One-time Costs* Total \$1,189,415 *Equipment pricing based on 2009 NT Build-out with updated 2011 Infinera optics pricing MT-Span Light Wave Addition (Spokane to Glendive) 10 DLMs at \$28600/each \$286,000 UM Project Management/Install \$50,000 ITSD Light Wave at each drop/add 6 TAM at \$22,200 / each \$133,200 10 TOM's at \$1,500 / each \$15,000 Helena Drop/Add Buildout DTC (Chassis) \$10,500 \$10,500 2 BMMs at \$21,000 / each \$42,000 2 DLMs at \$28,600 / each \$57,200 Software at \$22,000 \$22,000 Light Wave Install costs at \$48,300 \$48,300 Helena Local Loop Access (Hut to SMDC) Bresnan constructed dark fiber \$223,500 *Bid for Hut to HCT Jur Hut Prep (power, site survey, fiber pigtail, etc) \$110,000 *May vary due to actual No local loop DWDM Missoula Local Loop Access (Hut to UM to State) Shared DWDM with UM (Hut to UM) (1 wave east) \$32,250 *Note additional wave One-time DWDM / cross connect setup costs \$10,000

Bozeman Local Loop Access ((Hut to MSU to State)

ATM Base equipment	\$17,500
2 wave DWDM local loop	\$44,500
One time setup	\$10,000

Billings Local Loo	p Access	(Hut to Iconnect)
Billings Local Loc	D , (CCCC)	trac co recriment

517,500
\$44,500
\$10,000
\$3,000

Miles City Local Loop Access (Hut to MCDC)

Fiber from Hut to MCDC	\$34,965 Updated with UM bid f
Hut Prep (power, site survey, fiber pigtail, etc)	\$110,000 *May vary due to actual
UM Grant Money for connection	-\$142,500 *Grant money to fund

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Split of \$410,000/yr between MSU, UM, State	\$136,667 *Assumes 1/3 split - TE
5% management fee to UM	\$6,833

<u>Helena</u>

Bresnan dark fiber (hut to SMDC)	\$5,850 *Assumed maintenanc
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Missoula

Bresnan fiber	\$5,850 *Assumed maintenanc
Local loop shared cost - shared with UM	\$6,000
UM 4% maintenance cost on equipment on orig.	\$1,290

<u>Bozeman</u> Bresnan fib

Bresnan fiber	\$5,850 *Assumed maintenanc
Local loop shared cost - shared with MSU	\$6,000
MSU 4% maintenance cost on equipment on orig.	\$2,480

Billings

Iconnect cross-connect fiber	\$5,850
Covering NT connect RU space	\$600
RU & x-connect for NT in Iconnect	\$3,000

Annual Separate Fiber cost \$22,500 (Note decrease scale of

Miles City

Annual fiber charge & local loop \$22,380 *Source UM UPN	SI IN IVIIIC.
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ne 2010 al construction costs

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from UPN al construction costs fiber to MCDC & colleges

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ver four years, 48K, 24K, 12K, 6K)

s City bid