

2017 L 69 1-14

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
PERMIT FOR LANDSCAPING ON STATE ROAD RIGHT OF WAY
(TURNPIKE AND NON-LIMITED ACCESS ROADWAY ONLY)

650-050-09
PRODUCTION SUPPORT
01/06
Page 1 of 2

JUL 31 2017

THIS SECTION TO BE COMPLETED BY PERMITTEE

DEPT. OF TRANSPORTATION
MIAMI, FLORIDA

Date 7/27/2017

Permittee: Name City of Miami Beach Telephone No. 305-673-7080
Address 1700 Convention Center Drive
City Miami Beach State FL Zip Code 33139

1. Location of proposed portion of right of way to be landscaped:

State Road No. A1A County Miami-Dade Street Name Collins Avenue
Address 709 Alton Road
Section 87037 Sub-Section 000 Milepost 0.173

2. Is proposed site to be landscaped within corporate limits of municipality?

Yes No

If yes, name the municipality City of Miami Beach

3. Permittee declares that prior to filing this application for permit, he/she has ascertained the location of all existing utilities, both aerial and underground, and the accurate locations are shown on the landscape plans.

A letter of notification was mailed on 4/5/2017 to the following utilities/municipalities:
AT&T, Atlantic Broadband, City of Miami Beach PWD, Crown Castle NG, Miami Dade County PWD, Florida Gas, FP&L, Hotwire Communications, Sprint/Nextel, TECP PGS

4. Landscaped areas will not be permitted on state road limited access facilities except on Florida's Turnpike as allowed in Rule 14-40.003(3)(f).

5. It is expressly stipulated that this permit is a license for permissive use only and that the construction within and/or upon public property pursuant to this permit shall not operate to create or vest any property right in said holder. This permit does not relieve the permittee of local or other jurisdictional requirements.

6. The project shall meet the requirements of Rule 14-40.003, Florida Administrative Code. The Permittee shall construct and maintain according to the attached landscape plans, maintenance plans and maintenance of traffic plans.

7. The Permittee shall be responsible for all maintenance of the landscaped area, as described in this permit, for the duration of time the landscaped area exists on Department right of way. The maintenance shall be performed in accordance with Department procedures under the direction of the Area Maintenance Engineer or designee.

8. Whenever it is determined by the Department that it is necessary for the construction, repair, improvement, maintenance, safe and/or efficient operation, alteration or relocation of any portion or all of said highway and/or public transportation facility; any and all landscaping installed by the Permittee shall be immediately removed from said highway or reset or relocated thereon as required by the Department, all at the expense of the Permittee.

9. All material and equipment shall be subject to inspection by the Maintenance Engineer or his/her authorized representative.

10. During construction of landscape project, all safety regulations of the Department shall be observed and the holder must take measures, including placing and displaying of safety devices, that may be necessary in order to safely conduct the public through the project area in accordance with the Department's current edition of Roadway and Traffic Design Standards, Index Series 600, the Manual of Uniform Traffic Control Devices, and the Standard Specifications for Road and Bridge Construction, section 5-8.4.

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PERMITTEE CONT'D

- 11. The Permittee shall notify the appropriate Area Maintenance Engineer or designee 48 hours prior to starting work and again immediately upon completion of work.
- 12. In case of non-compliance with the Department's requirements in effect as of the approved date of this permit, this permit is void and the work will have to be brought into compliance or removed from the right of way at no cost to the Department. Any false information supplied on this form renders this permit null and void.
- 13. The Permittee, shall indemnify, defend, and hold harmless the Department and all of its officers, agents, and employees from any claim, loss, damage, cost, charge, or expense arising out of any acts, actions, neglect, or omission by the Permittee, its agents, employees, or subcontractors during the performance of the landscape project as approved by this permit, whether direct or indirect, and whether to any person or property to which the Department or said parties may be subject, except that neither the Permittee nor any of its subcontractors will be liable under this Article for damages arising out of the injury or damage to persons or property directly caused or resulting from the negligence of the Department or any of its officers, agents or employees.
- 14. I, the undersigned, do hereby agree to comply with all requirements established by this permit and Rule Chapter 14-40, Florida Administrative Code.

Submitted By: _____


(SIGNATURE OF PERMITTEE)

Carey Osbourne, Right-of-Way Manager
(NAME TYPED OR PRINTED)

THIS SECTION TO BE COMPLETED BY DEPARTMENT PERSONNEL

The above landscape project is: Approved Not Approved

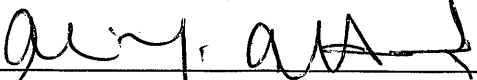
If not approved, the reason is: _____

The Permittee shall commence work within 60 days of permit approval date and shall be completed by 9/6/18.

Special conditions/instructions by the Department:

SEE ATTACHMENT(S)

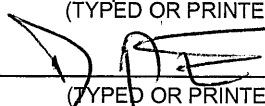
A copy of Rule 14-40, F.A.C., is attached hereto and made a part of this permit.


(SIGNATURE OF AUTHORIZED DEPARTMENT OFFICIAL)

M. Al-Said, P.E.
(TYPED OR PRINTED NAME)

Date Issued: 9/6/17

Permit No. 2017 L 691714


(TYPED OR PRINTED TITLE)

SPECIAL PROVISIONS FOR LANDSCAPE PERMIT # 2017 L 691 14

Section: 87037, State Road 907 / ALTON RD

LANDSCAPING PERMIT FOR CITY OF MIAMI BEACH LOCATED AT 709 ALTON RD.

1. PLEASE COORDINATE A PRE-CONSTRUCTION MEETING WITH MR. ALBERT ESTEVEZ at (305) 640-7144 / (954) 699-8873, Email: Albert.Estevez@dot.state.fl.us AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO COMMENCEMENT OF WORK.
2. Submit a detailed lane closure form, noting work and time phases thru the Lane Closure Information System (LCIS) at <http://www.fdotlcis.com/closures.aspx> . The lane closure request shall be approved by the Department at least 2 weeks prior to beginning work within the FDOT Right of Way. **There shall be no lane closures (Unless approved by the District Maintenance Engineer /or the District Maintenance of Traffic Specialist) from Thanksgiving Day to New Year's Day, due to Moratorium.**
3. WORKING DAYS AND HOURS WITHIN THE F.D.O.T. RIGHT-OF-WAY SHALL BE BETWEEN 9:30 A.M. AND 3:00 P.M., DAYTIME, OFF-PEAK HOURS (WEEK-END WORK OPTIONAL), OR AS DIRECTED BY THE DEPARTMENT REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK.
4. APPLICANT SHALL TAKE RESPONSIBILITY FOR THE PROPER MAINTENANCE, SURVIVAL AND CONDITION OF ALL LANDSCAPING AT NO ADDITIONAL COST TO THE DEPARTMENT.
5. TREES BEING PLANTED IN DEPARTMENT'S RIGHT-OF-WAY (FDOT R/W) MUST ADHERE TO STANDARD INDEX 544, 546, AND 700. ALL TREES AND LANDSCAPING BEING ACCIDENTLY DESTROYED ON FDOT R/W BY THE PERMITTEE SHALL BE REPLACED TO MATCHING THE SIZE AND SPECIES OF THOSE BEING DESTROYED.
6. WHEN THE PERMITTEE'S OPERATIONS ENCOUNTER OR EXPOSE ANY ABNORMAL CONDITION WHICH MAY INDICATE THE PRESENCE OF A HAZARDOUS WASTE, TOXIC WASTE, OR CONTAMINANTS, SUCH OPERATIONS SHALL CEASE IMMEDIATELY IN THE VICINITY OF THE ABNORMAL CONDITION AND THE DEPARTMENT'S INSPECTOR AND Ms. MARIA SALGADO OF THE ENVIRONMENTAL MANAGEMENT OFFICE AT 1000 NW 111 AVE MIAMI FLORIDA 33172 (TELEPHONE NUMBER (305) 470-5308) SHALL BE INFORMED OF THE FIELD ASSESSMENT RESULTS. EVERY EFFORT SHALL BE MADE BY THE PERMITTEE TO MINIMIZE THE SPREAD OF ANY CONTAMINATION INTO UNCONTAMINATED AREAS. NOTIFICATION OF PERSONNEL AND SELECTION OF COURSE ACTION SHALL BE IN ACCORDANCE WITH PROCEDURE 650-030-010-B, RESOLUTION OF RIGHT-OF-WAY CONTAMINATION ISSUES. UNDER NO CIRCUMSTANCES WILL THE PERMITTEE RESUME OPERATIONS IN THE AFFECTED AREA UNTIL SO DIRECTED BY THE DEPARTMENT'S INSPECTOR.
7. A COPY OF THIS PERMIT AND PLANS WILL BE ON THE JOB SITE AT ALL TIMES DURING THE CONSTRUCTION OF THIS FACILITY
8. PERMITTEE IS CAUTIONED THAT UTILITIES MAY BE LOCATED WITHIN THE CONSTRUCTION AREA.
9. VALIDITY OF THIS PERMIT IS CONTINGENT UPON PERMITTEE OBTAINING NECESSARY PERMITS FROM ALL OTHER AGENCIES INVOLVED.
10. DAMAGED SIDEWALKS AND/OR CURB AND GUTTER SHALL BE RESTORED WITH FULL 4" THICK FLAGS WITH EXPANSION MATERIAL AND TACTILE FOR HANDICAP RAMPS ACCORDING TO INDEXES 300, 304 AND 310 AND SPEC. 522.
11. **THE PAVEMENT IS NEW.** IN THE EVENT THAT THE ROADWAY PAVEMENT IS DAMAGED, IT SHALL BE RESTORED **50-FT. AT EITHER SIDE AND AT FULL LANE WIDTH TO MATCH OR EXCEED EXISTENT CONDITIONS** AND IN ACCORDANCE WITH THE DEPARTMENT'S DESIGN STANDARDS AND SPECIFICATIONS. PAVEMENT RESTORATION SCOPE AND METHOD WILL BE AS DIRECTED IN THE FIELD BY THE DEPARTMENT REPRESENTATIVE. DAMAGED PAVEMENT WILL BE RESTORED AT THE EXPENSE OF THE PERMITTEE.
12. IN THE EVENT THAT SOD IS DAMAGED DURING CONSTRUCTION, IT MUST BE REPLACED AND MAINTAINED UNTIL THE SOD IS ESTABLISHED.
13. ALL PORTIONS OF THE STATE RIGHT-OF-WAY DISTURBED IN THE CONSTRUCTION OF THE PROPOSED WORK SHALL BE RESTORED TO **F.D.O.T. SPECIFICATIONS.**
14. FINAL RESTORATION SHALL BE COORDINATED WITH THE DEPARTMENT REPRESENTATIVE. ALL PORTIONS OF THE STATE RIGHT-OF-WAY DISTURBED IN THE CONSTRUCTION OF THE PROPOSED WORK SHALL BE RESTORED TO F.D.O.T. SPECIFICATIONS WITHIN THIRTY (30) DAYS UPON COMPLETION OF THE PERMITTED INSTALLATION.
15. IF F.D.O.T. ROADWAY IMPROVEMENTS HAVE COMMENCED OR RECENTLY BEEN COMPLETED PRIOR TO THE INSTALLATION OF THE WORK APPROVED UNDER THIS PERMIT, THIS PERMIT SHALL BECOME VOID.
16. BEGINNING ANY WORK WITHIN THE F.D.O.T. RIGHT-OF-WAY ASSOCIATED WITH THIS PERMIT CONSTITUTES ACCEPTANCE OF THESE CONDITIONS.

Florida Administrative Code Chapter 14-40

LANDSCAPING PERMIT GENERAL PROVISIONS - PERMIT # 2017 L 691 14

14-40.003 Highway Landscape Projects.

(1) Department Authorization Required. No landscaping may be altered, removed, or installed on the Department's right of way by any person without written authorization by the Department pursuant to this Rule Chapter. All requirements for restoring the Department's right of way and highway landscape projects, where such restoration is made necessary by the construction or maintenance of utilities, are specified in the *Utility Accommodation Manual*, incorporated by reference under Rule 14-46.001. Requests to remove, cut, or trim, vegetation that screens outdoor advertising signs for which outdoor advertising sign permits have been issued pursuant to Chapter 479, Florida Statutes, must be made in accordance with Part III of this Rule Chapter.

(2) Definitions.

(a) "Abutting Private Property Owner" means any person or entity having lawful control of land which adjoins, or is contiguous to, Department non limited access right of way.

(b) "Department" means the Florida Department of Transportation.

(c) "Highway Landscape Project" means any planned or actual landscape or landscaping on Department right of way, including construction or installation, planning, beautification, and maintenance thereof, by a local government entity, non governmental entity, or abutting private property owner.

(d) "Landscape" or "Landscaping" means any vegetation, mulches, irrigation systems, and any site amenities, such as, street furniture, decorative paving, fences, and lighting (excluding public utility street and area lighting).

(e) "Local Governmental Entity" means as defined in Section 11.45(1)(e), Florida Statutes.

(f) "Non Governmental Entity" means any person or organization, other than a governmental entity, who seeks approval of a highway landscape project.

(g) "Screen" or "Screening" means the planting or installation of any vegetation or other landscape material which will reach a height greater than the height of the bottom of the lowest sign face, as viewed from a height of 3.5 feet above the roadway surface at the edge of the travel lane closest to the outdoor advertising sign.

(3) Approval Criteria.

(a) Approval is based on review of a complete set of landscape plans. The District Landscape Manager can be consulted during preparation of landscape plans. The following plan preparation guidelines must be used:

1. Project data must be included on sheet 1 of the plans, and must include a location map with beginning and end of project mile posts, index of plans included in the set, state road number, local government and contact information, and name and address of the person and firm who prepared the plans.

2. Plans must be drawn to scale, exhibiting an accurate and legible representation of existing conditions (above and below ground), and all proposed work. Plans must show all dimensions necessary to demonstrate compliance with this rule. If there is a baseline survey or centerline of construction, station points must be

Irrigation schedule, supply source, and method of application.
Special care required for any hardscape materials, lighting, signage, benches, or other site amenities.
Litter pick-up and removal schedule (prior to mowing cycle or as needed).
A work zone traffic control plan (if necessary) for installation and maintenance of the project.
An estimate of manpower and equipment required to achieve an acceptable level of maintenance.

6. As-built plans, or a summary of changes, are required for all landscape projects.

7. Plans prepared by or for Department highway landscape projects must be signed and sealed by a registered landscape architect.

(b) No planting or installation of vegetation or other landscape material for landscape projects, or issuance of permits for such planting or installation, including construction and beautification projects, is allowed on Department right of way which screens or which, when mature, will screen an outdoor advertising sign permitted under Chapter 479, Florida Statutes. This prohibition applies to outdoor advertising signs exempt from department permitting requirements that are on the state highway system and located within incorporated municipalities. This prohibition applies to all landscape, construction, and beautification projects on Department right of way regardless of the source of funds for the project, except for landscape projects approved by the Department prior to the date of the original, state sign permit for the sign. For purposes of this rule, a landscape, construction, or beautification project is approved when it is specifically identified in the Department's five year work program, is a permitted landscape project, is part of an executed agreement between the Department and a local government, or has been approved in writing by the Department for installation at a later date by a local government.

1. Screening is prohibited within a permitted vegetation management zone, as defined in Rule 14-40.030(1)(d).

2. Where there is no permitted vegetation management zone for an outdoor advertising sign, the landscape architect will notify the sign permittee that a highway landscape project is proposed within the view zone. The sign permittee will have 30 days to submit an Application for Vegetation Management that proposes a vegetation management zone (See Part III). The screening prohibition in 1. above will apply upon approval of the Permit for Vegetation Management at Outdoor Advertising Sign. If an Application for Vegetation Management has not been submitted by the sign permittee within 30 days of notification, screening will be prohibited wherever the sign face is not screened within the view zone, beginning at Terminus A and extending along the outside travel lane edge in advance of the sign until the sign face is not screened for a total of 500 feet. Contact information for any permitted sign may be obtained by contacting the State Outdoor Advertising Administrator, Florida Department of Transportation, 605 Suwannee Street, MS 22, Tallahassee, Florida 32399-0450.

3. The limits of the screening prohibition may be adjusted pursuant to a written agreement between the sign permittee and a local governmental entity.

(c) A local governmental entity may request approval to alter, remove, or install landscaping on the Department's right of way through submission of a landscape plan . After review by the Department, and the making of any necessary revisions by the local governmental entity, the Department will prepare a written agreement requiring the local governmental entity to properly construct and maintain the landscape project. The landscape plan will become Exhibit A to the agreement. If separate, the maintenance plan as described Subsection (2)(a)7. will become Exhibit B of the agreement. When the agreement is executed, and a Notice to Proceed is issued by the Department, the local governmental entity may proceed with the project.

donated landscape projects by an individual or entity may be erected on the right of way, when the donation includes installation and maintenance pursuant to an executed agreement. Such signs will remain in place for a term of five years, unless otherwise specified in the agreement. The sign must not contain commercial logos or trademarks. Signs will be placed at each end of the landscape project.

(a) Interstate Highways: The sign acknowledging donation of landscape projects on the Interstate Highway System will be provided by the Department. This sign will be similar to the Adopt-a-Highway Program sign used by the Department, except that the word "landscaping" will be substituted for the words "litter control" and the colors will be green lettering on white background. The signs shall be installed and maintained by the Department.

(b) Arterial Highways: The approved sign design for arterial highways is depicted in Figure 1. The sign panel will be 18 inches tall and 24 inches wide with white background and green lettering, using lettering shown in Figure 1 and fabricated with non-reflective materials. The sign must be mounted on 4 inch by 4 inch pressure treated posts, or break away posts that meet or exceed the requirements of the *Roadway and Traffic Design Standards* (incorporated by reference under rule 14-85.004, F.A.C.). The top of signs will be a maximum of no more than two feet above grade. Installation of signs is contingent upon an agreement with the appropriate local governmental entity. The approved sign panel(s) must be provided and replaced by the local governmental entity. Signs will be placed according to the approved landscape plan.

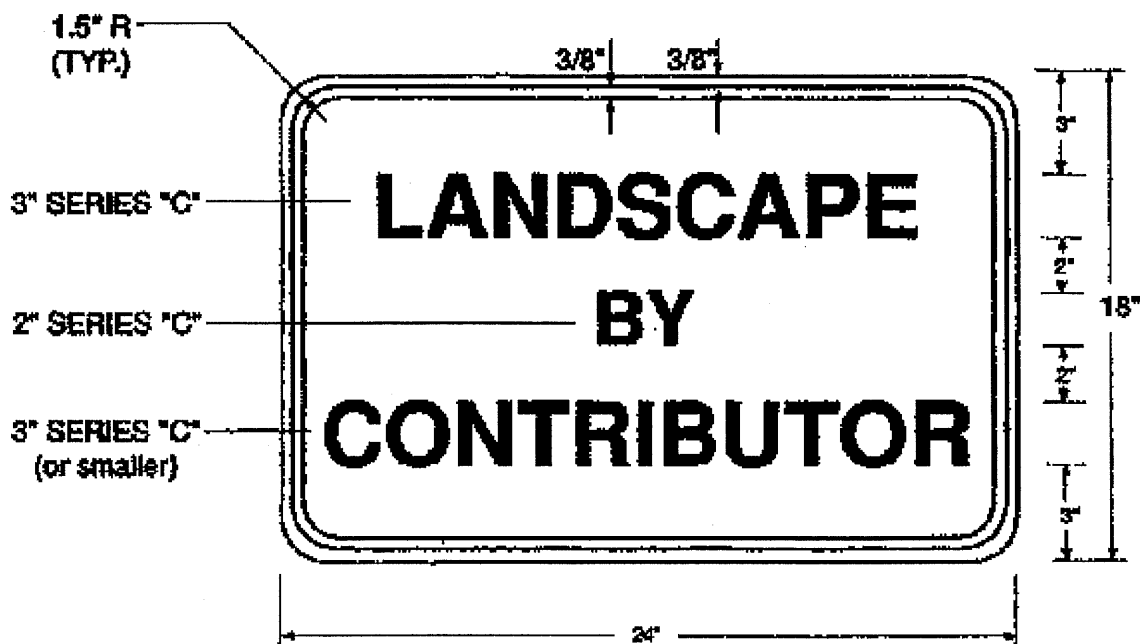


Figure 1 Arterial and Limited Access Landscape Roadway Sign

Specific Authority 334.044(2), 337.2505 FS. Law Implemented 334.044(2), 335.167, 337.2505, 337.405, 339.24, 339.2405, 479.106 FS. History - New 9-22-92, Amended 1-19-99, 4-2-02, 5-22-05, 2-8-06.

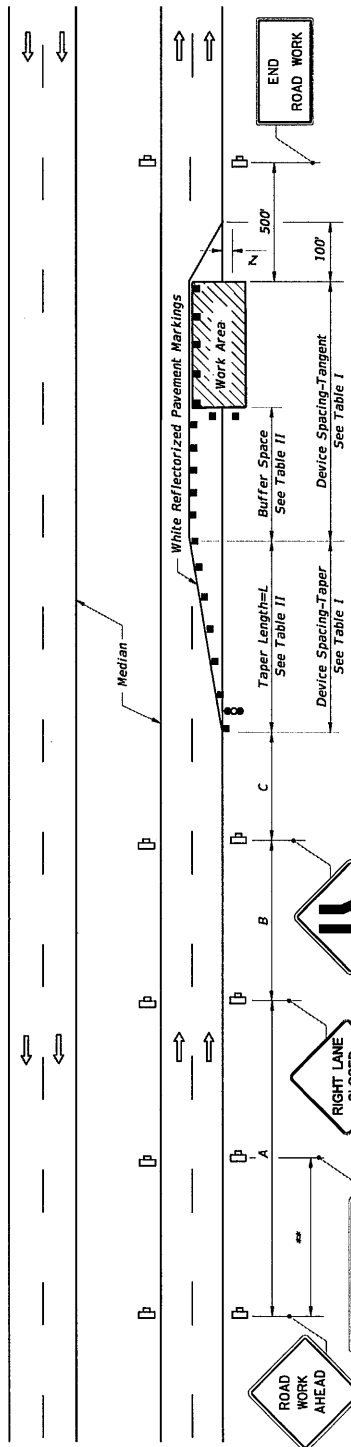
**Table II
Buffer Space and Taper Length**

Speed (mph)	Buffer Space (ft.)	L (ft.)	Notes (Merge)
25	155	125	
30	200	180	WS^2 $L = 60$
35	250	245	
40	305	320	
45	360	540	
50	425	600	
55	495	660	$L = WS$
60	570	720	
65	645	780	
70	730	840	

When Buffer Space cannot be attained due to geometric constraints, the greatest attainable length shall be used, but not less than 200 ft.

For lateral transitions other than 12, use formula for L shown in notes column. Where:

L = Length of taper in feet
W = Width of lateral transition in feet
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 Panels or Drums
25	25	50
30 to 45	25	50
50 to 70	25	50

DURATION NOTES

1. Temporary white edgeline may be omitted for work operations less than 3 consecutive calendar days.
2. For work operations up to approximately 15 minutes, signs, channelizing devices, arrow board, and buffer space may be omitted if all of the following conditions are met:
 - a. Speed limit is 45 mph or less.
 - b. No sight obstructions to vehicles approaching the work area for a distance equal to the buffer space and the taper length combined.
 - c. Volume and complexity of the roadway has been considered.
 - d. The closed lane is occupied by a class 5 or larger, medium duty truck(s) with a minimum gross weight vehicle rating (GVWR) of 10,001 lb with high-intensity, rotating, flashing, oscillating, or strobe lights mounted above the cab height and operating.
3. For work operations up to 60 minutes, arrow board and buffer space may be omitted if conditions a, b, and c in DURATION NOTE 2 are met, and vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENROACH ON THE LANE ADJACENT TO EITHER SHOULDER AND THE AREA 2' OUTSIDE THE EDGE OF TRAVEL WAY.

GENERAL NOTES

1. Work operations shall be confined to one traffic lane, leaving the adjacent lane open to traffic.
 2. On undivided highways the median signs as shown are to be omitted.
 3. When work is performed in the median lane on divided highways, the channelizing device plan is inverted and left lane closed and lane ends signs substituted for the right lane closed and lane end signs.
- The same applies to undivided highways with the following exceptions:
- a. Work shall be confined within one median lane.
 - b. Additional barricades, cones, or drums shall be placed along the centerline abutting the work area and across the trailing end of the work area.
- When work on undivided highways occurs across the centerline so as to encroach on both median lanes, the inverted plan is applied to the approach of both roadways.
4. Signs and traffic control devices are to be modified in accordance with INTERMITTENT WORK STOPPAGE details (sheet 2 of 2) when no work is being performed and the highway is open to traffic.
 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 paved shoulders having a width of 8 ft. or more are closed, channelizing devices shall be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the travel way. See Index No. 612 for shoulder taper formulas.
 7. When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ indexes.
 8. This TCZ plan does not apply when work is being performed in the middle lane(s) of a six or more lane highway. See Index No. 614.
 9. For general TCZ requirements and additional information, refer to Index No. 600.

DISTANCE BETWEEN SIGNS

Speed	Spacing (ft.)		
	A	B	C
40 mph or less	200	200	200
45 mph	350	350	350
50 mph	500	500	500
**55 mph or greater	2640	1640	1000

* The ROAD WORK 1 MILE sign may be used as an alternate to the ROAD WORK AHEAD sign and the RIGHT LANE CLOSED 1/2 MILE sign may be used as an alternate to the RIGHT LANE CLOSED AHEAD sign.

** 500' beyond the ROAD WORK AHEAD sign or midway between signs whichever is less.

SYMBOLS

- Work Area
- Channelizing Device (See Index No. 600)
- Work Zone Sign
- Advance Warning Arrow Board

DESCRIPTION:

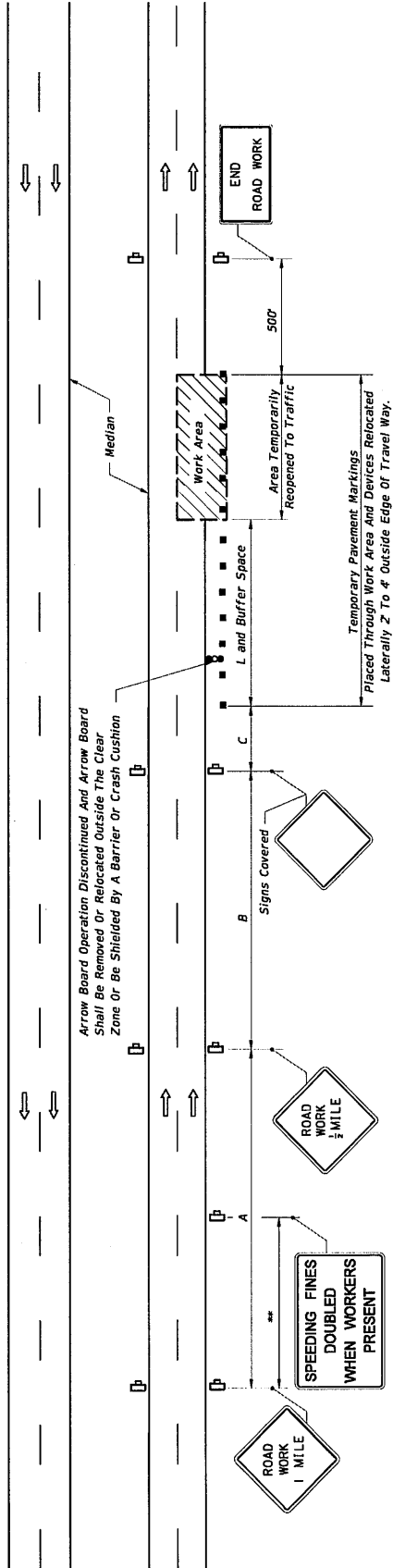
LAST REVISION 01/01/16

FDOT
FY 2017-18
DESIGN STANDARDS

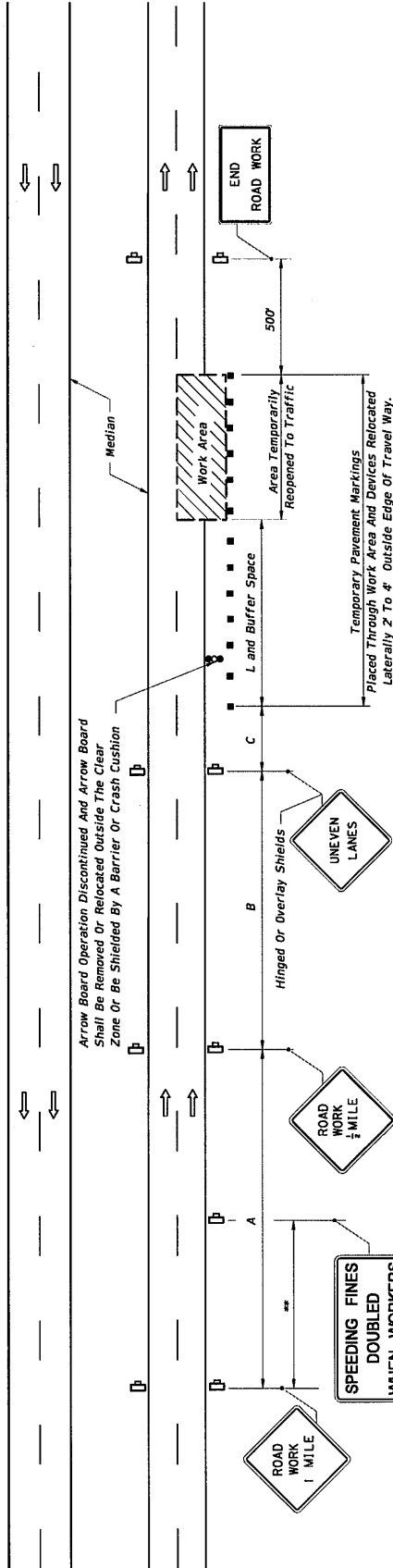
MULTILANE, WORK WITHIN TRAVEL WAY
MEDIAN OR OUTSIDE LANE

INDEX NO. 613

SHEET NO. 1 of 2



EVEN PAVEMENT



UNEVEN PAVEMENT

INTERMITTENT WORK STOPPAGE - LANE REOPENED TO TRAFFIC

LAST REVISION 07/01/15



DESIGN STANDARDS
FY 2017-18

MULTILANE, WORK WITHIN TRAVEL WAY
MEDIAN OR OUTSIDE LANE

INDEX NO. 613







SHEET NO. 2 of 2

GENERAL NOTES

1. Work operations shall be confined to either one lane, or lane combinations as follows:
 - a. Outside travel lane;
 - b. Outside auxiliary lane;
 - c. Outside travel lane and adjoining auxiliary lane;
 - d. Inside travel lane Δ;
 - e. Inside auxiliary lane Δ;
 - f. Inside travel lane and adjoining auxiliary lane Δ

Δ See Sheet 3
- If the work area is confined to an auxiliary lane the work area shall be barricaded and the RIGHT (LEFT) LANE CLOSED AHEAD signs replaced by ROAD WORK AHEAD signs, and the merge symbol signs eliminated.
2. When vehicles in a parking zone block the line of sight to TCZ signs, the signs shall be post mounted and located in accordance with Index No. 17302.
3. If the work space extends across a crosswalk, the crosswalk should be closed using the information in Index No. 660.
4. Signs are required on the median side for divided highways.
5. 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.
6. For general TCZ requirements and additional information, refer to Index No. 600.

SYMBOLS


-  Work Area
-  Work Zone Sign
-  Advance Warning Arrow Board
-  Type III Barricade
-  Channelizing Device (See Index No. 600)
-  Lane Identification + Direction of Traffic

DURATION NOTES

1. For work operations up to approximately 15 minutes, signs, channelizing devices, and arrow board may be omitted if all of the following conditions are met:
 - a. Speed limit is 45 mph or less.
 - b. No sight obstructions to vehicles approaching the work area for a distance equal to twice the taper length.
 - c. Volume and complexity of the roadway has been considered.
 - d. The closed lane is occupied by a class 5 or larger, medium duty trucks) with a minimum gross weight vehicle rating (GVWR) of 16,001 lb with high-intensity, rotating, flashing, oscillating, or strobe lights mounted above the cab height and operating.
2. For work operations up to 60 minutes, the arrow board may be omitted if conditions a, b, and c in DURATION NOTE 1 are met, and vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.

DESCRIPTION:

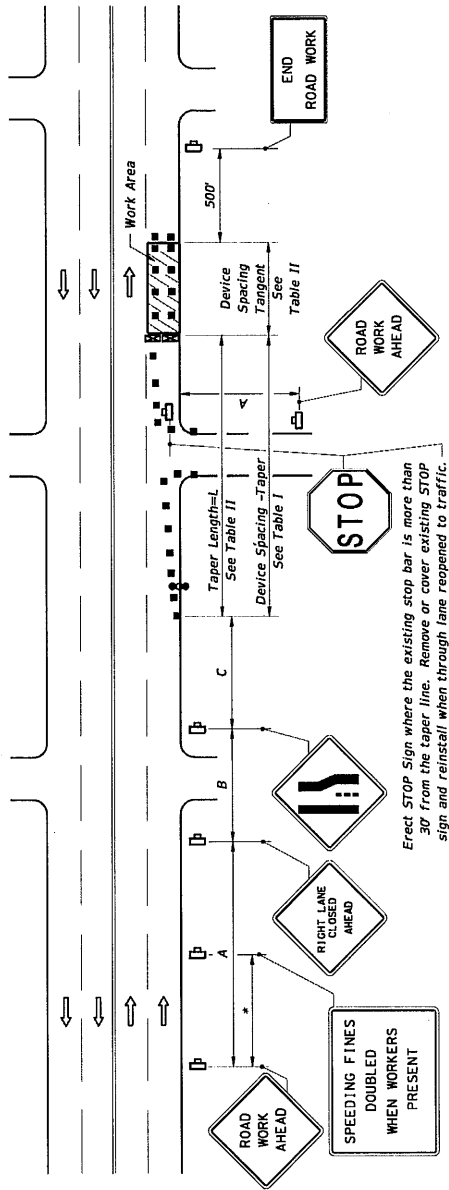
LAST REVISION
07/01/15

 FY 2017-18
DESIGN STANDARDS

MULTILANE, WORK NEAR INTERSECTION
MEDIAN OR OUTSIDE LANE

INDEX NO.
616

SHEET NO.
1 of 3



RIGHT LANE CLOSED ON FAR SIDE OF MINOR SIDE STREET

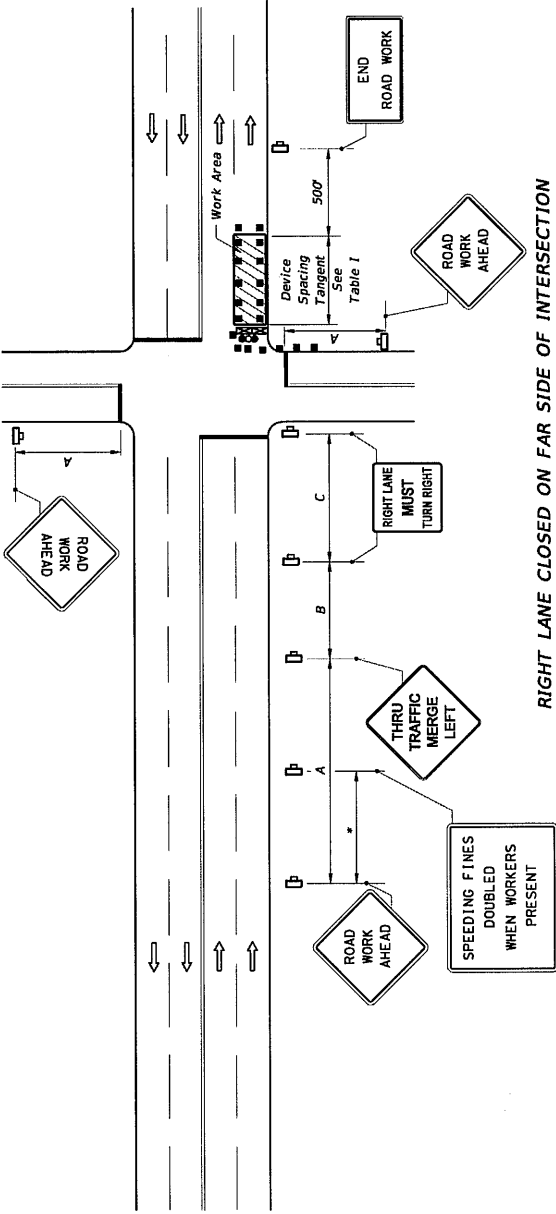
DISTANCE BETWEEN SIGNS

Speed	Spacing (ft.)		
	A	B	C
40 mph or less	200	200	200
45 mph	350	350	350

* 500' beyond the ROAD WORK AHEAD sign or midway between signs whichever is less.

**Table I
Device Spacing**

Speed (mph)	Max. Distance between Devices (ft.)		
	Type I or Type II Cones or Barricades or Vertical Tubular Markers	Taper	Tangent
25	25	50	50
30 to 45	25	50	50



RIGHT LANE CLOSED ON FAR SIDE OF INTERSECTION WITH SIGNIFICANT RIGHT TURNING MOVEMENTS

- The normal procedure is to close on the near side of the intersection any lane that is not carried through the intersection. However, when this results in the closure of a right lane having significant right turning movements, then the right lane may be restricted to right turns only as shown in this detail.
- For intersection approaches reduced to a single lane, left turning movements may be prohibited to maintain capacity for through vehicular traffic.

**Table II
Taper Length - Merge (12' Lateral Transition)**

Speed (mph)	L (ft)	Notes
25	125	WS ² L = 60
30	180	
35	245	L=WS
40	320	
45	540	L=WS

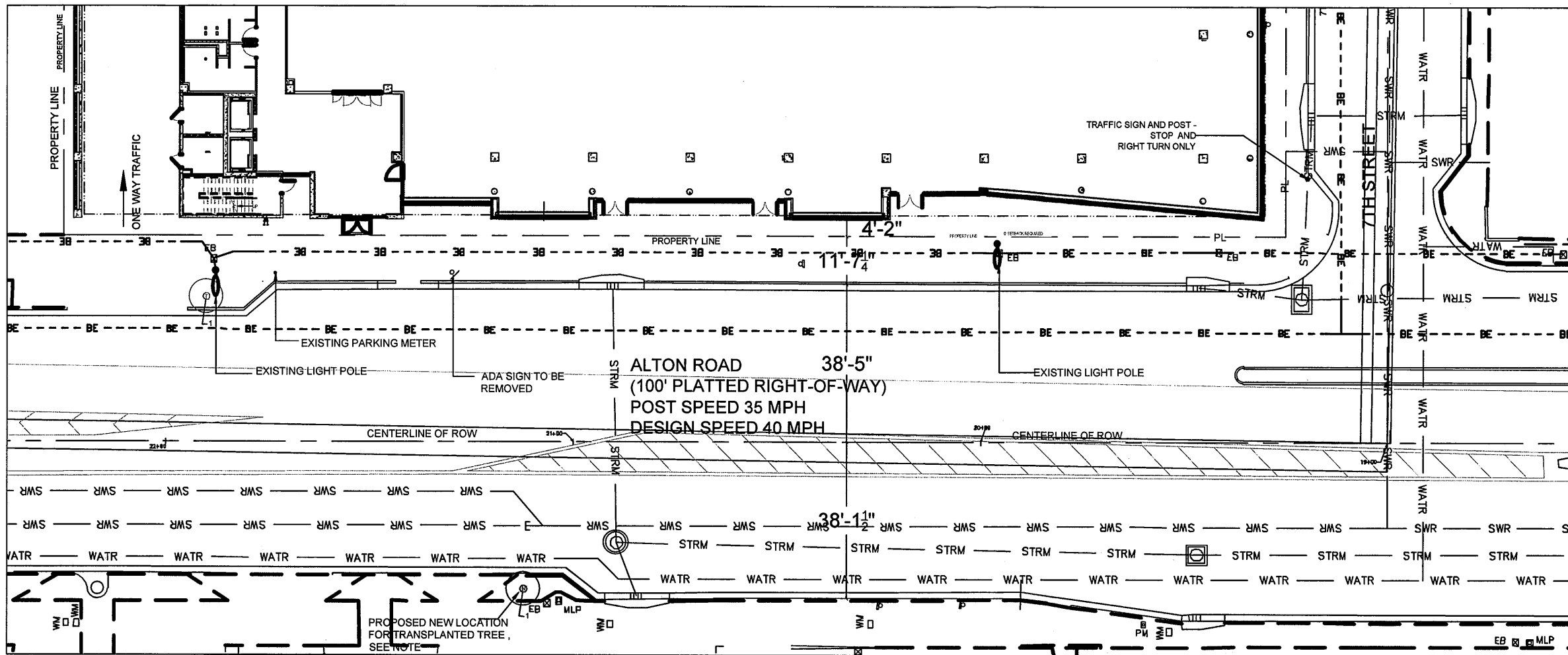
For lateral transitions other than 12', use Formula for L shown in the notes column. Where:
L = Length of taper in feet
W = Width of lateral transition in feet
S = Posted speed limit (mph)

LAST REVISION 07/01/15

FDOT DESIGN STANDARDS

MULTILANE, WORK NEAR INTERSECTION MEDIAN OR OUTSIDE LANE

INDEX NO. 616 SHEET NO. 2 of 3



1 ALTON ROAD RIGHT OF WAY
SCALE: 1"=30'-0"

SAVINO & MILLER DESIGN STUDIO 709 Alton Road, Miami Beach											
#	COMMON NAME	BOTANICAL NAME	CONDITION	COMMENTS	PRESERVE	TRANSPLANT	REMOVE	TRUNK DBH (IN)	TREE HT. (FT.)	CANOPY DIAM. (FT.)	ROOTBALL DIAM.
1	Verawood	Bulnesia arborea	Good			1		3	15	8	

Note: Transplanted tree to be relocated to FDOT Right-of-way, final location for relocated tree to be determined by FDOT.

WORK WITHIN THE
F.D.O.T.
RIGHT OF WAY SHALL
CONFORM TO CURRENT
F.D.O.T. STANDARDS
AND SPECIFICATIONS

2017 L 691 147

**PERKINS
+ WILL**
806 Douglas Rd.
Suite 300
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709 Alton Road

Crescent Heights

709 Alton Road Miami Beach, Florida, 33139

CH
MILLER LEGG
5747 N Andrews Way
Ft. Lauderdale, FL 33309
1954.426.7000
1954.426.8664

LANDSCAPE
SAVINO MILLER DESIGN STUDIO
12345 NE 8th Avenue Suite A
North Miami, FL 33161
1305.855.9922
1305.855.8963

STRUCTURE
DDA ENGINEERS, P.A.
4830 SW 74th Street
Miami, FL 33155
1305.666.0711
1305.966.5259

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2600 Douglas Road, Suite 301
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1305.529.1515
1305.529.1112

PROPOSED CONSULTANTS
DESMAN ASSOCIATES
110 E. Broward Boulevard, Suite 1710
Fort Lauderdale, FL 33301
1954.315.3984
1954.315.3989

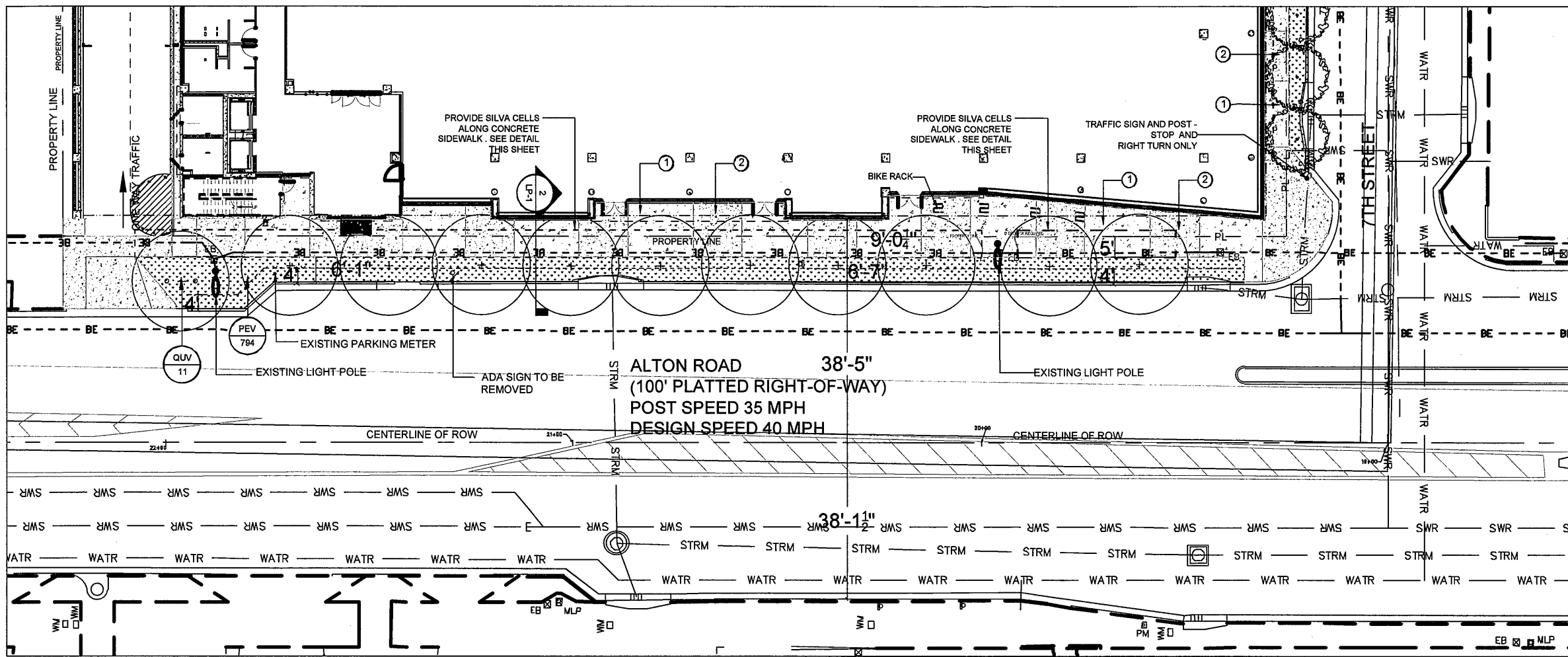


John #106
8/21/2017

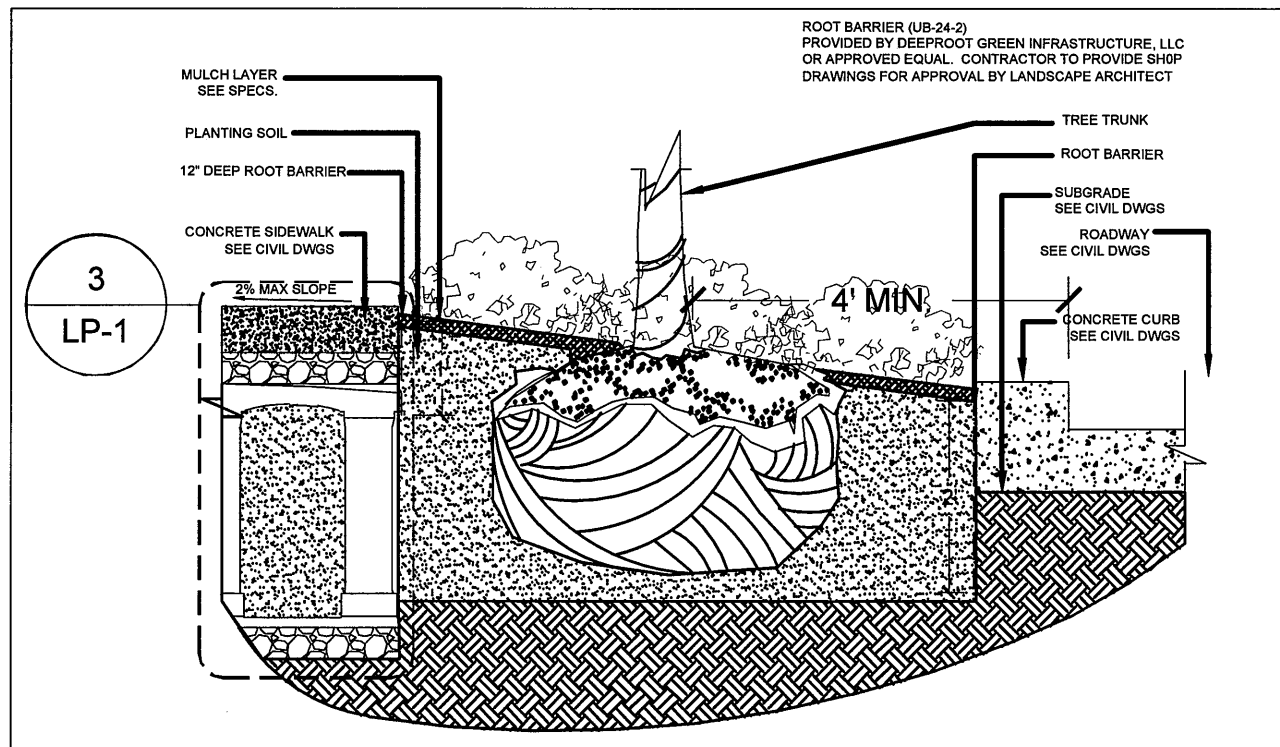
Sheet Information	
Date	08-21-2017
Job Number	810408.000
Drawn	BW Author
Checked	BM Checker
Approved	BM Approver

Title
**TREE MANAGEMENT
PLAN**

Sheet
LT-1



1 LANDSCAPE PLAN ALTON ROAD ROW
SCALE: 1"=30'-0"



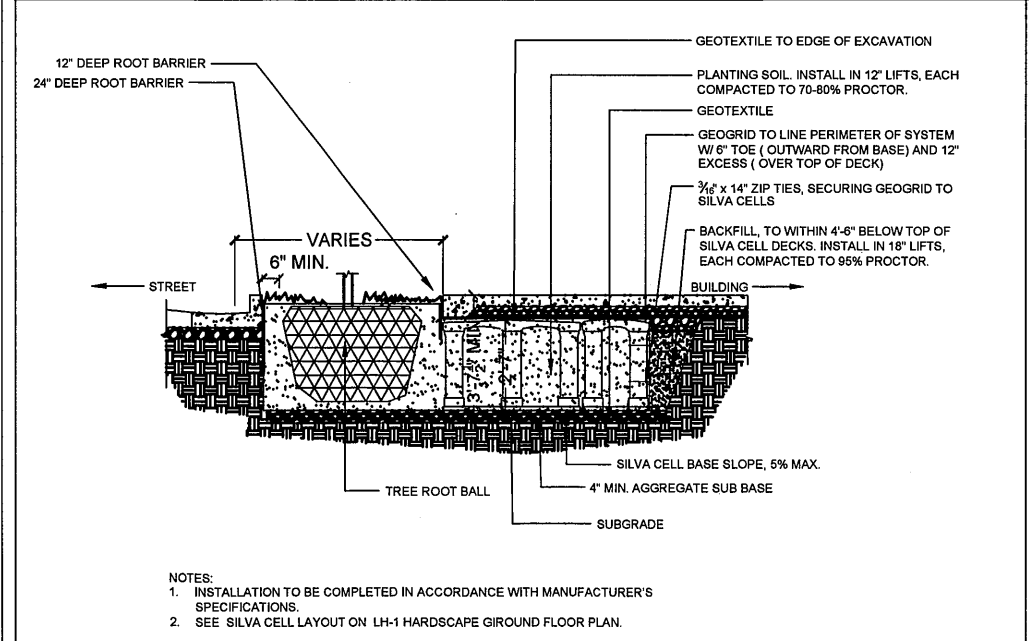
2 SECTION ALTON ROAD ROW
SCALE: 1/2"=1'-0"

709 ALTON ROAD ROW PLANTING SCHEDULE

KEY	QTY.	BOTANICAL / COMMON NAME	SIZE
TREES AND PALMS			
QUV	11	Quercus virginiana / Live Oak	22'-24" OA HT, 16" - 18" SPR. FL. Fancy 8"-10" Caliper
GROUNDCOVERS			
PEV	794	Pennisetum vilosum / Feathered White Fountain Grass	12'-18" HT, Full 1 gal, 18" OC

709 ALTON ROAD HARDSCAPE SCHEDULE

KEY	QTY	DESCRIPTION	COLOR / PATTERN	NOTES
1	2,390	CONCRETE PAVING	Miami Beach Red #4 Color, Light Sandblast Finish	Sidewalks on Alton Road and 7th Street, See Civil Drawings
2	2340	CONCRETE PAVING	Miami Beach Red #4 Color, Rock Salt Finish	Sidewalks on Alton Road and 7th Street, See Civil Drawings



3 SILVA CELL DETAIL TYPICAL
SCALE: 3/16"=1'-0"

Handwritten signature and date: 8/21/2017

Sheet Information

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Title

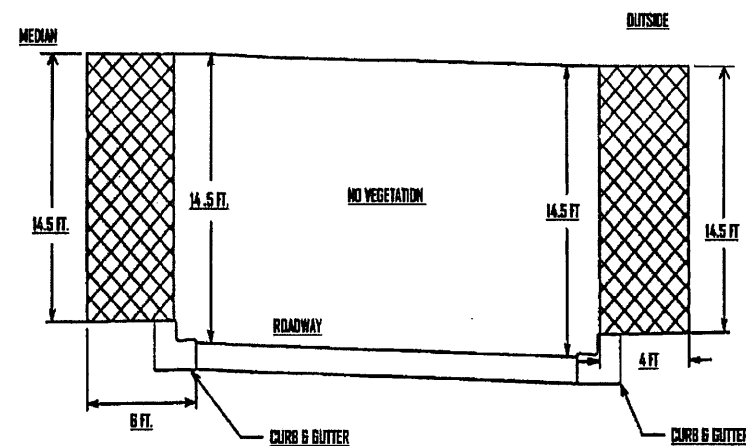
LANDSCAPE PLAN

Sheet LP-1

HARDSCAPE GENERAL NOTES

1. The Owner's Engineer will be responsible for insuring the structural integrity and compliance with all local codes, of all elements designed on this sheet. The Landscape Architect is responsible for the layout, aesthetic detailing of the site, and the finish specifications of elements designed on this sheet.
2. See Civil Drawings for all exterior finished grades at curbing, streets, driveways, utilities, and drainage structures.
3. Contractor shall verify all dimensions and elevations on site prior to beginning construction, and any discrepancies shall be brought to the immediate attention of the Landscape Architect.
4. Contractor shall stake the layout plan (or retain a registered surveyor, if required) in the field and have such staking approved by the Landscape Architect prior to proceeding with construction. The building contractor shall report all layout discrepancies immediately to the Landscape Architect for decision.
5. Contractor shall prepare a sample panel of paving fields & borders for approval by the landscape architect.
6. Landscape Plans prepared in accordance with FDOT DESIGN STANDARDS dated 2017-18.

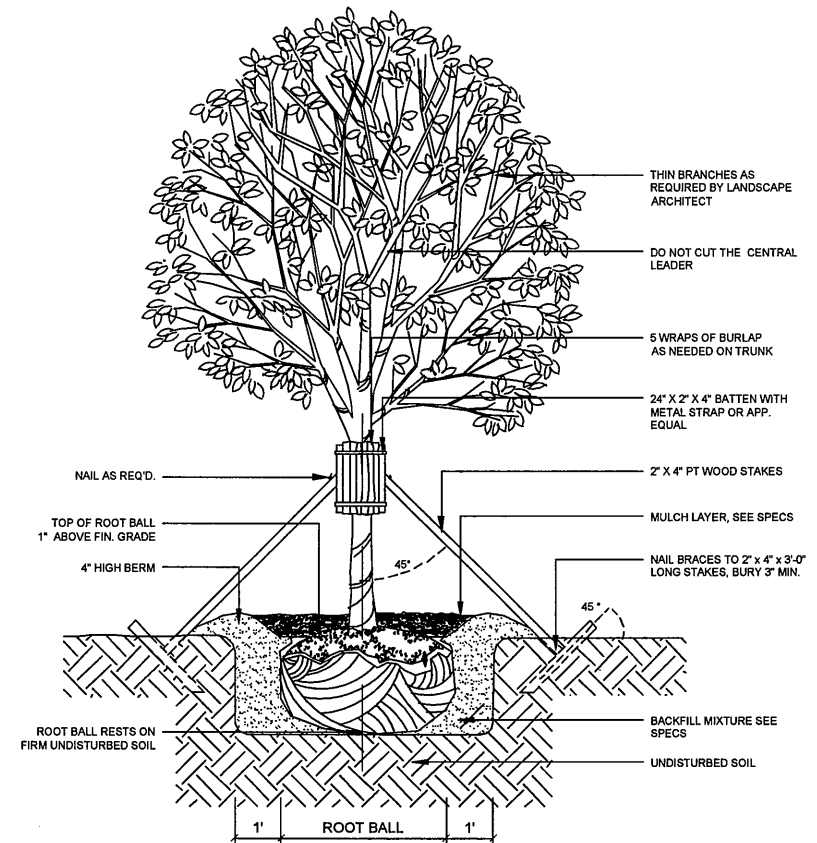
CLEAR ZONE VEGETATION CRITERIA



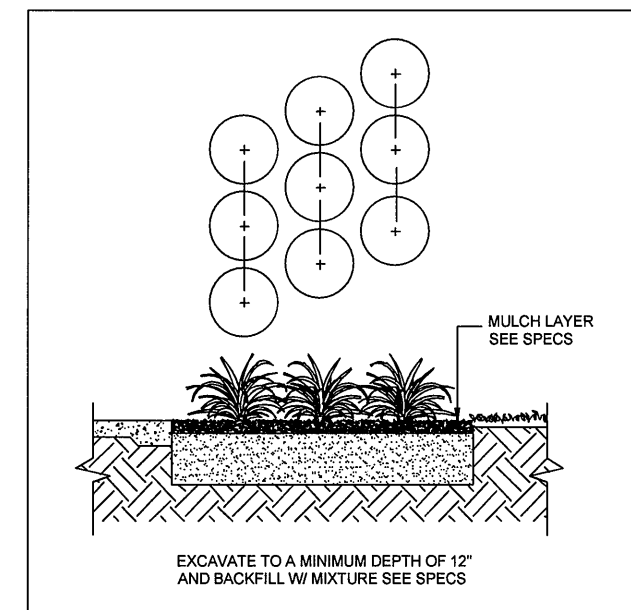
TREE TRIMMING:

No encroachment of trees, tree limbs or vegetation in or over the travel way or clear zone lower than 14-1/2 feet or lower than 8-1/2 feet over sidewalks. No vegetation violates the horizontal clearance as defined by this standard.

NOTE:
 * TRIPLE GUYING AND TRIANGULAR PLACEMENT.
 * REMOVE ALL NURSERY STAKES, SUPPORTS, BRACES, TAPE AND LABELS AT TIME OF PLANTING
 * KEEP MULCH 3"-4" AWAY FROM TRUNK
 * REMOVE CONTAINER AND CUT CIRCLING ROOTS IF CONTAINER-GROWN, OR AS MUCH BURLAP AS POSSIBLE IF FIELD GROWN



1 TYPICAL DETAIL: LARGE TREE STAKING
 SCALE : N.T.S.



2 TYPICAL DETAIL: GROUNDCOVER SPACING
 SCALE : N.T.S.

PERKINS
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 8/24/2017

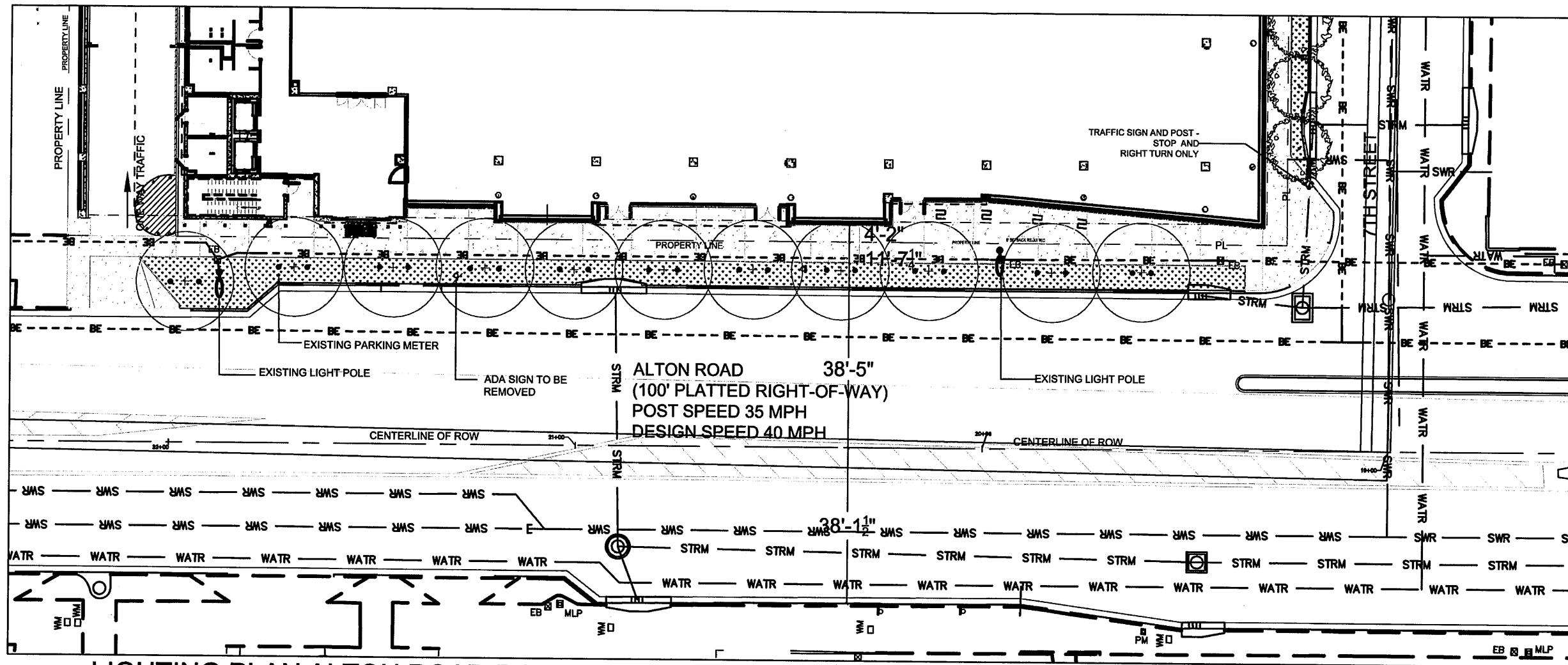
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PLANTING
 DETAILS

Sheet
 LP-2

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1 LIGHTING PLAN ALTON ROAD ROW
SCALE: 1"=30'-0"

NOTE: Contractor is to ensure all lighting fixtures are aimed away from the traffic lanes.

LUMINAIRE SCHEDULE: ALTON ROAD ROW

LABEL	DESCRIPTION	MANUFACTURER	MODEL NUMBER	VOLTAGE	LAMP TYPE	TOTAL WATTS	MOUNTING	NOTES
P1	TREE UPLIGHTS ON GROUND FLOOR	HK LIGHTING	ZXL5-0-A-GSA-12-20W-HK LED 42 3K FSS ACL	12	LED 30K	20	GROUND	REMOTE DRIVER PER ENGINEER PLANS

2 LIGHTING FIXTURE SCHEDULE - ALTON ROAD ROW
N.T.S.

Submitted by Power & Light, Systems, Inc. Catalog Number: ZXL5-0-A-GSA-12-20W-HK LED 42 Type: P1

LED Illumination: 100' Alton Road - Crescent Heights Notes: ZXL5 FSS ACL

Engineer: PERKINS + WILL (Civil/General) Engineer: BR-A (Struct, Plan & Architect) Contracting Engineer: (Civil/General)

ZXL5-0i
Area Accent - ZXL5-0 Series

HK USA Lighting Group

PROJECT: _____
 FEATURE TYPE: _____

Characteristics	Technical Data	Ordering Guide
<ul style="list-style-type: none"> Material: Housing/Cap/Strm. Machined 6061-T6 aluminum/aluminum alloy (6061-T6) recessed to accommodate stainless steel (304/316) hardware Wt. LED: _____ Lamp: _____ Hoods: A Voltage: 120V, 277V Wattage: 20W Reflector: 30° 42° 70° Color Temp: 3K, 4.5K, 6K Power Supply: Integral LED Driver 	<ul style="list-style-type: none"> Series: ZXL5-0 Hoods: A Color/Finish: _____ Voltage: 120V Wattage: 20W Lamp: HK LED Reflector: _____ Color Temp: 3K Material: _____ Finish: _____ 	<p>Ordering Guide</p> <p>Series: <input type="text" value="ZXL5-0"/></p> <p>Hoods: <input type="text" value="A"/></p> <p>Color/Finish: <input type="text" value="_____"/></p> <p>Voltage: <input type="text" value="120V"/></p> <p>Wattage: <input type="text" value="20W"/></p> <p>Lamp: <input type="text" value="HK LED"/></p> <p>Reflector: <input type="text" value="_____"/></p> <p>Color Temp: <input type="text" value="3K"/></p> <p>Material: <input type="text" value="_____"/></p> <p>Finish: <input type="text" value="_____"/></p>

HK USA Lighting Group 3525 Del Ciego Road #118 Hesperia CA 91302 TEL: 805 480 4881 FAX: 805 480 4811 web: hkusa.com

3 LIGHTING FIXTURE - CUT SHEET
N.T.S.



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8-28-2017

Sheet Information

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Title

LIGHTING PLAN

DISTANCE BETWEEN SIGNS

Speed	Spacing (ft.)		
	A	B	C
40 mph or less	200	100	200
45 mph	350	150	350

* 500' beyond the ROAD WORK AHEAD sign or midway between signs whichever is less.

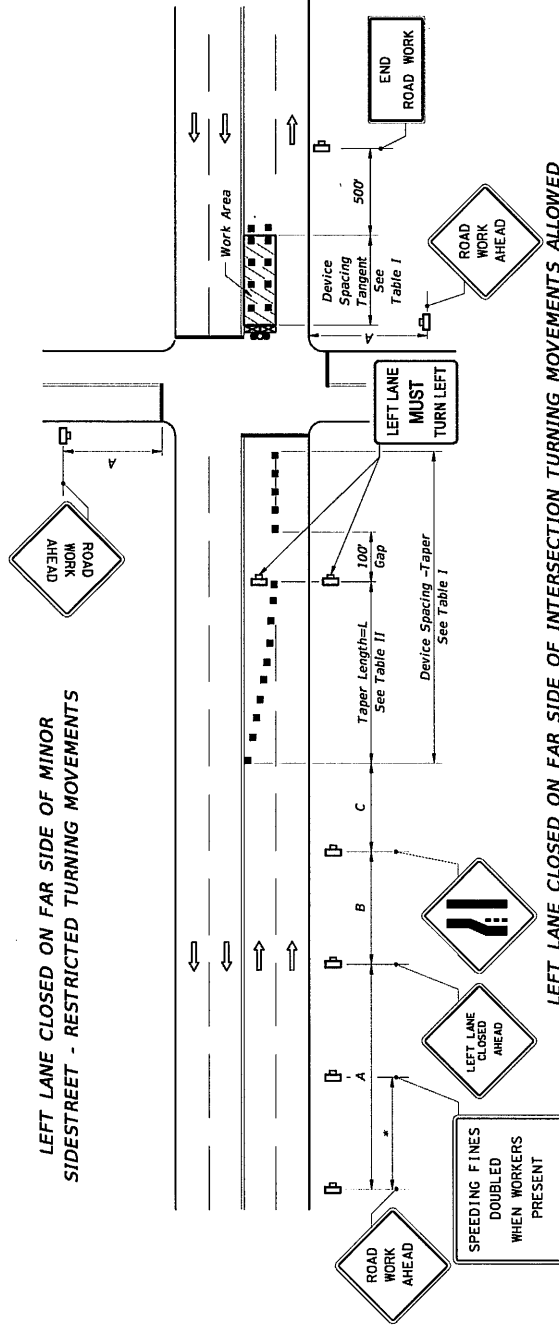
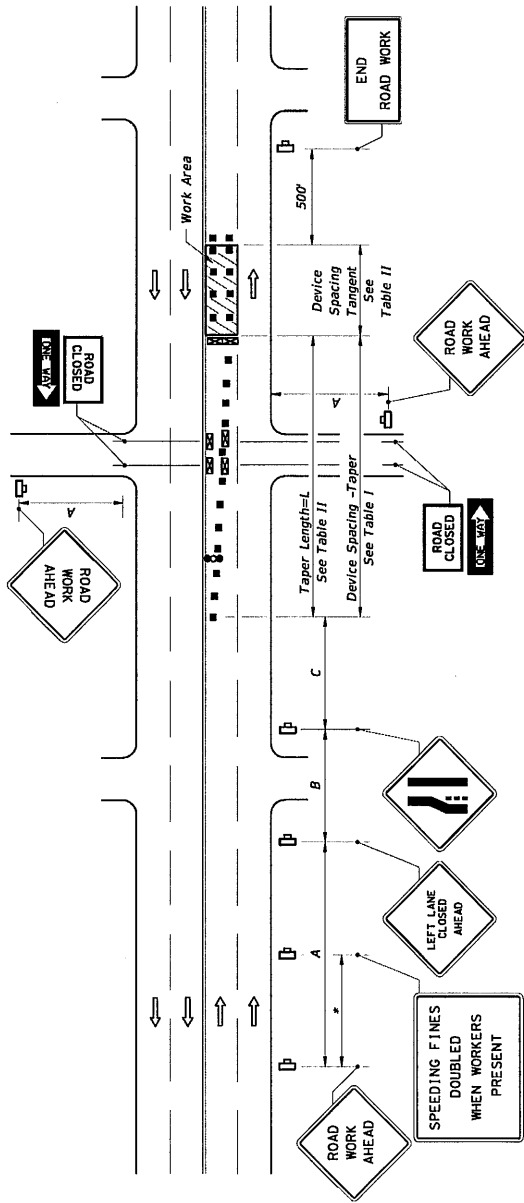
Table I
Device Spacing
Max. Distance Between Devices (ft.)

Speed (mph)	Type I or Type II Cones or Tubular Markers		Type I or Type II Barricades or Vertical Panels or Drums	
	Tangent	Taper	Tangent	Taper
25	25	50	25	50
30 to 45	25	50	30	50

Table II
Taper Length - Merge
(12' Lateral Transition)

Speed (mph)	L (ft.)	Notes (Merge)
25	125	
30	180	$L = WS^2$
35	245	$L = 60$
40	320	
45	540	$L = WS$

For lateral transitions other than 12', use formula for L shown in the notes column. Where:
L = Length of taper in feet
W = Width of lateral transition in feet
S = Posted speed limit (mph)



1. The normal procedure is to close on the near side of the intersection any lane that is not carried through the intersection. However, when this results in the closure of a left lane having significant left turning movements, then the left lane may be reopened as a turn bay for left turns only as show in this detail.

DESCRIPTION:
LAST REVISION
07/01/15

FDOT
FY 2017-18
DESIGN STANDARDS

MULTILANE, WORK NEAR INTERSECTION
MEDIAN OR OUTSIDE LANE

INDEX NO. 616
SHEET NO. 3 of 3