NOTES:

1. DEVELOPER MAY SUBMIT AN ALTERNATIVE PAVEMENT DESIGN TO TOWN ENGINEER.

2. AN ALTERNATIVE PAVEMENT DESIGN MAY BE REQUIRED BY NCDOT BASED ON SPECIFIC TRAFFIC PARAMETERS.

3. SIDEWALK EASEMENT MAY BE REQUIRED.

4. IRRIGATION SYSTEMS ARE NOT ALLOWED IN THE STREET RIGHTS-OF-WAY UNLESS AN ENCROACHMENT AGREEMENT HAS BEEN ISSUED BY THE TOWN OF PINEVILLE.

5. TREES PROPOSED IN THE PLANTING STRIPS OR RIGHTS-OF-WAY SHALL BE APPROVED BY THE TOWN OF PINEVILLE PRIOR TO INSTALLATION.

6. ALL PROPOSED ROADWAYS IN COMMERCIAL AND INDUSTRIAL DEVELOPMENTS SHALL BE CONSIDERED COMMERCIAL COLLECTOR STREETS.

7. REFER TO PLGS SPECIFICATIONS AND SPECIAL PROVISION NOTES FOR COMPACTION TESTING REQUIREMENTS.

TYPICAL PAVEMENT SECTION

TOWN OF PINEVILLE
LAND DEVELOPMENT STANDARDS

MAJOR COLLECTOR STREET

NOT TO SCALE

2/29/20

10.01 4
TOWN OF PINEVILLE
LAND DEVELOPMENT
STANDARDS

MINOR COLLECTOR STREET

NOT TO SCALE

2/29/20

STN NO. REV
10.02 4

2:1 CUT MAX.
3:1 FILL MAX.

1'-0" (MIN)

6'-0" (MIN)

1/4 FT.

2:1 CUT MAX.
3:1 FILL MAX.

4" ASPHALT CONCRETE BASE COURSE,
TYPE B25.0B OR 6" CABC COMPACTED TO
100% COMPACT TOP 6" SUBGRADE TO
100% ASPHALT BASE TO EXTEND 12" IN
FRONT AND BACK OF CURB & GUTTER
SECTION.

NOTES:

1. DEVELOPER MAY SUBMIT AN ALTERNATIVE
   PAVEMENT DESIGN TO TOWN ENGINEER.

2. AN ALTERNATIVE PAVEMENT DESIGN MAY BE REQUIRED BY NCDOT
   BASED ON SPECIFIC TRAFFIC PARAMETERS.

3. SIDEWALK EASEMENT MAY BE REQUIRED.

4. IRRIGATION SYSTEMS ARE NOT ALLOWED IN THE STREET
   RIGHTS-OF-WAY UNLESS AN ENCROACHMENT AGREEMENT HAS
   BEEN ISSUED BY THE TOWN OF PINEVILLE.

5. TREES PROPOSED IN THE PLANTING STRIPS OR RIGHTS-OF-WAY
   SHALL BE APPROVED BY THE TOWN OF PINEVILLE PRIOR TO
   INSTALLATION.

6. ALL PROPOSED ROADWAYS IN COMMERCIAL AND INDUSTRIAL
   DEVELOPMENTS SHALL BE CONSIDERED COMMERCIAL COLLECTOR
   STREETS.

7. REFER TO PLANS SPECIFICATIONS AND SPECIAL PROVISION NOTES
   FOR COMPACTION TESTING REQUIREMENTS.
**NOTES:**

1. DEVELOPER MAY SUBMIT AN ALTERNATIVE PAVEMENT DESIGN TO TOWN ENGINEER.

2. AN ALTERNATIVE PAVEMENT DESIGN MAY BE REQUIRED BY NCDOT BASED ON SPECIFIC TRAFFIC PARAMETERS.

3. SIDEWALK EASEMENT MAY BE REQUIRED.

4. REFER TO PLDS SPECIFICATIONS AND SPECIAL PROVISION NOTES FOR COMPACTION TESTING REQUIREMENTS.

**TYPICAL PAVEMENT SECTION**

- **SURFACE COURSE**
  - 1 1/2" S9.5C - FINAL LIFT
  - 1 1/2" S9.5C - INITIAL LIFT

- **INTERMEDIATE COURSE**
  - 4" T19.0C

- **BASE COURSE**
  - 12" ABC OR 5.5" ACBC TYPE B25.0C

- **SUBGRADE**
  - SEE PLDS SPECIFICATIONS AND SPECIAL PROVISION NOTE 1.F.1 FOR BASE REQUIREMENTS.

**KEY**

- 2"-6" CURB AND GUTTER
- S 4" CONCRETE SIDEWALK, 6" AT ALL DRIVEWAYS.
  - INSTALL DRIVEWAY APRONS W/ GEORGRID 1100 TENSILE (MIN) & COMPACT SUBGRADE TO 100% STANDARD PROCTOR.
  - SEE PLDS SPECIFICATIONS AND SPECIAL PROVISIONS NOTE 1.F.1 FOR BASE REQUIREMENTS.

**TOWN OF PINEVILLE**

**LAND DEVELOPMENT STANDARDS**

**INDUSTRIAL STREET**

**NOT TO SCALE**

**REV. DATE**

2/29/20

**SID. NO.**

10.03

**REV.**

4
TYPICAL SECTION

70' R/W (MIN/UM)
35' (MIN)
35' (MIN)
SLOPE 3/8" PER FT.
1" PER FT.

TYPICAL PAVEMENT SECTION

TOWN OF PINEVILLE
LAND DEVELOPMENT
STANDARDS

INDUSTRIAL STREET
(DITCH TYPE)

KEY

4" CONCRETE SIDEWALK, 6" AT ALL DRIVeways.
INSTALL DRIVEWAY APRONS W/ GEOGRID 1100 TENSILE (MIN) &
COMPACT SUBGRADE TO 100% STANDARD PROCTOR.
SEE PLDS SPECIFICATIONS AND SPECIAL PROVISIONS NOTE 1.6.19
FOR BASE REQUIREMENTS.

NOTES:

1. DEVELOPER MAY SUBMIT AN ALTERNATIVE
PAVEMENT DESIGN TO TOWN ENGINEER.

2. AN ALTERNATIVE PAVEMENT DESIGN MAY BE
REQUIRED BY NCDOT BASED ON SPECIFIC TRAFFIC
PARAMETERS.

3. SIDEWALK EASEMENT MAY BE REQUIRED.

4. REFER TO PLDS SPECIFICATIONS AND SPECIAL
PROVISION NOTES FOR COMPACTION TESTING
REQUIREMENTS.

NOT TO SCALE

2/29/20
10.04 4
TYPICAL SECTION

TACK COAT TO BE APPLIED BETWEEN ASPHALT LIFTS IN ACCORDANCE W/ CURRENT NCDOT SPECIFICATIONS

SUBSURFACE COURSE
1 1/2" S9.5G - FINAL LIFT
1 1/2" S9.5G - INITIAL LIFT

INTERMEDIATE COURSE
4" 119.0G

BASE COURSE
12" ABC OR 5.5" ACBC TYPE B25.0G

SUBGRADE
SEE PLOD SPECIFICATIONS AND SPECIAL PROVISION NOTE 1A.19 FOR SUBGRADE COMPACTION REQUIREMENTS.

KEY
R 2'-6" CURB AND GUTTER
S 4" CONCRETE SIDEWALK, 8" AT ALL DRIVEWAYS.
INSTALLED DRIVEWAY APRONS W/GEOCOORT 110G TENSILE (MIN) & COMPACT SUBGRADE TO 100% STANDARD PROCTOR.
SEE PLOD SPECIFICATIONS AND SPECIAL PROVISIONS NOTE 1F.1 FOR BASE REQUIREMENTS.

NOTES:
1. DEVELOPER MAY SUBMIT AN ALTERNATIVE PAVEMENT DESIGN TO TOWN ENGINEER.
2. AN ALTERNATIVE PAVEMENT DESIGN MAY BE REQUIRED BY NCDOT BASED ON SPECIFIC TRAFFIC PARAMETERS.
3. SIDEWALK EASEMENT MAY BE REQUIRED.
4. REFER TO PLOD SPECIFICATIONS AND SPECIAL PROVISION NOTES FOR COMPACTING TESTING REQUIREMENTS.

TOWN OF PINEVILLE
LAND DEVELOPMENT STANDARDS

INDUSTRIAL LOCAL STREET
NO PARKING

NOT TO SCALE

REV. DATE
2/29/20

SID. NO. REV.
10.04A 4
TYPICAL PAVEMENT SECTION

TYPICAL SECTION

TOWN OF PINEVILLE
LAND DEVELOPMENT
STANDARDS

INDUSTRIAL LOCAL STREET
PARKING ON ONE SIDE OF STREET

NOT TO SCALE

2/29/20

10.04B 4
TOWN OF PINEVILLE
LAND DEVELOPMENT
STANDARDS

INDUSTRIAL LOCAL STREET
PARKING ON BOTH SIDES OF THE STREET

NOT TO SCALE
REV. DATE
2/29/20
STD. NO. REV.
10.04C 4

TYPICAL SECTION

4" ASPHALT CONCRETE BASE COURSE,
TYPE B25.08 OR 6" CASE COMPACTED TO
100% COMPACT TSP 6" SUBGRADE TO
100% ASPHALT BASE TO EXTEND 12" IN
FRONT AND BACK OF CURB & GUTTER
SECTION

KEY
① 2'-6" CURB AND GUTTER
② 4" CONCRETE SIDEWALK, 6" AT ALL DRIVEWAYS.
INSTALL DRIVEWAY APRONS W/ GEOGRID 1100 TENSILE (MIN) &
COMPACT SUBGRADE TO 100% STANDARD PROCTOR.
SEE PLDS SPECIFICATIONS AND SPECIAL PROVISIONS NOTE I.F.1
FOR BASE REQUIREMENTS.

NOTES:
1. SIDEWALK SHALL BE PROVIDED ON BOTH SIDES
   OF THE STREET.
2. TREE TO BE PLANTED FOUR FEET FROM
   SIDEWALK.
3. REFER TO PLDS SPECIFICATIONS AND SPECIAL
   PROVISION NOTES FOR COMPACTION TESTING
   REQUIREMENTS.

TYPICAL PAVEMENT SECTION

TACK COAT TO BE APPLIED BETWEEN ASPHALT LIFTS IN
ACCORDANCE W/ CURRENT NCDOOT SPECIFICATIONS

SURFACE COURSE
1 1/2" S9.5C - FINAL LIFT
1 1/2" S9.5C - INITIAL LIFT
INTERMEDIATE COURSE
4" H19.0C
BASE COURSE
12" ABC OR 5.5" ACBC TYPE B25.0C
SUBGRADE
SEE PLDS SPECIFICATIONS AND SPECIAL PROVISION
NOTE I.A.19 FOR SUBGRADE COMPACTION
REQUIREMENTS.
TOWN OF PINEVILLE
LAND DEVELOPMENT
STANDARDS

INDUSTRIAL COLLECTOR STREET
(NO PARKING)

TYPICAL SECTION

TYPICAL PAVEMENT SECTION

KEY

2”-6” CURB AND GUTTER

4” CONCRETE SIDEWALK, 6” AT ALL DRIVEWAYS.
INSTALL DRIVEWAY APRONS W/GEORGRID 1100 TENSILE (MIN) &
COMPACT SUBGRADE TO 100% STANDARD PROCTOR.
SEE PLANS SPECIFICATIONS AND SPECIAL PROVISIONS NOTE 1.F.1
FOR BASE REQUIREMENTS.

NOTES:

1. SIDEWALK SHALL BE PROVIDED ON BOTH SIDES
   OF THE STREET.

2. TREE TO BE PLANTED FOUR FEET FROM
   SIDEWALK.

3. REFER TO PLANS SPECIFICATIONS AND SPECIAL
   PROVISION NOTES FOR COMPACTION TESTING
   REQUIREMENTS.

NOT TO SCALE

REV. DATE
2/29/20

STD. NO. REV.
10.04D 4
TOWN OF PINEVILLE
LAND DEVELOPMENT
STANDARDS

INDUSTRIAL COLLECTOR STREET
WITH MEDIAN AND NO PARKING

NOT TO SCALE

REV. DATE
2/29/20

STD. NO. REV.
10.04E 4
TYPICAL SECTION

TACK COAT TO BE APPLIED BETWEEN ASPHALT LIFTS IN ACCORDANCE W/ CURRENT NCDOT SPECIFICATIONS

SURFACE COURSE
1 1/2" S9.5B - FINAL LIFT
1 1/2" S9.5B - INITIAL LIFT

BASE COURSE
8" ABC OR 4" ACBC TYPE B25.0B

SUBGRADE
SEE PLANS SPECIFICATIONS AND SPECIAL PROVISION NOTE IA.19 FOR SUBGRADE COMPACTON REQUIREMENTS.

NOTES:
1. DEVELOPER MAY SUBMIT AN ALTERNATIVE PAVEMENT DESIGN TO TOWN ENGINEER.
2. AN ALTERNATIVE PAVEMENT DESIGN MAY BE REQUIRED BY NCDOT BASED ON SPECIFIC TRAFFIC PARAMETERS.
3. SIDEWALK EASEMENT MAY BE REQUIRED.
4. REFER TO PLANS SPECIFICATIONS AND SPECIAL PROVISION NOTES FOR COMPACTION TESTING REQUIREMENTS.

KEY
④ 4" CONCRETE SIDEWALK, 6" AT ALL DRIVEWAYS.
INSTALL DRIVEWAY APRONS W/GEOGRID 1100 TENSILE (MIN) & COMPACT SUBGRADE TO 100% STANDARD PROCTOR.
SEE PLANS SPECIFICATIONS AND SPECIAL PROVISIONS NOTE IA.1 FOR BASE REQUIREMENTS.

NOT TO SCALE

TOWN OF PINEVILLE
LAND DEVELOPMENT
STANDARDS

COMMERCIAL STREET
(SPECIAL USE CONDITIONS)
### Key
- **R**: 2'-0" curb and gutter
- **S**: 4" concrete sidewalk, 6" at all driveways. Install driveway aprons w/Geogrid 1100 Tensile (MIN) & compact subgrade to 100% standard proctor. See PLOP specifications and special provisions note I.F.1 for base requirements.
- **T**: 1'-0" median curb and gutter

### Typical Pavement Section
- **Surface Course**: 1 1/2" S9.5B - Final Lift
  - 1 1/2" S9.5B - Initial Lift
- **Base Course**: 8" ABC or 4" ACBC type S25.0C
- **Subgrade**: See PLOP specifications and special provisions note I.F.1 for base requirements.

### Typical Section (Two Lane Section)
- Tack coat to be applied between asphalt lifts in accordance w/ current NCDOT specifications.

### Notes:
1. Sidewalk shall be provided on both sides of the street.
2. Refer to standard drawings regarding sidewalk around tree grates. Tree grates shall be provided when trees are located in the green zone.
3. For median divided facilities, a minimum sixteen (16) foot wide median with one foot six inch curb and gutter is needed. Where a left-turn lane is not installed, the median shall be landscaped.
4. Refer to standard drawings for parallel parking layout.
5. Refer to PLOP specifications and special provisions notes for compaction testing requirements.

### Town of Pineville Land Development Standards
- Retail/Mixed Use Local Street with Median and Parking

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**NOT TO SCALE**

**Rev. Date**: 2/29/20

**STD. NO.**: 10.05A

**REV.**: 4
TYPICAL SECTION

TACK COAT TO BE APPLIED BETWEEN ASPHALT LiftS IN ACCORDANCE W/ CURRENT NCDOT SPECIFICATIONS

SURFACE COURSE
1 1/2" 99.58 = FINAL LIFT
1 1/2" 99.58 = INITIAL LIFT

BASE COURSE
8" ABC OR 4" ACBC TYPE 825.08

SUBGRADE
SEE PLANS SPECIFICATIONS AND SPECIAL PROVISION NOTE 1A.19 FOR SUBGRADE COMPACTATION REQUIREMENTS.

NOT TO SCALE

1. SIDEWALK SHALL BE PROVIDED ON BOTH SIDES OF THE STREET.
2. REFER TO STANDARD DRAWINGS FOR PARALLEL PARKING LAYOUT.
3. REFER TO PLANS SPECIFICATIONS AND SPECIAL PROVISION NOTES FOR COMPACTATION TESTING REQUIREMENTS.

KEY
R 2'-6" CURB AND GUTTER
S 4" CONCRETE SIDEWALK, 6" AT ALL DRIVEWAYS.
INSTALL DRIVEWAY APRONS W/GEORGRID 1100 TENSILE (MIN) & COMPACT SUBGRADE TO 100% STANDARD PROCTOR.
SEE PLANS SPECIFICATIONS AND SPECIAL PROVISIONS NOTE 1F.1 FOR BASE REQUIREMENTS.

TOWN OF PINEVILLE
LAND DEVELOPMENT
STANDARDS

RETAIL/MIXED USE LOCAL STREET
PARKING AND GREEN ZONE ON BOTH SIDES

Pineville
NORTH CAROLINA

REV. DATE
2/29/20

STD. NO. REV.
10.05B 4
TYPICAL SECTION

TACK COAT TO BE APPLIED BETWEEN ASPHALT LIFTS IN ACCORDANCE WITH CURRENT NCDOT SPECIFICATIONS

SURFACE COURSE
1 1/2" S9.5B - FINAL LIFT
1 1/2" S9.5B - INITIAL LIFT

BASE COURSE
8" ABC OR 4" ACBC TYPE B25.08

SUBGRADE
SEE PLDS SPECIFICATIONS AND SPECIAL PROVISION NOTE I.A.19 FOR SUBGRADE COMPACTION REQUIREMENTS.

TYPICAL PAVEMENT SECTION

KEY

R 2'-6" CURB AND GUTTER
C 4" CONCRETE SIDEWALK, 6" AT ALL DRIVEWAYS, INSTALL DRIVEWAY APRONS W/GEOGRID 1100 TENSILE (MIN) & COMPACT SUBGRADE TO 100% STANDARD PROCTOR, SEE PLDS SPECIFICATIONS AND SPECIAL PROVISIONS NOTE I.A.19 FOR BASE REQUIREMENTS.

NOTES:
1. SIDEWALK SHALL BE PROVIDED ON BOTH SIDES OF THE STREET.
2. REFER TO PLDS SPECIFICATIONS AND SPECIAL PROVISION NOTES FOR COMPACTION TESTING REQUIREMENTS.

NOT TO SCALE

REV. DATE
2/29/20

STD. NO. REV.
10.05C 4
TYPICAL SECTION
(TWO LANE)

TOWN OF PINEVILLE
LAND DEVELOPMENT
STANDARDS

RETAIL/MIXED USE COLLECTOR STREET
WITH MEDIAN AND BIKE LANES

NOT TO SCALE

REV. DATE 2/29/20
STD. NO. 10.05D
REV. 4
TOWN OF PINEVILLE
LAND DEVELOPMENT
STANDARDS

RETAIL/MIXED USE LOCAL STREET
(NO PARKING)

NOT TO SCALE

REV. DATE
2/29/20

STD. NO. REV.
10.05E 4

KEY
① 2'-6" CURB AND GUTTER
③ 4" CONCRETE SIDEWALK, 6' AT ALL DRIVEWAYS.
INSTALL DRIVEWAY APRONS W/GEOWEB 1100 TENSILE (MIN) & COMPACT SUBGRADE TO 100% STANDARD PROCTOR.
SEE PLANS SPECIFICATIONS AND SPECIAL PROVISIONS NOTE 1.F.1 FOR BASE REQUIREMENTS.

NOTES:
1. SIDEWALK SHALL BE PROVIDED ON BOTH SIDES OF THE STREET.
2. REFER TO STANDARD DRAWINGS REGARDING SIDEWALK AROUND TREE GRATES.
3. REFER TO PLANS SPECIFICATIONS AND SPECIAL PROVISION NOTES FOR COMPACTING REQUIREMENTS.

TYPICAL PAVEMENT SECTION

TYPICAL SECTION

TACK COAT TO BE APPLIED BETWEEN ASPHALT LIFTS IN ACCORDANCE W/ CURRENT NCDOT SPECIFICATIONS

SURFACE COURSE
1 1/2" S9.5S - FINAL LIFT
1 1/2" S9.5S - INITIAL LIFT

BASE COURSE
8" ABC OR 4" ACBC TYPE B25.08

SUBGRADE
SEE PLANS SPECIFICATIONS AND SPECIAL PROVISION NOTE 1.A.19 FOR SUBGRADE COMPACTING REQUIREMENTS.

4" ASPHALT CONCRETE BASE COURSE, TYPE B25.08 OR 6" CABC COMPACTED TO 100% COMPACT TOP 6" SUBGRADE TO 100% ASPHALT BASE TO EXTEND 12" IN FRONT AND BACK OF CURB & GUTTER SECTION

NOT TO SCALE

REV. DATE
2/29/20

STD. NO. REV.
10.05E 4
TOWN OF PINEVILLE
LAND DEVELOPMENT
STANDARDS

RETAIL/MIXED USE LOCAL STREET
PARKING ON BOTH SIDES OF STREET

NOT TO SCALE

REV. DATE
2/29/20

TYPICAL SECTION

TYPICAL PAVEMENT SECTION

KEY

R 2'-6" CURB AND GUTTER
S 4" CONCRETE SIDEWALK, 6" AT ALL DRIVEWAYS.
INSTALL DRIVEWAY APRONS W/GEORGRID 1100 TENSILE (MIN) & COMPACT SUBGRADE TO 100% STANDARD PROCTOR.
SEE PLANS SPECIFICATIONS AND SPECIAL PROVISIONS NOTE I.F.1 FOR BASE REQUIREMENTS.

NOTES:
1. SIDEWALK SHALL BE PROVIDED ON BOTH SIDES OF THE STREET.
2. REFER TO STANDARD DRAWINGS REGARDING SIDEWALK AROUND TREE GRATES.
3. BASE COURSE TO EXTEND SIX INCHES BEYOND BACK OF CURB THEN TAPER OUT AT A FORTY-FIVE DEGREE ANGLE.
4. REFER TO STANDARD DRAWINGS FOR PARALLEL PARKING LAYOUT.
5. REFER TO PLANS SPECIFICATIONS AND SPECIAL PROVISIONS NOTES FOR COMPACTION TESTING REQUIREMENTS.
LOCAL RESIDENTIAL STREET
TOWN OF PINEVILLE
LAND DEVELOPMENT
STANDARDS

TYPICAL PAVEMENT SECTION

KEY

2'-0" VALLEY GUTTER OR 2'-6" STD. CURB AND GUTTER

4" CONCRETE SIDEWALK, 6" AT ALL DRIVEWAYS.
INSTALL DRIVEWAY APRONS W/ GEOGRID 1100 TENSILE (MIN) & COMPACT SUBGRADE TO 100% STANDARD PROCTOR.
SEE PLDS SPECIFICATIONS AND SPECIAL PROVISIONS NOTE I.F.1 FOR BASE REQUIREMENTS.

NOTES:

1. SIDEWALK WILL ONLY BE REQUIRED ON ONE SIDE OF STREET AND NOT ALONG CUL-DE-SAC "BULB".

2. IRRIGATION SYSTEMS ARE NOT ALLOWED IN THE STREET RIGHTS-OF-WAY UNLESS AN ENCROACHMENT AGREEMENT HAS BEEN ISSUED BY THE TOWN OF PINEVILLE.

3. TREES PROPOSED IN THE PLANTING STRIPS OR RIGHTS-OF-WAY SHALL BE APPROVED BY THE TOWN OF PINEVILLE PRIOR TO INSTALLATION.

4. ANY RESIDENTIAL STREET THAT RECEIVES TRAFFIC FROM 150 OR MORE LOTS SHALL BE CONSIDERED A RESIDENTIAL COLLECTOR STREET.

5. REFER TO PLDS SPECIFICATIONS AND SPECIAL PROVISIONS NOTES FOR COMPACTING TESTING REQUIREMENTS.

NOT TO SCALE
REV. DATE
4/2/21
STN. NO. REV.
10.06 5
TOWN OF PINEVILLE
LAND DEVELOPMENT
STANDARDS

LOCAL RESIDENTIAL STREET
PARKING ON ONE SIDE OF STREET

NOT TO SCALE
REV. DATE
2/29/20

SID. NO. REV.
10.06A 4

57' R/W (MINIMUM)

31'-6" (MIN.)

13'-0" (MIN.)

18'-6"

12'-6"

13'-0" (MIN.)

25'-6" (MIN.)

(1'-0"

2'-0"

3'-0"

4'-0"

5'-0"

6'-0"

TYPICAL SECTION

TYPICAL PAVEMENT SECTION

KEY

② 2'-6" CURB AND GUTTER
⑤ 4" CONCRETE SIDEWALK, 6" AT ALL DRIVEWAYS.
INSTALL DRIVEWAY APRONS W/GEORGRID 1100 TENSILE (MIN) & COMPACT SUBGRADE TO 100% STANDARD PROCTOR.
SEE PLANS SPECIFICATIONS AND SPECIAL PROVISIONS NOTE IF.1 FOR BASE REQUIREMENTS.

TACK COAT TO BE APPLIED BETWEEN ASPHALT LIFTS IN ACCORDANCE W/ CURRENT NC DOT SPECIFICATIONS

SURFACE COURSE
1 1/2" S9.58 = FINAL LIFT
1 1/2" S9.58 = INITIAL LIFT

BASE COURSE
8" ABC OR 4" ACBC TYPE B25.08

SUBGRADE
SEE PLANS SPECIFICATIONS AND SPECIAL PROVISIONS NOTE IF.1 FOR SUBGRADE COMPACTION REQUIREMENTS.

NOTES:
1. SIDEWALK SHALL BE PROVIDED ON BOTH SIDES OF THE STREET.
2. 2'-0" VALLEY GUTTER MAY BE SUBSTITUTED FOR 2'-6" CURB AND GUTTER ON THE SIDE OF THE STREET WITHOUT PARALLEL PARKING. THIS REDUCES THE MINIMUM RIGHT-OF-WAY BY SIX INCHES. 2'-0" VALLEY GUTTER MAY NOT BE SUBSTITUTED FOR 2'-6" CURB AND GUTTER ON THE SIDE OF THE STREET WITH PARALLEL PARKING.
3. REFER TO PLANS SPECIFICATIONS AND SPECIAL PROVISIONS NOTES FOR COMPACTED TESTING REQUIREMENTS.
TYPICAL SECTION

TACK COAT TO BE APPLIED BETWEEN ASPHALT Lifts IN ACCORDANCE W/ CURRENT NCDOT SPECIFICATIONS

SURFACE COURSE
1 1/2" S9.5B - FINAL LIFT
1 1/2" S9.5B - INITIAL LIFT

BASE COURSE
8" ABC OR 4" ACBC TYPE B25.08

SUBGRADE
SEE PLUS SPECIFICATIONS AND SPECIAL PROVISION NOTE 1.A.19 FOR SUBGRADE COMPACTION REQUIREMENTS.

NOTES:

1. DEVELOPER MAY SUBMIT AN ALTERNATIVE PAVEMENT DESIGN TO TOWN ENGINEER.

2. AN ALTERNATIVE PAVEMENT DESIGN MAY BE REQUIRED BY NCDOT BASED ON SPECIFIC TRAFFIC PARAMETERS.

3. SIDEWALK EASEMENT MAY BE REQUIRED.

4. IRRIGATION SYSTEMS ARE NOT ALLOWED IN THE STREET RIGHTS-OF-WAY UNLESS AN ENCROACHMENT AGREEMENT HAS BEEN ISSUED BY THE TOWN OF PINEVILLE.

5. TREES PROPOSED IN THE PLANTING STRIPS OR RIGHTS-OF-WAY SHALL BE APPROVED BY THE TOWN OF PINEVILLE PRIOR TO INSTALLATION.

6. ALL PROPOSED ROADWAYS IN COMMERCIAL AND INDUSTRIAL DEVELOPMENTS SHALL BE CONSIDERED COMMERCIAL COLLECTOR STREETS.

7. REFER TO PLUS SPECIFICATIONS AND SPECIAL PROVISION NOTES FOR COMPACTNESS TESTING REQUIREMENTS.

KEY
- 2'-6" CURB AND GUTTER
- 4" CONCRETE SIDEWALK, 6" AT ALL DRIVEWAYS.

INSTALL DRIVEWAY APRONS W/ GEORIDER 1100 TENSILE (MIN.) & COMPACT SUBGRADE TO 100% STANDARD PROCTOR.

SEE PLUS SPECIFICATIONS AND SPECIAL PROVISIONS NOTE 1.F.1 FOR BASE REQUIREMENTS.
TYPICAL PAVEMENT SECTION

4" CONCRETE SIDEWALK, 6" AT ALL DRIVEWAYS.
INSTALL DRIVEWAY APRONS W/ GEOGRID 1100 TENSILE (MIN) & COMPACT SUBGRADE TO 100% STANDARD PROCTOR.
SEE PLDS SPECIFICATIONS AND SPECIAL PROVISIONS NOTE 1.F.1 FOR BASE REQUIREMENTS.

TYPICAL SECTION

TACK COAT TO BE APPLIED BETWEEN ASPHALT LIFTS IN ACCORDANCE W/ CURRENT NCDOT SPECIFICATIONS

SURFACE COURSE
1 1/2" 59.58 = FINAL LIFT
1 1/2" 39.58 = INITIAL LIFT

BASE COURSE
6" ABC OR 4" ACBC TYPE 825.08

SUBGRADE
SEE PLDS SPECIFICATIONS AND SPECIAL PROVISION
NOTE 1.A.15 FOR SUBGRADE COMPACTION REQUIREMENTS

NOTES:
1. APPROVAL BY THE TOWN ENGINEER IS REQUIRED PRIOR TO USING DITCH TYPE SECTION.
2. TREES TO BE PLACED IN THE GREEN ZONE 3.5 FEET FROM EDGE OF SIDEWALK.
3. REFER TO PLDS SPECIFICATIONS AND SPECIAL PROVISION NOTES FOR COMPACTION TESTING REQUIREMENTS.

NOT TO SCALE

REV. DATE
2/29/20

STN. NO. REV.
10.06C 4
TYPICAL SECTION

TACK COAT TO BE APPLIED BETWEEN ASPHALT LIFTS IN ACCORDANCE W/ CURRENT NCDOT SPECIFICATIONS

SURFACE COURSE
1 1/2" S9.5B = FINAL LIFT
1 1/2" S9.5B = INITIAL LIFT

BASE COURSE
8" ABC OR 4" ACBC TYPE B25.0B

SUBGRADE
SEE PLDS SPECIFICATIONS AND SPECIAL PROVISION NOTE 14.19 FOR SUBGRADE COMPACTION REQUIREMENTS.

NOTES:
1. SIDEWALK WILL ONLY BE REQUIRED ON ONE SIDE OF STREET AND NOT ALONG CUL-DE-SAC "BULB".

2. IRRIGATION SYSTEMS ARE NOT ALLOWED IN THE STREET RIGHTS-OF-WAY UNLESS AN ENCROACHMENT AGREEMENT HAS BEEN ISSUED BY THE TOWN OF PINEVILLE.

3. TREES PROPOSED IN THE PLANTING STRIPS OR RIGHTS-OF-WAY SHALL BE APPROVED BY THE TOWN OF PINEVILLE PRIOR TO INSTALLATION.

4. ANY LOCAL LIMITED RESIDENTIAL STREET IS RESERVED FOR RESIDENTIAL STREETS THAT ARE LESS THAN 250 FT IN LENGTH END IN A CUL-DE-SAC AND WILL NOT BE EXTENDED IN THE FUTURE.

5. REFER TO PLDS SPECIFICATIONS AND SPECIAL PROVISIONS NOTE 14.19 FOR BASE REQUIREMENTS.

NOT TO SCALE

TOWN OF PINEVILLE
LAND DEVELOPMENT STANDARDS
LOCAL LIMITED RESIDENTIAL STREET
NOTES:

1. DEVELOPER MAY SUBMIT AN ALTERNATIVE PAVEMENT DESIGN TO TOWN ENGINEER.

2. AN ALTERNATIVE PAVEMENT DESIGN MAY BE REQUIRED BY NCDOT BASED ON SPECIFIC TRAFFIC PARAMETERS.

3. SIDEWALK EASEMENT MAY BE REQUIRED.

4. IRRIGATION SYSTEMS ARE NOT ALLOWED IN THE STREET RIGHTS-OF-WAY UNLESS AN ENCROACHMENT AGREEMENT HAS BEEN ISSUED BY THE TOWN OF PINEVILLE.

5. TREES PROPOSED IN THE PLANTING STRIPS OR RIGHTS-OF-WAY SHALL BE APPROVED BY THE TOWN OF PINEVILLE PRIOR TO INSTALLATION.

6. ANY RESIDENTIAL STREET THAT RECEIVES TRAFFIC FROM 150 OR MORE LOTS SHALL BE CONSIDERED A RESIDENTIAL COLLECTOR STREET.

7. REFER TO PLANS SPECIFICATIONS AND SPECIAL PROVISION NOTES FOR COMPACTION TESTING REQUIREMENTS.
TYPICAL PAVEMENT SECTION

TACK COAT TO BE APPLIED BETWEEN ASPHALT LIFTS IN ACCORDANCE W/ CURRENT NCDOT SPECIFICATIONS

SURFACE COURSE
1 1/2" 59.5B - FINAL LIFT
1 1/2" 59.5B - INITIAL LIFT

BASE COURSE
8" ABC OR 4" AC9C TYPE B25.0B

SUBGRADE
SEE PLDS SPECIFICATIONS AND SPECIAL PROVISION NOTE 1A.19 FOR SUBGRADE COMPACTION REQUIREMENTS.

KEY
R 2'-0" VALLEY GUTTER
S 4" CONCRETE SIDEWALK, 6" AT ALL DRIVEWAYS, INSTALL DRIVEWAY APRONS W/GEODROID 110G TENSILE (MIN) & COMPACT SUBGRADE TO 100% STANDARD PROCTOR.
SEE PLDS SPECIFICATIONS AND SPECIAL PROVISIONS NOTE 1F.1 FOR BASE REQUIREMENTS.

NOTES:
1. DEVELOPER MAY SUBMIT AN ALTERNATIVE PAVEMENT DESIGN TO TOWN ENGINEER.
2. AN ALTERNATIVE PAVEMENT DESIGN MAY BE REQUIRED BY NCDOT BASED ON SPECIFIC TRAFFIC PARAMETERS.
3. SIDEWALK EASEMENT MAY BE REQUIRED.
4. IRRIGATION SYSTEMS ARE NOT ALLOWED IN THE STREET RIGHTS-OF-WAY UNLESS AN ENCROACHMENT AGREEMENT HAS BEEN ISSUED BY THE TOWN OF PINEVILLE.
5. TREES PROPOSED IN THE PLANTING STRIPS OR RIGHTS-OF-WAY SHALL BE APPROVED BY THE TOWN OF PINEVILLE PRIOR TO INSTALLATION.
6. ANY RESIDENTIAL STREET THAT RECEIVES TRAFFIC FROM 150 OR MORE LOTS SHALL BE CONSIDERED A RESIDENTIAL COLLECTOR STREET.
7. REFER TO PLDS SPECIFICATIONS AND SPECIAL PROVISION NOTES FOR COMPACTION TESTING REQUIREMENTS.
TOWN OF PINEVILLE
LAND DEVELOPMENT
STANDARDS

RESIDENTIAL COLLECTOR STREET
WITH BIKE LANES

NOT TO SCALE
REV. DATE
2/29/20

SID. NO. REV.
10.10A 4

TYPICAL PAVEMENT SECTION

KEY
R 2'-6" CURB AND GUTTER
S 4" CONCRETE SIDEWALK, 6" AT ALL DRIVEWAYS.
INSTALL DRIVEWAY APRONS W/GEORIDGE 1100 TENSILE (MIN) & COMPACT SUBGRADE TO 100% STANDARD PROCTOR.
SEE PLSS SPECIFICATIONS AND SPECIAL PROVISIONS NOTE 1.F.1 FOR BASE REQUIREMENTS.

TYPICAL SECTION

TACK COAT TO BE APPLIED BETWEEN ASPHALT ULFITS IN ACCORDANCE W/ CURRENT NCDOT SPECIFICATIONS

SURFACE COURSE
1 1/2" 59.5B - FINAL ULF
1 1/2" 59.5B - INITIAL ULF

BASE COURSE
8" ABC OR 4" ACBC TYPE B25.0B

SUBGRADE
SEE PLSS SPECIFICATIONS AND SPECIAL PROVISION NOTE 1.A.19 FOR SUBGRADE COMPACION REQUIREMENTS.

NOTES:
1. SIDEWALK SHALL BE PROVIDED ON BOTH SIDES OF THE STREET.
2. BIKE LANES TO BE STRIPED.
3. REFER TO PLSS SPECIFICATIONS AND SPECIAL PROVISION NOTES FOR COMPACTION TESTING REQUIREMENTS.
TOWN OF PINEVILLE LAND DEVELOPMENT STANDARDS

RESIDENTIAL DIVIDED COLLECTOR STREET

TYPICAL SECTION
(TWO LANE SECTION)

NOTES:
1. CURB RETURN RADIUS DIMENSIONS AT INTERSECTIONS MAY VARY DEPENDING ON MEDIAN WIDTH AND WILL BE APPROVED ON A CASE BY CASE BASIS.
2. SUBDRAINAGES ARE REQUIRED ON ALL MEDIANS. TO BE TIED INTO STORM DRAINAGE SYSTEM.
3. MEDIAN PLANTINGS SHALL NOT OBSTRUCT INTERSECTION SIGHT DISTANCE REQUIREMENTS.
4. A TEN (10) FOOT WIDE MEDIAN IS REQUIRED FOR SMALL MATURING TREES. A TWENTY (20) FOOT WIDE MEDIAN IS REQUIRED FOR LARGE MATURING TREES.
5. BIKE LANE TO BE STRIPED.
6. REFER TO PLDS SPECIFICATIONS AND SPECIAL PROVISION NOTES FOR COMPACTION TESTING REQUIREMENTS.

NOT TO SCALE

REV. DATE
2/29/20

STD. NO. 10.10B
REV. 4
TOWNSHIP OF PINEVILLE
LAND DEVELOPMENT
STANDARDS

RESIDENTIAL DIVIDED COLLECTOR STREET WITH LEFT TURN LANE

NOT TO SCALE

REV. DATE: 2/29/20

KEY

2"-6" CURB AND GUTTER

4" CONCRETE SIDEWALK, 6" AT ALL DRIVEWAYS.
INSTALL DRIVEWAY APRONS W/GEOGRID 1100 TENSILE (MIN) &
COMPACT SUBGRADE TO 100% STANDARD PROCTOR.
SEE PLDS SPECIFICATIONS AND SPECIAL PROVISIONS NOTE 1.F.1
FOR BASE REQUIREMENTS.

1"-6" MEDIAN CURB AND GUTTER

NOTES:

1. CURB RETURN RADIUS DIMENSIONS AT INTERSECTIONS MAY VARY DEPENDING
ON MEDIUM WIDTH AND WILL BE APPROVED ON A CASE BY CASE BASIS.

2. SUBDRAINS ARE REQUIRED ON ALL MEDIANS. (TO BE TIED INTO STORM
DRAINAGE SYSTEM).

3. MEDIUM PLANTING SHALL NOT OBSTRUCT INTERSECTION SIGHT DISTANCE
REQUIREMENTS.

4. A TEN (10) FOOT WIDE MEDIAN IS REQUIRED FOR SMALL MATURE TREES.
A TWENTY (20) FOOT WIDE MEDIAN IS REQUIRED FOR LARGE MATURE TREES.

5. MONOLITHIC CONCRETE MEDIANS WITH BEVELED EDGES AND A MINIMUM WIDTH
OF 6 FEET CAN BE USED IN LIEU OF LANDSCAPED MEDIANS.

6. BIKE LANE TO BE STRIPED.

7. REFER TO PLDS SPECIFICATIONS AND SPECIAL PROVISIONS NOTES FOR
COMPACT TESTING REQUIREMENTS.

TYPICAL PAVEMENT SECTION

TYPICAL SECTION
(TWO LANE SECTION)

TACK COAT TO BE APPLIED BETWEEN ASPHALT LIFTS IN
ACCORDANCE W/ CURRENT NCDOOT SPECIFICATIONS

SURFACE COURSE
1 1/2" S9.58 – FINAL LIFT
1 1/2" S9.58 – INITIAL LIFT

BASE COURSE
9" ABC OR 4" ACBC TYPE B25.08

SUBGRADE
SEE PLDS SPECIFICATIONS AND SPECIAL PROVISION
NOTE I.A.19 FOR SUBGRADE COMPACTION

NOTES:
TYPICAL SECTION

TACK COAT TO BE APPLIED BETWEEN ASPHALT LIFTS IN ACCORDANCE W/ CURRENT NCDOT SPECIFICATIONS

SURFACE COURSE
1 1/2" 59.5B - FINAL LIFT
1 1/2" 59.5B - INITIAL LIFT

BASE COURSE
8" ABC OR 4" ACBC TYPE B25.08

SUBGRADE
SEE PLDS SPECIFICATIONS AND SPECIAL PROVISION NOTE LA.12 FOR SUBGRADE COMPACTION REQUIREMENTS.

TYPICAL PAVEMENT SECTION

KEY

5 4" CONCRETE SIDEWALK, 6" AT ALL DRIVEWAYS.
INSTALL DRIVEWAY APRONS W/GEORGRID 1100 TENSILE (MIN) & COMPACT SUBGRADE TO 100% STANDARD PROCTOR.
SEE PLDS SPECIFICATIONS AND SPECIAL PROVISIONS NOTE 1.F.1 FOR BASE REQUIREMENTS.

NOTES:
1. SIDEWALK LOCATED OUTSIDE OF STREET RIGHT-OF-WAY SHALL BE LOCATED IN A PERMANENT SIDEWALK EASEMENT EXTENDING 1 FOOT BEYOND BACK OF SIDEWALK.
2. TREES TO BE PLACED IN GREEN ZONE 3.5 FEET FROM FACE OF SIDEWALK.
3. BIKE LANE TO BE STRIPED.
4. REFER TO PLDS SPECIFICATIONS AND SPECIAL PROVISION NOTES FOR COMPACTION TESTING REQUIREMENTS.

TOWN OF PINEVILLE
LAND DEVELOPMENT
STANDARDS

RESIDENTIAL COLLECTOR STREET
(DITCH TYPE)

NOT TO SCALE

REV.
DATE

2/29/20

STD. NO.
REV.

10.10D 4
TYPICAL SECTION

TACK COAT TO BE APPLIED BETWEEN ASPHALT LIFTS IN ACCORDANCE W/ CURRENT NCDOT SPECIFICATIONS

SURFACE COURSE
1 1/2" S9.5B - FINAL LIFT
1 1/2" S9.5B - INITIAL LIFT

BASE COURSE
2" ABC OR 4" ACBC TYPE B25.0B

SUBGRADE
SEE PLDS SPECIFICATIONS AND SPECIAL PROVISION NOTE LA.19 FOR SUBGRADE COMPACTION REQUIREMENTS.

NOTES:
1. SIDEWALK LOCATED OUTSIDE OF STREET RIGHT-OF-WAY SHALL BE LOCATED IN A PERMANENT SIDEWALK EASEMENT EXTENDING 1 FOOT BEYOND BACK OF SIDEWALK.
2. TREES TO BE PLACED IN GREEN ZONE 3.5 FEET FROM FACE OF SIDEWALK.
3. BIKE LANE TO BE STRIPED.
4. REFER TO PLDS SPECIFICATIONS AND SPECIAL PROVISION NOTES FOR COMPACTION TESTING REQUIREMENTS

KEY
③ 4" CONCRETE SIDEWALK, 6" AT ALL DRIVEWAYS.
INSTALL DRIVEWAY APRONS W/GEORIG 1100 TENSILE (MIN) & COMPACT SUBGRADE TO 100% STANDARD PROCTOR.
SEE PLDS SPECIFICATIONS AND SPECIAL PROVISIONS NOTE IF.1 FOR BASE REQUIREMENTS.

NOT TO SCALE
REV. DATE 2/29/20
SID. NO. REV. 10.10E 4

TOWN OF PINEVILLE
LAND DEVELOPMENT
STANDARDS

RESIDENTIAL DIVIDED COLLECTOR STREET
DITCH TYPE WITH MEDIAN DITCH

Pineville
NORTH CAROLINA
NOTES:

1. Subgrade shall be compacted to public street standard.

2. Storm drainage (not shown) shall be provided as necessary.

3. Alleys shall be considered private easements and will not be accepted for maintenance by the Town of Pineville.

4. Driveways shall be separated by at least 5 feet, or greater if required by planning (lot size) requirements and/or N.C. building code.

5. Detail applies to single or double-loaded alleys. For single-loaded alleys, there shall be a 20-foot clear zone free of cut slopes, obstructions, hedges, etc. from the loaded side edge of pavement.

* With no parking pad, dimension D3 is required to be minimum 5' but no greater than 7'. With parking pad, dimension D4 is required to be a minimum of 20'.

ALLEY WITH NORMAL CROWN

ALLEY WITH INVERSE CROWN

MINIMUM DIMENSIONS:

<table>
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<tr>
<th>A</th>
<th>D1</th>
<th>D2</th>
<th>D3</th>
<th>D4</th>
</tr>
</thead>
<tbody>
<tr>
<td>45°</td>
<td>24°</td>
<td>17°</td>
<td>5'–7'*</td>
<td>20'</td>
</tr>
<tr>
<td>60°</td>
<td>26.5°</td>
<td>17.8°</td>
<td>5'–7'*</td>
<td>20'</td>
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TOWN OF PINEVILLE
LAND DEVELOPMENT STANDARDS

RESIDENTIAL ALLEY DETAIL
ONE-WAY OPERATION
(PRIVATE)

TOWN OF PINEVILLE
LAND DEVELOPMENT STANDARDS

NOT TO SCALE

REV. DATE: 2/28/22
STD. NO. REV. 10.11A 6
NOTES:

1. Subgrade shall be compacted to public street standards.
2. Storm drainage (not shown) shall be provided as necessary.
3. Alleys shall be considered private easements and will not be accepted for maintenance by the Town of Pineville.
4. Driveways shall be separated by at least 5 feet, or greater if required by planning (lot size) requirements and/or N.C. building code.

* With no parking pad, dimension D3 is required to be minimum 5', but no greater than 7'. With parking pad, dimension D4 is required to be a minimum of 20'.

---

**PLAN**

- **ALLEY WITH NORMAL CROWN**
- **ALLEY WITH INVERSE CROWN**

**TOWN OF PINEVILLE**

**LAND DEVELOPMENT STANDARDS**

**RESIDENTIAL ALLEY DETAIL**

DOUBLE LOADED WITH TWO-WAY OPERATION (PRIVATE)

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**MINIMUM DIMENSIONS:**

<table>
<thead>
<tr>
<th>A</th>
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<th>D2</th>
<th>D3</th>
<th>D4</th>
</tr>
</thead>
<tbody>
<tr>
<td>45'</td>
<td>24'</td>
<td>17'</td>
<td>5'-7&quot;*</td>
<td>20'</td>
</tr>
<tr>
<td>60'</td>
<td>25.5'</td>
<td>17.5'</td>
<td>5'-7&quot;*</td>
<td>20'</td>
</tr>
</tbody>
</table>

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**GARAGE (OPTIONAL)**

---

**NOT TO SCALE**

---

**REV. DATE**

2/28/22
NOTES:
1. Subgrade shall be compacted to public street standards.
2. Storm drainage (not shown) shall be provided as necessary.
3. Alleys shall be considered private easements and will not be accepted for maintenance by the Town of Pineville.
4. Driveways shall be separated by at least 5 feet, or greater if required by planning (LOT size) requirements and/or N.C. building code.
5. No cut slopes, obstructions, hedges, etc. on non-loaded side of alley within 20 feet of loaded side edge of pavement.

* With no parking pad, dimension D3 is required to be minimum 5' but no greater than 7'. With parking pad, dimension D4 is required to be a minimum of 20'.

NOTE: D3+ is 5' minimum.
TOWN OF PINEVILLE
LAND DEVELOPMENT
STANDARDS

TYPICAL PAVEMENT SECTION

TYPICAL SECTION

NOTES:
1. IRRIGATION SYSTEMS ARE NOT ALLOWED IN THE PUBLIC RIGHTS-OF-WAY UNLESS AN ENCROACHMENT AGREEMENT HAS BEEN ISSUED BY THE TOWN OF PINEVILLE.
2. TREES PROPOSED IN THE PLANTING STRIPS OR RIGHTS-OF-WAY SHALL BE APPROVED BY THE TOWN OF PINEVILLE PRIOR TO INSTALLATION.
3. REFER TO PLDS SPECIFICATIONS AND SPECIAL PROVISION NOTES FOR COMPACTING TESTING REQUIREMENTS.
4. FIRE TRUCK RATED ALLEY PAVEMENT, AND CURBING SHALL BE DESIGNED TO WITHSTAND 80,000 LB. LOAD

NOT TO SCALE

KEY
A 1'-0" CONCRETE RIBBON CURB
B COMPACTED EARTH MATERIAL
NOTES:
1. ALTERNATIVE CUL-DE-SAC DESIGNS, INCLUDING ISLANDS SHALL BE SUBMITTED TO THE TOWN ENGINEER FOR REVIEW AND APPROVAL.
2. PAVEMENT SECTION SHALL CONFORM WITH THE DESIGN REQUIREMENTS FOR COMMERCIAL STREETS.
3. THE CROWN FOR PAVEMENT SHALL BE 1/4" PER FT FROM THE CENTER OF THE CUL-DE-SAC.
4. IRRIGATION SYSTEMS ARE NOT ALLOWED IN THE STREET RIGHTS-OF-WAY UNLESS AN ENCROACHMENT AGREEMENT HAS BEEN ISSUED BY THE TOWN OF PINEVILLE.
5. TREES PROPOSED IN THE PLANTING STRIPS OR RIGHTS-OF-WAY SHALL BE APPROVED BY THE TOWN OF PINEVILLE PRIOR TO INSTALLATION.
NOTES:

1. ALTERNATIVE CUL-DE-SAC DESIGNS, INCLUDING ISLANDS SHALL BE SUBMITTED TO THE TOWN ENGINEER FOR REVIEW AND APPROVAL.

2. SIDEWALK MAY BE REQUIRED TO EXTEND AROUND CUL-DE-SAC BULB WHERE PARKS OR SCHOOLS HAVE FRONTAGE TO THE END OF THE CUL-DE-SAC.

3. THE CROWN FOR PAVEMENT SHALL BE 1/4" PER FT FROM THE CENTER OF THE CUL-DE-SAC.

4. IRRIGATION SYSTEMS ARE NOT ALLOWED IN THE STREET RIGHTS-OF-WAY UNLESS AN ENCROACHMENT AGREEMENT HAS BEEN ISSUED BY THE TOWN OF PINEVILLE.

5. TREES PROPOSED IN THE PLANTING STRIPS OR RIGHTS-OF-WAY SHALL APPROVED BY THE TOWN OF PINEVILLE PRIOR TO INSTALLATION.
STANDARD CURB AND GUTTER

1'-6" STANDARD CURB AND GUTTER

SLOPE FOR VARIABLE SUPERELEVATION RATES

NOTE:
4" ASPHALT CONCRETE BASE COURSE,
TYPE B25.08 OR 6" CBC COMPACTED TO
100% COMPACT TOP 6" SUBGRADE TO
100% ASPHALT BASE TO EXTEND 12" IN
FRONT AND BACK OF CURB & GUTTER
SECTION

TOWN OF PINEVILLE
LAND DEVELOPMENT
STANDARDS

STANDARD 2'-6" CURB AND GUTTER

2'-0" STANDARD CURB & GUTTER
CURB AND GUTTER

2'-0" VALLEY GUTTER

1'-6" MEDIAN CURB AND GUTTER
TO BE USED IN MEDIANS WHEN LAKES ARE SLOPED FROM ISLAND OR AS SPECIFIED BY THE TOWN ENGINEER.

1'-6" MOUNTABLE CURB AND GUTTER
TO BE USED IN MEDIANS ONLY: WHEN SPECIFIED BY THE APPROPRIATE TOWN ENGINEERING DEPT.

NOTES:
1. CONTRACTION JOINTS SHALL BE SPACED AT 10-FOOT INTERVALS. FOR VALLEY GUTTER, A 10-FOOT SPACING MAY BE USED WHEN A MACHINE IS USED. JOINT SPACING MAY BE ALTERED BY THE TOWN ENGINEER TO PREVENT UNCONTROLLED CRACKING.
2. CONTRACTION JOINTS MAY BE INSTALLED BY THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS WHERE SUCH JOINTS ARE NOT FORMED BY TEMPLATES, A MINIMUM DEPTH OF 1 1/2" SHALL BE OBTAINED.
3. ALL EXPANSION JOINTS SHALL BE SPACED AT 90-FOOT INTERVALS, AND ADJACENT TO ALL RIGID OBJECTS. JOINTS SHALL MATCH LOCATIONS WITH JOINTS IN ABUTTING SIDEWALK.
4. CONCRETE COMpressive STRENGTH SHALL BE 3600 P.S.I. IN 28 DAYS.
5. CURB SHALL BE DEPRESSED AT INTERSECTIONS TO PROVIDE FOR FUTURE ACCESSIBLE RAMPS.
6. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B OR 6" CBABC COMPACTED TO 100%. COMPACT TOP 6" SUBGRADE TO 100% ASPHALT BASE TO EXTEND 12" IN FRONT AND BACK OF CURB & GUTTER SECTION.

TOWN OF PINEVILLE
LAND DEVELOPMENT
STANDARDS

not to scale
NOTES:
1. CONTRACTION JOINTS SHALL BE SPACED AT 10-FOOT INTERVALS. JOINT SPACING MAY BE ALTERED BY THE ENGINEER TO PREVENT UNCONTROLLED CRACKING.
2. CONTRACTION JOINTS MAY BE INSTALLED BY THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS. WHERE SUCH JOINTS ARE NOT FORMED BY TEMPLATES, A MINIMUM DEPTH OF 1 1/2" SHALL BE OBTAINED.
3. ALL EXPANSION JOINTS SHALL BE SPACED AT 90-FOOT INTERVALS, AND ADJACENT TO ALL RIGID OBJECTS. JOINTS SHALL MATCH LOCATIONS WITH JOINTS IN ABUTTING SIDEWALK.
4. CONCRETE COMPRESSION STRENGTH SHALL BE 3600 P.S.I. IN 28 DAYS.
5. CURB SHALL BE DEPRESSED AT INTERSECTIONS TO PROVIDE FOR FUTURE ACCESSIBLE RAMPS.
6. TOP 6" OF SUBGRADE BENEATH THE CURB SHALL BE COMPACTED TO 100% STANDARD PROCTOR DENSITY.
7. DETAIL MAY BE USED FOR PRIVATE DRIVES, PARKING LOTS, AND INTERIOR CIRCULATION DRIVE.
NOTES:

1. TRANSITION IS NOT TO BE LOCATED WITHIN THE CURB RADIUS.
2'-6" CURB AND GUTTER TO 1'-6" CURB AND GUTTER

NOTES:
1. TRANSITION TO BE ALONG BACK OF CURB.

NOT TO SCALE

TOWN OF PINEVILLE
LAND DEVELOPMENT
STANDARDS

CURB TRANSITION
10.20
GENERAL NOTES:

1. A GROOVE JOINT 1” DEEP WITH 1/8” RADIUS SHALL BE REQUIRED IN THE CONCRETE SIDEWALK AT 5’ INTERVALS. ONE 1/2” EXPANSION JOINT WILL BE REQUIRED AT 45’ INTERVALS NOT TO EXCEED 50’ AND MATCHING EXPANSION/CONSTRUCTION JOINT IN ADJACENT CURB. A SEALED 1/2” EXPANSION JOINT WILL BE REQUIRED WHERE THE SIDEWALK JOINS ANY RIGID STRUCTURE.

2. SIDEWALK AT DRIVEWAY ENTRANCES TO BE 6” THICK.

3. WIDTH OF SIDEWALK ON THOROUGHFARE STREETS SHALL BE A MINIMUM OF 5’. WIDTH OF SIDEWALKS IN THE CENTRAL BUSINESS DISTRICT WILL BE DETERMINED BY THE TOWN PLANNING DEPT.

4. WIDTH OF SIDEWALKS ON NON-THOROUGHFARE STREETS SHALL BE A MINIMUM OF 5’.

5. SIDEWALK TO BE Poured TO END OF RADIUS AT INTERSECTING STREETS.

6. CONCRETE COMPRESSIVE STRENGTH SHALL BE 3600 PSI IN 28 DAYS.

7. ZONING CONDITIONS MAY REQUIRE ADDITIONAL WIDTH SIDEWALKS WHICH SHALL SUPERSede THESE STANDARD DIMENSIONS SHOWN.

8. TRANSVERSE EXPANSION JOINTS SHALL BE FILLED WITH AN ELASTIC Epoxy FROM THE FILLER TO FLUSH WITH THE TOP OF THE SIDEWALK.

9. CONCRETE SHALL BE PLACED ON MINIMUM 6” ABC STONE COMPACTED TO 95% DENSITY, OR PLACED ON SUBGRADE COMPACTED TO 95% DENSITY WITH GEORID 1100 MAT.

DETAILS SHOWING EXPANSION JOINTS IN CONCRETE SIDEWALK

NOT TO SCALE

TOWN OF PINEVILLE
LAND DEVELOPMENT
STANDARDS

CONCRETE SIDEWALKS
GENERAL NOTES:

1. A GROOVE JOINT 1" DEEP WITH 1/3" RADI SHALL BE REQUIRED IN THE CONCRETE SIDEWALK AT 5' INTERVALS. ONE 1/2" EXPANSION JOINT WILL BE REQUIRED AT 40' INTERVALS. A 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE THE SIDEWALK JOINS ANY RIDGIO STRUCTURE.

2. ALL CONCRETE TO BE 3600 P.S.I. COMPRRESSIVE STRENGTH.

3. SEE PLDS 10.22 FOR DETAIL OF EXPANSION JOINT AND GROOVE JOINT.

4. SEE PLDS 10.26 FOR DETAIL OF DRIVEWAY.

5. MONOLITHIC CURB AND SIDEWALK TO BE CONSTRUCTED ONLY WHEN REPLACING GRANITE CURB OR AT LOCATIONS APPROVED BY THE APPROPRIATE TOWN ENGINEER.

6. CONCRETE SHALL BE PLACED ON MINIMUM 6" ABC STONE COMPACTED TO 95% DENSITY, OR PLACED ON SUBGRADE COMPACTED TO 95% DENSITY WITH GEOGRID 1100 MAT.

TOWN OF PINEVILLE
LAND DEVELOPMENT STANDARDS

MONOLITHIC CONCRETE CURB AND SIDEWALK

REV. DATE
4/2/21

STD. NO. REV.
10.23
NOTE:
1. 1/2" EXPANSION JOINTS REQUIRE INSTALLATION OF ONE 1/2" THICK PIECE OF BITUMINOUS FIBER THROUGH THE ENTIRE SLAB.
2. TO LIMIT STORM WATER FLOW DOWN DRIVEWAYS, USE PLDS 10.24C FOR DRIVEWAYS NEAR LOW POINTS.
3. ALL DRIVEWAYS MUST MEET THE CURRENT TOWN DRIVEWAY REGULATIONS AND NC DOT REQUIREMENTS FOR SPACING, SIGHT DISTANCE AND OFFSETS FROM PROPERTY LINES AND INTERSECTIONS.
4. "A" BREAKOVER SHALL BE 8% OR LESS (A = ALGEBRAIC DIFFERENCE).
5. PRIOR APPROVAL IS REQUIRED BY COOT ON GRADES EXCEEDING WHAT ARE SHOWN.

GENERAL NOTES:
ALL CONCRETE TO BE 3600 P.S.I. COMPRESSIVE STRENGTH.
ALL CURB, CURB AND GUTTER AND SIDEWALKS ARE TO BE REMOVED TO THE NEAREST JOINT BEYOND NEW CONSTRUCTION OR CUT WITH A SAW AND REMOVED. SAW CUT OR JOINT TO BE PERPENDICULAR TO EDGE OF EXISTING PAVEMENT.
SEE PLDS 10.17B FOR DETAIL OF EXPANSION JOINT AND GROOVE JOINT.

<table>
<thead>
<tr>
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<th>MAXIMUM</th>
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<tbody>
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<td>TYPE I - RESIDENTIAL: LOCAL/COLLECTOR THOROUGHFARE*</td>
<td>10'</td>
<td>30'</td>
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<tr>
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<td>15'</td>
<td>30'</td>
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<tr>
<td>ONE-WAY TYPE II COMMERCIAL</td>
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</tr>
<tr>
<td>TWO-WAY TYPE II COMMERCIAL</td>
<td>26'</td>
<td>50'</td>
</tr>
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</table>

* MUST PROVIDE ON-SITE TURNAROUND

COMMERCIAL TYPE II AND RESIDENTIAL TYPE I DROP CURB DRIVEWAY WITH SIDEWALK ABUTTING CURB (2'-6" CURB AND GUTTER)
NOTE:
1. 1/2" EXPANSION JOINTS REQUIRE INSTALLATION OF ONE 1/2" THICK PIECE OF BITUMINOUS FIBER THROUGH THE ENTIRE SLAB.
2. TO LIMIT STORM WATER FLOW DOWN DRIVEWAYS, USE STANDARD 10.24C FOR DRIVEWAYS NEAR LOW POINTS.
3. ALL DRIVEWAYS MUST MEET THE CURRENT TOWN DRIVEWAY REGULATIONS AND NCDOT REQUIREMENTS FOR SPACING, SIGHT DISTANCE AND OFFSETS FROM PROPERTY LINES AND INTERSECTIONS.
4. "A" BREAKOVER SHALL BE 8% OR LESS (A = ALGEBRAIC DIFFERENCE).
5. PRIOR APPROVAL IS REQUIRED BY TOWN ENGINEER ON GRADES EXCEEDING WHAT ARE SHOWN.

GENERAL NOTES:
1. ALL CONCRETE TO BE 3600 P.S.I. COMPRESSIVE STRENGTH.
2. ALL CURB, CURB AND GUTTER AND SIDEWALKS ARE REMOVED TO THE NEAREST JOINT BEYOND NEW CONSTRUCTION OR CUT WITH A SAW AND REMOVED, SAW CUT OR JOINT TO BE PERPENDICULAR TO EDGE OF EXISTING PAVEMENT. SEE PLDS 10.17B FOR DETAIL OF EXPANSION JOINT AND GROOVE JOINT.

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<td>TYPE I - RESIDENTIAL: LOCAL/COLLECTOR THOROUGHFARE*</td>
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<td>15'</td>
<td>30'</td>
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<tr>
<td>ONE-WAY TYPE II COMMERCIAL</td>
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<td>30'</td>
</tr>
<tr>
<td>TWO-WAY TYPE II COMMERCIAL</td>
<td>26'</td>
<td>50'</td>
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</table>

* MUST PROVIDE ON-SITE TURNAROUND

COMMERCIAL TYPE II AND RESIDENTIAL TYPE I DROP CURB
DRIVEWAY WITH SIDEWALK ABUTTING CURB
(6" X 18" VERTICAL CURB)

TOWN OF PINEVILLE
LAND DEVELOPMENT
STANDARDS

REV. DATE
STD. NO. 10.24B
REV.
DRIVEWAY WIDTH

<table>
<thead>
<tr>
<th>TYPE DRIVEWAY</th>
<th>MINIMUM</th>
<th>MAXIMUM</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE I—RESIDENTIAL: LOCAL/COLLECTOR</td>
<td>10’</td>
<td>30’</td>
</tr>
<tr>
<td>THROUGHFARE*</td>
<td>15’</td>
<td>30’</td>
</tr>
<tr>
<td>ONE-WAY TYPE II COMMERCIAL</td>
<td>20’</td>
<td>30’</td>
</tr>
<tr>
<td>TWO-WAY TYPE II COMMERCIAL</td>
<td>26’</td>
<td>50’</td>
</tr>
</tbody>
</table>

* MUST PROVIDE ON-SITE TURNAROUND

NOTES

1. USED AT LOW POINTS IN ROADWAYS WITH 2’-6” CURB AND GUTTER OR 6” X 18” CURB AS DIRECTED BY TOWN ENGINEER.
2. SEE PLDS 10.24A & 10.24B FOR ADDITIONAL DETAILS.
3. ALL DRIVEWAYS MUST MEET THE CURRENT TOWN DRIVEWAY REGULATIONS AND NC DOT REQUIREMENTS FOR SPACING, SIGHT DISTANCE AND OFFSETS FROM PROPERTY LINES AND INTERSECTIONS.

NOT TO SCALE

TOWN OF PINEVILLE
LAND DEVELOPMENT STANDARDS

COMMERCIAL AND RESIDENTIAL DROP CURB
DRIVEWAY WITH SIDEWALK ABUTTING CURB

REV. DATE

STD. NO. REV.

10.24C
NOTES:
1. ALL CONCRETE TO BE 3600 P.S.I.
2. ALL CURB OR CURB AND GUTTER AND SIDEWALKS ARE TO BE REMOVED TO THE NEAREST JOINT BEYOND NEW CONSTRUCTION OR CUT WITH A SAW AND REMOVED. SAW CUT OR JOINT TO BE PERPENDICULAR TO EDGE OF EXISTING PAVEMENT. SEE PLDS 10.17B FOR JOINT DETAIL.
3. ALL DRAWSAYS MUST MEET THE CURRENT TOWN DRAWSAY REGULATIONS AND NCDOT REQUIREMENTS FOR SPACING, SIGHT DISTANCE AND OFFSETS FROM PROPERTY LINES AND INTERSECTIONS.
4. "A" BREAKOVER SHALL BE 8% OR LESS (A = ALGEBRAIC DIFFERENCE).
5. PRIOR APPROVAL IS REQUIRED BY TOWN ENGINEER ON GRADES EXCEEDING WHAT ARE SHOWN.

### RESIDENTIAL DROP CURB TYPE I

**DRIVEWAY WIDTH**

<table>
<thead>
<tr>
<th>DRIVEWAY TYPE</th>
<th>MINIMUM</th>
<th>MAXIMUM</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOCAL/COLLECTOR</td>
<td>10'</td>
<td>30'</td>
</tr>
<tr>
<td>THOROUGHFARE*</td>
<td>15'</td>
<td>30'</td>
</tr>
</tbody>
</table>

* MUST PROVIDE ON-SITE TURNAROUND

---

TOWN OF PINEVILLE LAND DEVELOPMENT STANDARDS

RESIDENTIAL DROP CURB TYPE I

DRIVEWAY WITH PLANTING STRIP (2'-6" CURB AND GUTTER)

REV. DATE: 8/1/19

STN. NO. REV. 10.25A 3
NOTES:

1. ALL CONCRETE TO BE 3600 P.S.I.

2. ALL CURB OR CURB AND GUTTER AND SIDEWALKS ARE TO BE REMOVED TO THE NEAREST JOINT BEYOND NEW CONSTRUCTION OR CUT WITH A SAW AND REMOVED. SAW CUT OR JOINT TO BE PERPENDICULAR TO EDGE OF EXISTING PAVEMENT. SEE PLDS 10.17B FOR JOINT DETAIL.

3. ALL DRIVEWAYS MUST MEET THE CURRENT TOWN DRIVEWAY REGULATIONS AND NCDOT REQUIREMENTS FOR SPACING, SIGHT DISTANCE AND OFFSETS FROM PROPERTY LINES AND INTERSECTIONS.

4. "A" BREAKOVER SHALL BE 8% OR LESS (A = ALGEBRAIC DIFFERENCE).

5. PRIOR APPROVAL IS REQUIRED BY TOWN ENGINEER ON GRADES EXCEEDING WHAT ARE SHOWN.

---

<table>
<thead>
<tr>
<th>DRIVEWAY TYPE</th>
<th>MINIMUM</th>
<th>MAXIMUM</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOCAL/COLLECTOR</td>
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<td>30'</td>
</tr>
<tr>
<td>THOROUGHFARE*</td>
<td>15'</td>
<td>30'</td>
</tr>
</tbody>
</table>

---

SECTION B - B

NOT TO SCALE

TOWN OF PINEVILLE
LAND DEVELOPMENT
STANDARDS

DROP CURB DRIVEWAY
WITHOUT PLANTING STRIP

REV. DATE
8/1/19

STD. NO. REV.
10.25A1 3
NOTES:

1. ALL CONCRETE TO BE 3500 P.S.I.

2. ALL CURB OR CURB AND GUTTER AND SIDEWALKS ARE TO BE REMOVED TO THE NEAREST JOINT BEYOND NEW CONSTRUCTION OR CUT WITH A SAW AND REMOVED. SAW CUT OR JOINT TO BE PERPENDICULAR TO EDGE OF EXISTING PAVEMENT. SEE PLDS 10.17B FOR JOINT DETAIL.

3. ALL DRIVEWAYS MUST MEET THE CURRENT TOWN DRIVEWAY REGULATIONS AND NCDOT REQUIREMENTS FOR SPACING, SIGHT DISTANCE AND OFFSETS FROM PROPERTY LINES AND INTERSECTIONS.

4. "A" BREAKOVER SHALL BE 8% OR LESS (A = ALGEBRAIC DIFFERENCE).

5. PRIOR APPROVAL IS REQUIRED BY TOWN ENGINEER ON GRADES EXCEEDING WHAT ARE SHOWN.

---

**TOWN OF PINEVILLE**

**LAND DEVELOPMENT STANDARDS**

**COMMERCIAL DROP CURB TYPE II DRIVEWAY WITH PLANTING STRIP**

(2'-6" CURB AND GUTTER)

---

**PLAN VIEW**

- 1/2" EXP. JOINT
- 4'-0" MIN.
- 2'-6" MIN.
- 4'-0" MIN.
- 1/4"/FT.
- 1/4"/FT.
- 10'-0"
- 10'-0"
- 14%
- 14%

**SECTION A-A**

**SECTION B - B**

---

**DRIVEWAYS CLASSIFICATION**

<table>
<thead>
<tr>
<th>TYPE DRIVEWAYS</th>
<th>MINIMUM</th>
<th>MAXIMUM</th>
</tr>
</thead>
<tbody>
<tr>
<td>ONE-WAY TYPE II - COMMERCIAL</td>
<td>20'</td>
<td>30'</td>
</tr>
<tr>
<td>TWO-WAY TYPE II - COMMERCIAL</td>
<td>26'</td>
<td>50'</td>
</tr>
</tbody>
</table>

* NEED MORE THAN ONE CONTRACTION JOINT IN CENTER.
NOTES:

1. ALL CONCRETE TO BE 3600 P.S.I.

2. ALL CURB OR CURB AND GUTTER AND SIDEWALKS ARE TO BE REMOVED TO THE NEAREST JOINT BEYOND NEW CONSTRUCTION OR CUT WITH A SAW AND REMOVED, SAW CUT OR JOINT TO BE PERPENDICULAR TO EDGE OF EXISTING PAVEMENT. SEE PLDS 10.178 FOR JOINT DETAIL.

3. ALL DRIVEWAYS MUST MEET THE CURRENT TOWN DRIVEWAY REGULATIONS AND NCDOT REQUIREMENTS FOR SPACING, SIGHT DISTANCE AND OFFSETS FROM PROPERTY LINES AND INTERSECTIONS.

4. "A" BREAKOVER SHALL BE 8% OR LESS (A = ALGEBRAIC DIFFERENCE).

5. PRIOR APPROVAL IS REQUIRED BY TOWN ENGINEER ON GRADES EXCEEDING WHAT ARE SHOWN.

---

**PLAN VIEW**

**SECTION A-A (ALONG FLOW LINE)**

- Driveway Width Varies
- Sidewalk
- 1/2" Exp. Joint
- 1/2" Exp. Joint
- 1/2" Exp. Joint
- Planting Strip (Varies)
- Groove Joint or Construction Joint
- Groove Joint
- Planting Strip (Varies)
- Taper Curb Depth to Meet Driveway
- Driveway Varies (See Table)
- 4'-0"
- 4'-0"
- 4'-0"
- 4'-0"
- 4'-0"
- 4'-0"

**SECTION B - B**

- Residential Drop Curb Type I Driveway
- With Planting Strip
- (6" X 18" Vertical Curb)

---

<table>
<thead>
<tr>
<th>Driveway Width</th>
<th>Driveway Type</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local/Collector</td>
<td>10'</td>
<td>30'</td>
<td></td>
</tr>
<tr>
<td>Thoroughfare*</td>
<td>15'</td>
<td>30'</td>
<td></td>
</tr>
</tbody>
</table>

* Must provide on-site turnaround

---

**Rev. Date:** 8/1/19

**Std. No. Rev.:** 10.25C 3
NOTES:

1. ALL CONCRETE TO BE 3600 P.S.I.

2. ALL CURB OR CURB AND GUTTER AND SIDEWALKS ARE TO BE REMOVED TO THE NEAREST JOINT BEYOND NEW CONSTRUCTION OR CUT WITH A SAW AND REMOVED. SAW CUT OR JOINT TO BE PERPENDICULAR TO EDGE OF EXISTING PAVEMENT. SEE PLDS 10.179 FOR JOINT DETAIL.

3. ALL DRIVeways MUST MEET THE CURRENT TOWN DRIVEWAY REGULATIONS AND NCDOT REQUIREMENTS FOR SPACING, SIGHT DISTANCE AND OFFSETS FROM PROPERTY LINES AND INTERSECTIONS.

4. "A" BREAKOVER SHALL BE 8% OR LESS (A = ALGEBRAIC DIFFERENCE).

5. PRIOR APPROVAL IS REQUIRED BY TOWN ENGINEER ON GRADES EXCEEDING WHAT ARE SHOWN.

<table>
<thead>
<tr>
<th>DRIVESWAYS CLASSIFICATION</th>
<th>MINIMUM</th>
<th>MAXIMUM</th>
</tr>
</thead>
<tbody>
<tr>
<td>ONE-WAY TYPE II - COMMERCIAL</td>
<td>20'</td>
<td>30'</td>
</tr>
<tr>
<td>TWO-WAY TYPE II - COMMERCIAL</td>
<td>26'</td>
<td>50'</td>
</tr>
</tbody>
</table>

* NEED MORE THAN ONE CONTRACTION JOINT IN CENTER.

TOWN OF PINEVILLE
LAND DEVELOPMENT STANDARDS

COMMERCIAL DROP CURB TYPE II DRIVEWAY WITH PLANTING STRIP (6" X 18" VERTICAL CURB)

NOT TO SCALE

REV. DATE 8/1/19
STD. NO. 10.25D REV. 3
1. ALL CONCRETE TO BE 3600 P.S.I.
2. ALL CURB OR CURB AND GUTTER AND SIDEWALKS ARE TO BE REMOVED TO THE NEAREST JOINT BEYOND NEW CONSTRUCTION OR CUT WITH A SAW AND REMOVED SAW CUT OR JOINT TO BE PERPENDICULAR TO EDGE OF EXISTING PAVEMENT. SEE PLDS 10.17B FOR DETAIL.
3. ALL DRIVEWAYS MUST MEET THE CURRENT TOWN DRIVEWAY REGULATIONS AND NCDOT REQUIREMENTS FOR SPACING, SIGHT DISTANCE AND OFFSETS FROM PROPERTY LINES AND INTERSECTIONS.
4. "A" BREAKOVER SHALL BE 8% OR LESS (A = ALGEBRAIC DIFFERENCE).
5. PRIOR APPROVAL IS REQUIRED BY TOWN ENGINEER ON GRADES EXCEEDING WHAT ARE SHOWN.
6. RADIUS MUST BE MINIMUM 6 FEET OR THE WIDTH OF THE PLANTING STRIP, WHICHERVER IS GREATER. RADIUS GREATER THAN THESE MINIMUMS MAY BE REQUIRED BY TOWN ENGINEER ON A CASE-BY-CASE BASIS. FOR RADII GREATER THAN 6 FEET, THE RADII ARE TO CONTINUE AS A BAND AT-GRADE THROUGH THE SIDEWALK.

TOWN OF PINEVILLE
LAND DEVELOPMENT
STANDARDS

MODIFIED TYPE II DRIVEWAY
WITH PLANTING STRIP
(2'-6" STANDARD CURB)

REV. DATE 8/1/19
STD. NO. REV. 10.25E 3
NOTES:

1. ALL CONCRETE TO BE 3600 P.S.I.

2. ALL CURB OR CURB AND GUTTER AND SIDEWALKS ARE TO BE REMOVED TO THE NEAREST JOINT BEYOND NEW CONSTRUCTION OR CUT WITH A SAW AND REMOVED, SAW CUT OR JOINT TO BE PERPENDICULAR TO EDGE OF EXISTING PAVEMENT. SEE PLS 10.17B FOR JOINT DETAIL.

3. ALL DRIVEWAYS MUST MEET THE CURRENT TOWN DRIVEWAY REGULATIONS AND NCDOT REQUIREMENTS FOR SPACING, SIGHT DISTANCE AND OFFSETS FROM PROPERTY LINES AND INTERSECTIONS.

4. "A" BREAKOVER SHALL BE 8% OR LESS (A = ALGEBRAIC DIFFERENCE).

5. PRIOR APPROVAL IS REQUIRED BY TOWN ENGINEER ON GRADES EXCEEDING WHAT ARE SHOWN.
NOTES:

1. TO BE USED ON ROADS WITHOUT CURB AND GUTTER AND WHERE CURB AND GUTTER IS NOT BEING INSTALLED. (MUST MEET BOTH CRITERIA)

2. ALL CONCRETE TO BE 3600 P.S.I. COMpressive STRENGTH.

3. USE OF THIS STANDARD FOR RESIDENTIAL DRIVEWAY CONSTRUCTION AT THE DISCRETION OF THE TOWN ENGINEER ONLY.

SECTION A-A

DRIVEWAY WIDTH

<table>
<thead>
<tr>
<th>DRIVEWAY TYPE</th>
<th>MINIMUM</th>
<th>MAXIMUM</th>
</tr>
</thead>
<tbody>
<tr>
<td>ONE-WAY</td>
<td>20'</td>
<td>30'</td>
</tr>
<tr>
<td>TWO-WAY</td>
<td>26'</td>
<td>50'</td>
</tr>
</tbody>
</table>

DRIVEWAY CULVERT WITH HEADWALL OR FES
* NCDOT TO APPROVE ON NCDOT SYSTEM ROAD.

PLAN

MIN. 4" WIDE SIDEWALK, 6" THICKNESS THROUGH DRIVEWAY
MINIMUM 1"-6" CURB AND GUTTER (SEE PLOTS 10.17A & B)

NOT TO SCALE
GENERAL NOTES:
ALL CONCRETE TO BE 3600 P.S.I. COMpressive STRENGTH.
A 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE WHERE THE SIDEWALK JOINS ANY RIGID STRUCTURE.
SEE PLS10.22.
THIS DETAIL TO BE USED ONLY IN CONJUNCTION WITH MONOLITHIC SIDEWALK AS ON PLS10.23

NOTE:
ALL DRIVEWAYS MUST MEET THE CURRENT TOWN DRIVEWAY REGULATIONS AND NCDOT REQUIREMENTS FOR SPACING, SIGHT DISTANCES, AND OFFSETS FROM PROPERTY LINES AND INTERSECTIONS.

<table>
<thead>
<tr>
<th>TYPE OF DRIVEWAY</th>
<th>MINIMUM</th>
<th>MAXIMUM</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESIDENTIAL:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LOCAL/COLLECTOR</td>
<td>10'</td>
<td>30'</td>
</tr>
<tr>
<td>THOROUGHFARE*</td>
<td>15'</td>
<td>30'</td>
</tr>
<tr>
<td>COMMERCIAL:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ONE-WAY TYPE III</td>
<td>20'</td>
<td>30'</td>
</tr>
<tr>
<td>TWO-WAY TYPE III</td>
<td>26'</td>
<td>50'</td>
</tr>
<tr>
<td>* MUST PROVIDE ON-SITE TURNAROUND</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

TOWN OF PINEVILLE
LAND DEVELOPMENT
STANDARDS

DROP CURB DRIVEWAY
MONOLITHIC CONCRETE CURB AND SIDEWALK

REVIEWED
10.26

NOT TO SCALE
TOWN OF PINEVILLE
LAND DEVELOPMENT
STANDARDS

NOTES:

1. THE ELEVATION OF THE SIDEWALK SHALL BE NOT LESS THAN SIX INCHES OR MORE THAN EIGHTEEN INCHES ABOVE THE ROADWAY CROWN. THIS ELEVATION DIFFERENTIAL SHALL BE CONSISTENT WITHIN EACH BLOCK.

2. ALL CONCRETE TO BE 3600 PSI STRENGTH.

3. ALL CONSTRUCTION PRACTICES, INCLUDING COMPACTATION, CURING, FINISHING, ETC. SHALL BE IN ACCORDANCE WITH THE THESE LAND DEVELOPMENT STANDARDS.

4. PLANTING STRIP SHALL BE GRADED WITH A CROSS SLOPE BETWEEN 1/2 IN. PER FOOT AND 1 1/4 IN. PER FOOT EXCEPT WHERE EXCESSIVE NATURAL GRADES MAKE THIS REQUIREMENT IMPractical. IN SUCH CASES, THE TOWN ENGINEER MAY AUTHORIZE A SUITABLE GRADE.

5. ALL DRIVEWAYS MUST MEET THE CURRENT TOWN DRIVEWAY REGULATIONS AND NC DOt REQUIREMENTS, INCLUDING BUT NOT LIMITED TO SPACING, SIGHT DISTANCE, AND OFFSETS FROM PROPERTY LINES AND INTERSECTIONS.


<table>
<thead>
<tr>
<th>TYPE I - RESIDENTIAL:</th>
<th>X</th>
<th>Y</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOCAL/COLLECTOR THOROUGHFARE *</td>
<td>10' MIN.</td>
<td>30' MAX. **</td>
</tr>
<tr>
<td></td>
<td>15' MIN.</td>
<td>30' MAX. **</td>
</tr>
</tbody>
</table>

* MUST PROVIDE ON-SITE TURNDOWN
** MAXIMUM WIDTH INCLUDES OPTIONAL WINGS

Pineville
NORTH CAROLINA

RESIDENTIAL DRIVEWAY (TYPE I) FOR 2'-0" VALLEY GUTTER
SECTION B-B

NOTES:

1. THE ELEVATION OF THE SIDEWALK SHALL BE NOT LESS THAN SIX INCHES OR MORE THAN EIGHTEEN INCHES ABOVE THE ROADWAY CROWN. THIS ELEVATION DIFFERENTIAL SHALL BE CONSISTENT WITHIN EACH BLOCK.

2. ALL CONCRETE TO BE 3600 PSI STRENGTH.

3. ALL CONSTRUCTION PRACTICES, INCLUDING COMPACTION, CURING, FINISHING, ETC. SHALL BE IN ACCORDANCE WITH THESE LAND DEVELOPMENT STANDARDS.

4. PLANTING STRIP SHALL BE GRADED WITH A CROSS SLOPE BETWEEN 1/2 IN. PER FOOT AND 1 1/4 IN. PER FOOT EXCEPT WHERE EXCESSIVE NATURAL GRADES MAKE THIS REQUIREMENT IMPractical. IN SUCH CASES, THE TOWN ENGINEER MAY AUTHORIZE A SUITABLE GRade.

5. ALL DRIVEWAYS MUST MEET THE CURRENT TOWN DRIVEWAY REGULATIONS AND NCDOT REQUIREMENTS, INCLUDING BUT NOT LIMITED TO SPACING, HEIGHT, DISTANCE, AND OFFSETS FROM PROPERTY LINES AND INTERSECTIONS.


7. PRIOR APPROVAL IS REQUIRED BY THE TOWN ENGINEER ON GRADES EXCEEDING WHAT ARE SHOWN.

<table>
<thead>
<tr>
<th>DRIVEWAY WIDTH</th>
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</tr>
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<tbody>
<tr>
<td></td>
<td>ONE-WAY TYPE II COMMERCIAL</td>
<td>20'</td>
<td>30'</td>
</tr>
<tr>
<td></td>
<td>TWO-WAY TYPE II COMMERCIAL</td>
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</tbody>
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* MUST PROVIDE ON-SITE TURNAROUND

TOWN OF PINEVILLE
LAND DEVELOPMENT STANDARDS

COMMERCIAL TYPE II DRIVEWAY
FOR 2'-0" VALLEY GUTTER

REV. DATE
8/1/19
STD. NO. REV.
10.27B 3
NOTES:

1. WHERE A TYPE III DRIVEWAY IS APPROVED BY THE TOWN ENGINEER THAT CONNECTS TO AN EXISTING SIGNALIZED INTERSECTION, OR AT A LOCATION WHERE A TRAFFIC SIGNAL INSTALLATION IS PROPOSED BY BASED ON A TRAFFIC IMPACT/SIGNAL WARRANT STUDY, A FULL DEPTH ASPHALT PAVEMENT (2-1/2" 5-9.5 B/C AND 6" 9-25.0 B/C) IS REQUIRED. THIS PAVEMENT DESIGN IS REQUIRED IN THE DRIVEWAY EASEMENT (100-FOOT MINIMUM) TO MAINTAIN DETECTOR LOOPS AND PAVEMENT MARKINGS.

2. A CONCRETE GUTTER IS TO BE USED EXCEPT AT EXISTING OR PROPOSED TRAFFIC SIGNAL LOCATIONS. AT THESE LOCATIONS ADDITIONAL DRAINAGE REQUIREMENTS WILL BE NECESSARY TO ELIMINATE THE NEED FOR GUTTER ACROSS THE DRIVEWAY CONNECTIONS.

3. THE DRIVEWAY MUST RISE 6" FROM THE GUTTER LINE TO PREVENT RUNOFF FROM ENTERING DRIVEWAY.

4. ALL DRIVEWAYS MUST MEET THE CURRENT TOWN/ NC DOT DRIVEWAY REGULATIONS FOR SPACING, SIGHT DISTANCE, AND OFFSETS FROM PROPERTY LINES AND INTERSECTIONS.

5. TWO (2) ACCESSIBLE RAMPS PER CURB RETURN REQUIRED AT SIGNALIZED INTERSECTIONS.

* FOUR (4) FOOT GUTTER AND WINGS WILL NOT BE REQUIRED TO DIRECT WATER ACROSS DRIVE IF THE DRIVEWAY GUTTER SLOPE IS GREATER THAN 2%. 

TRANSITION CONCRETE DEPTH FROM 7" AT UP TO 10" AT CONCRETE GUTTER CONSTRUCTION JOINT IF NO ASPHALT BASE INSTALLED. IF ASPHALT BASE IS USED, 7" CONCRETE DEPTH CAN BE CARRIED THROUGH THE CONCRETE GUTTER.
NOTE:
TRANSITION FROM 2'-6" STANDARD CURB TO VALLEY CURB
AT A DRAINAGE INLET ONLY.
*SEE PDS 10.19 FOR CROSS SECTION GEOMETRY.
NOTE:

1. WHERE 2'-6" CURB AND GUTTER IS USED, CATCH BASINS MAY BE LOCATED AT END OF RADIUS.

2. RADIUS AT INTERSECTION MAY VARY.
PLAN VIEW-DIAGONAL RAMP WITH PLANTING STRIP

NOTE:
TRUNCATED DOMES COLORED PER PLDS 10.35B

PLAN VIEW-PARALLEL RAMP
WITH PLANTING STRIP

NOTE:
TRUNCATED DOMES COLORED PER PLDS 10.35B

PLAN VIEW-DIAGONAL RAMP WITH PLANTING STRIP

SLOPE "A" 12:1
SLOPE "B" 1/4"/FT
SLOPE "D" 3/8"/FT

TOWN OF PINEVILLE
LAND DEVELOPMENT
STANDARDS
ACCESSIBLE RAMP STANDARD WITH
PLANTING STRIP (2'-6" CURB AND GUTTER)
TOWN OF PINEVILLE
LAND DEVELOPMENT
STANDARDS

ACCESSIBLE RAMP STANDARD WITHOUT PLANTING STRIP (2'-6" CURB AND GUTTER)

NOT TO SCALE

SLOPE "A" 12:1
SLOPE "B" 1/4"/FT
SLOPE "C" 5/8"/FT

PLAN VIEW-PARALLEL RAMP WITHOUT PLANTING STRIP

PLAN VIEW-DIAGONAL RAMP WITHOUT PLANTING STRIP

NOTE:
TRUNCATED DOMES COLORED PER PLDS 10.35B
NOTE:
ALL WALKS MUST BE A MIN. 6' WIDTH AT RAMPS.

EXISTING WALK 1/4" PER FOOT

SIDEWALK (BEYOND) - SLOPE 1/4" PER FOOT

ACCESSIBLE RAMP SLOPE NOT TO EXCEED 12:1

INSTALL GEOGRID 1100 (MIN) & COMPACT SUBGRADE TO 100% STANDARD PROCTOR.
MIN. 4'-0" CONTINUOUS PASSAGE

TYPICAL RAMP SECTION

TOWN OF PINEVILLE LAND DEVELOPMENT STANDARDS
ACCESSIBLE RAMP SECTIONS WITHOUT PLANTING STRIP (2-6" CURB AND GUTTER)
PLAN VIEW-PARALLEL
RAMP WITH PLANTING STRIP

PLAN VIEW-DIAGONAL RAMP
WITH PLANTING STRIP

SLOPE "A" 12:1
SLOPE "B" 1/4"/FT

NOT TO SCALE

TOWN OF PINEVILLE
LAND DEVELOPMENT
STANDARDS

ACCESSIBLE RAMP STANDARD
(2-0" VALLEY GUTTER)
SECTION THROUGH FLOWLINE

BACK OF WALK
BACK OF GUTTER (VARIABLE SLOPE NOT TO EXCEED 12:1)
FLOWLINE

2'-3"  4'-0"  2'-3"

SECTION THROUGH FLOWLINE

EXISTING WALK 1/4" PER FOOT
ACCESSIBLE RAMP SLOPE NOT TO EXCEED 12:1

INSTALL GEOGRID 1100 (MIN) & COMPACT SUBGRADE TO 100% STANDARD PROCTOR

4'-0"  4'-0"  1'-5 1/2"

TYPICAL RAMP SECTION

NOT TO SCALE
PLAN VIEW-PARALLEL RAMP

PROVIDE 5' LONG TRANSITION TO 6' WIDE WALK. ALL WALKS MUST BE A MIN. 6' WIDTH AT RAMP.

PLAN VIEW-DIAGONAL RAMP

NOTE:
TRUNCATED DOMES COLORED PER PLDS 10.35B

SLOPE "A" 12:1
SLOPE "B" 1/4'/FT
SLOPE "C" 1/2'/FT

TOWN OF PINEVILLE
LAND DEVELOPMENT
STANDARDS

ACCESSIBLE RAMP STANDARD
MONOLITHIC CURB AND SIDEWALK

REV. DATE

STD. NO. REV.
10.34A
TOWN OF PINEVILLE
LAND DEVELOPMENT STANDARDS

ACCESSIBLE RAMP SECTIONS
MONOLITHIC CURB AND SIDEWALK

SECTION X-X

1/2" THICK PIECES BITUMINOUS FIBER REQUIRED IF PAVEMENT IS CONCRETE

3'-4"

4'-0" MIN. CONTINUOUS PASSAGE

GROOVE JOINT

SIDEWALK (BEYOND) - SLOPE 1/4" PER FOOT

SLOPE 1/4" PER FOOT

INSTALL GEOGRID 1100 (MIN) & COMPACT SUBGRADE TO 100% STANDARD PROCTOR

3" R

8"

8"
NOTES:
1. RAMP AND WING SLOPES SHALL NOT BE STEEPER THAN 12:1.
2. GUTTER FLOW LINE AND PLAN PROFILE SHALL BE MAINTAINED THROUGH THE RAMP AREA.
3. THE SURFACE OF THE RAMP SHALL BE FLUSH WITH THE FLOWLINE OF THE CURB AND GUTTER.
5. THE WING AND RAMP SURFACES SHALL BE 3600 PSI CONCRETE WITH A SIDEWALK FINISH IN ACCORDANCE WITH CURRENT EDITION NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.
6. DRAINAGE STRUCTURES, MAST ARMS, LIGHT POLES AND OTHER OBSTRUCTIONS SHALL NOT BE PLACED IN LINE WITH RAMPS. LOCATION OF THE RAMP SHALL TAKE PRECEDENCE OVER LOCATION OF OBSTRUCTIONS EXCEPT WHERE EXISTING OBSTRUCTIONS ARE BEING UTILIZED IN THE NEW CONSTRUCTION.
7. AT ALL LOCATIONS, NOT LESS THAN 2 FEET OF FULL HEIGHT CURB SHALL BE PLACED BETWEEN THE RAMPS.
8. SEE PLDS 10.35B FOR DETECTABLE WARNING INSTALLATION.

TYPICAL LOCATION OF ACCESSIBLE RAMPS AND PEDESTRIAN CROSSWALKS ON THOROUGHFARES/SIGNALIZED INTERSECTIONS
SEE NCDOT STANDARD DRAWINGS

NOT TO SCALE
NOTES:

1. All detectable warning devices used in new construction shall be of a rigid precast or embedded product approved by the town engineer. Retro fit mats will only be allowed on existing ramps with prior approval of the town engineer for material type and installation (i.e. resurfacing).

2. Width of detectable warning area shall be a minimum of 4 feet and vary with width of ramp.

3. Length of detectable warning area shall be 2 feet regardless of section width.

4. Detectable warning area can be square where used in a curb radius.

5. Detectable warning domes shall be aligned on a square grid in the predominant direction of travel to permit wheels to roll between domes.

6. Detectable warning area shall be colored black.

7. If pavers are to be used, pavers shall be 6" thick and cast from 5000 psi concrete.

8. Mats are to be rigid with turn down edges embedded in concrete to eliminate trip hazard.

TRUNCATED DOME PLAN VIEW

TRUNCATED DOME SPACING

TRUNCATED DOME SECTION
NOTES:

1. SEE PLDS. 10.36B FOR GENERAL NOTES AND CLEAR ZONE DISTANCES

2' - 6" CURB AND GUTTER, PLDS 10.17A

SAFETY RAIL, PLDS 50.04A & 50.04B

4' - 0" SIDEWALK, PLDS 10.22

2' - 0" VALLEY GUTTER, PLDS 10.17B

CURB TRANSITION 2' - 6" CURB AND GUTTER TO 2' - 0" VALLEY GUTTER, PLDS 10.19

LH = DISTANCE FROM END OF WINGWALL TO END OF SAFETY RAIL.

LC1 = DISTANCE FROM C OF CULVERT TO END OF 2' - 6" CURB AND GUTTER GUTTER.

LC2 = DISTANCE FROM END OF WINGWALL TO END OF 2' - 6" CURB AND GUTTER.
GENERAL NOTES:

1. UNLESS OTHERWISE DETERMINED BY THE TOWN ENGINEER, THE MEASURES ILLUSTRATED SHALL BE USED WHEN CULVERT DIAMETER, D, IS GREATER THAN OR EQUAL TO 24 INCHES AND WHEN THE DIFFERENCE IN ELEVATION BETWEEN THE CULVERT INVERT AND THE TOP OF SLOPE, H, IS GREATER THAN OR EQUAL TO 5 FEET.

2. INSTALLATION OF 2'-6" CURB AND GUTTER MAY NOT BE REQUIRED WHEN AN ADEQUATE CLEAR ZONE IS PROVIDED FOR VEHICLES WITH A MAXIMUM OF 6:1 SLOPE (SEE TABLE 1).

3. INSTALLATION OF SAFETY RAIL MAY NOT BE REQUIRED WHEN A 10-FOOT PEDESTRIAN CLEAR ZONE IS PROVIDED BEHIND THE SIDEWALK WITH A MAXIMUM OF 6:1 SLOPE. WHERE NO SIDEWALK IS REQUIRED, INSTALLATION OF SAFETY RAIL MAY NOT BE REQUIRED WHEN A 15-FOOT PEDESTRIAN CLEAR ZONE IS PROVIDED BEHIND THE CURB WITH A MAXIMUM OF 6:1 SLOPE.

4. FOR CULVERT CROSSINGS WITHOUT ENDWALLS, LH AND LC2 SHALL BE MEASURED FROM THE OUTSIDE OF THE NEAREST WALL OF THE CULVERT BARREL.

5. FOR MULTIPLE BARREL CULVERT CROSSINGS, LC1 SHALL BE MEASURED FROM THE CENTERLINES OF THE OUTBOARD CULVERT BARRELS.

6. WHEN NECESSARY, AS DETERMINED BY THE TOWN ENGINEER, ADDITIONAL MEASURES MAY BE REQUIRED.

7. INSTALLATION OF SAFETY RAIL IS REQUIRED ON BOTH SIDES OF STREET IF SIDEWALK IS REQUIRED ON BOTH SIDES.

8. INSTALLATION OF SAFETY RAIL IS REQUIRED ON BOTH SIDES OF STREET IF NO SIDEWALK IS REQUIRED EXCEPT WHEN A 15-FOOT PEDESTRIAN CLEAR ZONE IS PROVIDED BEHIND THE CURB WITH A MAXIMUM OF 6:1 SLOPE.

9. INSTALLATION OF SAFETY RAIL IS REQUIRED ON THE SIDEWALK SIDE OF STREET IF SIDEWALK IS ONLY REQUIRED ON ONE SIDE OF STREET. INSTALL EITHER SAFETY RAIL OR 15-FT CLEAR ZONE ON SIDE WITHOUT SIDEWALK.

10. DESIGN ADT IS CALCULATED ASSUMING A TRIP GENERATION OF 10 DAILY TRIPS PER SINGLE FAMILY DWELLING UNIT.

### TABLE 1
CLEAR ZONE DISTANCES
LOCAL, COLLECTOR, AND COMMERCIAL STREETS

<table>
<thead>
<tr>
<th>DESIGN ADT</th>
<th>CLEAR ZONE FROM EDGE OF PAVEMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TANGENT SECTION</td>
</tr>
<tr>
<td>UNDER 750</td>
<td>10'</td>
</tr>
<tr>
<td>750 - 1500</td>
<td>12'</td>
</tr>
<tr>
<td>1501 - 6000</td>
<td>14'</td>
</tr>
<tr>
<td>OVER 6000</td>
<td>16'</td>
</tr>
</tbody>
</table>

SEE PLDS 10.36A FOR PLAN AND CROSS SECTIONAL SCHEMATICS.
GENERAL NOTES:

1. ALL TAPERS ARE 20:1 AND OCCUR ON BOTH SIDES OF THE ROAD TO BE TAPERED STARTING AT THE RADIUS RETURN AFTER THE INTERSECTION.
2. CENTERLINE OF LOCAL RESIDENTIAL STREETS ARE TO BE MAINTAINED. NO SHIFTING OF THE CENTERLINE SHALL OCCUR.
3. RIGHT OF WAY AND SIDEWALK BEHIND TAPERED STREET SECTION TO TAPER OVER THE SAME STREET TAPER LENGTH.
4. DETAIL ALSO APPLIES FOR ALL LOW TRAFFIC, LOW SPEED RESIDENTIAL STREETS.
NOTES:
1. USE THIS DETAIL ONLY UNDER THE FOLLOWING CIRCUMSTANCES:
   A  5-FOOT SIDEWALKS WITH CURB RADII OF 35 FEET OR LESS
   B  6-FOOT SIDEWALKS WITH CURB RADII OF 30 FEET OR LESS
   C  8-FOOT SIDEWALKS WITH CURB RADII OF 25 FEET OR LESS
2. DIRECTIONAL RAMPS MAY BE USED WHEN AN 8-FOOT PLANTING STRIP IS PROVIDED. DO NOT USE THIS DETAIL IF THERE IS HARDSCAPE INSTEAD OF A PLANTING STRIP.
3. ALL CONCRETE SHALL BE AT LEAST 3600 PSI.

SECTION A-A

CURB DETAIL

TOP OF CONCRETE CURB

1/2" EXPANSION JOINT

SEE CURB DETAIL BELOW

INSTALL GEOGRID 1100 (MIN) & COMPACT SUBGRADE TO 100% STANDARD PROCTOR

12:1 SLOPE (INCLUDES DETECTABLE WARNING)

1/2" EXPANSION JOINT (TYP.)

CONSTRUCTION JOINT (TYP.)

NOT TO SCALE
NOTES:

1. USE THIS DETAIL ONLY UNDER THE FOLLOWING CIRCUMSTANCES:
   - A 5'-FOOT SIDEWALKS WITH CURB RADIUS GREATER THAN 35 FEET
   - B 6'-FOOT SIDEWALKS WITH CURB RADIUS GREATER THAN 30 FEET
   - C 8'-FOOT SIDEWALKS WITH CURB RADIUS GREATER THAN 25 FEET

2. DIRECTIONAL RAMPS MAY BE USED WHEN A MIN. 8'-FOOT PLANTING STRIP IS PROVIDED. DO NOT USE THIS DETAIL IF THERE IS HARDSCAPE INSTEAD OF A PLANTING STRIP.

3. ALL CONCRETE SHALL BE AT LEAST 3600 PSI.


5. THE TRUNCATED DOME PATTERN MUST ALIGN WITH THE SIDEWALK TO ALLOW WHEELCHAIRS TO PASS FREELY. DO NOT ALIGN DOME PATTERN WITH THE CURB RADIUS.

SECTION A-A

CURB DETAIL

TOP OF CONCRETE CURB

1/2" EXPANSION JOINT

VARES 6" TO 5.5"

2% MAX. SLOPE

SEE CURB DETAIL BELOW

INSTALL GEOGRID 1100 (MIN.) & COMPACT SUBGRADE TO 100% STANDARD PROCTOR

NOT TO SCALE
NOTES:

1. USE THIS DETAIL ONLY UNDER THE FOLLOWING CIRCUMSTANCES:
   - 5'-FOOT SIDEWALKS WITH CURB RADIUS OF 35 FEET OR LESS
   - 6'-FOOT SIDEWALKS WITH CURB RADIUS OF 30 FEET OR LESS
   - 8'-FOOT SIDEWALKS WITH CURB RADIUS OF 25 FEET OR LESS

2. IF CURB RADIUS EXCEEDS THOSE LISTED ABOVE, REFER TO PLODS 10.40B FOR DETECTABLE WARNING SURFACE MAT PLACEMENT.

3. ALL CONCRETE SHALL BE AT LEAST 3600 PSI.

4. ENSURE Flush CONDITIONS AT RAMP TO GUTTER TRANSITION.

5. SIDEWALK TRANSITION PANEL: PREFERRED 1.5% (2.0% MAX) IN ALL DIRECTIONS IN FRONT OF GRADE BREAK AND DRAIN TO FLOW LINE. RUNNING SLOPE OF THIS AREA MUST NOT EXCEED 2%. CROSS-SLOPE MAY MATCH STREET GRADE AT BACK OF CURB WHEN STREET GRADE >2%. TRANSITION TO 1.5% (2.0% MAX) CROSS-SLOPE AT TOE OF RAMP.

NOT TO SCALE
**DRIVEWAY DIMENSIONS**

<table>
<thead>
<tr>
<th>OPERATION/RADIUS</th>
<th>MINIMUM</th>
<th>MAXIMUM</th>
</tr>
</thead>
<tbody>
<tr>
<td>ONE-WAY WITH 8-12 FT. RADII</td>
<td>20'</td>
<td>30'</td>
</tr>
<tr>
<td>ONE-WAY WITH 13+ FT. RADII</td>
<td>15'</td>
<td>25'</td>
</tr>
<tr>
<td>TWO-WAY WITH 8-12 FT. RADII</td>
<td>26'</td>
<td>50'</td>
</tr>
<tr>
<td>TWO-WAY WITH 13+ FT. RADII</td>
<td>22'</td>
<td>40'</td>
</tr>
</tbody>
</table>

**NOTES:**

1. ALL CONCRETE TO BE 4000 P.S.I.

2. ALL CURB OR CURB AND GUTTER AND SIDEWALKS ARE TO BE REMOVED TO THE NEAREST JOINT BEYOND NEW CONSTRUCTION OR CUT WITH A SAW AND REMOVED. SAW CUT OR JOINT TO BE PERPENDICULAR TO EDGE OF EXISTING PAVEMENT. SEE PLDS 10.17B FOR JOINT DETAIL.

3. ALL DRIVEWAYS MUST MEET THE CURRENT TOWN DRIVEWAY REGULATIONS AND NCDOT REQUIREMENTS FOR SPACING, SIGHT DISTANCE AND OFFSETS FROM PROPERTY LINES AND INTERSECTIONS.

4. "A" BREAKOVER SHALL BE 8% OR LESS (A = ALGEBRAIC DIFFERENCE).

5. PRIOR APPROVAL IS REQUIRED BY TOWN ENGINEER ON GRADES EXCEEDING WHAT ARE SHOWN.

6. CONCRETE SHALL BE PLACED ON 8" ABC STONE WITH STONE AND SUBGRADING COMPACTED TO 95% DENSITY.

7. CONCRETE APRON AND DRIVEWAY SHALL BE PLACED ON 8" ABC STONE. CONCRETE DRIVEWAY SHALL EXTEND MINIMUM 7.5" FROM BACK OF APRON. SEE SECTION IA AND ID OF THE PLDS SPECIFICATIONS FOR COMPACTATION REQUIREMENTS.

8. ANY PROPOSED VARIATIONS WILL BE REVIEWED ON A CASE BY CASE BASIS BY TOWN STAFF. AN ALTERNATE PAVEMENT DESIGN MAY BE REQUIRED BY THE TOWN BASED ON SPECIFIC PARAMETERS.

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**TOWN OF PINEVILLE**  
**LAND DEVELOPMENT STANDARDS**

**HEAVY INDUSTRIAL DRIVEWAY**  
**WITHOUT PLANTING STRIP**

**REV. DATE**  2/29/20  
**STD. NO.**  10.41A  
**REV.**  4
## Driveway Dimensions

<table>
<thead>
<tr>
<th>Operation/Radius</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>One-Way With 6-12 Ft. Radii</td>
<td>26'</td>
<td>50'</td>
</tr>
<tr>
<td>One-Way With 13+ Ft. Radii</td>
<td>28'</td>
<td>50'</td>
</tr>
<tr>
<td>Two-Way With 6-12 Ft. Radii</td>
<td>26'</td>
<td>50'</td>
</tr>
<tr>
<td>Two-Way With 13+ Ft. Radii</td>
<td>28'</td>
<td>40'</td>
</tr>
</tbody>
</table>

## Notes:
1. All concrete to be 4000 P.S.I.
2. All curb or curb and gutter and sidewalks are to be removed to the nearest joint beyond new construction or cut with a saw and removed. Saw cut or joint to be perpendicular to edge of existing pavement. See PUD 10.17B for joint detail.
3. All driveways must meet the current town driveway regulations and NCDOT requirements for spacing, sight distance and offsets from property lines and intersections.
4. "A" breakover shall be 8% or less (A = algebraic difference).
5. Prior approval is required by town engineer on grades exceeding what are shown.
6. Radii must be minimum 6 feet or the width of the planting strip, whichever is greater. Radii greater than these minimums may be required by town engineer on a case-by-case basis. For radii greater than 6 feet, the radii are to continue as a band at grade through the sidewalk.
7. Concrete apron and driveway shall be placed on 8" ABC stone. Concrete driveway shall extend minimum 75" from back of apron. See Section 1A and 1D of the PUDS specifications for classification requirements.
8. Proposed variations will be reviewed on a case by case basis by town staff. An alternative pavement design may be required by the town based on specific parameters.

## PLAN VIEW

- Top of curb
- Front edge of walk
- Driveway width varies (see table)

### Section A-A (Along Flow Line)

- "A" see Note 4
- Front edge of walk
- 6" (min) sidewalk
- 6" across planter
- 6" (min) across planter
- 1/4" ft.
- +6% "A"

### Section B-B

- Not to scale

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**TOWN OF PINEVILLE**

**LAND DEVELOPMENT STANDARDS**

**HEAVY INDUSTRIAL DRIVEWAY WITH PLANTING STRIP (2'-6" STANDARD CURB)**

**REV. DATE**

2/29/20

**STD. NO.**

10.41B 4
TOWN OF PINEVILLE
LAND DEVELOPMENT
STANDARDS

TEMPORARY TURNAROUND
LOCAL RESIDENTIAL STREET
(OPTIONAL)

NOTES

1. TEMPORARY TURNAROUND MATERIAL SHALL BE MIN. 3600 PSI CONCRETE, 8" THICK.

2. TEMPORARY INSTALLATION ONLY – TO BE REMOVED WHEN FUTURE DEVELOPMENT CONNECTS TO STREET. "SIDEWALK" PORTION OF TURNAROUND MAY BE LEFT IN PLACE IF NOT DAMAGED.

3. NOT TO BE USED AS A PRIVATE DRIVEWAY.

4. DEAD END STREET BARRICADE AND END OF ROADWAY MARKER PER PLDSM #50.07A&B AND #50.08A, B, & C ARE REQUIRED.

NOT TO SCALE

REV. DATE
4/2/21
STD. NO. REV.
10.50 5
NOTES:

1. HAMMERHEAD DETAILS APPLY ONLY FOR TWO-WAY ALLEYS. ONE-WAY ALLEYS MUST CONNECT TO A PUBLIC STREET OR ANOTHER ALLEY.

2. FOR INTERSECTIONS WITH A LEAST ONE (1) ONE-WAY ALLEY, THE BACK-OF-CURB TO BACK-OF-CURB WIDTH CAN BE 16 FEET ON THE APPROPRIATE LEG(S) INSTEAD OF THE 20 FEET SHOWN.

3. OTHER INTERSECTION DESIGNS WILL BE APPROVED BY THE TOWN ON A CASE-BY-CASE BASIS.

4. THIS DETAIL DOES NOT ACCOMMODATE COMMERCIAL VEHICLES OR CHARLOTTE FIRE DEPARTMENT DESIGN FIRE TRUCK.

5. ADEQUATE STOPPING SIGHT DISTANCE (SSD) SHALL BE PROVIDED AT EACH INTERSECTION. MINIMUM SSD SHALL BE 50 FEET ASSUMING AN OPERATIONAL SPEED OF 10 MPH.