

General/Standards

1. Place signing, pavement markings and traffic control devices in accordance with the Manual on Uniform Traffic Control Devices, the plans, FDOT Design Standards, FDOT Plans Preparation Manual (PPM), FHWA Standard Highway Signs, Turnpike Plans Preparation and Practices Handbook (TPPPH), and FDOT Traffic Engineering Manual.

Sign Placement and Installation

2. The Engineer will field verify all sign locations to ensure the sign is properly located and appropriate sign spacing is achieved (i.e., offset from travel lanes, sign post not in ditch bottom, spacing from other signs is adequate, no utility conflicts). The Engineer may make minor adjustments if the sign is not properly located, appropriate sign spacing is not met, or if utility conflicts are discovered. The Engineer of Record must be consulted on major adjustments. In all cases, roadway safety must be increased, not diminished.
3. Prior to the fabrication of frangible sign supports and breakaway sign supports/columns, determine the actual length of the vertical support on the basis of existing field conditions and field elevations.
4. Notify Sunshine State ONE CALL at 1-800-432-4770 and/or the appropriate utility owners in concurrence with Florida Statute 556.
5. Hand dig or vacuum excavate the first four feet of sign foundations.
6. Any work necessary in the shoulder area to construct signs, such as grading, sodding, clearing, and grubbing, is considered incidental to sign installation and is to be included in the cost of the sign assembly.
7. All existing signs not shown on the plans are to remain unless otherwise noted. All existing signs are to remain visible until such time as the proposed sign installation is completed.
8. Remove or cut vegetation as needed to provide adequate sight distance for all overhead and ground mounted signs. Vegetation removal and trimming is included in the unit price of the sign assembly. Do not alter vegetation without prior approval from the Engineer.

Sign Panels /Faces

9. All signs shall be ASTM D4956-09 Type-XI retroreflective sheeting material.
10. Use countersunk screws when using mechanical fasteners to attach sign panels to windbeams, brackets and splice plates for single and multi-post signs.
11. Patch attachment hardware, such as countersunk screws or rivet heads, with retroreflective buttons that match the color and sheeting material of the finished sign panel including the background, legend or border.
12. Ensure the outside corner of sign is concentric with border. Ensure white borders are mounted parallel to the edge of the sign. Ensure black borders are recessed from the edge of the sign.
13. Download the SunPass logo in Microstation format for use in sign fabrication from the Turnpike's Design website: <http://design.floridasturnpike.com/> or obtain the logo by contacting the Turnpike Traffic Plans Engineer at (407) 264-3418. The logo shall not be fabricated by hand cut-out method.

Overlays

14. When using an aluminum sheet overlay, ensure the overlay is a minimum of 0.04 inches thick. Determine the sheeting material of the existing sign and ensure the overlay sheeting type matches the existing sign.
15. When using an adhesive overlay, ensure the overlay is a removable opaque film that adheres to the sign. Ensure the sign face is clean and in good condition. Ensure the removal of the adhesive film does not damage the sign. Use the film overlay 6 months or less. Use 3M Controltac Plus Changeable Graphic Film or equivalent.
16. Where panel overlays are specified, determine and match existing corner radii. Remove all existing overlays prior to proposed overlay installation. The cost is considered incidental and is to be included in the pay item for proposed overlay.
17. For partial panel overlays, ensure all existing copy to be overlaid is completely covered. Ensure the overlay does not cover any portion of the existing copy or border which is to remain visible.
18. Exercise caution while relocating or overlaying existing signs to prevent damage to signs. Verify and match existing letter sizes and fonts for signs that require overlays prior to fabrication of new panel.

Overhead Signs

19. Align the far edge of the sign panel, furthest from the upright, flush with the end of the horizontal chord of the cantilever structure.

Sign Panel Replacement

20. As part of sign panel replacements, include new vertical hanger beams, new horizontal wind beams, new bolts, new screws, new nuts, new washers, and all necessary hardware for a complete connection between the new sign panel and the existing sign structure.

Sign Luminaires

21. Energize sign luminaires within 24 hours of overhead lighted sign installation.

22. "Night Aim" the sign luminaires to ensure proper illumination of the sign surface. The luminaires must be at an angle sufficient to prevent them from shining into the faces of drivers who are traveling in the opposite direction.

23. Ensure sign luminaires are similar or equal to Infinity, or other UL listed wet proof induction sign luminaire capable of accepting 120 to 480 volts without an external transformer. Clearly note the luminaire tilt angle for each sign and ensure the same for all luminaires on each specific sign. Place the angle convention detail on submittals to clearly depict tilt orientation. Use the following values for each area classification: 5-10 foot-candles (low); 10-20 foot-candles (medium); 20-40 foot-candles (high). Ensure the maximum/minimum uniformity value does not exceed 6:1 ratio. These values are average initial, use a maintenance factor of 1.00 in the calculations process.

24. Install the luminaires as per the spacing produced in the scaled photometric documentation and sign data instruction obtained from the contract documents. Should any deviations take place from these documents, provide photometric calculations to scale complying with the above parameters and submit documentation to the Engineer of Record prior to proceeding.

25. Top mounted luminaires are prohibited on the mainline or ramps.

Logo Signs

26. At or in advance of interchanges, the blue specific service signs with gas, food, or lodging logo panels attached are owned and maintained by Florida Logos, Inc. All work associated with removing, storing or relocating the service signs is the responsibility of Florida Logos, Inc. At least 14 calendar days prior to any conflicts between anticipated construction work and the blue specific service signs, coordinate with Florida Logos, Inc. by telephone at 1-888-608-0833.

27. *At or in advance of Turnpike service plazas, the blue specific service signs with gas, food or other logo panels attached are owned and maintained by Florida's Turnpike Enterprise.*

Pavement Marking and Reflective Pavement Markers

28. Ensure the proposed pavement markings at all existing/proposed interface locations match the existing pavement markings in terms of alignment. Remove conflicting pavement markings.

29. Work that includes extending or refurbishing of existing striping damaged during construction is included in the unit price of the pavement marking.

30. Pavement marking may be adjusted slightly as directed by the Engineer.

31. Lay out permanent final striping that leaves no visible marks at time of final acceptance.

32. Place a green RPM 4" outside of ground in rumble strip at each mile marker.

33. When removing pavement messages via water blasting, the entire area within the pavement message, including the interior of the message that is not painted or have thermoplastic, shall be water blasted so that the message outline is completely obliterated and drivers are not able to read or see the scar outlining the former message.

REVISIONS							STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			GENERAL NOTES	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		101-1

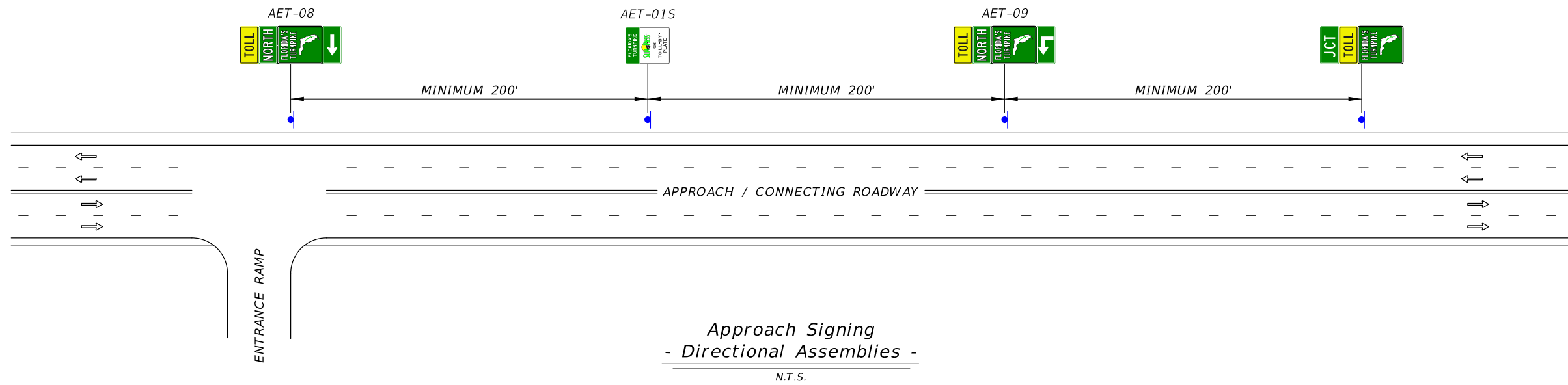
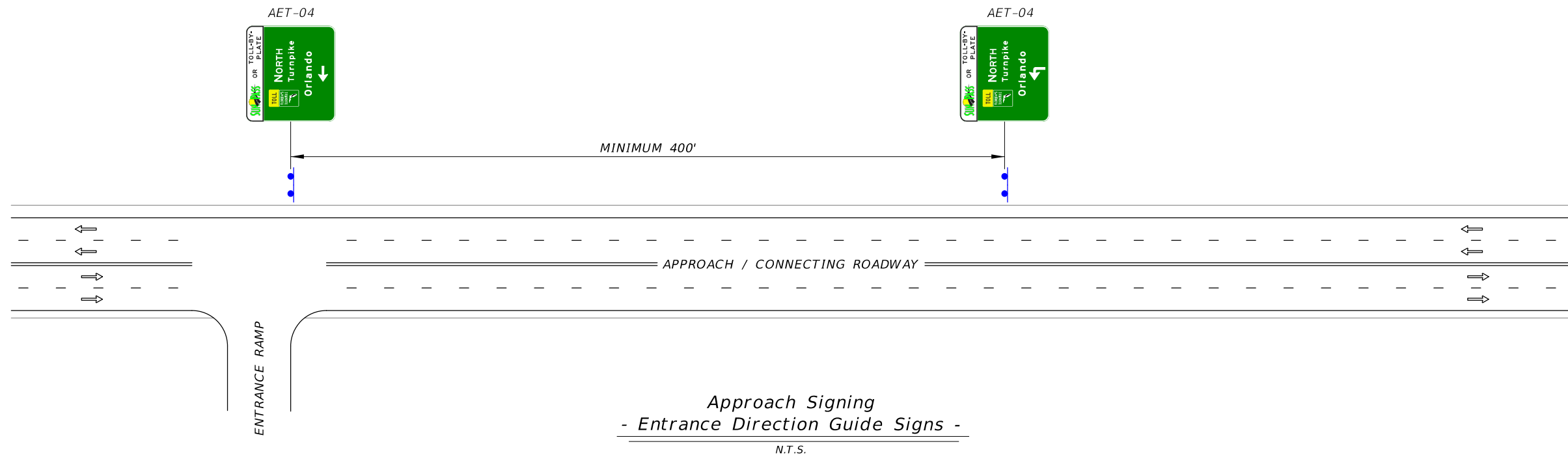
Notes to Designers (not to be included in plan set general notes sheet)

1. The following notes have been commonly used as general notes in plans; however, these notes duplicate the FDOT Standard Specifications for Road and Bridge Construction.
 - A. Restore any disturbed areas to its original condition. (Duplicates 4-6 and 7-II)
 - B. Replace existing striping to remain which is damaged or obliterated by construction activities. (Duplicates 7-II)
 - C. The damaged sign shall be replaced at no cost to the Department.
2. The designer should verify that the proposed sign panel size conforms to the FDOT Standard Index drawings with regards to vertical hangers, wind beams, and luminaire arms. If not, special design and details should be provided in the S&PM plans.
3. Sign Luminaires notes 21-25 shall apply only when external lighting of overhead signs is required per the PPM.
4. If a panel is being replaced on an existing structure that has other panels with luminaires, either replace all panels and remove luminaires or maintain the luminaires with the new panel, so that all panels are consistent on the structure. When the lighting is removed, it should be removed to the pull box and any ancillary equipment, including but not limited to conduit, arms and brackets, should be removed as well.

Notes to Designers for Express Lanes:

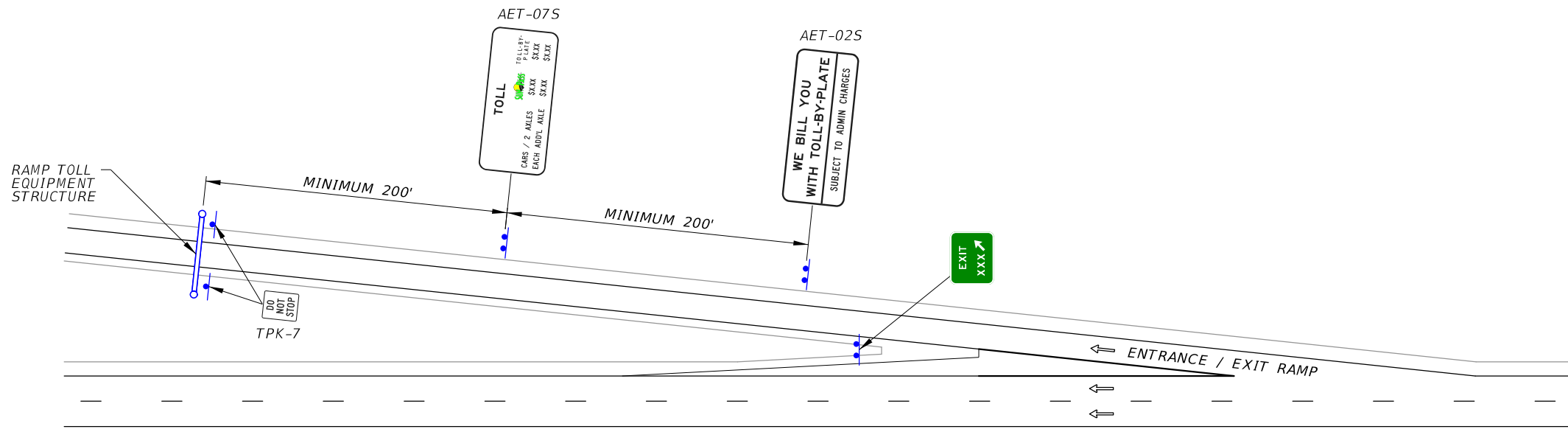
1. The sign structures shall be designed for three (3) destinations on the Toll Rate sign, regardless of how many destinations are shown on the sign.
2. Each exit out of the express lane (destination) shall be shown on the sign.
3. The Toll Violation message shall be shown on the Toll Rate Sign.
4. The signing sequence shall contain the following: three (3) Advance Guide Signs, two (2) Toll Rate Signs, one (1) Vehicle Eligibility Sign and one (1) three-line Full Color, Full Matrix DMS. If space permits, include a 2-mile advanced guide sign in the sequence.
5. The three (3) required advanced guide signs shall have a one-line DMS, which shall be full color.
6. The DMS brick embedded into the toll rate sign shall be full color and be able to display seven (7) to nine (9) characters, 18" in height.
7. The express lane signs should be overhead and over the corresponding lanes. The Advance Signing Layout diagrams are a guide for placement. Sign structures can be located on either side of the road or on a span. Roadway conditions determine the type of structure.
8. Any ramp toll rate signs (direct connect or park-and-ride) may be mounted on multi-posts.
9. For direct connect access into the express lanes, the sequence can be adjusted to have one (1) toll rate sign, with a one-line DMS. The one-line DMS will serve as a backup for the provided toll rate. This DMS shall have separate power and separate communication.
10. The static portion of the sign panel and the one-line DMS should be the same width.
11. The "Additional Toll" message shown on the Toll Rate Signs only applies to toll facilities where there is a General Toll Lane next to the Express Lanes.

REVISIONS							STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			GENERAL NOTES	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		101-2



- NOTES:
- SIGNING OF CONNECTING ROADWAY TO TURNPIKE SHALL CONFORM TO MUTCD SECTION 2E.49 AND INCLUDE THE ADDITIONAL ALL ELECTRONIC TOLLING SIGN (AET-01S) SHOWN IN THESE TYPICAL LAYOUT DRAWINGS.
 - MINIMUM SPACING DISTANCES FOR SIGNS TO CONFORM TO THE TRAFFIC ENGINEERING MANUAL, RULE CHAPTER 14-51.014, TABLE 2.
 - LEGENDS/MESSAGES SHOWN ON SIGNS AET-04 ARE PROVIDED AS AN EXAMPLE ONLY. ACTUAL DESIGNS SHALL BE SHOWN IN THE PLANS.

REVISIONS							STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ALL ELECTRONIC TOLLING CONNECTING ROADWAYS TYPICAL SIGNING LAYOUT	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		102-1



Entrance / Exit Ramp Signing
With Toll Equipment Structure

N.T.S.

NOTES:

1. MINIMUM SPACING DISTANCES FOR SIGNS SHALL CONFORM TO THE TRAFFIC ENGINEERING MANUAL AND F.A.C. RULE CHAPTER 14-51.014, TABLE 1.
2. TWO TPK-7 (DO NOT STOP) SIGNS ARE REQUIRED PER DIRECTION OF TRAVEL.

8/12/2015

REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ALL ELECTRONIC TOLLING ENTRANCE/EXIT RAMP TYPICAL SIGNING LAYOUT	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					
						ROAD NO.	COUNTY	FINANCIAL PROJECT ID		102-2

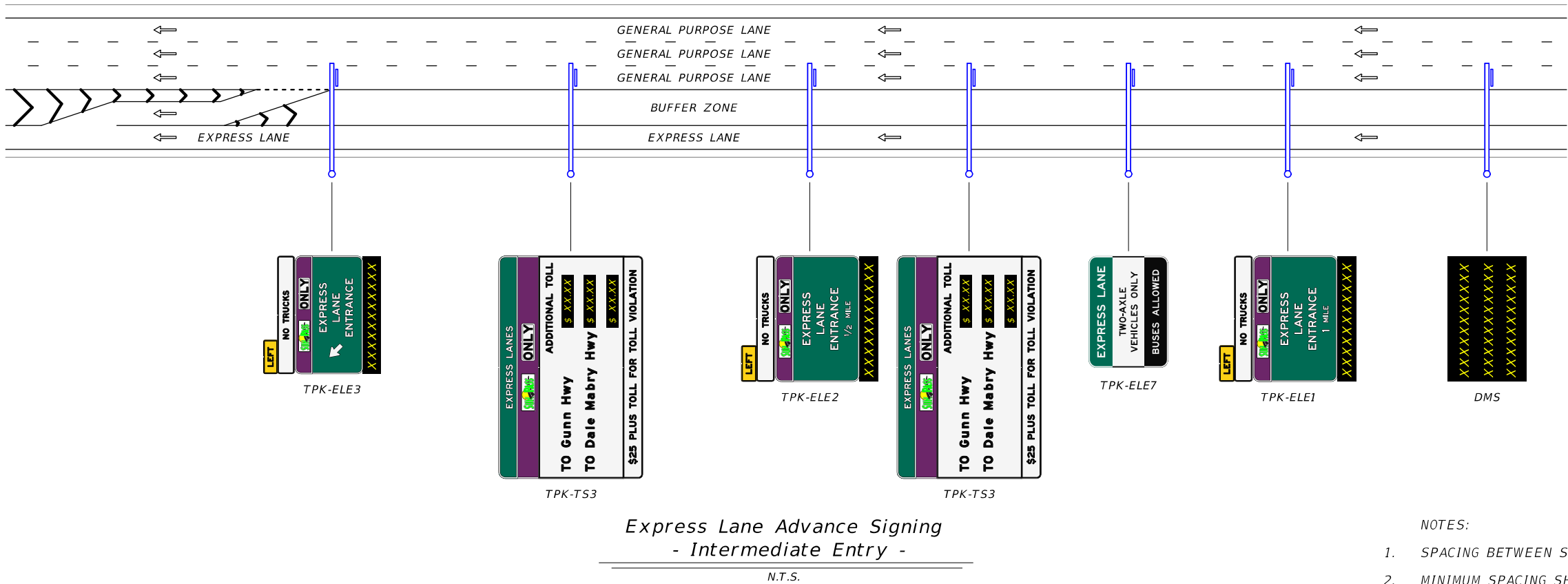
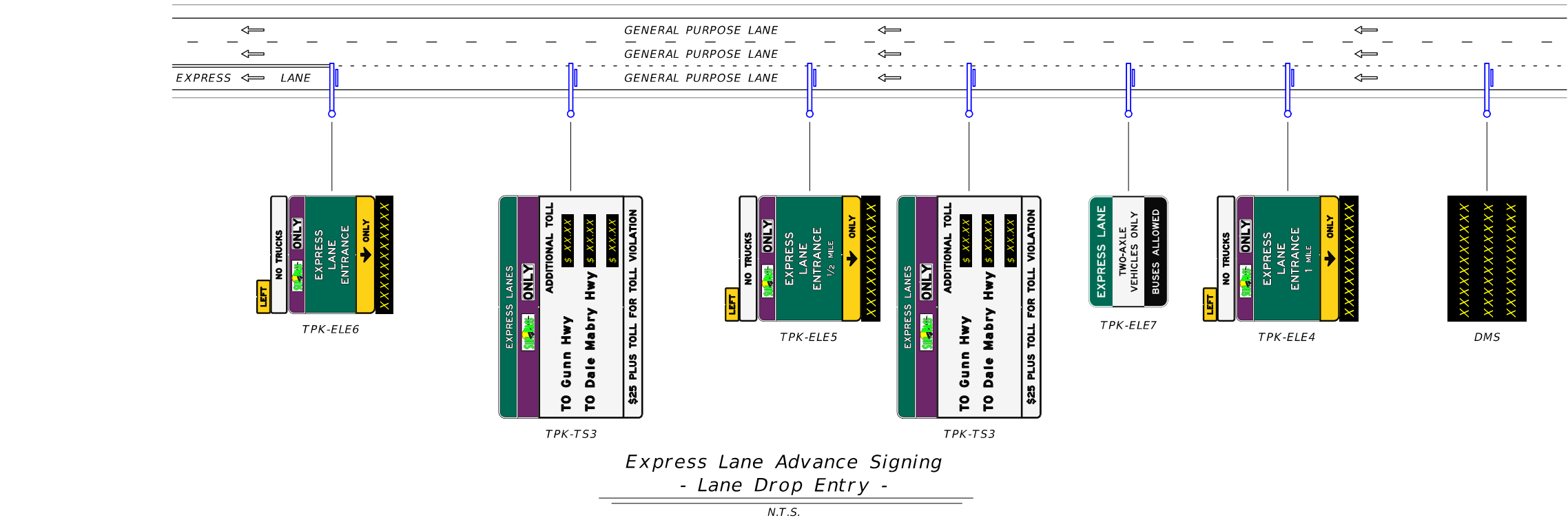


N.T.S.

1. MINIMUM SPACING DISTANCES FOR SIGNS SHALL CONFORM TO THE TRAFFIC ENGINEERING MANUAL AND F.A.C. RULE CHAPTER 14-51.014, TABLE 1.
2. TWO TPK-7 (DO NOT STOP) SIGNS ARE REQUIRED PER DIRECTION OF TRAVEL.

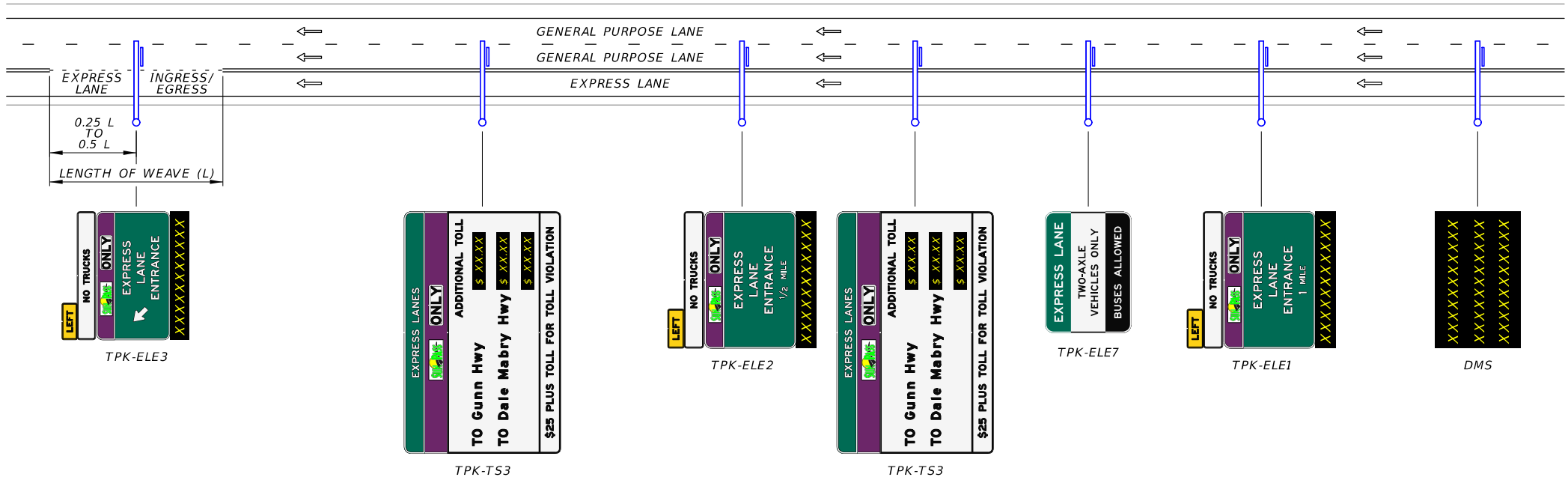
8/12/2015

8/12/2015



- NOTES:
1. SPACING BETWEEN SIGNS MAY VARY.
 2. MINIMUM SPACING SHALL BE 800 FEET.
 3. SEE SHEET 106-1 FOR BUFFER ZONE DETAIL.
 4. SEE SHEET 107-x FOR INGRESS/EGRESS DETAIL.

REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			EXPRESS LANE ADVANCE SIGNING LAYOUT	SHEET NO. 104-I
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					
						ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



Express Lane Advance Signing
- Intermediate Ingress / Egress -
N.T.S.

- NOTES:
- 1. SPACING BETWEEN SIGNS MAY VARY.
 - 2. MINIMUM SPACING SHALL BE 800 FEET.

REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			EXPRESS LANE ADVANCE SIGNING LAYOUT	SHEET NO. 104-2
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					
						ROAD NO.	COUNTY	FINANCIAL PROJECT ID		

[illegible]

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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[illegible]

SIGN NAME		TPK-LES3	QTY	1	SIGN NUMBER	STATIONS
PANEL			BORDER		none	
WIDTH	17'-6"	WIDTH	2"			
HEIGHT	12'-0"	RADII	12"			
LEGEND	White	COLOR	White			
COLOR	Green					
SYMBOL(S)		ANGLE	X	Y	WID	HT
FTP-1B-06		0	60.1	48	46.2	42
AR_Type A		315	163.1	41.2	22.2	35
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE			AVERAGE LENGTH



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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[illegible][illegible]

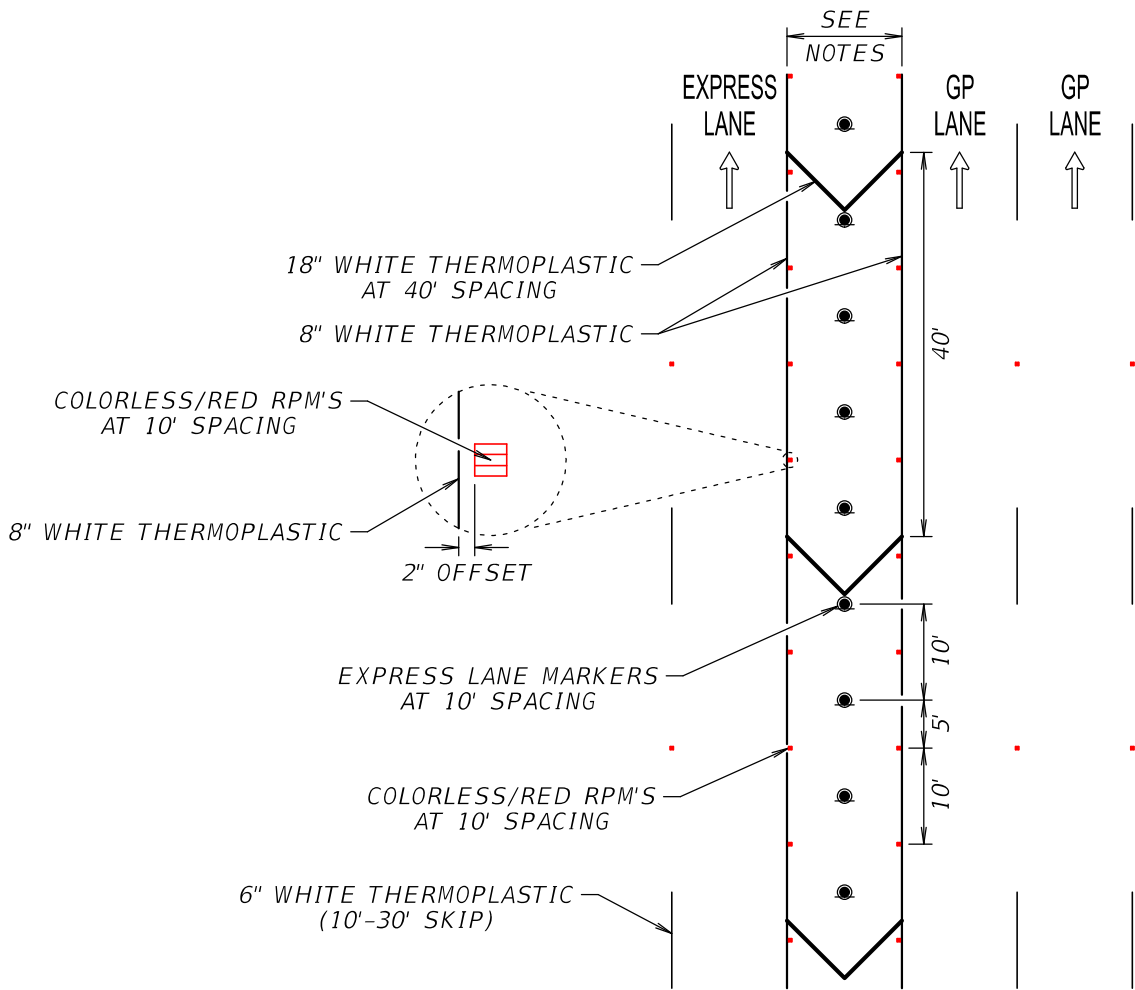
NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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[illegible][illegible]

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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[illegible]

REVISIONS							STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			EXPRESS LANE SIGN PANELS	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		105-3
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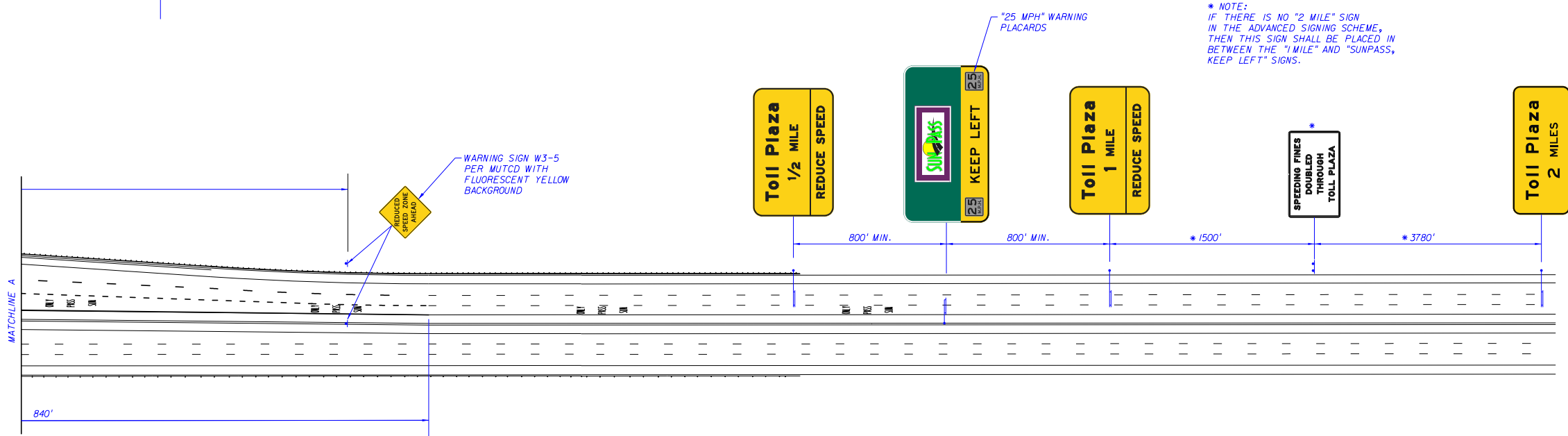
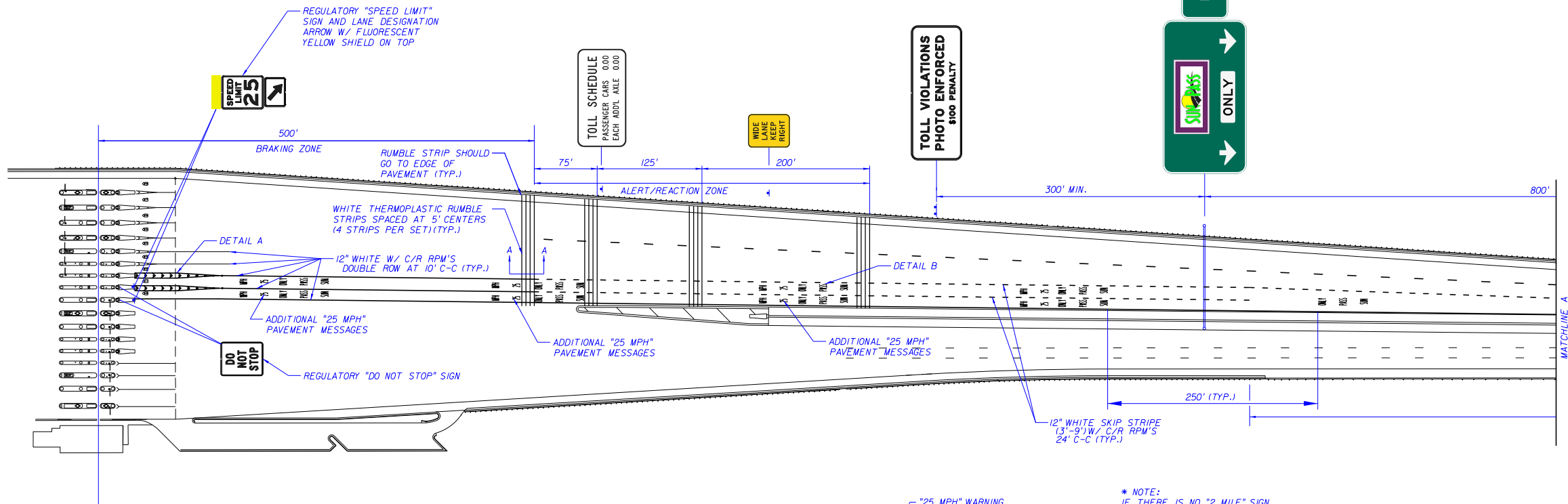
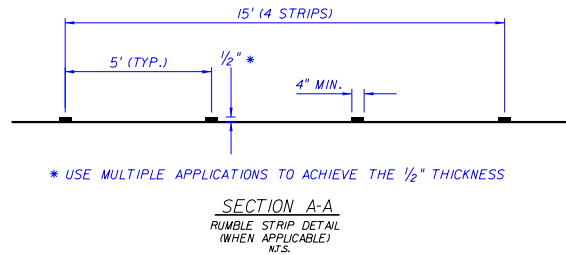
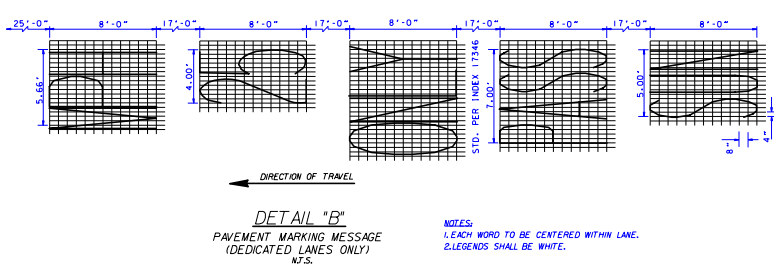
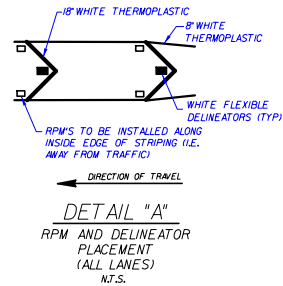
- NOTES:
- BUFFER WIDTH VARIES.
MINIMUM BUFFER WIDTH IS 2'.
 - OMIT 18" WHITE CHEVRON WHEN
BUFFER WIDTH IS LESS THAN 12'.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID

EXPRESS LANE BUFFER ZONE DETAIL	SHEET NO.
	106-1



N.T.S.

MAIN LINE PLAZA NOTES:

1. ALL RPM'S SHALL BE PLACED ON THE ISLAND SIDE OF THE ADJACENT EDGELINES.
2. PAVEMENT MARKINGS MAY BE ADJUSTED SLIGHTLY AS DIRECTED BY THE ENGINEER.
3. FLEXIBLE DELINEATORS SHALL BE 48\"/>

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

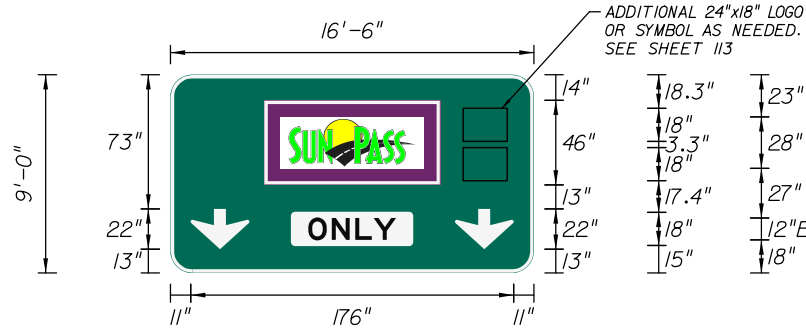
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID

DUAL DEDICATED MAINLINE
TOLL PLAZA SIGNING AND
PAVEMENT MARKING LAYOUT

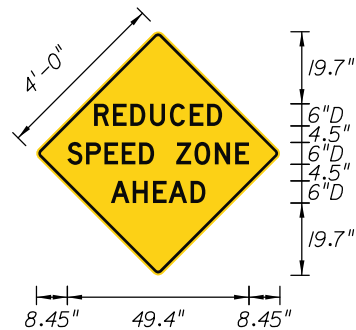
SHEET
NO.

108-1

SIGN NAME		TPK-AS3	QTY	I	SIGN NUMBER	STATION(S)
PANEL		BORDER				
WIDTH	16'-6"	WIDTH	2"			
HEIGHT	9'-0"	RADII	12"			
LEGEND	White	COLOR	White			
COLOR	Green					
SYMBOL(S)	ANGLE	X	Y	WID	HT	
OtherETC	0	159.5	71.7	24	18	
SunPassLarge	0	60	57	78	28	
OtherETC	0	159.5	50.3	24	18	
LogoPanelLarge	0	51	48	96	46	
ARDOWN	0	11	13	32	22	
ARDOWN	0	155	13	32	22	
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH	



NO. OF LIGHT FIXTURES		FIXTURE SPACING		PHOTOMETRIC CURVE		WATT		VOLTAGE	
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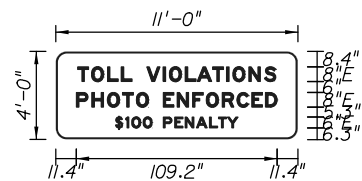
NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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[illegible]

SIGN NAME		TPK-VI	QTY	I	SIGN NUMBER	STATION(S)
PANEL			BORDER			
WIDTH	16'-0"	WIDTH	2"			
HEIGHT	6'-0"	RADII	12"			
LEGEND	Black	COLOR	Black			
COLOR	White					
SYMBOL(S)	ANGLE	X	Y	WID	HT	
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH	



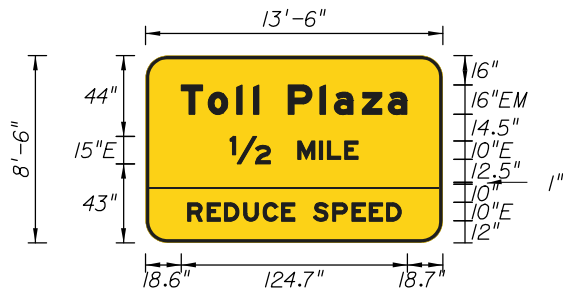
NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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[illegible][illegible]

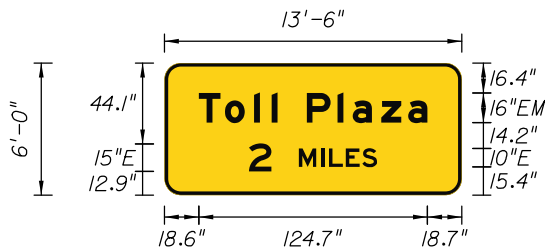
NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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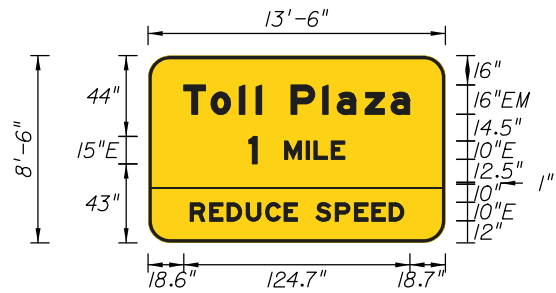
<i>REVISIONS</i>					STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<i>TOLL PLAZA SIGNING DETAILS MAINLINE APPROACH SIGN PANELS</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		108-3

[illegible]

NO. OF LIGHT FIXTURES		FIXTURE SPACING		PHOTOMETRIC CURVE		WATT		VOLTAGE	
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[illegible][illegible]

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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[illegible][illegible]

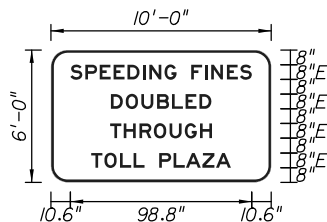
NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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[illegible][illegible]

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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[illegible]

REVISIONS					STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TOLL PLAZA SIGNING DETAILS MAINLINE APPROACH SIGN PANELS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		108-4

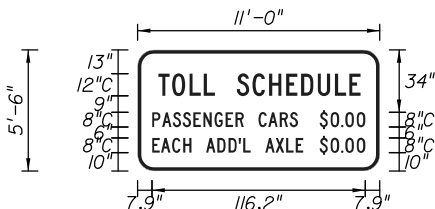
[illegible]

FOR RAMP OR MAINLINE									
NO. OF LIGHT FIXTURES		FIXTURE SPACING		PHOTOMETRIC CURVE		WATT		VOLTAGE	

[illegible][illegible]

NOTES:

1. AMOUNT \$0.00 IS FOR SPACING PURPOSES ONLY. PROPER TOLL AMOUNT SHALL BE SHOWN IN PLANS.

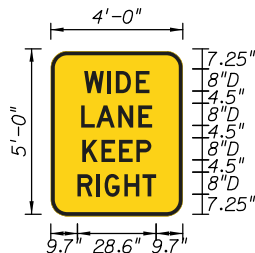


RAMP APPLICATION							
NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE			

[illegible][illegible]

NOTES:

1. ALTERNATE MESSAGE FOR "RIGHT" IS SHOWN ON LINE 6

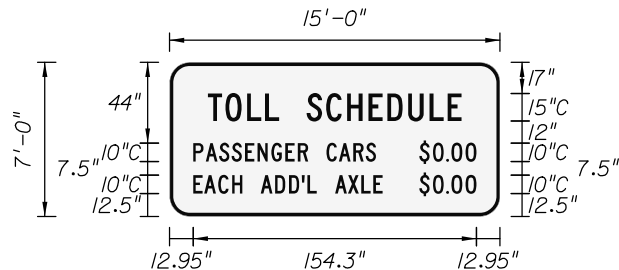


FOR RAMP OR MAINLINE									
NO. OF LIGHT FIXTURES		FIXTURE SPACING		PHOTOMETRIC CURVE		WATT		VOLTAGE	

[illegible][illegible]

NOTES:

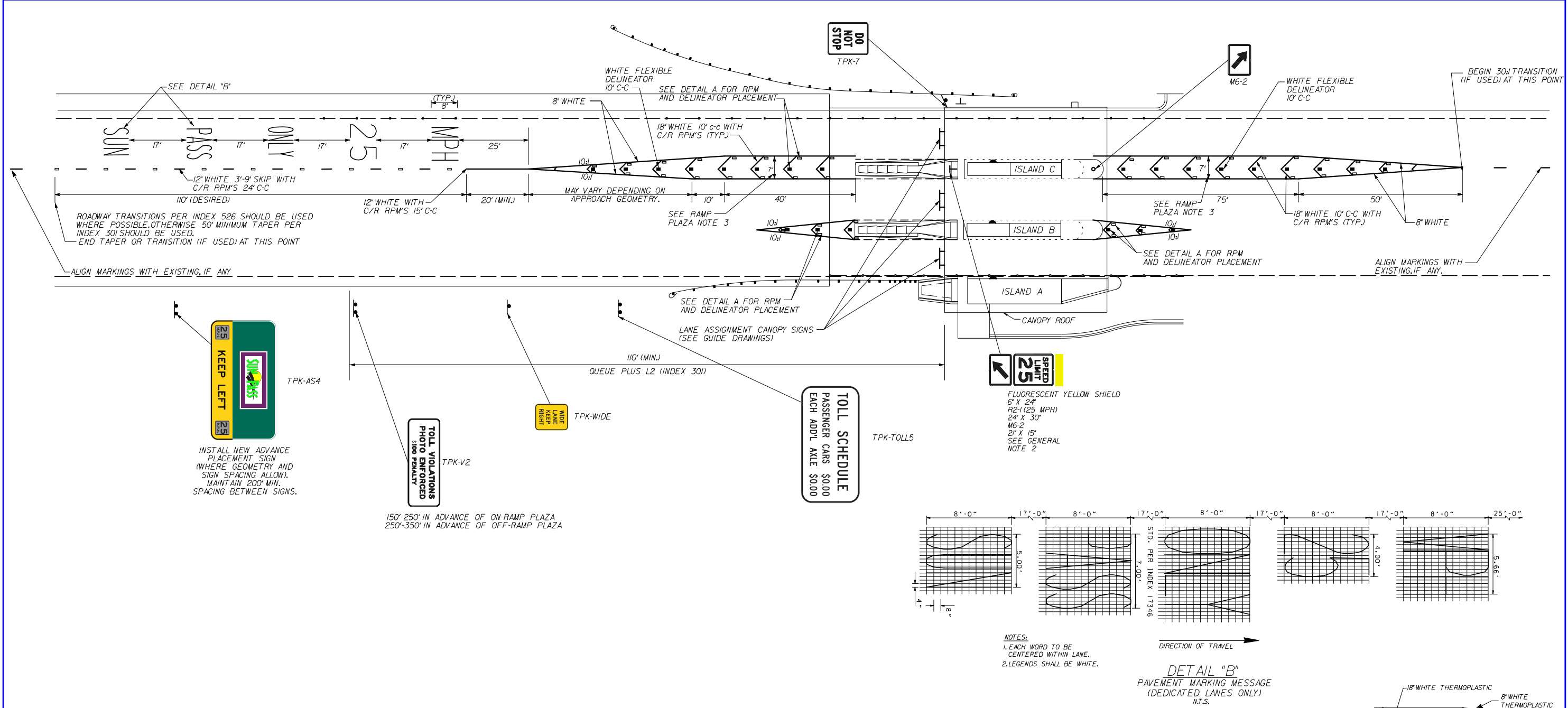
1. AMOUNT \$0.00 IS FOR SPACING PURPOSES ONLY. PROPER TOLL AMOUNT SHALL BE SHOWN IN PLANS.



MAINLINE APPLICATION							
NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE		WATT		VOLTAGE	

[illegible]

REVISIONS					STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TOLL PLAZA SIGNING DETAILS APPROACH SIGN PANELS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		

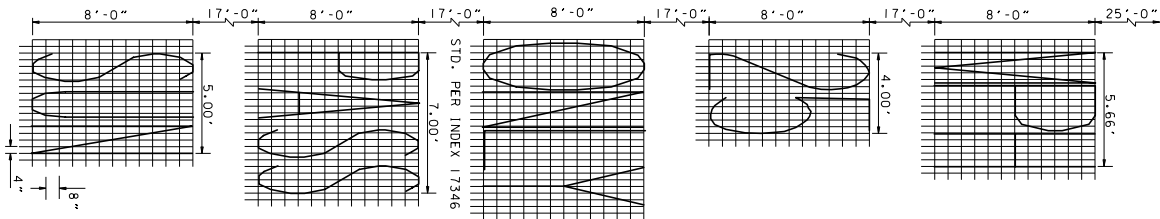


GENERAL NOTES:

- 1. ALL RPM'S SHALL BE PLACED ON THE ISLAND SIDE OF THE ADJACENT EDGELINES.
- 2. INSTALL 24"x30" SPEED LIMIT SIGN W/21" X 15" M6-2L PANEL ON UPPER PART OF CONCRETE ISLAND UPSTREAM OF BOOTH. SIGN SHALL BE MOUNTED CENTERED ON ISLAND WITH A 7' CLEARANCE UNDER SIGN TO PAVEMENT. SIGN SHALL BE ROTATED 22 1/2 DEGREES TOWARDS DEDICATED SUNPASS LANE OR AS DIRECTED BY THE ENGINEER.
- 3. SUNPASS SIGNS CAN BE DOWNLOADED FROM:
<http://www.floridasturnpike.com/design/prod design/traffic/trafficguidedrawings.html>
- 4. PAVEMENT MARKINGS MAY BE ADJUSTED SLIGHTLY AS DIRECTED BY THE ENGINEER.
- 5. TOLL COLLECTOR WARNING SIGNS SHALL BE FURNISHED AND INSTALLED (ANCHOR BOLTED) ON THE ISLAND BARRIER WALL AND ON BOOTH FACING EACH STAIRWELL OR WALKWAY ACROSS ISLAND. SIGNS ATTACHED TO BOOTH SHALL BE FASTENED WITH STAINLESS STEEL SCREWS. PLACEMENT SHALL PROVIDE OPTIMUM VISIBILITY.
- 6. FLEXIBLE DELINEATORS SHALL BE 48" HIGH, WHITE WITH 3" X 12" REFLECTIVE STRIP. THE DELINEATOR SHALL BE SURFACE MOUNTED ON EXISTING PAVEMENT.

RAMP PLAZA NOTES:

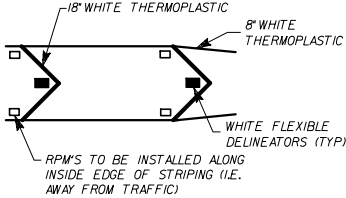
- 1. LEFT SIDE DEDICATED LANE SHALL BE MIRROR-IMAGE OF THIS EXHIBIT.
- 2. TOLL COLLECTOR SIGNS SHALL BE INSTALLED ON ISLANDS BORDERING DEDICATED USE SUNPASS LANES ONLY.
- 3. FOR A DEDICATED LANE ON THE OUTSIDE OF THE PLAZA AND WITH AN EXISTING LANE WIDTH OF TWELVE FEET OR GREATER, THE CHANNELIZATION ISLAND SHALL BE WIDENED ONE FOOT FROM WHAT IS SHOWN ABOVE TO PROVIDE A MINIMUM STRIPED LANE WIDTH OF ELEVEN FEET.
- 4. FOR A DEDICATED LANE IN THE INTERIOR OF THE PLAZA AND WITH AN EXISTING LANE WIDTH OF TWELVE FEET OR GREATER, THE ADJACENT CHANNELIZATION ISLANDS SHALL BE WIDENED TO NARROW THE DEDICATED LANE TO TEN FEET.



NOTES:
1. EACH WORD TO BE CENTERED WITHIN LANE.
2. LEGENDS SHALL BE WHITE.

DIRECTION OF TRAVEL

DETAIL "B"
PAVEMENT MARKING MESSAGE
(DEDICATED LANES ONLY)
N.T.S.



DETAIL "A"
RPM AND DELINEATOR
PLACEMENT
(ALL LANES)
N.T.S.

N.T.S.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID

RAMP TOLL PLAZA TYPICAL SUNPASS SIGNING AND PAVEMENT MARKINGS

SHEET NO.
108-6

SIGN NAME	TPK-AS4	QTY	I	SIGN NUMBER	STATION(S)
PANEL	BORDER				
WIDTH	12'-6"	WIDTH	2"		
HEIGHT	9'-0"	RADII	12"		
LEGEND	White	COLOR	White		
COLOR	Green				
SYMBOL(S)	ANGLE	X	Y	WID	HT
OtherETC	0	122.8	73	20	15
SunPassSmall	0	41.5	59	67	24
OtherETC	0	122.8	54	20	15
LogoPanelSmall	0	32.5	50	85	42
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH

NOTE:
1. ALTERNATE MESSAGES ALSO SHOWN ON LINE 3, 4, 5.

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY		K	E	E	P		L	E	F	T		L								
SPACE	34.3	9.9	9.5	9.5	8.1	10	9.2	9.5	8.3	7.5	34.2	81.5								
COPY																				
SPACE																				
COPY		K	E	E	P		R	I	G	H	T		L							
SPACE	30.6	9.9	9.5	9.5	8.1	10	10.1	4.1	10.4	9.8	7.5	30.5	88.9							
COPY		C	E	N	T	E	R		L	A	N	E		L						
SPACE	22.6	10.4	9.5	9.8	9.2	9.5	8.1	10	8.3	11.9	10.7	7.5	22.5	104.9						
COPY		A	H	E	A	D		L												
SPACE	49.4	11.9	10.7	8.6	11.9	8.1	49.4	51.2												
COPY																				
SPACE																				

SIGN NAME		QTY	I	SIGN NUMBER	STATION(S)
PANEL	BORDER				
WIDTH	WIDTH				
HEIGHT	RADII				
LEGEND	COLOR				
COLOR					
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH
NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE	
COPY					
SPACE					
COPY					
SPACE					
COPY					
SPACE					
COPY		K	E	E	P
SPACE	30.2	10.2	9.4	9.4	8
COPY		C	E	N	T
SPACE	22.9	10	9.4	10	9.4
COPY		A	H	E	A
SPACE	49.3	12.1	10.5	8.7	12.1

SIGN NAME	TPK-TOLL8	QTY	I	SIGN NUMBER	STATION(S)
PANEL	BORDER				none
WIDTH	12'-0"	WIDTH	2"		
HEIGHT	7'-6"	RADII	12"		
LEGEND	Black	COLOR	Black		
COLOR	Flourescent Yellow				
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY		T	o	I	I		P	I	a	z	a		L							
SPACE	20.2	11.8	13.2	8	2.7	13.3	14	6.8	13	12.1	8.8	20.1	103.7							
COPY		A	H	E	A	D		L												
SPACE	41.3	14.3	12.8	10.3	14.3	9.7	41.3	61.4												
COPY		R	E	D	U	C	E		S	P	E	E	D		L					
SPACE	14.3	10.1	9.5	10.4	10.4	10.4	7.5	10	10.1	9.8	9.5	9.5	8.1	14.4	115.3					
COPY																				
SPACE																				
COPY																				
SPACE																				
COPY																				
SPACE																				

SIGN NAME		QTY	I	SIGN NUMBER	STATION(S)
PANEL	BORDER				
WIDTH	WIDTH				
HEIGHT	RADII				
LEGEND	COLOR				
COLOR					
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH
NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE	
COPY					
SPACE					
COPY					
SPACE					
COPY					
SPACE					
COPY					
SPACE					
COPY					
SPACE					
COPY					
SPACE					
COPY					
SPACE					

8/12/2015

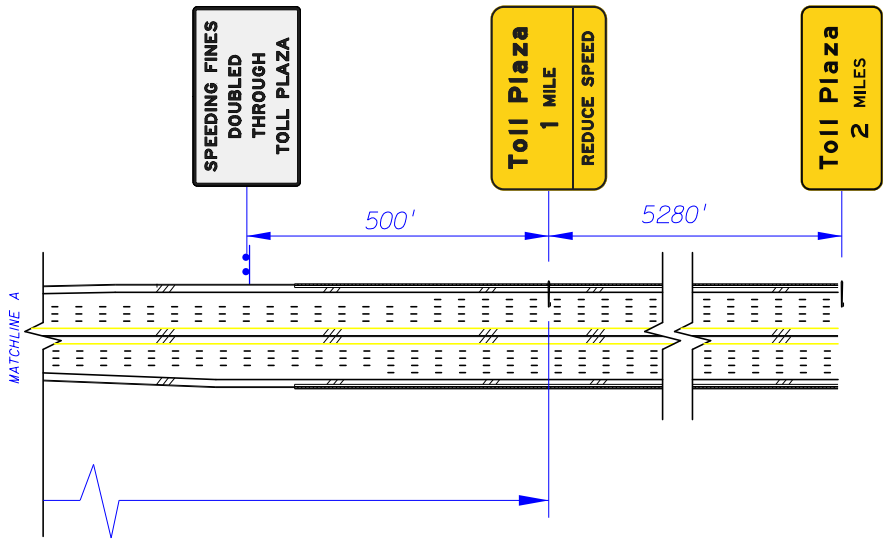
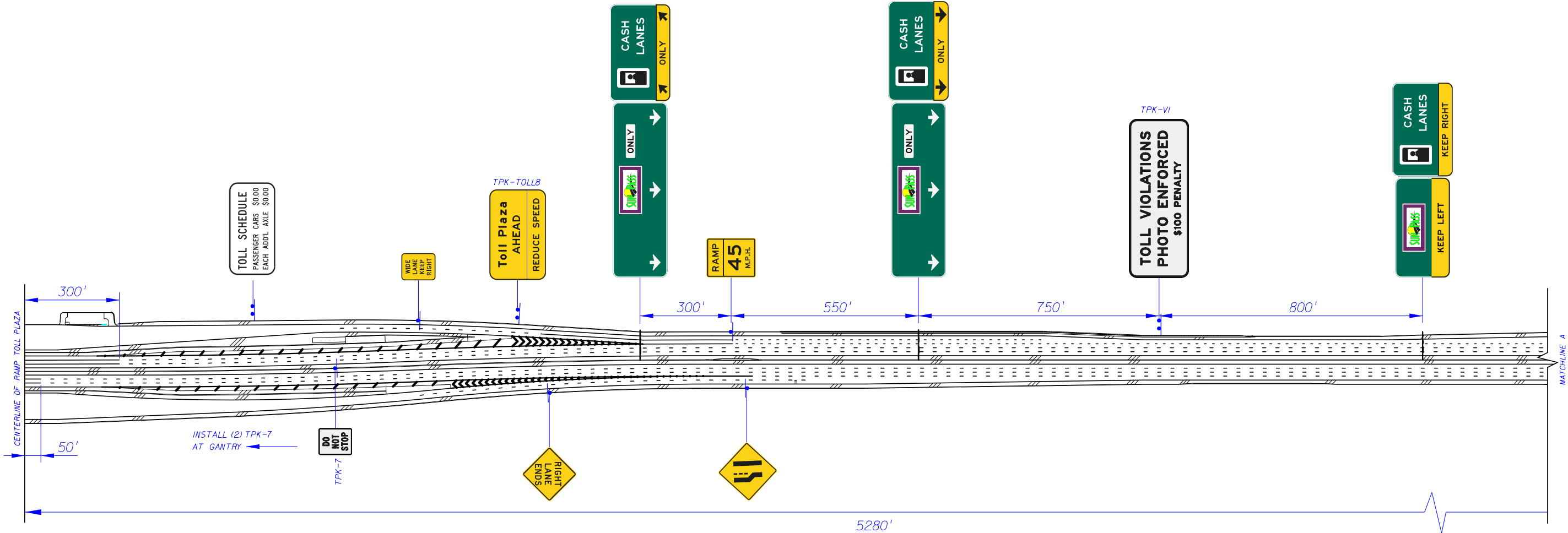
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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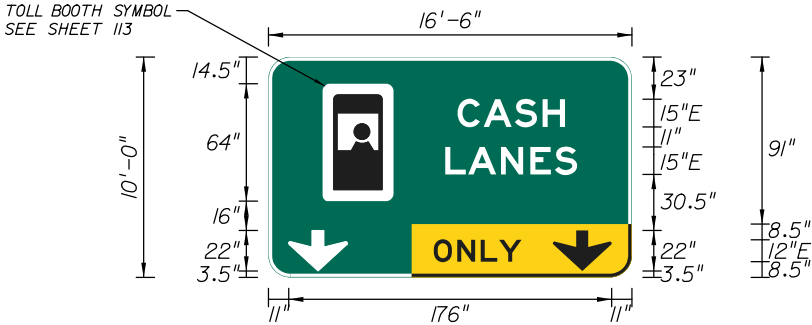
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID

ORT MAINLINE TOLL PLAZA SIGNING LAYOUT	SHEET NO.
	109-1

N.T.S.



SIGN NAME	TPK-CPX4	QTY	I	SIGN NUMBER	STATION(S)
PANEL		BORDER			
WIDTH	16'-6"	WIDTH	2"		
HEIGHT	10'-0"	RADII	12"		
LEGEND	Wht,Blk	COLOR	White		
COLOR	Green/Flourescent Yellow				
SYMBOL(S)	ANGLE	X	Y	WID	HT
TB_ADV	0	29.8	41.5	38	64
ARDOWN	0	11	3.5	32	22
ARDOWN	0	155	3.5	32	22
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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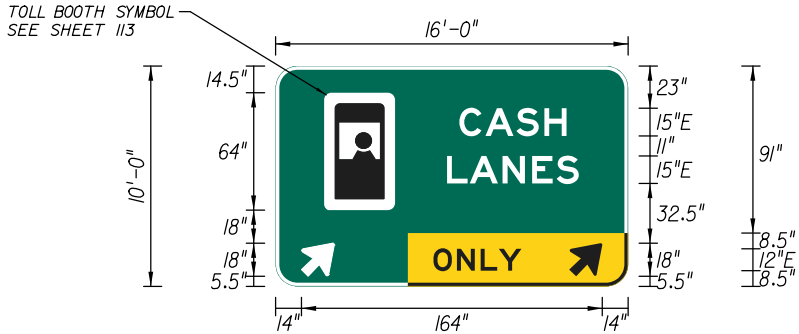
COPY		C	A	S	H		L												
SPACE	103	14.2	16.9	15.1	12.1	36.7	58.3												
COPY		L	A	N	E	S		L											
SPACE	96.2	12.4	17.9	16	13.3	12.2	30	71.8											
COPY		O	N	L	Y		L												
SPACE	90	12.8	12.8	10	12.2	60.2	47.8												
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			

SIGN NAME		QTY	I	SIGN NUMBER	STATION(S)
PANEL		BORDER			
WIDTH	WIDTH				
HEIGHT	RADII				
LEGEND	COLOR				
COLOR					
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			

SIGN NAME	TPK-CPX5	QTY	I	SIGN NUMBER	STATION(S)
PANEL		BORDER			
WIDTH	16'-0"	WIDTH	2"		
HEIGHT	10'-0"	RADII	12"		
LEGEND	Wht/Blk	COLOR	White		
COLOR	Green/Flourescent Yellow				
SYMBOL(S)	ANGLE	X	Y	WID	HT
TB_ADV	0	26.7	41.5	38	64
ARSHRT	45	14	5.5	20	22.5
ARSHRT	45	160	5.5	20	22.5
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



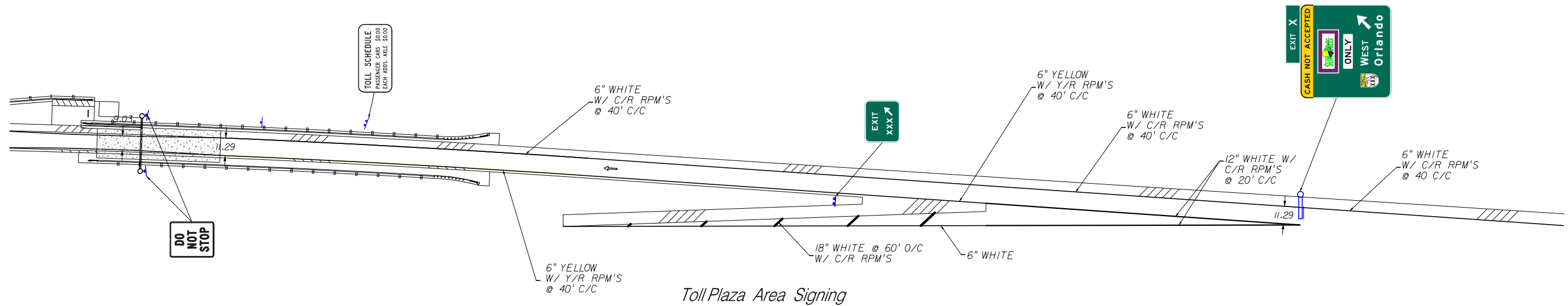
NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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COPY		C	A	S	H		L												
SPACE	100	14.2	16.9	15.1	12.1	33.7	58.3												
COPY		L	A	N	E	S		L											
SPACE	93.2	12.4	17.9	16	13.3	12.2	27	71.8											
COPY		O	N	L	Y		L												
SPACE	86	12.8	12.8	10	12.2	58.2	47.8												
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			

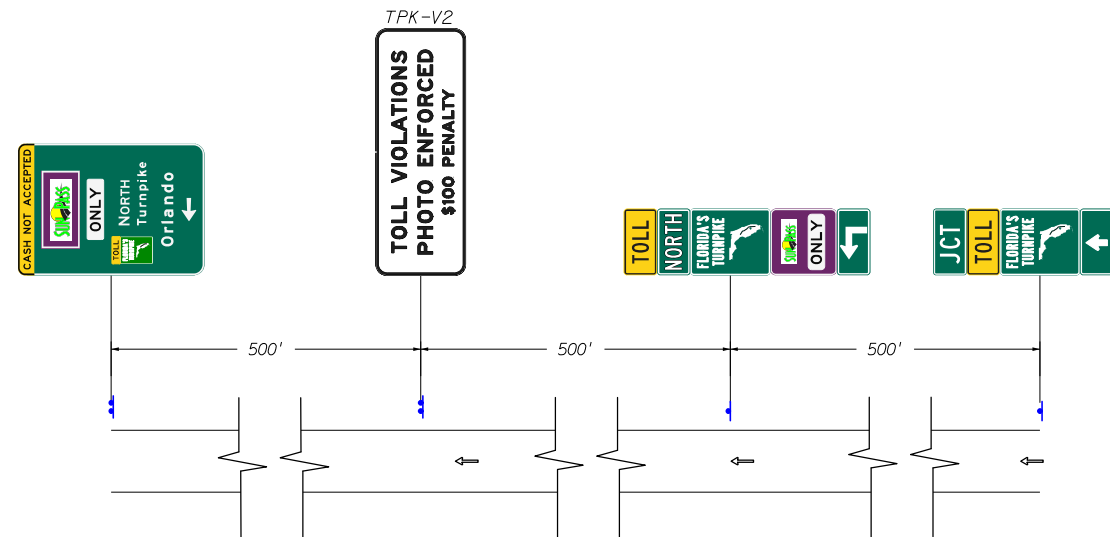
SIGN NAME		QTY	I	SIGN NUMBER	STATION(S)
PANEL		BORDER			
WIDTH	WIDTH				
HEIGHT	RADII				
LEGEND	COLOR				
COLOR					
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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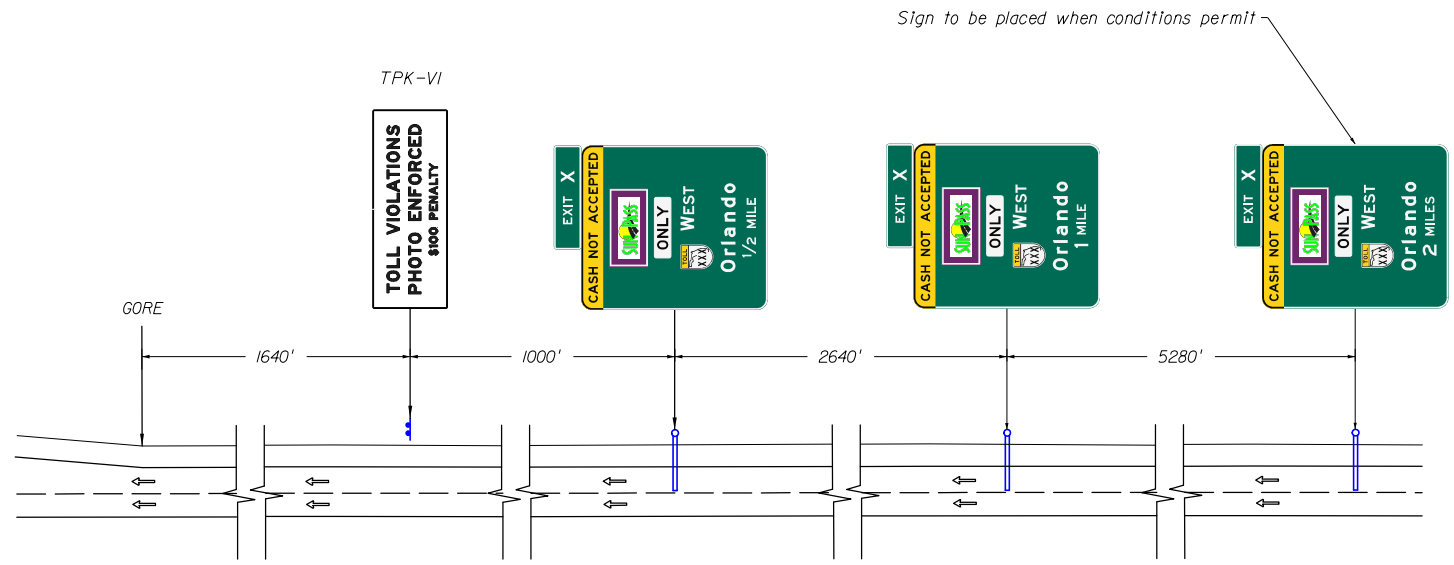
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			



Toll Plaza Area Signing



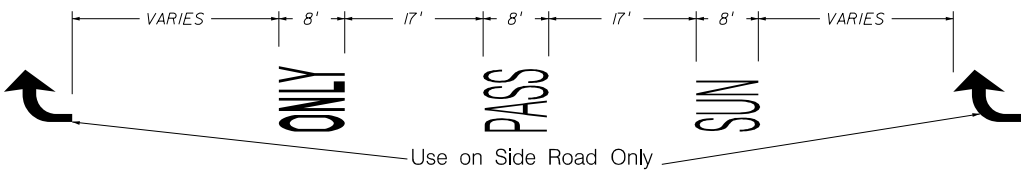
Side Road Advance Signing



Mainline Advance Signing

NOTES:

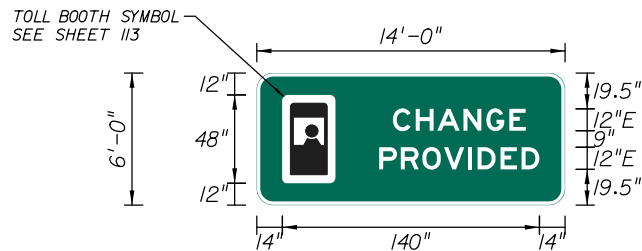
- 1) MAINLINE MARKINGS - SUNPASS ONLY pavement markings shall be added when an auxiliary (drop) lane precedes the OFF ramp.
- 2) SUNPASS ONLY markings on the mainline auxiliary lane are typically spaced 250ft apart
- 3) SIDE ROAD MARKINGS - SUNPASS ONLY pavement markings and arrows shall be added when an auxiliary (drop) lane or turn lane precedes the ON ramp



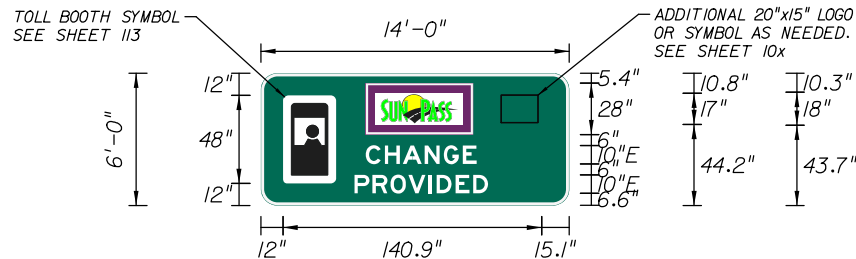
Typical SUNPASS ONLY Pavement Markings

N.T.S.

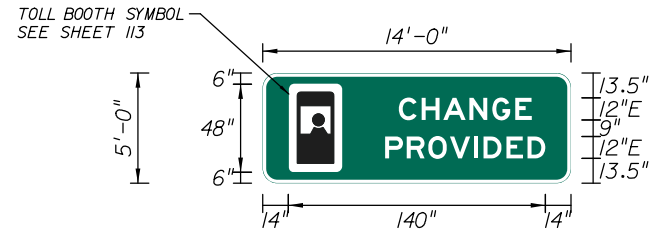
REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ORT RAMP SIGNING & PAVEMENT MARKING LAYOUT	SHEET NO. 109-4
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					
						ROAD NO.	COUNTY	FINANCIAL PROJECT ID		

[illegible]

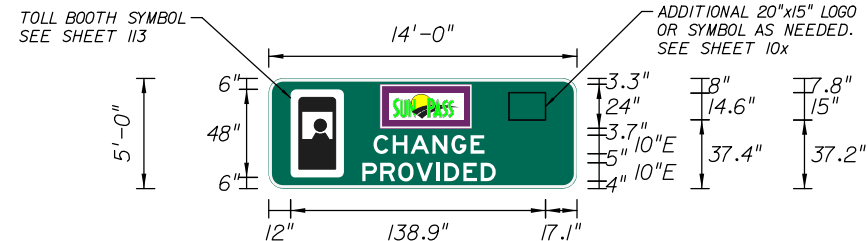
NO. OF LIGHT FIXTURES		FIXTURE SPACING		PHOTOMETRIC CURVE		WATT		VOLTAGE	
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[illegible][illegible]

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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[illegible][illegible]

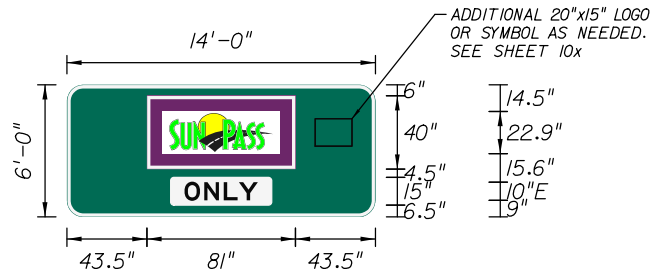
NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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[illegible][illegible]

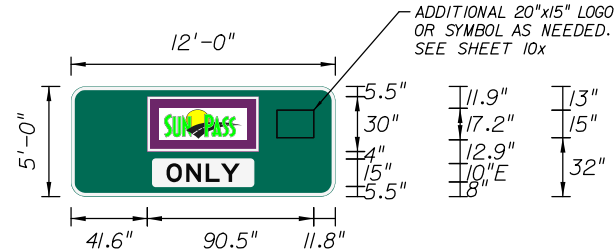
NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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[illegible]

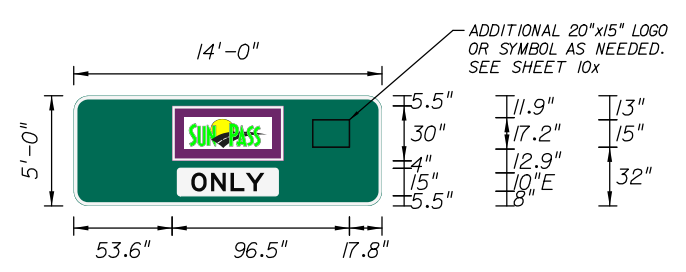
REVISIONS					STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TOLL PLAZA SIGNING DETAILS MAINLINE CANOPY MOUNTED SIGN PANELS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		110-1

[illegible]

FOR SINGLE DEDICATED USE ONLY									
NO. OF LIGHT FIXTURES		FIXTURE SPACING		PHOTOMETRIC CURVE		WATT		VOLTAGE	

[illegible][illegible]

FOR SINGLE DEDICATED USE ONLY									
NO. OF LIGHT FIXTURES		FIXTURE SPACING		PHOTOMETRIC CURVE		WATT		VOLTAGE	

[illegible][illegible]

FOR SINGLE DEDICATED USE ONLY							
NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE			

[illegible][illegible]

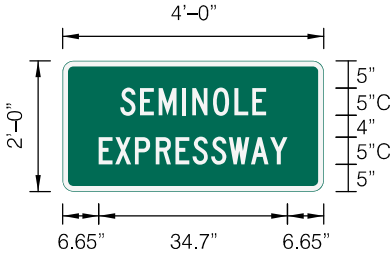
LIGHTING CALCULATION SHEET							
NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE		WATT		VOLTAGE	

[illegible]

<i>REVISIONS</i>					<i>STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION</i>			<i>TOLL PLAZA SIGNING DETAILS MAINLINE CANOPY MOUNTED SIGN PANELS</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		110-3

[illegible]

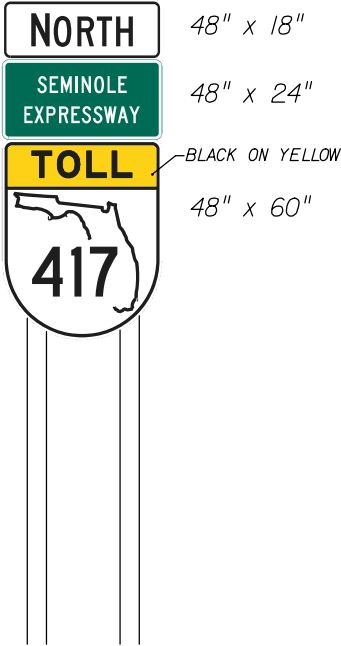
SIGN	NAME	TPK-BRAND	QTY	I	SIGN NUMBER	STATION(S)													
PANEL		BORDER																	
WIDTH	4'-0"	WIDTH	1"																
HEIGHT	2'-0"	RADII	2"																
LEGEND	White	COLOR	White																
COLOR	Green																		
SYMBOL(S)	ANGLE	X	Y	WID	HT														
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH														
NO. OF LIGHT FIXTURES		FIXTURE SPACING		PHOTOMETRIC CURVE		WATT	VOLTAGE												
COPY		S	E	M	I	N	O	L	E		L								
SPACE	10.6	3.6	3.4	4.4	1.8	3.8	4	3.3	2.5	10.6	26.8								
COPY		E	X	P	R	E	S	S	W	A	Y		L						
SPACE	6.7	3	3.6	3.8	3.7	3.2	3.4	3.3	4.1	3.5	3.2	6.7	34.7						
COPY																			
SPACE																			
COPY																			
SPACE																			
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SPACE																			



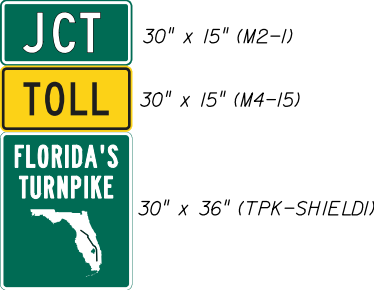
NOTES:

I. TURNPIKE BRANDING SIGN PANEL TO BE USED ON THE FOLLOWING ROADWAYS WHICH ARE PART OF THE TURNPIKE SYSTEM:

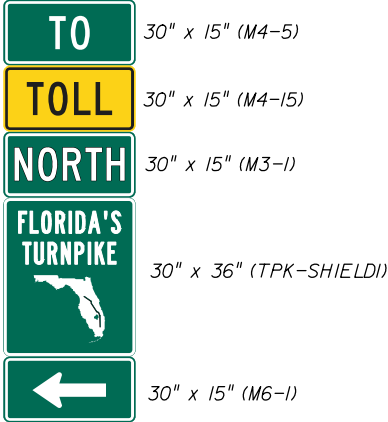
- BEACHLINE EXPRESSWAY, SR 528
- FIRST COAST EXPRESSWAY, SR 23
- POLK PARKWAY, SR 570
- SAWGRASS EXPRESSWAY, SR 869
- SEMINOLE EXPRESSWAY, SR 417
- SUNCOAST PARKWAY, SR 589
- VETERANS EXPRESSWAY, SR 589
- WESTERN BELTWAY, SR 429



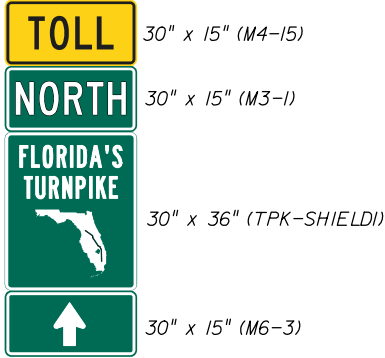
JUNCTION ASSEMBLIES



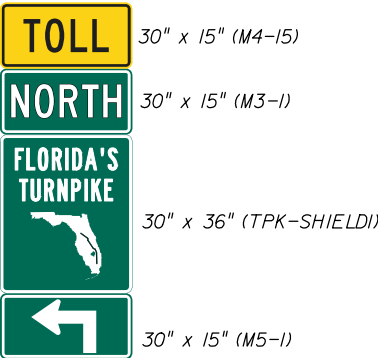
TRAILBLAZER ASSEMBLIES



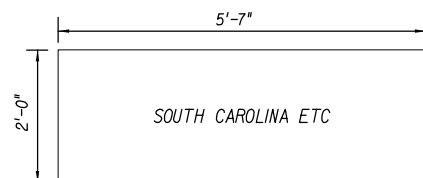
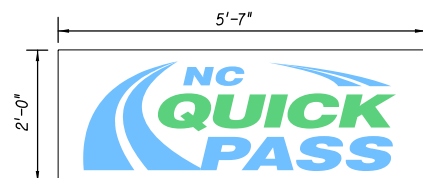
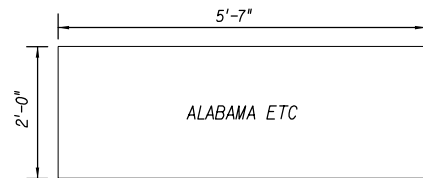
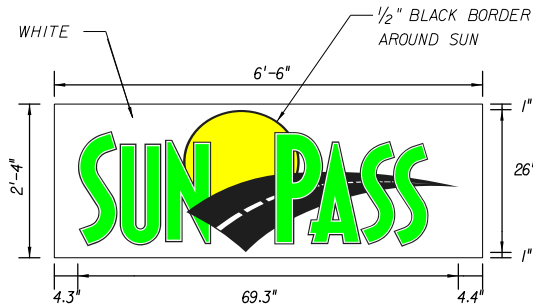
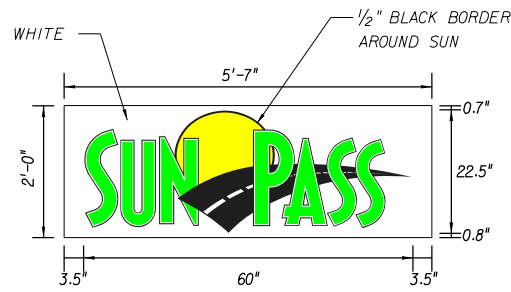
AET-08



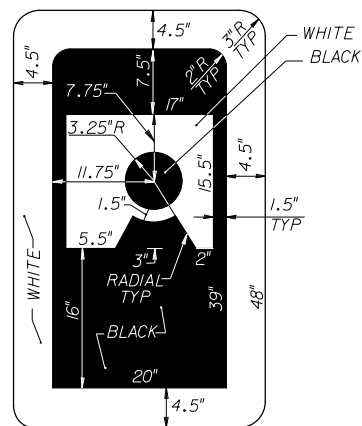
AET-09



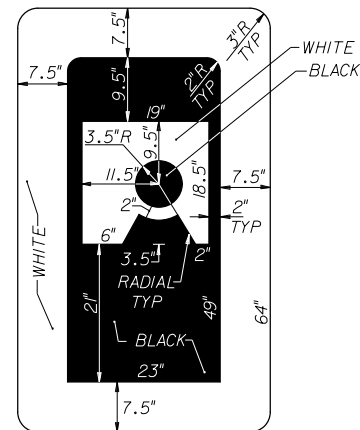
REVISIONS							STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SPECIAL SIGN DETAILS BRANDING SIGN PANEL	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		113-2
									- - -		



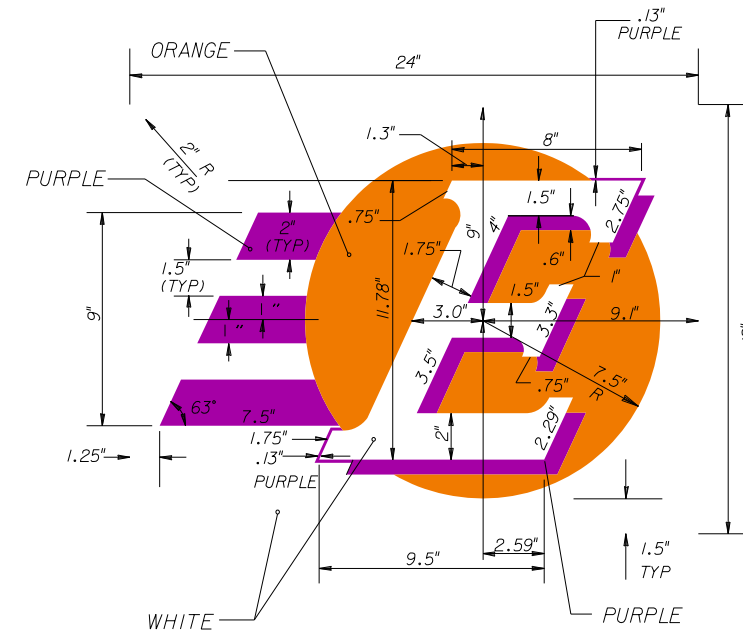
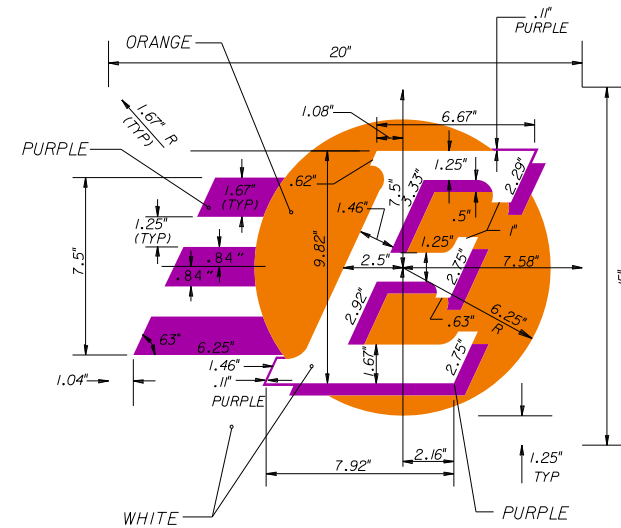
- GENERAL NOTES FOR SUNPASS SHIELD ON MIXED-USE LANES
1. THE DEPARTMENT WILL PROVIDE THE LOGO IN MICROSTATION FORMAT FOR USE IN SIGN FABRICATION.
 2. THE LOGO SHALL NOT BE FABRICATED BY HAND CUT OUT METHOD.
 3. ALL SIGN COLORS SHALL BE STANDARD HIGHWAY COLORS AS SPECIFIED IN THE MUTCD



TOLL ATTENDANT SHIELD
FOR CANOPY MOUNTED SIGNS
29" X 48"



TOLL ATTENDANT SHIELD
FOR APPROACH SIGNS
38" X 64"



GENERAL NOTES FOR EPASS SHIELD:

1. EPASS LOGO COLORS:

WHITE
PURPLE, 3M VIOLET NO. 893 OR APPROVED EQUAL.
ORANGE, 3M ORANGE NO. 886 OR APPROVED EQUAL.

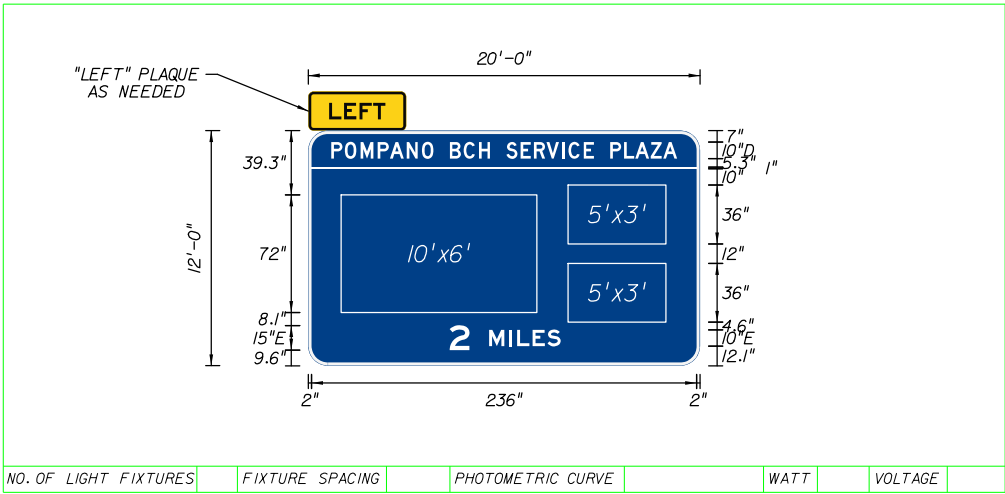
2. NARROW PORTIONS OF SPECIAL DESIGN COPY IN EPASS LOGO SHALL HAVE MINIMUM THICKNES OF 1.00 INCH.

3. ALL DIMENSIONS ARE IN INCHES.

4. THIS SHIELD SHALL BE ATTACHED BY RIVETING METHOD ONLY.
NO ADHESIVES OR OTHER MEANS ARE ALLOWED.

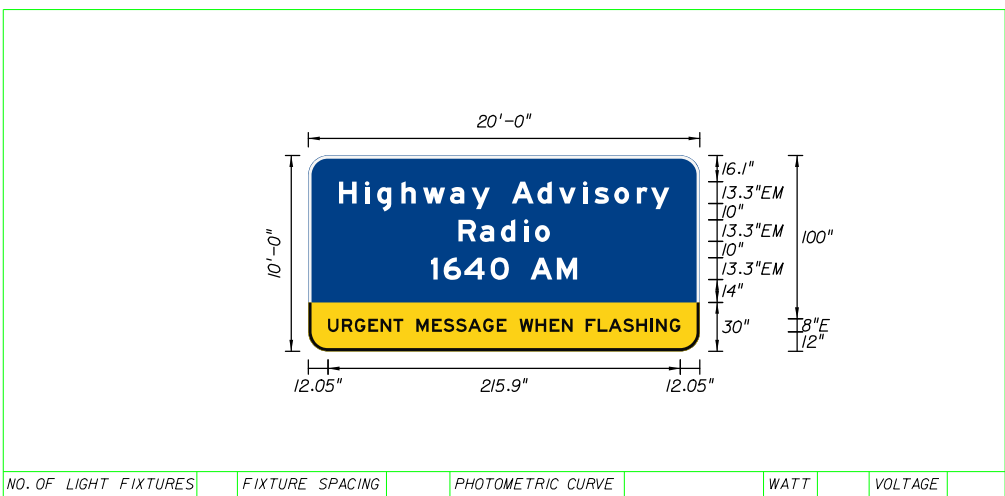
REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION				
						ROAD NO.	COUNTY	FINANCIAL PROJECT ID	113-3

SIGN NAME	TPK-SERVI	QTY	I	SIGN NUMBER	STATION(S)
PANEL	BORDER				
WIDTH	20'-0"	WIDTH	2"		
HEIGHT	12'-0"	RADII	12"		
LEGEND	White	COLOR	White		
COLOR	Blue				
SYMBOL(S)	ANGLE	X	Y	WID	HT
5x3	0	159.2	74.7	60	36
10x6	0	20.1	32.7	120	72
5x3	0	159.2	26.7	60	36
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE	AVERAGE LENGTH	



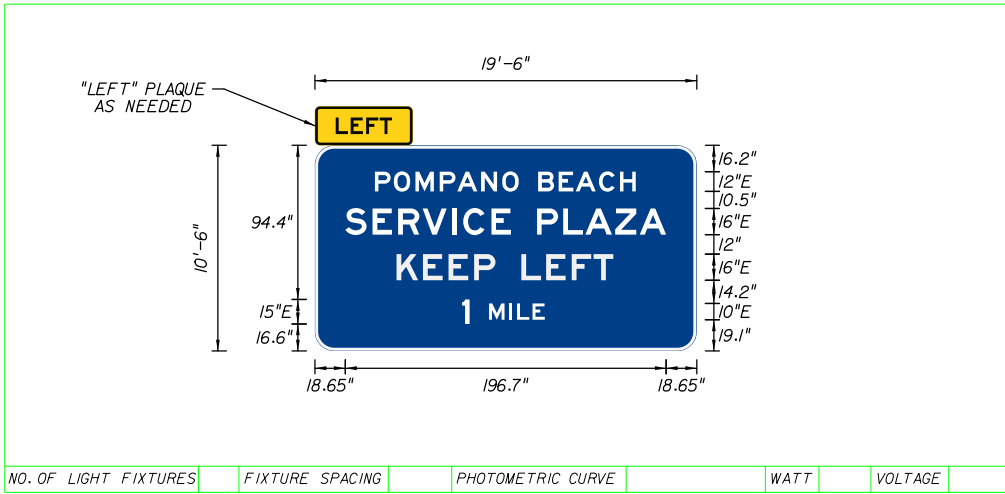
COPY		P	O	M	P	A	N	O		B	C	H		S	E	R	V	I	C	E		P	L
SPACE	14.1	8.3	9.6	10.6	7.5	10.2	9.3	7.1	10	8.5	9.3	6.8	10	8.8	8.2	7.7	9.3	4.1	9.3	6.2	10	8.5	6.9
COPY		2		M	I	L	E	S		L													
SPACE	86.6	12.1	12	12.4	4.8	9.5	9.1	8.1	85.4	68													
COPY																							
SPACE																							
COPY																							
SPACE																							
COPY																							
SPACE																							
COPY																							
SPACE																							

SIGN NAME	TPK-HAR	QTY	I	SIGN NUMBER	STATION(S)
PANEL	BORDER				
WIDTH	20'-0"	WIDTH	2"		
HEIGHT	10'-0"	RADII	12"		
LEGEND	White	COLOR	White		
COLOR	Blue				
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE	AVERAGE LENGTH	



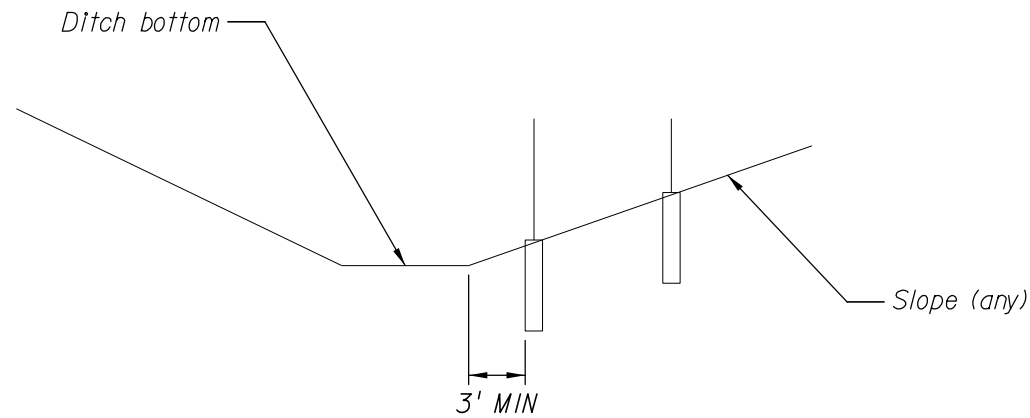
COPY		H	I	g	h	w	a	y		A	d	v	I	s	o	r	y		L				
SPACE	18.7	16	7.4	14.9	13.2	16.6	13.2	11.3	13.3	15.7	13.2	14.7	7.1	12.1	13.8	8.6	11.3	18.7	202.5				
COPY		R	a	d	i	o		L															
SPACE	92	13.2	12.9	14.1	6.8	9	92	56															
COPY		1	6	4	0		A	M		L													
SPACE	75.3	7.7	12.8	16	11.2	13.3	16.2	12.4	75.3	89.5													
COPY		U	R	G	E	N	T		M	E	S	S	A	G	E								
SPACE	12	8.6	7.8	8.3	7.6	7.8	6	8	9.6	7.1	7.6	7.4	9.3	8.3	6								
COPY		W	H	E	N		F	L	A	S	H	I	N	G		L							
SPACE	8	9.8	8.6	7.6	6.5	8	7.4	6.6	9	8.1	8.6	3.5	8.3	6.5	12	215.9							
COPY																							
SPACE																							

SIGN NAME	TPK-SERV3	QTY	I	SIGN NUMBER	STATION(S)
PANEL	BORDER				
WIDTH	19'-6"	WIDTH	2"		
HEIGHT	10'-6"	RADII	12"		
LEGEND	White	COLOR	White		
COLOR	Blue				
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE	AVERAGE LENGTH	



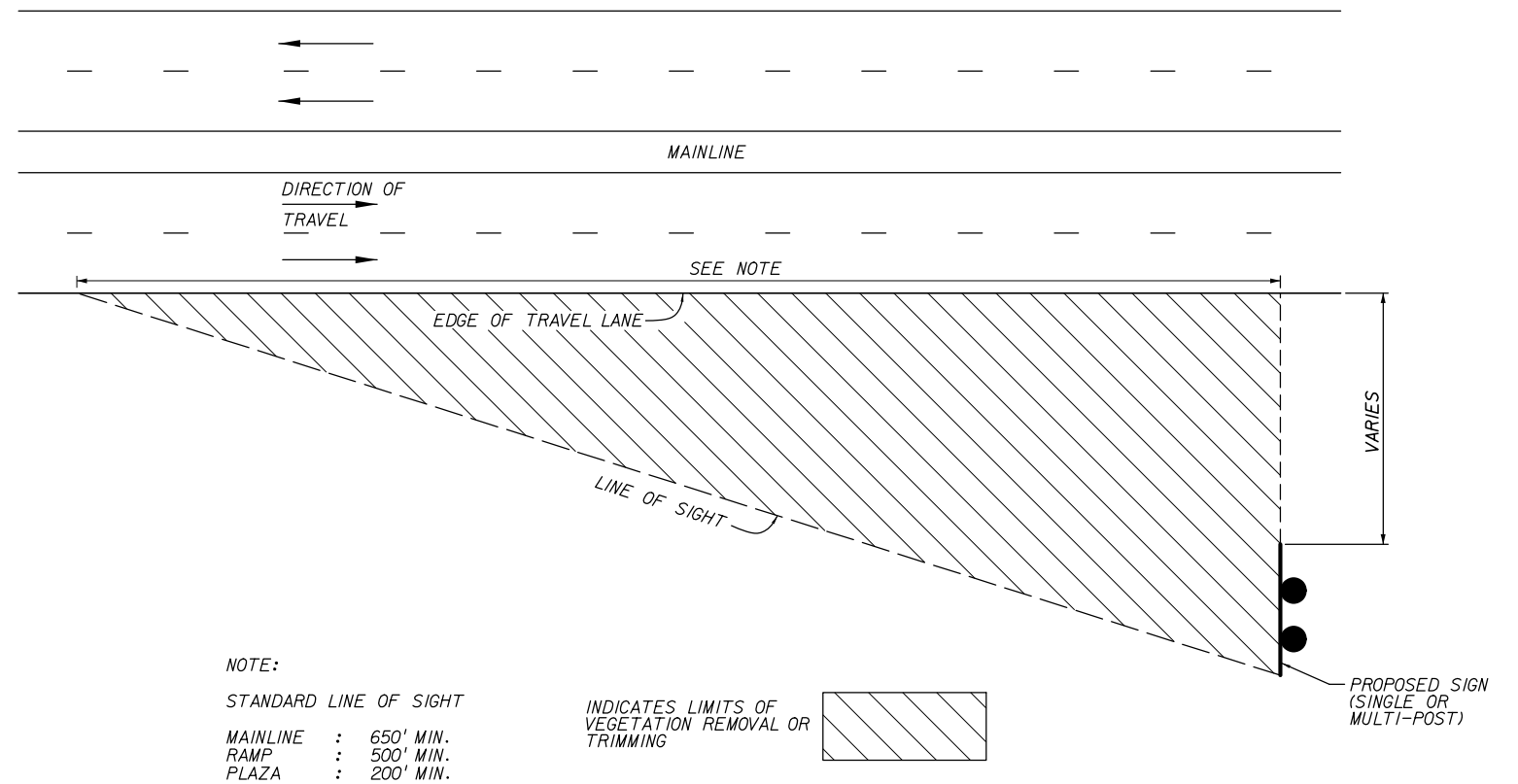
COPY		A	P	Q	M	P	A	N	O		B	E	A	C	H		L						
SPACE	38.5	11.1	13.2	14.9	10.8	14.6	12.9	10.1	12	12.5	10.5	14.2	12.9	9.7	37.4	159.9							
COPY		S	E	R	V	I	C	E		P	L	A	Z	A		L							
SPACE	18.7	16.6	15.7	15	17.8	7.1	17.2	12	16	16.1	13.5	18.3	15	16.3	18.7	196.7							
COPY		K	E	E	P		L	E	F	T		L											
SPACE	50	16.2	15.7	15.7	13	16	15.1	15.7	13.5	12	51.1	132.8											
COPY		1		M	I	L	E		L														
SPACE	90.3	4.5	12	12.4	4.8	9.5	7.5	93.1	50.6														
COPY																							
SPACE																							
COPY																							
SPACE																							

REVISIONS							STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SPECIAL SIGN DETAILS SERVICE PLAZA & HAR	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		113-4
									- - -		



Sign post shall not be placed in any ditch bottom where standing water can occur or seasonal high water runoff can erode post foundation.

Sign posts shall not straddle ditch bottom.



N.T.S.

8/12/2015

REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			MISCELLANEOUS DETAILS SIGN PLACEMENT		SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION						
						ROAD NO.	COUNTY	FINANCIAL PROJECT ID			113-7