

Plans with Permit #

Right-of-Way Utilization Permit

Please complete a separate application for each road

Applicant Name: Sabal Trail Transmission, LLC	Date: September 23, 2015					
c/o Right-of-Way Department	01 / 22 / 24					
Name Permit Will Be Returned To:	Section Township Range					
400 Colonial Center Pkwy, Suite 300	Willa City Rd					
Street Address	Road Name: CR-565 / Villa City Rd.					
<u>Lake Mary, FL 32746</u> City, State, Zip	Subdivision and/or Site Plan Name Number					
Sity, State, Elp						
1-888-596-7732 gpkmetz@spectraenergy.c	Paid Date Rec'd By					
Telephone Number Applicant's e-mail address	Paid Date Rec'd By					
If this project will result in any new above ground structures, poles, or facilities please state where and what is proposed. Applicant may be requested to provide an engineer's certification that roadway clearance and sight distances have been met. Description of Work: Construct, operate and maintain an underground 36" Diameter Interstate Natural Gas pipeline under the above county road as depicted in drawing Number FL-LA-045.500.RC attached hereto. Sabal						
Trail Transmission has also attached a typical temporary en						
basis for movement of equipment from one side of the roa plan.	d to the other along with the appropriate traffic control					
	elephone Number:					
Start of Construction Date: May 2016	Length of time of construction: 390 days					
Is proposed work within city limits? No If	so, what city?					
A letter of notification was mailed on One Call prior to	construction to the following utilities & municipalities:					
Applicant declares that he/she has determined the location	of all existing underground and aerial utilities.					
Applicant declares that he/she has read the attached applic						
Signature Of Applicant Tina Faraca, Vice President of Sabal Trail Management, LLC, Operator for Sabal Trail Transmission, LLC Applicant, Please Print Name						
$RD \neq 2215$ To be completed	by County Staff					
Permit # <u>6923</u> Permit Fee: \$100.00 F	ee Code: PWRW					
Checked by:	Date Checked:					
Approved by:	Date Approved: 10-9-15					
Special Conditions:	Expiration Date:					
Cau 352-253-6019 48 hours Prior to Starting work Ext 11-5-17						
For inspection, call the Lake County Public Works Department at 352-483-9000 Submit Permit to: Lake County Public Works, 437 Ardice Avenue, Eustis, FL 32726						
Suoma I ema to. Lane County I aduct mons, 75/ Arace Avenue, Eusus, IL 52/20						
	ntered Data One					
Road Operations Division	Ipdated Data One Second Scan Right-of-Way Utilization Permit 10.12.15 Effective July 2012					

It is agreed that in the event the installation, adjustment or relocation of said utilities are scheduled to be done simultaneously with Lake County construction work, the applicant shall coordinate with Lake County before proceeding and shall cooperate with the Lake County's contractor to arrange the sequence of work so as not to delay the work of Lake County contractor, defend any legal claims of Lake County's contractor due to delays caused by the applicant's failure to comply with the approved schedule, and shall comply with all provisions of the law and Lake County's current Utility Accommodation Manual. The applicant shall not be responsible for delay beyond its control.

All right-of-way utilization activities shall be reported to Sunshine State One-Call at least seventy-two (72) hours prior to commencement.

Guarantee and Responsibility for Compliance:

In the case of noncompliance with the County's requirements, this permit will be void and the facility will be brought into compliance or removed from the right-of-way at no cost to the County.

The County may issue "Stop Work" order(s) upon any permittee committing or creating an unsafe act which may create a public hazard or who is not complying with this permit or the applicable codes. The order shall remain in effect until such time as these matters are corrected.

Permits shall be issued with the understanding that the applicant shall guarantee all work performed under the terms of the permit for a period of one (1) year from the date of final inspection and acceptance of work.

Any failures shall be repaired by the applicant, at the direction of the County, within five (5) days, unless the urgency of the problem requires a quicker reaction time.

The applicant shall be responsible for all repair costs incurred due to damages to existing utilities by failure to use due care, including errors in locating existing utilities during construction.

Removal/Relocation of Improvements: Upon ten (10) days written notice, the applicant shall be required to remove and/or relocate the improvements placed within the right-of-way at the applicant's sole expense.

It is expressly stipulated that this permit is a license for permissive use only and that the placing of facilities upon public property pursuant to this permit shall not operate to create or vest any property right in said holder.

It is understood and agreed that the rights and privileges herein set out are granted only to the extent of the County's right, title and interest in the land to be entered upon and used by the holder, and the holder will, at all times, assume all risk of and indemnify, defend and save harmless the County of Lake Seatached Sept. 206 from and against any and all loss, damage, cost or expense arising in any manner on account of the exercise or attempted exercises by said holder of the aforesaid rights and privileges.

I have read and understand the above requirements

Applicant's Signature

waca

Tina V. Faraca, Vice President of Sabal Trail Management, LLC, Operator for Sabal Trial Transmission, LLC

Public Works Department Road Operations Division

FL-LA-045.500.RC

Right-of-Way Utilization Permit Effective July 2012



Right-of-way Utilization Permit Requirements

The purpose of the Right-of-Way Utilization permit is to control the use of public rights-of-way and public easements and protect the health, safety and welfare of the public. Any work within public rights-of-way requires an approved right-of-way utilization permit.

Application Requirements:

For each road involved, please submit one (1) original application and supporting documentation to the Lake County Department of Public Works.

Completed applications must include a sketch or construction plans drawn to scale, showing the following:

- 1. The offset from the centerline of the right-of-way or roadway to the proposed utility installation, the road right-of-way width and pavement width, the distance from the edge of pavement to the utility, sidewalks, and the location of all other utilities, including traffic signal utilities, within the area of work.
- 2. One or more typical cross sections to adequately reflect the location of the utility. Please indicate the minimum vertical clearance above or below the pavement or natural ground.
- 3. The location of the area of work in relation to the nearest road intersection, bridges, railroad crossings, and other physical features. Please include a location or vicinity map showing the general location of the installation.

All permit applications must demonstrate that the proposed improvements conform to the right-of-way utilization requirements included in the *Lake County Land Development Regulations*.

Projects of significant length and land size may require a complete right-of-way survey.

A performance bond may be required of the applicant in the event the work covered by the right-of-way utilization permit has the potential to significantly damage the right-of-way. The amount of the performance bond shall be 110% of the estimated cost to repair such damage, as determined by Lake County.

Prior to construction, applicant shall provide written notice to all property owners adjacent to the project limits. This notice shall include, at a minimum, the anticipated construction schedule, maintenance of traffic plan and any impacts, permanent or temporary, to the adjacent properties. The notice must provide contact information including the name and telephone number of the project manager. Within a minimum of fourteen (14) calendar days prior to construction, applicant shall provide to the County a copy of the notification with a list of the parties notified.

A copy of the approved permit and related supporting documents shall be on site at all times during construction.

Permit Conditions:

Whenever necessary for the construction, maintenance, operation or alteration of the right-of-way, as determined by the County, any or all of the appurtenances authorized by this permit shall be immediately removed from the right-of-way or relocated, as required by the County, at the expense of the applicant unless reimbursement is specifically authorized.

If above ground utilities are being replaced, the old utilities and utility appurtenances must be removed from County right-of-way within thirty (30) days after new utilities are installed.

All work, materials and equipment shall meet all County codes and standards and shall be subject to inspection by the County. All right-of-way disturbed by this work shall be restored to its original condition or better and in accordance to applicable County Codes. All disturbed areas must be sodded, matching existing grass type. Bahia sod shall be used if no grass is present at time of construction.

The construction and maintenance of this utility shall not interfere with the property and rights of a prior applicant.

Where possible, excavation shall not be allowed within five (5) feet from the edge of the pavement. Situations that cannot meet this requirement shall require prior approval of the County.

The County shall be notified twenty-four (24) hours in advance of starting work. In the interest of public safety all operations shall take place during daylight hours, unless specifically authorized, and discontinued by sunset with proper signage and traffic control devices maintained during off hours.

All traffic detours shall be restricted to the limits of right-of-way with necessary flagmen and marking devices. A traffic detour or lane closure shall require specific approval by the County.

Written approval from the Lake County Engineer shall be required before any alterations to existing traffic signal equipment including, but not limited to: vehicle detection loops and signal timing.

If traffic signal vehicle detection loops are rendered inoperable, temporary detection shall be installed within twenty-four (24) hours.

All traffic signal utilities disturbed by this work shall be restored to its original condition or better. Traffic signal utilities include but not limited to: vehicle detection loops, conduit, cabling, pull boxes, pedestrian signal equipment, span assemblies, signal heads, cabinet assemblies, cameras and fiber optic infrastructure.

All utility construction and maintenance shall be performed with proper shoring, barricades, and maintenance of traffic signage in accordance with the FHWA Manual on Uniform Traffic Control Devices (MUTCD), OSHA law and regulations, and the Florida Department of Transportation Highway Safety Plan.

The County shall not be responsible for damages to any structure placed within the right-of-way. All structures shall be properly maintained, adequately visible or properly delineated to prevent damage due to normal maintenance of the right-of-way.

Open cuts of roads will not be allowed unless specifically authorized by Lake County. Directional bore or jack and bore operations should maintain a five (5) foot minimum clearance from edge of pavement on road crossing each side. Recommended bore depth is thirty-six inches (36") and a minimum bore depth is thirty inches (30"). Any overhead installations should maintain a minimum of eighteen (18) feet vertical clearance over all roadways and driveways.

This permit is effective for one year from its approval date, unless otherwise rescinded by Lake County.

Inspection and Approval of Work:

The County shall have the right to inspect and approve all materials and/or phases of work. Final inspection and acceptance of work by the County must be obtained to document the completion of the work. All work shall be subject to the construction requirements and inspections as required in other provisions of the *Lake County Land Development Regulations*. Pursuant to Section 337.403(1), Florida Statues, any utility placed upon, under, over, or along any public road or publicly owned rail corridor that is found by Lake County to be unreasonably interfering in any way with the convenient, safe, or Public Works Department

Public Works Department
Road Operations Division
Right-of-Way Utilization Permit
Effective Sept 2015

continuous use, or maintenance, improvement, extension, or expansion, of such public road or publicly owned rail corridor shall, upon thirty (30) days written notice to the utility or its agent by Lake County be removed or relocated by such utility at its own expense.

It is agreed that in the event the installation, adjustment or relocation of said utilities are scheduled to be done simultaneously with Lake County construction work, the applicant shall coordinate with Lake County before proceeding and shall cooperate with the Lake County's contractor to arrange the sequence of work so as not to delay the work of Lake County contractor, defend any legal claims of Lake County's contractor due to delays caused by the applicant's failure to comply with the approved schedule, and shall comply with all provisions of the law and Lake County's current *Utility Accommodation Manual*. The applicant shall not be responsible for delay beyond its control.

All right-of-way utilization activities shall be reported to Sunshine State One-Call at least seventy-two (72) hours prior to commencement.

Guarantee and Responsibility for Compliance:

In the case of noncompliance with the County's requirements, this permit will be void and the facility will be brought into compliance or removed from the right-of-way at no cost to the County.

The County may issue "Stop Work" order(s) upon any permittee committing or creating an unsafe act which may create a public hazard or who is not complying with this permit or the applicable codes. The order shall remain in effect until such time as these matters are corrected.

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Any failures shall be repaired by the applicant, at the direction of the County, within five (5) days, unless the urgency of the problem requires a quicker reaction time.

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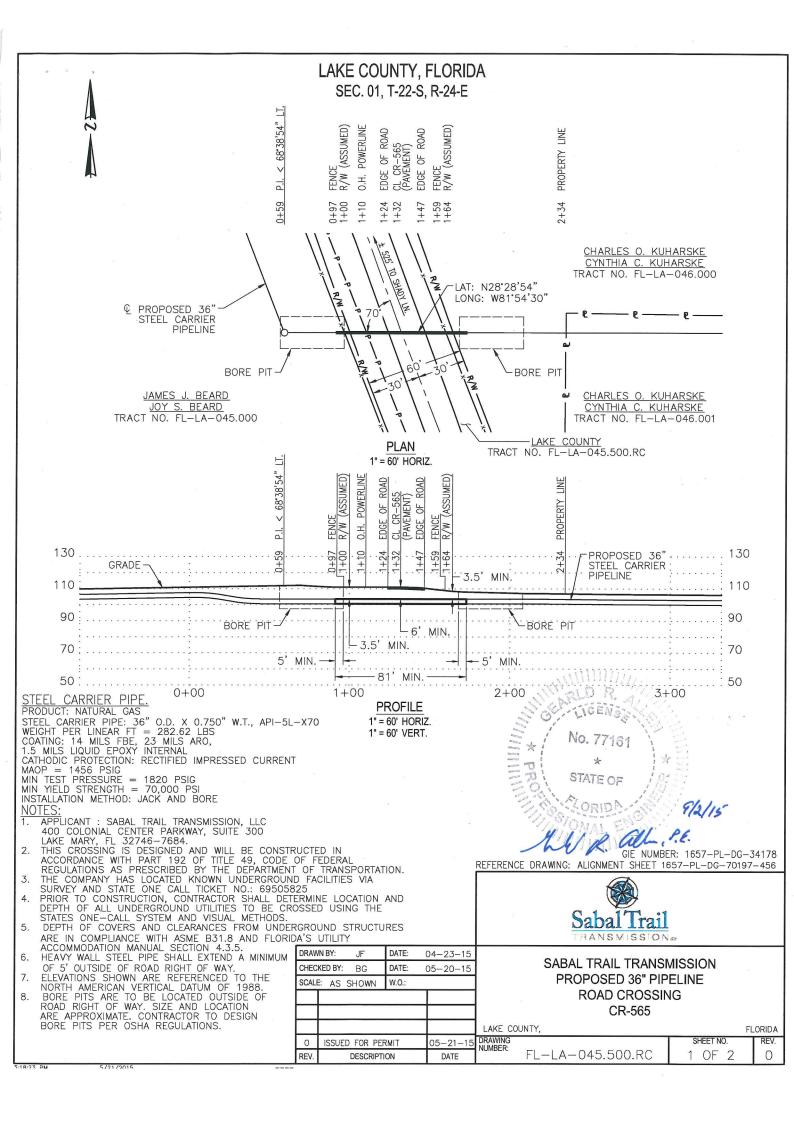
Removal/Relocation of Improvements: Upon ten (10) days written notice, the applicant shall be required to remove and/or relocate the improvements placed within the right-of-way at the applicant's sole expense.

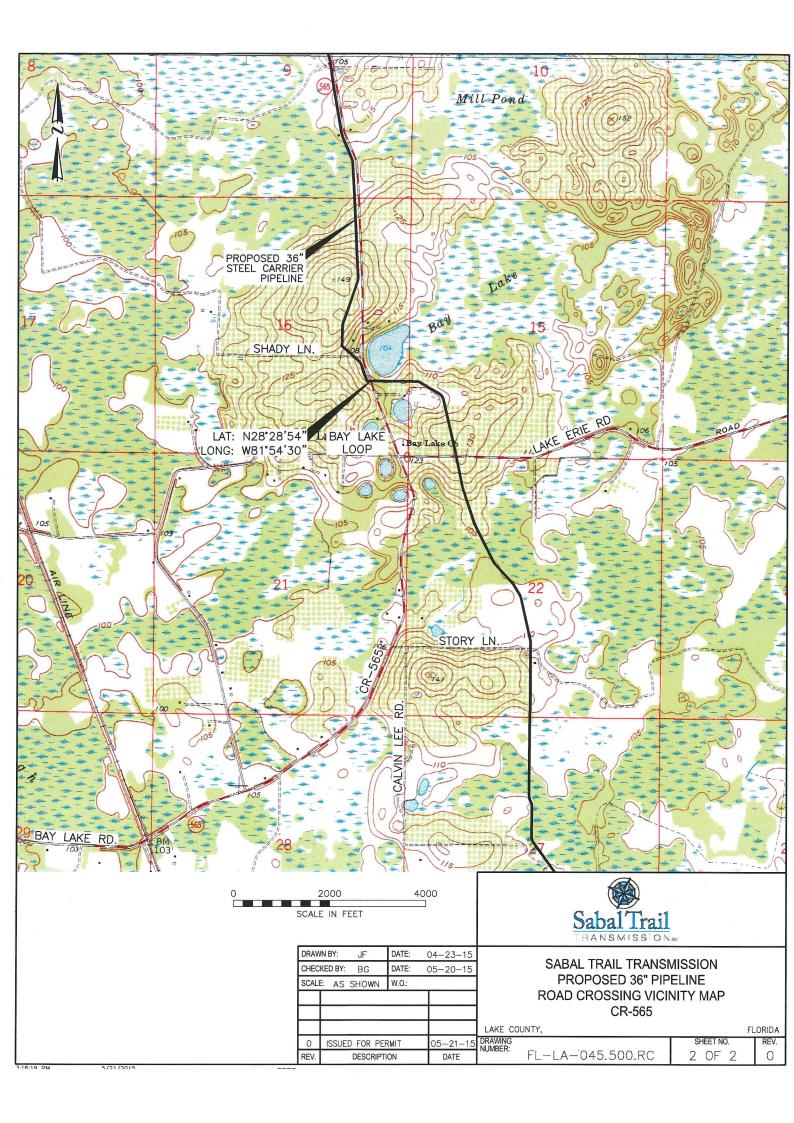
It is expressly stipulated that this permit is a license for permissive use only and that the placing of facilities upon public property pursuant to this permit shall not operate to create or vest any property right in said holder.

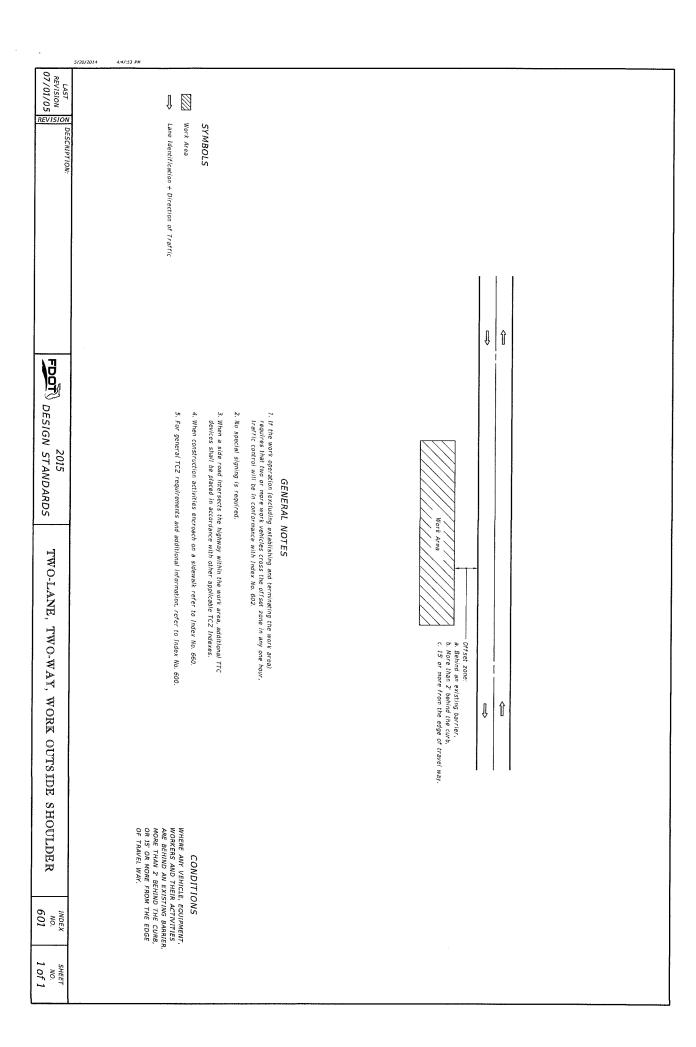
It is understood and agreed that the rights and privileges herein set out are granted only to the extent of the County's right, title and interest in the land to be entered upon and used by the holder, and the holder will, at all times, assume all risk of and indemnify, defend and save harmless the County of Lake from and against any and all loss, damage, cost or expense arising in any manner on account of the exercise or attempted exercises by said holder of the aforesaid rights and privileges.

I have read and understand the above requirements

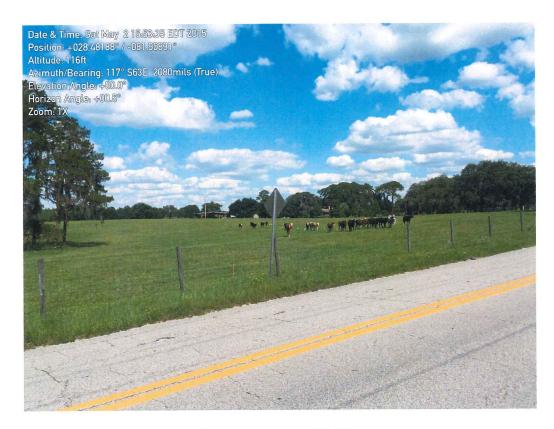
Applicant's Signature/Date



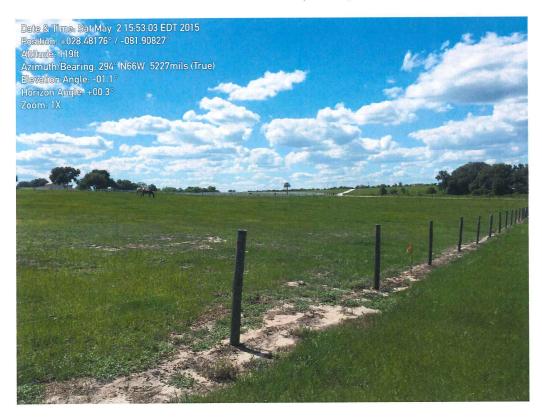




FL-LA-045.500.RC

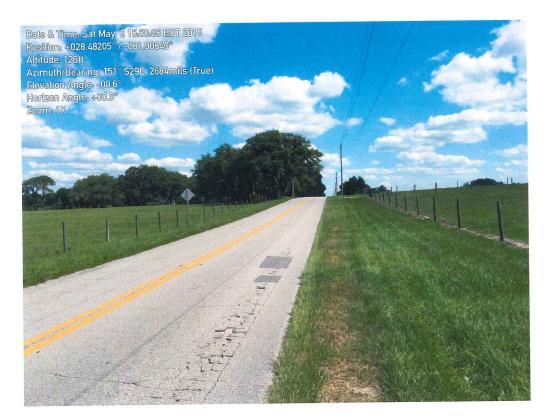


View Downstream (CR 565)

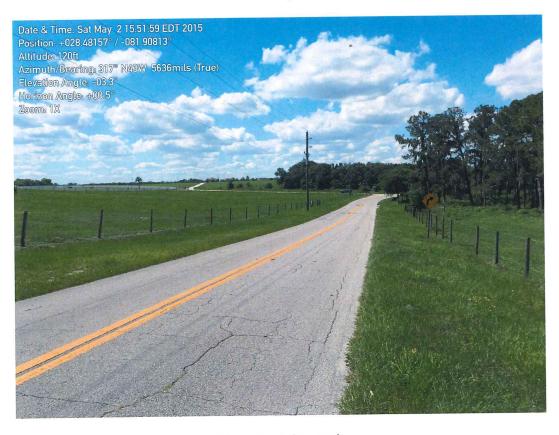


View Upstream (CR 565)

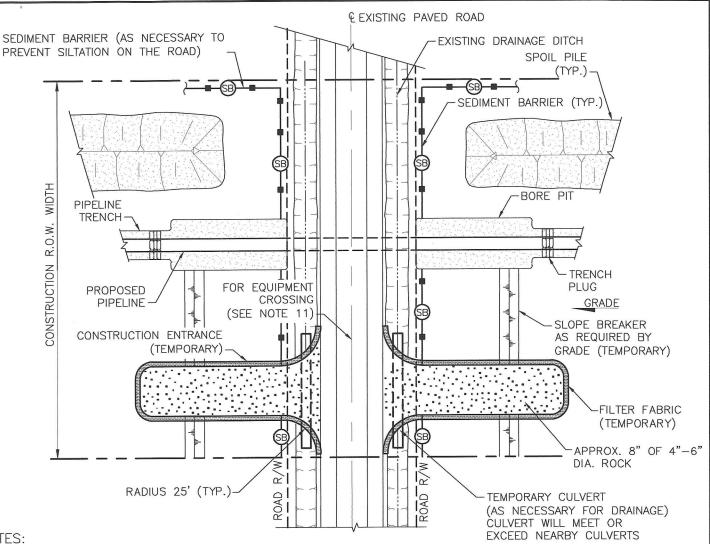
FL-LA-045.500.RC



View South (CR 565)



View North (CR 565)



NOTES:

- PROVIDE MINIMUM OF 3.5 FEET OF COVER BETWEEN TOP OF PIPE AND LOWEST POINT IN THE BORROW DITCHES, OR PROVIDE MINIMUM 5 FEET OF COVER BETWEEN PIPE AND TOP OF ROAD SURFACE, OR MINIMUM DEPTH REQUIRED BY PERMIT, WHICHEVER DIMENSION PROVIDES GREATER DEPTH FOR PIPELINE.
- TRENCH AND BORE PIT SHALL BE DESIGNED IN ACCORDANCE WITH OSHA REQUIREMENTS.
- SEDIMENT BARRIERS SHALL BE INSTALLED AT THE BASE OF SLOPES ADJACENT TO ROAD CROSSINGS WHERE VEGETATION IS DISTURBED TO INTERCEPT SURFACE RUNOFF.
- PROTECTION FOR SPOIL PILES SHALL BE INSTALLED ONLY WHERE SEDIMENT BARRIERS ACROSS THE ENTIRE DISTURBED AREA ARE NOT REQUIRED.
- SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL PERMANENT REVEGETATION IS ESTABLISHED.
- WATER REMOVED FROM BORE PIT AND RECEIVING PIT SHALL BE FILTERED THROUGH A DEWATERING STRUCTURE OR FILTER BAG.

- 7. IF WELL POINTING IS REQUIRED PRIOR TO EXCAVATING BORE PITS, CONTRACTOR SHALL CONSULT WITH COMPANY'S ENVIRONMENTAL INSPECTOR PRIOR TO COMMENCEMENT OF WORK ORDER TO DETERMINE PROPER DEWATERING DISCHARGE LOCATION.
- 8. CONTRACTOR SHALL BE REQUIRED TO KEEP THE ROAD CLEAN OF DEBRIS AT ALL TIMES AND WILL USE FDOT APPROVED TRACKING MATERIAL TO REMOVE DIRT ROAD DEBRIS FROM EQUIPMENT.
- 9. CONTRACTOR MAY ELECT TO UTILIZE SHEET PILING IN ORDER TO STABILIZE TRENCH.
- 10. DEPENDING ON TOPOGRAPHY AND STATE REQUIREMENTS, SEDIMENT BARRIERS MAY BE REQUIRED ACROSS THE ENTIRE CONSTRUCTION RIGHT OF WAY AT THE EDGE OF ROAD.
- 11. TIRES AND/OR PLYWOOD WILL BE USED ON ROAD SURFACES FOR TRACKED EQUIPMENT CROSSINGS.



(SB) TEMPORARY SEDIMENT BARRIER OF SILT FENCE AND/OR STRAW BALES.

DRA	WN BY: JW	DATE:	06/08/15		
CHECKED BY: BG		DATE:	08/27/15		
SCA	LE: NONE	W.O.:			
2	RE-ISSUED FOR PERMIT		08/27/15		
1	RE-ISSUED FOR	07/29/15			
0	ISSUED FOR PERMIT		07/13/15		

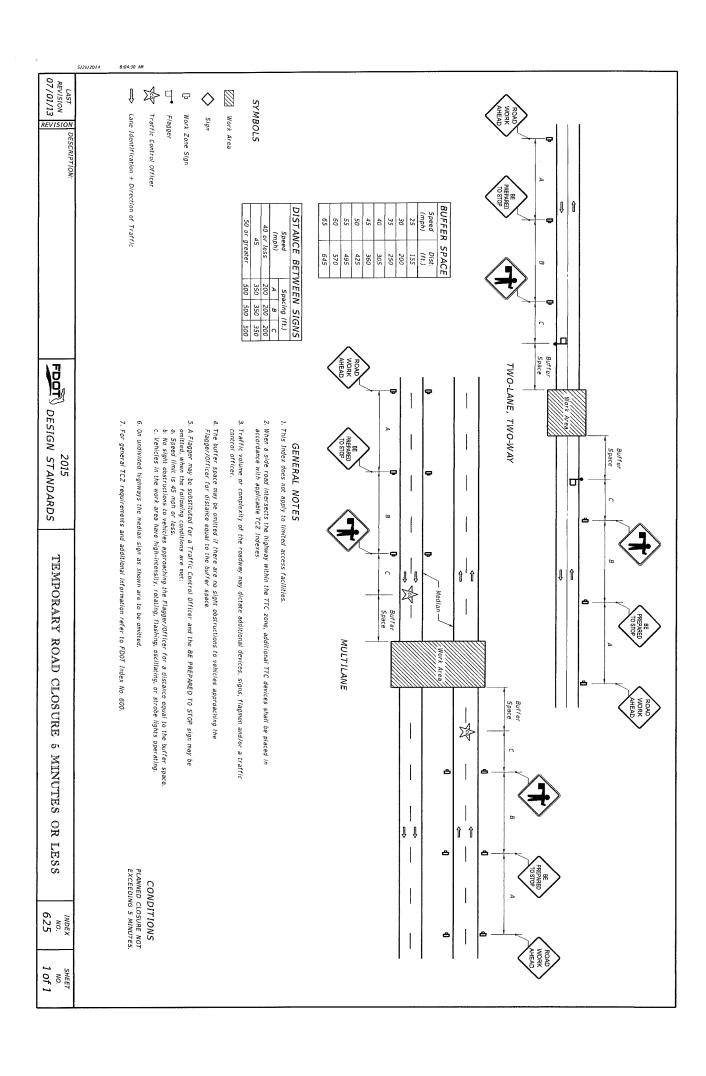
DESCRIPTION

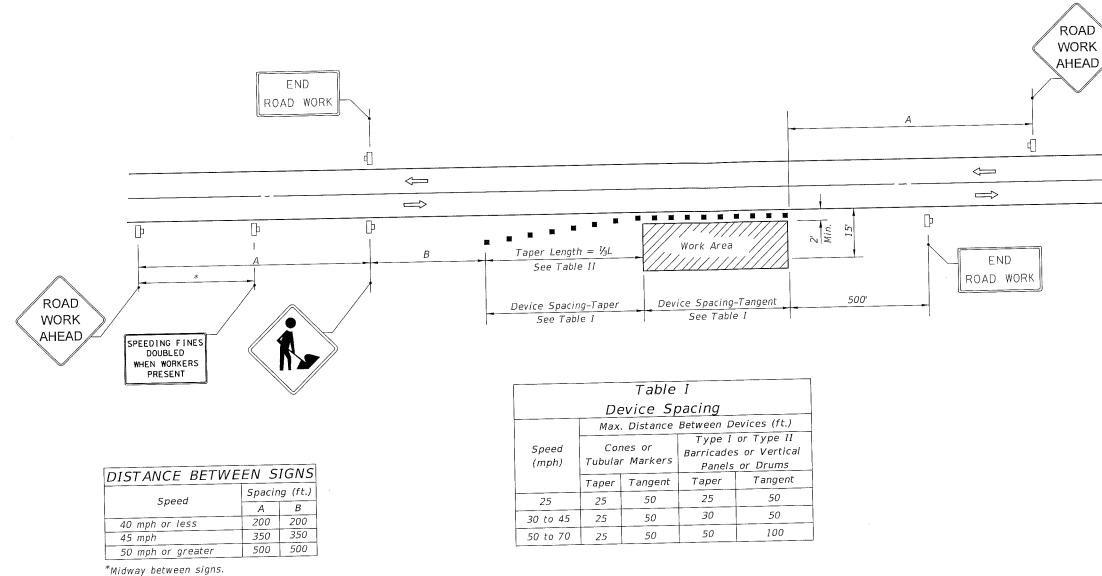
DATE

REV.

SABAL TRAIL TRANSMISSION PROPOSED 36" & 24" PIPELINE TYPICAL BORED ROAD & EQUIPMENT CROSSING AND CONTROL MEASURE

DRAWING SHEET NO RFV 07/13/15 NUMBER: 1657-PL-DG-28158 1 OF 1 2





SYMBOLS

Work Area

Channelizing Device (See Index No. 600)

Work Zone Sign

Lane Identification + Direction of Traffic

DESCRIPTION:

GENERAL NOTES

- 1. When four or more work vehicles enter the through traffic lanes in a one hour period or less (excluding establishing and terminating the work area), the advanced FLAGGER sign shall be substituted for the WORKERS sign. For location of flaggers and FLAGGER signs, see Index No. 603.
- 2. SHOULDER WORK sign may be used as an alternate to the WORKER symbol sign only on the side where the shoulder work is being performed.
- 3. When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ Indexes.
- 4. For general TCZ requirements and additional information, refer to Index No. 600.

DURATION NOTES

- 1. Signs and channelizing devices may be omitted if all of the following conditions are met:
 - a. Work operations are 60 minutes or less.
- b. Vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.

	Т	able	ΙΙ	
Тар	er Ler	ngth -	Shou	ılder
Speed	⅓L (ft)			Notes
(mph)	8'	10'	12'	NOLES
	5hldr.	Shldr.	Shldr.	
25	28	35	42	
30	40	50	60	$L = \frac{WS^2}{60}$
35	55	68	82	60
40	72	90	107	
45	120	150	180	
50	133	167	200	
55	147	183	220	
60	160	200	240	L=WS
65	173	217	260	
70	187	233	280	

minimum shoulder width

 $\frac{1}{3}L$ = Length of shoulder taper in feet

W = Width of total shoulder in feet(combined paved and unpaved width)

S = Posted speed limit (mph)

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH THE AREA CLOSER THAN 15' BUT NOT CLOSER THAN 2' TO THE EDGE OF TRAVEL WAY.

FDOT DESIGN STANDARDS

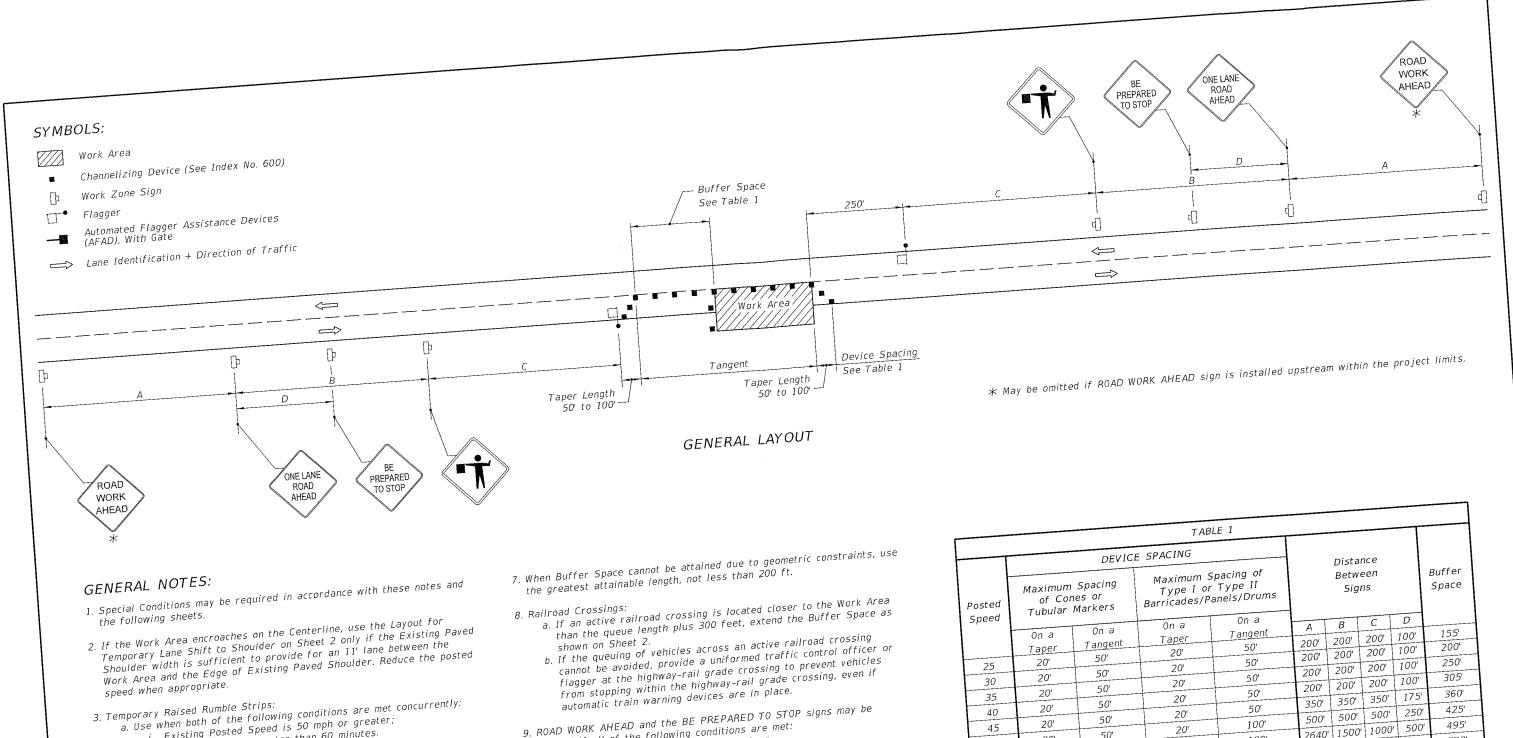
TWO-LANE, TWO-WAY, WORK ON SHOULDER

SHEET INDEX NO. NO.

LAST

REVISION 07/01/15 602

1 of 1



- - i. Existing Posted Speed is 50 mph or greater;
- ii. Work duration is greater than 60 minutes. b. Use a consistent Strip color throughout the work zone.
- c. Place each Rumble Strip Set transversely across the lane at
- d. Use Option 1 or Option 2 as shown on Sheet 2. Use only one option throughout work zone.
- 4. Additional one-way control may be provided by the following means:
 - a. Flag-carrying vehicle;

DESCRIPTION:

- b. Official vehicle; c. Pilot vehicles;
- d. Traffic signals.

When flaggers are the sole means of one-way control, the flaggers must be in sight of each other or in direct communication at all times.

- 5. When a side road intersects the highway within the TTC zone, place additional TTC devices in accordance with other applicable TCZ Indexes.
- 6. The two channelizing devices directly in front of the work area may be omitted provided vehicles in the work area have high-intensity rotating, flashing, oscillating, or strobe lights operating.

- 9. ROAD WORK AHEAD and the BE PREPARED TO STOP signs may be omitted if all of the following conditions are met:
 - a. Work operations are 60 minutes or less.

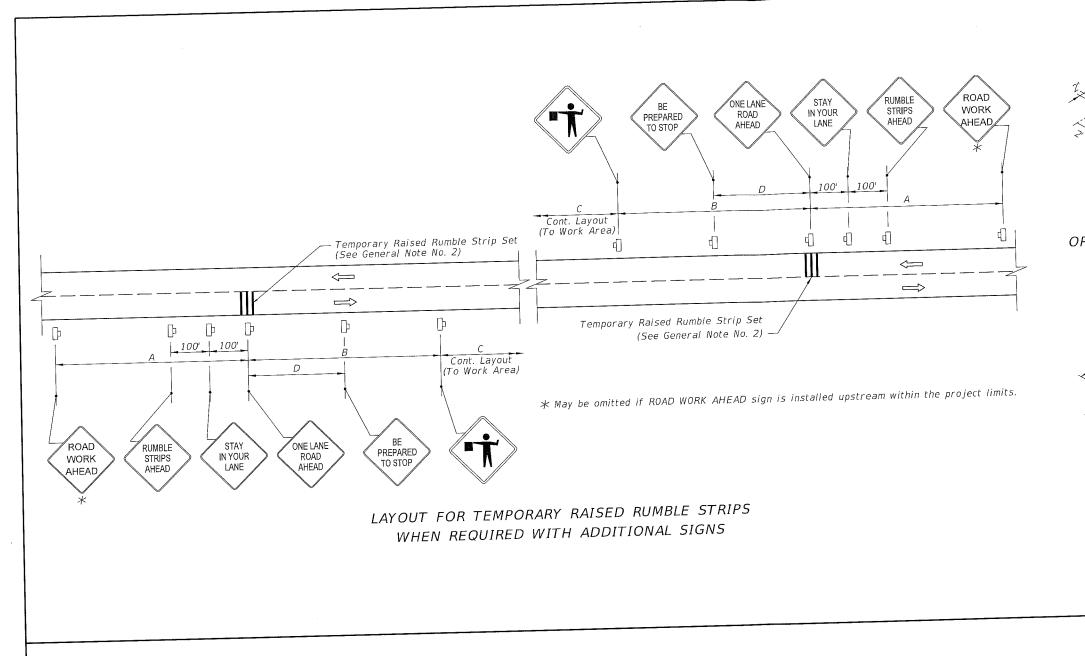
 - c. There are no sight obstructions to vehicles approaching the work area for a distance equal to the Buffer Space shown in Table 1. d. Vehicles in the work area have high-intensity, rotating, flashing,
 - oscillating, or strobe lights operating. e. Volume and complexity of the roadway has been considered.
 - f. If a railroad crossing is present, vehicles will not queue across rail tracks.
 - g. AFADs are not in use.
- 10. See Index 600 for general TCZ requirements and additional information.
- 11. Automated Flagger Assistance Devices (AFADs) may be used in accordance with the Notes on Sheet 3.

			TAB	LE 1					
DEVICE SPACING				Distance					
Posted			Maximum Spacing of Type I or Type II Barricades/Panels/Drums		Between Signs				Buffer Space
Speed	7 40 4		On a	On a	AT	В	С	D	
	On a	On a Tangent	Taper	Tangent	200'	200'	200'	100'	155'
	Taper	50'	20'	50'	200'	200'	200'	100'	200'
25	20'		20'	50'	200'	200'	200'	100'	250'
30	20'	50'	20'	50'		200'	200'	100'	305'
35	20'	50'	20'	50'	200'		350'	175'	360'
40	20'	50'	20'	50'	350'	350'		250'	425'
45	20'	50'		100'	500'	500'	500'		495'
	20'	50'	20'	100'	2640'	1500'			
50	20'	50'	20'	100'	2640	1500'			
55		50'	20'		2640	1500	1000		
60	20'	50'	20'	100'	2640		1000	500	730'
65	20'		20'	100'	2040				
70	20'	50'							

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH THE AREA BETWEEN THE CENTERLINE AND A LINE 2' OUTSIDE THE EDGE OF TRAVEL WAY.

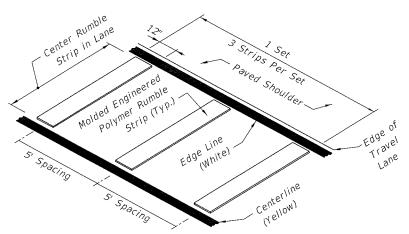
	2016			
FDOT	DESIGN	ST AND ARDS		
DE				



2"

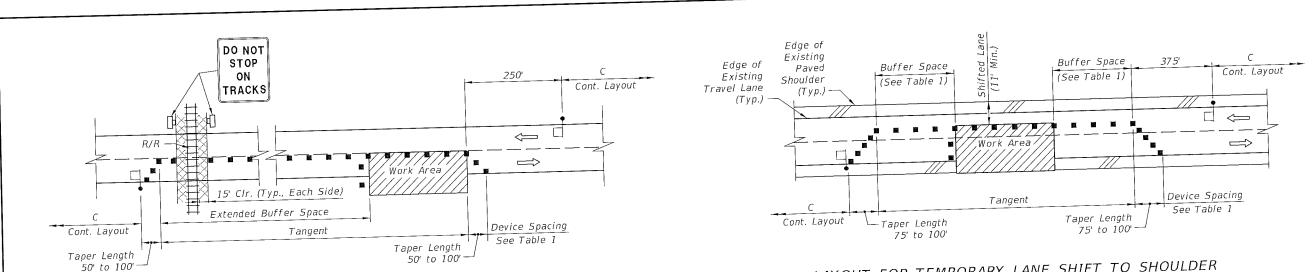
A Strips Set

OPTION 1 - REMOVABLE POLYMER STRIPING TAPE RUMBLE STRIP SET



OPTION 2 - MOLDED ENGINEERED POLYMER RUMBLE STRIP SET

TEMPORARY RAISED RUMBLE STRIPS



LAYOUT FOR RAILROAD CROSSING BUFFER SPACE EXTENSION LAYOUT FOR TEMPORARY LANE SHIFT TO SHOULDER WHEN WORK AREA ENCROACHES ON THE CENTERLINE

SPECIAL CONDITIONS

LAST REVISION 07/01/15 A DESCRIPTION:

2016

DESIGN STANDARDS

TWO-LANE, TWO-WAY,
WORK WITHIN THE TRAVEL WAY

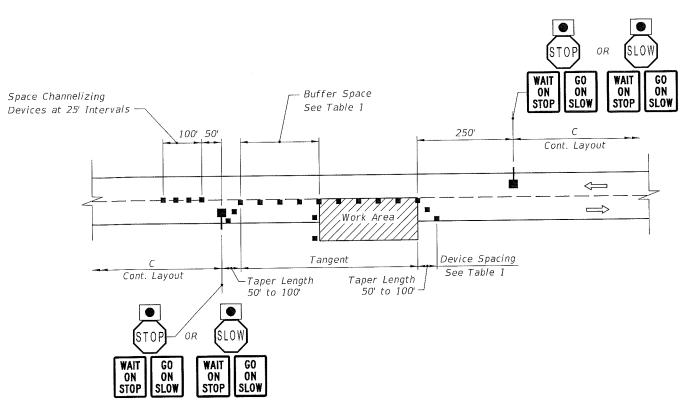
INDEX SHEET NO. NO. 2 of 3

- 1. Illuminate the flagging station when the AFAD is used at nighttime.
- 2. When the AFAD is not in use, remove or cover signs and move AFAD device outside the clear zone or shield it with a barrier or crash cushion.
- 3. Only qualified flaggers who have been trained in the operation of the AFAD may operate the AFAD. When in use, each AFAD must be in view of and attended at all times by the flagger operating the device. Use two flaggers and one of the following methods in the deployment of AFAD's:

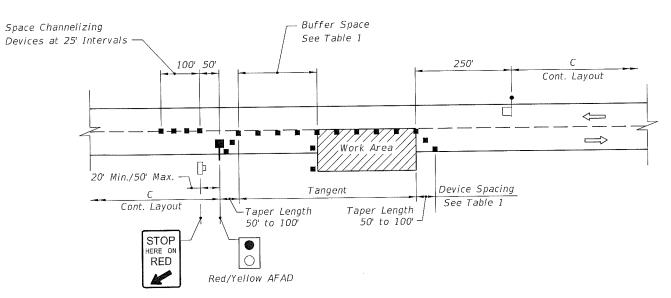
Method 1:Place an AFAD at each end of the temporary traffic control zone.

Method 2:Place an AFAD at one end of the temporary traffic
control zone and a flagger at the opposite end.

- 4. A single flagger may simultaneously operate two AFAD's (Method 1) or may operate a single AFAD on one end of the temporary traffic control zone while being the flagger at the opposite end of the temporary traffic control zone (Method 2) if all four of the following conditions are present:
 - a. The flagger has an unobstructed view of the AFAD(s);
 - b. The flagger has an unobstructed view of approaching traffic in both directions;
 - c. For Method 1, the AFAD's are less than 800 ft apart. For Method 2, the AFAD and the flagger are less than 800 ft apart.
 - d. Two trained flaggers are available on-site to provide normal flagging operations should an AFAD malfunction.



LAYOUT FOR STOP/SLOW AFAD METHOD 1 - 2 AFAD's



LAYOUT FOR RED/YELLOW AFAD METHOD 2 - 1 AFAD & FLAGGER

AUTOMATED FLAGGER ASSISTANCE DEVICES (AFADS)

6/16/2015

LAST REVISION 07/01/15

DESCRIPTION:

