LOOP MODULE - SHARED ALLOCATION TAB

Cell:

Column	Label	Formula
A	Office	='Main Logic'!A2
	Rural Low =	MNPLUTMA

Column	Label	Formula
A	Office	='Main Logic'!A5
	Rural High =	MNPLUTMA

Column	Label	Formula
A	Office	='Main Logic'!A6
	Urban Low =	OGDNUTNO

Column	Label	Formula
A	Office	='Main Logic'!A10
	Urban High =	OGDNUTNO

Description:
Carry forward of the CLLI code from main logic and the input sheet.

**

Cell:

Column	Label	Formula
B	Quadrant	='Main Logic'!B2
	Rural Low =	1

Column	Label	Formula
B	Quadrant	='Main Logic'!B5
	Rural High =	4

Column	Label	Formula
B	Quadrant	='Main Logic'!B6
	Urban Low =	1

Column	Label	Formula
B	Quadrant	='Main Logic'!B10
	Urban High =	1

Description:
Carry forward of the quadrant # from main logic and the input sheet.

**

Cell:

Column	Label	Formula
C	CLLIQUAD	=A2&B2
	Rural Low =	MNPLUTMA1

Column	Label	Formula
C	CLLIQUAD	=A5&B5
	Rural High =	MNPLUTMA4

Column	Label	Formula
C	CLLIQUAD	=A6&B6
	Urban Low =	OGDNUTNO1

Column	Label	Formula
C	CLLIQUAD	=A10&B10
	Urban High =	OGDNUTNO1

Description:
This cell is a composite of the CLLI code and quadrant # text entries into a single text word.

**
Cell:

Column	Label	Formula
D	Sgmt Count	=IF(A2=0,0,IF(AND(A2=A3,B2=B3),D3+1,1))
	Rural Low =	2

(The first if is false and the second true)

Column	Label	Formula
D	Sgmt Count	=IF(A5=0,0,IF(AND(A5=A6,B5=B6),D6+1,1))
	Rural High =	1

(Both ifs are false)

Column	Label	Formula
D	Sgmt Count	=IF(A6=0,0,IF(AND(A6=A7,B6=B7),D7+1,1))
	Urban Low =	5

(The first if is false and the second true)

Column	Label	Formula
D	Sgmt Count	=IF(A10=0,0,IF(AND(A10=A11,B10=B11),D11+1,1))
	Urban High =	1

(Both ifs are false)

Description:
This formula counts the segments in each quadrant of a CLLI.

**
Cell:

Column	Label	Formula
E	Type 1 HH	='Main Logic'!G2
	Rural Low =	338

Column	Label	Formula
E	Type 1 HH	='Main Logic'!G5
	Rural High =	311

Column	Label	Formula
E	Type 1 HH	='Main Logic'!G6
	Urban Low =	305

Column	Label	Formula
E	Type 1 HH	='Main Logic'!G10
	Urban High =	45

Description:
Carry forward of the CBG household count from main logic and the input tabs.

**
Cell:

Column	Label	Formula
F	Sgmt Type 1	='Main Logic'!F2
	Rural Low =	Cable

Column	Label	Formula
F	Sgmt Type 1	='Main Logic'!F5
	Rural High =	AFC

Column	Label	Formula
F	Sgmt Type 1	='Main Logic'!F6
	Urban Low =	Cable

Column	Label	Formula
F	Sgmt Type 1	='Main Logic'!F10
	Urban High =	SLC

Description:
Carry forward of the CBG facility type for the current CBG.

**
Cell:

Column	Label	Formula
G	HH on Cpr	='Main Logic'!J2
	Rural Low =	338

Column	Label	Formula
G	HH on Cpr	='Main Logic'!J5
	Rural High =	0

Column	Label	Formula
G	HH on Cpr	='Main Logic'!J6
	Urban Low =	852

Column	Label	Formula
G	HH on Cpr	='Main Logic'!J10
	Urban High =	0

Description:
Carry forward of the number of households on copper computed in the main logic area.

**
Cell:

Column	Label	Formula
H	B Sgmt $	=Costing!J5
	Rural Low =	8395.29

Column	Label	Formula
H	B Sgmt $	=Costing!J8
	Rural High =	0.00

Column	Label	Formula
H	B Sgmt $	=Costing!J9
	Urban Low =	22426.12

Column	Label	Formula
H	B Sgmt $	=Costing!J13
	Urban High =	0.00

Description:
Transfer of the "B" segment copper $ from the costing tab.

**
Cell:

Column	Label	Formula
I	Sgmt $/HH	=IF(G2=0,0,H2/G2)
	Rural Low =	24.84

(If is false)

Column	Label	Formula
I	Sgmt $/HH	=IF(G5=0.0,H5/G5)
	Rural High =	0.00

(If is true)

Column	Label	Formula
I	Sgmt $/HH	=IF(G6=0,0,H6/G6)
	Urban Low =	26.32

(If is false)

Column	Label	Formula
I	Sgmt $/HH	=IF(G10=0.0,H10/G10)
	Urban High =	0.00

(If is true)

Description:
Calculation of the copper segment $ per household if households are not zero.

**
Cell:

Column	Label	Formula
J	Cum CBG $/HH	=SUM(INDIRECT("I"&ROW(J2)&":I"&MATCH($C2,$C$2:$C$3500,0)+1))
	Rural Low =	24.84

Column	Label	Formula
J	Cum CBG $/HH	=SUM(INDIRECT("I"&ROW(J5)&":I"&MATCH($C5,$C$2:$C$3500,0)+1))
	Rural High =	0.00

Column	Label	Formula

J	Cum CBG $/HH	=SUM(INDIRECT("I"&ROW(J6)&":I"&MATCH($C6,$C$2:$C$3500,0)+1))
	Urban Low =	26.32

Column	Label	Formula
J	Cum CBG $/HH	=SUM(INDIRECT("I"&ROW(J10)&":I"&MATCH($C10,$C$2:$C$3500,0)+1))
	Urban High =	104.06

Description:
This calculation accumulates the cost per household for CBGs in a quadrant from the switch to the current CBG.

**
Cell:

Column	Label	Formula
K	Alloc Cpr $	=IF(F2="Cable",E2*J2,0)
	Rural Low =	8395.29

(If is true)

Column	Label	Formula
K	Alloc Cpr $	=IF(F5="Cable",E5*J5,0)
	Rural High =	0.00

(If is false)

Column	Label	Formula
K	Alloc Cpr $	=IF(F6="Cable",E6*J6,0)
	Urban Low =	8028.13

(If is true)

Column	Label	Formula
K	Alloc Cpr $	=IF(F10="Cable",E10*J10,0)
	Urban High =	0.00

(If is false)

Description:
If the current CBG is served by copper, this formula multiplies the cumulative cost per household times the number of households in the CBG to determine the CBG's share of the "B" feeder from the office to where the "A" leg leaves the main feeder.

**
Cell:

Column	Label	Formula
L	# Fibers for BG	=IF(F2="SLC",4,0)
	Rural Low =	0

(If is false)

Column	Label	Formula
L	# Fibers for BG	=IF(F5="SLC",4,0)
	Rural High =	0

(If is false)

Column	Label	Formula
L	# Fibers for BG	=IF(F6="SLC",4,0)
	Urban Low =	0

(If is false)

Column	Label	Formula
L	# Fibers for BG	=IF(F10="SLC",4,0)
	Urban High =	4

(If is true)

Description:
If the current CBG is served with SLC facilities, this cell counts 4 SLC fibers.

**

Cell:

Column	Label	Formula
M	# B Sgmt SLC Fbrs	='Main Logic'!L2
	Rural Low =	0

Column	Label	Formula
M	# B Sgmt SLC Fbrs	='Main Logic'!L5
	Rural High =	0

Column	Label	Formula
M	# B Sgmt SLC Fbrs	='Main Logic'!L6
	Urban Low =	8

Column	Label	Formula
M	# B Sgmt SLC Fbrs	='Main Logic'!L10
	Urban High =	4

Description:
Carry forward of the "B" feeder number of SLC fibers.

**

Cell:

Column	Label	Formula
N	SLC B Sgmt $	=Costing!U5
	Rural Low =	0.00

Column	Label	Formula
N	SLC B Sgmt $	=Costing!U8
	Rural High =	0.00

Column	Label	Formula
N	SLC B Sgmt $	=Costing!U9
	Urban Low =	1624.96

Column	Label	Formula
N	SLC B Sgmt $	=Costing!U13
	Urban High =	1714.25

Description:
This formula pulls in the SLC portion of the B segment feeder cost from the costing tab.

**

Cell:

Column	Label	Formula
O	Sgmt $/Fiber	=IF(M2=0,0,N2/M2)
	Rural Low =	0.00

(If is true)

Column	Label	Formula
O	Sgmt $/Fiber	=IF(M5=0,0,N5/M5)
	Rural High =	0.00

(If is true)

Column	Label	Formula
O	Sgmt $/Fiber	=IF(M6=0,0,N6/M6)
	Urban Low =	203.12

(If is false)

Column	Label	Formula
O	Sgmt $/Fiber	=IF(M10=0,0,N10/M10)
	Urban High =	428.56

(If is false)

Description:
This cell divides the B segment SLC cost by the number of SLC fibers in the segment to find a cost per fiber.

**

Cell:

Column	Label	Formula
P	Cum Sgmt $/Fbr	=SUM(INDIRECT("O"&ROW(P2)&":O"&MATCH($C2,$C$2:$C$3500,0)+1))
	Rural Low =	0.00

Column	Label	Formula
P	Cum Sgmt $/Fbr	=SUM(INDIRECT("O"&ROW(P5)&":O"&MATCH($C5,$C$2:$C$3500,0)+1))
	Rural High =	0.00

Column	Label	Formula
P	Cum Sgmt $/Fbr	=SUM(INDIRECT("O"&ROW(P6)&":O"&MATCH($C6,$C$2:$C$3500,0)+1))
	Urban Low =	203.12

Column	Label	Formula
P	Cum Sgmt $/Fbr	=SUM(INDIRECT("O"&ROW(P10)&":O"&MATCH($C10,$C$2:$C$3500,0)+1))
	Urban High =	1159.93

Description:
This formula accumulates the cost per fiber for all SLC segments in the quadrant from the office to the current CBG segment.

**

Cell:

Column	Label	Formula
Q	Alloc SLC $	=L2*P2
	Rural Low =	0.00

Column	Label	Formula
Q	Alloc SLC $	=L5*P5
	Rural High =	0.00

Column	Label	Formula
Q	Alloc SLC $	=L6*P6
	Urban Low =	203.12

Column	Label	Formula
Q	Alloc SLC $	=L10*P10
	Urban High =	1159.93

Description:
This formula multiplies the cumulative cost per fiber times the number of fibers used by the current CBG.

**
Cell:

Column	Label	Formula
R	TTL # AFC fibers	='Main Logic'!O2
	Rural Low =	4

Column	Label	Formula
R	TTL # AFC fibers	='Main Logic'!O5
	Rural High =	4

Column	Label	Formula
R	TTL # AFC fibers	='Main Logic'!O6
	Urban Low =	0

Column	Label	Formula
R	TTL # AFC fibers	='Main Logic'!O10
	Urban High =	0

Description:
Carry forward of the number of AFC fibers in the "B" feeder segment calculated in main logic.

**
Cell:

Column	Label	Formula
S	HH on AFC	='Main Logic'!M2
	Rural Low =	198

Column	Label	Formula
S	HH on AFC	='Main Logic'!M5
	Rural High =	311

Column	Label	Formula
S	HH on AFC	='Main Logic'!M6
	Urban Low =	0

Column	Label	Formula
S	HH on AFC	='Main Logic'!M10
	Urban High =	0

Description:
Carry forward of the number of households for AFC on the "B" segment.

**
Cell:

Column	Label	Formula
T	AFC B Sgmt $	=Costing!AA5
	Rural Low =	887.26

Column	Label	Formula
T	AFC B Sgmt $	=Costing!AA8
	Rural High =	20297.43

Column	Label	Formula
T	AFC B Sgmt $	=Costing!AA9
	Urban Low =	0.00

Column	Label	Formula
T	AFC B Sgmt $	=Costing!AA13
	Urban High =	0.00

Description:
This formula pulls in the AFC portion of the B segment feeder cost from the costing tab.

**
Cell:

Column	Label	Formula
U	Sgmt $/HH	=IF(S2=0,0,T2/S2)
	Rural Low =	4.48

(If is false)

Column	Label	Formula
U	Sgmt $/HH	=IF(S5=0,0,T5/S5)
	Rural High =	65.27

(If is false)

Column	Label	Formula
U	Sgmt $/HH	=IF(S6=0,0,T6/S6)
	Urban Low =	0.00

(If is true)

Column	Label	Formula
U	Sgmt $/HH	=IF(S10=0,0,T10/S10)
	Urban High =	0.00

(If is true)

Description:

If segment cost for AFC is not zero, this cell calculates an AFC cost per household.

**

Cell:

Column	Label	Formula
V	Cum Sgmt $/HH	=SUM(INDIRECT("U"&ROW(V2)&":U"&MATCH($C2,$C$2:$C$3500,0)+1))
	Rural Low =	4.48

Column	Label	Formula
V	Cum Sgmt $/HH	=SUM(INDIRECT("U"&ROW(V5)&":U"&MATCH($C5,$C$2:$C$3500,0)+1))
	Rural High =	65.27

Column	Label	Formula
V	Cum Sgmt $/HH	=SUM(INDIRECT("U"&ROW(V6)&":U"&MATCH($C6,$C$2:$C$3500,0)+1))
	Urban Low =	0.00

Column	Label	Formula
V	Cum Sgmt $/HH	=SUM(INDIRECT("U"&ROW(V10)&":U"&MATCH($C10,$C$2:$C$3500,0)+1))
	Urban High =	0.00

Description:
This formula, like the SLC and copper equivalents, calculates the cumulative cost of the segments in the quadrant from the office to the current CBG for AFC.

**

Cell:

Column	Label	Formula
W	Alloc AFC $	=IF(F2="AFC",E2*V2,0)
	Rural Low =	0.00

(If is false)

Column	Label	Formula
W	Alloc AFC $	=IF(F5="AFC",E5*V5,0)
	Rural High =	20297.43

(If is true)

Column	Label	Formula
W	Alloc AFC $	=IF(F6="AFC",E6*V6,0)
	Urban Low =	0.00

(If is false)

Column	Label	Formula
W	Alloc AFC $	=IF(F10="AFC",E10*V10,0)
	Urban High =	0.00

(If is false)

Description:
If the current CBG uses AFC facilities, the facility cost for this CBG's portion of the feeder costs is calculated for all segments from the office to the CBG.

LOOP MODULE - COSTING TAB

Cell:

Column	Label	Formula
	Max Feeder Cable Size =	='Main Logic'!AL36
	All CBGs	4200

Description:
Carry forward of the maximum feeder cable size input from Main Logic and Input tabs.

**

Cell:

Column	Label	Formula
	Max Distribution Size =	=Input!Q8
	All CBGs	3600

Description:
Carry forward of the maximum distribution cable size input from Main Logic and Input tabs.

**

Cell:

Column	Label	Formula
	Max Size Fiber Ca	='Input'!Q5
	All CBGs	144

Description:
Carry forward of the maximum fiber feeder cable size input from Main Logic and Input tabs.

**

Cell:

Column	Label	Formula
A	Office	='Main Logic'!A2
	Rural Low =	MNPLUTMA

Column	Label	Formula
A	Office	='Main Logic'!A5
	Rural High =	MNPLUTMA

Column	Label	Formula
A	Office	='Main Logic'!A6
	Urban Low =	OGDNUTNO

Column	Label	Formula
A	Office	='Main Logic'!A10
	Urban High =	OGDNUTNO

Description:
Carry forward of the office CLLI code input from Main Logic tab Column A and Input tab column B.

**

Cell:

Column	Label	Formula
B	Quadrant	='Main Logic'!B2
	Rural Low =	1

Column	Label	Formula
B	Quadrant	='Main Logic'!B5
	Rural High =	4

Column	Label	Formula
B	Quadrant	='Main Logic'!B6
	Urban Low =	1

Column	Label	Formula
B	Quadrant	='Main Logic'!B10
	Urban High =	1

Description:
Carry forward of the feeder quadrant from the main logic and input tabs.

**

Cell:

Column	Label	Formula
C	Distance A	=Input!F2
	Rural Low =	0.00

Column	Label	Formula
C	Distance A	=Input!F5
	Rural High =	0.00

Column	Label	Formula
C	Distance A	=Input!F6
	Urban Low =	0.00

Column	Label	Formula
C	Distance A	=Input!F10
	Urban High =	0.00

Description:
Carry forward of the "A" distance from the input tab

**

Cell:

Column	Label	Formula
D	Distance B	='Main Logic'!E2
	Rural Low =	1476.80

Column	Label	Formula

D	Distance B	='Main Logic'!E5
	Rural High =	34379.12

Column	Label	Formula
D	Distance B	='Main Logic'!E6
	Urban Low =	2658.64

Column	Label	Formula
D	Distance B	='Main Logic'!E10
	Urban High =	2878.19

Description:
Carry forward of the "B" distance from the main logic and input tabs.

COPPER COSTING:

Cell:

Column	Label	Formula
E	Size A	=IF(C5=0,"N/A",'Main Logic'!AA2)
	Rural Low =	N/A

(If is true)

Column	Label	Formula
E	Size A	=IF(C8=0,"N/A",'Main Logic'!AA5)
	Rural High =	N/A

(If is true)

Column	Label	Formula
E	Size A	=IF(C9=0,"N/A",'Main Logic'!AA6)
	Urban Low =	N/A

(If is true)

Column	Label	Formula
E	Size A	=IF(C13=0,"N/A",'Main Logic'!AA10)
	Urban High =	N/A

(If is true)

Description:
Carry forward of the cable size of the "A" feeder segment calculated in main logic if the distance of "A" is not zero.

**

Cell:

Column	Label	Formula
F	Size Last B	='Main Logic'!X2
	Rural Low =	600

Column	Label	Formula
F	Size Last B	='Main Logic'!X5
	Rural High =	0

Column	Label	Formula
F	Size Last B	='Main Logic'!X6
	Urban Low =	1200

Column	Label	Formula
F	Size Last B	='Main Logic'!X10
	Urban High =	0

Description:
Carry forward of the cable size of the "B" feeder segment calculated in main logic.

**
Cell:

Column	Label	Formula
G	#Max Ca in B	='Main Logic'!Y2
	Rural Low =	0

Column	Label	Formula
G	#Max Ca in B	='Main Logic'!Y5
	Rural High =	0

Column	Label	Formula
G	#Max Ca in B	='Main Logic'!Y6
	Urban Low =	0

Column	Label	Formula
G	#Max Ca in B	='Main Logic'!Y10
	Urban High =	0

Description:
Carry forward of the number of maximum size feeder cables calculated in main logic.

**
Cell:

Column	Label	Formula
H	Last B Cost	=IF(F5=0,0,D5*VLOOKUP(F5,$AP$20:$AX$30,VLOOKUP(AM5,$AP$50:$AS$55,4),FALSE))
	Rural Low =	$8395

(If is false)

Column	Label	Formula
H	Last B Cost	=IF(F8=0,0,D8*VLOOKUP(F8,$AP$20:$AX$30,VLOOKUP(AM8,$AP$50:$AS$55,4),FALSE))
	Rural High =	$0

(If is true)

Column	Label	Formula
H	Last B Cost	=IF(F9=0,0,D9*VLOOKUP(F9,$AP$20:$AX$30,VLOOKUP(AM9,$AP$50:$AS$55,4),FALSE))
	Urban Low =	$22426

(If is false)

Column	Label	Formula
H	Last B Cost	=IF(F13=0,0,D13*VLOOKUP(F13,$AP$20:$AX$30,VLOOKUP(AM13,$AP$50:$AS$55,4),FALSE))
	Urban High =	$0

(If is true)

Description:
Multiply the "B" distance from column D by the price per foot found by looking down the first column of the copper feeder cost table for the cable size in column F of this row and across to the column number determined by (looking down the first column of the density table for the density value found in column AM of this row and across to the value in column 4). The result is shown if the size of the residual "B" feeder cable is not zero.

**

Cell:

Column	Label	Formula
I	Max Ca Costs	=D5*G5*VLOOKUP($G$1,$AP$20:$AX$30,VLOOKUP(AM5,$AP$50:$AS$55,4),FALSE)
	Rural Low =	$0

Column	Label	Formula
I	Max Ca Costs	=D8*G8*VLOOKUP($G$1,$AP$20:$AX$30,VLOOKUP(AM8,$AP$50:$AS$55,4),FALSE)
	Rural High =	$0

Column	Label	Formula
I	Max Ca Costs	=D9*G9*VLOOKUP($G$1,$AP$20:$AX$30,VLOOKUP(AM9,$AP$50:$AS$55,4),FALSE)
	Urban Low =	$0

Column	Label	Formula
I	Max Ca Costs	=D13*G13*VLOOKUP($G$1,$AP$20:$AX$30,VLOOKUP(AM13,$AP$50:$AS$55,4),FALSE)
	Urban High =	$0

Description:
Multiply the "B" distance from column D by the number of maximum cables found in column G and by the price per foot found by looking down the first column of the copper feeder cost table for the maximum feeder cable size and across to the column number determined by (looking down the first column of the density table for the density value found in column AM of this row and across to the value in column 4).

**

Cell:

Column	Label	Formula
J	B Sgmt $	=H5+I5
	Rural Low =	$8395

Column	Label	Formula
J	B Sgmt $	=H8+I8
	Rural High =	$0

Column	Label	Formula
J	B Sgmt $	=H9+I9

	Urban Low =	$22426

Column	Label	Formula
J	B Sgmt $	=H13+I13
	Urban High =	$0

Description:
Determine the total "B" segment cost by summing the maximum size cable costs and the residual size cable costs.

**
Cell:

Column	Label	Formula
K	A Sgmt $	=IF(OR(C5=0,E5=0),0,C5*VLOOKUP(E5,$AP$20:$AX$30,VLOOKUP(AM5,$AP$50:$AS$55,4),FALSE))
	Rural Low =	$0

(If is true)

Column	Label	Formula
K	A Sgmt $	=IF(OR(C8=0,E8=0),0,C8*VLOOKUP(E8,$AP$20:$AX$30,VLOOKUP(AM8,$AP$50:$AS$55,4),FALSE))
	Rural High =	$0

(If is true)

Column	Label	Formula
K	A Sgmt $	=IF(OR(C9=0,E9=0),0,C9*VLOOKUP(E9,$AP$20:$AX$30,VLOOKUP(AM9,$AP$50:$AS$55,4),FALSE))
	Urban Low =	$0

(If is true)

Column	Label	Formula
K	A Sgmt $	=IF(OR(C13=0,E13=0),0,C13*VLOOKUP(E13,$AP$20:$AX$30,VLOOKUP(AM13,$AP$50:$AS$55,4),FALSE))
	Urban High =	$0

(If is true)

Description:
If either the distance "A" or "A" feeder cable size are not zero, multiply the "A" distance times the price per foot found by looking down the feeder cost table for the number of pairs for "A" from column E and across to the column number determined by looking down the density table for the density in column AM and across to column 4.

**
Cell:

Column	Label	Formula
L	BG $ w/realloc	=K5+'Shared Allocation'!K2
	Rural Low =	$8395

Column	Label	Formula
L	BG $ w/realloc	=K8+'Shared Allocation'!K5
	Rural High =	$0

Column	Label	Formula
L	BG $ w/realloc	=K9+'Shared Allocation'!K6
	Urban Low =	$8028

Column	Label	Formula
L	BG $ w/realloc	=K13+'Shared Allocation'!K10
	Urban High =	$0

Description:
Determine the total cost of the block group feeder cable by summing the "A" subfeeder from column K and the "B" portion of the feeder that is allocated to this specific CBG from shared allocation tab column K.

**
Cell:

Column	Label	Formula
M	Structure $	=L5*'Main Logic'!T2
	Rural Low =	$2108

Column	Label	Formula
M	Structure $	=L8*'Main Logic'!T5
	Rural High =	$0

Column	Label	Formula
M	Structure $	=L9*'Main Logic'!T6
	Urban Low =	$1850

Column	Label	Formula
M	Structure $	=L13*'Main Logic'!T10
	Urban High =	$0

Description:
The structure cost is determined by multiplying the CBG feeder cost from column L by the structure factor computed for the CBG in main logic column T.

**
Cell:

Column	Label	Formula
N	Cpr BG $	=L5+M5
	Rural Low =	$10503

Column	Label	Formula
N	Cpr BG $	=L8+M8
	Rural High =	$0

Column	Label	Formula
N	Cpr BG $	=L9+M9
	Urban Low =	$9878

Column	Label	Formula
N	Cpr BG $	=L13+M13
	Urban High =	$0

Description:
The total copper feeder cost is determined by summing the cable cost from column L and the structure cost from column M.

FIBER COSTING:

Cell:

Column	Label	Formula
O	Size A	=IF(AND(NOT(C5=0),OR('Main Logic'!F2="AFC",'Main Logic'!F2="SLC")),12,"N/A")
	Rural Low =	N/A

(If is false)

Column	Label	Formula
O	Size A	=IF(AND(NOT(C8=0),OR('Main Logic'!F5="AFC",'Main Logic'!F5="SLC")),12,"N/A")
	Rural High =	N/A

(If is false)

Column	Label	Formula
O	Size A	=IF(AND(NOT(C9=0),OR('Main Logic'!F6="AFC",'Main Logic'!F6="SLC")),12,"N/A")
	Urban Low =	N/A

(If is false)

Column	Label	Formula
O	Size A	=IF(AND(NOT(C13=0),OR('Main Logic'!F10="AFC",'Main Logic'!F10="SLC")),12,"N/A")
	Urban High =	N/A

(If is false)

Description:
If the "A" distance is not zero and the CBG is served by SLC or AFC (computed in main logic column F), a 12 fiber cable is sized otherwise "N/A" is shown.

**

Cell:

Column	Label	Formula
P	A $	=IF(O5="N/A",0,C5*VLOOKUP(O5,$AP$6:$AX$14,VLOOKUP(AM5,$AP$50:$AS$55,4),FALSE))
	Rural Low =	0.00

(If is true)

Column	Label	Formula
P	A $	=IF(O8="N/A",0,C8*VLOOKUP(O8,$AP$6:$AX$14,VLOOKUP(AM8,$AP$50:$AS$55,4),FALSE))
	Rural High =	0.00

(If is true)

Column	Label	Formula

P	A $	=IF(O9="N/A",0,C9*VLOOKUP(O9,$AP$6:$AX$14,VLOOKUP(AM9,$AP$50:$AS$55,4),FALSE))
	Urban Low =	0.00

(If is true)

Column	Label	Formula
P	A $	=IF(O13="N/A",0,C13*VLOOKUP(O13,$AP$6:$AX$14,VLOOKUP(AM13,$AP$50:$AS$55,4),FALSE))
	Urban High =	0.00

(If is true)

Description:
If the "A" feeder fiber cable size is not "N/A", the cost of the subfeeder fiber is determined by multiplying the "A" subfeeder distance from column C by the cost per foot found by looking down column 1 of the fiber pricing table for the value from column O and across to the column number determined by looking down column 1 of the density table for the density in column AM and across to column 4.

**

Cell:

Column	Label	Formula
Q	# Max Size B	='Main Logic'!AG2
	Rural Low =	0

Column	Label	Formula
Q	# Max Size B	='Main Logic'!AG5
	Rural High =	0

Column	Label	Formula
Q	# Max Size B	='Main Logic'!AG6
	Urban Low =	0

Column	Label	Formula
Q	# Max Size B	='Main Logic'!AG10
	Urban High =	0

Description:
The number of maximum size "B" feeder segment fiber cables is carried forward from main logic column AG.

**

Cell:

Column	Label	Formula
R	$ Max B Ca	=D5*Q5*VLOOKUP($Q$1,$AP$6:$AX$14,VLOOKUP(AM5,$AP$50:$AS$55,4),FALSE)
	Rural Low =	0.00

Column	Label	Formula
R	$ Max B Ca	=D8*Q8*VLOOKUP($Q$1,$AP$6:$AX$14,VLOOKUP(AM8,$AP$50:$AS$55,4),FALSE)
	Rural High =	0.00

Column	Label	Formula
R	$ Max B Ca	=D9*Q9*VLOOKUP($Q$1,$AP$6:$AX$14,VLOOKUP(AM9,$AP$50:$AS$55,4),FALSE)

	Urban Low =	0.00

Column	Label	Formula
R	$ Max B Ca	=D13*Q13*VLOOKUP($Q$1,$AP$6:$AX$14,VLOOKUP(AM13,$AP$50:$AS$55,4),FALSE)
	Urban High =	0.00

Description:
This calculates the cost of the maximum size fiber cables in the "B" segment if applicable. It is distance times the number of maximum cables times the value found when looking down the fiber cost table for the maximum size fiber cable and across to the column number found by looking down the density table for the density value from column AM and across to column 4.

**
Cell:

Column	Label	Formula
S	Size Last B	='Main Logic'!AH2
	Rural Low =	12

Column	Label	Formula
S	Size Last B	='Main Logic'!AH5
	Rural High =	12

Column	Label	Formula
S	Size Last B	='Main Logic'!AH6
	Urban Low =	12

Column	Label	Formula
S	Size Last B	='Main Logic'!AH10
	Urban High =	12

Description:
The size of the residual "B" feeder segment fiber cable is carried forward from main logic column AH.

**
Cell:

Column	Label	Formula
T	$ Last B	=IF(S5=0,0,D5*VLOOKUP(S5,$AP$6:$AX$14,VLOOKUP(AM5,$AP$50:$AS$55,4),FALSE))
	Rural Low =	887.26

(If is false)

Column	Label	Formula
T	$ Last B	=IF(S8=0,0,D8*VLOOKUP(S8,$AP$6:$AX$14,VLOOKUP(AM8,$AP$50:$AS$55,4),FALSE))
	Rural High =	20297.43

(If is false)

Column	Label	Formula
T	$ Last B	=IF(S9=0,0,D9*VLOOKUP(S9,$AP$6:$AX$14,VLOOKUP(AM9,$AP$50:$AS$55,4),FALSE))
	Urban Low =	1624.96

(If is false)

Column	Label	Formula
T	$ Last B	=IF(S13=0,0,D13*VLOOKUP(S13,$AP$6:$AX$14,VLOOKUP(AM13,$AP$50:$AS$55,4),FA

LSE))
Urban High = 1714.25
(If is false)

Description:
The cost of the residual size "B" fiber feeder cable is calculated by multiplying the "B" distance from column D times the cost per foot of the fiber size found by looking down column 1 of the fiber cable cost table to the size of the cable from column S and across to the column number found by looking down column 1 of the density table for the density found in column AM and across to column 4.

**

Costing for SLC:

Cell:

Column	Label	Formula
U	SLC B Sgmt $	=IF(S5=0,0,('Main Logic'!L2/'Main Logic'!AF2)*(R5+T5))
	Rural Low =	0.00

(If is false)

Column	Label	Formula
U	SLC B Sgmt $	=IF(S8=0,0,('Main Logic'!L5/'Main Logic'!AF5)*(R8+T8))
	Rural High =	0.00

(If is false)

Column	Label	Formula
U	SLC B Sgmt $	=IF(S9=0,0,('Main Logic'!L6/'Main Logic'!AF6)*(R9+T9))
	Urban Low =	1624.96

(If is false)

Column	Label	Formula
U	SLC B Sgmt $	=IF(S13=0,0,('Main Logic'!L10/'Main Logic'!AF10)*(R13+T13))
	Urban High =	1714.25

(If is false)

Description:
If the number of fibers calculated in column S is not zero, then the cost of the SLC "B" segment fiber is calculated by multiplying the ratio of SLC fibers (main logic column L) to total fibers (main logic column AF) times the sum of the maximum cable cost from column R and the residual cable cost from column T for the segment.

**

Cell:

Column	Label	Formula
V	SLC A Sgmt $	=IF('Main Logic'!F2="SLC",P5,0)
	Rural Low =	0.00

(If is false)

Column	Label	Formula
V	SLC A Sgmt $	=IF('Main Logic'!F5="SLC",P8,0)
	Rural High =	0.00

(If is false)

Column	Label	Formula
V	SLC A Sgmt $	=IF('Main Logic'!F6="SLC",P9,0)
	Urban Low =	0.00

(If is false)

Column	Label	Formula
V	SLC A Sgmt $	=IF('Main Logic'!F10="SLC",P13,0)
	Urban High =	0.00

(If is true)

Description:
If the main logic designated this CBG to be served by SLC, then the cost of the "A" segment cable is transferred from column P.

**

Cell:

Column	Label	Formula
W	BG $ w/realloc	=V5+'Shared Allocation'!Q2
	Rural Low =	0.00

Column	Label	Formula
W	BG $ w/realloc	=V8+'Shared Allocation'!Q5
	Rural High =	0.00

Column	Label	Formula
W	BG $ w/realloc	=V9+'Shared Allocation'!Q6
	Urban Low =	0.00

Column	Label	Formula
W	BG $ w/realloc	=V13+'Shared Allocation'!Q10
	Urban High =	4639.74

Description:
The total SLC cable cost is calculated by summing the "A" segment cost from column V and this CBG's portion of the "B" feeder cost from the office to the intersection with "A" (Shared Allocation tab column Q).

**

Cell:

Column	Label	Formula
X	Structure $	=W5*'Main Logic'!U2
	Rural Low =	0.00

Column	Label	Formula
X	Structure $	=W8*'Main Logic'!U5
	Rural High =	0.00

Column	Label	Formula
X	Structure $	=W9*'Main Logic'!U6

	Urban Low =	0.00

Column	Label	Formula
X	Structure $	=W13*'Main Logic'!U10
	Urban High =	15949.09

Description:
The structure cost is calculated by multiplying the cable cost from column W by the structure multiplier calculated for this CBG in main logic column U. (See Note 1, page 24.)

**
Cell:

Column	Label	Formula
Y	Electronics $	=IF('Main Logic'!F2="SLC",$AV$66*AN5,0)
	Rural Low =	0.00

(If is false)

Column	Label	Formula
Y	Electronics $	=IF('Main Logic'!F5="SLC",$AV$66*AN8,0)
	Rural High =	0.00

(If is false)

Column	Label	Formula
Y	Electronics $	=IF('Main Logic'!F6="SLC",$AV$66*AN9,0)
	Urban Low =	0.00

(If is false)

Column	Label	Formula
Y	Electronics $	=IF('Main Logic'!F10="SLC",$AV$66*AN13,0)
	Urban High =	18000.00

(If is true)

Description:
The SLC electronics cost is calculated by multiplying the SLC electronics cost per line from cell AV66 by the number of CBG lines in column AN.

**
Cell:

Column	Label	Formula
Z	SLC $	=SUM(W5:Y5)
	Rural Low =	0.00

Column	Label	Formula
Z	SLC $	=SUM(W8:Y8)
	Rural High =	0.00

Column	Label	Formula
Z	SLC $	=SUM(W9:Y9)
	Urban Low =	0.00

Column	Label	Formula
Z	SLC $	=SUM(W13:Y13)

Urban High = 38588.83

Description:
The total SLC costs are calculated by summing the cable cost from column W plus the structure cost from column X and the electronics cost from column Y.

Costing for AFC:

Cell:

Column	Label	Formula
AA	AFC B Sgmt $	=IF(S5=0,0,('Main Logic'!O2/'Main Logic'!AF2)*(R5+T5))
	Rural Low =	887.28

(If is false)

Column	Label	Formula
AA	AFC B Sgmt $	=IF(S8=0,0,('Main Logic'!O5/'Main Logic'!AF5)*(R8+T8))
	Rural High =	20297.43

(If is false)

Column	Label	Formula
AA	AFC B Sgmt $	=IF(S9=0,0,('Main Logic'!O6/'Main Logic'!AF6)*(R9+T9))
	Urban Low =	0.00

(If is false)

Column	Label	Formula
AA	AFC B Sgmt $	=IF(S13=0,0,('Main Logic'!O10/'Main Logic'!AF10)*(R13+T13))
	Urban High =	0.00

(If is false)

Description:
If the number of fibers calculated in column S is not zero, then the cost of the AFC "B" segment fiber is calculated by multiplying the ratio of AFC fibers (main logic column O) to total fibers (main logic column AF) times the sum of the maximum cable cost from column R and the residual cable cost from column T for the segment.

**

Cell:

Column	Label	Formula
AB	A Sgmt $	=IF('Main Logic'!F2="AFC",P5,0)
	Rural Low =	0.00

(If is false)

Column	Label	Formula
AB	A Sgmt $	=IF('Main Logic'!F5="AFC",P8,0)
	Rural High =	0.00

(If is false)

Column	Label	Formula

AB	A Sgmt $	=IF('Main Logic'!F6="AFC",P9,0)
	Urban Low =	0.00

(If is true)

Column	Label	Formula
AB	A Sgmt $	=IF('Main Logic'!F10="AFC",P13,0)
	Urban High =	0.00

(If is false)

Description:
If the main logic (Column F) assigns AFC to this CBG, the "A" subfeeder cost is transferred here.

**

Cell:

Column	Label	Formula
AC	BG $ w/realloc	=AB5+'Shared Allocation'!W2
	Rural Low =	0.00

Column	Label	Formula
AC	BG $ w/realloc	=AB8+'Shared Allocation'!W5
	Rural High =	20297.43

Column	Label	Formula
AC	BG $ w/realloc	=AB9+'Shared Allocation'!W6
	Urban Low =	0.00

Column	Label	Formula
AC	BG $ w/realloc	=AB13+'Shared Allocation'!W10
	Urban High =	0.00

Description:
The total AFC cable cost is calculated by summing the "A" subfeeder cost from column AB plus the portion assigned to this CBG of the "B" feeder cost from the office to the intersection with the "A" segment.

**

Cell:

Column	Label	Formula
AD	Structure $	=AC5*'Main Logic'!U2
	Rural Low =	0.00

Column	Label	Formula
AD	Structure $	=AC8*'Main Logic'!U5
	Rural High =	41203.79

Column	Label	Formula
AD	Structure $	=AC9*'Main Logic'!U6
	Urban Low =	0.00

Column	Label	Formula
AD	Structure $	=AC13*'Main Logic'!U10