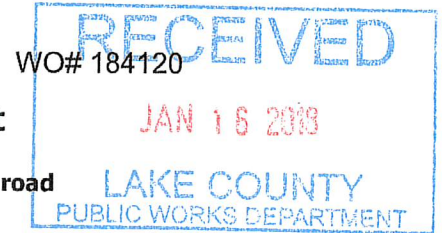




Right-of-Way Utilization Permit



Please complete a separate application for each road

Date: 1/16/2018
SECO Energy
 Business / Applicant's Name:
PO Box 301
 Applicant's Street Address
Sumterville, FL 33585-0301
 Applicant's City, State, Zip
407-232-5661
 Telephone Number
sherry.fogarty@secoenergy.com
 Applicant's e-mail address

13 / 17 / 28
 Section Township Range
CR 42
 Project Road Name
N/A
 Subdivision and/or Site Plan Name (if applicable)
 withheld per Land Development Regulations
 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: ANNUAL FPSC POLE REPLACEMENTS-REPLACE WOOD POLES AND FACILITIES WITH WOOD POLES RANGING FROM 35' TO 50 IN HEIGHT

Contractor: Chris Ledford Telephone Number: 352-636-4724
 Start of Construction Date: MARCH 1, 2018 Construction duration: 90 days
 Is proposed work within city limits? NO If so, what city? _____

A letter of notification was mailed on 48 hours prior to construction to the following utilities & municipalities:
ALL JOINT USERS ON POLES

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 application requirements and permit conditions.

Sherry Fogarty
 Signature of Applicant

Sherry Fogarty
 Applicant (Print Name)

| | | |
|---------------------------------|---------------------------------|-----------------------|
| Road # <u>8940</u> | To be completed by County Staff | |
| Permit # <u>8014</u> | Permit Fee: \$100.00 | Fee Code: <u>PWRW</u> |
| Checked by: <u>[Signature]</u> | Date Checked: <u>1/30/18</u> | |
| Approved by: <u>[Signature]</u> | Date Approved: <u>1-30-18</u> | |
| Special Conditions: _____ | Expiration Date: <u>1/30/19</u> | |

For inspection, call the Lake County Public Works Department at 352-253-6019
Submit Permit to: Lake County Public Works, Post Office Box 7800, Tavares, FL 32778

Public Works Department
 Road Operations Division

| | |
|------------------|----------------|
| Entered Data One | <u>1/25/18</u> |
| | <u>1/25/18</u> |
| | <u>3/5/19</u> |
| | <u>3/5/18</u> |
| | <u>3/5/18</u> |

Right-of-Way Utilization Permit
 Effective February 2017



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 or irrevocable letter of credit 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 security instrument shall comply with the applicable provisions of the Florida Statutes for public construction bonds and is in a form acceptable to the County Attorney's Office. The security instrument shall be made payable to the County in the amount of one hundred ten (110%) of estimated cost to repair such damage, as determined by Lake County, and shall remain in effect until the work covered by the right-of-way utilization permit has been completed and accepted by the 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.

Public Works Department
Road Operations Division

Right-of-Way Utilization Permit
Effective February 2017

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 Statutes, 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 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.

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.

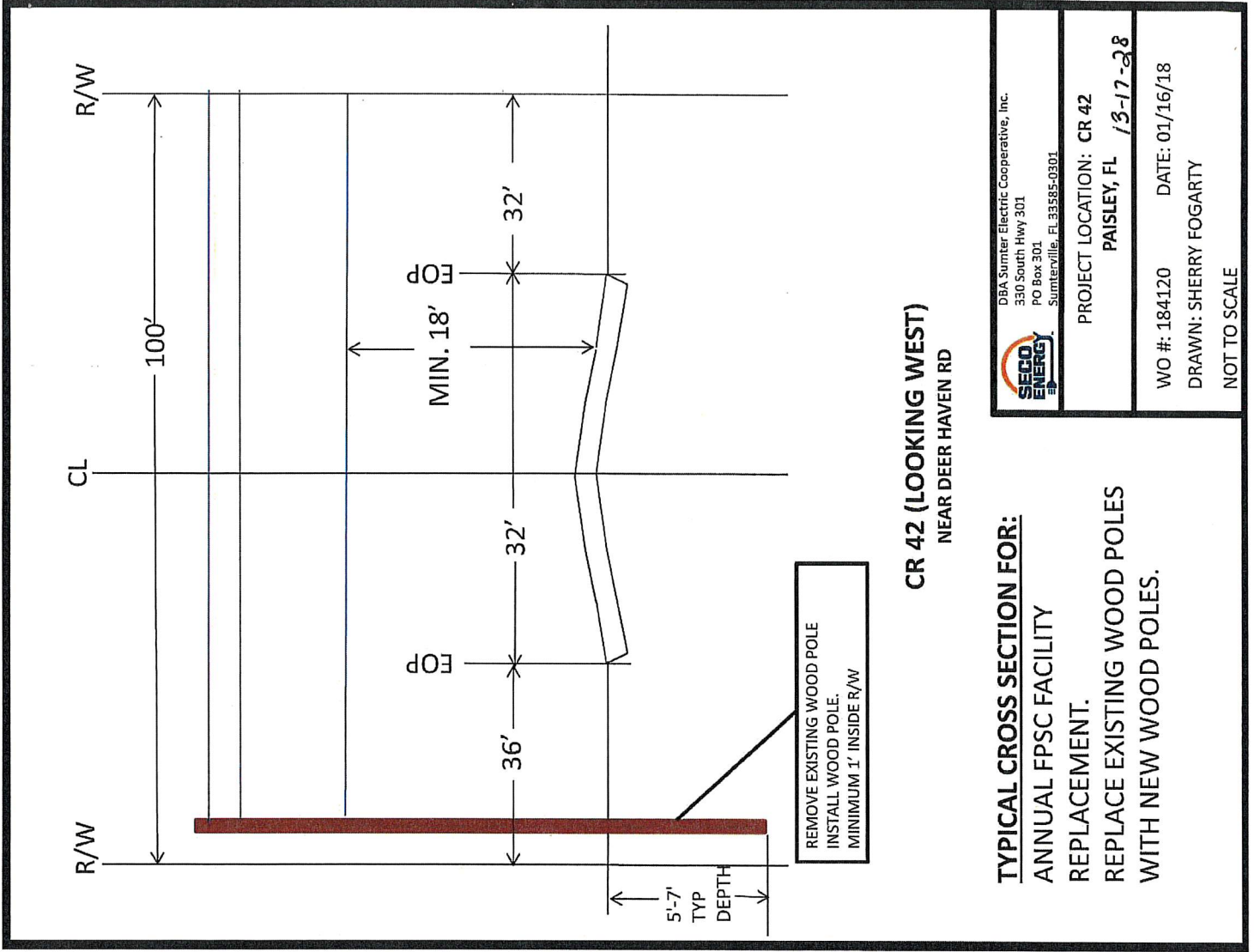
It is understood and agreed that the rights and privileges herein set out are granted only to the extent of the County's right, title and interest in the land to be entered upon and used by the holder, and the holder will, at all times, assume all risk of and indemnify, defend and save harmless the County of Lake 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

Sherry Jorgarty 1-16-18
Applicant's Signature/Date

CONSTRUCTION NOTES

- Contractor to restore right of way to equal or better than existing condition.
- Contractor shall maintain an uninterrupted access to all driveways, sidewalks and side streets at all times unless otherwise approved.
- All other right of way users and municipalities in the immediate vicinity of the proposed construction/installation have been notified in writing.
- Minimum height of overhead wires and cables is 18 feet over roadways and 16 feet over driveways.



TYPICAL CROSS SECTION FOR:
ANNUAL FPSC FACILITY
REPLACE EXISTING WOOD POLES
WITH NEW WOOD POLES.

SFCO ENERGY
 DBA Sumter Electric Cooperative, Inc.
 330 South Hwy 301
 PO Box 301
 Sumterville, FL 33585-0301

PROJECT LOCATION: CR 42
 PAISLEY, FL 13-17-28

WO #: 184120 DATE: 01/16/18
 DRAWN: SHERRY FOGARTY
 NOT TO SCALE

Legend

- Pole
 - Aluminum
 - Concrete
 - Fiberglass
 - Wood
 - Planned
- Street Lights
 - Existing
- Flare
 - Closed - Existing
 - Open - Existing
 - Planned
- Service
 - Existing
 - Planned
- Underground Transformer
 - Existing
 - Planned
- Elbow
 - Closed
 - Open
- Cabinet
 - Existing
 - Planned
- Secondary Enclosure
 - Existing
 - Planned
- Primary UG Conductor
 - A Phase
 - B Phase
 - C Phase
 - Dual Phase
 - Three Phase
 - Planned
- Conduit Planned
 - 1 inch
 - 2 inch
 - 3 inch
 - 4 inch
 - 6 inch
 - 8 inch

2018 FPSC POLE

Comment: REPL. SJ1

Aid to Construction:

W/O Number: 184120

PREPARED BY:
SHERRY FOGARTY

Customer Name: SECO

Date:



CR 42
NEAR DEER HAVEN RD
3 LOCATIONS

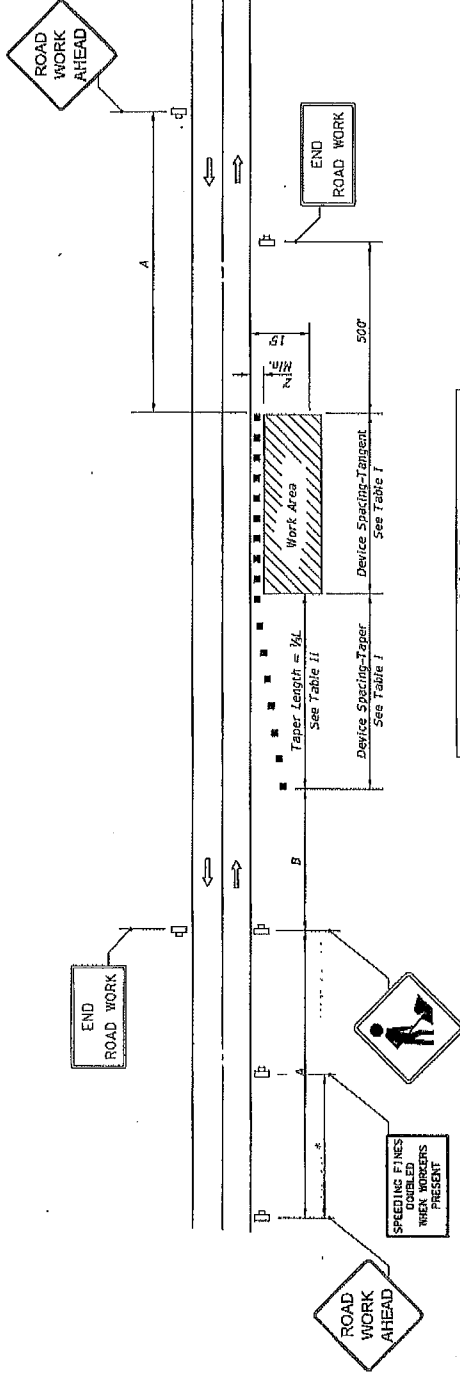


Table II
Taper Length - Shoulder

| Speed (mph) | 1/2L (ft) | | | Notes |
|-------------|-----------|------------|------------|-------|
| | 8' Shldr. | 10' Shldr. | 12' Shldr. | |
| 25 | 28 | 35 | 42 | WS* |
| 30 | 40 | 50 | 60 | |
| 35 | 55 | 68 | 82 | L=WS |
| 40 | 72 | 90 | 107 | |
| 45 | 120 | 150 | 180 | L=WS |
| 50 | 133 | 167 | 200 | |
| 55 | 147 | 183 | 220 | L=WS |
| 60 | 160 | 200 | 240 | |
| 65 | 173 | 217 | 260 | L=WS |
| 70 | 187 | 233 | 280 | |

8 Minimum shoulder width
 1/2L = Length of shoulder taper in feet
 W = Width of total shoulder in feet (combined paved and unpaved width)
 S = Posted speed limit (mph)

Table I
Device Spacing

| Speed (mph) | Max. Distance Between Devices (ft.) | | |
|-------------|-------------------------------------|--|---------------|
| | Cones or Tubular Markers | Type I or Type II Barricades or Vertical Panels or Drums | Tangent Taper |
| 25 | 25 | 50 | 50 |
| 30 to 45 | 25 | 50 | 50 |
| 50 to 70 | 25 | 50 | 100 |

DISTANCE BETWEEN SIGNS

| Speed | Spacing (ft.) | |
|-------------------|---------------|-----|
| | A | B |
| 40 mph or less | 200 | 300 |
| 45 mph | 350 | 500 |
| 50 mph or greater | 500 | 500 |

*Midway between signs.

GENERAL NOTES

- 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.
- 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.
- When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ indexes.
- For general TCZ requirements and additional information, refer to Index No. 600.

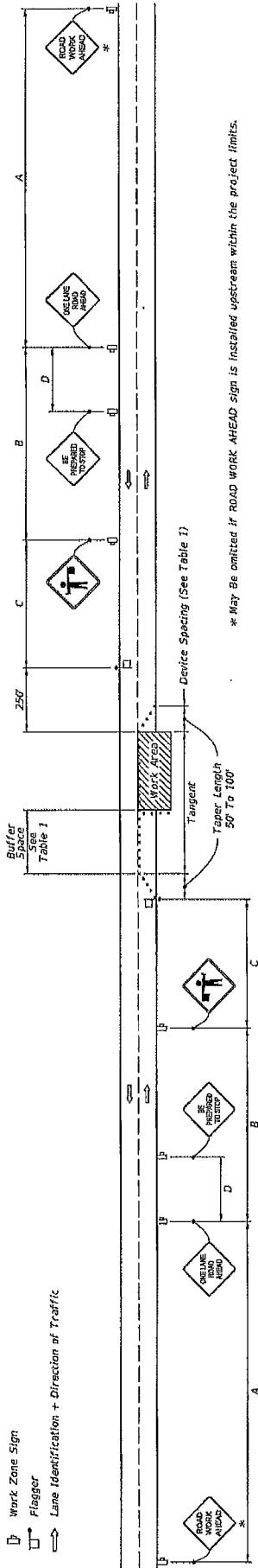
DURATION NOTES

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

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.

SYMBOLS:

- Work Area
- Channelizing Device (See Index No. 600)
- Work Zone Sign
- Flagger
- Lane Identification + Direction of Traffic



WITHOUT TEMPORARY RAISED RUMBLE STRIPS

GENERAL NOTES:

1. Special Conditions may be required in accordance with these notes and the following sheets:
 - A. Railroad Crossings:
 - a. If an active railroad crossing is located closer to the Work Area than the queue length plus 300 feet, extend the Buffer Space as shown on Sheet 3.
 - b. If the queuing of vehicles across an active railroad crossing cannot be prevented, the Buffer Space shall be extended to prevent vehicles from stopping within the highway-rail grade crossing, even if automatic train warning devices are in place.
 - B. If the Work Area encroaches on the Centerline, use the Layout for Temporary Lane Shift to Shoulder on Sheet 3 only if the existing centerline is within the Buffer Space and the Edge of Existing Paved Shoulder. Reduce the posted speed when appropriate.
2. Temporary Raised Rumble Strips:
 - A. Use when both of the following conditions are met concurrently:
 - a. Existing Posted Speed is 55 mph or greater;
 - b. 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 locations shown on Sheet 1 or option 2 as shown on Sheet 2. Use only one option throughout work zone.
3. Additional one-way control may be provided by the following means:
 - A. Flagging vehicles;
 - B. One-way traffic;
 - 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.
4. When a side road intersects the highway within the TTC zone, place additional TTC devices in accordance with other applicable TTC indexes.
5. 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.
6. When Buffer Space cannot be attained due to geometric constraints, use the greatest attainable length, not less than 200 ft, for posted speeds greater than 25 mph.
7. ROAD WORK AHEAD and BE PREPARED TO STOP signs may be omitted if all of the following conditions are met:
 - A. Work operations are 60 minutes or less.
 - B. Speed limit is 45 mph or less.
 - C. There are no sight obstructions to vehicles approaching the work area for the duration of the work.
 - 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.
8. See Index 600 for general TCZ requirements and additional information.
9. Automated Flagger Assistance Devices (AFADs) may be used in accordance with Specifications Section 102.550 and the APT Vendor drawings.

TABLE 1

| Posted Speed | DEVICE SPACING | | | | Distance Between Signs | | | | Buffer Space |
|--------------|---|--------------|--|--------------|------------------------|-------|-------|------|--------------|
| | Maximum Spacing of Cones or Tubular Markers | | Maximum Spacing of Type I or Type II Barricades/Panels/Drums | | A | B | C | D | |
| | On a Taper | On a Tangent | On a Taper | On a Tangent | | | | | |
| 25 | 20' | 50' | 20' | 50' | 200' | 200' | 200' | 100' | 155' |
| 30 | 20' | 50' | 20' | 50' | 200' | 200' | 200' | 100' | 200' |
| 35 | 20' | 50' | 20' | 50' | 200' | 200' | 200' | 100' | 250' |
| 40 | 20' | 50' | 20' | 50' | 200' | 200' | 200' | 100' | 305' |
| 45 | 20' | 50' | 20' | 50' | 350' | 350' | 350' | 175' | 360' |
| 50 | 20' | 50' | 20' | 100' | 500' | 500' | 500' | 250' | 475' |
| 55 | 20' | 50' | 20' | 100' | 2640' | 1500' | 1000' | 500' | 495' |
| 60 | 20' | 50' | 20' | 100' | 2640' | 1500' | 1000' | 500' | 570' |
| 65 | 20' | 50' | 20' | 100' | 2640' | 1500' | 1000' | 500' | 645' |
| 70 | 20' | 50' | 20' | 100' | 2640' | 1500' | 1000' | 500' | 730' |

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.

LAST REVISION 01/01/16

FDOT DESIGN STANDARDS

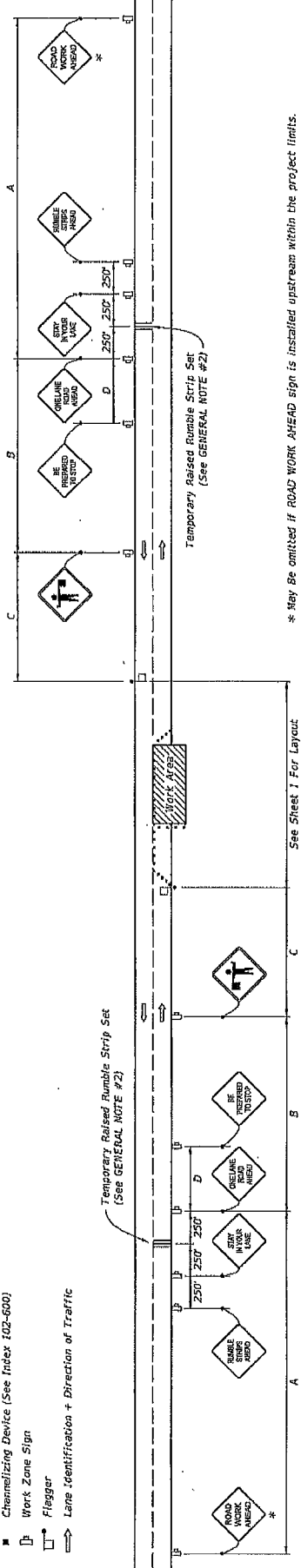
TWO-LANE, TWO-WAY, WORK WITHIN THE TRAVEL WAY

INDEX NO. 603

SHEET NO. 1 of 3

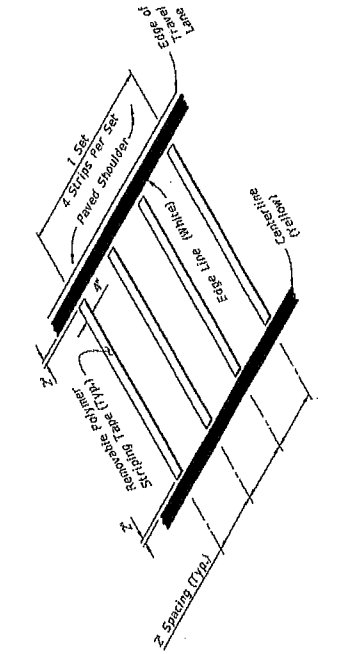
SYMBOLS:

- Work Area
- Chemicalizing Device (See Index 102-600)
- Work Zone Sign
- Flagger
- Lane Identification + Direction of Traffic



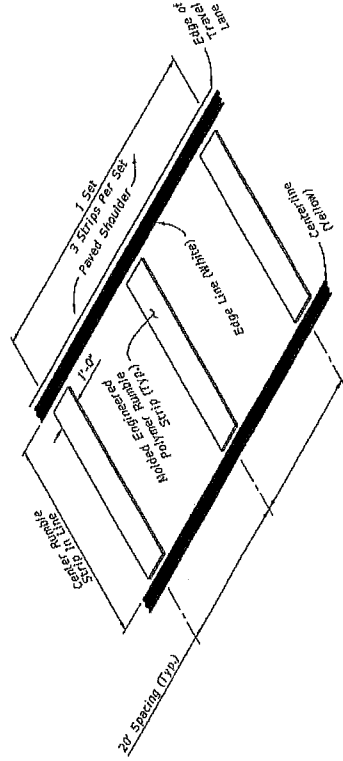
* May Be omitted if ROAD WORK AHEAD sign is installed upstream within the project limits.

WITH TEMPORARY RAISED RUMBLE STRIPS
(When Required See GENERAL NOTE #2)



REMOVABLE POLYMER STRIPING TAPE

RUMBLE STRIP SET
OPTION - 1



MOLDED ENGINEERED POLYMER SET






RUMBLE STRIP SET
OPTION - 2

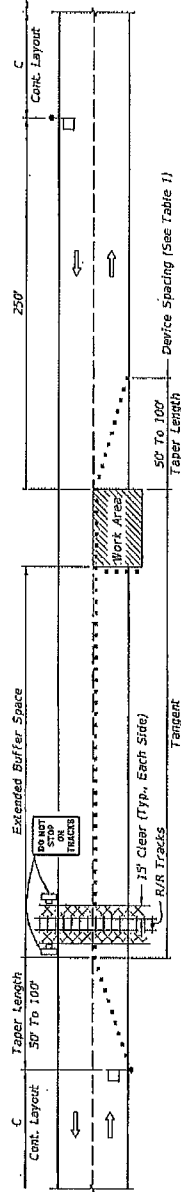
TEMPORARY RAISED RUMBLE STRIPS

| | | |
|--------------------------------------|--|-----------|
| DESCRIPTION: | INDEX NO. | SHEET NO. |
| REVISION | 603 | 2 of 3 |
| <p> </p> FY 2017-18 DESIGN STANDARDS | TWO-LANE, TWO-WAY, WORK WITHIN THE TRAVEL WAY | |

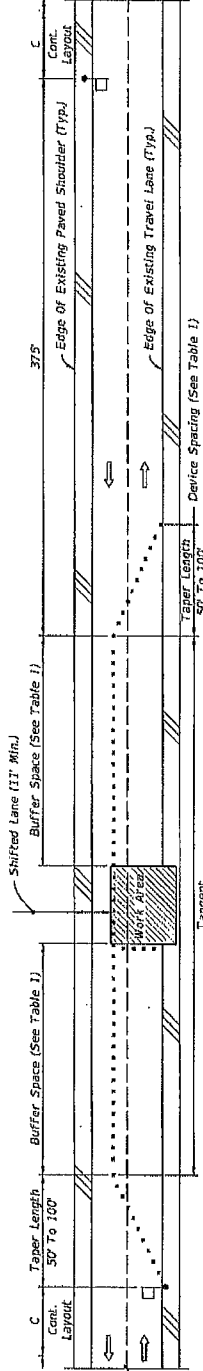
| | |
|---------------|----------|
| LAST REVISION | II/01/17 |
|---------------|----------|

SYMBOLS:

-  Work Area
-  Channelizing Device (See Index No. 600)
-  Work Zone Sign
-  Flagger
-  Lane Identification + Direction of Traffic



TEMPORARY RAILROAD CROSSING BUFFER SPACE EXTENSION



TEMPORARY LANE SHIFT TO SHOULDER WHEN WORK AREA ENCOACHES ON THE CENTERLINE

SPECIAL CONDITIONS

Cross Reference:
1. See General Note #7, Sheet 1 for more information.

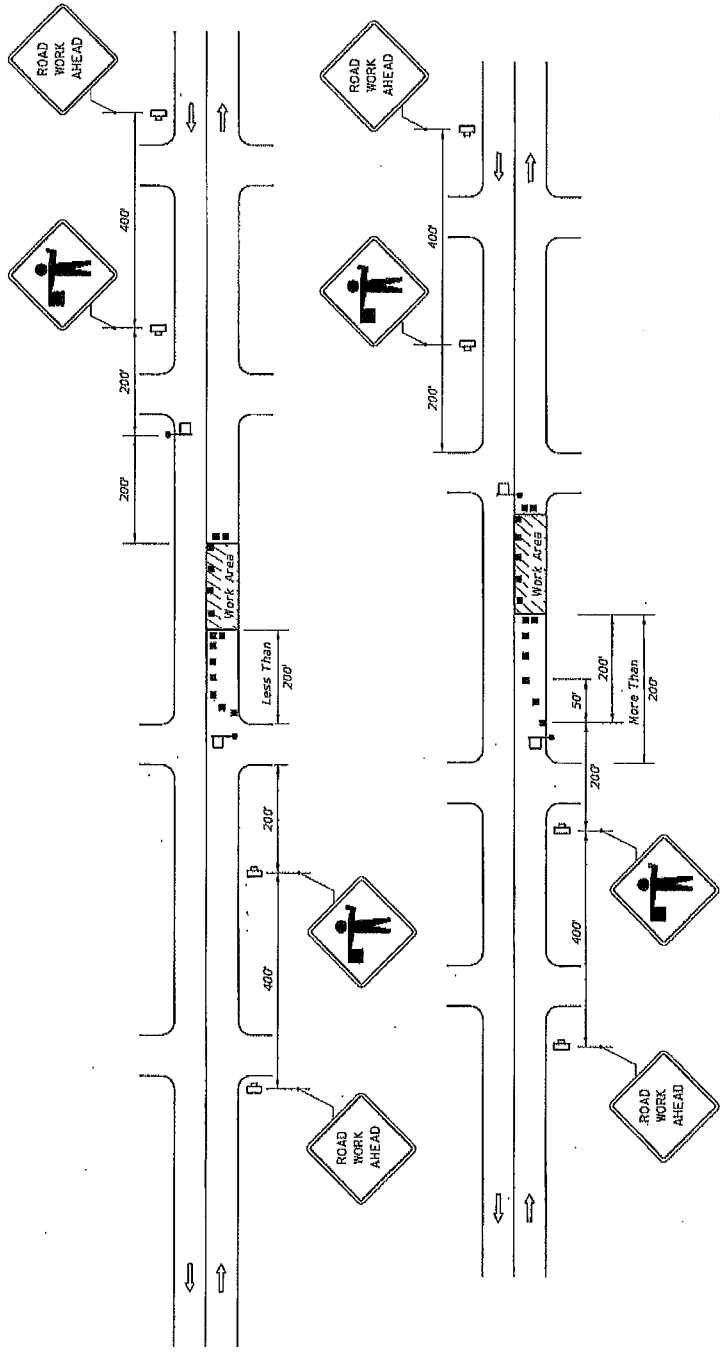
| | |
|---------------|----------|
| LAST REVISION | 01/01/16 |
| DESCRIPTION: | |

FDOT
DESIGN STANDARDS
FY 2017-18

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

INDEX NO.
603

SHEET NO.
3 of 3



CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCOACH ON THE PAVEMENT REQUIRING THE CLOSURE OF ONE TRAFFIC LANE, FOR WORK AREAS LESS THAN 200' DOWNSTREAM FROM AN INTERSECTION FOR A PERIOD OF MORE THAN 60 MINUTES.

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCOACH ON THE PAVEMENT REQUIRING THE CLOSURE OF ONE TRAFFIC LANE, FOR WORK AREAS 200' OR MORE DOWNSTREAM FROM AN INTERSECTION FOR A PERIOD OF MORE THAN 60 MINUTES.

SYMBOLS

- Work Area
- Channelizing Device (See Index No. 600)
- Work Zone Sign
- Flagger
- Lane Identification + Direction of Traffic

GENERAL NOTES

1. Work operations shall be confined to one travel lane, leaving the opposing travel lane open to traffic.
2. When vehicles in a marking zone block the line of sight to TCZ signs or when TCZ signs encroach on a normal pedestrian walkway, the signs shall be post mounted and located in accordance with Index No. 7302.
3. If work area is confined to an outside auxiliary lane, the work area shall be barricaded and the FLAGGER sign, replaced by ROAD WORK AHEAD signs. Flaggers are not required.
4. Flaggers shall be in sight of each other or in direct communication at all times.
5. The FLAGGER legend sign may be substituted for the symbol sign.
6. The maximum spacing between devices shall be no greater than 25'.
7. For general TCZ requirements and additional information, refer to Index No. 600.
8. The two channelizing devices directly in front and directly at the end of the work area may be omitted provided vehicles in the work area have high-intensity rotating, flashing, oscillating, or strobe lights operating.
9. Use Temporary Raised Bumble Strips in accordance with Index 603. Placement of Bumble Strips and additional signs should begin at FLAGGER sign location.

DURATION NOTES

1. ROAD WORK AHEAD sign may be omitted if all of the following conditions are met:
 - a. Work operations are 60 minutes or less.
 - b. Speed is 45 mph or less.
 - c. No sight obstructions to vehicles approaching the work area for a distance of 500 feet.
 - 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.

LAST REVISION 07/07/15

FDOT DESIGN STANDARDS

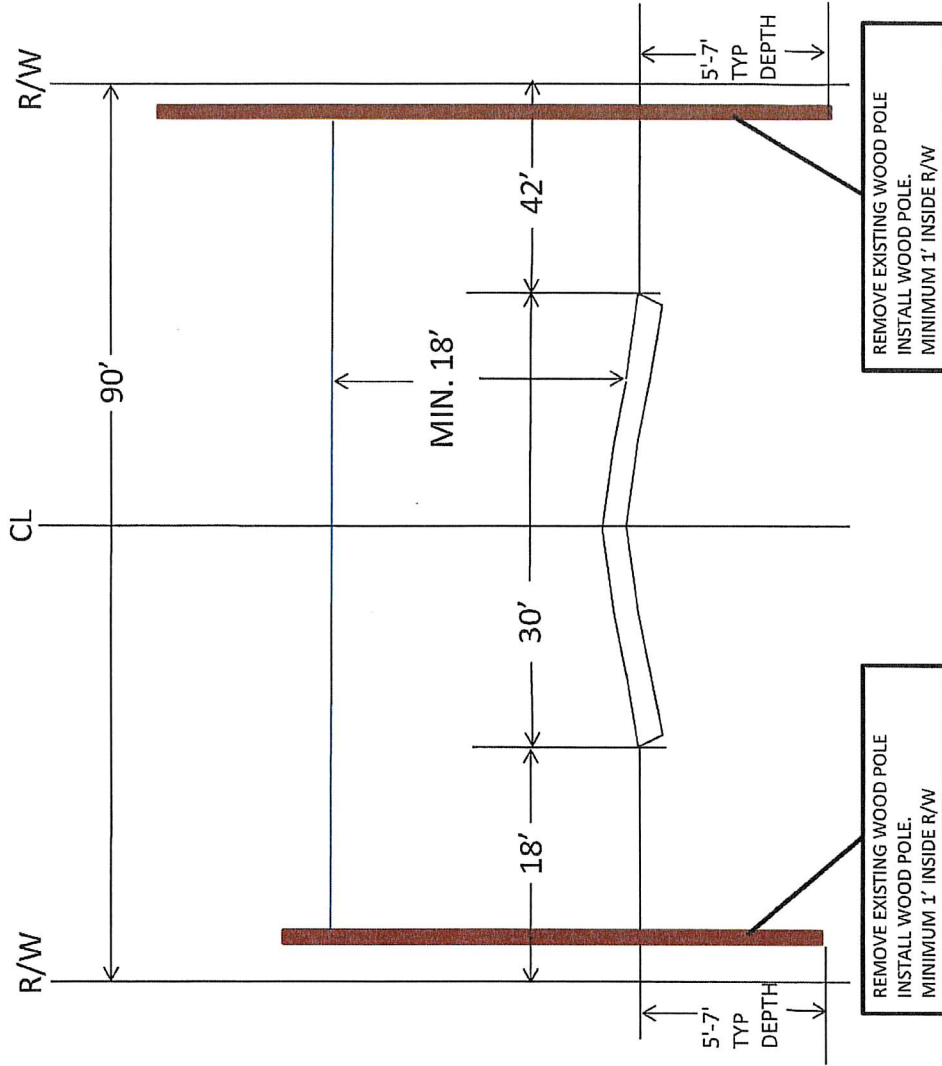
INDEX NO. 605

SHEET NO. 1 of 1

TWO-LANE, TWO-WAY, WORK NEAR INTERSECTION

CONSTRUCTION NOTES

- Contractor to restore right of way to equal or better than existing condition.
- Contractor shall maintain an uninterrupted access to all driveways, sidewalks and side streets at all times unless otherwise approved.
- All other right of way users and municipalities in the immediate vicinity of the proposed construction/installation have been notified in writing.
- Minimum height of overhead wires and cables is 18 feet over roadways and 16 feet over driveways.



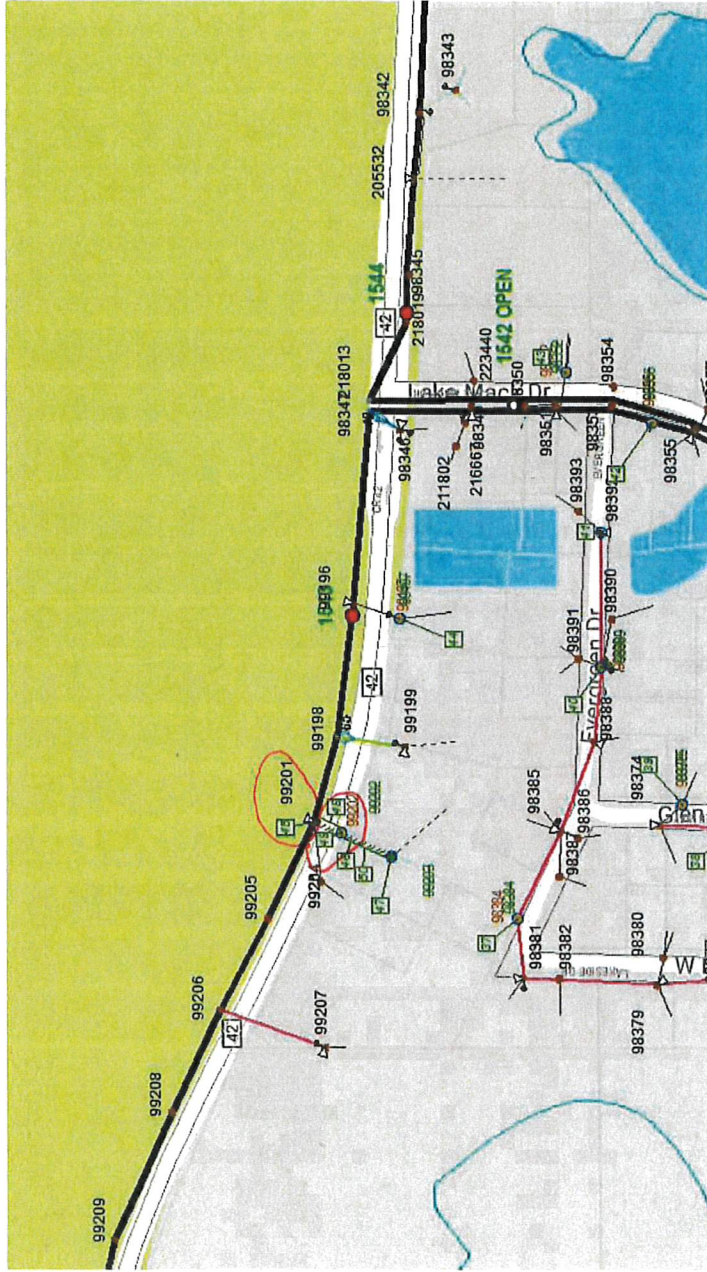
**CR 42 (LOOKING WEST)
850' WEST OF LAKE MACK DR**

**TYPICAL CROSS SECTION FOR:
ANNUAL FPSC FACILITY
REPLACEMENT.
REPLACE EXISTING WOOD POLES
WITH NEW WOOD POLES**

SECO ENERGY
DBA Sumter Electric Cooperative, Inc.
330 South Hwy 301
PO Box 301
Sumterville, FL 33585-0301

PROJECT LOCATION: CR 42
DELAND, FL 17-17-29

WO #: 184120 DATE: 1/16/2018
DRAWN: SHERRY FOGARTY
NOT TO SCALE



CR 42
WEST OF LAKE MACK DR
2 LOCATIONS

| | | | | | | |
|---|----------------------|--------------------|--------------------------------|---------------------|-------|-------------|
| 2018 FPSC POLE Comment: REPL. SJ1 | Aid to Construction: | W/O Number: 184120 | PREPARED BY: SHERRY FOGARTY | Customer Name: SECO | Date: | PAGE 1 OF 1 |
|---|----------------------|--------------------|--------------------------------|---------------------|-------|-------------|

Legend

Pole
Aluminum
Concrete
Vinylglass
Wood
Planned

Street Lights
Existing

Fuse
Closed - Existing
Open - Existing
Planned

Service
Existing
Planned

Underground Transformer
Existing
Planned

Elbow
Closed
Open

Cabinet
Existing
Planned

Secondary Enclosure
Existing
Planned

Primary US Conductor
A Phase
B Phase
C Phase
Dual Phase
Three Phase
Planned

Conduit Planned
1 inch
2 inch
2.5 inch
3 inch
4 inch
5 inch
6 inch

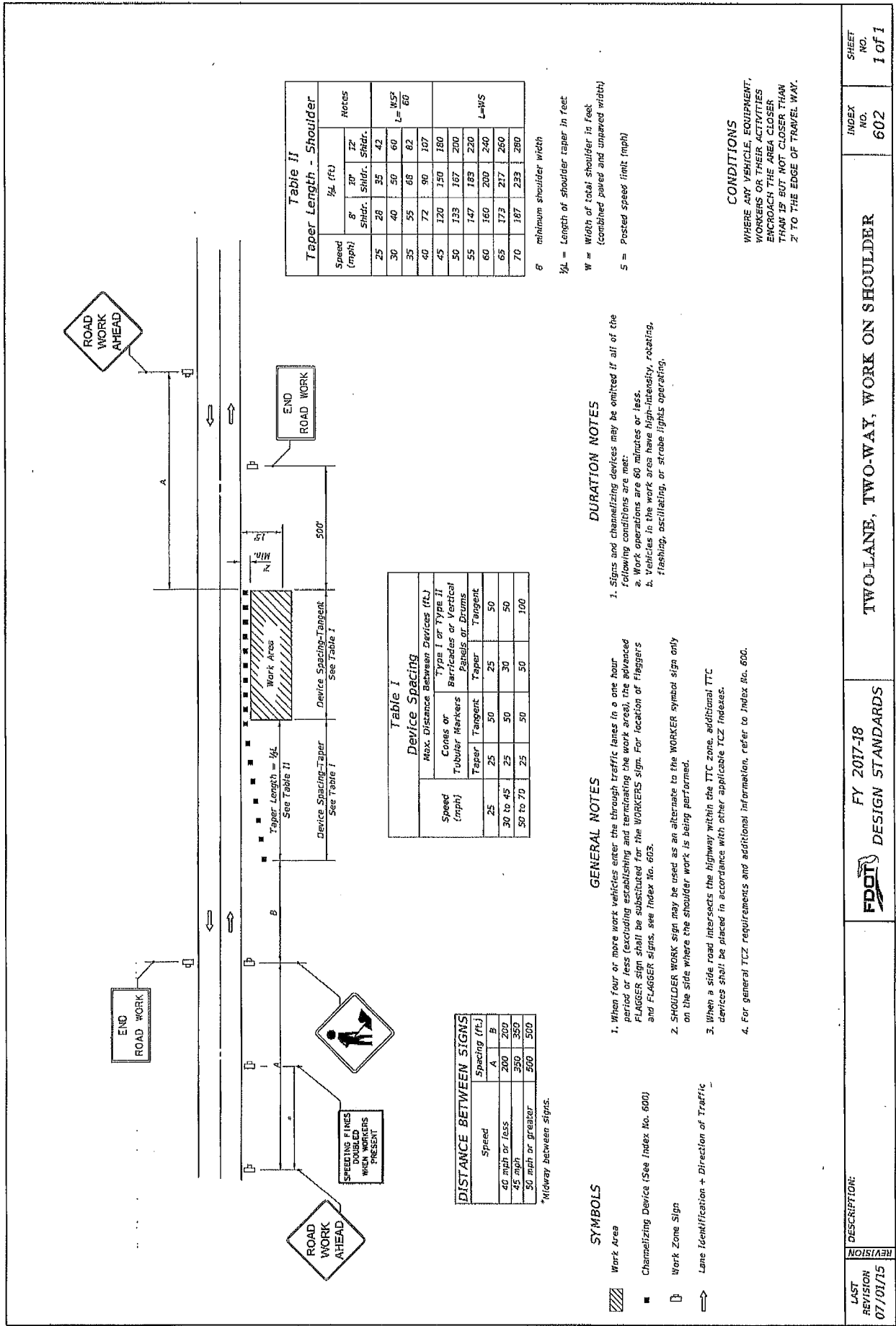


Table II
Taper Length - Shoulder

| Speed (mph) | 1/4 L (ft) | | Notes |
|-------------|------------|------------|-------|
| | 8' Shldr. | 12' Shldr. | |
| 25 | 28 | 35 | 42 |
| 30 | 40 | 50 | 60 |
| 35 | 55 | 68 | 82 |
| 40 | 72 | 90 | 107 |
| 45 | 120 | 150 | 180 |
| 50 | 133 | 167 | 200 |
| 55 | 147 | 183 | 220 |
| 60 | 160 | 200 | 240 |
| 65 | 173 | 217 | 260 |
| 70 | 187 | 233 | 280 |

Table I
Device Spacing

| Speed (mph) | Max. Distance Between Devices (ft) | | Type I or Type II Cones or Tubular Markers | Taper | Tangent |
|-------------|------------------------------------|---------|--|-------|---------|
| | Taper | Tangent | | | |
| 25 | 25 | 50 | 25 | 50 | 50 |
| 30 to 45 | 25 | 50 | 30 | 50 | 50 |
| 50 to 70 | 25 | 50 | 50 | 50 | 100 |

DISTANCE BETWEEN SIGNS

| Speed | Spacing (ft) | |
|-------------------|--------------|-----|
| | A | B |
| 40 mph or less | 200 | 200 |
| 45 mph | 350 | 350 |
| 50 mph or greater | 500 | 500 |

*Midway between signs.

SYMBOLS

- Work Area
- Channelizing Device (See Index No. 600)
- Work Zone Sign
- Lane Identification + Direction of Traffic

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 TTC indexes.
4. For general TTC 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.

CONDITIONS

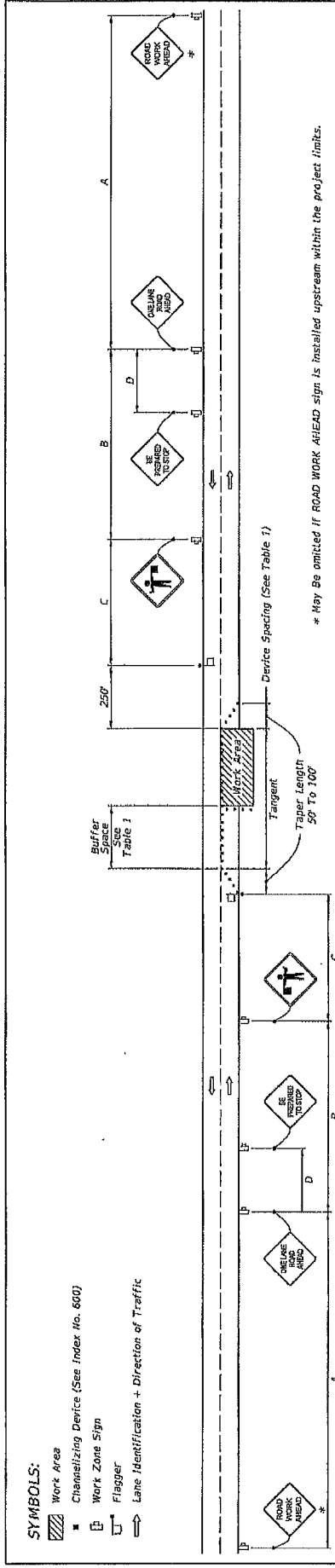
WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCRoACH THE AREA CLoSER THAN 15' BUT NOT CLoSER THAN 2' TO THE EDGE OF TRAVEL WAY.

| | |
|---------------|----------|
| LAST REVISION | REVISION |
| 07/03/15 | |

FDOT
DESIGN STANDARDS

TWO-LANE, TWO-WAY, WORK ON SHOULDER

| | |
|-----------|-----------|
| INDEX NO. | SHEET NO. |
| 602 | 1 of 1 |



* May be omitted if ROAD WORK AHEAD sign is installed upstream within the project limits.

WITHOUT TEMPORARY RAISED RUMBLE STRIPS

GENERAL NOTES:

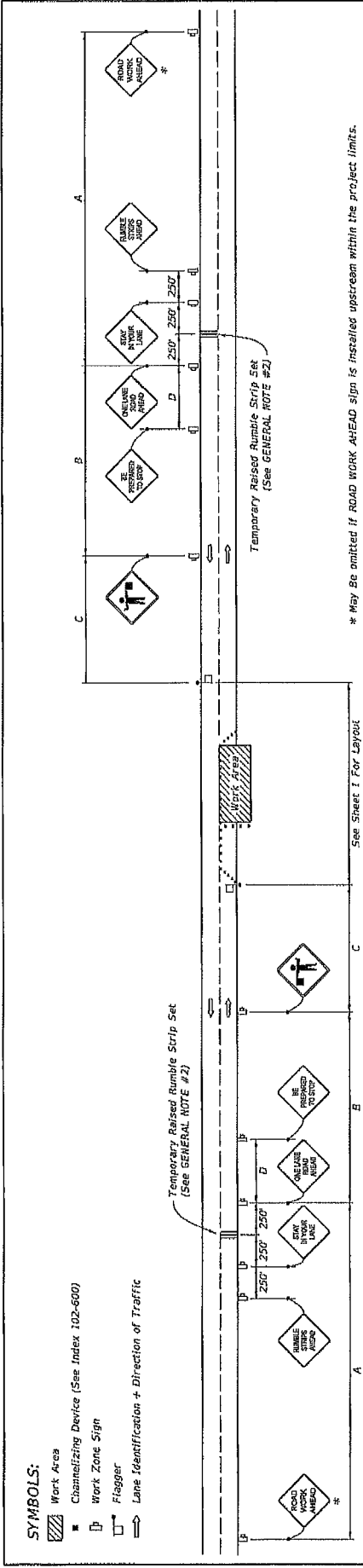
- Special Conditions may be required in accordance with these notes and the following sheets:
 - Channelizing Device (See Index No. 600)
 - Work Zone Sign
 - Flagger
 - Lane Identification + Direction of Traffic
- When a side road intersects the highway within the TTC zone, place additional TTC devices in accordance with other applicable TTC indexes.
- 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.
- When Buffer Space cannot be attained due to geometric constraints, use the greatest attainable length, not less than 200 ft, for posted speeds greater than 25 mph.
- ROAD WORK AHEAD and the BE AHEAD TO STOP signs may be omitted if all of the following conditions are met:
 - Work operations are 60 minutes or less.
 - Speed limit is 45 mph or less.
 - Work area is less than 100 ft long.
 - A distance equal to the Buffer Space shown in Table 1 is maintained between the Work Area and the Edge of Existing Paved Shoulder.
 - Vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.
 - Volume and complexity of the roadway has been considered.
 - If a railroad crossing is present, vehicles will not queue across rail tracks.
 - AFADs are not in use.
- See Index 600 for general TTC requirements and additional information.
- Automated Flagger Assistance Devices (AFADs) may be used in accordance with Specifications Section 102.990 and the APL vendor drawings.

Additional one-way control may be provided by the following means:
 a. Flagger;
 b. Official vehicles;
 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.

TABLE 1
DEVICE SPACING

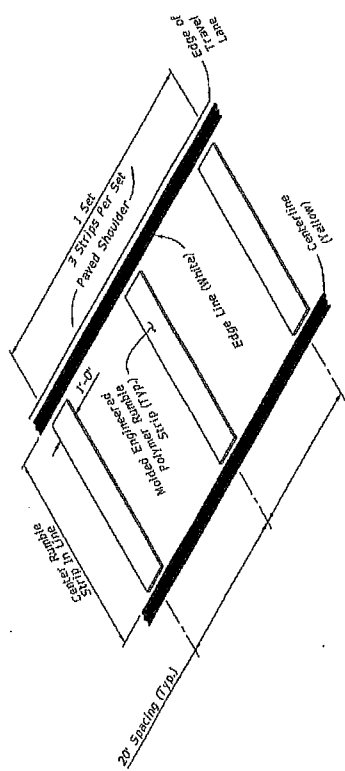
| Posted Speed | Maximum Spacing of Cones or Tubular Markers | | | | Maximum Spacing of Barricades/Panels/Drums | | | | Distance Between Signs | | | | Buffer Space |
|--------------|---|-----|--------------|-----|--|-----|--------------|------|------------------------|-------|-------|------|--------------|
| | On a Taper | | On a Tangent | | On a Taper | | On a Tangent | | A | B | C | D | |
| | 20' | 50' | 20' | 50' | 20' | 50' | 20' | 50' | 200' | 200' | 200' | 100' | |
| 25 | 20' | 50' | 20' | 50' | 20' | 50' | 20' | 50' | 200' | 200' | 200' | 100' | 15' |
| 30 | 20' | 50' | 20' | 50' | 20' | 50' | 20' | 50' | 200' | 200' | 200' | 100' | 20' |
| 35 | 20' | 50' | 20' | 50' | 20' | 50' | 20' | 50' | 200' | 200' | 200' | 100' | 25' |
| 40 | 20' | 50' | 20' | 50' | 20' | 50' | 20' | 50' | 200' | 200' | 200' | 100' | 30' |
| 45 | 20' | 50' | 20' | 50' | 20' | 50' | 20' | 50' | 300' | 350' | 350' | 175' | 36' |
| 50 | 20' | 50' | 20' | 50' | 20' | 50' | 20' | 50' | 500' | 500' | 500' | 250' | 42' |
| 55 | 20' | 50' | 20' | 50' | 20' | 50' | 20' | 100' | 2640' | 1500' | 1000' | 500' | 49' |
| 60 | 20' | 50' | 20' | 50' | 20' | 50' | 20' | 100' | 2640' | 1500' | 1000' | 500' | 57' |
| 65 | 20' | 50' | 20' | 50' | 20' | 50' | 20' | 100' | 2640' | 1500' | 1000' | 500' | 64' |
| 70 | 20' | 50' | 20' | 50' | 20' | 50' | 20' | 100' | 2640' | 1500' | 1000' | 500' | 73' |

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.



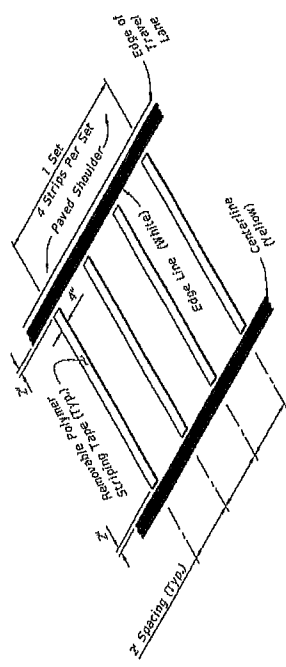
* May Be omitted if ROAD WORK AHEAD sign is installed upstream within the project limits.

WITH TEMPORARY RAISED RUMBLE STRIPS
(When Required See GENERAL NOTE #2)



MOLDED ENGINEERED POLYMER SET

=====
RUMBLE STRIP SET
OPTION - 2








REMOVABLE POLYMER STRIPING TAPE

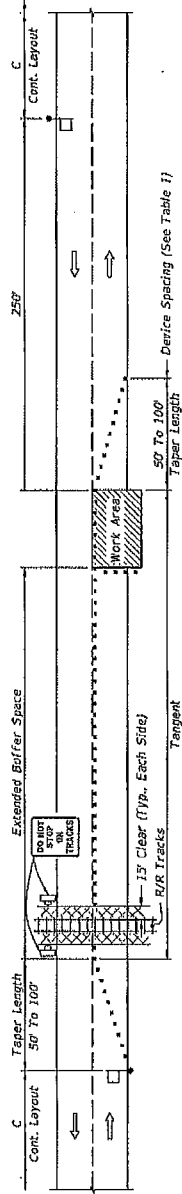
=====
RUMBLE STRIP SET
OPTION - 1

TEMPORARY RAISED RUMBLE STRIPS

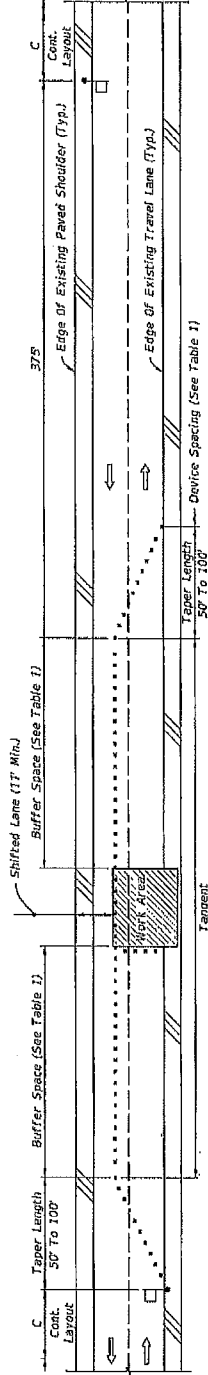
| | | |
|--|--------------------------------|-----------------------|
| DESCRIPTION: TWO-LANE, TWO-WAY, WORK WITHIN THE TRAVEL WAY | INDEX NO. 603 | SHEET NO. 2 of 3 |
| | FY 2017-18 DESIGN STANDARDS | REVISION: II/01/17 |

SYMBOLS:

-  Work Area
-  Channelizing Device (See Index No. 600)
-  Work Zone Sign
-  Flagger
-  Lane Identification + Direction of Traffic



TEMPORARY RAILROAD CROSSING BUFFER SPACE EXTENSION

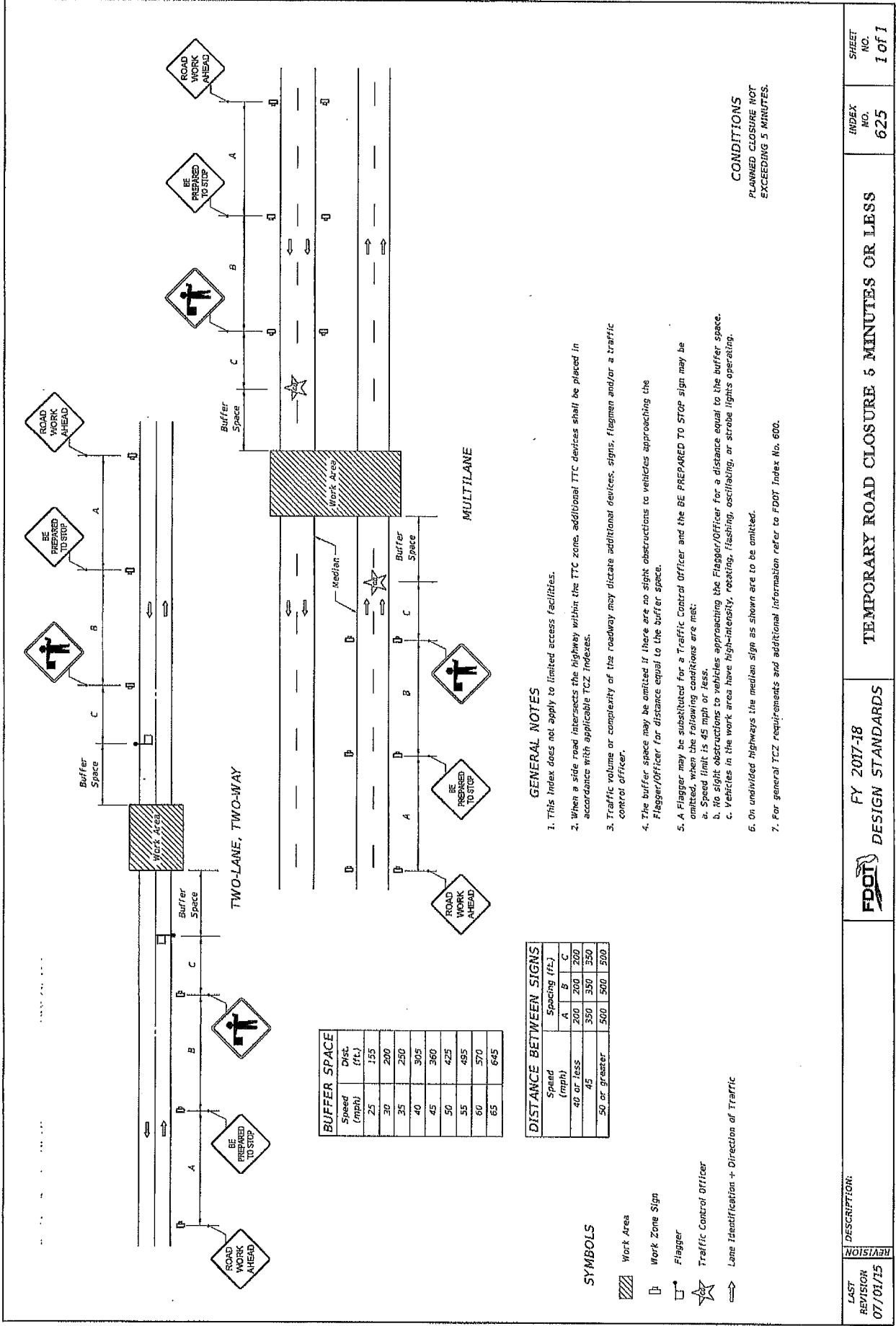


TEMPORARY LANE SHIFT TO SHOULDER WHEN WORK AREA ENCROACHES ON THE CENTERLINE

SPECIAL CONDITIONS

Cross Reference:
1. See General Note #1, Sheet 1 for more information.

| | | | | | |
|---------------------------|--------------------------|--------------------------------|--|---------------------------|---------------------|
| LAST REVISION 01/01/16 | DESCRIPTION: REVISION | FY 2017-18 DESIGN STANDARDS | TWO-LANE, TWO-WAY, WORK WITHIN THE TRAVEL WAY | INDEX NO. 603 | SHEET NO. 3 of 3 |
| | | | | SPECIAL CONDITIONS | |



| BUFFER SPACE | |
|--------------|-------------|
| Speed (mph) | Dist. (ft.) |
| 25 | 155 |
| 30 | 200 |
| 35 | 250 |
| 40 | 305 |
| 45 | 360 |
| 50 | 425 |
| 55 | 495 |
| 60 | 570 |
| 65 | 645 |

| DISTANCE BETWEEN SIGNS | | |
|------------------------|---------------|-----|
| Speed (mph) | Spacing (ft.) | |
| | A | B |
| 40 or less | 200 | 200 |
| 45 | 350 | 350 |
| 50 or greater | 500 | 500 |

SYMBOLS

- Work Area
- Work Zone Sign
- Flagger
- Traffic Control Officer
- Lane Identification + Direction of Traffic

GENERAL NOTES

1. This Index does not apply to limited access facilities.
2. When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with applicable TCZ indexes.
3. Traffic volume or complexity of the roadway may dictate additional devices, signs, flagmen and/or a traffic control officer.
4. The buffer space may be omitted if there are no sight obstructions to vehicles approaching the Flagger/Officer for distance equal to the buffer space.
5. A Flagger may be substituted for a Traffic Control Officer and the BE PREPARED TO STOP sign may be omitted, when the following conditions are met:
 - a. Speed limit is 45 mph or less.
 - b. No sight obstructions to vehicles approaching the Flagger/Officer for a distance equal to the buffer space.
 - c. Vehicles in the work area have high-intensity, rotating, flashing, or strobe lights operating.
6. On undivided highways the median sign as shown are to be omitted.
7. For general TCZ requirements and additional information refer to FDOT Index No. 600.

CONDITIONS
 PLANNED CLOSURE NOT EXCEEDING 5 MINUTES.

LAST REVISION 07/01/15

DESCRIPTION:

FDOT
 DESIGN STANDARDS

TEMPORARY ROAD CLOSURE 5 MINUTES OR LESS

INDEX NO. 625

SHEET NO. 1 of 1