



ST. LUCIE COUNTY STANDARD DETAILS FOR LAND DEVELOPMENT

Revised: DECEMBER 14, 2021

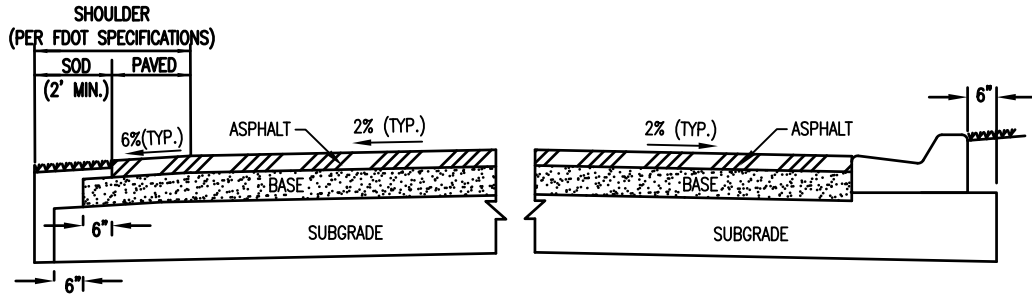
PUBLIC WORKS DEPARTMENT
BOARD OF COUNTY COMMISSIONERS

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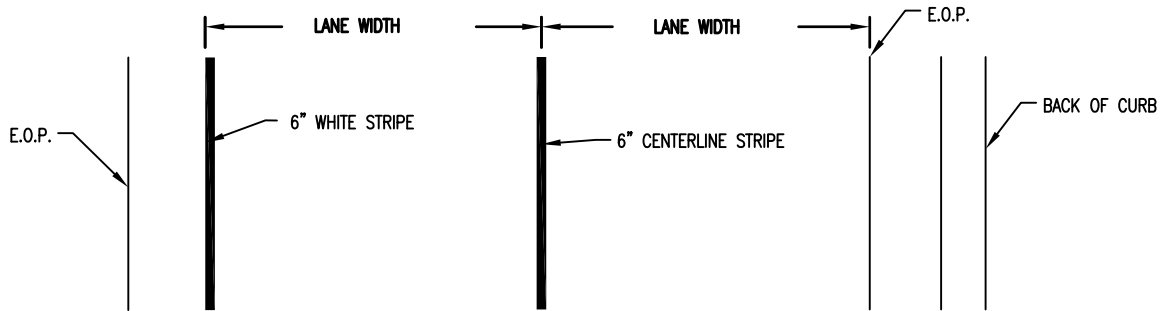
DETAIL NUMBER	DESCRIPTION
LD-1	FLEXIBLE PAVEMENT SECTIONS
LD-2	TYPICAL OPEN CUT TRENCH & RESTORATION
LD-3	PAVEMENT WIDENING/CONNECTION
LD-4	CUL-DE-SAC
LD-5	T-TURNAROUND
LD-6	SIDEWALK
LD-7	ONSITE LAKE OUTFALL
LD-8	NON RESIDENTIAL DRIVEWAY CONNECTION
LD-9	HEADER CURB
LD-10	RESIDENTIAL DRIVEWAY DEPTH

THE ST. LUCIE COUNTY STANDARD DETAILS FOR LAND DEVELOPMENT ARE ESTABLISHED TO PROVIDE SUPPORT FOR VARIOUS PERMITTING AND DEVELOPMENT PROCESSES AND CONSTRUCTION IN A CONSISTENT MANNER THROUGHOUT THE UNINCORPORATED COUNTY. THESE STANDARDS ARE TO BE USED AS GUIDANCE FOR NEW CONSTRUCTION AND MAINTENANCE BY ALL PARTIES WORKING WITHIN THE JURISDICTION OF THE COUNTY. IT IS THE RESPONSIBILITY OF THE ENGINEER OF RECORD USING THESE DETAILS TO DETERMINE THE APPROPRIATENESS AND MODIFY FOR MORE STRINGENT REQUIREMENTS AS MAY BE NECESSARY. MODIFICATIONS TO ANY OF THESE DETAILS SHALL BE SPECIFICALLY IDENTIFIED WITHIN THE PLANS SPECIFIC TO THE PROJECT. THESE STANDARD DETAILS MAY BE PERIODICALLY MODIFIED AS DETERMINED BY THE COUNTY ENGINEER. THE EFFECTIVE DATE OF THESE DETAILS AND REVISIONS IS THE SIGNATURE DATE BELOW.

APPROVED BY: _____
DAN J. ZRALLACK, P.E. DATE
COUNTY ENGINEER



TYPICAL CROSS SECTION



TYPICAL ROAD STRIPING

ROAD CLASSIFICATION	MINIMUM ASPHALT THICKNESS (INCHES)	BASE (INCHES)	SUBGRADE (INCHES)	MIN. LANE WIDTH (FT)
LOCAL-PRIVATE	1.5	6	8	10
LOCAL-PUBLIC	2	8	12	11
COLLECTOR	2.5	10	12	12
ARTERIAL	3	10	12	12

*NOTES:

1. ALL ASPHALT MIXES TO MEET FDOT STANDARD SPECIFICATIONS SECTION 334 (LATEST EDITION).
2. PUBLICLY OWNED AND MAINTAINED ROADWAYS SHALL MEET FDOT SPECIFICATIONS FOR MATERIAL AND COMPACTION.
3. PAVEMENT DESIGN AND INSTALLATION PER FDOT FLEXIBLE PAVEMENT DESIGN MANUAL (LATEST EDITION).
4. ROADWAYS SHALL HAVE A STABILIZED HOMOGENOUS MIXED SUBGRADE WITH MINIMUM LBR 40, COMPACTED TO 98% MAX DRY DENSITY PER AASHTO T-180.
5. ROADWAYS SHALL HAVE A BASE CONSISTING OF COQUINA SHELL OR LIMEROCK WITH A MINIMUM LBR 100, COMPACTED TO 98% DRY DENSITY PER AASHTO T-180.
6. OFF STREET PARKING USING FLEXIBLE PAVEMENT DESIGN: MINIMUM CROSS SECTION SAME AS PRIVATE LOCAL ROADWAY.
7. OFF STREET PARKING UTILIZING A RIGID PAVEMENT DESIGN SHALL HAVE A MINIMUM OF 6 INCHES OF 3,000 PSI CONCRETE AND A MINIMUM OF 12 INCHES OF COMPACTED SUBGRADE MATERIAL.



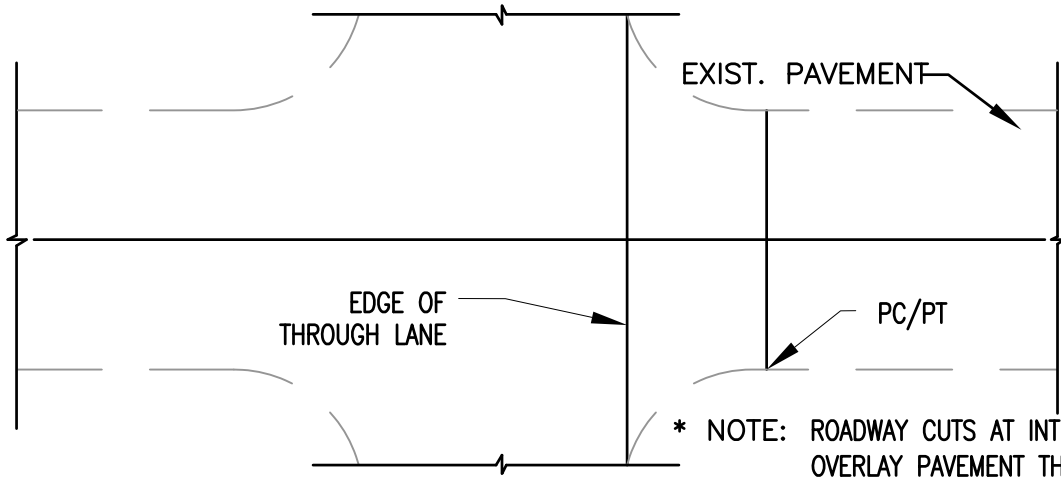
LAND DEVELOPMENT DETAILS

FLEXIBLE PAVEMENT SECTIONS

DETAIL

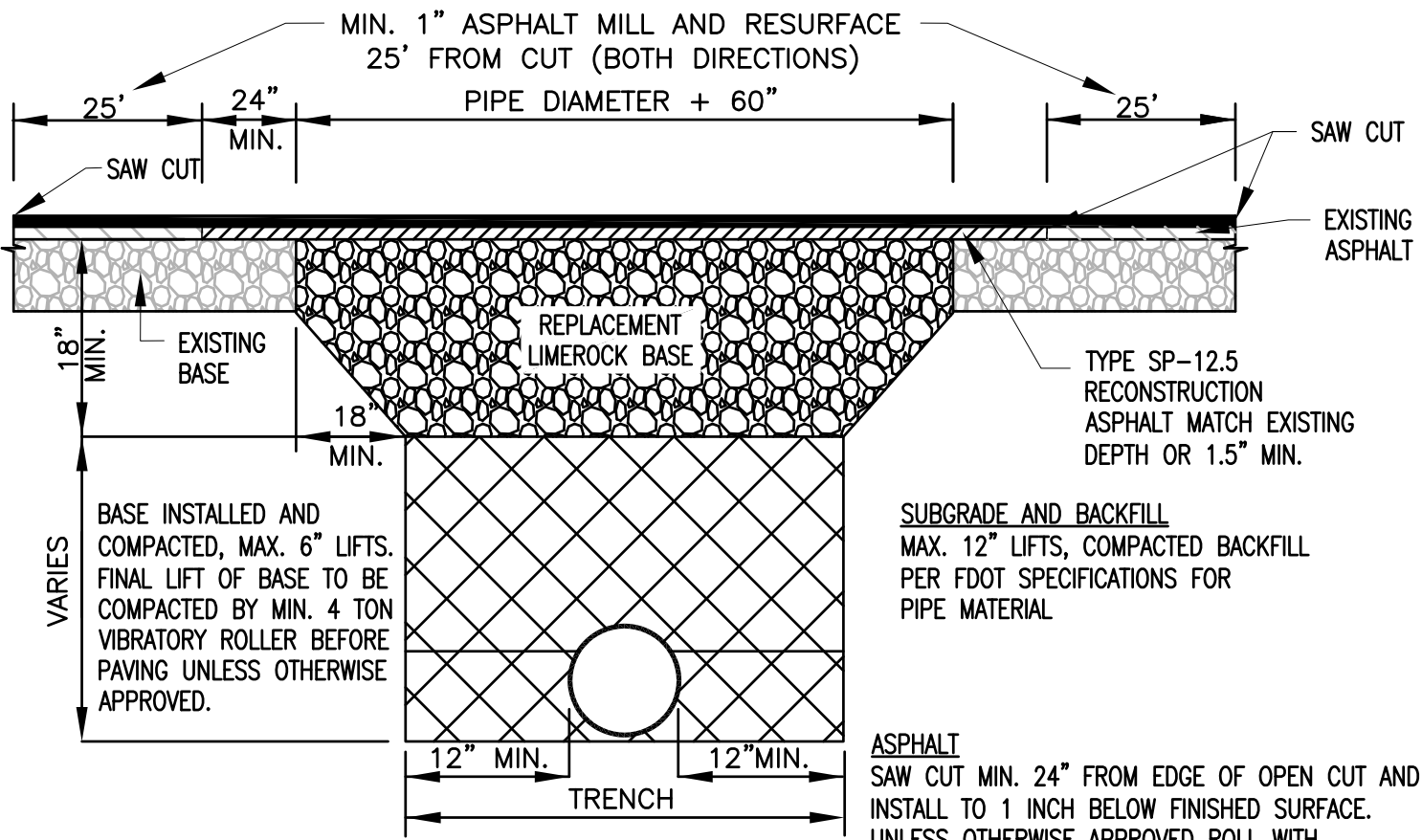
LD-1

DATE: 12/14/21



* NOTE: ROADWAY CUTS AT INTERSECTION WILL INCLUDE OVERLAY PAVEMENT THROUGHOUT TURNOUT (PC/PT).

PLAN



SECTION

SUBGRADE AND BACKFILL
 MAX. 12" LIFTS, COMPACTED BACKFILL PER FDOT SPECIFICATIONS FOR PIPE MATERIAL

ASPHALT
 SAW CUT MIN. 24" FROM EDGE OF OPEN CUT AND INSTALL TO 1 INCH BELOW FINISHED SURFACE. UNLESS OTHERWISE APPROVED ROLL WITH VIBRATORY ROLLER (4 TON MIN.) WITH A MINIMUM OF 6 PASSES. SAW CUT, MILL AND RESURFACE TO EXTENT AS SHOWN.

*EXISTING CONDITIONS MAY REQUIRE ADDITIONAL WORK BEYOND THE LIMITS SHOWN IN THIS DETAIL.



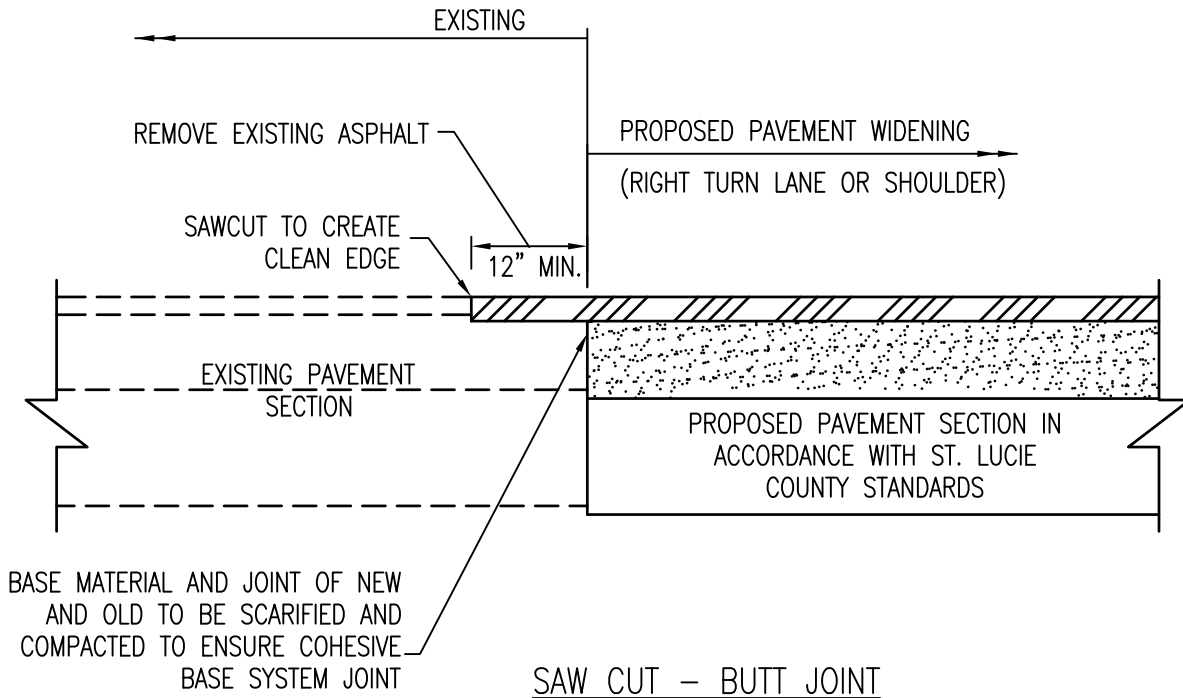
LAND DEVELOPMENT DETAILS

TYPICAL OPEN CUT TRENCH & RESTORATION

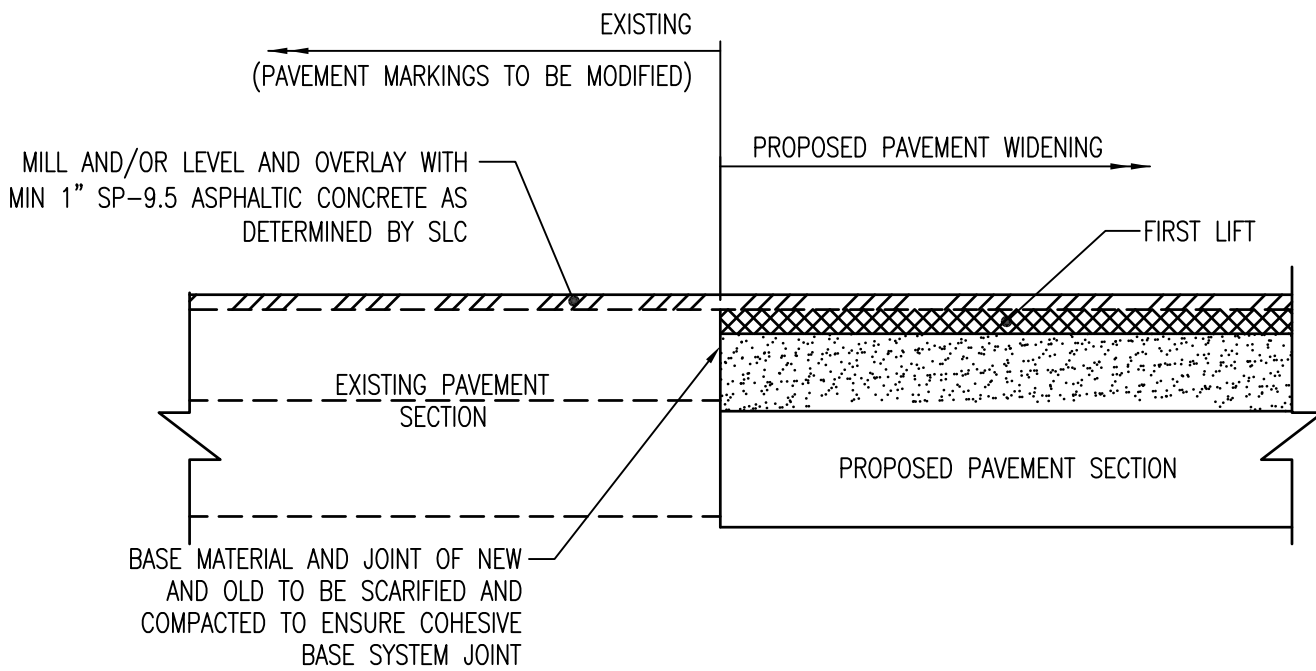
DETAIL

LD-2

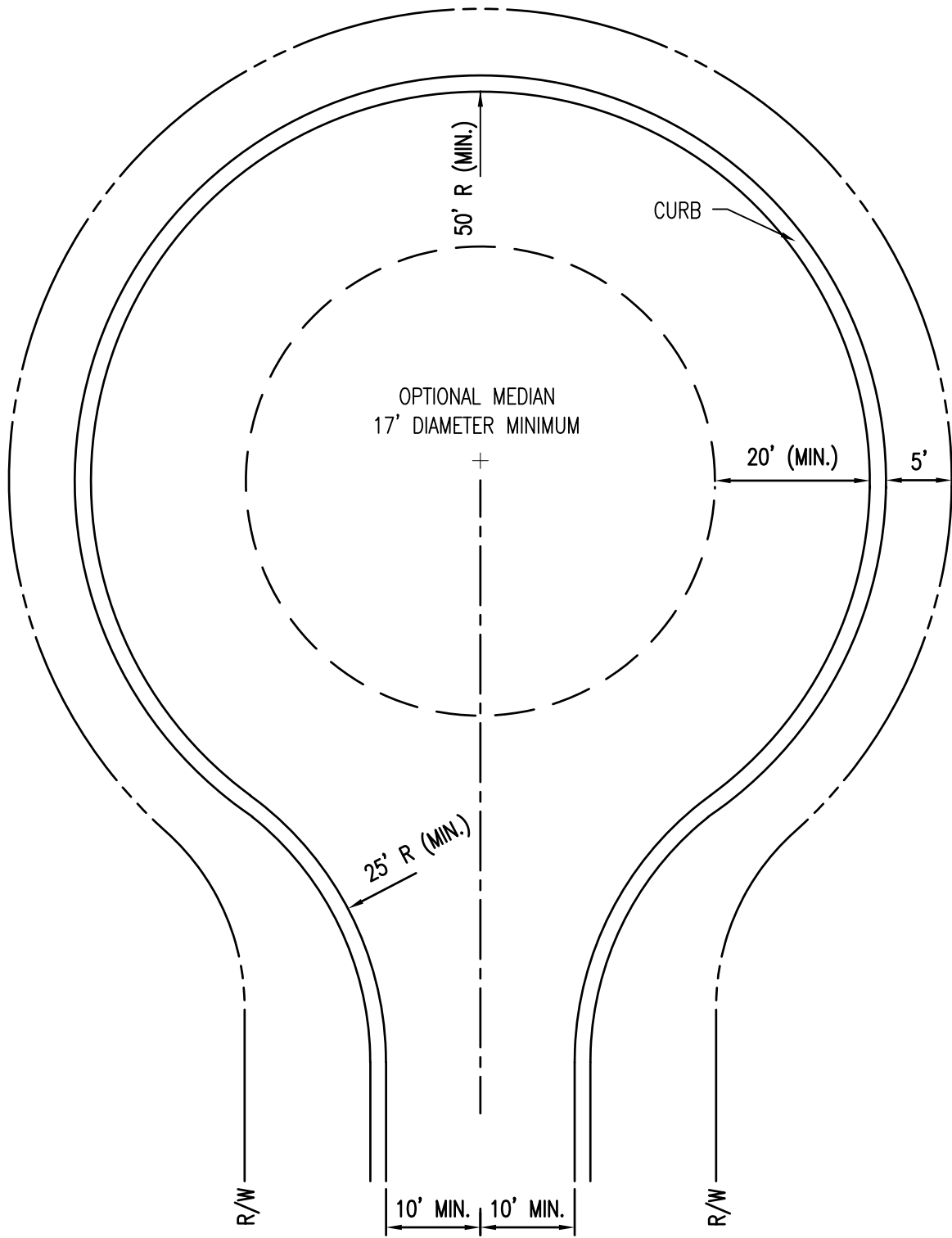
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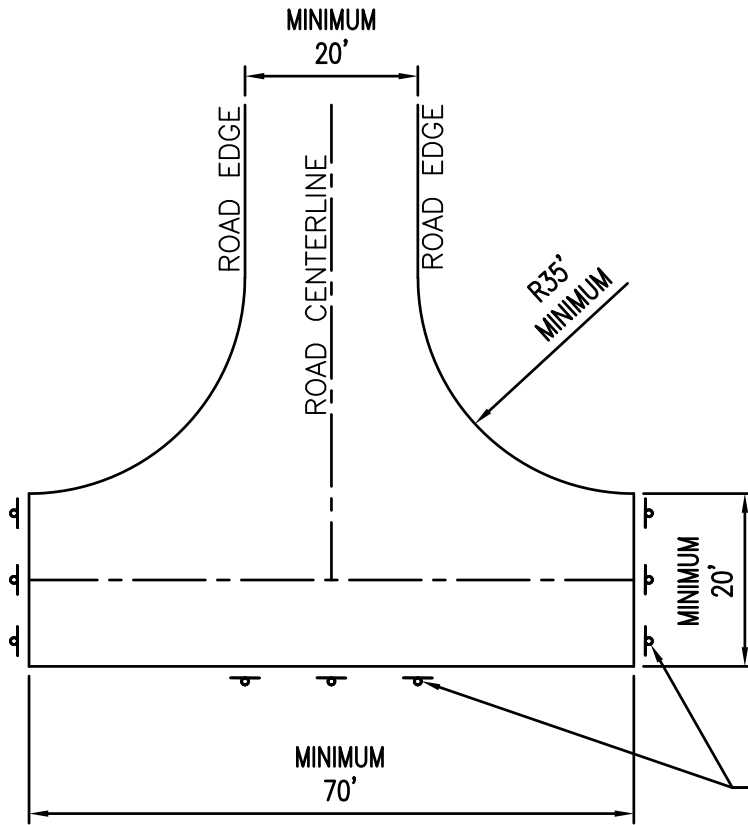


TYPICAL FOR WORK NOT IMPACTING TRAVELWAY

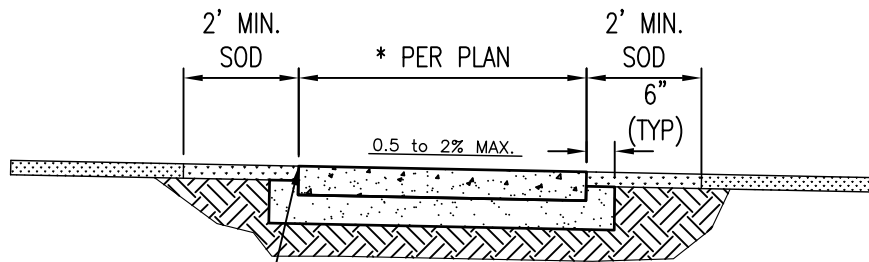


TYPICAL FOR WORK IMPACTING TRAVELWAY





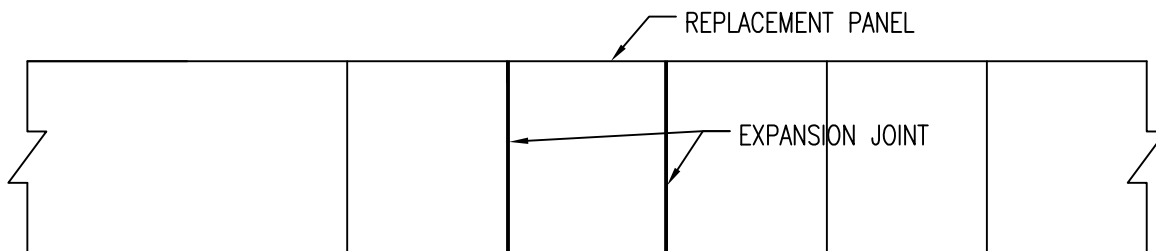
CASE II RED REFLECTORS PER
 FDOT DESIGN STANDARD INDEX
 17349 (6' O.C. TYP.)



TOP OF SOD TO BE LAID
FLUSH WITH SIDEWALK
WITH 10h:1v OR FLATTER
SLOPE FOR FIRST FOOT (TYP)

* 6' MINIMUM FOR SIDEWALKS ON COLLECTOR AND ARTERIAL
ROADWAYS.
5' MINIMUM FOR SIDEWALKS ON LOCAL ROADWAYS.

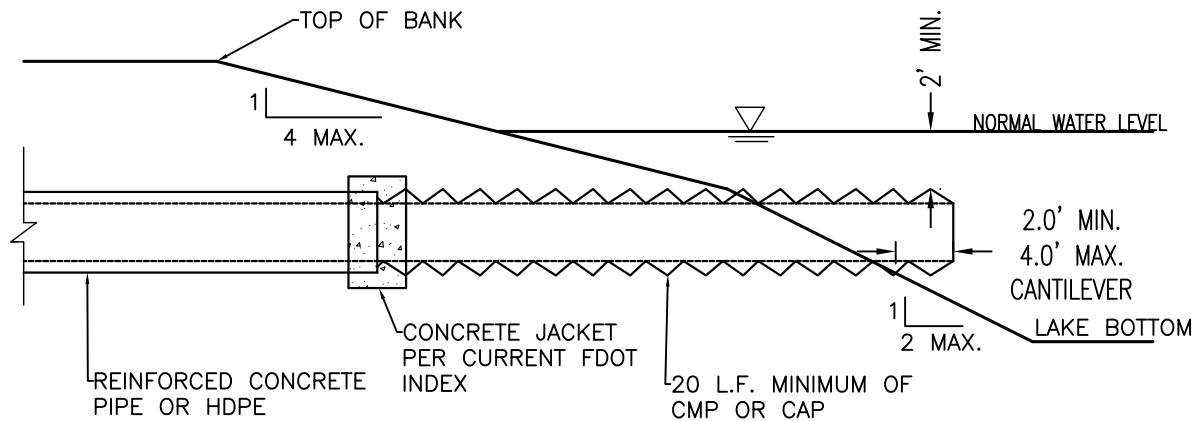
TYPICAL SIDEWALK
N.T.S.



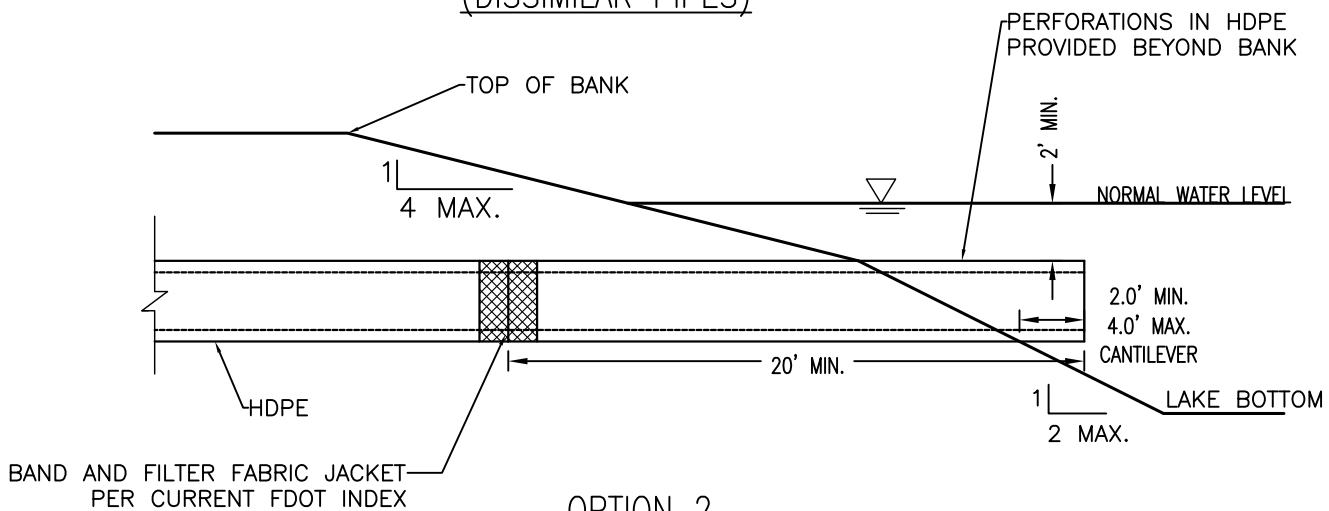
REPAIR OR REPLACEMENT
N.T.S.

NOTES:
ALL MATERIALS AND CONSTRUCTION PROCEDURES SHALL BE IN ACCORDANCE WITH THE LATEST FDOT INDICES AND AS FOLLOWS:

1. CONCRETE TO BE MINIMUM 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
2. TEST A MINIMUM OF THREE (3) COMPRESSIVE STRENGTH CYLINDERS PER 50 CY OR PER LOT, WHICHEVER IS GREATER. COMPRESSIVE STRENGTH SHALL BE REPORTED AT 28 DAYS.
3. ONLY FIBER REINFORCEMENT TO BE USED IN COUNTY RIGHT OF WAY AT A MINIMUM OF 1.5 LB/CY. STEEL REINFORCEMENT NOT ALLOWED.
4. ALL DELETERIOUS MATERIALS TO BE REMOVED 6 INCHES BELOW BOTTOM OF SIDEWALK AND 6 INCHES BEYOND ALL EDGES.
5. CONCRETE SHALL BE A MINIMUM OF 4 INCHES THICK FOR ALL SIDEWALKS.
6. SIDEWALKS THROUGH DRIVEWAYS SHALL BE 6" THICK MINIMUM.
7. SOD TO BE LAID WITHIN THREE (3) DAYS OF FINAL GRADING IN PUBLIC RIGHT OF WAY.
8. ENTIRE SIDEWALK SLAB BETWEEN CONTRACTION/EXPANSIONS JOINTS SHALL BE RECONSTRUCTED WHEN RESTORING EXISTING SIDEWALKS.
9. PRE-POUR INSPECTIONS ARE REQUIRED AND MUST BE ACCEPTED PRIOR TO POURING THE SIDEWALK.
10. FOR REPAIRS, REMOVE EXISTING SIDEWALK TO THE FULL WIDTH FROM CONTROL JOINT TO CONTROL JOINT (I.E. ONE "SECTION")



OPTION 1
(DISSIMILAR PIPES)

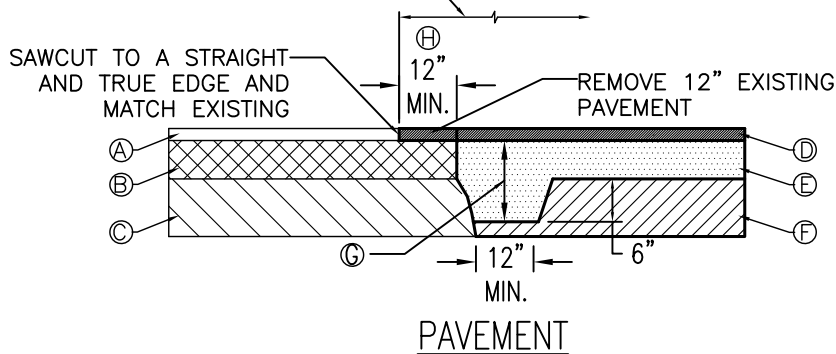


OPTION 2
(HDPE)

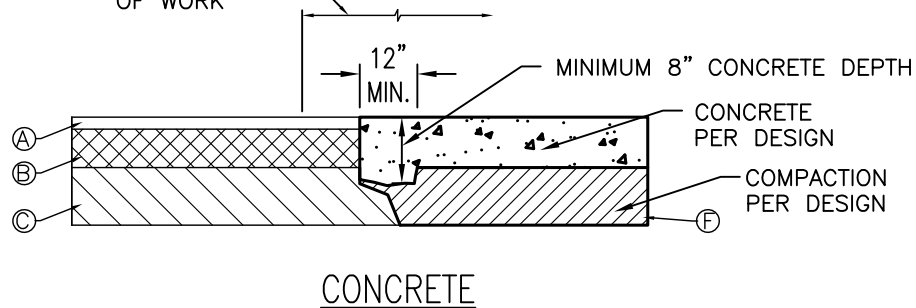
NOTES:

1. CONCRETE PIPE EXTENSIONS INTO OR THRU LAKE BANKS REQUIRE THE USE OF AN END STRUCTURE MEETING F.D.O.T. REQUIREMENTS.
2. PIPE OUTFALLS WHERE THE TOP OF PIPE IS LESS THAN 2 FEET BELOW THE NORMAL WATER LEVEL REQUIRE THE USE OF AN END STRUCTURE MEETING F.D.O.T. REQUIREMENTS.

UNIFORM CROSS SLOPE AND PARALLEL GRADES TO MATCH EXISTING ELEVATIONS AT LIMITS OF WORK

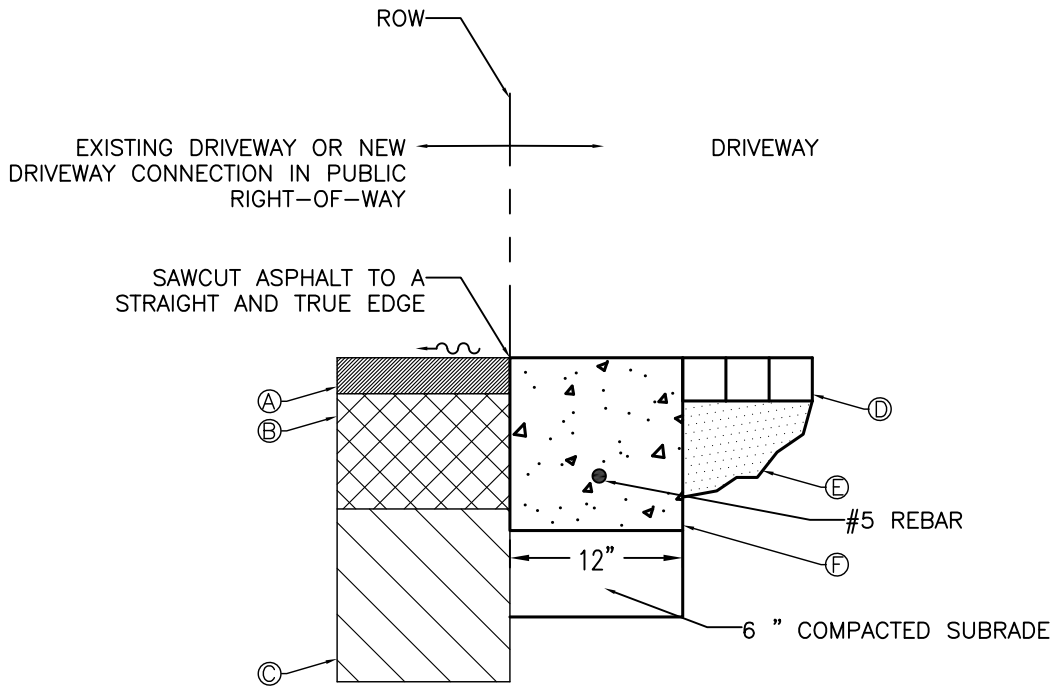


UNIFORM CROSS SLOPE AND PARALLEL GRADES TO MATCH EXISTING ELEVATIONS AT LIMITS OF WORK



NOTES:

- Ⓐ EXISTING ASPHALT
- Ⓑ EXISTING BASE
- Ⓒ EXISTING SUBGRADE
- Ⓓ PROPOSED ASPHALT PER PLANS.
- Ⓔ PROPOSED BASE PER PLANS.
- Ⓕ PROPOSED SUBGRADE/SUBBASE PER PLANS.
- Ⓖ BASE BUTT JOINT TO BE COMPACTED TO 98% MAXIMUM DENSITY PER A.A.S.H.T.O. T-180 WITH A MINIMUM DEPTH OF 12".
- Ⓗ 12" PAVEMENT EXTENSION NOT TO EXTEND INTO TRAVEL WAY.

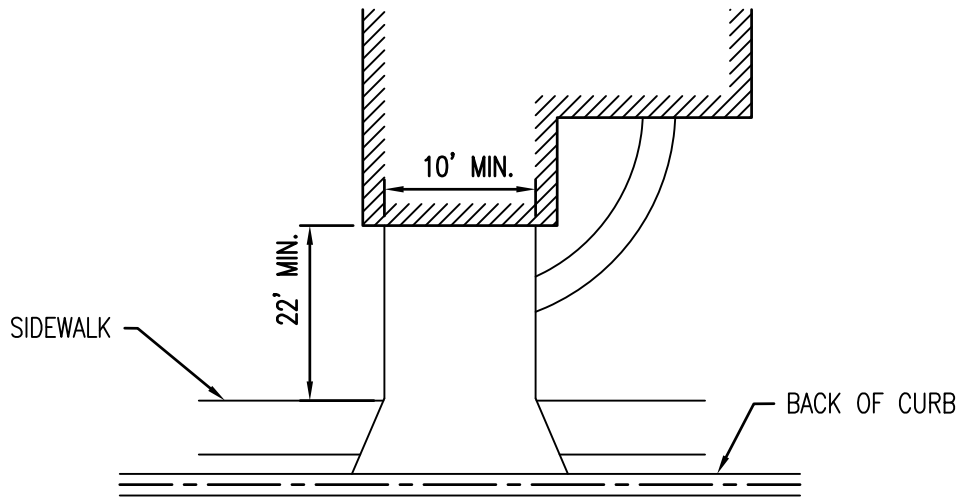


BRICK PAVER
DRIVEWAYS

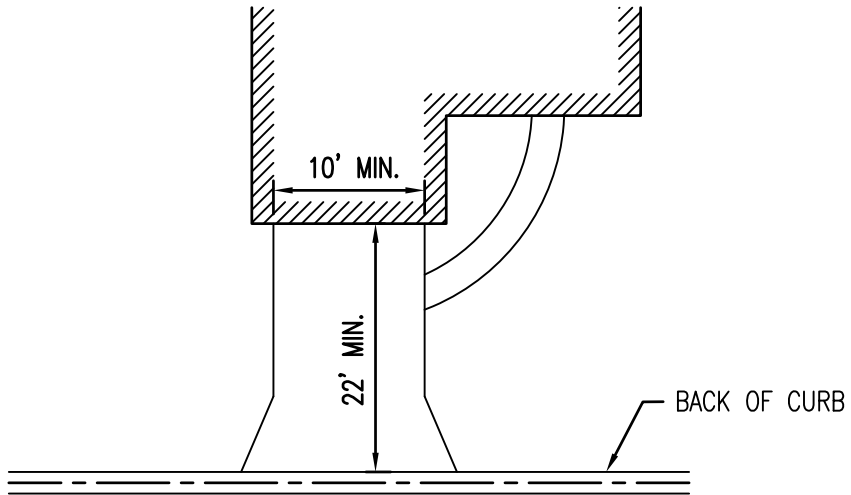
NOTES:

1. HEADER CURB TO BE USED FOR SEPARATION BETWEEN BRICK PAVER DRIVEWAYS AND COUNTY PAVED ROADWAYS.
2. ADDITIONAL PAVER DRIVEWAY DESIGN DETAILS AND SPECIFICATIONS BY OWNER.
3. BRICK PAVERS ARE NOT ALLOWED WITHIN COUNTY ROW OR PUBLIC CROSSWALKS.

- (A) ASPHALT
- (B) BASE
- (C) SUBGRADE
- (D) PROPOSED PRIVATE BRICK PAVER SURFACE
- (E) BASE AS DESIGNED BY OWNER
- (F) HEADER CURB MINIMUM, 12" DEPTH, 12" WIDTH, 4000 PSI CONCRETE, 1 - #5 REBAR (MIN. 32" LAP AT SPLICE)



DEVELOPMENTS WITH SIDEWALK



DEVELOPMENTS WITHOUT SIDEWALK

NOTES:

1. DRIVEWAYS SHALL BE A MINIMUM LENGTH OF 22 FEET FROM FACE OF GARAGE/BUILDING TO BACK OF CURB OR SIDEWALKS WHEN PRESENT.
2. RESIDENTIAL DRIVEWAYS SHALL HAVE A MINIMUM WIDTH OF 10 FEET.