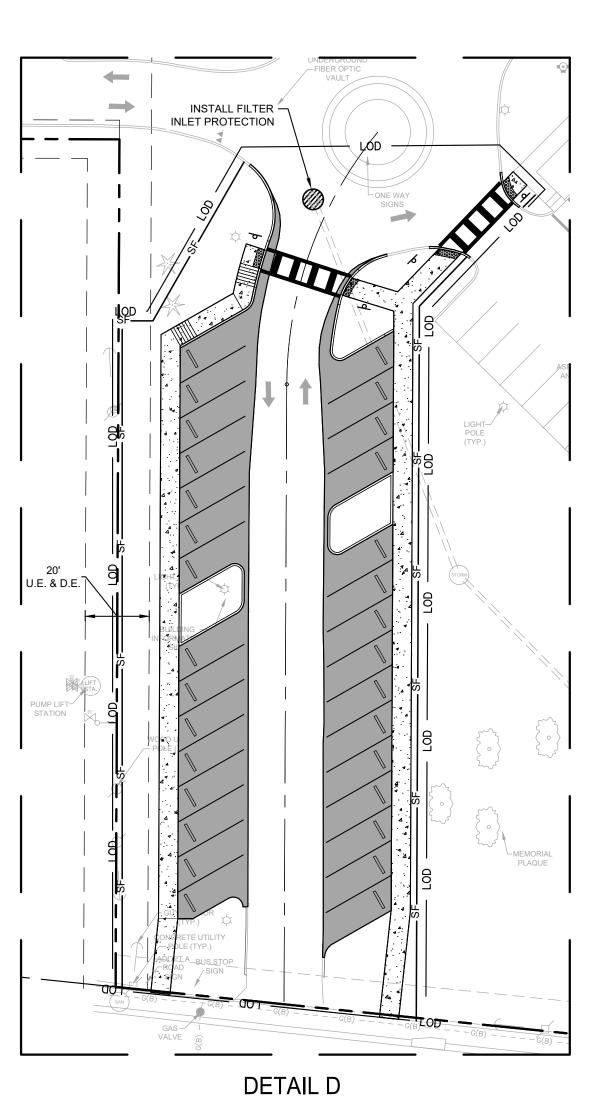
DETAIL C

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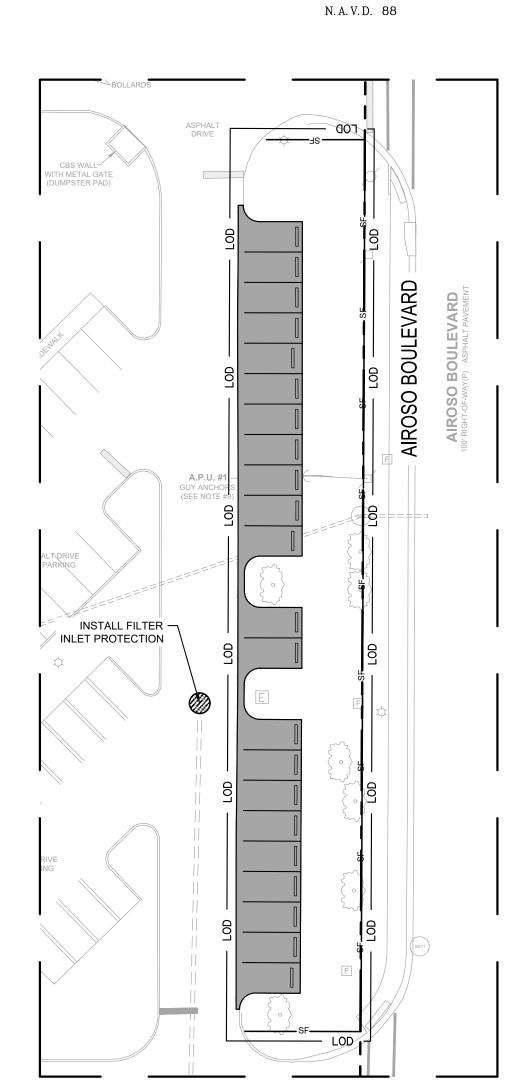








SCALE: 1"=30'



PROJECT

**LOCATION MAP** 

GRAPHIC SCALE

( IN FEET ) 1 inch = 30 ft. ST. LUÇIE BLVD

DETAIL D
SCALE: 1"=30'

C-3

DRAWING TITLE:

Plan Phase II

DRAWN RHO CHECKED OR

SCALE AS NOTED PRJCT# P22-339-A2

**Erosion & Sediment Control** 

06.28.24

NO. REVISION DATE

PERMIT SET 06/28/2024

CONSULTANT:

DETAIL A

SCALE: 1"=30'

DATE: 06-28-24

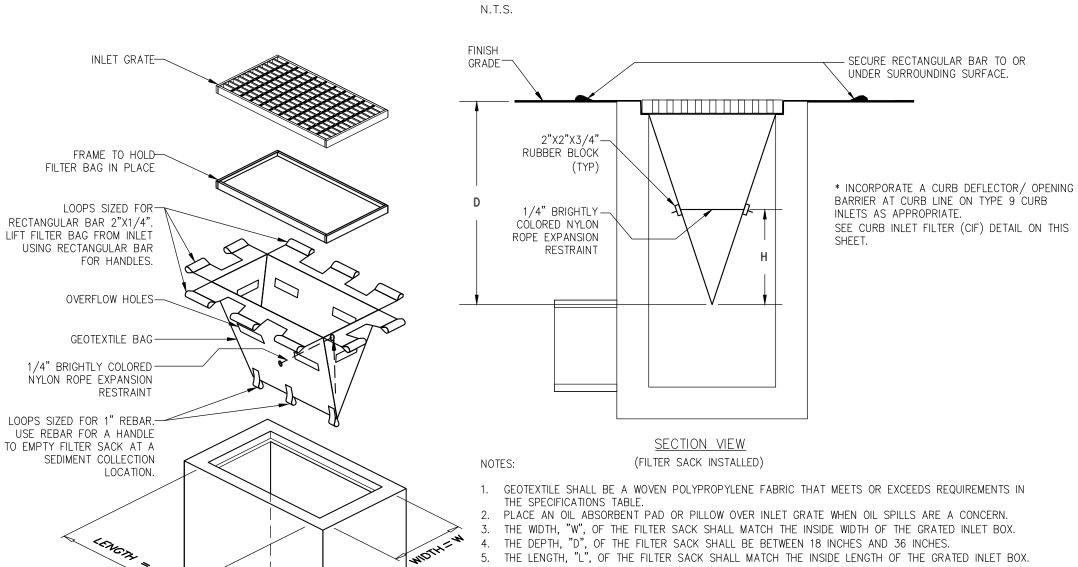
PROFESSIONAL SURVEYORS AND MAPPERS, CERTIFICATE NO. LB. 8030 BOARD OF PROFESSIONAL ENGINEERS, CERTIFICATE OF AUTHORIZATION NO. 30462 ATTACH THE GEOTEXTILE TO EACH POST (EVENLY SPACED AT NOT MORE THAN 30").

WHEN TWO SECTIONS OF SILT FENCE FABRIC ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED ACROSS TWO POSTS. MAINTENANCE SHALL BE PERFORMED AS NOTED IN THE MAINTENANCE NOTES AND TECHNICAL SPECIFICATIONS. DEPTH OF ACCUMULATED SEDIMENTS MAY NOT EXCEED ONE—THIRD THE HEIGHT OF THE FABRIC.

#### MAINTENANCE NOTES:

- 1. INLET PROTECTION DEVICES MUST BE INSPECTED FOR SEDIMENT ACCUMULATION WITHIN THE CATCH BASIN (IF USING INSERT-TYPE DEVICE) OR UPGRADIENT OF
- 2. REMOVAL OF SEDIMENT ACCUMULATED IN OR ADJACENT TO A STORM DRAIN INLET MUST BEGIN IMMEDIATELY UPON DISCOVERY, WITH COMPLETION OF THE
- ACTIVITY OCCURRING NO LATER THAN THE END OF THE FOLLOWING BUSINESS DAY. 3. INLET PROTECTION DEVICES SHALL BE INSPECTED FOR UNINTENDED BYPASS OR IMPROPER FLOW-RATES THAT MAY CAUSE DOWNSTREAM FLOODING 4. CONTACT THE ENGINEER FOR ALTERNATE INLET PROTECTION IF THE DESIGNED PROTECTION MAY IMPACT DOWNSTREAM BMPS, ADJACENT SLOPES, ETC., DUE TO
- PONDING ISSUES. ENSURE THAT NO UNDERMINING OF INLET PROTECTION DEVICES HAS OCCURRED. 5. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING OR DETERIORATION.

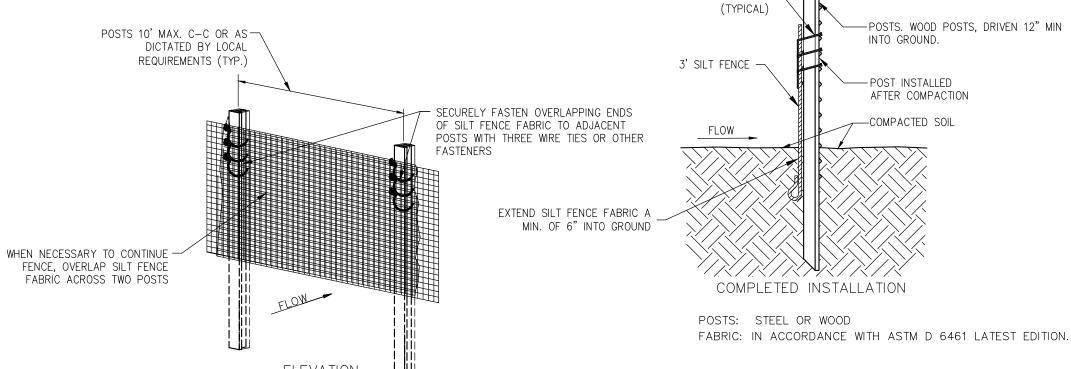
## SILT FENCE INLET PROTECTION DETAIL AT UNPAVED AREAS



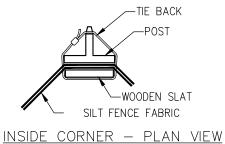
"Ichen, "Ich I'm	THE SPECIFICATIONS TABLE.  2. PLACE AN OIL ABSORBENT PAD OR PILLOW OVER INLET GRATE WHEN OIL SPILLS ARE A CONCERN.  3. THE WIDTH, "W", OF THE FILTER SACK SHALL MATCH THE INSIDE WIDTH OF THE GRATED INLET BOX.  4. THE DEPTH, "D", OF THE FILTER SACK SHALL BE BETWEEN 18 INCHES AND 36 INCHES.  5. THE LENGTH, "L", OF THE FILTER SACK SHALL MATCH THE INSIDE LENGTH OF THE GRATED INLET BOX.
ISOMETRIC VIEW	<ol> <li>MAINTENANCE NOTES:</li> <li>INLET PROTECTION DEVICES MUST BE INSPECTED FOR SEDIMENT ACCUMULATION WITHIN THE CATCH BASIN. REMOVE TRAPPED SEDIMENT WHEN BRIGHTLY COLORED EXPANSION RESTRAINT CAN NO LONGER BE SEEN.</li> <li>REMOVAL OF SEDIMENT ACCUMULATED IN OR ADJACENT TO A STORM DRAIN INLET MUST BEGIN IMMEDIATELY UPON DISCOVERY, WITH COMPLETION OF THE ACTIVITY OCCURRING NO LATER THAN THE END OF THE FOLLOWING BUSINESS DAY.</li> <li>INLET PROTECTION DEVICES SHALL BE INSPECTED FOR UNINTENDED BYPASS OR IMPROPER FLOW—RATES THAT MAY CAUSE DOWNSTREAM FLOODING.</li> <li>CONTACT THE ENGINEER FOR ALTERNATE INLET PROTECTION IF THE DESIGNED PROTECTION MAY IMPACT DOWNSTREAM BMPS, ADJACENT SLOPES, ETC., DUE TO PONDING ISSUES. ENSURE THAT NO</li> </ol>
LOW TO MODERATE FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE	UNDERMINING OF INLET PROTECTION DEVICES HAS OCCURRED.  5. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING OR DETERIORATION.  MODERATE TO HIGH FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE

LOW TO MODERATE FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE			MODERATE TO HIGH FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS	PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH GRAB TENSILE ELONGATION PUNCTURE MULLEN BURST TRAPEZOID TEAR UV RESISTANCE APPARENT OPENING SIZE FLOW RATE PERMITTIVITY	ASTM D-4632 ASTM D-4632 ASTM D-4833 ASTM D-3786 ASTM D-4533 ASTM D-4535 ASTM D-4751 ASTM D-4491 ASTM D-4491	300 LBS 20 % 120 LBS 800 PSI 120 LBS 80 % 40 US SIEVE 40 GAL/MIN/SQ FT 0.55 SEC -1	GRAB TENSILE STRENGTH GRAB TENSILE ELONGATION PUNCTURE MULLEN BURST TRAPEZOID TEAR UV RESISTANCE APPARENT OPENING SIZE FLOW RATE PERMITTIVITY	ASTM D-4632 ASTM D-4632 ASTM D-4833 ASTM D-3786 ASTM D-4533 ASTM D-4535 ASTM D-4751 ASTM D-4491 ASTM D-4491	265 LBS 20 % 135 LBS 420 PSI 45 LBS 90 % 20 US SIEVE 200 GAL/MIN/SQ FT 1.5 SEC -1

INLET PROTECTION FILTER SACK AT PAVED AREAS



TIE BACKS



#### TABLE 1 Temporary Silt Fence Material Property Requirements

	Test Method	Units		Unsupported⁴ Silt Fence	Type of Value	TOP 8" OF THE FABRIC. ATTACH EACH TIE DIAGONALLY 45 DEGREES THROUGH
	ASTM D 4632	N (lbs)		90 lbs		THE FABRIC, WITH EACH PUNCTURE AT LEAST 1" VERTICALLY APART.  10. THE INSTALLATION SHOULD BE CHECKED AND CORRECTED FOR ANY DEVIATIONS BEFORE COMPACTION. USE A FLAT-BLADED SHOVEL TO TUCK FABRIC DEEPER
Machine Direction			400 (90)	550 (90)	MARV	INTO THE TRENCH IF NECESSARY.  11. COMPACT THE SOIL IMMEDIATELY NEXT TO THE SILT FENCE FABRIC.
X—Machine Direction			400 (90)	450 (90)	MARV	MAINTENANCE NOTES
	ASTM D 4491	sec-1	0.05	0.05	MARV	SILT FENCES SHALL BE INSPECTED ALONG ITS ENTIRETY AND MUST BE CLEANE     WHEN SEDIMENT HAS ACCUMULATED TO ONE—THIRD THE HEIGHT OF THE SIL
	ASTM D 5141	gal/sf/min	75% and min. flow rate of 0.3	75% and min. flow rate of 0.3	Typical	FENCE. MAINTENANCE CLEANOUT MUST BE CONDUCTED REGULARLY TO PREVEN ACCUMULATED SEDIMENTS FROM REACHING ON—THIRD THE HEIGHT OF THE SIL FENCE.
	ASTM D 4355	% Retained Strength	80% @ 500 h of exposure	80% @ 500 h of exposure	Typical	ALL MATERIAL EXCAVATED FROM BEHIND SILT FENCE SHALL BE STOCKPILED C     AN UPLAND PORTION OF THE SITE IF SUITABLE FOR REUSE.     SPECIAL ATTENTION SHALL BE PAID TO ENSURE THAT NO UNDERMINING OF SILE.
		ASTM D 4632  Machine Direction  X-Machine Direction  ASTM D 4491  ASTM D 5141	ASTM D 4632 N (lbs)  Machine Direction  X-Machine Direction  ASTM D 4491 sec-1  ASTM D 5141 gal/sf/min  ASTM D 4355 Retained	Test Method Units Silt Fence	Test Method Units   Silt Fence   Silt Fence     ASTM D 4632   N (lbs)   90 lbs     Machine Direction   400	Test Method Units   Silt Fence   Silt Fence   Value

ASilt fence support shall consist of 14 gage steel wire with a mesh spacing of 150 mm (6 in.) or prefabricated polymer mesh of equivalent strength. These default values are based on empirical evidence with a variety of sediments. For environmentally sensitive areas, a review of previous experience and/or site or flegionally specific geotextile tests in accordance with Test Method D 5141 should be performed by the agency to confirm suitability of these requirements. As measured in accordance with Test Method D 4632.

TABLE 1 TAKEN FROM ASTM D 6461-99 (2007)

ELEVATION SPECIFICATIONS FOR SILT FENCE INSTALLATION

> 1. SILT FENCE SHALL BE PROVIDED AND INSTALLED PER ASTM D-6462-03 LATEST 2. INSTALL SILT FENCE AT A FAIRLY LEVEL GRADE ALONG THE CONTOUR WITH THE ENDS CURVED UPHILL TO PROVIDE SUFFICIENT UPSTREAM STORAGE VOLUME FOR ANTICIPATED RUNOFF 3. INSTALL POSTS AT A MAXIMUM OF 10' APART. INSTALL POSTS AT A MINIMUM DEPTH OF 12" ON THE DOWNSTREAM SIDE OF THE SILT FENCE, AND AS CLOSE AS POSSIBLE TO THE FABRIC, ENABLING POSTS TO SUPPORT UPSTREAM WATER PRESSURE ON THE

)		MAINTENANCE NOTES
E	MARV	1 SILT FENCES SHAI

WRAP APPROXIMATELY 6" OF FABRIC AROUND THE END POSTS AND SECURE

WHEN NECESSARY TO CONTINUE FENCE, OVERLAP SILT FENCE FABRIC ACROSS

WHEN TWO SECTIONS OF SILT FENCE FABRIC ADJOIN EACH OTHER THEY SHALL

ATTACH THE FABRIC TO EACH POST WITH THREE TIES, ALL SPACED WITHIN THE TOP 8" OF THE FABRIC. ATTACH EACH TIE DIAGONALLY 45 DEGREES THROUGH THE FABRIC, WITH EACH PUNCTURE AT LEAST 1" VERTICALLY APART.

BE OVERLAPPED A MINIMUM ACROSS TWO POSTS, AS SHOWN.

5. INSTALL WITH THE POSTS AWAY FROM THE SILT FENCE FABRIC.

2. ALL MATERIAL EXCAVATED FROM BEHIND SILT FENCE SHALL BE STOCKPILED ON AN UPLAND PORTION OF THE SITE IF SUITABLE FOR REUSE. 3. SPECIAL ATTENTION SHALL BE PAID TO ENSURE THAT NO UNDERMINING OF SILT FENCE HAS OCCURRED AND THAT NO BYPASS IS OCCURRING AT JOINING

4. IF EXCESS SEDIMENT IS ACCUMULATING IN ANY SECTION OF SILT FENCE, THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL UPSTREAM STABILIZATION MEASURES OR ADDITIONAL BMPS TO PREVENT EXCESSIVE BUILDUP ON SILT FENCE. 5. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED.

SILT FENCE INSTALLATION

B.M.P.'s (BEST MANAGEMENT PRACTICES)

THESE PLANS ADDRESSES THE FOLLOWING AREAS:

1. GENERAL EROSION CONTROL.

OTECTION OF SURFACE WATER QUALITY DURING AND AFTER CONSTRUCTION 3. CONTROL OF WIND EROSION.

THE VARIOUS TECHNIQUES OR ACTIONS IDENTIFIED UNDER EACH SECTION INDICATE THE APPROPRIATE SITUATION WHEN THE TECHNIQUES SHOULD BE EMPLOYED. IT SHOULD BE NOTED THAT THE MEASURES IDENTIFIED ON THIS PLAN ARE ONLY SUGGESTED BMP(S). THE CONTRACTOR SHALL PROVIDE POLLUTION PREVENTION AND EROSION CONTROL MEASURES AS NECESSARY FOR EACH SPECIFIC APPLICATION.

SECTION 1 GENERAL EROSION CONTROL

1.1 GENERAL EROSION CONTROL BMPS SHALL BE EMPLOYED TO MINIMIZE SOIL EROSION AND SLOPE WASH-OUTS. WHILE THE VARIOUS TECHNIQUES REQUIRED WILL BE SITE AND PLAN SPECIFIC, THEY SHOULD BE EMPLOYED AS SOON AS POSSIBLE DURING CONSTRUCTION ACTIVITIES.

1.2 CLEARED SITE DEVELOPMENT AREAS NOT CONTINUALLY SCHEDULED FOR CONSTRUCTION ACTIVITIES SHALL BE COVERED WITH HAY OR OVERSEEDED AND PERIODICALLY WATERED SUFFICIENT TO STABILIZE THE TEMPORARY GROUNDCOVER.

1.3 SLOPES OF BANKS OF WET DETENTION PONDS SHALL BE CONSTRUCTED NOT STEEPER THAN 4H:1V FROM TOP OF BANK TO (2) FEET BELOW NORMAL WATER LEVEL, (CONTROL ELEVATION).

1.4 ALL GRASS SLOPES CONSTRUCTED 4H:1V AND STEEPER SHALL BE SODDED AS SOON AS PRACTICAL AFTER THEIR CONSTRUCTION.

1.5 SOD SHALL BE PLACED FOR A 3-FOOT WIDE STRIP ADJOINING ALL CURBING AND AROUND ALL INLETS. SOD SHALL BE PLACED BEFORE SILT BARRIERS ARE REMOVED.

1.6 WHERE REQUIRED TO PREVENT EROSION FROM SHEET FLOW ACROSS BARE GROUND FROM ENTERING A LAKE OR SWALE, A TEMPORARY SEDIMENT SUMP SHALL BE CONSTRUCTED. THE TEMPORARY SEDIMENT SUMP SHALL REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED ON THE GROUND DRAINING TO THE SUMP.

SECTION 2 PROTECTION OF SURFACE WATER QUALITY DURING & AFTER CONSTRUCTION

2.1 SURFACE WATER QUALITY SHALL BE MAINTAINED BY EMPLOYING THE FOLLOWING BMPS, AT A MINIMUM, IN THE CONSTRUCTION PLANNING AND CONSTRUCTION OF ALL

2.2 WHERE PRACTICAL, STORMWATER SHALL BE CONVEYED BY SWALES.

2.3 EROSION CONTROL MEASURES SHALL BE EMPLOYED TO MINIMIZE TURBIDITY OF SURFACE WATERS LOCATED DOWNSTREAM OF ANY CONSTRUCTION ACTIVITY. WHILE THE VARIOUS MEASURES REQUIRED WILL BE SITE SPECIFIC, THEY SHALL BE EMPLOYED AS NEEDED IN ACCORDANCE WITH THE FOLLOWING:

A. IN GENERAL, EROSION SHALL BE CONTROLLED AT THE FURTHEST PRACTICAL UPSTREAM LOCATION.

B. STORMWATER INLETS SHALL BE PROTECTED DURING CONSTRUCTION AS SHOWN. PROTECTION MEASURES SHALL BE EMPLOYED AS SOON AS PRACTICAL DURING THE VARIOUS STAGES OF INLET CONSTRUCTION. SILT BARRIERS SHALL REMAIN IN PLACE UNTIL SODDING AROUND INLETS IS COMPLETE.

2.4 HEAVY CONSTRUCTION EQUIPMENT PARKING AND MAINTENANCE AREAS SHALL BE DESIGNED TO PREVENT OIL, GREASE, AND LUBRICANTS FROM ENTERING SITE DRAINAGE FEATURES INCLUDING STORMWATER COLLECTION AND TREATMENT SYSTEMS. CONTRACTORS SHALL PROVIDE BROAD DIKES, HAY BALES OR SILT SCREENS AROUND, AND SEDIMENT SUMPS WITHIN, SUCH AREAS AS REQUIRED TO CONTAIN SPILLS OF OIL, GREASE OR LUBRICANTS. CONTRACTORS SHALL HAVE AVAILABLE, AND SHALL USE, ABSORBENT FILTER PADS TO CLEAN UP SPILLS AS SOON AS POSSIBLE AFTER OCCURRENCE.

2.5 SILT BARRIERS, ANY SILT WHICH ACCUMULATES BEHIND THE BARRIERS, AND ANY FILL USED TO ANCHOR THE BARRIERS SHALL BE REMOVED PROMPTLY AFTER THE END OF THE MAINTENANCE PERIOD SPECIFIED FOR THE BARRIERS.

SECTION 3 CONTROL OF WIND EROSION

3.1 WIND EROSION SHALL BE CONTROLLED BY EMPLOYING, AT A MINIMUM, THE FOLLOWING METHODS AS NECESSARY AND APPROPRIATE:

B. AS SOON AS PRACTICAL AFTER COMPLETION OF CONSTRUCTION, BARE EARTH AREAS SHALL BE VEGETATED.

A. BARE EARTH AREAS SHALL BE WATERED DURING CONSTRUCTION AS NECESSARY TO MINIMIZE THE TRANSPORT OF FUGITIVE DUST. IT MAY BE NECESSARY TO LIMIT CONSTRUCTION VEHICLE SPEED IF BARE EARTH HAS NOT BEEN EFFECTIVELY WATERED. IN NO CASE SHALL FUGITIVE DUST BE ALLOWED TO LEAVE THE SITE UNDER CONSTRUCTION.

C. AT ANY TIME BOTH DURING AND AFTER SITE CONSTRUCTION THAT WATERING AND/OR VEGETATION ARE NOT EFFECTIVE IN CONTROLLING WIND EROSION AND/OR TRANSPORT OF FUGITIVE DUST, OTHER METHODS AS ARE NECESSARY FOR SUCH CONTROL SHALL BE EMPLOYED. THESE METHODS MAY INCLUDE ERECTION OF DUST CONTROL FENCES. IF REQUIRED, DUST CONTROL FENCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAIL FOR A SILT FENCE, AS SHOWN, EXCEPT THE MINIMUM HEIGHT SHALL BE

PROFESSIONAL SURVEYORS AND MAPPERS. CERTIFICATE NO. LB. 8030

BOARD OF PROFESSIONAL ENGINEERS, CERTIFICATE OF AUTHORIZATION NO. 30462

**CONSULTANT:** 

NO. REVISION DATE

PERMIT SET 06/28/2024

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DRAWING TITLE:

**Erosion Control Details** 

DRAWN RHO CHECKED OR 06.28.24 SCALE AS NOTED PRJCT# P22-339-A2

SHEET:

City of Port St. Lucie 121 SW Port St. Lucie Blvd. Port St. Lucie, FL 34952

Gross BASIN A Area Impervious Area Building, Pavement, Sidewalk		14.26 9.18	621,166 399,881	100.0% 64.4%		
		8.00	348,480	56.1%		
Lake <b>Pervious Area</b>		1.18	51,401	8.3%		
Open Space		5.08	221,285	35.6%		
орен орасс		5.08	221,285	35.6%		
LEGEND						
EXISTING	PROPOSED					
		= PROPERTY B	OUNDARY			
		= PHASE BOUN	DARY			
		= EASEMENT				
		= PARCEL LINE				
#		= NUMBER OF PARKING SPACES				
		= LIGHT POLE				
		= SIGN				
<b>∸</b> a		= FDC W/ SIGN				
		= 5' DECORATIVE FENCE				
		= 6' BUFFER W	ALL			
		= RETAINING WALL				
		= UNDERGROU	JND FPL (BY O	THERS)		
		= SECONDARY ELCTRIC LINE				
		= FIBER OPTIC CABLE (BY OTHERS)				
		= TRANSFORM	•	,		
12WM		= WATER LINE				
8SS		= SANITARY SE	WER			
		= DRAINAGE PI				
ι©	©	= FIRE HYDRAN				
M	×	= WATER VALV	/E			
Eng	9	= SANITARY SE	WER MANHOL	E		

= DRAINAGE STRUCTURE

= CONDENSER UNITS

DRAINAGE BASIN A AREAS ACRES SF PERCENTAGE %

PROP. CONNECTION -TO EX. SIDEWALK

CONC.

PORT ST. LUCIE CITY HALL

**DETAIL F** 

SCALE: 1"=30'

CONNECT TO EXIST. —

(TO REMAIN)

73' OF TYPE 'D' CURB

EX. LIGHT POLE

SIDEWALK

(1,340 S.F.)

EX. LIGHT POLE<sup>1</sup>.

CONNECT

SIDEWALK

TO EX. CONC.

(TO REMAIN)

U.E. & D.E.

'D' CURB

EX. CATCH BASIN —

3' CURB -TRANSITION

– PROP. CONC. SIDEWALK

ROUNDABOUT

6' CONC. — SIDEWALK

(35 S.F.)

CONNECT TO

EX. CONC.

SIDEWALK

EX. DIRECTIONAL

SIDEWALK

(1,570 S.F.)

- WHEEL STOP

EX. DRIVEWAY

(TO REMAIN)

EX. CONC. SIDEWALK

TURNOUT

— CONNECT TO

ARROWS

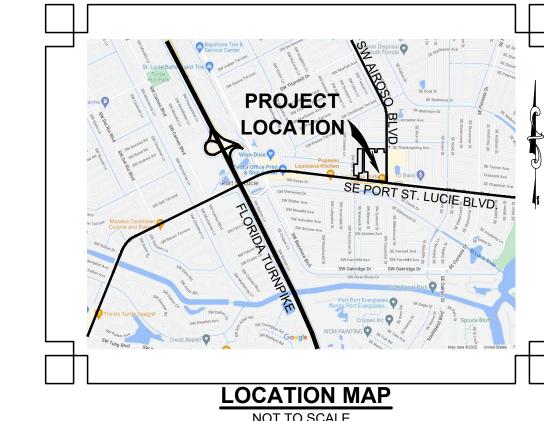
(TO REMAIN)

SIDEWALK

RAISE EDGE OF -CONC. SLAB WITHIN COVERED AREA TO F.F.E.

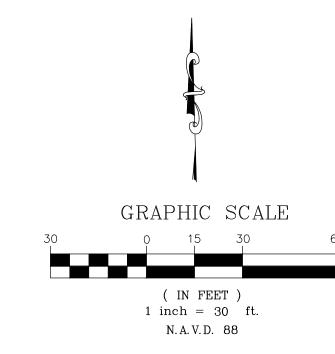
RAISE EDGE OF -CONC. SLAB WITHIN COVERED AREA TO F.F.E.





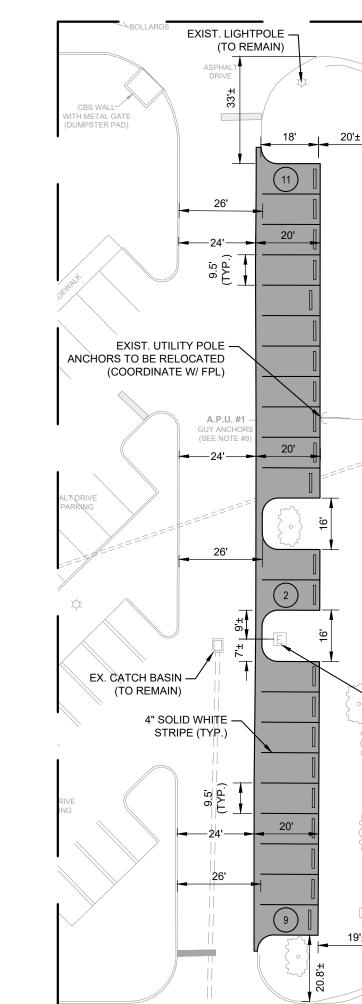
PERMIT SET 06/28/2024 CONSULTANT:

NO. REVISION DATE



EXIST. CONC.

SIDEWALK



AIROSO BC - EX. TRANSFORMER (TO REMAIN)

DETAIL E

SCALE: 1"=30'

(22 ADDITIONAL SPACES)

DRAWING TITLE:

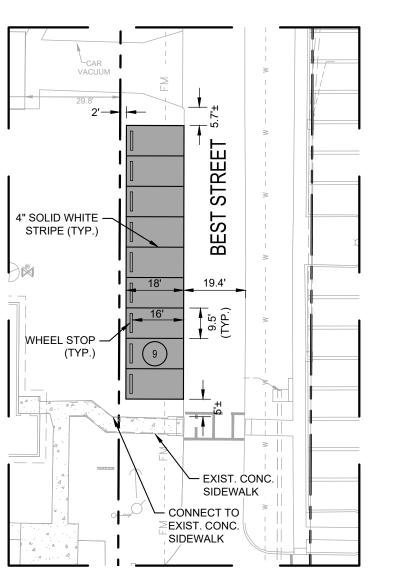
SHEET:

DRAWN	RHO
CHECKED	OR
DATE	06.28.24
SCALE	AS NOTED
PRJCT# P2	22-339-A2

ARCHITECTS

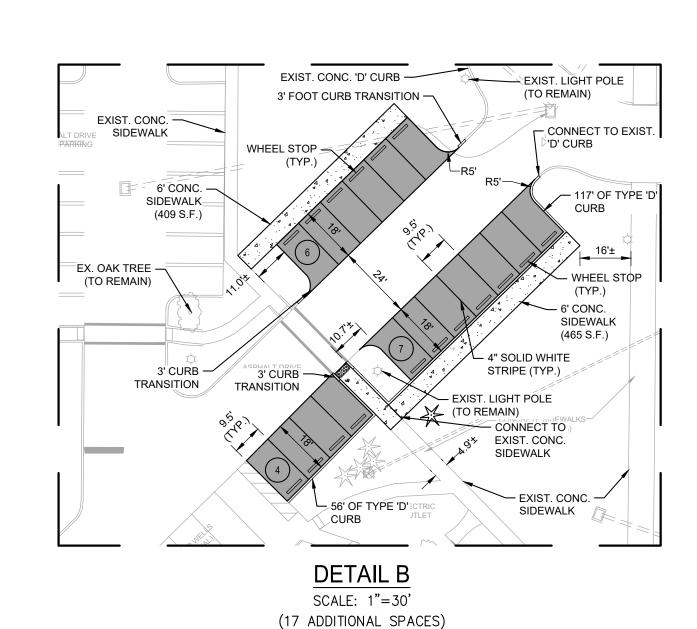
OVERALL SITE PLAN SCALE: 1"=100'

PORT ST. LUCIE BOULEVARD



**DETAIL A** SCALE: 1"=30' (9 ADDITIONAL SPACES)

88 ADDITIONAL SPACES TOTAL



SEE DETAIL F

46' OF TYPE 'D' CURB FLUSH — CONC. EX. LIGHT POLE SIDEWALK (355 S.F.) SIDEWALK (305 S.F.) TRANSITION 6' CURB RAMP — EX. STORM MH (TO REMAIN) BENCH 320' OF TYPE 'D' -CURB 4" SOLID WHITE
STRIPE (TYP.) EX. STORM MH (TO REMAIN) 6' CONC. — SIDEWALK (640 S.F.) 4" SOLID YELLOW STRIPE (TYP.) 24.5' VEHIÇLÉ TURN AROUND AREA

SIDEWALK

DETAIL C SCALE: 1"=30' (19 ADDITIONAL SPACES)

COVERED AREA NOTE

FUTURE IMPROVEMENTS TO THE REAR COVERED AREA LOCATED AT THE BACK ENTRANCE OF THE BUILDING INCLUDE A RAISED CONCRETE SLAB TO THE F.F.E. AND AN ADA ACCESSIBLE RAMP. IN THE REAR PATIOS CURRENT CONFIRGUATION, THE REMOVAL OF AN EXISTING TREE IS REQUIRED TO PROVIDE CLEARANCE TO MEET ADA STANDARDS.

DETAIL D

SCALE: 1"=30'

(30 ADDITIONAL SPACES)

PROFESSIONAL SURVEYORS AND MAPPERS, CERTIFICATE NO. LB. 8030

BOARD OF PROFESSIONAL ENGINEERS, CERTIFICATE OF AUTHORIZATION NO. 30462

121 SW Port St. Lucie Blvd. Port St. Lucie, FL 34952

City of Port St. Lucie

OWNER

PROJECT AREAS	ACRES	SF	PERCENTAGE
Gross Project Area	0.54	23,641	100%
Impervious Area	0.41	18,091	76.5%
Building, Pavement, Sidewalk	0.41	18,091	76.5%
Pervious Area	0.13	5,550	23.5%
Open Space	0.13	5,550	23.5%

LEGEND **EXISTING** PROPOSED

I KOI OOLD	
	= PROPERTY BOUNDARY
	= PHASE BOUNDARY
	= EASEMENT
	= PARCEL LINE
#	= NUMBER OF PARKING SPA
_	= LIGHT POLE

PACES = LIGHT POLE = SIGN = FDC W/ SIGN

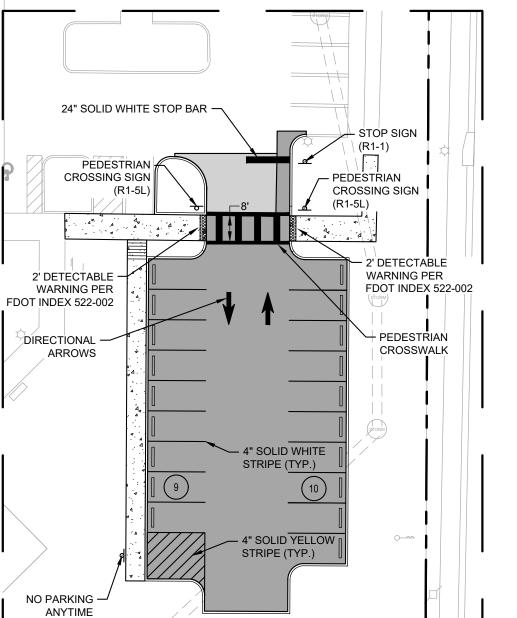
= 5' DECORATIVE FENCE = 6' BUFFER WALL = RETAINING WALL = UNDERGROUND FPL (BY OTHERS) = SECONDARY ELCTRIC LINE = FIBER OPTIC CABLE (BY OTHERS)

> = TRANSFORMER = WATER LINE = SANITARY SEWER = DRAINAGE PIPE

= FIRE HYDRANT = WATER VALVE = SANITARY SEWER MANHOLE = DRAINAGE STRUCTURE = CONDENSER UNITS

= NEW PAVEMENT CONSTRUCTION

= EXIST. PAVEMENT MILLING & RESURFACING = NEW CONCRETE SIDEWALK



DETAIL C SCALE: 1"=30'



CENTER OF

ROUNDABOUT

PEDESTRIAN -

SIGN

- PEDESTRIAN CROSSWALK

- NEW NO PARKING

CROSSING SIGN

(R1-5L)

– PEDESTŘÍAŇ

CROSSING SIGN

- 4" SOLID WHITE STRIPE (TYP.)

ANY TIME SIGN (R7-4) OVER PEDESTRIAN

EX. DIRECTIONAL —

PEDESTRIAN — CROSSING SIGN (R1-5L)

PEDESTRIAN -

CROSSWALK

ARROWS TYP. 🤏

(TO REMAIN):

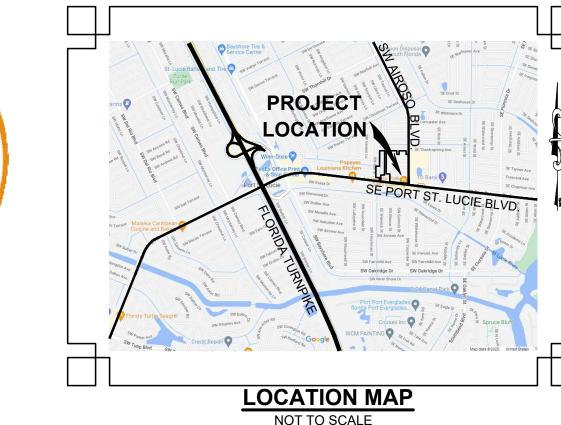
4" SOLID WHITE -STRIPE (TYP.)

EX. YIELD SIGN —

(TO REMAIN)

ARROWS TYP.

(TO REMAIN)



NO. REVISION DATE

PERMIT SET 06/28/2024

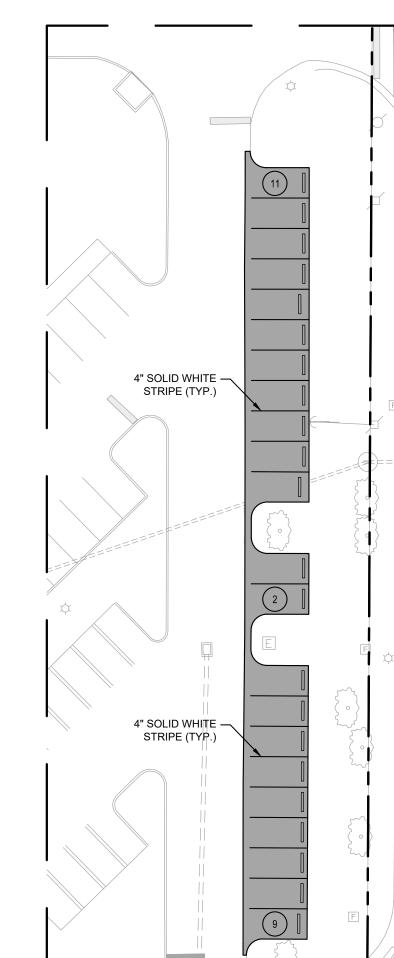
CONSULTANT:

Municipal

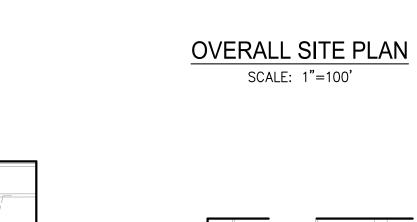
SL

GRAPHIC SCALE ( IN FEET )

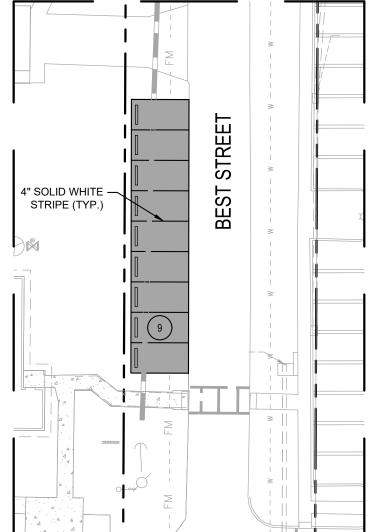
> 1 inch = 30 ft.N. A. V. D. 88



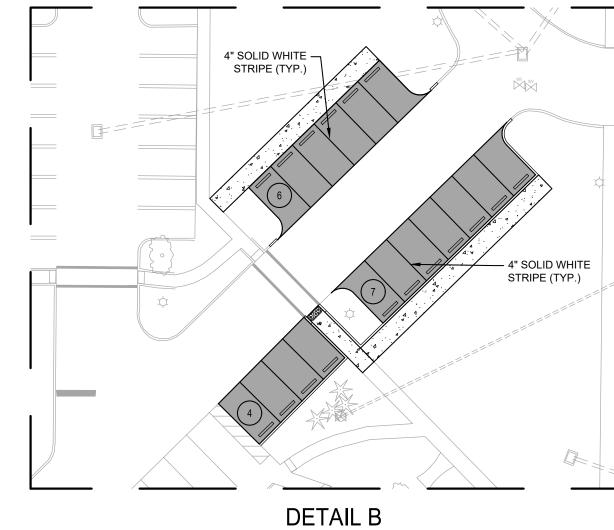
DETAIL E SCALE: 1"=30' (22 ADDITIONAL SPACES)



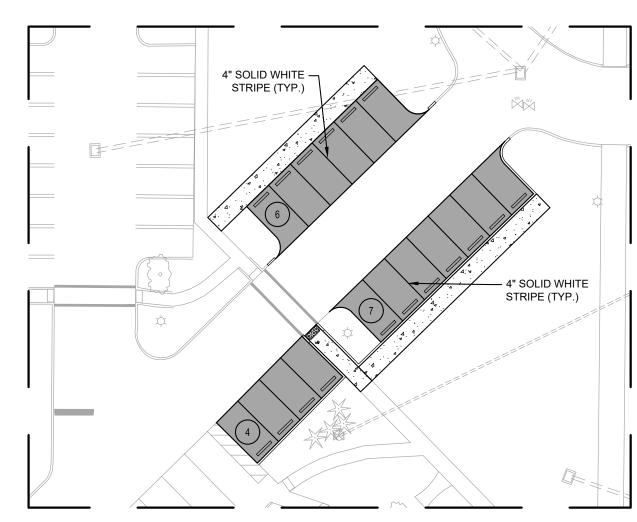
PORT ST. LUCIE BOULEVARD



**DETAIL A** SCALE: 1"=30' (9 ADDITIONAL SPACES)



SCALE: 1"=30' (17 ADDITIONAL SPACES)





SIGN

(19 ADDITIONAL SPACES)

DETAIL D

SCALE: 1"=30'

(30 ADDITIONAL SPACES)

C-6

SHEET:

DRAWING TITLE:

DRAWN RHO CHECKED OR

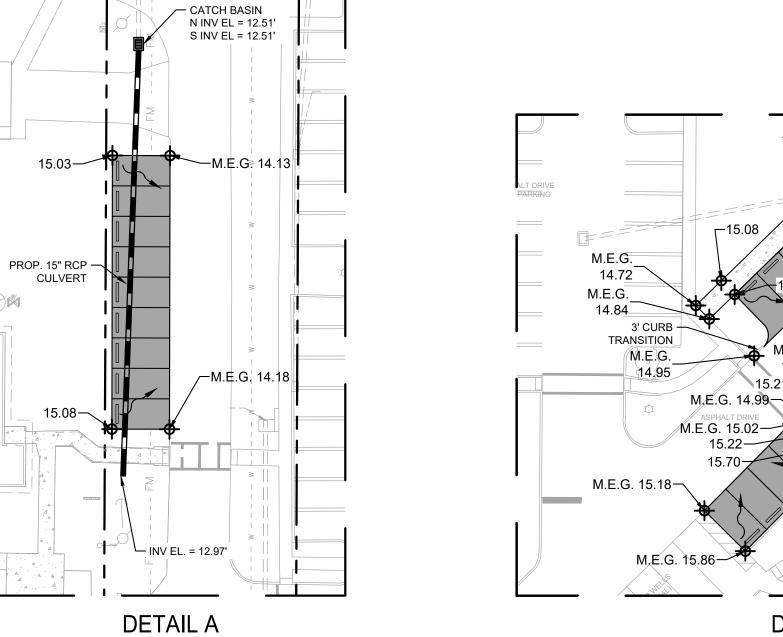
Marking & Signage Plan

SCALE AS NOTED PRJCT# P22-339-A2

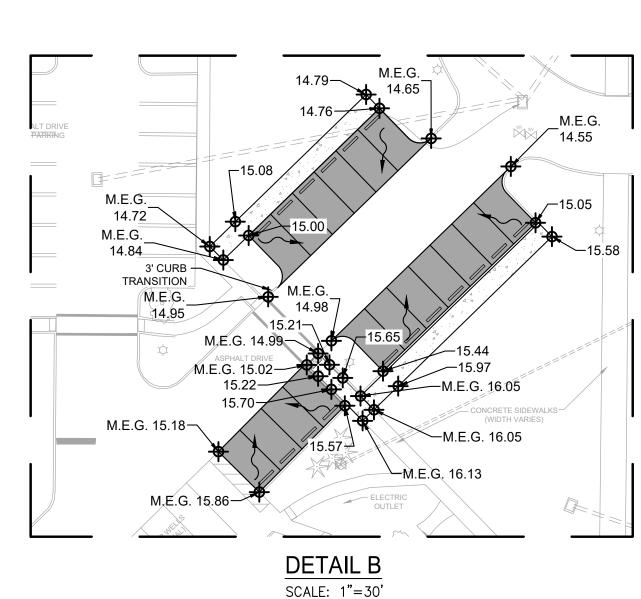
88 ADDITIONAL SPACES TOTAL

PROFESSIONAL SURVEYORS AND MAPPERS, CERTIFICATE NO. LB. 8030 BOARD OF PROFESSIONAL ENGINEERS, CERTIFICATE OF AUTHORIZATION NO. 30462

### OVERALL SITE PLAN SCALE: 1"=100'



SCALE: 1"=30'



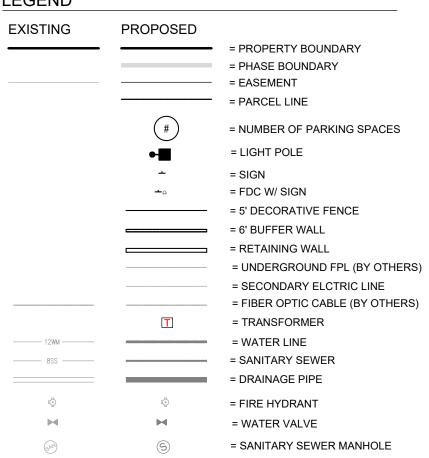
#### DRAINAGE STATEMENT

- The surface water management system for the proposed Parking Expansion at Port St. Lucie project will comply with the requirements of the South Florida Water Management District.
- Expansion at Port St. Lucie will provide the following: - On-site water quality for commercial uses.

Generally the proposed surface water management system for the Parking

- Required commercial dry-pre-treatment will be provided in exfiltration trench and/or dry retention.
- Direct storm water runoff from the proposed project to be routed through the proposed on-site lake.
- Connection of the proposed on-site lake to the Port Saint Lucie D-27 drainage ditch which flows to the Kingsway Canal via an outfall system.

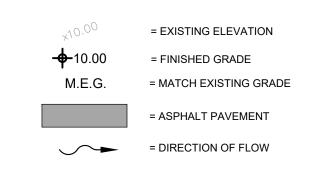
#### LEGEND

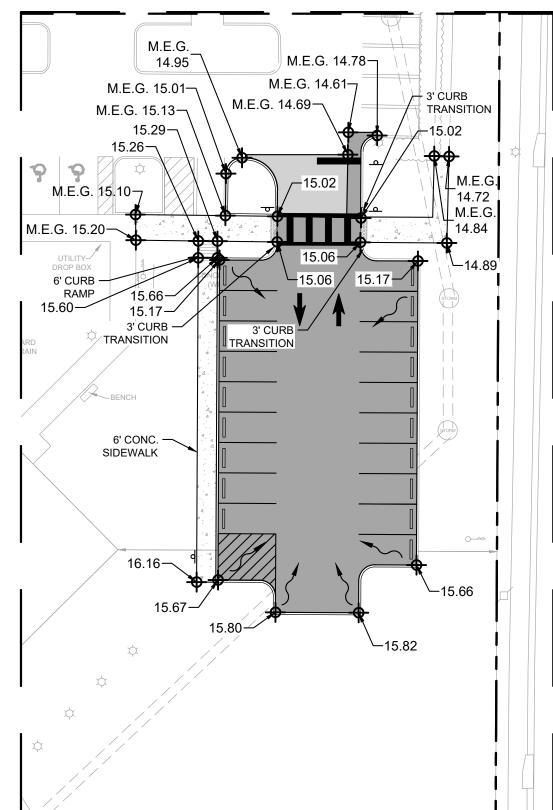


= DRAINAGE STRUCTURE

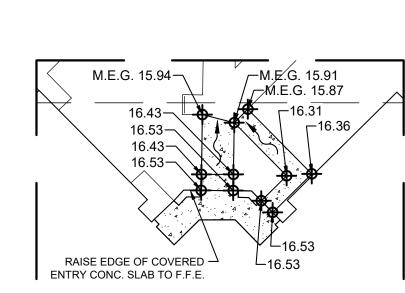
= CONDENSER UNITS

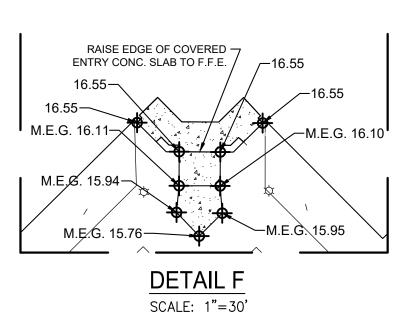
# GRADING PLAN LEGEND

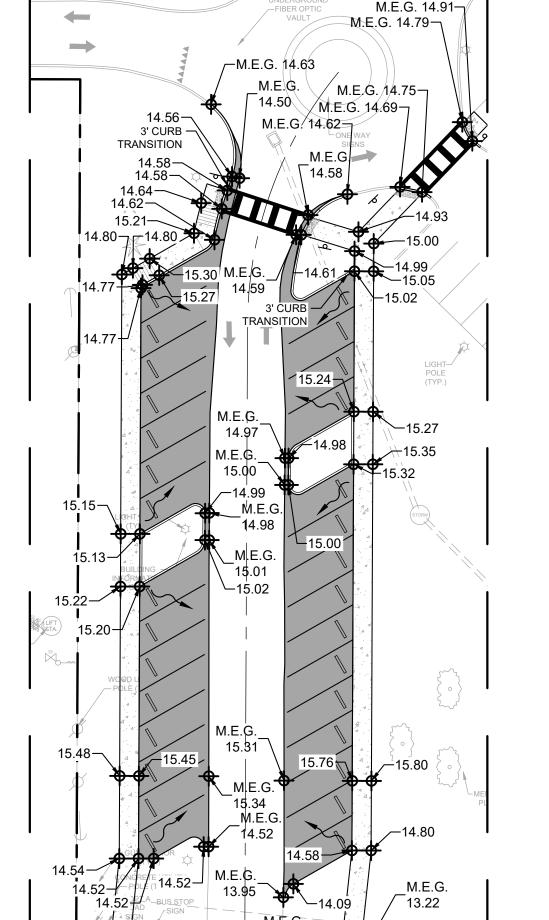




<u>DETAIL C</u> SCALE: 1"=30'

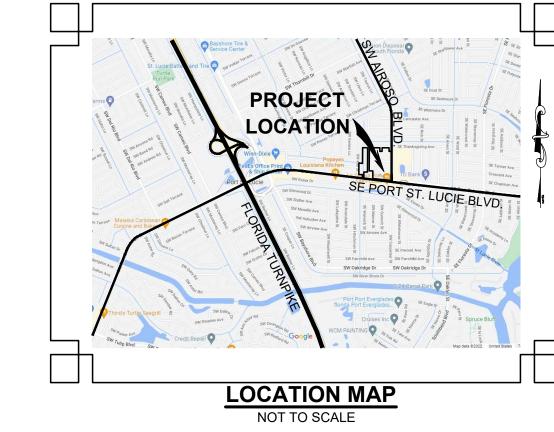


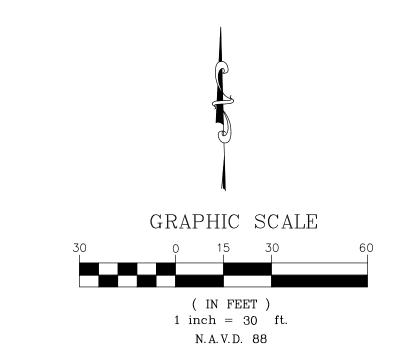


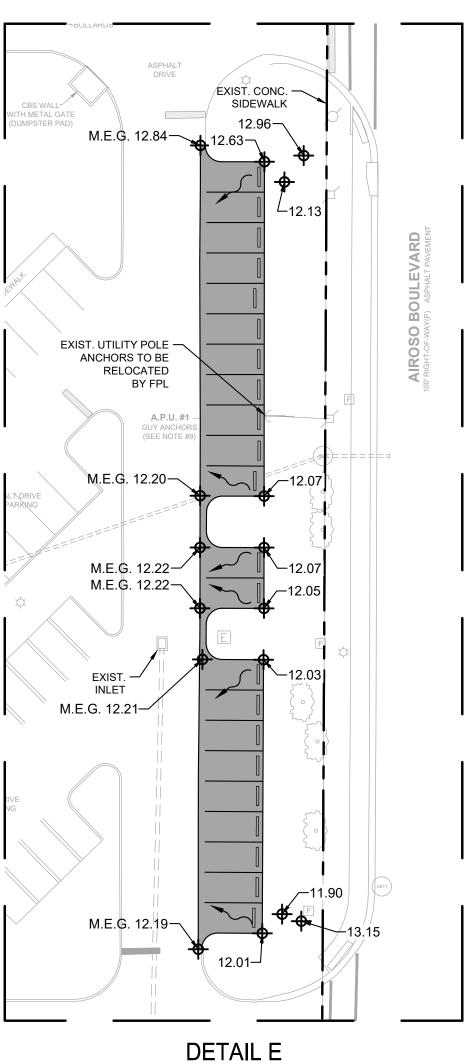


DETAIL D SCALE: 1"=30'









SCALE: 1"=30'

PROFESSIONAL SURVEYORS AND MAPPERS, CERTIFICATE NO. LB. 8030 BOARD OF PROFESSIONAL ENGINEERS, CERTIFICATE OF AUTHORIZATION NO. 30462

xpansion Municipal

NO. REVISION DATE

PERMIT SET 06/28/2024

CONSULTANT:

DRAWING TITLE: Paving, Grading & Drainage Plan

DRAWN RHO CHECKED OR SCALE AS NOTED PRJCT# P22-339-A2

C-7

SHEET:

IT IS INTENDED THAT THE FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION". LATEST EDITION AND "DESIGN STANDARDS". LATEST EDITION, BE USED WHERE APPLICABLE FOR VARIOUS WORK, AND THAT WHERE SUCH WORDING THEREIN REFERS TO THE STATE OF FLORIDA AND ITS DEPARTMENT OF TRANSPORTATION AND PERSONNEL, SUCH WORDING IS INTENDED TO BE REPLACED WITH THAT WORDING WHICH WOULD PROVIDE PROPER TERMINOLOGY, THEREBY MAKING SUCH "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AND "DESIGN STANDARDS" AS THE "STANDARD SPECIFICATIONS" FOR THIS PROJECT

IF WITHIN THAT PARTICULAR SECTION ANOTHER SECTION, ARTICLE OR PARAGRAPH IS REFERRED TO, IT SHALL BE A PART OF THE "STANDARD SPECIFICATIONS" ALSO.

ALL WORK SHALL BE DONE IN A WORKMANLIKE MANNER AND SHALL CONFORM WITH ALL APPLICABLE CITY, COUNTY, STATE AND FEDERAL REGULATIONS AND/OR CODES. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND LICENSES REQUIRED TO BEGIN WORK.

#### **GENERAL NOTES:**

1. THE CONTRACTOR SHALL GIVE THE ENGINEER AT LEAST 48 HOURS NOTICE PRIOR TO REQUESTING REQUIRED CONSTRUCTION OBSERVATIONS AND SHALL SUPPLY ALL EQUIPMENT NECESSARY TO PROPERLY TEST AND INSPECT THE COMPLETED WORK.

2. THE CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR A PERIOD OF ONE YEAR FROM THE DATE OF PROJECT ACCEPTANCE, DURING WHICH TIME ALL FAULTY CONSTRUCTION AND/OR MATERIALS SHALL BE CORRECTED AT THE CONTRACTOR'S

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING ABOVE-GROUND, UNDERGROUND, AND ON THE SURFACE STRUCTURES AND UTILITIES AGAINST THE CONSTRUCTION OPERATION THAT MAY CAUSE DAMAGE TO SAID FACILITY.

4. THE LOCATIONS AND SIZES OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR HIS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION AND SIZE OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES 5. THE CONTRACTOR SHALL GIVE ADEQUATE NOTIFICATION TO ALL AFFECTED UTILITY OWNERS FOR REMOVAL, RELOCATION AND

6. STREET OR HIGHWAY RESTORATION WORK IS TO BE DONE AS PER THE LOCAL OR STATE AGENCY HAVING JURISDICTION.

7. THE CONTRACTOR SHALL COMPLY WITH ALL RULES AND REGULATIONS OF THE STATE, COUNTY AND CITY AUTHORITIES REGARDING

8. TRAFFIC CONTROL ON ALL CITY, COUNTY AND STATE HIGHWAY RIGHTS-OF-WAY SHALL MEET THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (U.S. DOT/FHA) AND THE REQUIREMENTS OF THE STATE AND ANY LOCAL AGENCY HAVING

9. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY WHEN A CONFLICT BETWEEN THE DRAWINGS AND ACTUAL CONDITIONS IS DISCOVERED DURING THE COURSE OF CONSTRUCTION.

10. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE PRIOR TO BIDDING THE WORK AND TO PERFORM SUCH TESTS. STUDIES AND SURVEYS AS HE DEEMS NECESSARY TO SATISFY HIMSELF AS TO ACTUAL SURFACE AND SUBSURFACE CONDITIONS EXISTING AT THE SITE. ACTUAL CONDITIONS THAT DIFFER FROM THOSE SHOWN ON DRAWINGS SHALL NOT CONSTITUTE A BASIS FOR ADDITIONAL

11. ALL ELEVATIONS REFER TO N.A.V.D. 1988 DATUM, UNLESS OTHERWISE NOTED.

12. ALL CONSTRUCTION DEWATERING (WELL POINTS, SUMPS ETC.) WILL REQUIRE A DEWATERING PERMIT FROM THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT. THIS SHALL BE OBTAINED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

13. ANY CHANGES DUE TO FIELD CONDITIONS OR ANY OTHER DEVIATIONS FROM THE APPROVED DRAWINGS MUST BE APPROVED BY THE ENGINEER AND THE GOVERNING AUTHORITY HAVING JURISDICTION PRIOR TO BEING CONSTRUCTED

14. THE CONTRACTOR SHALL NOTIFY ALL UTILITY OWNERS HAVING FACILITIES IN THE AREA WITHIN AND ADJACENT TO THE PROPOSED CONSTRUCTION AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO BEGINNING CONSTRUCTION

15. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES:

- ONE (1) SET OF "APPROVED" CONSTRUCTION DRAWINGS ONE (1) COPY OF THE APPLICABLE UTILITY COMPANY'S "MINIMUM DESIGN AND CONSTRUCTION STANDARDS",
- ONE (1) COPY OF ALL CONTRACT DOCUMENTS AND, ONE (1) COPY OF ALL APPLICABLE LOCAL, STATE AND FEDERAL PERMITS REQUIRED FOR CONSTRUCTION.
- 16. THE CONTRACTOR SHALL PROVIDE A QUALIFIED SUPERINTENDENT TO REMAIN AT THE JOB SITE AT ALL TIMES WHEN WORK IS BEING PERFORMED. THE SUPERINTENDENT SHALL BE PRESENT AT ALL SCHEDULED CONSTRUCTION OBSERVATION MEETINGS.

#### SEDIMENTATION AND EROSION CONTROL:

PRIOR TO AND DURING CONSTRUCTION, THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN ALL SEDIMENTATION AND EROSION CONTROL MEASURES REQUIRED TO RETAIN SEDIMENT ON SITE AND TO PREVENT VIOLATIONS OF STATE WATER QUALITY STANDARDS SEDIMENTATION AND EROSION CONTROL FEATURES MAY INCLUDE BUT ARE NOT LIMITED TO SILT FENCES. SILTATION BARRIERS. GEOTEXTILE FILTER BARRIERS, BAILED HAY OR STRAW BARRIERS, TURRIDITY SCREENS AND SEDIMENTATION BASINS, CONSTRUCTION AND MAINTENANCE OF SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH SECTION 104 OF THE FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL.

DRAWINGS OR AS DIRECTED BY THE ENGINEER. IF A SEDIMENTATION AND EROSION CONTROL PLAN IS NOT INCLUDED IN THE APPROVED CONSTRUCTION DRAWINGS, THE CONTRACTOR SHALL PREPARE A SITE SPECIFIC SEDIMENTATION AND EROSION CONTROL PLAN IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND BEST MANAGEMENT PRACTICES. THIS PLAN SHALL BE APPROVED BY THE ENGINEER PRIOR TO BEGINNING CONSTRUCTION.

THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN ALL SEDIMENTATION AND EROSION CONTROL MEASURES AS SHOWN ON THE

R RETENTION/DETENTION FACILITIES SHALL BE EYCAVATED AND ROLIGH GRADED PRIOR TO BLUILDING CONSTRUCTION OR CONSTRUCTION OF IMPERVIOUS SURFACES WITHIN THE AREA SERVED BY THOSE RETENTION/DETENTION FACILITIES. ADEQUATE MEASURES SHALL BE TAKEN TO PREVENT EROSION PRIOR TO FINAL GRADING AND STABILIZATION OF THE RETENTION/DETENTION

STABILIZATION MEASURES, INCLUDING BUT NOT LIMITED TO, SODDING OR SEEDING AND MULCHING, SHALL BE INITIATED FOR SEDIMENTATION AND EROSION CONTROL ON ALL DISTURBED AREAS AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN SEVEN (7) DAYS AFTER CONSTRUCTION ACTIVITY HAS CEASED. THE CONTRACTOR SHALL INSPECT ALL SEDIMENTATION AND EROSION CONTROL MEASURES DAILY DURING CONSTRUCTION. ANY DEFICIENCIES SHALL BE IMMEDIATELY CORRECTED BY THE CONTRACTOR.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY OFF SITE WATER QUALITY IMPACTS OR OTHER ADVERSE IMPACTS DUE TO SEDIMENTATION AND EROSION FROM THE PROJECT SITE DURING CONSTRUCTION.

#### **GRADING:**

THE CONTRACTOR SHALL PERFORM ALL NECESSARY GRADING TO ACHIEVE THE FINISHED GRADING AS PER THE DRAWINGS. ALL WORKMANSHIP SHALL BE IN ACCORDANCE WITH THESE SPECIFICATIONS.

#### **PAVEMENT CONSIDERATIONS:**

FOR THE CONSTRUCTION OF EXTERIOR PAVEMENTS, AN IMPORTANT CONSIDERATION WITH THE CONSTRUCTION OF PAVEMENTS IS SURFACE AND SUBSURFACE DRAINAGE. W HERE STANDING WATER DEVELOPS, SOFTENING OF THE SUBGRADE AND OTHER PROBLEMS RELATED TO THE PREMATURE DETERIORATION OF THE PAVEMENT CAN BE EXPECTED.

PAVEMENT RECOMMENDATIONS ARE BASED UPON LOCAL EXPERIENCE WITH SIMILAR PAVEMENT CONDITIONS, FLORIDA DEPARTMENT OF TRANSPORTATION, AND AASHTO GUIDE FOR DESIGN OF PAVEMENT STRUCTURES.

REGARDLESS OF THE PAVEMENT TYPE, A MINIMUM SEPARATION OF 18 INCHES SHOULD BE MAINTAINED BETWEEN THE PAVEMENT AGGREGATE BASE (LIMEROCK) IN ASPHALT PAVEMENT AREAS, STABILIZED SUBGRADE IN CONCRETE PAVEMENT AREAS; AND THE SEASONAL HIGH GROUNDWATER LEVELS. IN MOST CASES, THIS SEPARATION IS AVAILABLE. NO FULL DEPTH ASPHALT OR CONCRETE SECTIONS ARE ALLOWED.

#### **ASPHALT (FLEXIBLE) PAVEMENTS:**

PRIME AND TACK COATS SHOULD BE APPLIED DURING THE CONSTRUCTION OF THE PAVEMENT SECTIONS IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. BEFORE APPLYING ANY BITUMINOUS MATERIAL, ALL LOOSE DUST, DIRT, AND OTHER FOREIGN MATERIAL WHICH MIGHT PREVENT PROPER BOND WITH THE EXISTING SURFACE SHOULD BE REMOVED. PARTICULAR CARE SHOULD BE TAKEN IN CLEANING THE OUTER EDGES, TO ENSURE THAT THE PRIME OR TACK COAT WILL ADHERE. PRIOR TO APPLYING PRIME COAT, THE MOISTURE CONTENT OF THE BASE SHOULD BE CHECKED TO MAKE SURE THAT IT DOES NOT EXCEED THE OPTIMUM MOISTURE.

THE ASPHALT CONCRETE PAVEMENT SHOULD CONSIST OF A SUPERPAVE MIX TYPE SP AS PER FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2010. SECTION 334 SUPERPAVE ASPHALT CONCRETE OR MARSHALL MIX PER FDOT STANDARDS. RECYCLED ASPHALT PAVEMENT (RAP) AND OTHER RECYCLED MATERIALS MAY BE USED AS INDICATED IN SECTION 334, PREVIOUSLY MENTIONED. IF THIS IS TO BE A LEED CERTIFIED PROJECT, CREDITS MAY BE AWARDED FOR USING SUCH MATERIALS.

DURING PLACEMENT, THE COMPACTION EFFORTS SHOULD BE MONITORED BY A GEOTECHNICAL TESTING COMPANY AND ASPHALT SHOULD BE COMPACTED TO A MINIMUM 95% LABORATORY MARSHALL DENSITY. AFTER PLACEMENT AND FIELD COMPACTION. ASPHALT SURFACE AND BASE COURSES SHALL BE RANDOMLY CORED AT MINIMUM RATE OF 3 CORES PER DAY'S PLACEMENT PER MIX TYPE, BUT NOT LESS THAN 3 CORES IN LIGHT DUTY AREAS AND 3 CORES IN HEAVY-DUTY AREAS SHALL BE OBTAINED, ASPHALT CONCRETE PAVEMENT SAMPLES SHALL BE TESTED FOR CONFORMANCE WITH DENSITY AND THICKNESS REQUIREMENTS. CORES SHALL BE CUT FROM MINIMAL LOADING AREAS REPRESENTATIVE OF THE PROJECT

TYPICALLY, THE MOST PREVALENT FLEXIBLE OR RIGID PAVEMENT BASE MATERIAL IN SOUTH FLORIDA IS LIMEROCK. LIMEROCK IS READILY AVAILABLE FROM FDOT APPROVED MINES IN SOUTH FLORIDA. AS AN ALTERNATIVE BASE COURSE, CRUSHED CONCRETE COULD BE USED. LIMEROCK SHOULD HAVE A MINIMUM LBR OF 100 AND SHOULD BE MINED FROM AN FDOT APPROVED SOURCE. LIMEROCK SHOULD BE PLACED IN MAXIMUM 6-INCH LIFTS AND COMPACTED TO 98 PERCENT OF THE MODIFIED PROCTOR (ASTM D 1557) MAXIMUM DRY DENSITY

LIMEROCK PAVEMENT BASE SHALL BE IN ACCORDANCE WITH SECTION 911 AND 200 OF THE FDOT SPECIFICATIONS FOR ROAD AND BRIDGE

#### STABILIZED SUBGRADE

CONSTRUCTION (CURRENT EDITION).

STABILIZED SUBGRADE SOIL MATERIAL SHOULD BE STABILIZED WITH ROCK TO A MINIMUM LIMEROCK BEARING RATIO (LBR) OF 40 PERCENT, AS SPECIFIED BY FDOT REQUIREMENTS FOR TYPE B OR TYPE C STABILIZED SUBGRADE. ALL STABILIZED SUBGRADE MATÉRIALS SHOULD BE COMPACTED TO 98 PERCENT OF THE MODIFIED PROCTOR (ASTM D1557) MAXIMUM DRY DENSITY. FURTHERMORE, THE STABILIZED SUBGRADE MAY BE IMPORTED MATERIAL OR A BLEND OF ON-SITE SOILS AND IMPORTED MATERIALS. IF A BLEND IS PROPOSED, THE CONTRACTORSHALL PERFORM A MIX DESIGN TO FIND THE OPTIMUM MIX PROPORTIONS. IT SHOULD BE NOTED THAT A MINIMUM OF 97 PERCENT OF THE STABILIZED MATERIAL

SHOULD PASS A 31/2 INCH SIEVE. TESTS SHALL BE PAID FOR BY THE CONTRACTOR.

#### **CONSTRUCTION TRAFFIC:**

LIGHT DUTY ROADWAYS AND INCOMPLETE PAVEMENT SECTIONS WILL NOT PERFORM SATISFACTORILY UNDER CONSTRUCTION TRAFFIC LOADINGS. CONSTRUCTION TRAFFIC (CONSTRUCTION EQUIPMENT, CONCRETE TRUCKS, SOD TRUCKS, GARBAGE TRUCKS, MOVING VANS, DUMP TRUCKS, ETC.) MUST BE RE-ROUTED AWAY FROM THESE ROADWAYS OR THAT THESE PAVEMENT SECTIONS ARE DESIGNED FOR

#### **CONSTRUCTION CONSIDERATIONS:**

EXPOSURE TO THE ENVIRONMENT MAY WEAKEN THE SOILS AT THE FOOTING BEARING LEVEL IF THE FOUNDATION EXCAVATIONS REMAIN OPEN FOR TOO LONG A TIME. THEREFORE, FOUNDATION CONCRETE SHOULD BE PLACED THE SAME DAY THAT EXCAVATIONS ARE DUG DURING THE RAINY SEASON OR IF RAIN IS ANTICIPATED. IF THE BEARING SOILS ARE SOFTENED BY SURFACE WATER INTRUSION OR EXPOSURE, THE SOFTENED SOILS MUST BE REMOVED FROM THE FOUNDATION EXCAVATION BOTTOM IMMEDIATELY PRIOR TO PLACEMENT OF CONCRETE. IF THE EXCAVATION MUST REMAIN OPEN OVERNIGHT, OR IF RAINFALL BECOMES IMMINENT WHILE THE BEARING SOILS ARE EXPOSED, WE RECOMMEND THAT A 1- TO 3-INCH THICK "MUD-MAT" OF "LEAN" CONCRETE BE PLACED ON THE BEARING SOILS BEFORE THE PLACEMENT OF REINFORCING STEEL.

ALL EROSION AND SEDIMENTATION SHALL BE CONTROLLED IN ACCORDANCE WITH SOUND ENGINEERING PRACTICE AND CURRENT STATE AND LOCAL REQUIREMENTS. IN A DRY AND UNDISTURBED STATE, THE UPPER ONE FOOT OF THE MAJORITY OF THE SOIL AT THE SITE WILL PROVIDE GOOD SUBGRADE SUPPORT FOR FILL PLACEMENT AND CONSTRUCTION OPERATIONS. HOWEVER, WHEN WET, THESE SOILS WILL DEGRADE QUICKLY WITH DISTURBANCE FROM CONTRACTOR OPERATIONS. THEREFORE, GOOD SITE DRAINAGE SHOULD BE MAINTAINED DURING EARTHWORK OPERATIONS, WHICH WILL HELP MAINTAIN THE INTEGRITY OF THE SOIL, THE SURFACE OF THE SITE SHOULD BE KEPT PROPERLY GRADED IN ORDER TO ENHANCE DRAINAGE OF THE SURFACE WATER AWAY FROM THE PROPOSED STRUCTURAL AREAS DURING THE CONSTRUCTION PHASE. AN ATTEMPT MUST BE MADE TO ENHANCE THE NATURAL DRAINAGE WITHOUT INTERRUPTING ITS PATTERN.

SOME LOCALIZED AREAS WITHIN THE EXCAVATIONS MAY NOT BE COMPLETELY DRY AND WILL REQUIRE THE USE OF SMALL SUMP PITS AND PUMPS TO FACILITATE THE PLACEMENT OF THE FOUNDATIONS. A TOTALLY DRY SUBGRADE SHOULD NOT BE ANTICIPATED; HOWEVER, THE SURFACE OF THE SUBGRADE SHOULD BE SUFFICIENTLY DEWATERED TO PROVIDE AN ADEQUATE SURFACE ON WHICH TO CONSTRUCT THE FOUNDATIONS AND FLOOR SLAB

THE OWNER SHALL PROVIDE THE SPECS AND SCOPE OF SERVICES FOR AN APPROVED INDEPENDENT TESTING. LABORATORY TO CONDUCT ALL REQUIRED TESTS ON SUBGRADE, BASE AND SURFACE COURSE MATERIALS. THE ENGINEER SHALL BE PRESENT FOR ALL TESTING. THE CONTRACTOR SHALL GIVE THE ENGINEER AT LEAST FORTY-EIGHT (48) HOURS NOTICE PRIOR TO ANY SCHEDULED TESTING. TEST RESULTS MUST BE SUBMITTED. TO THE ENGINEER PRIOR TO FINAL CERTIFICATION OR ANY REQUEST FOR PAYMENT ON THE ABOVE ITEMS

THE SCHEDULE FOR TESTING OF PARKING LOT CONSTRUCTION SHALL BE AS FOLLOWS:

- A. SUBGRADE:
- SAMPLES OF SUBGRADE MATERIAL SHALL BE TAKEN AT INTERVALS OF NOT MORE THAN 5000 SQUARE FEET, OR CLOSER AS MIGHT BE NECESSARY IN THE EVENT OF VARIATIONS IN SUBSOIL CONDITIONS. LIMEROCK BEARING RATIO (LBR) TESTS SHALL BE PERFORMED ON A COMPOSITE OF SAMPLES OF SUBGRADE MATERIALS, CONSISTING OF MATERIAL FROM FOUR (4) CONSECUTIVES SAMPLES, SUCH THAT ONE (1) LBR TEST IS PERFORMED AT INTERVALS OF NOT MORE THAN 20,000 SQUARE FEET
- 2. DENSITY TESTS SHALL BE TAKEN AT INTERVALS OF NOT MORE THAN 5000 SQUARE FEET OR CLOSER AS MIGHT BE NECESSARY.
- 1. SAMPLES OF BASE MATERIAL SHALL BE TAKEN AT INTERVALS OF NOT MORE THAN 10,000 SQUARE FEET. LIMEROCK BEARING RATIO (LBR) TESTS SHALL BE PERFORMED ON A COMPOSITE OF SAMPLES OF BASE MATERIALS. CONSISTING OF MATERIAL FROM FOUR (4) CONSECUTIVE SAMPLES, SUCH THAT ONE (1) LBR TEST IS PERFORMED AT INTERVALS OF NOT MORE THAN 40,000
- 2. DENSITY TESTS SHALL BE TAKEN AT INTERVALS OF NOT MORE THAN 10,000 SQUARE FEET OR CLOSER AS MIGHT BE NECESSARY

NOTE: A "NON-SOAKED" LBR TEST MAY BE USED IN LIEU OF A "STANDARD" (SOAKED) LBR TEST, PROVIDED THAT THE REQUIREMENT FOR ACCEPTANCE IS INCREASED BY 5 UNITS. i.e. "STANDARD" LBR=40 "NON-SOAKED" LBR=45

IF ANY TEST INDICATES THAT THE WORK DOES NOT MEET THE SPECIFICATIONS. THE SUBSTANDARD AREA SHALL BE REWORKED OR CORRECTED AND RETESTED, AT THE CONTRACTOR'S EXPENSE, UNTIL THE PROVISIONS OF THESE SPECIFICATIONS ARE MET. ALL FAILING TESTS SHALL BE PAID FOR BY THE CONTRACTOR.

#### **DENSITY TESTING SUMMARY**

FOR SANITARY AND DRAINAGE SYSTEMS WITH STRUCTURES:

- ONE TEST FOR STRUCTURE BEDDING • TWO TESTS AT EACH STRUCTURE PER LIFT
- ONE TEST PER LIFT FOR EACH PIPE RUN BETWEEN STRUCTURES FOR RUNS 200' OR LESS. INCLUDE PIPE BEDDING IF DISTURBED OR OVER-EXCAVATED. TWO TESTS PER LIFT STARTING AT BEDDING FOR EACH PIPE RUN BETWEEN STRUCTURES FOR RUNS OVER 200'. INCLUDE PIPE BEDDING IF DISTURBED OR OVER-EXCAVATED.
- FOR TRENCHES AND PAVEMENT: • PROVIDE A MINIMUM OF ONE TEST PER 100 LF OF TRENCH, OR FRACTION THEREOF
- PROVIDE A MINIMUM OF ONE TEST PER LIFT PER 2,500 SF OF STRUCTURAL (BUILDING PAD) FILL PROVIDE A MINIMUM OF ONE TEST PER LIFT PER 5,000 SF OF SITE FILL BELOW SUBGRADE
- PROVIDE A MINIMUM OF ONE TEST PER LIFT PER 5 000 SE OF SUBGRADE • PROVIDE A MINIMUM OF ONE TEST PER LIFT PER 5,000 SF OF BASE ROCK SUBMITTALS AND REPORTS:
- PROVIDE TESTING LOG OR SPREADSHEET IN ORDER OF AREAS TO BE TESTED SEPARATED BY SYSTEM (SAMPLE PROVIDED UPON • BLANK TESTING LOG OR SPREADSHEET SHALL BE SUBMITTED FOR APPROVAL WITH SHOP DRAWINGS
- TEST REPORTS SHALL INCLUDE LOCATION OF TESTS IN RELATION TO STATIONING, STRUCTURE NUMBERS OR OTHER RELEVANT \*REFER TO NOTES SECTION FOR BACKFILL, COMPACTION AND TESTING DETAILS. WHEN CONFLICTS OCCUR, THE MORE STRINGENT

## CONCRETE:

UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 3000 PSI.

ALL WORK CONCRETE AND MATERIALS SHALL COMPLY WITH THE LATEST EDITION INCLUDING ALL REVISIONS OF THE FOLLOWING

- 1. AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO);
- 2. AMERICA CONCRETE INSTITUTE (ACI);
- 3. AMERICAN SOCIETY FOR TESTING MATERIAL (ASTM);
- 4. AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG):
- 5. FDOT DESIGN STANDARDS 6. FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION;
- 7. FDOT STRUCTURES STANDARD INDEX;

8. APPLICABLE BUILDING CODES HAVING JURISDICTION IN THE AREA

CONCRETE CURB. CURB AND GUTTER. VALLEY GUTTER AND HEADER CURB SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 520 OF THE STANDARD SPECIFICATIONS. UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE

#### CONCRETE SIDEWALK:

CONCRETE SIDEWALK SHALL BE CONSTRUCTED TO THE DEPTH AND LIMITS SHOWN ON THE DRAWINGS IN ACCORDANCE WITH SECTION 522 OF THE "STANDARD SPECIFICATIONS", UNLESS OTHERWISE SPECIFIED OR INDICATED. ALL CONCRETE FOR SIDEWALK CONSTRUCTION SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS AND INCLUDE FIBER MESH REINFORCEMEN

DRIVEWAY / PARKING - REGULAR DUTY

MODIFIED PROCTOR (ASTM D1557)

MODIFIED PROCTOR (ASTM D1557)

8" ROCK BASE MIN. LBR=100 COMPACTED TO 98%

1.5" FDOT TYPE SP 9.5 ASPHALT OR EQUIVALENT, CONSTRUCTED IN ONE 1.5" LIFTS.

ON-SITE REGULAR DUTY

**ASPHALT PAVING** 

COMPACT TO A MIN. OF 95% OF MARSHALL DESIGN DENSITY

3 12" STABLIZIED SUBGRADE MIN. LBR=40 COMPACTED TO 98%

## **JOINTING**

#### **GENERAL:**

JOINTS MAY BE FORMED IN THE CONCRETE OR SAWED AFTER THE CONCRETE HAS HARDENED AND SHALL BE TO A DEPTH OF 1/4 THE THICKNESS OF PAVEMENT. FORMED JOINTS MAY BE CONSTRUCTED BY DEPRESSING AN APPROVED TOOL INTO THE PLASTIC MATERIAL SAWING OF JOINTS SHALL BEGIN AS SOON AS THE PAVEMENT HAS HARDENED SUFFICIENTLY TO PERMIT SAWING WITHOUT EXCESSIVE RAVELING AND BEFORE UNCONTROLLED CRACKING OCCURS

#### **CONSTRUCTION JOINTS:**

ALL LONGITUDINAL JOINTS MAY BE CONSTRUCTION JOINTS AT THE CONTRACTOR'S OPTION. TRANSVERSE CONSTRUCTION JOINTS SHALL BE INSTALLED WHENEVER THE PLACING OF CONCRETE IS SUSPENDED A SUFFICIENT LENGTH OF TIME THAT THE CONCRETE MAY BEGIN TO

ALL SIDEWALK CONSTRUCTION AND PLACEMENT OF JOINTS, INCLUDING THOSE AT INTERFACES WITH EXISTING ASPHALT AND/OR CONCRETE, SHALL BE PERFORMED IN ACCORDANCE WITH FDOT STANDARD INDEX 310 AND FDOT STANDARD SPECIFICATION SECTION 522.

#### DRAINAGE SPECIFICATIONS

STORM SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH SECTION 430 AND RELATED SECTIONS OF THE "STANDARD SPECIFICATIONS" OF THE FLORIDA DEPARTMENT OF TRANSPORTATION

STORM INLETS AND MANHOLES SHALL BE CONSTRUCTED IN GENERAL ACCORDANCE WITH SECTION 425 OF THE "STANDARD SPECIFICATIONS". ALL REINFORCING STEEL TO BE ASTM A 615-72 GRADE 40 FYP = 40,000 PSI, AND SHALL BE HANDLED AND PLACED IN ACCORDANCE WITH ACI 318-71

ALL INLETS, MANHOLES, AND PIPE SHALL BE PROTECTED DURING CONSTRUCTION TO PREVENT SILTATION IN THE DRAINAGE SYSTEM BY USE OF TEMPORARY PLUGS, PLYWOOD OR PLASTIC COVERS OR USE OF GEOTEXTILE FILTER FABRIC. THE ENTIRE DRAINAGE SYSTEM SHALL BE CLEANED OF ALL DEBRIS PRIOR TO FINAL INSPECTION AND CERTIFICATION.

#### **DISTURBED AREAS:**

ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE SODDED AS SPECIFIED BELOW:

WITHIN THE LIMITS DELINEATED ON THE DRAWINGS, THE CONTRACTOR SHALL, AFTER FINAL GRADING AND CLEANUP, ESTABLISH A STAND OF GRASS BY FURNISHING AND PLACING SOD IN ACCORDANCE WITH SECTION 575 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL WATER THE SODDED AREA TO MAINTAIN MOISTURE LEVELS FOR OPTIMUM GROWTH TO ASSURE A HEALTHY STAND OF GRASS. SOD SHALL BE BAHIA GRASS SOD UNLESS OTHERWISE SPECIFIED.

#### RECORD DRAWINGS:

THE CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS ON THE PROJECT SITE AT ALL TIMES WHICH SHALL BE ANNOTATED BY THE CONTRACTOR DEPICTING ANY CHANGES MADE IN THE FIELD WHICH DIFFER FROM THE APPROVED CONSTRUCTION DRAWINGS. UPON COMPLETION OF CONSTRUCTION, BUT PRIOR TO FINAL INSPECTION AND CERTIFICATION, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER THE REQUIRED NUMBER OF BLACK LINE COPIES BASED ON JURISDICTIONAL REQUIREMENTS PLUS 2 ADDITIONAL COPIES OF THE RECORD DRAWINGS. THE RECORD DRAWINGS SHALL BE AT THE SAME SCALE AS THE APPROVED CONSTRUCTION DRAWINGS AND SHALL ACCURATELY DEPICT THE HORIZONTAL AND VERTICAL LOCATION OF ALL FACILITIES INCLUDING BUT NOT LIMITED TO:

- A. CULVERTS INCLUDING PIPE INVERTS
- B. INLETS, MANHOLES, AND OTHER STRUCTURES INCLUDING DIMENSIONS, TOP, BOTTOM AND PIPE INVERT ELEVATIONS

#### C. PAVEMENT FINISH GRADES

D. PIPE AND UTILITY CROSSING INCLUDING ELEVATIONS AND HORIZONTAL AND VERTICAL CLEARANCE BETWEEN FACILITIES. THE RECORD DRAWINGS SHALL BE PREPARED AND CERTIFIED BY A SURVEYOR AND MAPPER LICENSED BY THE STATE OF FLORIDA IN PDF AND DWG FILE FORMATS.

CONTRACTOR SHALL PROVIDE PROGRESS COPIES OF AS-BUILTS AND APPLICABLE COMPONENTS OF THE CLOSE OUT PACKAGE ON A MONTHLY BASIS TO BE SUBMITTED WITH PAY APPLICATION. RECEIPT OF DOCUMENTATION IS A CONDITION OF PAYMENT

REFER TO THE LATEST EDITION OF CITY OF PSL UTILITY SYSTEMS DEPARTMENT UTILITY STANDARDS MANUAL FOR ADDITIONAL

#### CONSTRUCTION OBSERVATION:

MINIMUM CONSTRUCTION OBSERVATION CHECKPOINTS

REQUIREMENTS FOR RECORD DRAWINGS

- DURING LAYING OF PIPE AND PRIOR TO BACKFILLING PIPE TRENCHES. COMPLETION OF ALL DRAINAGE STRUCTURES AND PIPE LAYING (PRIOR TO BACKFILL).
- CONSTRUCTION AND STABILIZATION OF SWALES AND RETENTION AREAS SEEDING AND MULCHING OR SODDING WHERE EROSION IS EVIDENT OR WHERE DRAWINGS SO IDENTIFY.
- ALL PIPE LAYING PRIOR TO BACKFILL ALL CONNECTIONS TO EXISTING UTILITIES.
- INSPECTOR MUST SEE ALL CONFLICT CROSSING IF NOT PIPE WILL BE DUG UP SO SEPARATION MAY BE SEEN
- A. COMPLETION OF FORMING FOR PAVEMENT, CURBING, SIDEWALK, AND ALL OTHER CONCRETE STRUCTURES PRIOR TO PLACEMENT
- IV. PAVEMENT
- LINE AND GRADE SUB-GRADE (PRIOR TO ADDING BASE MATERIAL)
- BASE (PRIOR TO PRIMING AND SAND SEAL) BASE (AFTER PRIMING, SAND SEAL AND BEFORE PLACING ASPHALT)
- ASPHALT OR CONCRETE (WHILE PAVING IS IN PROGRESS
- SUB-GRADE
- SURFACE COURSE

FOR PROJECT OBSERVATIONS THE ENGINEER SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO ANY SCHEDULED FIELD OBSERVATIONS

## **CLEAN-UP:**

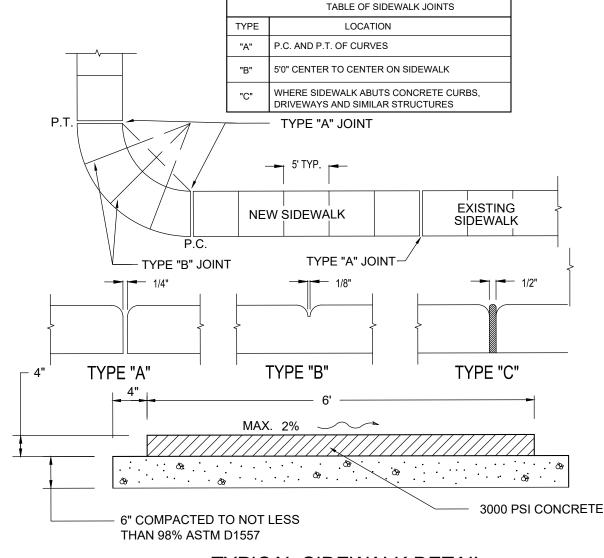
THE CONTRACTOR MUST PROVIDE CLEAN-UP OF EXCESS CONSTRUCTION MATERIAL UPON COMPLETION OF THE PROJECT. THE SITE MUST BE LEFT IN A NEAT, CLEAN, GRADED CONDITION.

#### FINAL INSPECTION:

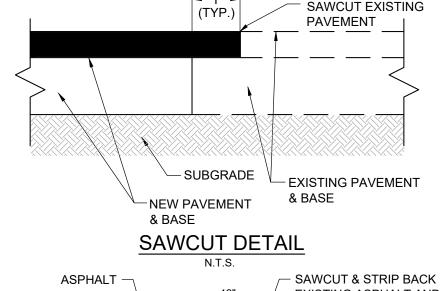
INSPECTION TEST REPORTS

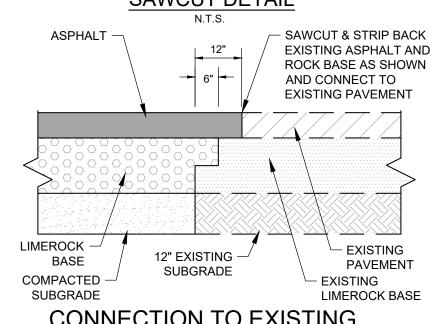
THE FINAL INSPECTION FROM THE ENGINEERING DEPARTMENT IS REQUIRED TO RECEIVE A CERTIFICATE OF OCCUPANCY FROM THE CITY. A FINAL ENGINEERING INSPECTION REPORT WILL NOT BE ISSUED TO THE BUILDING DEPARTMENT UNTIL THE FOLLOWING ITEMS ARE SUBMITTED TO THE ENGINEERING DEPARTMENT:

LETTER OF CERTIFICATION OF COMPLETION FROM ENGINEER (SIGNED AND SEALED) ELECTRONIC COPY OF THE CONSTRUCTION DRAWINGS (AUTOCAD) HARD COPY OF RECORD DRAWINGS (SIGNED AND SEALED)

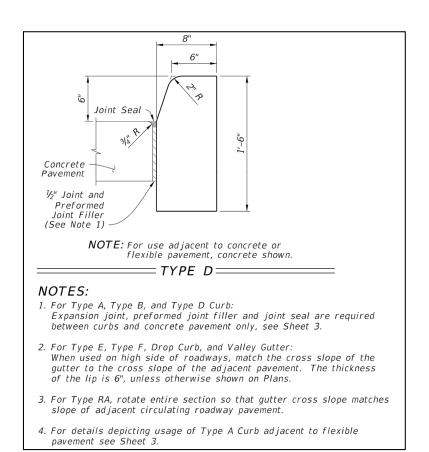


### TYPICAL SIDEWALK DETAIL





## **CONNECTION TO EXISTING** PAVEMENT DETAIL



TYPE D CURB (REFER TO FDOT INDEX 520-001)



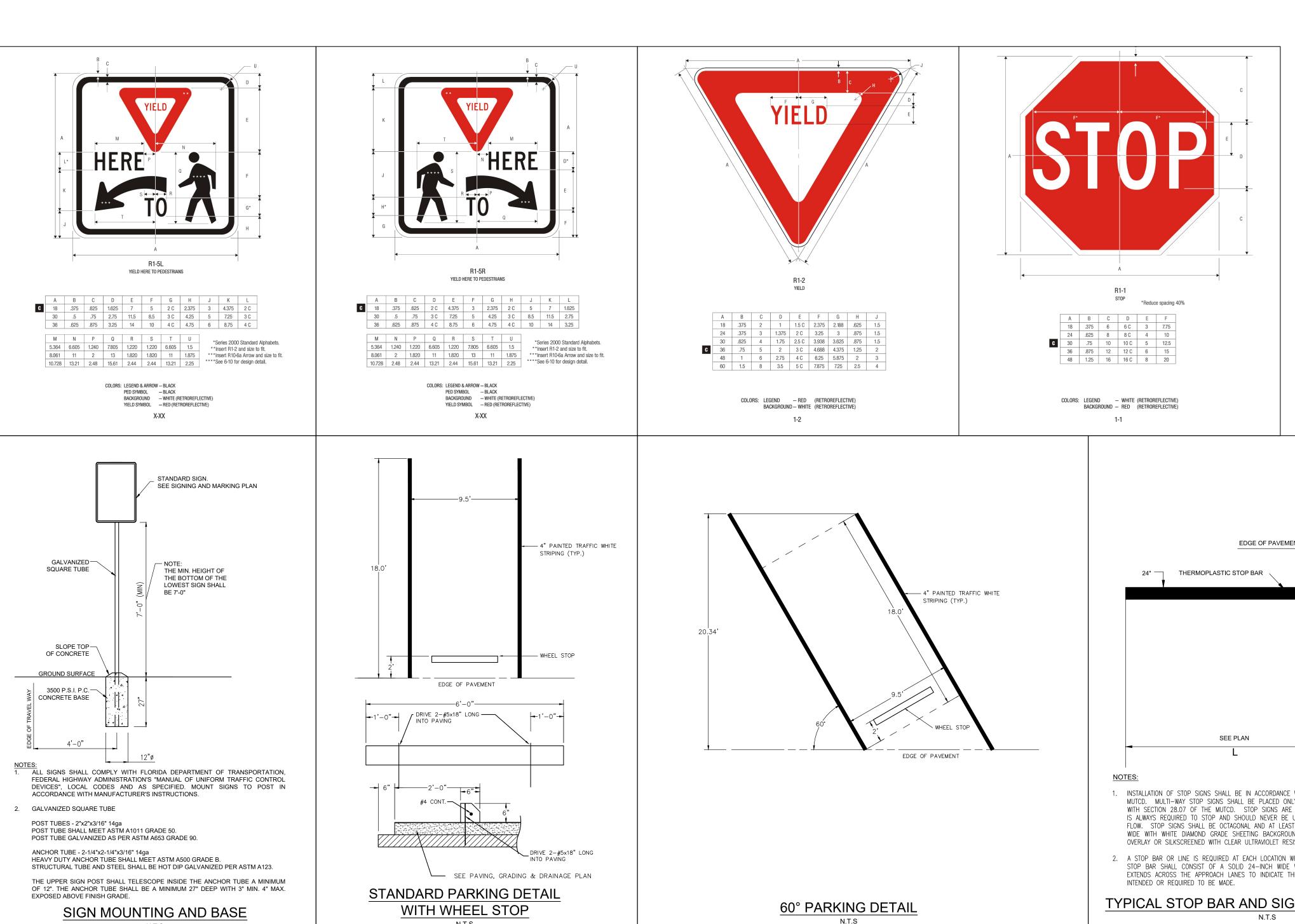
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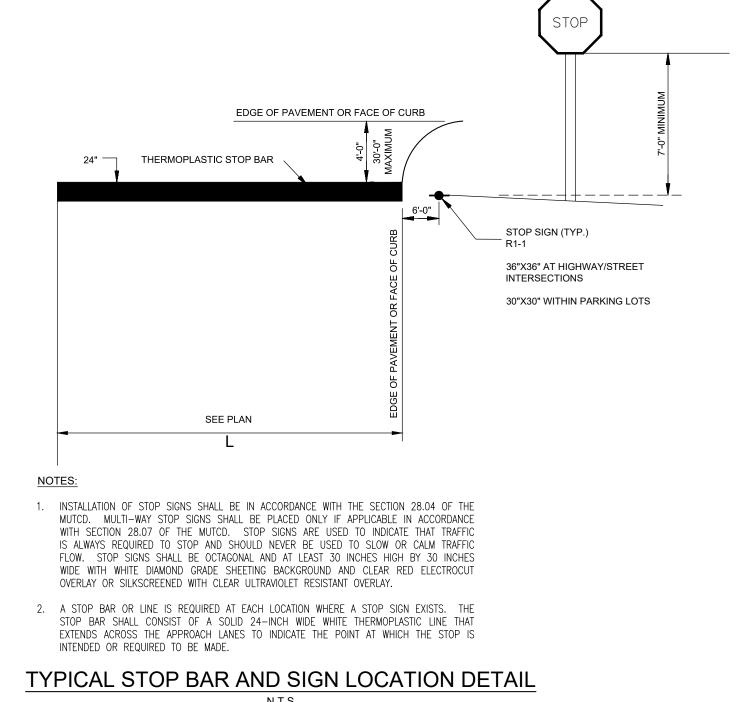
NO. REVISION DATE

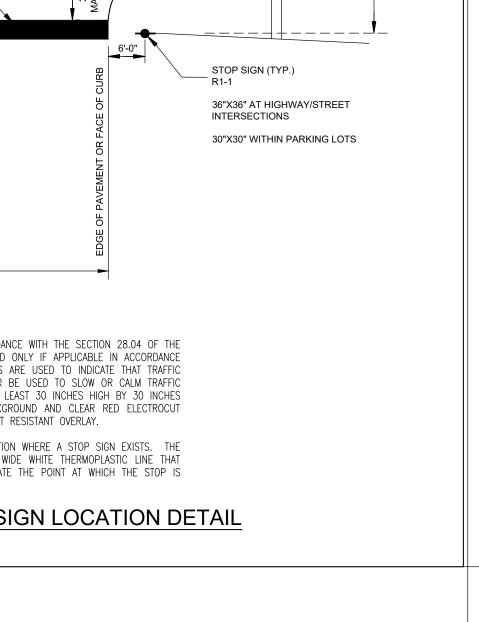
PERMIT SET 06/28/2024

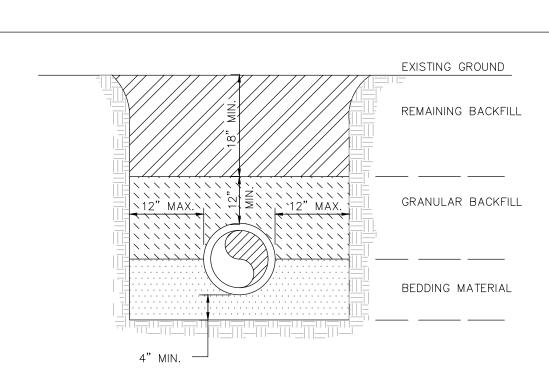
DRAWING TITLE: **Construction Notes** & Details

DRAWN RHO CHECKED OR DATE 06.28.24 SCALE N.T.SAS NOTED PRJCT# P22-339-A2 SHEET:





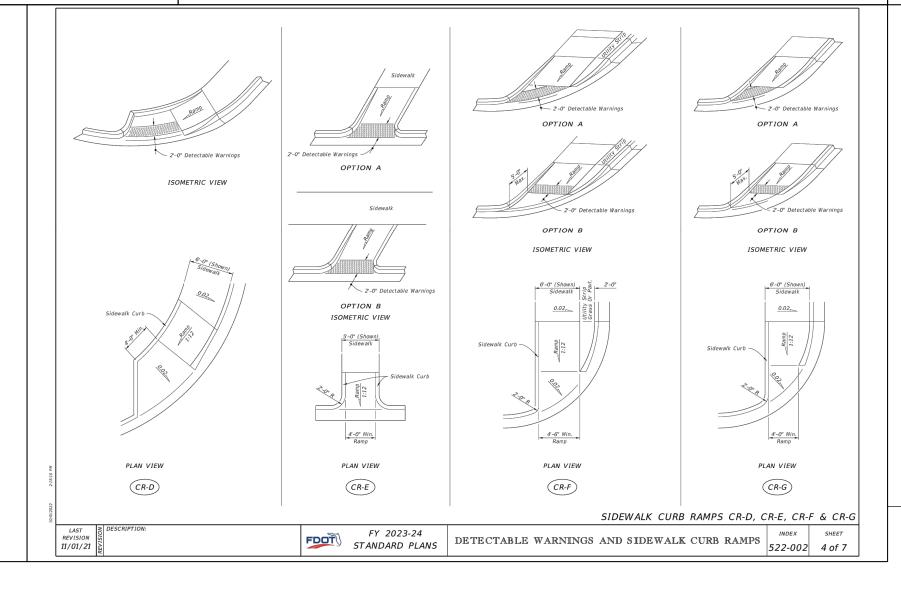


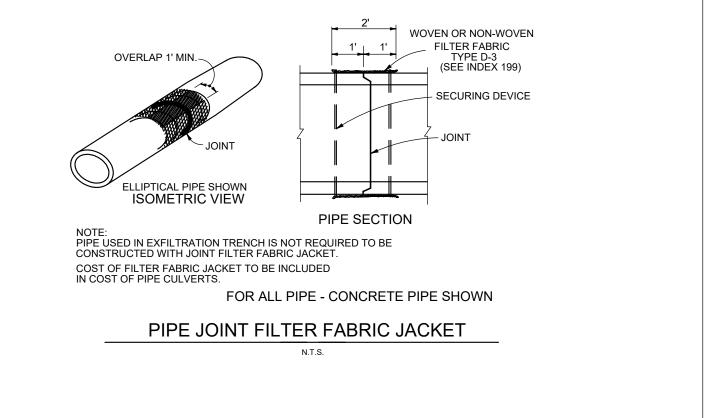


- 1. BEDDING MATERIAL SHALL BE HAND PLACED IN 6" LIFTS AND SHALL CONSIST OF IN-SITU GRANULAR MATERIAL OR WASHED AND GRADED LIMEROCK 3/8"-7/8" SIZING. UNSUITABLE IN-SITU MATERIALS SUCH AS MUCK, DEBRIS AND LARGER ROCK SHALL BE REMOVED.
- 2. THE PIPE SHALL BE FULLY SUPPORTED FOR ITS ENTIRE LENGTH WITH APPROPRIATE COMPACTION UNDER THE PIPE HAUNCHES.
- 3. THE PIPE SHALL BE PLACED IN A DRY TRENCH.
- 4. BACKFILL SHALL BE DONE WITH APPROVED MATERIAL, CLEAN AND FREE OF ROCKS, MUCK AND OTHER DELETERIOUS MATTER AND COMPACTED BENEATH THE HAUNCHES OF THE PIPE USING MECHANICAL TAMPERS TO 100% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.
- 5. BACKFILL TO BE COMPACTED ALONG THE SIDES OF THE PIPE AND TO A POINT ONE FOOT ABOVE THE TOP OF THE PIPE TO 100% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.
- 6. A. WHERE PAVEMENT IS TO BE CONSTRUCTED OVER THE PIPE THE REMAINING BACKFILL SHALL BE COMPACTED IN 12 INCH LAYERS AND COMPACTED TO 95% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180. B. WHERE "NO" PAVEMENT IS TO BE CONSTRUCTED OVER THE PIPE THE REMAINING FILL SHALL BE COMPACTED IN 12 INCH LAYERS TO A DENSITY 90% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
- 7. CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL TRENCH SAFETY REGULATIONS

TYPICAL TRENCH DETAIL

1. Place all pavement messages 25' back from the stop line. All pavement messages must be white except Route Shields and In Pavement Warning Markings. 5. Increase width of route shield for routes with three digits. =PAVEMENT MESSAGE AND ARROW DETAILS= FDOT STANDARD PLANS FY 2023-24 PAVEMENT MARKINGS 711-001 1 of 13







NO. REVISION DATE

PERMIT SET 06/28/2024

CONSULTANT:

Expansion

Lucie ing Ex

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ARCHITECTS

Hall

DRAWING TITLE:

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