

**ORDINANCE NO. 24-\_\_\_\_\_**

AN ORDINANCE OF THE BOARD OF COUNTY COMMISSIONERS, POLK COUNTY, FLORIDA, LAND DEVELOPMENT CODE AMENDMENT **LDCT-2024-26**, AMENDING ORDINANCE NO. 00-09, AS AMENDED, THE POLK COUNTY LAND DEVELOPMENT CODE, AMENDING SECTION 704, CONSTRUCTION PLANS, SECTION 804, CONSTRUCTION PLANS, SECTION 980, ENFORCEMENT OF SITE REQUIREMENTS, AND SECTION A406 INSPECTION, TESTING AND CERTIFICATION REQUIREMENTS TO REMOVE THE TERM “AS-BUILT” AND REPLACE WITH “RECORD DRAWINGS”; AMENDING CHAPTER 10, DEFINITIONS, TO DEFINE “RECORD DRAWINGS”; AMENDING APPENDIX A, SECTION A203, EXCAVATION, CHANGING FLORIDA BEARING VALUE TO LIMEROCK BEARING RATIO, DELETE SECTION A204, SOIL CEMENT STANDARDS; ADD SECTION A204, ROAD DESIGN ILLUSTRATIONS, AND CONSOLIDATE FIGURES A6 THRU A14 INTO ONE LOCATION; AMENDING SECTION A207, ASPHALTIC CONCRETE SURFACE COURSE, BY DELETING SUBSECTION A207.G, MARSHALL MIXES CONSTRUCTION METHODS; PROVIDING FOR SEVERABILITY; PROVIDING AN EFFECTIVE DATE.

**WHEREAS**, pursuant to Article VIII, Section I(g) of the Constitution of the State of Florida and the Local Government Comprehensive Plan and Land Development Regulation Act, Chapter 163, Part II, Florida Statutes (FS), as amended, (the Act) Polk County is authorized and required to adopt a Land Development Regulations consistent with the Polk County Comprehensive Plan; and

**WHEREAS** the Board of County Commissioners adopted said Land Development Regulations on March 1, 2000, titled the Polk County Land Development Code; and

**WHEREAS**, Chapter 9, Section 903 of the Land Development Code requires Land Development Code Amendments to be a Level 4 Review; and

**WHEREAS**, Chapter 9, Section 907 sets forth the purpose and review process for Level 4 Reviews; and

**WHEREAS**, pursuant to Section 125.67 of the Florida Statutes, every ordinance shall embrace but one subject and matter properly connected therewith; and

**WHEREAS**, pursuant to Section 163.3164 of the Florida Statutes, the Polk County Planning Commission conducted a public hearing, with due public notice having been provided, on the proposed Land Development Code Amendment on December 4, 2024; and

**WHEREAS** the proposed text amendment to the Polk County Land Development Code is intended remove obsolete development standards and correct terminology; and

**WHEREAS**, the Board of County Commissioners, reviewed and considered all comments received during said public hearing, and provided for necessary revisions; and

**NOW, THEREFORE, BE IT ORDAINED** by the Board of County Commissioners of Polk County, Florida that:

*NOTE: The underlined text indicates proposed additions to the current language. The ~~strikeout~~ indicates text to be removed from the current ordinance.*

**SECTION 1: FINDINGS** The findings set forth in the recitals to this Ordinance are true and correct and hereby adopted. In addition, the Board hereby adopts and incorporates herein the staff report and makes the following findings based upon the staff report, testimony, and exhibits presented during the hearing:

- a) The Planning Commission, acting in its capacity as the Local Planning Agency for the County, held a public hearing on December 4, 2024. to consider the LDC text amendment contained within the Application and found it to be consistent with the Comprehensive Plan and recommended that the Board adopt the LDC text amendment contained within the Application.
- b) Pursuant to Section 907.D.10 of the LDC, the Board shall, in the review of the Application, consider the following factors:
  - a. Whether the proposed text amendment is consistent with all relevant requirements of the Code;
  - b. Whether the proposed text amendment is consistent with all applicable policies of the Comprehensive Plan; and
  - c. Any other matter which the BoCC may deem appropriate and relevant to the text amendment proposal.
- c) The Application is consistent with all relevant requirements of the Comprehensive Plan.
- d) The Application is consistent with all relevant requirements of the LDC, including without limitation, Section 907.

**SECTION 2:** Section 704.G, Acceptance of Public Improvements of the Polk County Land Development Code, Polk County Ordinance No. 00-09, as amended, is hereby amended in the following manner:

**G. Acceptance of Public Improvements**

- 1. Upon satisfactory final inspection of any public improvements, such improvements may be approved by the County. Approval of such improvements does not imply acceptance for maintenance by the County.

2. Upon satisfactory final inspection of any public improvements, acceptance of ~~as-built~~ plans record drawings, a list of estimated values for County roadway, drainage, and utility improvements, and required test reports, staff shall recommend the County accept responsibility for the maintenance of such improvements for the next available Board meeting, provided that such improvements are on land, which the County owns, or for which it has accepted an offer of dedication or easement, and a maintenance security is submitted in accordance with Section 909. Such acceptance shall be evidenced by a written or stamped acceptance of improvements executed by appropriate County departments. Unless and until the County acquires such interests, maintenance of such improvements shall remain the sole responsibility of the applicant.

**SECTION 3:** Section 804.D, Inspection and Certification, Section 804.E, Approval of Private Improvements and Section 804.F, Acceptance of Public Improvements of the Polk County Land Development Code, Polk County Ordinance No. 00-09, as amended, is hereby amended in the following manner:

**D. Inspection and Certification** (Rev 10/07/09 - Ord. 09-061; 2/22/06 - Ord. 06-11; Rev. 10/12/05 - Ord. 05-062; Rev. 12/08/03 - Ord. 03-69)

1. Before construction of public or private improvements begins, the applicant shall designate an engineer of record and testing laboratory for the project. It shall be the responsibility of the engineer of record to conduct necessary field inspections during construction to ensure that the project is constructed according to the plans and specifications. It shall be the engineer's responsibility to make the field determinations of the locations where tests are to be performed in order to ensure that the test results reported are representative of the work performed and that no faulty construction is approved without being removed and replaced.
2. The applicant shall keep a copy of the approved construction plans and any development approval transmittal letter on-site during construction activity. Each stage of construction shall be accepted by Polk County before proceeding, at his/her own risk, to the next stage of construction by providing test reports meeting Polk County specifications. Passing field test results may, at the discretion of the County Engineer or his/her representative, be used to allow the next stage (for example: stabilized subgrade or base course) to proceed. Should conditions indicate non-compliance with the approved plans and specifications, Polk County shall require remedial actions as necessary. When the project is completed, the engineer shall submit record drawings and shall certify that the work was substantially constructed according to the project plans and specifications based upon the engineer's site reviews and certification a Professional Surveyor and Mapper for the project.
3. Changes in plans or specifications substantially affecting conformance to standards or performance of systems must be requested by the engineer of record during construction prior to the implementation of such changes. Such changes (for example: drainage and alignment) must be requested in writing and approved by the County Engineer. Changes of base course material to another base course material listed as an optional base course on the typical sections in Appendix A may be approved by the project inspector and noted in the project file.

4. The County Engineer may perform or require any inspection necessary to verify conformance with plans and specifications. The applicant, or the contractor retained by the applicant to construct the development, shall give the County Engineer at least five (5) days written notice before commencement of any construction. The applicant or contractor shall conduct a pre-construction meeting prior to commencement of construction of any public improvement.
5. All tests shall be performed, at owner's risk, and samples taken as directed by the testing engineer in conformance with FDOT requirements. For any area where the tested sample is deficient from the specifications, the area shall be re-worked and re-tested until a passing test is obtained. Test results for all required tests, including re-tests showing passing results for all deficient areas, along with a certification by the testing engineer that the materials tested meet the specifications, shall be submitted to the engineer of record and the County Engineer prior to the commencement of the next construction phase. All testing shall conform with Appendix A, Technical Standards Manual, and FDOT Standard Specifications.

The testing engineer or contractor shall ensure that an appropriate County Inspector is notified to be present at the start of paving work and at any test or re-test performed. Notification must be provided at least two days prior to start of work or testing. Any road work including paving, base course, sub-grade, or backfill for storm pipes, utility lines, and structures, that are tested without the presence of a County Inspector will be required to be uncovered and re-tested at the applicant's cost until tests or re-tests show passing results.

6. ~~As-built~~ (Record drawings) prepared to specifications of the County and certified by the engineer of record, showing the actual installation of all improvements shall be provided.
7. The applicant, or the contractor retained by the applicant to construct the public improvements, shall maintain a temporary construction identification sign at the construction site providing information such as project name, developer and/or contractor name and emergency phone number.

**E. Approval of Private Improvements**

Upon satisfactory final inspection of any private improvements, receipt of record drawings and required test reports, the County shall approve all such improvements. Such approval shall be evidenced by a written or stamped approval of improvements executed by appropriate departments. Maintenance of such private improvements remains the sole responsibility of the applicant.

**F. Acceptance of Public Improvements**

1. Upon satisfactory final inspection of any public improvements, such improvements may be approved by the County. Approval of such improvements does not imply acceptance for maintenance by the County.
2. Upon satisfactory final inspection of any public improvements, acceptance of ~~as-built plans~~ record drawings, a list of estimated values for roadway improvements, and required test reports, the County shall accept responsibility for the maintenance of such improvements, provided that such improvements are on land which the

County owns or for which it has accepted an offer of dedication or easement. Such acceptance shall be evidenced by a written or stamped acceptance of improvements executed by appropriate County departments. Unless and until the County acquires such interests, maintenance of such improvements shall remain the sole responsibility of the applicant.

**SECTION 4:** Section 980, Enforcement of Site Requirements, of the Polk County Land Development Code, Polk County Ordinance No. 00-09, as amended, is hereby amended in the following manner:

**Section 980 Enforcement of Site Requirements** (Revised 02/05/19 - Ord. No. 19-008)

The purpose of this Section is to enforce the conditions of approval from the Planning Commission, Land Use Hearing Officer, and the BoCC.

**A. Inspection**

The Department shall implement a procedure for periodic inspection of development work in progress to ensure compliance with the development approvals which authorized the activity.

**B. Minor Deviations** (Revised 3/17/10 - Ord. 10-011)

A Minor Deviation to approved Level 2 Review plans may be approved by the County Engineer or his/her assigns in the field and documented by the applicant through submittal of ~~as-built plans~~ record drawings. Minor Deviations include the following changes to approved plans:

1. Any minor adjustment in engineering or construction details which in no way affects the approved use or function of the development, or its surrounding uses, owners or properties including, but not limited to;
  - a. Changes to materials such as pipe composite, plant species, roadway or parking lot base, sprinkler head emitter, etc., that still meet the standards set forth in this Code;
  - b. Changes in stormwater pond dimensions so long as volume is not diminished or structures are not relocated; or,
  - c. Deviations in intersection or sidewalk alignment no greater than 15 feet;
2. A reduction in the number of lots; or
3. Any minor adjustment in internal road alignment, either horizontal or vertical, which does not affect the function of the development and does not violate any other agency regulations.

If the change in plans does not meet the criteria listed above or the County Engineer interprets a Minor Deviation request to be a Major Deviation, the applicant may either submit application for a Minor Revision as enabled in Section 704 C. or submit a full re-review of the Level 2 Plans, whichever the County Engineer determines. Regardless of the process by which a deviation is approved, it shall be the applicant's responsibility to provide ~~as-built plans~~ record drawings to document

the changes to the approved Level 2 Review Plans. Certificate of Occupancy shall not be granted until ~~as-built plans~~ record drawings are submitted.

**C. Major Deviations** (Revised 3/17/10 - Ord. 10-011)

1. If the work is found to have one or more Major Deviations, the County Engineer shall:
  - a. Place the matter on the next agenda of the Development Review Committee (DRC) allowing for adequate notice; or,
  - b. Issue a stop work order and refuse to allow occupancy of all or part of the development if deemed necessary to protect the public interest. The order shall remain in effect until the DRC determines that work or occupancy may proceed pursuant to the decision of the DRC; or
  - c. Refer the matter to the Building and Codes Division, if it appears that the applicant has committed violations within the jurisdiction of the Code Enforcement Special Magistrate.

**D. Action of the Applicant After Revocation of Development Order**

After a decision, approval or permit has been revoked, development activity shall not proceed on the site until a new plan or permit is granted in accordance with procedures for original approval.

**SECTION 5:** Chapter 10, Definitions, of the Polk County Land Development Code, Polk County Ordinance No. 00-09, as amended, is hereby amended to add, delete, or modify the following definitions:

...

**Record Drawings:** drawings based on an as-built survey bearing the seal and signature of a professional engineer that reflect the modifications made to construction documents, documenting actual constructed conditions of the engineered plans (Level 2 Review).

...

**SECTION 6:** Section A204, Soil Cement Standards, of the Polk County Land Development Code, Polk County Ordinance No. 00-09, as amended, is hereby removed from the LDC in the following manner:

**Section A204 Soil Cement Standards Road Design Illustrations**

~~Soil Cement shall consist of soil and Portland Cement uniformly mixed, moistened, compacted, finished and cured in accordance with these specifications, and shall conform to the lines, grades, thicknesses and typical cross-section shown on the plans.~~

**A. Testing**

- ~~1. Processing of the base shall not be started until the soil cement design mix, which has been prepared by a registered engineer for the particular soil, has been submitted to and approved by the engineer of record. A modified PCA Short Cut Procedure for sandy soil~~

~~test method may be used. However, a minimum seven day laboratory compressive strength of 300 psi shall be required. Locations for the tests shall be chosen by the engineer of record at locations where weakness is suspected and shall be staggered to the left, right, and on the centerline of the road. Testing results shall be submitted by the engineer of record to the County Engineer. When, in the judgment of the County Engineer conditions warrant additional testing to assure compliance with specifications, the engineer of record will be advised and arrangements will be made by the engineer of record for the additional testing. Sampling of soil cement pills shall be spaced at a maximum of 300 feet apart. All tests shall be the responsibility of the engineer of record. A minimum of two sets of pills will be required per road.~~

- ~~2. Construction of the soil cement base shall not proceed without 24 hour notice to the County. The following is the minimum information/test data required to be obtained during construction:~~
  - ~~a. Area and date of construction~~
  - ~~b. Average cement spread~~
  - ~~c. Uniformity of mix~~
  - ~~d. Moisture content at time of compaction~~
  - ~~e. Percent compaction (95 percent of T-134)~~
  - ~~f. Compacted thickness~~
  - ~~g. Seven day compressive strength tests be required~~
- ~~3. In addition to the above data, the engineer of record, the County Engineer and the contractor shall perform a detailed engineering inspection of the hardened soil cement base prior to approval for paving to assure that the soil cement base has set up satisfactorily and that no soft areas or surface scabs exist which may need repair. All deficiencies shall be corrected and approved by the County prior to paving.~~
- ~~4. The engineer of record shall prepare and submit to the County a signed report documenting the mix design and all field tests and observations.~~

#### **~~B. Materials~~**

- ~~1. Portland Cement shall be Type I or Type I-P and shall comply with the Standard Specifications for Portland Cement ASTM C-145. Cement which is partially set, lumpy or caked shall not be used. One cubic foot of Portland Cement shall be considered to weigh 94 lbs.~~
- ~~2. Water shall be clean and free from substance deleterious to the hardening of the soil cement.~~
- ~~3. Only soils which have proven themselves to produce a high quality soil cement base shall be acceptable. New sources of soil cement material shall be approved by the County Engineer prior to use.~~

#### **~~C. Equipment~~**

~~Soil cement may be constructed with any machine, combination of machines or equipment that will produce the results meeting the requirements for soil pulverization, cement~~

application, mixing, uniform depth control, water application, incorporation of materials, compaction, finishing and curing, as required by these specifications.

**D. ~~Construction Methods~~**

1. ~~The contractor is responsible for completing the project in accordance with plans and specifications and with experienced competent supervision.~~
2. ~~Before construction operations are begun, the area to be mixed shall be graded, shaped, and sufficiently moistened, as required, to construct the soil cement base in conformance with the grades, lines, thicknesses and typical cross section shown on the plans. Additional soil needed, if any, shall be placed as directed. Unsuitable soil or material shall be removed and replaced with acceptable soil.~~
3. ~~The soil shall be so pulverized that, at the completion of moist mixing, 100 percent by dry weight passes a one inch sieve, and a minimum of 80 percent passes a No. four sieve, exclusive of gravel or stone retained on these sieves.~~
4. ~~The application of cement shall conform to the following:~~
  - a. ~~The specified quantity of Portland Cement required for full depth treatment shall be applied uniformly on the soil. When bulk cement is used, equipment suitable for handling, measuring and spreading the cement shall be used. The percentage of moisture in the soil, at the time of cement application, shall not exceed the quantity that will permit a uniform and intimate mixture of soil and cement during mixing operations and shall not exceed the specified optimum moisture content by more than two percent for the soil cement mixture. No equipment, except that used to spread and mix the soil cement, will be allowed to pass over the freshly spread cement until it is mixed with the soil.~~
  - b. ~~The operations from application of cement to finishing, inclusive shall be continuous and surface finishing shall be completed as soon as possible. Spread cement that has been displaced shall be replaced before mixing is started. No cement shall be applied when the soil or subgrade is frozen. The air temperature shall be at least 40°F in the shade and rising.~~
5. ~~After the cement has been applied, it shall be thoroughly mixed with the soil. Mixing shall continue until the cement has been thoroughly blended with the soil in order to prevent the formation of cement balls when water is applied. Any soil and cement mixture that has not been compacted and finished shall not remain undisturbed for more than 30 minutes.~~
6. ~~The application of water and moist mixing shall conform to the following:~~
  - a. ~~Immediately after or during the mixing of soil and cement, and before beginning the compaction, the moisture content of the soil cement mixture shall be determined by the laboratory and, if required, water shall be applied uniformly in quantities required to obtain proper moisture content. After the final application of water, mixing shall be continued until the water is distributed uniformly through the full depth of the mixture.~~
  - b. ~~When water application and mixing has been completed, the percentage of moisture in the mixture and in unpulverized soil lumps, based on oven-dry weights, shall not~~



be more than two percentage points above the specified optimum moisture content, and shall be less than that quantity which will cause the soil cement mixture to become unstable during compaction and finishing.

- ~~7. Prior to beginning of compaction, the mixture shall be in a loose condition for its full depth. The loose mixture shall then be uniformly compacted until the entire depth of the mixture is compacted to at least 95 percent of the maximum density prescribed in AASHTO T-134 as determined in the field on representative samples of soil cement mixture obtained from the road at the time compaction begins. During the compaction operations, shaping may be required to obtain the required grade and cross section.~~
- ~~8. Finishing shall consist of the following:~~
  - ~~a. After the mixture has been initially compacted, the surface of the soil cement shall be shaped to the required lines, grades and cross section. During the shaping operations, the surface shall be lightly scarified to loosen any imprints left by the compacting or shaping equipment, when deemed necessary. The resulting surface shall then be compacted to the specified density with a pneumatic tire roller. Rolling shall be supplemented by broom dragging, if required.~~
  - ~~b. The moisture content of the surface material must be maintained at not less than its specified optimum moisture content during finishing operations. Surface compaction and finishing shall be done in such a manner as to produce a smooth, dense surface, free of surface compaction planes, cracks, ridges or loose material. Surface finishing methods may be varied, provided a smooth, dense surface, free of surface compaction planes, is produced. The moisture and density requirements shall be determined by the methods prescribed in AASHTO T-134.~~
- ~~9. After compaction and finishing have been completed, and not later than the beginning of the next calendar day after the construction of any section of the base, the surface shall be tested with a template cut to the required crown or with a straight edge of 15 feet laid parallel to the centerline, and all irregularities greater than 1/4 inch shall be immediately corrected with a blade adjusted to the lightest cut, which will ensure a surface that does not contain depressions greater than 1/4 inch under the template or the straight edge. The material removed shall be wasted. Additional wetting, during and after this final shaping operation will be required to keep the base continuously moist.~~
- ~~10. Prime/curing shall consist of the following:~~
  - ~~a. After the soil cement has been finished as specified herein, it shall be protected against drying for seven days by the application of bituminous coating. The curing material shall be applied as soon as possible after the completion of finishing operations. The finished soil cement shall be kept continuously wet until the curing material is placed. The curing material shall be maintained by the contractor during the seven day protection period.~~
  - ~~b. Prime and curing materials shall conform to Section A204.~~
- ~~11. Prior to the beginning of each day's construction, a straight transverse construction joint shall be formed by cutting back into the completed work to form a true vertical face.~~
- ~~12. Thickness requirements shall conform to the following:~~

- a. ~~During various stages of construction, test holes or trenches shall be dug in the mixture to determine the thickness. After the base is completed test holes shall be dug or drilled at intervals of not more than 300 feet, or at closer intervals, if necessary, and the thickness of the base shall be determined from measurements made in these test holes.~~
- b. ~~Where the base is deficient in thickness by more than 11 inch, the area of deficient base shall be removed and replaced by base of the required thickness, at the contractor's expense, except that, at the engineer's option, such deficient thickness base may be left in place provided the deficiency is not more than one inch. This deficiency may be made up in asphaltic concrete if the grade control can be met.~~

#### **E. ~~Opening to Traffic~~**

~~The contractor will not be permitted to drive heavy equipment over the completed sections, but light weight pneumatic tired equipment may be permitted after the surface has hardened sufficiently to prevent the equipment from marking the surface and provided the protection and curing specified are not impaired. Completed sections may be opened to light traffic after 24 hours protection provided the surface has hardened sufficiently to prevent marking by traffic.~~

#### **F. ~~Maintenance~~**

1. ~~The contractor shall maintain the base to a true and satisfactory surface until the wearing surface is constructed. Should any repairs or patching be necessary, they shall extend to the full depth of the base and shall be made in a manner that will assure restoration of a uniform base course conforming to the requirements of these specifications. In no case shall repairs be made by adding a thin layer of soil cement or concrete to the completed work. The contractor may, at his option, make full depth repairs to small or minor areas, such as at manholes, inlets, or the like, with Class I concrete.~~
2. ~~The patching of deficient areas less than 100 square feet and less than one inch in depth, the area shall be corrected using Type S III Asphalt. For patching of deficient areas less than 100 square feet and greater than one inch in depth, the area shall be removed to full depth and replaced, using Asphalt Base Course Type III, Type S Asphalt, or soil cement.~~

#### **G. ~~Inspection~~**

~~After a minimum of seven days have elapsed, and prior to applying the asphalt wearing surface, an inspection of the base shall be performed by the County Engineer, engineer of record and contractor. All deficiencies shall be corrected and approved by the County Engineer prior to commencing paving operations.~~

#### **H. ~~Batch Plant Soil Cement Construction Specifications~~**

1. ~~The supplier shall submit a mix design prepared by a registered engineer to the County Engineer, for approval, prior to use of the material for road construction. Also, the supplier shall continuously monitor at the plant the batching and mixing of the material and submit to the County Engineer, as requested, reports, prepared by the engineer of the gradation, cement content, and moisture content. The engineer shall monitor the installation and conduct applicable tests and inspections.~~

2. The base material will be hauled to the project site from the batch plant and immediately placed on top of the prepared subgrade. The material shall be graded to conform to the lines and grades of the finished pavement section as shown on the project drawings and shall be placed in a sufficient thickness to assure the minimum required compacted thickness.
3. The material shall be placed in a single uniformly thick layer and compacted to a density not less than 95 percent (AASHTO T-134). Not more than four hours shall elapse from the time of batching to final compaction and the material shall not remain undisturbed for more than two hours. The surface of the base materials may require the addition of water during the final rolling and shaping operation to prevent excessive surface moisture losses prior to sealing the base.

Figure A6  
SWALE SECTION

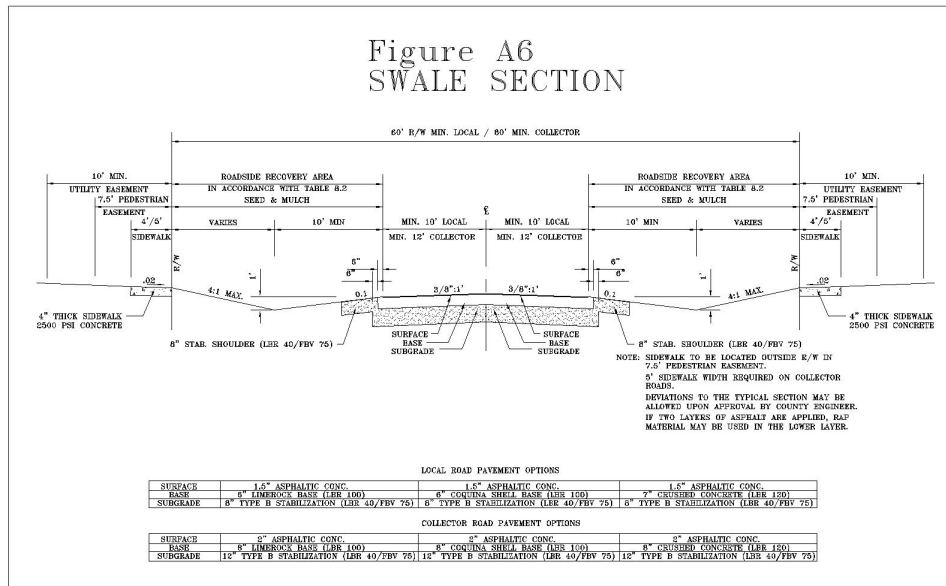
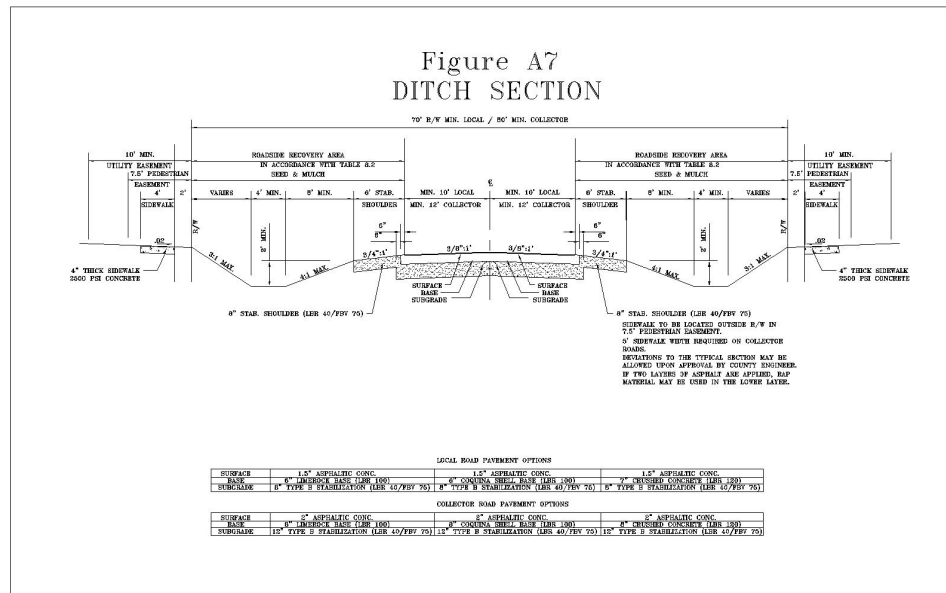
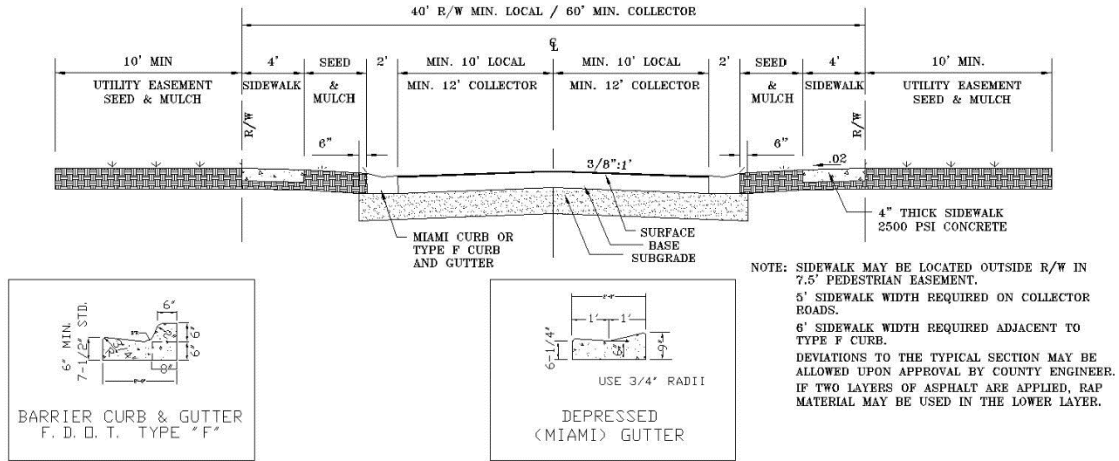


Figure A7  
DITCH SECTION



# Figure A8 CURB SECTION



CURB & GUTTER SECTION

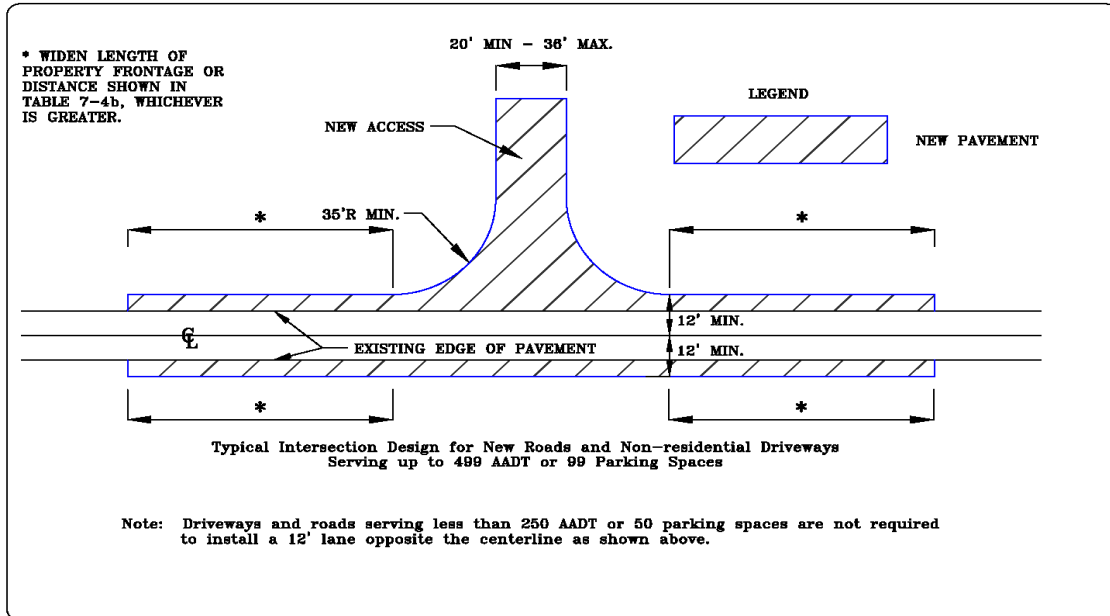
LOCAL ROAD PAVEMENT OPTIONS

|          |                                         |                                         |                                         |
|----------|-----------------------------------------|-----------------------------------------|-----------------------------------------|
| SURFACE  | 1.5" ASPHALTIC CONC.                    | 1.5" ASPHALTIC CONC.                    | 1.5" ASPHALTIC CONC.                    |
| BASE     | 6" LIMEROCK BASE (LBR 100)              | 6" COQUINA SHELL BASE (LBR 100)         | 7" CRUSHED CONCRETE (LBR 120)           |
| SUBGRADE | 8" TYPE B STABILIZATION (LBR 40/FBV 75) | 8" TYPE B STABILIZATION (LBR 40/FBV 75) | 8" TYPE B STABILIZATION (LBR 40/FBV 75) |

COLLECTOR ROAD PAVEMENT OPTIONS

|          |                                          |                                          |                                          |
|----------|------------------------------------------|------------------------------------------|------------------------------------------|
| SURFACE  | 2" ASPHALTIC CONC.                       | 2" ASPHALTIC CONC.                       | 2" ASPHALTIC CONC.                       |
| BASE     | 8" LIMEROCK BASE (LBR 100)               | 8" COQUINA SHELL BASE (LBR 100)          | 8" CRUSHED CONCRETE (LBR 120)            |
| SUBGRADE | 12" TYPE B STABILIZATION (LBR 40/FBV 75) | 12" TYPE B STABILIZATION (LBR 40/FBV 75) | 12" TYPE B STABILIZATION (LBR 40/FBV 75) |

**Figure A9**  
**Type I Intersection Geometric Plan**



**Type I Intersection Striping Plan**

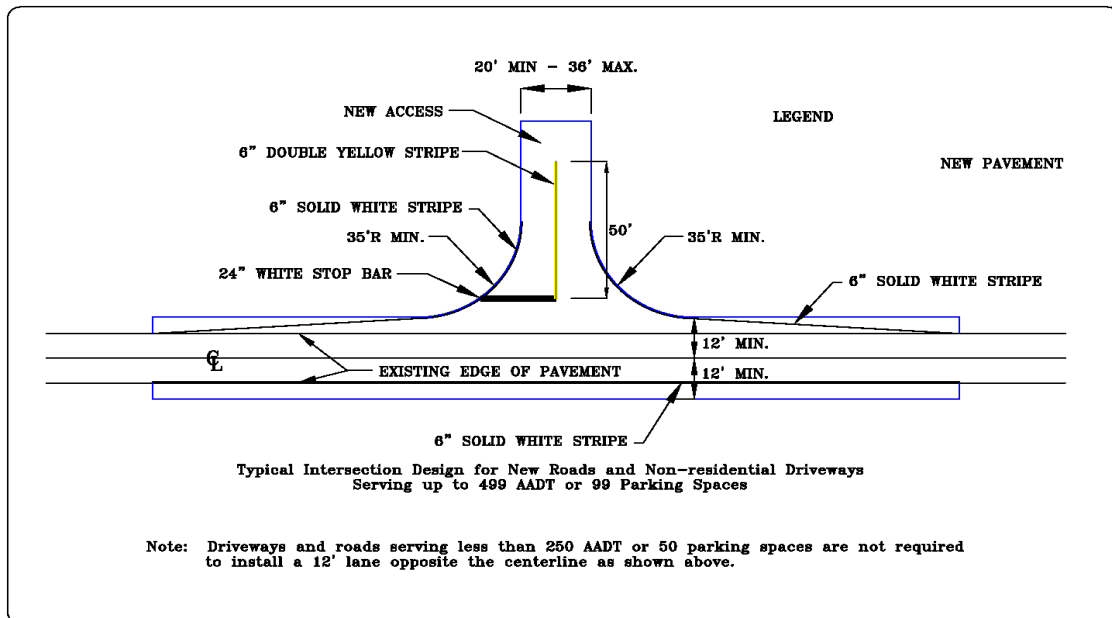
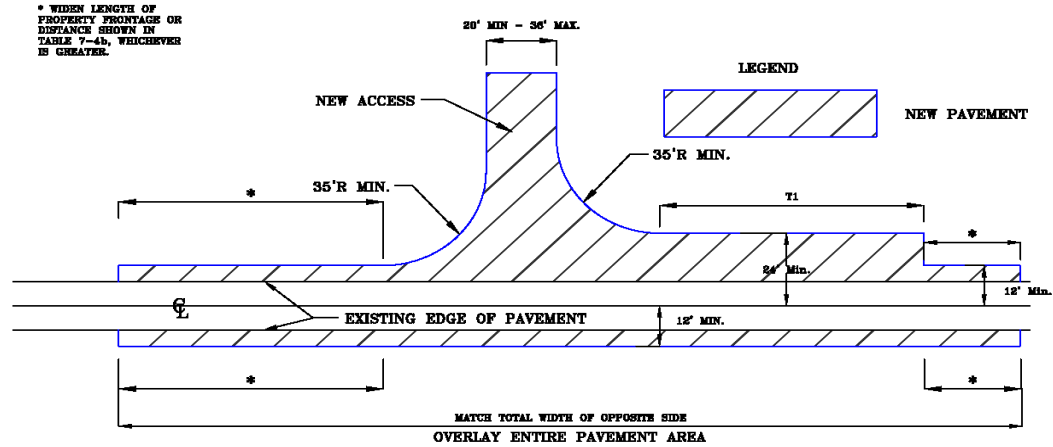
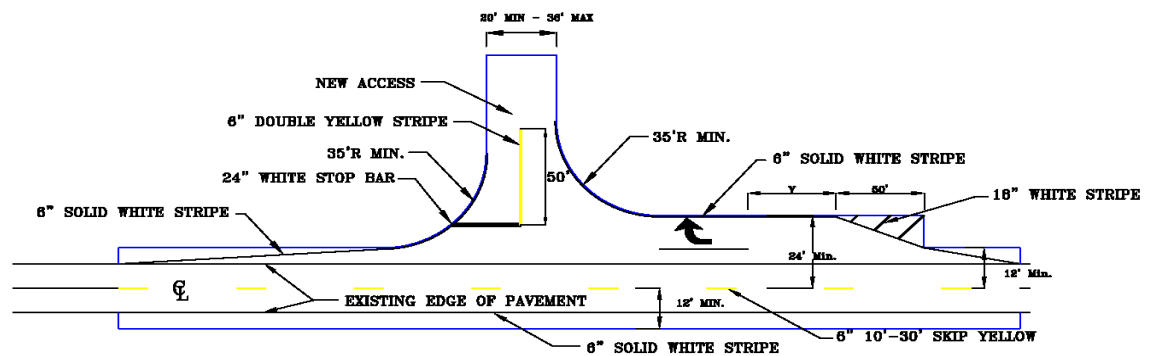


Figure A10  
Type II Intersection Geometric Plan



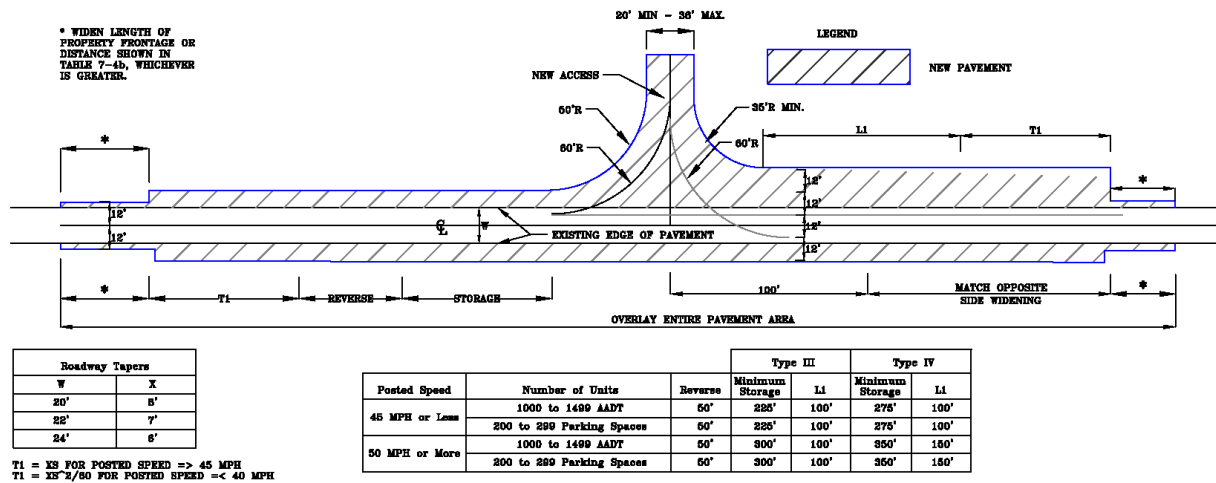
| Posted Speed   | Number of Units           | T1   |
|----------------|---------------------------|------|
| 45 MPH or Less | 500 to 999 AADT           | 210' |
|                | 100 to 199 Parking Spaces | 210' |
| 50 MPH or More | 500 to 999 AADT           | 250' |
|                | 100 to 199 Parking Spaces | 250' |

Type II Intersection Striping Plan

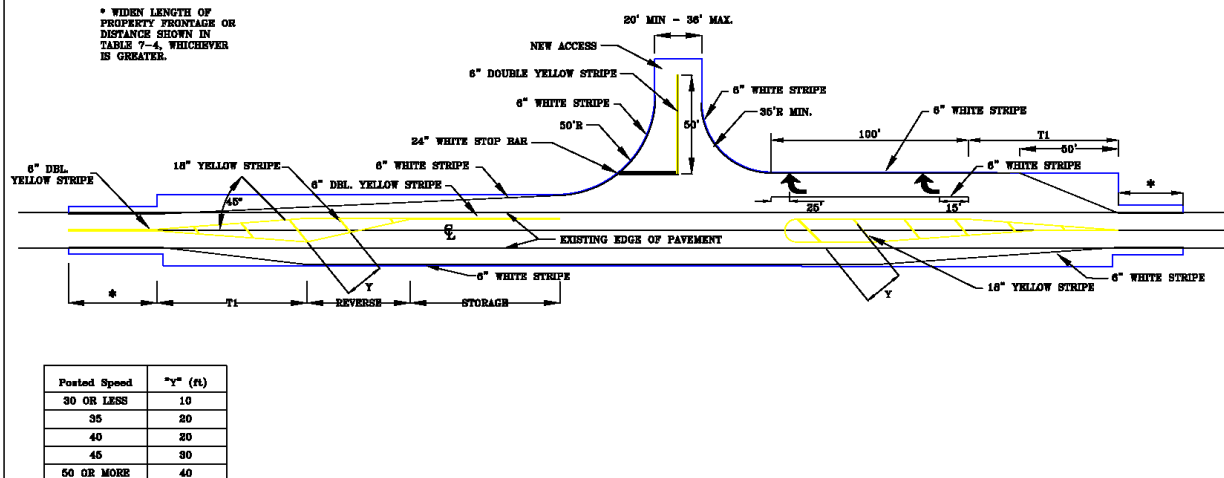


| Posted Speed | Y   |
|--------------|-----|
| 35           | 30' |
| 40           | 35' |
| 45           | 40' |
| 50           | 48' |
| 55           | 52' |

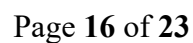
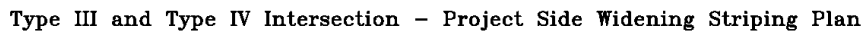
**Figure A11**  
**Type III & IV Intersection – Center Widening Geometric Plan**



### Type III & IV Intersection - Center Widening Striping Plan

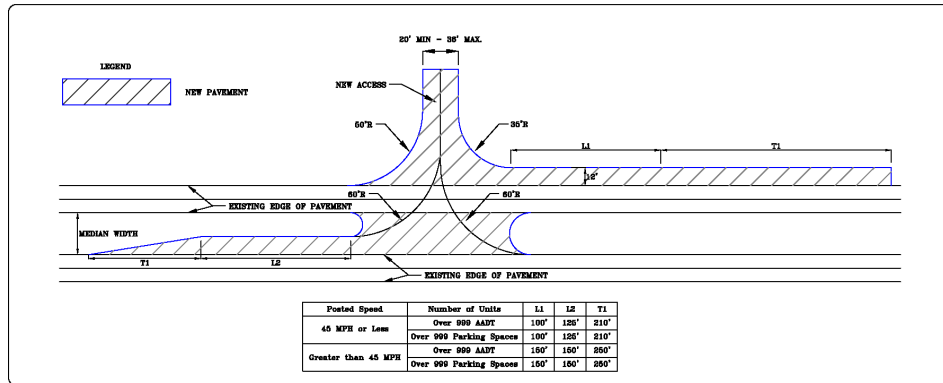


### Type III and Type IV Intersection – Project Side Widening Geometric Plan





# Type V Intersection (Divided Highway) Geometric Plan



# Type V Intersection (Divided Highway) Striping Plan

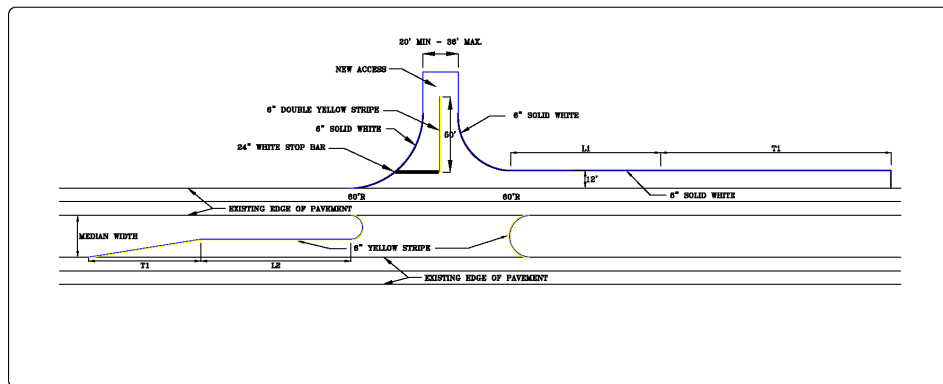
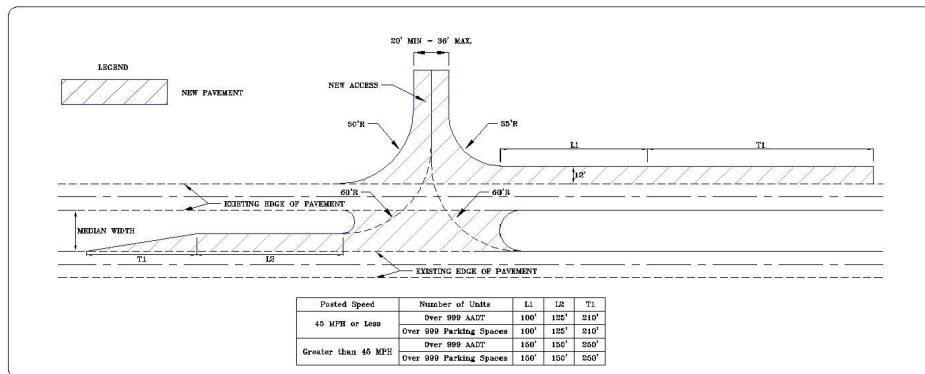
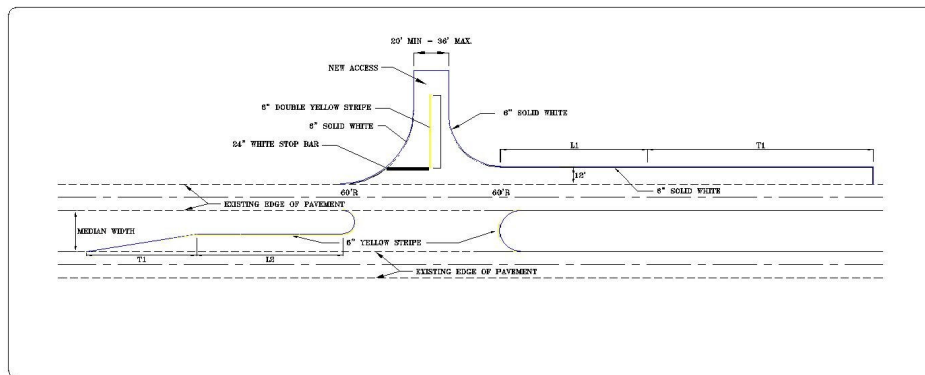


Figure A14  
Type VI Intersection (Divided Highway) Geometric Plan



# Type VI Intersection (Divided Highway) Striping Plan



**SECTION 7:** Section A203, Excavation, Polk County Ordinance No. 00-09, as amended, is hereby amended in the following manner:

### **Section A203 Excavation**

This Section applies to excavation and embankment required for roads, ditches, channel changes and other works. Unless otherwise provided, this Section shall include all excavation, shaping, filling, sloping and finishing necessary for the construction, preparation, and the completion of all embankments, subgrades, shoulders, ditches, slopes, gutters, intersections, approaches, private entrances and other works, all in accordance with the required alignment, grade, and cross sections shown on the plans.

#### **A. Requirements**

1. While the excavation is being done and until the work is finally accepted, the contractor shall take the necessary steps to protect the work to prevent loss of material from the construction area due to the action of wind or water. During construction, the area shall be maintained in such condition that it will not constitute a hazard and will be well drained at all times.
  - a. Where muck, rock, clay, phosphate slimes or other material is encountered within the limits of the construction area, the engineer of record shall direct that the material be excavated completely and backfilled with suitable materials. Other unsuitable plastic materials, identified as A-2-6, A-2-7, A-5, A-6, A-7 (AASHTO Designation), will be removed.
  - b. The placing of embankments shall conform to the following:
    - i. Embankments shall be constructed true to lines, grades and cross sections shown on the plans, within a 0.1 foot tolerance, unless otherwise specified on the approved plans.
    - ii. Embankments shall be constructed of suitable materials placed in successive level layers not more than 12 inches in thickness, loose measure, for the full width and length of the embankment to the bottom of the stabilized subgrade and 98 percent of AASHTO T-180 Method "D" for the stabilized subgrade and base, and compacted to a minimum density of 100 percent of the maximum density value as determined by AASHTO T-99 Method "C."
  - c. Shoulders, ditches and slopes shall conform to the following:
    - i. When the work includes surfacing or paving, the earthwork, including the slopes and all drainage structures shall be substantially completed before the construction of the base course and pavement is started.
    - ii. Where a stabilized shoulder is required, the earth shoulders, slopes, and side ditches shall be completed and shaped to a surface which is within 0.1 foot above or below the true surface shown on the plans, except that, adjacent to pavement, curb, or sidewalk, the shoulders shall be shaped to match the edge of the pavement, curb or sidewalk. The shoulder lines shall not vary more than 0.3 foot horizontally from the true lines shown on the plans.
2. Subgrade shall be defined as that portion of the roadbed immediately below the base course or pavement including below the curb and gutter, the limits of which will ordinarily include those portions of the roadbed shown in the plans. The limits of the subgrade shall be considered to extend outward to six inches beyond the base. On roads where curbs are constructed, the subgrade shall extend to six inches beyond the back of curb as follows:

- a. The subgrade of limerock/clay shall:
  - i. Stabilize to ~~75 psi Florida Bearing Value~~ Limerock Bearing Ratio (LBR) 40
  - ii. Compact to 98 percent of AASHTO T-180 Method "D"
- ~~b. The subgrade of soil cement shall Compact to 95 percent of AASHTO T-134.~~
- ~~e.b.~~ The subgrade of curbs shall:
  - i. Stabilize to ~~75 psi Florida Bearing Value~~ or LBR 40
  - ii. Compact to 98 percent of AASHTO T-180 Method "D" to include both sides of road.
- ~~d.c.~~ The stabilization material shall be high bearing value soil, sand-clay, limerock, shell, or other material approved by the engineer of record and shall meet the physical requirements of FDOT Standard Specifications Section 914-2.
- ~~e.d.~~ The surface of the subgrade shall conform to the lines and grades as defined on the construction plans to a tolerance of 0.05 feet.
- ~~f.e.~~ Tests for the subgrade bearing capacity, thickness and compaction shall be spaced at a maximum of ~~300~~ 600 feet apart. Locations for the tests shall be chosen by the engineer of record at locations where weakness is suspected and shall be staggered to the left, right, and on the centerline of the road. Testing results shall be submitted by the testing engineer of record to the County Engineer. When, in the judgment of the County Engineer conditions warrant additional testing to assure compliance with specifications, the engineer of record will be advised, and arrangements will be made by the engineer of record for the additional testing. All tests shall be the responsibility of the engineer of record. A minimum of three tests per road is required (one if road is less than 600 feet). Testing for stabilized shoulders shall include both sides of the road.
- ~~g.f.~~ After the subgrade has been completed as specified above, the contractor shall maintain it free from ruts, depressions and any damage resulting from the hauling or handling of materials, equipment, and tools. It shall be the contractor's responsibility to maintain the required density until the subsequent base or pavement is in place. Such responsibility shall include any repairs, or replacement, of curb, gutter, or sidewalk, which might become necessary in order to recompact the subgrade/subbase in the event of underwash or other damage occurring to the previously compacted subgrade/subbase. Ditches and drains shall be constructed and maintained along the completed subgrade section.

**SECTION 8:** Section A207, Asphaltic Concrete Surface Course, Polk County Ordinance No. 00-09, as amended, is hereby amended in the following manner:

**Section A207 Asphaltic Concrete Surface Course**

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~~G. Marshall Mixes Construction Methods (Rev. 10/07/09 Ord. 09-061)~~

- ~~1. No pavement shall commence until:~~
  - ~~a. The Contractor has submitted a pavement mix design signed and sealed by a Professional Engineer licensed in the State of Florida;~~

- ~~b. The County Engineer has approved the mix design and provided written or electronic authorization to pave; and~~
- ~~c. A pre paving meeting has been held with Polk County.~~
- ~~2. The mixture shall be spread on the surface designated only when the surface previously prepared is intact, firm, properly cured and dried; and only when the air temperature in the shade and away from artificial heat is above 40°F and rising. The mixture shall not be spread when the wind is blowing to such an extent that proper and adequate compaction cannot be maintained or when sand or dust are being deposited on the surface being paved to the extent that the bond between layers will be diminished.~~
- ~~3. Transportation of asphalt mixtures from the plant to the site shall cease immediately at the first indication of rain on the project roadway. Asphalt mixtures shall not be placed while rain is falling or when there is water on the surface to be covered. As an exception, the Contractor may place mixture caught in transit, at the Contractor's risk, if the only option is to waste this mixture. In such case, the surface shall be tacked as required prior to the rain and the surface shall be broomed in front of the spreading operation. The County Engineer, or his/her representative, will evaluate such placed mixture separately, and if the mixture is unsatisfactory in any way, the contractor shall remove and replace it with satisfactory mixture.~~
- ~~4. The mixture shall be delivered on the road in ample time to permit the spreading, rolling and surface testing during daylight hours. The temperature of the mixture at the time of spreading shall be within 25° (above or below) of the design mix temperature. Any load or portion of a load of asphalt mix with a mix temperature exceeding 335°F either at the plant or on the road shall be rejected.~~
- ~~5. Material shall be delivered to the job site with sufficient frequency that the paving operation can continue without interruption.~~
- ~~6. Depressions which may develop after the initial rolling shall be remedied by removing the mixture laid, and adding new material to bring such depressions to a true surface. Such portions of the completed course that are defective in surface planeness, compaction or composition, or that do not comply with the requirements of these specifications, shall be removed and replaced with suitable mixture properly laid in accordance with these specifications.~~
- ~~7. Vertical construction joints shall be constructed prior to the commencement of the ongoing paving operation. All cold joints will be prepared according to the FDOT Standard Specifications, latest edition. The vertical surface of all existing asphaltic concrete mixes at cold joints shall be mopped with an approved liquid bitumen material so as to provide a water tight joint at the interface of the two mixes.~~
- ~~8. Night work shall only be permitted as directed by the County Engineer.~~

~~H. Marshall Mix Acceptance Tests (Rev. 10/07/09 Ord. 09 061; 4/4/02 Ord. 02 17)~~

- ~~1. The contractor shall notify the County Engineer, in writing, and shall submit for approval of the asphalt mix design, at least 5 business days prior to the start of paving. The asphalt mix design shall be prepared by a certified material testing laboratory or a certified~~

~~Construction Training Qualification Program (CTQP) Asphalt Mix Designer. The asphalt mix design must be signed and sealed by a Professional Engineer for Marshall mixes. Superpave mix designs shall be FDOT approved. Any asphalt mix design formulas used must have been verified by a certified material testing laboratory within the past 24 months.~~

- ~~2. During construction of the asphaltic concrete structural or surface course, the following tests must be completed and reports submitted within three working days to the County Engineer before acceptance can be given:~~
  - ~~a. The asphalt mixture shall be sampled and tested at the plant to determine Marshall stability and flow. In addition, the test shall include an extraction to determine the liquid asphalt content and gradation. Testing shall be performed at a frequency of one test per 500 tons or a minimum of one per day. Liquid asphalt content, and Marshall stability and flow shall conform to intent of job mix formula, as approved by the County Engineer.~~
  - ~~b. Tests for in place density and layer thickness, for each course, shall be conducted at a frequency of one test per 300 linear feet of roadway (minimum 3 tests per road). The minimum acceptable density for each course of asphaltic concrete material shall be 93 percent of the laboratory density of the approved asphalt mix design.~~
  - ~~c. If the County Engineer believes that the number of cores taken is insufficient to properly indicate the thickness of the pavement, he or she may request additional cores. All additional costs shall be borne by the contractor.~~
    - ~~i. When the deficiency in thickness is in excess of the minimum thickness required on approved plans, less the allowable construction tolerance, the contractor shall correct the deficiency either by replacing the full thickness for a length extending at least 50 feet from each end of the deficient area, or when permitted by the County Engineer by overlaying the entire width of the road. Normally an overlay will not be permitted in a concrete curb section.~~
    - ~~ii. All tests and job mix formulas, aggregate verification and temperature control verification shall be made by an independent testing engineer as approved by the County Engineer and all reports shall be signed and sealed by a registered professional engineer for the State of Florida.~~
    - ~~iii. When there is a deficiency in test results for stability/flow, gradation or roadway core density, the County Engineer may require up to a five year extended warranty for acceptance.~~
  - ~~d. The following items may be required by the County Engineer:~~
    - ~~i. Plant inspection and calibration check;~~
    - ~~ii. Test of asphalt cement; and,~~
    - ~~iii. Full time construction monitoring.~~
  - ~~e. The County Engineer, upon written request of the engineer of record, may modify the testing requirements on projects of 500 feet or less.~~

**SECTION 9:** Section A406 Inspection, Testing and Certification Requirements, Polk County Ordinance No. 00-09, as amended, is hereby amended in the following manner:

## **Section A406 Inspection, Testing and Certification Requirements (Rev. 10/07/09 - Ord. 09- 061)**

### **A. Pre-Construction Meeting (Rev. 10/07/09 - Ord. 09-061)**

Once the Construction Plans have been approved, the Land Development Division shall be notified in writing at least five days in advance of the start of construction to schedule a Pre-Construction meeting. The Pre-Construction meeting shall include the assigned Polk County Inspectors, the Contractor, the Engineer of Record (or his/her representative), and any utility providers to discuss construction issues and project schedules.

### **B. Inspection and Testing (Rev. 10/07/09 - Ord. 09-061)**

The Inspector shall inspect and monitor the construction to ensure compliance with the approved plans and National Pollution Discharge Elimination System (NPDES) requirements. The Inspector shall be notified at least 24 hours before clearing and grubbing, installation of silt fence, and any testing of materials. In the event the Inspector cannot be on site due to scheduling conflicts, a field copy of the test shall be provided to the Inspector by email, facsimile, or mail. After the project has been completed the Inspector shall be notified and a Pre-Final inspection shall be scheduled. The Inspector shall provide a punch list of items that need to be addressed or are outstanding including the following items.

### **C. Certification (Rev. 10/07/09 - Ord. 09-061)**

1. A Professional Engineer shall provide the County Engineer with two sets of ~~As-Built~~/record drawings. The record drawings may include an as-built survey drawing prepared by a Surveyor and Mapper licensed in the state of Florida depicting the constructed pavement and stormwater system improvements. The as-built drawings shall show the drainage system with inverts, tops, and all elevations relevant to the design of the stormwater system. It shall also include pond bottom and top elevations and all control elevations of any outfall structures. Spot elevations of the pavement shall be provided to determine flow directions. These drawings shall be signed and sealed by the Professional Surveyor and Mapper if provided separately from the record drawings. and the Professional Engineer shall submit the appropriate form provided by the Land Development Division.

The record drawings shall show or include all information in the as-built drawings in addition to showing important proposed elevations with strike-through and the final elevations beside. Final record drawings combine all previous partial clearances, surveyor as-builts, surveyed coordinates with asset table, and all utilities work into one complete set. Record drawings shall also indicate stormwater and utility pipe types, slopes, and other design information as a final constructed drawing. The Professional Engineer shall sign and seal the Engineer's prepared record drawings and submit the appropriate form provided by the Land Development Division.

2. A Professional Engineer shall provide a signed and sealed report certifying to the pavement section and the thicknesses of the layers included therein. In addition to this report, the Professional Engineer shall provide copies of material testing and a written record of any approved changes in material or composition of the pavement section differing from the approved plans.

3. Upon completion of the project and receipt of the preceding items, the Inspector will release the project, and any Certificate of Occupancy hold that the Land Development Division may have.

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#### **SECTION 10: SEVERABILITY**

If any provision of this Ordinance is held to be illegal, invalid, or unconstitutional by a court of competent jurisdiction the other provisions shall remain in full force and effect.

#### **SECTION 11: EFFECTIVE DATE**

This ordinance shall become effective upon filing with the Department of State.

**ENACTED BY THE BOARD OF COUNTY COMMISSIONERS OF POLK COUNTY,**

**FLORIDA** this \_\_\_\_\_ day of \_\_\_\_\_, 2025.