

B81. Local Call Attempts

Definition

The number of yearly local call attempts, as reported by the FCC.

Default Value

Taken from ARMIS reports for the LEC being studied.

B82. Call Completion Fraction

Definition

The percentage of calls that result in a message. By this definition, calls that result in a busy signal, no answer, or network blockage are all considered incomplete.

Default Value

0.7

B83. IntraLATA Calls Completed

Definition

The number of yearly intraLATA call attempts, as reported by the FCC.

Default Value

Taken from ARMIS reports for the LEC being studied.

B84. InterLATA Intrastate Calls Completed

Definition

The number of yearly interLATA intrastate call attempts, as reported by the FCC.

Default Value

Taken from ARMIS reports for the LEC being studied.

B85. InterLATA Interstate Calls Completed

Definition

The number of yearly interLATA interstate call attempts, as reported by the FCC.

Default Value

Taken from ARMIS reports for the LEC being studied.

B86. Local DEMs, thousands

Definition

The number of yearly local DEMs, as reported by the FCC.

Default Value

Taken from ARMIS reports for the LEC being studied.

B87. Intrastate DEMs, thousands

Definition

The number of yearly intrastate DEMs, as reported by the FCC.

Default Value

Taken from ARMIS reports for the LEC being studied.

B88. Interstate DEMs, thousands

Definition

The number of yearly interstate DEMs, as reported by the FCC.

Default Value

Taken from ARMIS reports for the LEC being studied.

B89. Local bus/res DEMs ratio

Definition

The ratio of local Business DEMs per line to local Residential DEMs per line

Default Value

1.1

B90. Intrastate bus/res DEMs

Definition

The ratio of intrastate Business DEMs per line to intrastate Residential DEMs per line

Default Value

2

B91. Interstate bus/res DEMs

Definition

The ratio of interstate Business DEMs per line to interstate Residential DEMs per line

Default Value

3

B92. Busy hour fraction of daily usage

Definition

The percentage of daily usage that occurs during the busy hour.

Default Value

0.10

B93. Annual to daily usage reduction factor

Definition

The effective number of business days in a year, used to concentrate annual usage into a fewer number of days as a step in determining busy hour usage.

Default Value

270

B94. Holding time multipliers, residential/business

Definition

The potential modification to the average call "holding time" (i.e., duration) to reflect Internet use or other causes, expressed as a multiplier of the holding time associated with ordinary residential or business telephone calls.

Default Value

Holding time multipliers	
Residential	Business
1.0	1.0

B95. Call attempts, Busy Hour (BHCA), residential/business

Definition

The number of call attempts originated per residential and business subscriber during the busy hour.

Default Value

Busy Hour Call Attempts	
Residential	Business
1.3	3.5

B96. Transmission Terminal Investment

Definition

The investment in the add-drop multiplexers (ADM) that extract/insert signals into OC-48 fiber rings, and are needed in each wire center to connect to the interoffice fiber ring or point to point circuit.

Default Value

Transmission Terminal Investment			
OC-48 ADM installed		Other ADM installed	
12DS-36	12DS-36	12DS-36	12DS-36
\$50,000	\$40,000	\$26,000	\$500

B97. Number of fibers

Definition

The assumed fiber cross-section, or number of fibers in a cable, in the interoffice fiber ring and point to point network.

Default Value

24

B98. Pigtails

Definition

The cost of the short fiber connectors that attach the interoffice ring fibers to the wire center transmission equipment via a patch panel.

Default Value

\$60.00 per pigtail

B99. Optical Distribution Panel

Definition

The cost of the physical fiber patch panel used to connect 24 fibers to the transmission equipment.

Default Value

\$1000.00

B100. EF&I, per hour

Definition

The per-hour cost for the "engineered, furnished, and installed" activities for equipment in each wire center associated with the interoffice fiber ring, such as the "pigtails" and patch panels to which the transmission equipment is connected.

Default Value

\$55.00

B101. EF&I, units

Definition

The number of hours required to install the equipment associated with the interoffice transmission system (see EF&I, per hour, above).

Default Value

32 hours

B102. Regenerator investment, installed

Definition

The installed cost of an OC-48 optical regenerator.

Default Value

\$15,000

B103. Regenerator spacing, mi.

Definition

The distance between digital signal regenerators in the interoffice fiber optics transmission system.

Default Value

40 mi.

B104. Channel Bank Investment, per 24 lines

Definition

The investment in DS-0 to DS-1 multiplexers in wire centers required for some special access circuits.

Default Value

\$5,000

B105. Fraction of SA Lines Requiring Multiplexing

Definition

The percentage of special access circuits that require DS-0 to DS-1 multiplexing in the wire center in order to be carried on the interoffice transmission system.

Default Value

0.50

B106. Digital Cross Connect System, Installed, per DS-3

Definition

The investment required for a digital cross connect system that interfaces DS-1 signals between switches and OC-3 multiplexers, expressed on a per DS-3 basis (672 DS-0).

Default Value

\$30,000

B107. Transmission Terminal Fill (DS-0 level)

Definition

The fraction of maximum DS-0 circuit capacity that can actually be utilized in ADMs and DS-1 to OC-3 multiplexers.

Default Value

0.90

B108. Interoffice Fiber Cable investment per foot, installed

Definition

The installed cost per foot of interoffice fiber cable, assuming a 24-fiber cable.

Default Value

\$3.50 installed and buried

B109. Number of Strands per ADM

Definition

The number of interoffice fiber strands connected to the ADM in each wire center. Typically, at least four are required around the ring.

Default Value

4

B110. Interoffice Structure Percentages

Definition

The relative amounts of different structure types supporting interoffice transmission facilities. Aerial cable is attached to telephone poles or buildings, buried cable is laid directly in the earth, and underground cable runs through underground conduit. Aerial and buried percentages are entered by the user; the underground fraction is then computed.

Default Values

Structure Percentages		
Aerial %	Buried %	Underground %

20%	60%	20%
-----	-----	-----

B111. Transport Placement

Definition

The cost of placement of fiber cable used in the interoffice transmission system.

Default Values

\$1.77	\$16.40
--------	---------

B112. Buried Sheath Addition

Definition

The cost of dual sheathing for additional mechanical protection of fiber interoffice transport cable.

Default Value

\$0.20/foot

B113. Interoffice conduit, cost and number of tubes

Definition

The cost per foot for interoffice fiber cable conduit, and the number of spare tubes (conduit) placed per route.

Default Values

Cost/ft. \$0.60
 Spare tubes per route 1

B114. Pullbox Spacing

Definition

Spacing between pullboxes in the interoffice portion of the network.

Default Value

2000 ft.

B115. Pullbox Investment

Definition

Investment per fiber pullbox in the interoffice portion of the network.

Default Value

\$500

B116. Pole Spacing, Interoffice

Definition

Spacing between poles supporting aerial interoffice fiber cable.

Default Value

150 feet

B117. Interoffice pole material and labor

Definition

The installed cost of a 40' Class 4 treated southern pine pole.

Default Value

Pole Installation	
Materials	\$201
Labor	\$216
Total	\$417

B118. Fraction Interoffice Structure Common With Feeder

Definition

The percentage of structure supporting interoffice transport facilities that is also shared by feeder facilities, expressed as a fraction of the smaller of the investment in the three types of facilities (aerial, buried and underground are treated separately).

Default

.75

B119. Fraction of interoffice structure assigned to telephone

Definition

The fraction of investment in interoffice poles and trenching that is assigned to LECs. The remainder is attributed to other utilities/carriers

Default Value

Fraction of Interoffice Structure Assigned by Category		
Aerial	Buried	Underground
.33	.33	.33

B120. Operator traffic fraction

Definition

Fraction of traffic that requires operator assistance. This assistance can be automated or manual (see Operator Intervention Fraction in the Operator Systems section below)

Default

0.02

B121. Total interoffice traffic fraction

Definition

The fraction of all calls that are completed on a switch other than the originating switch, as opposed to calls completed within a single switch.

Default

0.65

B122. Maximum trunk occupancy, CCS

Definition

The maximum utilization of a trunk during the busy hour.

Default

27.5

B123. Trunk port investment, per end

Definition

Per trunk equivalent investment in switch trunk port at each end of a trunk.

Default

\$100

B124. Direct-routed fraction of local inter-office

Definition

The amount of local interoffice traffic that is directly routed between originating and terminating end offices as opposed to being routed via a tandem switch.

Default

0.98

B125. Tandem routed fraction of total intraLATA traffic

Definition

Fraction intraLATA calls that are routed through a tandem.

Default

0.2

B126. Tandem routed fraction of total interLATA traffic

Definition

Fraction of interLATA (IXC access) calls that are routed through a tandem instead of directly to the IXC.

Default

0.2

B127. POPs per Tandem Location

Definition

The number of IXC points of presence requiring an entrance facility, per LEC tandem.

Default

5

B128. Real time limit, BHCA

Definition

The maximum number of BHCA a tandem switch can process.

Default

750,000

B129. Port limit, trunks

Definition

The maximum number of trunks that can be terminated on a tandem switch.

Default

100,000

B130. Tandem common equipment investment

Definition

The amount of investment in tandem switch common equipment, which is the hardware and software that is present in the tandem in addition to the trunk terminations themselves. The cost of a tandem is estimated by the HM as the cost of common equipment plus an investment per trunk terminated on the tandem.

Default

\$1,000,000

B131. Maximum trunk fill (port occupancy)

Definition

The fraction of the maximum number of trunk ports on a tandem switch that can be utilized.

Default

0.90

B132. Maximum real time tandem occupancy

Definition

The fraction of the total capacity (expresses as the real time limit, BHCA) a tandem switch is allowed to carry.

Default

0.9

B133. Tandem common equipment intercept factor

Definition

The multiplier of the common equipment investment input that gives the common equipment cost for the smallest tandem switch.

Default

0.50

B134. Entrance Facility Distance from Serving Wire Center & IXC POP

Definition

Average length of trunks connecting an IXC with the wire center that serves it.

Default

0.5 miles

B135. STP link capacity

Definition

The maximum number of signaling links that can be terminated on a given STP pair.

Default Value

720

B136. STP maximum fill

Definition

The fraction of maximum links, as stated by the STP link capacity input, that the model assumes can be utilized before it adds another STP pair.

Default Value

0.8

B137. STP maximum investment, per pair

Definition

The cost to purchase and install an STP pair, fully equipped for the maximum number of links.

Default Value

Maximum investment: \$5,000,000

B138. STP minimum common equipment investment, per pair

Definition

The minimum investment for a minimum-capacity STP, i.e.: the fixed investment for an STP pair that serves a minimum number of links.

Default Value

\$1,000,000

B139. Link termination, both ends

Definition

The investment required for the transmission equipment that terminates both ends of an SS7 signaling link.

Default Value

\$900.00

B140. Signaling link bit rate

Definition

The rate at which bits are transmitted over an SS7 signaling link.

Default Value

56,000 bits per second

B141. Link occupancy

Definition

The fraction of the maximum bit rate that can be sustained on an SS7 signaling link.

Default Value

0.40

B142. C link cross-section

Definition

The number of C-links in each segment connecting a mated STP pair.

Default Value

24

B143. ISUP messages per interoffice BHCA

Definition

The number of Integrated Services Digital Network User Part (ISUP) messages associated with each interoffice telephone call attempt, i.e. the messages switches send to each other over the SS7 network to negotiate establishing a voice path.

Default Value

6

B144. ISUP message length, bytes

Definition

The average number of bytes in each ISUP (ISDN User Part) message.

Default Value

25 bytes

B145. TCAP messages per transaction

Definition

The number of Transaction Capabilities Application Part (TCAP) messages required per SCP database query. A TCAP message is a message from a switch to a database or another switch that provides the switch with additional information prior to setting up a call or completing a call.

Default Value

2

B146. TCAP message length, bytes

Definition

The average length of a TCAP message.

Default Value

100 bytes

B147. Fraction of BHCA requiring TCAP

Definition

The percentage of BHCAs that require a database query, and thus generate TCAP messages.

Default Value

0.10

B148. SCP investment per transaction per second

Definition

The investment in the Service Control Point (SCP) associated with database queries, or transactions, stated as the investment required per transaction per second. For example, an SCP required to handle 100 transactions per second would require a 2 million dollar investment, if the default of \$20,000 is assumed.

Default Value

\$20,000

B149. Investment per operator position

Definition

The investment per computer required for each operator position.

Default Value

\$6,400

B150. Maximum utilization per position, CCS

Definition

The estimated maximum number of CCS that one operator position can handle during the busy hour.

Default Value

32

B151. Operator intervention factor

Definition

The percentage of all operator-assisted calls that require operator intervention, expressed as 1 out of every N calls, where N is the value of the input. Given the default values for operator-assisted calls, this parameter means that 1/10 or 10% of the assisted calls actually require manual intervention of an operator, as opposed to *automated* operator assistance for credit card calls, etc.

Default Value

10

B152. Public Telephone equipment investment per station

Definition

The weighted average cost of a public telephone and pedestal (coin/non-coin and indoor/outdoor).

Default Value

\$760

B153. ICO STP Investment per Line

Definition

The surrogate value for the per line investment in a signal transfer point by an independent telephone company (ICO), in lieu of calculating it directly in the model.

Default Value

\$5.50

B154. Per Line ICO Local Tandem Investment

Definition

The surrogate value for the per line investment in a local tandem switch by an independent telephone company (ICO), in lieu of calculating it directly in the model.

Default Value

\$1.90

B155. Per Line ICO OS Tandem Investment

Definition

The surrogate value for the per line investment in an Operator Services tandem switch by an independent telephone company (ICO), in lieu of calculating it directly in the model.

Default Value

\$0.80

B156. Per Line ICO SCP Investment

Definition

The surrogate value for the per line investment in a SCP by an independent telephone company (ICO), in lieu of calculating it directly in the model.

Default Value

\$2.50

B157. Per Line ICO Local Tandem Wire Center Investment

Definition

The surrogate value for the per line investment in a local tandem wire center by an independent telephone company (ICO), in lieu of calculating it directly in the model.

Default Value

\$2.50

B158. Per Line ICO OS Tandem Wire Center Investment

Definition

The surrogate value for the per line investment in a operator services tandem wire center by an independent telephone company (ICO), in lieu of calculating it directly in the model.

Default Value

\$1.00

B159. Per Line ICO STP/SCP Wire Center Investment

Definition

The surrogate value for the per line investment in an STP/SCP wire center by an independent telephone company (ICO), in lieu of calculating it directly in the model.

Default Value

\$0.40

B160. Per Line ICO C-Link / Tandem A-Link Investment

Definition

The surrogate value for the per line investment in a C-link / tandem A-link by an independent telephone company (ICO), in lieu of calculating it directly in the model.

Default Value

\$0.30

B161. Cost of capital

Definition

The capital cost structure, including the debt/equity ratio, cost of debt, and return on equity, that make up the overall cost of capital.

Default Values

Debt percent	0.450
Cost of debt	0.077
Cost of equity	0.119
Weighted average cost of capital	<i>0.1001</i>

B162. Depreciation Lives and Net Salvage Percentages

Definition

The economic life of various network plant categories.

Default Value

motor vehicles	8.24	11.21
garage work equipment	12.22	-10.71
other work equipment	13.04	3.21
buildings	46.93	1.87
furniture	15.92	6.88
office support equipment	10.78	6.91
company comm. Equipment	7.40	3.76
general purpose computers	6.12	3.73
digital electronic switching	16.17	2.97
operator systems	9.41	-0.82
digital circuit equipment	10.24	-1.69
public telephone term. Equipment	7.60	7.97
Poles	30.25	-89.98
aerial cable, metallic	20.61	-23.03
aerial cable, non metallic	26.14	-17.53
underground cable, metallic	25.00	-18.26
underground cable, non metallic	26.45	-14.58
buried cable, metallic	21.57	-8.39
buried cable, non metallic	25.91	-8.58
intrabuilding cable, metallic	18.18	-15.74
intrabuilding cable, non metallic	26.11	-10.52
conduit systems	56.19	-10.34

B 163. Structure Percentage Assigned to Telephone

Definition

The fraction of investment in distribution and feeder poles and trenching that is assigned to LECs. The remainder is attributed to other utilities/carriers.

Default Values

0-5	.50	.33	1.00	.50	.40	.50
5-100	.33	.33	.50	.33	.40	.50
100-200	.25	.33	.50	.25	.40	.40
200-650	.25	.33	.50	.25	.40	.33
650-850	.25	.33	.40	.25	.40	.33
850-2,550	.25	.33	.33	.25	.40	.33
2,550-5,000	.25	.33	.33	.25	.40	.33
5,000-10,000	.25	.33	.33	.25	.40	.33
10,000+	.25	.33	.33	.25	.40	.33

B164. Income tax rate

Definition

The combined federal and state income tax rate on earnings paid by a telephone company.

Default Value

39.25%

B165. Variable overhead factor

Definition

The variable component of corporate overhead costs, expressed as a fraction of the sum of all capital costs and operations expenses calculated by the model.

Default Value

10.4%

B166. Other taxes factor

Definition

Taxes paid by a telephone company in addition to federal and state income taxes.

Default Value

5%

B167. Billing/bill inquiry per line per month

Definition

The cost of bill generation and billing inquiries for end users, expressed as an amount per line per month.

Default Value

\$1.22

B168. Directory listing per line per month

Definition

The monthly cost of creating and maintaining white pages listings on a per line, per month basis.

Default Value

\$0.15

B169. Forward-looking network operations factor

Definition

The forward-looking factor applied to a specific category of expenses reported in ARMIS called Network Operations. The factor is expressed as the percentage of current ARMIS-reported Network Operations.

Default Value

50%

B170. Alternative Central office switching expense factor

Definition

The expense to investment ratio for digital switching equipment, used as an alternative to the ARMIS expense ratio, reflecting forward looking rather than embedded costs. Thus, this factor multiplies the calculated investment in digital switching in order to determine the monthly expense associated with digital switching. This value does not include software upgrades to the switch.

Default Value

2.69%

B171. Alternative circuit equipment factor

Definition

The expense to investment ratio for all circuit equipment (as categorized by LECs in their ARMIS reports), used as an alternative to the ARMIS expense ratio to reflect forward looking rather than embedded costs.

Default Value

0.0153

B172. End office non line-port cost fraction

Definition

The fraction of the total investment in digital switching that is assumed to be due to traffic-sensitive elements and is thus usage-sensitive. This value shows how much of the cost of an end office is associated with the line port as opposed to usage.

Default Value

70%

B173. Per-line monthly LNP cost

Definition

The estimated cost of permanent Local Number Portability (LNP), expressed on a per-line, per-month basis, including the costs of implementing and maintaining the service. This is included in the USF calculations only, not the UNE rates, because it will be included in the definition of universal service once the service is implemented.

Default Value

\$0.25

B174. Carrier-carrier customer service per line

Definition

The yearly amount of customer operations expense associated with the provision of unbundled network elements by the LECs to carriers who purchase those elements.

Default Value

\$1.69

B175. NID expense per line per year

Definition

The estimated annual NID expense on a per line basis, based on an analysis of ARMIS data modified to reflect forward looking costs. This is for the NID only, not the drop wire, which is included in the ARMIS cable and wire account.

Default Value

\$1.00/line/year

B176. DS-0/DS-1 Terminal Factor

Definition

The relative terminal investment per DS-0, between the DS-1 and DS-0 levels.

Default Value

12.0

B177. DS-1/DS-3 Terminal Factor

Definition

The relative investment per DS-0, between the DS-3 and DS-1 levels.

Default

10.0

B178. Average Lines per Business Location

Definition

The average number of business lines per business location, used to calculate NID and drop cost.

Default

4

B179. Average trunk utilization

Definition

The 24 hour average utilization of an interoffice trunk.

Default Value

0.30

EXCAVATION AND RESTORATION PARAMETERS

B180. Underground Excavation, Cost per Foot

Definition

This item includes the cost per foot to dig a trench in connection with building an underground conduit system to facilitate the placement of underground cables. Cutting the surface, placing the 4" PVC conduit pipes, backfilling the trench with appropriately screened fill, and restoring surface conditions is covered in the following section titled, "Underground Restoration Cost per Foot." These two sections do not include the material cost of the PVC conduit pipe, which is covered under "Conduit Material Investment per foot."

Default Value

Underground Excavation, Cost per Foot					
Density Zone	Trenching	Backhoe		Hand Trench	
	Per Foot	Fraction	Per Foot	Fraction	Per Foot
0-5	\$1.90	45.00%	\$3.00	1.00%	\$5.00
5-100	\$1.90	45.00%	\$3.00	1.00%	\$5.00
100-200	\$1.90	45.00%	\$3.00	1.00%	\$5.00
200-650	\$1.90	45.00%	\$3.00	3.00%	\$5.00
650-850	\$1.95	45.00%	\$3.00	3.00%	\$5.00
850-2,550	\$2.15	45.00%	\$3.00	5.00%	\$5.00
2,550-5,000	\$2.15	55.00%	\$3.00	10.00%	\$5.00
5,000-10,000	\$6.00	67.00%	\$20.00	10.00%	\$10.00
10,000+	\$6.00	72.00%	\$30.00	12.00%	\$18.00

Note: Fraction % for Trenching is the fraction remaining after subtracting Backhoe % & Trench %.

B181. Underground Restoration, Cost per Foot

Definition

This item includes the cost per foot to cut the surface, place the 4" PVC conduit pipes, backfill the trench with appropriately screened fill, and restore surface conditions. Digging a trench in connection with building an underground conduit system to facilitate the placement of underground cables is covered in the preceding section titled, "Distribution Underground Excavation Cost per Foot." These two sections do not include the material cost of the PVC conduit pipe, which is covered under "Conduit Material Investment per foot."

Default Value

Distribution Underground Restoration Cost per Foot									
Density Zone	Cut/Restore Asphalt		Cut/Restore Concrete		Cut/Restore Sod		Simple Backfill	Conduit Placement & Stabilization	
	Fraction	Per Foot	Fraction	Per Foot	Fraction	Per Foot	Per Foot	Pavement Per Foot	Dirt Per Foot
0-5	55.00%	\$6.00	10.00%	\$9.00	1.00%	\$1.00	\$0.15	\$5.00	\$1.00
5-100	55.00%	\$6.00	10.00%	\$9.00	1.00%	\$1.00	\$0.15	\$5.00	\$1.00
100-200	55.00%	\$6.00	10.00%	\$9.00	1.00%	\$1.00	\$0.15	\$5.00	\$1.00
200-650	65.00%	\$6.00	10.00%	\$9.00	3.00%	\$1.00	\$0.15	\$5.00	\$1.00
650-850	70.00%	\$6.00	10.00%	\$9.00	4.00%	\$1.00	\$0.15	\$5.00	\$1.00
850-2,550	75.00%	\$6.00	10.00%	\$9.00	6.00%	\$1.00	\$0.15	\$9.00	\$4.00
2,550-5,000	75.00%	\$6.00	15.00%	\$9.00	4.00%	\$1.00	\$0.15	\$13.00	\$11.00
5,000-10,000	80.00%	\$18.00	15.00%	\$21.00	2.00%	\$1.00	\$0.15	\$17.00	\$12.00
10,000+	82.00%	\$30.00	16.00%	\$36.00	0.00%	\$1.00	\$0.15	\$20.00	\$16.00

Note: Fraction % for Simple Backfill is the fraction remaining after subtracting Asphalt % & Concrete % & Sod %.

B182. Buried Excavation, Cost per Foot

Definition

This item includes the cost per foot to dig a trench to allow buried placement of cables, or the plowing of one or more cables into the earth using a single or multiple sheave plow.

Default Value

Buried Excavation Costs per Foot									
Density Zone	Plow		Trench	Backhoe		Hand Trench		Bore Cable	
	Fraction	Per Foot	Per Foot	Fraction	Per Foot	Fraction	Per Foot	Fraction	Per Foot
0-5	60.00%	\$.80	\$4.90	10.00%	\$3.00	0.00%	\$5.00	0.00%	\$11.00
5-100	60.00%	\$.80	\$4.90	10.00%	\$3.00	0.00%	\$5.00	0.00%	\$11.00
100-200	60.00%	\$.80	\$4.90	10.00%	\$3.00	0.00%	\$5.00	0.00%	\$11.00
200-650	50.00%	\$.80	\$4.90	10.00%	\$3.00	1.00%	\$5.00	0.00%	\$11.00
650-850	35.00%	\$.80	\$1.95	10.00%	\$3.00	2.00%	\$5.00	0.00%	\$11.00
850-2,550	20.00%	\$1.20	\$2.15	10.00%	\$3.00	4.00%	\$5.00	3.00%	\$11.00
2,550-5,000	0.00%	\$1.20	\$2.15	10.00%	\$3.00	5.00%	\$5.00	4.00%	\$11.00
5,000-10,000	0.00%	\$1.20	\$6.00	10.00%	\$20.00	6.00%	\$10.00	5.00%	\$11.00
10,000+	0.00%	\$1.20	\$15.00	25.00%	\$30.00	10.00%	\$18.00	5.00%	\$11.00

Note: Fraction % for Regular Trenching is the fraction remaining after subtracting Plow %, Backhoe %, Hand Trench %, and Bore Cable %.

B183. Buried Installation and Restoration, Cost per Foot

Definition

This item includes the cost per foot to push pipe under pavement , or the costs per foot to cut the surface, place cable in a trench, backfill the trench with appropriately screened fill, and restore surface conditions. Digging a trench in connection with placing buried cable is covered in the preceding section titled, "Distribution Buried Excavation Cost per Foot".

Default Value

	Fraction	Cost	Fraction	Cost	Fraction	Cost	Fraction	Cost	Fraction	Cost
0-5	2.00%	\$6.00	3.00%	\$6.00	1.00%	\$9.00	2.00%	\$1.00	62.00%	\$0.15
5-100	2.00%	\$6.00	3.00%	\$6.00	1.00%	\$9.00	2.00%	\$1.00	62.00%	\$0.15
100-200	2.00%	\$6.00	3.00%	\$6.00	1.00%	\$9.00	2.00%	\$1.00	62.00%	\$0.15
200-650	2.00%	\$6.00	3.00%	\$6.00	1.00%	\$9.00	2.00%	\$1.00	52.00%	\$0.15
650-850	2.00%	\$6.00	3.00%	\$6.00	1.00%	\$9.00	2.00%	\$1.00	37.00%	\$0.15
850-2,550	4.00%	\$6.00	5.00%	\$6.00	3.00%	\$9.00	35.00%	\$1.00	27.00%	\$0.15
2,550-5,000	5.00%	\$6.00	8.00%	\$6.00	5.00%	\$9.00	35.00%	\$1.00	9.00%	\$0.15
5,000-10,000	6.00%	\$6.00	18.00%	\$18.00	8.00%	\$21.00	11.00%	\$1.00	11.00%	\$0.15
10,000+	6.00%	\$24.00	60.00%	\$30.00	20.00%	\$36.00	5.00%	\$1.00	11.00%	\$0.15

Note: Restoral is not required for plowing nor for pushing pipe & pulling cable. Fraction % for Simple Backfill is the fraction remaining after subtracting Restoral Not Required %.

B184. Surface Texture Effect

Definition

The increase in placement cost attributable to the soil condition in a CBG.

Default Value

Fraction CBG Affected	Effect	Texture	Description of Texture
1.00	1.00		Blank
1.00	1.00	BY	Bouldery
1.00	1.00	BY-COS	Bouldery Coarse Sand
1.00	1.00	BY-FSL	Bouldery & Fine Sandy Loam
1.00	1.00	BY-L	Bouldery & Loam
1.00	1.00	BY-LS	Bouldery & Sandy Loam
1.00	1.00	BY-SICL	Bouldery & Silty Clay Loam
1.00	1.00	BY-SL	Bouldery & Sandy Loam
1.00	1.10	BYV	Very Bouldery
1.00	1.10	BYV-FSL	Very Bouldery & Fine Sandy Loam
1.00	1.10	BYV-L	Very bouldery & Loamy
1.00	1.10	BYV-LS	Very Bouldery & Loamy Sand
1.00	1.10	BYV-SIL	Very Bouldery & Silt
1.00	1.10	BYV-SL	Very Bouldery & Sandy Loam
1.00	1.30	BYX	Extremely Bouldery
1.00	1.30	BYX-FSL	Extremely Bouldery & Fine Sandy Loam
1.00	1.30	BYX-L	Extremely Bouldery & Loamy
1.00	1.30	BYX-SIL	Extremely Bouldery & Silt Loam
1.00	1.30	BYX-SL	Extremely Bouldery & Sandy Loam
1.00	1.00	C	Clay

1.00	1.00	CB	Cobbly
1.00	1.00	CB-C	Cobbly & Clay
1.00	1.00	CB-CL	Cobbly & Clay Loam
1.00	1.00	CB-COSL	Cobbly & Coarse Sandy Loam
1.00	1.10	CB-FS	Cobbly & Fine Sand
1.00	1.10	CB-FSL	Cobbly & Fine Sandy Loam
1.00	1.00	CB-L	Cobbly & Loamy
1.00	1.00	CB-LCOS	Cobbly & Loamy coarseSand
1.00	1.00	CB-LS	Cobbly & Loamy Sand
1.00	1.10	CB-S	Cobbly & Sand
1.00	1.00	CB-SCL	Cobbly & Sandy Clay Loam
1.00	1.00	CB-SICL	Cobbly & Silty Clay Loam
1.00	1.00	CB-SIL	Cobbly & Silt Loam
1.00	1.10	CB-SL	Cobbly & Sandy Loam
1.00	1.00	CBA	Angular Cobbly
1.00	1.10	CBA-FSL	Angular Cobbly & Fine Sandy Loam
1.00	1.20	CBV	Very Cobbly
1.00	1.20	CBV-C	Very Cobbly & Clay
1.00	1.20	CBV-CL	Very Cobbly & Clay Loam
1.00	1.20	CBV-FSL	Very Cobbly & Fine Sandy Loam
1.00	1.20	CBV-L	Very Cobbly & Loamy
1.00	1.20	CBV-LFS	Very Cobbly & Fine Loamy Sand
1.00	1.20	CBV-LS	Very Cobbly & Loamy Sand
1.00	1.20	CBV-MUCK	Very Cobbly & Muck
1.00	1.20	CBV-SCL	Very Cobbly & Sandy Clay Loam
1.00	1.20	CBV-SIL	Very Cobbly & Silt
1.00	1.20	CBV-SL	Very Cobbly & Sandy Loam
1.00	1.20	CBV-VFS	Very Cobbly & Very Fine Sand
1.00	1.20	CBX	Extremely Cobbly
1.00	1.20	CBX-CL	Extremely Cobbly & Clay
1.00	1.20	CBX-L	Extremely Cobbly Loam
1.00	1.20	CBX-SIL	Extremely Cobbly & Silt
1.00	1.20	CBX-SL	Extremely Cobbly & Sandy Loam
1.00	1.30	CBX-VFSL	Extremely Cobbly Very Fine Sandy Loam
1.00	1.00	CE	Coprogenous Earth
1.00	1.00	CIND	Cinders
1.00	1.00	CL	Clay Loam
1.00	1.30	CM	Cemented
1.00	1.00	CN	Channery
1.00	1.00	CN-CL	Channery & Clay Loam
1.00	1.10	CN-FSL	Channery & Fine Sandy Loam
1.00	1.00	CN-L	Channery & Loam
1.00	1.00	CN-SICL	Channery & Silty Clay Loam
1.00	1.00	CN-SIL	Channery & Silty Loam
1.00	1.00	CN-SL	Channery & Sandy Loam
1.00	1.00	CNV	Very Channery
1.00	1.00	CNV-CL	Very Channery & Clay
1.00	1.00	CNV-L	Very Channery & Loam
1.00	1.00	CNV-SCL	Channery & Sandy Clay Loam