

### Shawnee Exhibit 3.07 Updated HAI 5.0a Model Input Changes

The following is a comprehensive list of the HAI 5.0a model and input changes made for the Shawnee scenario. The changes are broken into five lists. The first list includes the changes made by Schoonmaker/ITTA to the HAI Interface and is labeled “Schoonmaker Input Changes.” The second list includes the input changes made by PB&A, and is labeled “PB&A Input Changes.” The third list includes demand changes made by PB&A, and is labeled “PB&A Demand Changes.” The fourth list includes factor/investment changes made by PB&A, and is labeled “PB&A Factor/Investment Changes.” The final list shows additional changes made by Schoonmaker/IITA which includes Distance (IL\_Distance), Host-Remote assignment, and switching input changes in the HAI Switching Module.

#### Schoonmaker Input Changes

The following is a comprehensive list of the Schoonmaker Input Changes, and the list includes the input changed and the corresponding steps necessary to change each input in the HAI 5.0a model. The inputs are located in the HAI 5.0a model under the HM Inputs menu choice.

##### *Distribution Inputs:*

1) Buried Fraction – 0: Distribution Inputs → Placement Fraction → Buried Fraction  
Buried Fraction – 5: Distribution Inputs → Placement Fraction → Buried Fraction  
Buried Fraction – 100: Distribution Inputs → Placement Fraction → Buried Fraction  
Buried Fraction – 200: Distribution Inputs → Placement Fraction → Buried Fraction  
Buried Fraction – 650: Distribution Inputs → Placement Fraction → Buried Fraction  
Buried Fraction – 850: Distribution Inputs → Placement Fraction → Buried Fraction  
Buried Fraction – 2550: Distribution Inputs → Placement Fraction → Buried Fraction  
Buried Fraction – 5000: Distribution Inputs → Placement Fraction → Buried Fraction  
Buried Fraction – 10000: Distribution Inputs → Placement Fraction → Buried Fraction

2) Aerial Cable Fraction – 0: Distribution Inputs → Placement Fraction → Aerial Fraction  
Aerial Cable Fraction – 5: Distribution Inputs → Placement Fraction → Aerial Fraction  
Aerial Cable Fraction – 100: Distribution Inputs → Placement Fraction → Aerial Fraction  
Aerial Cable Fraction – 200: Distribution Inputs → Placement Fraction → Aerial Fraction  
Aerial Cable Fraction – 650: Distribution Inputs → Placement Fraction → Aerial Fraction  
Aerial Cable Fraction – 850: Distribution Inputs → Placement Fraction → Aerial Fraction  
Aerial Cable Fraction – 2550: Distribution Inputs → Placement Fraction → Aerial Fraction  
Aerial Cable Fraction – 5000: Distribution Inputs → Placement Fraction → Aerial Fraction

Aerial Cable Fraction – 10000: Distribution Inputs → Placement Fraction → Aerial Fraction

- 3) Buried Drop Sharing Fraction – 0: Distribution Inputs → Drop → Buried Drop Sharing Fract  
Buried Drop Sharing Fraction – 5: Distribution Inputs → Drop → Buried Drop Sharing Fract  
Buried Drop Sharing Fraction – 100: Distribution Inputs → Drop → Buried Drop Sharing Fract  
Buried Drop Sharing Fraction – 200: Distribution Inputs → Drop → Buried Drop Sharing Fract  
Buried Drop Sharing Fraction – 650: Distribution Inputs → Drop → Buried Drop Sharing Fract  
Buried Drop Sharing Fraction – 850: Distribution Inputs → Drop → Buried Drop Sharing Fract  
Buried Drop Sharing Fraction – 2550: Distribution Inputs → Drop → Buried Drop Sharing Fract  
Buried Drop Sharing Fraction – 5000: Distribution Inputs → Drop → Buried Drop Sharing Fract  
Buried Drop Sharing Fraction – 10000: Distribution Inputs → Drop → Buried Drop Sharing Fract

- 4) Buried Drop Fraction – 0: Distribution Inputs → Drop → Buried Drop Fraction  
Buried Drop Fraction – 5: Distribution Inputs → Drop → Buried Drop Fraction  
Buried Drop Fraction – 100: Distribution Inputs → Drop → Buried Drop Fraction  
Buried Drop Fraction – 200: Distribution Inputs → Drop → Buried Drop Fraction  
Buried Drop Fraction – 650: Distribution Inputs → Drop → Buried Drop Fraction  
Buried Drop Fraction – 850: Distribution Inputs → Drop → Buried Drop Fraction  
Buried Drop Fraction – 2550: Distribution Inputs → Drop → Buried Drop Fraction  
Buried Drop Fraction – 5000: Distribution Inputs → Drop → Buried Drop Fraction  
Buried Drop Fraction – 10000: Distribution Inputs → Drop → Buried Drop Fraction

*Feeder Inputs:*

- 5) Copper Aerial Fraction – 0: Feeder Inputs → Copper Placement → Aerial Fraction  
Copper Aerial Fraction – 5: Feeder Inputs → Copper Placement → Aerial Fraction  
Copper Aerial Fraction – 100: Feeder Inputs → Copper Placement → Aerial Fraction  
Copper Aerial Fraction – 200: Feeder Inputs → Copper Placement → Aerial Fraction  
Copper Aerial Fraction – 650: Feeder Inputs → Copper Placement → Aerial Fraction  
Copper Aerial Fraction – 850: Feeder Inputs → Copper Placement → Aerial Fraction  
Copper Aerial Fraction – 2550: Feeder Inputs → Copper Placement → Aerial Fraction  
Copper Aerial Fraction – 5000: Feeder Inputs → Copper Placement → Aerial Fraction
- 6) Copper Buried Fraction – 0: Feeder Inputs → Copper Placement → Buried Fraction  
Copper Buried Fraction – 5: Feeder Inputs → Copper Placement → Buried Fraction  
Copper Buried Fraction – 100: Feeder Inputs → Copper Placement → Buried Fraction  
Copper Buried Fraction – 200: Feeder Inputs → Copper Placement → Buried Fraction

Copper Buried Fraction – 650: Feeder Inputs → Copper Placement → Buried Fraction  
Copper Buried Fraction – 850: Feeder Inputs → Copper Placement → Buried Fraction  
Copper Buried Fraction – 2550: Feeder Inputs → Copper Placement → Buried Fraction  
Copper Buried Fraction – 5000: Feeder Inputs → Copper Placement → Buried Fraction  
Copper Buried Fraction – 10000: Feeder Inputs → Copper Placement → Buried Fraction

7) Fiber Aerial Fraction – 0: Feeder Inputs → Fiber Placement → Aerial Fraction  
Fiber Aerial Fraction – 5: Feeder Inputs → Fiber Placement → Aerial Fraction  
Fiber Aerial Fraction – 100: Feeder Inputs → Fiber Placement → Aerial Fraction  
Fiber Aerial Fraction – 200: Feeder Inputs → Fiber Placement → Aerial Fraction  
Fiber Aerial Fraction – 650: Feeder Inputs → Fiber Placement → Aerial Fraction  
Fiber Aerial Fraction – 850: Feeder Inputs → Fiber Placement → Aerial Fraction  
Fiber Aerial Fraction – 2550: Feeder Inputs → Fiber Placement → Aerial Fraction  
Fiber Aerial Fraction – 5000: Feeder Inputs → Fiber Placement → Aerial Fraction

8) Fiber Buried Fraction – 0: Feeder Inputs → Fiber Placement → Buried Fraction  
Fiber Buried Fraction – 5: Feeder Inputs → Fiber Placement → Buried Fraction  
Fiber Buried Fraction – 100: Feeder Inputs → Fiber Placement → Buried Fraction  
Fiber Buried Fraction – 200: Feeder Inputs → Fiber Placement → Buried Fraction  
Fiber Buried Fraction – 650: Feeder Inputs → Fiber Placement → Buried Fraction  
Fiber Buried Fraction – 850: Feeder Inputs → Fiber Placement → Buried Fraction  
Fiber Buried Fraction – 2550: Feeder Inputs → Fiber Placement → Buried Fraction  
Fiber Buried Fraction – 5000: Feeder Inputs → Fiber Placement → Buried Fraction  
Fiber Buried Fraction – 10000: Feeder Inputs → Fiber Placement → Buried Fraction

*Switching Inputs:*

9) Switch Port Administrative Fill: Switching Inputs → End Office Switching → Switch port administrative fill

10) MDF/Protector Investment per Line: Switching Inputs → End Office Switching → MDF/protector investment per line

11) Analog Line Circuit Offset for DLC Line, per line: Switching Inputs → End Office Switching → Analog line circuit offset of DLC per line

12) Switch Installation Multiplier: Switching Inputs → End Office Switching → Switch installation multiplier

13) Total Interoffice Traffic Fraction: Switching Inputs → Transmission Parameters → Total Interoffice Traffic Fraction

14) Tandem-routed Fraction of Total IntraLATA Traffic: Switching Inputs → Transmission Parameters → Tandem-Routed fraction of intraLATA toll traffic

15) Tandem-routed Fraction of Total InterLATA Traffic: Switching Inputs → Transmission Parameters → Tandem-Routed fraction of interLATA traffic

16) Common Equipment Investment: Switching Inputs → Tandem Switching → Common Equipment Investment

17) Power Investment 1: Switching Inputs → Wirecenter → Power

Power Investment 2: Switching Inputs → Wirecenter → Power

Power Investment 3: Switching Inputs → Wirecenter → Power

Power Investment 4: Switching Inputs → Wirecenter → Power

Power Investment 5: Switching Inputs → Wirecenter → Power

18) Switch Room Size, sq ft 5: Switching Inputs → Wirecenter → Switch Room Size sq ft

Construction Investment, sq ft 5: Switching Inputs → Wirecenter → Construction sq ft

Land Investment, sq ft 5: Switching Inputs → Wirecenter → Land sq ft

19) Fiber Investment, buried fraction: Switching Inputs → Interoffice Investment → Buried Fraction

20) Fiber, aerial fraction: Switching Inputs → Interoffice Investment → Aerial Fraction

21) Fraction of Aerial Structure Assigned to Telephone: Switching Inputs → Interoffice Investment → Fraction of aerial structure assigned to telephone

22) Fraction of Buried Structure Assigned to Telephone: Switching Inputs → Interoffice Investment → Fraction of buried structure assigned to telephone

23) Fraction of Underground Structure Assigned to Telephone: Switching Inputs → Interoffice Investment → Fraction of underground structure assigned to telephone

24) Use host – remote assignments: Switching Inputs → Host/Remote Assignment → Use host-remote assignments

25) ICO standalone fixed inv – 1: Switching Inputs → Host/Remote Investment → Small ICOs → Standalone fixed investment

ICO standalone fixed inv – 2: Switching Inputs → Host/Remote Investment → Small ICOs → Standalone fixed investment

ICO standalone fixed inv – 3: Switching Inputs → Host/Remote Investment → Small ICOs → Standalone fixed investment

ICO standalone fixed inv – 4: Switching Inputs → Host/Remote Investment → Small ICOs → Standalone fixed investment

26) ICO host fixed inv – 1: Switching Inputs → Host/Remote Investment → Small ICOs → Host fixed investment

ICO host fixed inv – 2: Switching Inputs → Host/Remote Investment → Small ICOs → Host fixed investment

ICO host fixed inv – 3: Switching Inputs → Host/Remote Investment → Small ICOs → Host fixed investment

ICO host fixed inv – 4: Switching Inputs → Host/Remote Investment → Small ICOs → Host fixed investment

27) ICO remote fixed inv – 1: Switching Inputs → Host/Remote Investment → Small ICOs → Remote fixed investment

ICO remote fixed inv – 2: Switching Inputs → Host/Remote Investment → Small ICOs → Remote fixed investment

ICO remote fixed inv – 3: Switching Inputs → Host/Remote Investment → Small ICOs → Remote fixed investment

ICO remote fixed inv – 4: Switching Inputs → Host/Remote Investment → Small ICOs → Remote fixed investment

28) ICO standalone per line inv – 1: Switching Inputs → Host/Remote Investment → Small ICOs → Standalone per line investment

ICO standalone per line inv – 2: Switching Inputs → Host/Remote Investment → Small ICOs → Standalone per line investment

ICO standalone per line inv – 3: Switching Inputs → Host/Remote Investment → Small ICOs → Standalone per line investment

ICO standalone per line inv – 4: Switching Inputs → Host/Remote Investment → Small ICOs → Standalone per line investment

29) ICO host per line inv – 1: Switching Inputs → Host/Remote Investment → Small ICOs → Host per line investment

ICO host per line inv – 2: Switching Inputs → Host/Remote Investment → Small ICOs → Host per line investment

ICO host per line inv – 3: Switching Inputs → Host/Remote Investment → Small ICOs → Host per line investment

ICO host per line inv – 4: Switching Inputs → Host/Remote Investment → Small ICOs → Host per line investment

30) ICO remote per line inv – 1: Switching Inputs → Host/Remote Investment → Small ICOs → Remote per line investment

ICO remote per line inv – 2: Switching Inputs → Host/Remote Investment → Small ICOs → Remote per line investment

ICO remote per line inv – 3: Switching Inputs → Host/Remote Investment → Small ICOs → Remote per line investment

ICO remote per line inv – 4: Switching Inputs → Host/Remote Investment → Small ICOs → Remote per line investment

*Expense Inputs:*

31) Cost of Debt: Expense Inputs → Cost of Capital → Cost of Debt

32) Debt Fraction: Expense Inputs → Cost of Capital → Debt Fraction

33) Cost of Equity: Expense Inputs → Cost of Capital → Cost of Equity

- 34) Billing/Bill Inquiry per line per month: Expense Inputs → Other → Billing/Bill Inquiry per line per month
- 35) Forward-looking Network Operations Factor: Expense Inputs → Other → Forward-looking Network Operations Factor
- 36) Alternative CO Switching Factor: Expense Inputs → Other → Alternative CO Switching Factor
- 37) Alternative Circuit Equipment Factor: Expense Inputs → Other → Alternative Circuit Equipment Factor
- 38) EO Traffic Sensitive Fraction: Expense Inputs → Other → EO Non Line Port Cost Fraction
- 39) Carrier to Carrier Customer Service, per line per year: Expense Inputs → Other → Carrier to Carrier Customer Service, per line per year
- 40) Distribution Aerial Shring Fraction – 0: Expense Inputs → Structure Fraction Assigned to Telephone → Dist Aerial  
Distribution Aerial Shring Fraction – 5: Expense Inputs → Structure Fraction Assigned to Telephone → Dist Aerial  
Distribution Aerial Shring Fraction – 100: Expense Inputs → Structure Fraction Assigned to Telephone → Dist Aerial  
Distribution Aerial Shring Fraction – 200: Expense Inputs → Structure Fraction Assigned to Telephone → Dist Aerial  
Distribution Aerial Shring Fraction – 650: Expense Inputs → Structure Fraction Assigned to Telephone → Dist Aerial  
Distribution Aerial Shring Fraction – 850: Expense Inputs → Structure Fraction Assigned to Telephone → Dist Aerial  
Distribution Aerial Shring Fraction – 2550: Expense Inputs → Structure Fraction Assigned to Telephone → Dist Aerial  
Distribution Aerial Shring Fraction – 5000: Expense Inputs → Structure Fraction Assigned to Telephone → Dist Aerial  
Distribution Aerial Shring Fraction – 10000: Expense Inputs → Structure Fraction Assigned to Telephone → Dist Aerial
- 41) Distribution Buried Shring Fraction – 0: Expense Inputs → Structure Fraction Assigned to Telephone → Dist Buried  
Distribution Buried Shring Fraction – 5: Expense Inputs → Structure Fraction Assigned to Telephone → Dist Buried  
Distribution Buried Shring Fraction – 100: Expense Inputs → Structure Fraction Assigned to Telephone → Dist Buried  
Distribution Buried Shring Fraction – 200: Expense Inputs → Structure Fraction Assigned to Telephone → Dist Buried  
Distribution Buried Shring Fraction – 650: Expense Inputs → Structure Fraction Assigned to Telephone → Dist Buried

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Distribution Buried Shring Fraction – 850: Expense Inputs → Structure Fraction Assigned to Telephone → Dist Buried  
Distribution Buried Shring Fraction – 2550: Expense Inputs → Structure Fraction Assigned to Telephone → Dist Buried  
Distribution Buried Shring Fraction – 5000: Expense Inputs → Structure Fraction Assigned to Telephone → Dist Buried  
Distribution Buried Shring Fraction – 10000: Expense Inputs → Structure Fraction Assigned to Telephone → Dist Buried

42) Distribution Underground Shring Fraction – 5: Expense Inputs → Structure Fraction Assigned to Telephone → Dist Underground  
Distribution Underground Shring Fraction – 100: Expense Inputs → Structure Fraction Assigned to Telephone → Dist Underground  
Distribution Underground Shring Fraction – 200: Expense Inputs → Structure Fraction Assigned to Telephone → Dist Underground  
Distribution Underground Shring Fraction – 650: Expense Inputs → Structure Fraction Assigned to Telephone → Dist Underground  
Distribution Underground Shring Fraction – 850: Expense Inputs → Structure Fraction Assigned to Telephone → Dist Underground  
Distribution Underground Shring Fraction – 2550: Expense Inputs → Structure Fraction Assigned to Telephone → Dist Underground  
Distribution Underground Shring Fraction – 5000: Expense Inputs → Structure Fraction Assigned to Telephone → Dist Underground  
Distribution Underground Shring Fraction – 10000: Expense Inputs → Structure Fraction Assigned to Telephone → Dist Underground

43) Feeder Aerial Shring Fraction – 0: Expense Inputs → Structure Fraction Assigned to Telephone → Feeder Aerial  
Feeder Aerial Shring Fraction – 5: Expense Inputs → Structure Fraction Assigned to Telephone → Feeder Aerial  
Feeder Aerial Shring Fraction – 100: Expense Inputs → Structure Fraction Assigned to Telephone → Feeder Aerial  
Feeder Aerial Shring Fraction – 200: Expense Inputs → Structure Fraction Assigned to Telephone → Feeder Aerial  
Feeder Aerial Shring Fraction – 650: Expense Inputs → Structure Fraction Assigned to Telephone → Feeder Aerial  
Feeder Aerial Shring Fraction – 850: Expense Inputs → Structure Fraction Assigned to Telephone → Feeder Aerial  
Feeder Aerial Shring Fraction – 2550: Expense Inputs → Structure Fraction Assigned to Telephone → Feeder Aerial  
Feeder Aerial Shring Fraction – 5000: Expense Inputs → Structure Fraction Assigned to Telephone → Feeder Aerial  
Feeder Aerial Shring Fraction – 10000: Expense Inputs → Structure Fraction Assigned to Telephone → Feeder Aerial

44) Feeder Underground Shring Fraction – 0: Expense Inputs → Structure Fraction Assigned to Telephone → Feeder Underground  
Feeder Underground Shring Fraction – 5: Expense Inputs → Structure Fraction Assigned to Telephone → Feeder Underground  
Feeder Underground Shring Fraction – 100: Expense Inputs → Structure Fraction Assigned to Telephone → Feeder Underground  
Feeder Underground Shring Fraction – 200: Expense Inputs → Structure Fraction Assigned to Telephone → Feeder Underground  
Feeder Underground Shring Fraction – 650: Expense Inputs → Structure Fraction Assigned to Telephone → Feeder Underground  
Feeder Underground Shring Fraction – 850: Expense Inputs → Structure Fraction Assigned to Telephone → Feeder Underground  
Feeder Underground Shring Fraction – 2550: Expense Inputs → Structure Fraction Assigned to Telephone → Feeder Underground  
Feeder Underground Shring Fraction – 5000: Expense Inputs → Structure Fraction Assigned to Telephone → Feeder Underground  
Feeder Underground Shring Fraction – 10000: Expense Inputs → Structure Fraction Assigned to Telephone → Feeder Underground

45) Feeder Buried Shring Fraction – 0: Expense Inputs → Structure Fraction Assigned to Telephone → Feeder Buried  
Feeder Buried Shring Fraction – 5: Expense Inputs → Structure Fraction Assigned to Telephone → Feeder Buried  
Feeder Buried Shring Fraction – 100: Expense Inputs → Structure Fraction Assigned to Telephone → Feeder Buried  
Feeder Buried Shring Fraction – 200: Expense Inputs → Structure Fraction Assigned to Telephone → Feeder Buried  
Feeder Buried Shring Fraction – 650: Expense Inputs → Structure Fraction Assigned to Telephone → Feeder Buried  
Feeder Buried Shring Fraction – 850: Expense Inputs → Structure Fraction Assigned to Telephone → Feeder Buried  
Feeder Buried Shring Fraction – 2550: Expense Inputs → Structure Fraction Assigned to Telephone → Feeder Buried  
Feeder Buried Shring Fraction – 5000: Expense Inputs → Structure Fraction Assigned to Telephone → Feeder Buried  
Feeder Buried Shring Fraction – 10000: Expense Inputs → Structure Fraction Assigned to Telephone → Feeder Buried

### **PB&A Input Changes**

The following is a comprehensive list of the PB&A Input Changes, and the list includes the input changed and the corresponding steps necessary to change each input in the HAI 5.0a model. The inputs are located in the HAI 5.0a model under the HM Inputs menu choice.

*Distribution Inputs:*

- 1) Distribution Cable Investment 1: Distribution Inputs → Cable and Riser Investment → Distribution Cable \$/foot
- Distribution Cable Investment 2: Distribution Inputs → Cable and Riser Investment → Distribution Cable \$/foot
- Distribution Cable Investment 3: Distribution Inputs → Cable and Riser Investment → Distribution Cable \$/foot
- Distribution Cable Investment 4: Distribution Inputs → Cable and Riser Investment → Distribution Cable \$/foot
- Distribution Cable Investment 5: Distribution Inputs → Cable and Riser Investment → Distribution Cable \$/foot
- Distribution Cable Investment 6: Distribution Inputs → Cable and Riser Investment → Distribution Cable \$/foot
- Distribution Cable Investment 7: Distribution Inputs → Cable and Riser Investment → Distribution Cable \$/foot
- Distribution Cable Investment 8: Distribution Inputs → Cable and Riser Investment → Distribution Cable \$/foot
- Distribution Cable Investment 9: Distribution Inputs → Cable and Riser Investment → Distribution Cable \$/foot
- Distribution Cable Investment 10: Distribution Inputs → Cable and Riser Investment → Distribution Cable \$/foot
- Distribution Cable Investment 11: Distribution Inputs → Cable and Riser Investment → Distribution Cable \$/foot
- Distribution Cable Investment 12: Distribution Inputs → Cable and Riser Investment → Distribution Cable \$/foot

*Feeder Inputs:*

- 2) Fiber Feeder Investment per foot – 216: Feeder Inputs → Cable Costs → Fiber Investment per foot
- Fiber Feeder Investment per foot – 144: Feeder Inputs → Cable Costs → Fiber Investment per foot
- Fiber Feeder Investment per foot – 96: Feeder Inputs → Cable Costs → Fiber Investment per foot
- Fiber Feeder Investment per foot – 72: Feeder Inputs → Cable Costs → Fiber Investment per foot
- Fiber Feeder Investment per foot – 60: Feeder Inputs → Cable Costs → Fiber Investment per foot
- Fiber Feeder Investment per foot – 48: Feeder Inputs → Cable Costs → Fiber Investment per foot
- Fiber Feeder Investment per foot – 36: Feeder Inputs → Cable Costs → Fiber Investment per foot
- Fiber Feeder Investment per foot – 24: Feeder Inputs → Cable Costs → Fiber Investment per foot
- Fiber Feeder Investment per foot – 18: Feeder Inputs → Cable Costs → Fiber Investment per foot
- Fiber Feeder Investment per foot – 12: Feeder Inputs → Cable Costs → Fiber Investment per foot

3) Conduit Material Investment per foot: Feeder Inputs → Copper Placement → Conduit Material Investment per ft

*Excavation and Restoration Inputs:*

4) Trench Per Ft – 0: Excavation and Restoration → Underground Excavation → Trenching Per Foot

Trench Per Ft – 5: Excavation and Restoration → Underground Excavation → Trenching Per Foot

Trench Per Ft – 200: Excavation and Restoration → Underground Excavation → Trenching Per Foot

Backhoe Trench Per Ft – 0: Excavation and Restoration → Underground Excavation → Backhoe Per Foot

Backhoe Trench Per Ft – 5: Excavation and Restoration → Underground Excavation → Backhoe Per Foot

Backhoe Trench Per Ft – 200: Excavation and Restoration → Underground Excavation → Backhoe Per Foot

Hand Trench Per Ft – 0: Excavation and Restoration → Underground Excavation → Hand Trench Per Foot

Hand Trench Per Ft – 5: Excavation and Restoration → Underground Excavation → Hand Trench Per Foot

Hand Trench Per Ft – 200: Excavation and Restoration → Underground Excavation → Hand Trench Per Foot

5) Cut/Restore Asphalt Per Ft – 0: Excavation and Restoration → Underground Restoration → Cut/Restore Asphalt Per Foot

Cut/Restore Asphalt Per Ft – 5: Excavation and Restoration → Underground Restoration → Cut/Restore Asphalt Per Foot

Cut/Restore Asphalt Per Ft – 200: Excavation and Restoration → Underground Restoration → Cut/Restore Asphalt Per Foot

Cut/Restore Concrete Per Ft – 0: Excavation and Restoration → Underground Restoration → Cut/Restore Concrete Per Foot

Cut/Restore Concrete Per Ft – 5: Excavation and Restoration → Underground Restoration → Cut/Restore Concrete Per Foot

Cut/Restore Concrete Per Ft – 200: Excavation and Restoration → Underground Restoration → Cut/Restore Concrete Per Foot

Cut/Restore Sod Per Ft – 0: Excavation and Restoration → Underground Restoration → Cut/Restore Sod Per Foot

Cut/Restore Sod Per Ft – 5: Excavation and Restoration → Underground Restoration → Cut/Restore Sod Per Foot

Cut/Restore Sod Per Ft – 200: Excavation and Restoration → Underground Restoration → Cut/Restore Sod Per Foot

Pavement Stabilization Per Ft – 0: Excavation and Restoration → Underground Restoration → Conduit Placement Pavement Per Foot

Pavement Stabilization Per Ft – 5: Excavation and Restoration → Underground Restoration → Conduit Placement Pavement Per Foot

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Pavement Stabilization Per Ft – 200: Excavation and Restoration → Underground Restoration → Conduit Placement Pavement Per Foot  
Dirt Stabilization Per Ft – 0: Excavation and Restoration → Underground Restoration → Conduit Placement Dirt Per Foot  
Dirt Stabilization Per Ft – 5: Excavation and Restoration → Underground Restoration → Conduit Placement Dirt Per Foot  
Dirt Stabilization Per Ft – 200: Excavation and Restoration → Underground Restoration → Conduit Placement Dirt Per Foot  
Simple Backfill – 0: Excavation and Restoration → Underground Restoration → Simple Backfill Per Foot  
Simple Backfill – 5: Excavation and Restoration → Underground Restoration → Simple Backfill Per Foot  
Simple Backfill – 200: Excavation and Restoration → Underground Restoration → Simple Backfill Per Foot

6) Plow Per Ft – 0: Excavation and Restoration → Buried Excavation → Plow Per Foot  
Plow Per Ft – 5: Excavation and Restoration → Buried Excavation → Plow Per Foot  
Plow Per Ft – 200: Excavation and Restoration → Buried Excavation → Plow Per Foot  
Trench Per Ft – 0: Excavation and Restoration → Buried Excavation → Trench Per Foot  
Trench Per Ft – 5: Excavation and Restoration → Buried Excavation → Trench Per Foot  
Trench Per Ft – 200: Excavation and Restoration → Buried Excavation → Trench Per Foot  
Backhoe Trench Per Ft – 0: Excavation and Restoration → Buried Excavation → Backhoe Trench Per Foot  
Backhoe Trench Per Ft – 5: Excavation and Restoration → Buried Excavation → Backhoe Trench Per Foot  
Backhoe Trench Per Ft – 200: Excavation and Restoration → Buried Excavation → Backhoe Trench Per Foot  
Hand Trench Per Ft – 0: Excavation and Restoration → Buried Excavation → Hand Trench Per Foot  
Hand Trench Per Ft – 5: Excavation and Restoration → Buried Excavation → Hand Trench Per Foot  
Hand Trench Per Ft – 200: Excavation and Restoration → Buried Excavation → Hand Trench Per Foot  
Bore Cable Per Ft – 0: Excavation and Restoration → Buried Excavation → Bore Cable Per Foot  
Bore Cable Per Ft – 5: Excavation and Restoration → Buried Excavation → Bore Cable Per Foot  
Bore Cable Per Ft – 200: Excavation and Restoration → Buried Excavation → Bore Cable Per Foot

7) Push Pipe/Pull Cable Per Ft – 0: Excavation and Restoration → Buried Installation and Restoration → Push Pipe/Pull Cable Per Foot  
Push Pipe/Pull Cable Per Ft – 5: Excavation and Restoration → Buried Installation and Restoration → Push Pipe/Pull Cable Per Foot  
Push Pipe/Pull Cable Per Ft – 200: Excavation and Restoration → Buried Installation and Restoration → Push Pipe/Pull Cable Per Foot  
Cut/Restore Asphalt Per Ft – 0: Excavation and Restoration → Buried Installation and Restoration → Cut/Restore Asphalt Per Foot

Cut/Restore Asphalt Per Ft – 5: Excavation and Restoration → Buried Installation and Restoration → Cut/Restore Asphalt Per Foot  
Cut/Restore Asphalt Per Ft – 200: Excavation and Restoration → Buried Installation and Restoration → Cut/Restore Asphalt Per Foot  
Cut/Restore Concrete Per Ft – 0: Excavation and Restoration → Buried Installation and Restoration → Cut/Restore Concrete Per Foot  
Cut/Restore Concrete Per Ft – 5: Excavation and Restoration → Buried Installation and Restoration → Cut/Restore Concrete Per Foot  
Cut/Restore Concrete Per Ft – 200: Excavation and Restoration → Buried Installation and Restoration → Cut/Restore Concrete Per Foot  
Cut/Restore Sod Per Ft – 0: Excavation and Restoration → Buried Installation and Restoration → Cut/Restore Sod Per Foot  
Cut/Restore Sod Per Ft – 5: Excavation and Restoration → Buried Installation and Restoration → Cut/Restore Sod Per Foot  
Cut/Restore Sod Per Ft – 200: Excavation and Restoration → Buried Installation and Restoration → Cut/Restore Sod Per Foot  
Simple Backfill – 0: Excavation and Restoration → Buried Installation and Restoration → Simple Backfill  
Simple Backfill – 5: Excavation and Restoration → Buried Installation and Restoration → Simple Backfill  
Simple Backfill – 100: Excavation and Restoration → Buried Installation and Restoration → Simple Backfill

### **PB&A Demand Changes**

The following is a comprehensive list of the PB&A Demand Changes, and the list includes the new demand from Schoonmaker Exhibit 1.07 and the corresponding steps necessary to change the demand in the HAI 5.0a model.

#### *Demand Changes in HM50.mdb:*

- 1) Shawnee entries in the CBGMulti Table need be updated to include the relative distribution of lines from Schoonmaker Exhibit 1.07.
- 2) Shawnee entries in the ClusterData Table need to be updated to include the relative distribution of lines from Schoonmaker Exhibit 1.07.

### **PB&A Factor and Investment Changes**

The following is a comprehensive list of the PB&A Factor and Investment Changes, and the list includes the factor and investment inputs changed and the corresponding steps necessary to change each factor and investment input in the HAI 5.0a model.

#### *Factor Changes in Shawnee Exhibit 3.05 - Updated HAI 5.0a run for SHAWNEE:*

- 1) ARMIS Inputs Sheet - Modified all cells highlighted in YELLOW to reflect the 2010 Account Balances from the 2010 Annual Report of Shawnee. Updated to 2010 account balances when available.

- 2) 96 Actuals Sheet - Modified all cells highlighted in YELLOW to reflect the 2010 Account Balances from the modified ARMIS Inputs Sheet. Factors adjusted to reflect 2010 balances when available.
- 3) Public Sheet - Modified all cells highlighted in YELLOW to reference the new modified factors in the 96 Actuals Sheet.
- 4) Operator Sheet - Modified all cells highlighted in YELLOW to reference the new modified factors in the 96 Actuals Sheet.
- 5) Tand Switching Sheet - Modified all cells highlighted in YELLOW to reference the new modified factors in the 96 Actuals Sheet.
- 6) Comm Xport Sheet - Modified all cells highlighted in YELLOW to reference the new modified factors in the 96 Actuals Sheet.
- 7) Direct Xport Sheet - Modified all cells highlighted in YELLOW to reference the new modified factors in the 96 Actuals Sheet.
- 8) Ded Xport Sheet - Modified all cells highlighted in YELLOW to reference the new modified factors in the 96 Actuals Sheet.
- 9) Signaling Sheet - Modified all cells highlighted in YELLOW to reference the new modified factors in the 96 Actuals Sheet.
- 10) EO Switching Sheet - Modified all cells highlighted in YELLOW to reference the new modified factors in the 96 Actuals Sheet.
- 11) Feeder Sheet - Modified all cells highlighted in YELLOW to reference the new modified factors in the 96 Actuals Sheet.
- 12) Concentrator Sheet - Modified all cells highlighted in YELLOW to reference the new modified factors in the 96 Actuals Sheet.
- 13) Distribution Sheet - Modified all cells highlighted in YELLOW to reference the new modified factors in the 96 Actuals Sheet.

*Investment Changes in Shawnee Exhibit 3.05 - Updated HAI 5.0a run for SHAWNEE:*

- 1) Investment Input Sheet - Excel Column AO needs to be revised to \$227,711 to reflect the cost to upgrade to soft switch for Shawnee.

**Schoonmaker changes to IL\_Distance**

- 1) Modified IL\_Distance file to include corrected distances.

**Schoonmaker changes to Host-Remote assignment**

1) Modified Host-Remote assignment in HAI interface to include Rosclaire as Host and all other Shawnee exchanges as Remotes off of Rosclaire.

**Schoonmaker changes to HAI Switching Module (R50a\_switching\_io.xls) –  
Schoonmaker IITA Exhibit 1.17**

1. Change in the calculation of DS-1 circuits required for interoffice transport.

In the Switching Module of the HAI 5.0a model the formulae for calculating the number of DS1 circuits that are needed and which determine the amount of interoffice COE transmission equipment substantially understate the number of circuits in a DS1 and thus overstate the number of DS1s required. The cells where these calculations are corrected are in the Host-Remote worksheet of the Module. Formulas were changed in cells BA2, BE2, and AZ2 to divide the number of DS0's by 24 instead of 2 to arrive at the needed number of DS1s.

2. Change in the calculation of the number of dedicated interLATA access trunks.

In the Switching Module of the HAI 5.0a model the formula for calculating the number of dedicated interLATA access trunks incorrectly includes the number of interLATA tandem switched trunks, thus counting the interLATA tandem switched trunks twice in determining the total number of interoffice trunks needed. This formula is in the Wire Center Investment worksheet in cell AC2 and was modified to eliminate including the interLATA tandem switched trunks from cell AF2, thus eliminating the double counting.

3. Change in the formula determining whether the default COE switching investment inputs, or the alternative host-remote COE investment inputs will be used.

The HAI 5.0a model has two different sets of inputs to determine COE switching inputs which are described as the default inputs and the alternative host-remote inputs. The user determines, by checking a box in the switching inputs if they choose to use the alternative inputs. The formula in cell G2 of the Wire Center Investment worksheet of the switching module as it has been provided in the model will only choose the alternative host-remote inputs if a host switch has been identified as well. However, in some cases including the current analysis, the user may wish to use the alternative host-remote inputs even for companies with a single or multiple stand-alone switches. The formula in cell G2 has been modified so that these inputs will be chosen if the correct box is checked in the input section even if there is no host switch identified.

PBA does not fully understand this adjustment. Instead, PBA adjusted the inputs in the results file – Network Investment Tab for both the host switch alternative host remote options with the same inputs.

4. Change in the formula assigning interoffice fiber investment cost to the interoffice trunking facilities.

The formulas used in the switching module to develop the cost of fiber used for interoffice trunking develops the total cost of the fiber used interoffice facilities and then allocates this total cost to interoffice trunking categories. Since these allocations do not recognize that the interoffice trunking facilities typically are also used for other purposes such as host-remote circuit links, the formula developing the cost of fiber for interoffice trunking in the Wire Center Investment worksheet, cell AT2 has been modified by multiplying it by 0.5, thus allocating only half of the cost of the fiber to interoffice trunking.