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Introduction

The purpose of this package is to aid developers and designers to understand the minimum design standards for work within the City of Decatur. You will find in this publication a collection of design guidelines that will assist you in designing projects within the City of Decatur.

For additional information contact:

City of Decatur Engineering Department
2635 Talley Street
Decatur, Georgia 30031
tel: 404-371-4104

Development Department
City of Decatur
P.O. Box 220
509 North McDonough Street
Decatur, Georgia 30031
tel: 404-370-4104
Accessibility

Handicap Ramp and Detectable Warning Surface

ACCEPTABLE ADA RAMPS:

GDOT ENGLISH CONSTRUCTION DETAIL A3 TYPES A, B, AND D. CONCRETE FOR RAMPS SHALL BE A MINIMUM THICKNESS OF 4 INCHES AND A MINIMUM THICKNESS OF 8 INCHES AT INTERSECTIONS.

SEE GDOT ENGLISH CONSTRUCTION DETAIL A3 FOR DETAILS OF RAMPS AND THEIR LOCATIONS AT INTERSECTIONS

DETECTABLE WARNING SURFACES ARE REQUIRED ON ALL INTERSECTIONS WITH PUBLIC STREETS, SIGNALIZED COMMERCIAL DRIVEWAYS, AND COMMERCIAL DRIVEWAYS WITH AN AADT OF 25 VEHICLES/DAY

DETECTABLE WARNING SURFACE:

DETAIL:
SEE GDOT ENGLISH CONSTRUCTION DETAIL A4

SIZE:
DETECTABLE WARNINGS SHALL BE 24 INCHES (610 mm) IN THE DIRECTION OF PEDESTRIAN TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE.

LOCATION:
THE DETECTABLE WARNING SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE OR OTHER POTENTIAL HAZARD IS 6 TO 8 INCHES (150 mm TO 180 mm) FROM THE CURB LINE OR OTHER POTENTIAL HAZARD, SUCH AS A REFLECTIVE POOL EDGE OR THE DYNAMIC ENVELOPE OF RAIL OPERATIONS.

DOME SIZE AND SPACING:
TRUNCATED DOMES SHALL HAVE A BASE DIAMETER OF 0.9 INCH TO 1.4 INCH (23 mm-36 mm) AT THE BOTTOM, A DIAMETER OF 0.45 INCH TO 0.9 INCH (11mm-23 mm) AT THE TOP, THE TOP DIAMETER SHALL BE A MINIMUM OF 50% AND A MAXIMUM OF 65% OF THE BASE DIAMETER, A HEIGHT OF 0.2 INCH (5.11 mm) AND A CENTER-TO-CENTER SPACING OF 2.40 INCHES (61mm) DESIRABLE 1.60 INCHES (41 mm) MINIMUM MEASURED ALONG ONE SIDE OF A SQUARE ARRANGEMENT. DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.

VISUAL CONTRAST:
DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH THE ADJACENT WALKING SURFACE EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE VISUAL CONTRAST SHALL BE AN INTEGRAL PART OF THE DETECTABLE WARNING SURFACE.

MATERIALS:
SOURCE: ADA SOLUTIONS, P.O. BOX 3 N. BILLERICA, MA 01862
NEW CONSTRUCTION:
ADA COMPOSITE REPLACEABLE CAST IN PLACE (WET SET) OR APPROVED EQUAL.
RETROFIT:
ADA DETECTABLE WARNING TILE OR APPROVED EQUAL.

INSTALLATION:
INSTALL IN ACCORDANCE WITH MANUFACTURER’S SPECIFICATIONS AS INDICATED ON GDOT ENGLISH CONSTRUCTION DETAIL A4.
Handicap Parking Space Striping

**ACCESSIBLE ROUTE (MIN. 48" WIDTH)**

- Edge of pavement
- 6' wheel stop (if required)
- 4" painted blue stripe (typ.)
- 4" painted white stripe (typ.)
- 4' x 4' white square background
- International blue symbol

**NOTE:**

1. Striping and construction shall conform to all applicable federal, state and city of Decatur codes and specifications.

2. All pavement markings and striping in the right-of-way shall be thermoplastic.
Accessibility

Handicap Sign Placement

ADA APPROVED HANDICAP PARKING SIGN, SEE STANDARD 203

2" DIAMETER TUBULAR STEEL POST, SATIN FINISH

ASPHALT PARKING SURFACE

CONCRETE WALK (TYP)

CONCRETE FOOTING

COMPACTED SUBGRADE

1/2" EXPANSION JOINT WHERE SIGN MOUNTED IN CONC. WALK (TYP)

5'-0" FOR AUTO

7'-0" FOR VAN

2'-0" MIN

8" MIN

NOTE:

SIGNAGE SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND CITY OF DECATUR CODES AND SPECIFICATIONS
Accessibility
Handicap Parking Sign

Handicap Parking Sign

1. All signs to be 0.080" thick aluminum.
2. All signs shall conform with all current A.D.A. federal, state, and local codes & regulations.
3. Place "Van Accessible" sign in front of van accessible spaces only.
Paving

General Notes

Minimum design standards shall meet Georgia Department of Transportation (GDOT) standard specifications and details for both public and private infrastructure, unless otherwise specified in the following details. Also, refer to City of Decatur Streetscape Guidelines for all public infrastructure requirements within right-of-ways.
NOTES:
1. 1/4" DUMMY JOINTS IN SIDEWALK - SPACING EQUAL TO WIDTH OF SIDEWALK.
2. 1/2" PREMOULDED EXPANSION JOINT IN SIDEWALKS AT MAXIMUM SPACING OF 40'-0".
Paving
Standard Concrete Curb

CONCRETE CURB,
GA DOT STANDARD

TYP 1/2" EJ.

CONCRETE SIDEWALK
4" DEPTH TYP.

1/2" EXPANSION JOINT AT
BUILDING FACE SEE EXPANSION
JOINT DETAIL (STD. 304)

COMPACTED SUBGRADE

ASPHALT PAVING

R-1"

5"

6"

1'-2"

6"
Street Patch Detail at Curb

- NEW CURB (STD. 301)
- 2" ASPHALT TOPPING - TYPE 'E' (FEATHER ASPHALT TOPPING TO MATCH STREET CROWN)
- SAW-CUT EXISTING PAVEMENT
- 8" CONCRETE SUB-BASE
- EXISTING STREET PAVEMENT
- COMPACTED SUB-GRADE

Scale: NONE
Paving

Sidewalk and Tree Well Plan

- Expansion joint required when new concrete abuts any fixed element (1/2" typ) see STD. 304
- New conc. sidewalk with light sand-blast finish
- Control joint (contraction joint typ) see STD. 305
- Expansion joint (typ)
- 1/2" EJ required at 25' O.C. max see STD. 304

5'-0" typ (varies)

Gravel

Sump below

Raised

Concrete Curb

6" typ

EQ.

EQ.

EQ.

EQ.

5'-0"

EQ.

EQ.

EQ.

EQ.

5'-0"

1/2" EJ

Rootshell

Planting Bed

Root Barrier shall be installed adjacent to all curb that surrounds tree well. See STD. 505.

Groundcover at 18" O.C. max.

For tree see planting section

1/2" EJ

NOTE:
1. For section, refer to Decatur Streetscape Guidelines STD. 502
2. Concrete to be 3000 P.S.I. (typical)
Paving
Expansion Joint Detail

Provide expansion joint at all fixed objects and as shown in Std. 303.

Concrete Sidewalk

Compacted Subgrade

Joint Sealant (Concave Tooled Joint)

Rounded Back-Up Rod (5/8" Ø)

1/2" Compressible Premolded Joint Filler

25'-0" O.C. MAX
Paving

Contraction Joint Detail

Provide contraction joint in locations indicated on plan. 1/4 thickness of concrete.
Paving
Trench Repair

1. EXIST. ASPH. MUST BE SAW CUT TO NEAT STRAIGHT LINES.
2. ALL EDGES OF FINISH ASPHALT MUST BE STRAIGHT. RAGGED EDGES WILL NOT BE ACCEPTABLE.
3. ALL CUTS SHALL BE SQUARED UP, WITH PARALLEL SIDES, INCLUDING CUTS AT M.H.
Paving
Standard Residential Road Section

NOTES:
1. PAVEMENT SECTIONS SHALL BE APPROVED BY CITY OF DECATUR FOR EACH SPECIFIC PROJECT.

UDO = UNIFIED DEVELOPMENT ORDINANCE
Paving
Standard Mixed Use/Commercial Road Section

NOTES:
1. PAVEMENT SECTIONS SHALL BE APPROVED BY CITY OF DECATUR FOR EACH SPECIFIC PROJECT.

UDO = UNIFIED DEVELOPMENT ORDINANCE

24” CURB & GUTTER SIMILAR TO GDOT STD. 9032B TYPE 2
COMPACTED SUB-BASE TO 100% STANDARD (ASTM D698)
1.5” ASPHALTIC CONC. SURFACE
9.5 mm TYPE 2 SUPERPAVE (SEE NOTE 1)
2.5” ASPHALTIC CONC. BINDER
19 mm OR 25 mm SUPERPAVE (SEE NOTE 1)
8” GRADED AGGREGATE BASE
COMPACTED 100% (ASTM D698) (SEE NOTE 1)
REMOVAL OF UNSUITABLE MATERIAL AS DIRECTED BY THE ENGINEER (SEE NOTE 1)

SIDEWALK
6” HEADER CURB
GDOT STD. 9032B TYPE 2

6” LISTED CURB
GDOT STD. 9032B TYPE 2

PLANTING STRIP SEE UDO FOR MIN. WIDTH
SEE UDO FOR WIDTH REQUIREMENTS
SEE UDO FOR MIN. TRAVEL LANE WIDTH
SEE UDO FOR MIN. TRAVEL LANE WIDTH
SEE UDO FOR MIN. TRAVEL LANE WIDTH
SEE UDO FOR MIN. TRAVEL LANE WIDTH

RW VARIATES.
SEE UDO FOR R/W MIN.

1/4”/FT.

2’-0”

1/4”/FT.

1’-6”

24” CURB & GUTTER SIMILAR TO GDOT STD. 9032B TYPE 2
COMPACTED SUB-BASE TO 100% STANDARD (ASTM D698)
1.5” ASPHALTIC CONC. SURFACE
9.5 mm TYPE 2 SUPERPAVE (SEE NOTE 1)
2.5” ASPHALTIC CONC. BINDER
19 mm OR 25 mm SUPERPAVE (SEE NOTE 1)
8” GRADED AGGREGATE BASE
COMPACTED 100% (ASTM D698) (SEE NOTE 1)
REMOVAL OF UNSUITABLE MATERIAL AS DIRECTED BY THE ENGINEER (SEE NOTE 1)

NOTES:
1. PAVEMENT SECTIONS SHALL BE APPROVED BY CITY OF DECATUR FOR EACH SPECIFIC PROJECT.

UDO = UNIFIED DEVELOPMENT ORDINANCE
Paving
Standard Alley Road Section

NOTES:
1. ASPHALT PAVEMENT SECTION SHOWN; HOWEVER, ALTERNATE PAVEMENT MATERIAL MAY BE USED IF APPROVED BY CITY.
2. PAVEMENT SECTIONS SHALL BE APPROVED BY CITY OF DECATUR FOR EACH SPECIFIC PROJECT.
3. RIBBON CURB NOT REQUIRED IF ALLEY IS CONCRETE PAVEMENT.
4. DETAIL SHOWS MINIMUM THICKNESS FOR ASPHALT PAVEMENT SECTION. DESIGNER SHALL VERIFY IF PAVEMENT SECTION IS ADEQUATE FOR ACTUAL VEHICULAR TRAFFIC THAT WILL ACCESS ALLEY.
5. PAVEMENT SECTION DOES NOT CONSIDER EMERGENCY VEHICLE TRAFFIC.
6. RIBBON CURB SHALL BE A MINIMUM OF 3000 PSI CONCRETE AT 28 DAYS.
7. ALONG RIBBON CURB:
   • 1/2-INCH EXPANSION JOINTS OR PREMOLDED BITUMINOUS EXPANSION JOINT MATERIAL SHALL BE PROVIDED AT ALL STRUCTURES, RADIUS POINTS, AND AT INTERVALS NOT TO EXCEED 50 FEET.
   • CONTRACTION JOINT SHALL BE INSTALLED 1/2-INCH AT 10-FT INTERVALS.

UDO = UNIFIED DEVELOPMENT ORDINANCE
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Drainage

General Notes

Minimum design standards shall meet Georgia Department of Transportation (GDOT) standard specifications and details for both public and private infrastructure, unless otherwise specified in the following details. Also, refer to City of Decatur Streetscape Guidelines for all public infrastructure requirements within right-of-ways.

The following stormwater drainage materials are allowed in both public and private infrastructure:
• Reinforced Concrete
• High Density Polyethylene (HDPE)

The following stormwater drainage materials are only allowed in private infrastructure:
• Aluminized Type II CMP
Drainage
Curved Bicycle Safety Grate

RAISED OR RECESSED ARROWS INDICATE DIRECTION OF HYDRAULIC FLOW. DESIGN OF ARROWS IN MANUFACTURER’S CHOICE.

NOTE:
ALL TYPE DROP INLETS WILL BE CONSTRUCTED (AS SHOWN), SO THAT THE GRATE BARS ARE PERPENDICULAR TO THE FLOW OF TRAFFIC EXCEPT ON LIMITED ACCESS PROJECTS OR WHERE BICYCLES ARE PROHIBITED.
Drainage

Sidewalk Flume with Grate and Sidewalk Trench Drain Frame and Grate

Sidewalk Flume/Drain Grate & Frame:

A. Model: “Wave” by Urban Accessories, P.O. Box 310, 20004 144th Street, N.E., Woodinville, WA 98072

B. Size: 8"W x 18"L

Color and Finish: Flume/Grate and Frame at Natural Raw Metal

Frame: Model P-Paver

DECATUR ENGINEERING STANDARD DETAILS

SIDEWALK FLUME WITH PLATE AND SIDEWALK TRENCH FRAME AND GRATE

SCALE: NONE
CONCRETE FLARED END SECTIONS SHALL BE IN ACCORDANCE WITH GEORGIA DEPARTMENT OF TRANSPORTATION (GDOT) CONSTRUCTION STANDARD 1120.

CONCRETE FLARED END SECTION

GENERAL NOTES:
1. 18–through 36-inch (450 to 900 mm) flared end sections for use in culvert and drainage outlet applications for corrugated HDPE pipe. HDPE flared end sections are only to be used with HDPE pipe.

2. The invert of the pipe and the end section shall be at the same elevation as the flared end section and shall be high density polyethylene meeting ASTM D3349 with a minimum cellular classification of 2R122205. Each end section shall have a carbon black additive for UV protection. When provided, the metal threaded fastening rods shall be stainless steel.

3. Installation shall be in accordance with the manufacturer instructions and those issued by the state or local authorities.

4. Centerline of flared end section will align with centerline of pipe; if pipe is skewed, the embayment slope will be warped to conform with end section.

5. Where HDPE flared end sections are used with multiple pipelines, the standard spacing between pipes may have to be increased to prevent overlap of end section widths.

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DECATUR ENGINEERING STANDARD DETAILS

FLARED END SECTION

SCALE: NONE

HDPE FLARED END SECTION
NOTES:

1. MANHOLE FRAME AND COVER ASSEMBLY SHALL BE MODEL NUMBER V1326, AS MANUFACTURED BY EAST JORDAN IRON WORKS, INCORPORATED, OR APPROVED EQUAL
2. COVER AND FRAME SHALL CONFORM TO A.S.T.M. SPECIFICATIONS A48 LATEST REVISION FOR CLASS 35B GRAY IRON CASTING
3. TRAFFIC-RATED GDOT APPROVED FRAME AND COVER TO BE USED
Drainage
Non-Traffic Rated Manhole Frame and Cover Assembly

1. MANHOLE FRAME AND COVER ASSEMBLY SHALL BE MODEL NUMBER V1860 WITH CITY OF DECATUR LOGO, AS MANUFACTURED BY EAST JORDAN IRON WORKS, INCORPORATED, OR APPROVED EQUAL
2. COVER AND FRAME SHALL CONFORM TO A.S.T.M. SPECIFICATIONS A48 LATEST REVISION FOR CLASS 35B GRAY IRON CASTING
3. STORM MANHOLE TO ONLY BE USED IN NON-TRAFFIC AREAS
Drainage
Bioswale Planter Detail

VIEW FROM SIDEWALK
(STD. 607)

SIDEWALK 4'-8 1/2"

EXPANSION JOINT
1/2" PREMOLDED BITUMINOUS FILLED

2% SLOPE MAX

BIOSWALE (5'-6" MIN)

VARS 4'-6" (MIN)

SIDEWALK SIDE CURB OPENINGS
FOR DRAINAGE (SEE STD. 607
FOR DIMENSIONS AND SPACING)

2' MIN (VARIES PER SOIL CONDITIONS)

BIOSWALE CONCRETE CURB,
PERPENDICULAR TO STREET
WITH NO CURB CUTS. ALL
EDGES TO BE TOOLED WITH R-1"

STREET SIDE CURB OPENINGS
FOR DRAINAGE (SEE STD. 607
FOR DIMENSIONS AND SPACING)

EXISTING ROADWAY
TOPCOAT

6" 1/2" - ¾" WASHED STONE DRAINAGE BED.

IMPERVIOUS LINER AS
REQUIRED BY CITY
(SEE NOTES)

4" PERFORATED UNDERDRAIN AS
REQUIRED (SEE NOTES)

NOTE: SEE BIOSWALE
NOTES ON STD. 608

6" 12"

BIO-RETENTION SOIL MIX

2" MULCH

NOTE: SEE BIOSWALE
NOTES ON STD. 608

CONCRETE
SIDEWALK
SEE STD. 303

GEOTEXTILE
FABRIC BARRIER
2' OVERLAP

VIEW FROM STREET
(STD. 607)

PROPOSED PLANTINGS TO
BE APPROVED BY CITY

SEE STD. 302
FOR STREET PATCH DETAIL

EXISTING ROADWAY
TOPCOAT

STREET

DECATUR ENGINEERING STANDARD DETAILS

BIOSWALE PLANTER DETAIL

SCALE: NONE
Drainage
Bioswale Planter Openings Detail

NOTE: CURBS MATCH SLOPES OF ADJACENT ROAD OR SIDEWALK UNLESS OTHERWISE INDICATED ON PLANS.
Drainage
Bioswale Planter Notes

NOTES FOR BIOSWALE PLANTERS:

1. MAXIMUM PONDING DEPTH IN BIOSWALE SHALL NOT BE GREATER THAN SIX INCHES.

2. WIDTH AND LENGTH OF PLANTER AND DEPTH OF BIORETENTION SOIL MIX AND WASHED STONE DRAINAGE BED MAY VARY DUE TO SITE CONDITIONS AND STORMWATER TREATMENT VOLUME.

3. LOCATE ALL UTILITIES PRIOR TO DESIGN. SITE CONDITIONS WILL VARY AND SIGNIFICANT DESIGN ADAPTATIONS MAY BE NEEDED TO ADDRESS UTILITY CONFLICTS, STEEP SLOPES, AND OTHER CONSTRAINTS.

4. CROSS SLOPES SHOULD ALWAYS BE AS CLOSE TO LEVEL (0% SLOPE) AS POSSIBLE.

5. CURBS, GUTTERS, STREETS, AND SIDEWALKS SHALL CONFORM TO CITY OF DECATUR STANDARDS.

6. PLANS SHALL INDICATE ELEVATIONS AT ALL INLETS AND OUTLETS, AS WELL AS ALL GRADES ON STREET AND BOTTOM OF PLANTER.

7. SIDEWALK ELEVATION MUST BE HIGHER THAN MAXIMUM FLOW OR POOL ELEVATION.

8. PLANTERS MUST BE ABLE TO WITHSTAND STORMWATER FLOWS WITHOUT EROSION OR OTHER DAMAGE. INLETS SHOULD BE SIZED AND CHECK DAMS USED TO ENSURE APPROPRIATE VELOCITIES.

9. ALL VEGETATED AREAS MUST BE MULCHED WITH EITHER 2-3" OF NON FLOATABLE ORGANIC MULCH (SUCH AS SHREDDED HARDWOOD OR LEAF MOULD) OR STONE. STONE MULCH MAY BE NEEDED IN AREAS OF STRONG FLOWS TO PREVENT EROSION. ALL PONDING ELEVATIONS SHOWN IN DETAILS ARE ASSUMED TO BE MEASURED FROM TOP OF MULCH LAYER.

10. BIORETENTION SOIL MIX SHALL BE SANDY LOAM, LOAMY SAND, OR LOAM TEXTURE WITH CLAY CONTENT RANGING FROM 10 TO 25%. THE SOIL MUST HAVE AN INFILTRATION RATE OF AT LEAST 0.5 INCHES PER HOUR AND A pH BETWEEN 5.5 AND 6.5. IN ADDITION, THE PLANTING SOLID SHOULD HAVE A 1.5 TO 3% ORGANIC CONTENT AND A MAXIMUM 500 ppm CONCENTRATION OF SOLUBLE SALTS.

11. BIORETENTION SOIL MUST BE A MIN. OF 24" DEEP AT SHALLOWEST POINT. 36" DEPTH IS REQUIRED FOR PLANTING TREES.

12. IF INFILTRATION TESTS IN SOILS AT BOTTOM OF PLANTER SHOW SATURATED INFILTRATION RATES OF LESS THAN ½ INCH PER HOUR (1 FOOT /DAY), UNDERDRAINS SHALL BE REQUIRED. UNDERDRAINS SHALL CONNECT TO STORM DRAINAGE SYSTEM AND/OR RELEASE AT GRADE. UNDERDRAINS SHALL BE SLOPED AT A 1% MINIMUM TO MAINTAIN POSITIVE DRAINAGE.
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Water & Sanitary Sewer
All water and sanitary sewer distribution standards, both on public and private infrastructure, are to be the current DeKalb County Watershed Management Department standards.