



TYPICAL SECTION – PRINCIPAL ARTERIAL  
Not to Scale

- LEGEND**
- ① POINT OF APPLICATION OF GRADE
  - ② 1.5" BITUMINOUS CONCRETE – CLASS 1
  - ③ 1.5" BITUMINOUS CONCRETE – CLASS 1 BASE COURSE
  - ④ ASPHALTIC TACK COAT ON CONCRETE BASE
  - ⑤ 8" REINFORCED CONCRETE (3000 PSI MIN., 96 HOUR CURE)
  - ⑥ 6"x20" GRANITE CURBING
  - ⑦ 5" AND 8" 4000 PSI CONCRETE WALK OR PAVERS ON CONCRETE BASE
  - ⑧ 12" PROCESSED TRAPROCK
  - ⑨ LOAM AND SEED OR 2" BIT. CONCRETE SURFACE
  - ⑩ 6" PROCESSED TRAPROCK
  - ⑪ 6 X 12 #4 WELDED WIRE MESH REINFORCEMENT
  - ⑫ RIGID METAL CONDUITS FOR ILLUMINATION
  - ⑬ STREET TREE SHOWN WITH TREE GUARD AND SIDEWALK GRATE
  - ⑭ PEDESTRIAN ORNAMENTAL LIGHT POLE AND FIXTURE
  - ⑮ ILLUMINATION HANDHOLE JUNCTION BOX
  - ⑯ 28" ORNAMENTAL ROADWAY LIGHT POLE AND FIXTURE
  - ⑰ TRASH RECEPTACLE
  - ⑱ 8" UNDERDRAIN WHERE REQUIRED BY CITY
  - ⑳ SUITABLE SUB GRADE SHAPED AND COMPACTED

**Introduction:**

This drawing is provided for the purpose of establishing the minimum design guidelines with respect to the construction of a Principal Arterial Street, as defined by "A Policy on Geometric Design of Highways and Streets, 2001" by American Association of State Highway and Transportation Officials", (AASHTO), current edition, or as amended within the City of Hartford. The materials, dimensions, utilities and amenities shown are subject to the approval of the City of Hartford, Department of Public Works under the applicable provisions of the City of Hartford Municipal Code. The City reserves the right to amend or modify any part of these guidelines for any reason or purpose.

**Utilities:**

Line assignment for utility facilities shall be located within the curb to curb width. Such line assignments will be issued by the Department of Public Works.

**Illumination:**

Lighting may be one or a combination of; Cobrg-head Luminaire on Steel Pole, Pedestrian Ornamental Light Pole and Fixture, Ornamental Roadway Light Pole. Illumination design shall conform to LESND standards with a 2.0 footcandle average light level within the ROW. Fixtures shall be "Dark Skies" compliant unless otherwise approved by the Director of Public Works.

**U.F.A.S.:**

Handicapped accessible ramps shall be installed at every location where a pedestrian street crossing is planned. The ramp shall not exceed a slope of 1:12. Any design shall be compliant with current UFAS requirements.

**Traffic Calming:**

The Department of Public Works has developed a City wide Traffic Calming Master Plan. street projects shall incorporate elements of this plan. The City Engineer should be consulted as to which traffic calming device is to be incorporated on a specific roadway.

**Streetscape:**

Streetscape components that may be considered are: trees, planters, benches, trash receptacles, brick pavers, stamped concrete and other amenities that would add an aesthetic component to the roadway. Guidelines for the use of specific components can be obtained from the Department of Public Works.

**Permits**

Applicable permits that may be required are, but not limited to: City of Hartford, Department of Public Works Construction Permit, Metropolitan District Developer's Permit, DEP Stormwater Discharge Permit. It is the developer's responsibility to verify and obtain all required permits.

<b>DESIGN CRITERIA:</b>	
<b>DESIGN CONTROLS:</b>	
Design Speed:	40 mph
Level of Service:	C-D
ROW Width:	≥ 74'
<b>ALIGNMENT ELEMENTS:</b>	
Stopping Sight Distance:	305'
Minimum Radius:	525' (e=4%)
Minimum Grade:	0.5%
Maximum Grade:	7%
Vertical Curve (f)':	44
Crest	64
Sog	64
<b>CROSS SECTION ELEMENTS:</b>	
Curb to Curb Width:	44' and >
Travel Lane Width:	11'
Shoulder Width:	0-4'
Povement Cross Slope:	1.5%-2.0%
Sidewalk Width:	10'
Sidewalk Cross Slope:	2% Max.

Design criteria based on "AASHTO-Geometric Design of Highways and Streets", 4th Edition, 2001.

This manual should be referenced to obtain the accurate design values for the applicable component range.

Revisions	By	Date

Notice  
Manual revisions to this drawing are prohibited. The use of this drawing by any person for any reason without the written authorized consent of the City of Hartford is prohibited.

Sign-Offs	By	Date
Drawn		
Checked		
Recommended		
Approved		
Recorded		

**TYPICAL ROADWAY CROSS SECTION**  
City of Hartford - Department of Public Works  
Hartford, Connecticut, 06103



**City of Hartford, Connecticut**  
Department of Public Works  
TYPICAL ROADWAY SECTION  
PRINCIPAL ARTERIAL



Sheet No.  
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