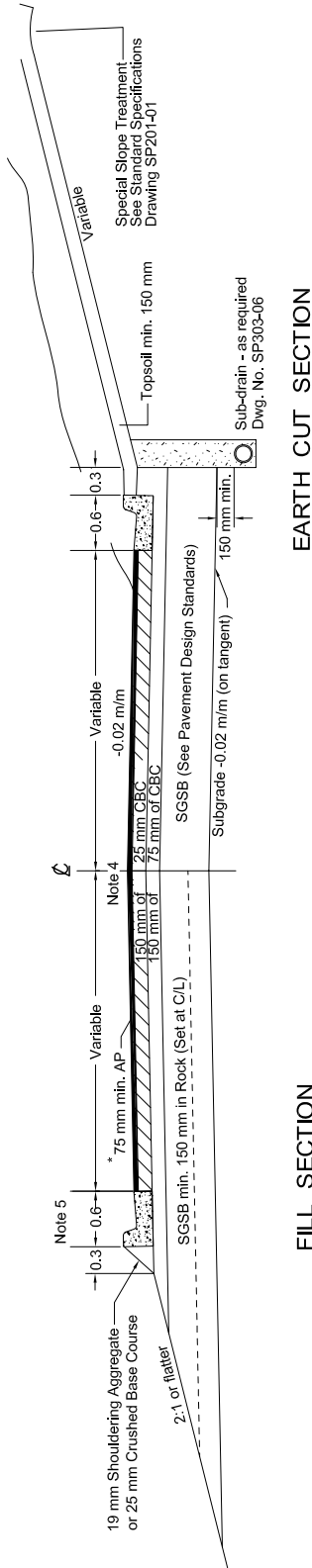


MoT Section	1420	TAC Section	Not Applicable
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Figure 1420.B Two-Lane Urban Subdivision Road  
N.T.S.



EARTH CUT SECTION

FILL SECTION

PAVEMENT DESIGN STANDARDS - When "Equivalent Single Axle Loads, (ESAL's)" are >100,000 and <1,000,000. See 1410.07.02

- These are typical gravel and asphalt depths to be used in the absence of geotechnical investigation.
- 75 mm A.P. to be constructed in 2 lifts for 19 mm MAXIMUM size aggregate and 1 lift for 25 mm MAXIMUM size aggregate. (In accordance with the latest version of the B.C. MOT Standard Specifications for Highway Construction - Section 501, Subsection 501.23.06)
- No S.G.S.B. is required in exceptional circumstances where the following criteria have been met:

Structural Design Criteria is satisfied and

Subgrade material consists of clean granular deposits that satisfy S.G.S.B. gradation and construction criteria (i.e. rutting criteria) in accordance with the latest version of the B.C. MoT Standard Specifications for Highway Construction - Section 202 "GRANULAR SURFACING, BASE AND SUB-BASES"

- MINIMUM 150 mm S.G.S.B. in Rock.
  - All levelling materials applied directly to blasted rock cuts shall be of S.G.S.B. quality.
  - THE FINAL S.G.S.B. THICKNESS MUST BE APPROVED BY THE REGIONAL GEOTECHNICAL AND MATERIALS ENGINEER.
- \* When "Equivalent Single Axle Loads, (ESAL's)" are > 1,000,000 use 100 mm A.P.

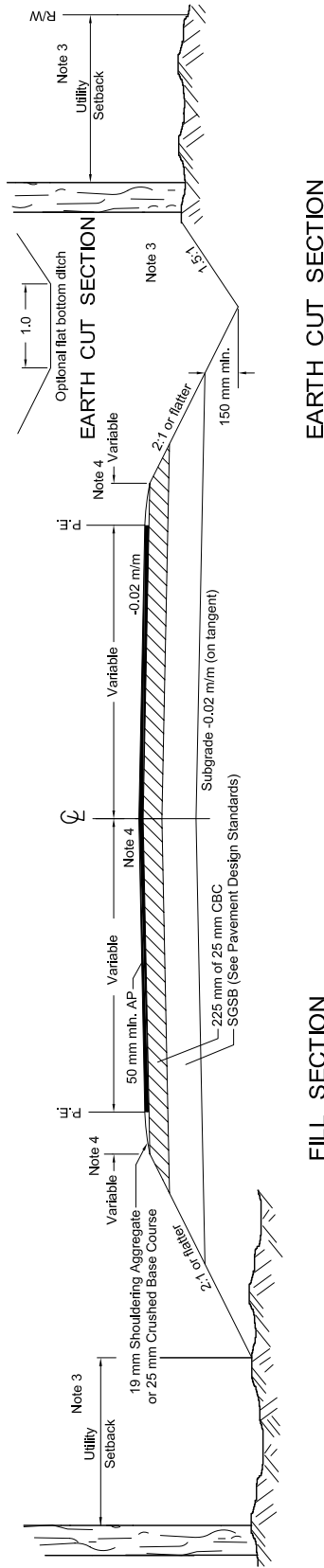
Abbreviations:  
AP Asphalt Pavement  
CBC Crushed Base Course  
SGSB Select Granular Sub Base

**Notes:**

1. For bikeway design, see Section 430 and TAC
2. For roadside barrier and drainage curb details, see Section 440
3. Utility setback is 2 m from the base of fill/top of cut slope or 2 m from property boundary, whichever gives the greater offset from the road
4. For variable shoulder and top widths, refer to Table 1420.E
5. For typical curbs see SP582-01.01 to SP582-01.03 in the Standard Specifications
6. For rock ditches, see Section 440

MoT Section	1420	TAC Section	Not Applicable
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Figure 1420.C Two-Lane Two-Way Subdivision Road  
N.T.S.



**PAVEMENT DESIGN STANDARDS -** When "Equivalent Single Axle Loads, (ESAL's)" are <100,000. See 1410.07.02

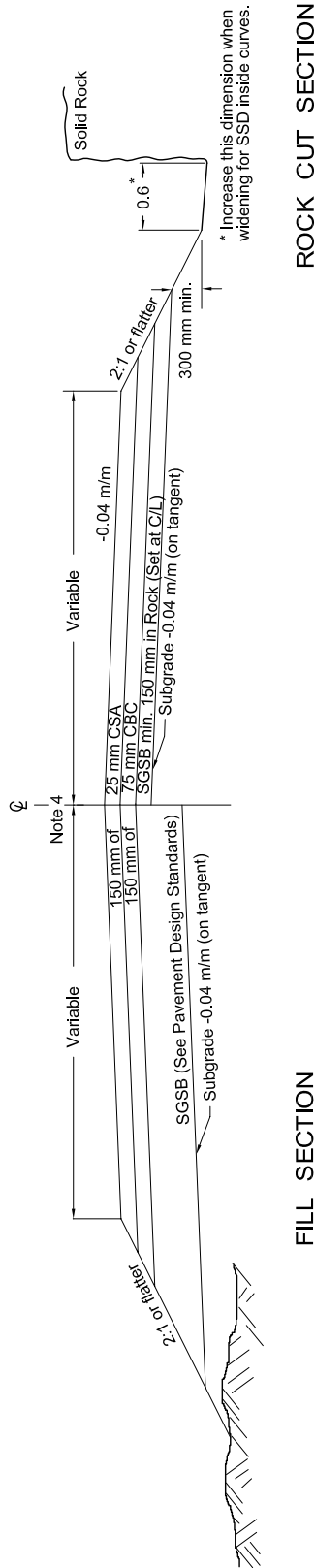
- These are typical gravel and asphalt depths to be used in the absence of geotechnical investigation.
- **MINIMUM** 150 mm S.G.S.B. on Coarse Grained Subgrades (Unified Soils Classification System - GW/GP/GM/GC/SW/SP/SM/SC) where groundwater does not pose a drainage problem and frost penetration does not affect the structure.
- **MINIMUM** 300 mm S.G.S.B. on Fine Grained Subgrades (Unified Soils Classified System - ML/CL/OL/MH/CH/OH).
- No S.G.S.B. is required in exceptional circumstances where the following criteria have been met:  
Structural Design Criteria is satisfied  
and  
Subgrade material consists of clean granular deposits that satisfy S.G.S.B. gradation and construction criteria (i.e. rutting criteria) in accordance with the latest version of the B.C. MoT Standard Specifications for Highway Construction - Section 202 "GRANULAR SURFACING, BASE AND SUB-BASES"
- **MINIMUM** 150 mm S.G.S.B. in Rock.
- All levelling materials applied directly to blasted rock cuts shall be of S.G.S.B. quality.
- **THE FINAL S.G.S.B. THICKNESS MUST BE APPROVED BY THE REGIONAL GEOTECHNICAL AND MATERIALS ENGINEER.**

Abbreviations:  
 AP Asphalt Pavement  
 CBC Crushed Base Course  
 SGSB Select Granular Sub Base

- Notes:**
1. For bikeway design, see Section 430 and TAC
  2. For roadside barrier and drainage curb details, see Section 440
  3. Utility setback is 2 m from the base of fill/top of cut slope or 2 m from property boundary, whichever gives the greater offset from the road
  4. For variable shoulder and top widths, refer to Table 1420.E
  5. For typical curbs see SP582-01.01 to SP582-01.03 in the Standard Specifications
  6. For rock ditches, see Section 440

MoT Section	1420	TAC Section	Not Applicable
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Figure 1420.D Gravel Subdivision Road  
N.T.S.



**PAVEMENT DESIGN STANDARDS -** When "Equivalent Single Axle Loads, (ESAL's)" are <100,000. See 14:10.07.02

- These are typical gravel and asphalt depths to be used in the absence of geotechnical investigation.
- **MINIMUM** 150 mm S.G.S.B. on Coarse Grained Subgrades (Unified Soils Classification System - GW/GP/GM/GC/SW/SP/SM/SC) where groundwater does not pose a drainage problem and frost penetration does not affect the structure.
- **MINIMUM** 300 mm S.G.S.B. on Fine Grained Subgrades (Unified Soils Classified System - ML/CL/OL/MH/CH/OH).
- No S.G.S.B. is required in exceptional circumstances where the following criteria have been met:

Structural Design Criteria is satisfied and

Subgrade material consists of clean granular deposits that satisfy S.G.S.B. gradation and construction criteria (i.e. rutting criteria) in accordance with the latest version of the B.C. MoT Standard Specifications for Highway Construction - Section 202 "GRANULAR SURFACING, BASE AND SUB-BASES"

- **MINIMUM** 150 mm S.G.S.B. in Rock.
- All levelling materials applied directly to blasted rock cuts shall be of S.G.S.B. quality.
- **THE FINAL S.G.S.B. THICKNESS MUST BE APPROVED BY THE REGIONAL GEOTECHNICAL AND MATERIALS ENGINEER.**

**Notes:**

1. For bikeway design, see Section 430 and TAC
2. For roadside barrier and drainage curb details, see Section 440
3. Utility setback is 2 m from the base of fill/top of cut slope or 2 m from property boundary, whichever gives the greater offset from the road
4. For variable shoulder and top widths, refer to Table 1420.E
5. For typical curbs see SP582-01.01 to SP582-01.03 in the Standard Specifications
6. For rock ditches, see Section 440

**Abbreviations:**

- CSA Crushed Surfacing Aggregate
- CBC Crushed Base Course
- SGSB Select Granular Sub Base

MoT Section	1420	TAC Section	Not Applicable
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**1420.05.03 Locals**

**Rural Local**

The Right-of-Way width is 20 metres, or the cross section width plus 3 metres on each side, whichever is greater.

- Minimum finished top: 8 metres\*, \*\*.
- Minimum paved top: 7 metres\*, \*\*.
- Ditch inverts: earth cut - minimum 150 mm below subgrade, see Figure 1420.C; rock cut – minimum 300 mm below subgrade, see Figure 1420.D
- Gravel shoulder: 0.5 metre.

\*Add 1 metre per side snow storage when requested by the Ministry Representative.

\*\*Add 1 metre per side for pedestrian walkway in high volume, low speed tourist areas when requested by the Ministry Representative. Sidewalks may be a considered option where the minimum sidewalk width would be 1.5 metres.

For Two-Lane Two-Way asphalt & gravel surfaces, See Figures 1420.C & 1420.D

**Urban Local (Curb and Gutter)**

The Right-of-Way width is 20 metres, or the cross section width plus 3 metres on each side, whichever is greater.

- Curb and gutter:  
Finished top – 11.8 metre top, 10.0 paved, on street parking, both sides.  
Finished top – 10.0 metre top, 8.2 paved, on street parking, one side.
- Ditch inverts minimum: 150 mm below subgrade, see Figure 1420.B.
- Gravel shoulder: 0.3 metres behind curb, see Figure 1420.B.

**1420.05.04 Cul-de-sac**

**Rural:** 15 metre radius finished top  
14.5 and 14.0 metre radius paved top  
0.5 and 1.0 metre gravel shoulder,  
see Figures 1420.F and 1420.G

**Urban:** 15 metre radius finished top  
14.1 metre radius paved top  
0.6 metre curb width  
0.3 metre gravel shoulder, see Figure 1420.H and 1420.I

Maximum length: 150 metres

**Offset Cul-de-Sac** - see Figure 1420.J

**Hammerhead Cul-de-Sac** - see Figures 1420.K and 1420.L

**Table 1420.E – Finished Top and Shoulder Widths**

<b>Collector</b>				
<b>Rural</b> (Fig. 1420.F)		<b>Urban</b> (Fig. 1420.H)		
Top Width	Paved Width	Top Width	Paved Width	Parking
10.0	8.0	10.0	8.2	one side
1.0 gravel shoulder		0.6 curb plus 0.3 gravel shoulder		
<b>Local</b>				
<b>Rural</b> (Fig. 1420.G)		<b>Urban</b> (Figs. 1420.H and I)		
Top Width	Paved Width	Top Width	Paved Width	Parking
8.0	7.0	11.8	10.0	both sides
		10.0	8.2	one side
0.5 gravel shoulder		0.6 curb plus 0.3 gravel shoulder		