

# Hines Hill Railroad Crossing Interface BOM

Material needed to interface with and communicate the occupancy of the railroad crossing.

## At Crossing Gate

Qty	Unit	Description	Mfg.	Part #	Unit Cost	Total Cost
2	ea	X-401 Relay Interfaces	Control By Web	X-401-E	\$ 249.95	\$ 499.90
2	ea	Mean Well 12vdc, 1Amp power supply	Mean Well	RS-35-12	\$ 12.70	\$ 25.40
50	ft	16awg wire	Southwire	27037101	\$ 0.11	\$ 5.50
1	ea	Routerboard Fiberbox	MikroTik	FiberBox	\$ 79.00	\$ 79.00
1	ea	Copper 1G SFP	FS.com	SFP-GB-GE-T	\$ 20.00	\$ 20.00
2	ea	LH SM 1G SFP (BiDi - U Side)	FS.com	11802	\$ 10.00	\$ 20.00
1	ea	0.5m Ethernet Cable	FS.com	C5E-UTPSGPVCBE-0.6M	\$ 1.70	\$ 1.70
2	ea	1m Fiber Patch Cable (LC to SC/APC)	FS.com	SM-LCU-SCA-SXBI-PVC-1M	\$ 2.70	\$ 5.40
150	ft	6 Strand flat drop	Stock	Stock	\$ 0.60	\$ 90.00
1	ea	Clearfield "kit car"	Stock	Stock	\$ 75.00	\$ 75.00
1	ea	Outdoor NEMA closure 12"x12"x12"	Lowes	103392	\$ 44.86	\$ 44.86
1	ea	Shop Supplies	Stock	Stock	\$ 100.00	\$ 100.00
1	ea	Relay contact from Norfolk Southern	Ohio Rail Commission will cover NS RR Costs			\$ -
			(Approximately \$50,000)			
1	ea	Labor - Install of components	Hudson HPP Staff			\$ -
						\$ -
<b>City Cost near Railroad Crossing Total</b>						<b>\$ 966.76</b>

## Walters Rd. (including material to reach the location)

Qty	Unit	Description	Mfg.	Part #	Unit Cost	Total Cost
1	ea	X-401 Relay Interfaces	Control By Web	X-401-E	\$ 249.95	\$ 249.95
1	ea	Mean Well 12vdc, 1Amp power supply	Mean Well	RS-35-12	\$ 12.70	\$ 12.70
25	ft	16awg wire	Southwire	27037101	\$ 0.11	\$ 2.75
1	ea	PoE Media Converter	FS.com	IMC-1F1T	\$ 159.00	\$ 159.00
1	ea	Outdoor NEMA closure 12"x12"x12"	Lowes	103392	\$ 44.86	\$ 44.86
1	ea	LH SM 1G SFP (BiDi - D Side)	FS.com	11759	\$ 14.00	\$ 14.00
1	ea	0.5m Ethernet Cable	FS.com	C5E-UTPSGPVCBE-0.6M	\$ 1.70	\$ 1.70
1	ea	1m Fiber Patch Cable (LC to SC/APC)	FS.com	SM-LCU-SCA-SXBI-PVC-1M	\$ 2.70	\$ 2.70

1 ea	SC/APC Hardened Drop Cable	Stock	Stock		\$ 125.00	\$ 125.00
1 ea	Clearfield "kit car"	Stock	Stock		\$ 75.00	\$ 75.00
1 ea	Coyote Dome 6.5x17	PLP		8006944	\$ 250.00	\$ 250.00
2 ea	Splice Tray with Chips - Long	PLP		80809958	\$ 60.00	\$ 120.00
7933 ft	96 Count Fiber	Stock	Stock		\$ 0.85	\$ 6,743.05
12 ea	Deadends	Stock	Stock		\$ 41.00	\$ 492.00
32 ea	Bolts	Stock	Stock		\$ 12.00	\$ 384.00
32 ea	Clamshell	Stock	Stock		\$ 42.00	\$ 1,344.00
2 ea	Wedge Clamps	Stock	Stock		\$ 2.00	\$ 4.00
1 ea	Tie Wraps	Stock	Stock		\$ 10.00	\$ 10.00
2 ea	Eye Bolt	Stock	Stock		\$ 12.00	\$ 24.00
1 ea	Shop Supplies	Stock	Stock		\$ 100.00	\$ 100.00
1 ea	First Energy Power Service	Placeholder			\$7,500	\$ 7,500.00
						\$ -
1 ea	Labor - Install of components	HPP				\$ -
7933 ea	Labor - Cable Install	Thayer			\$ 3.25	\$ 25,782.25
	10 % contingency					\$ 4,344.00
	<b>Walters Road Intersection Total</b>					<b>\$ 47,784.96</b>

**Valley View (including material to reach the location + new sign)**

Qty	Unit	Description	Mfg.	Part #	Unit Cost	Total Cost
1 ea		X-401 Relay Interfaces	Control By Web	X-401-E	\$ 249.95	\$ 249.95
1 ea		Mean Well 12vdc, 1Amp power supply	Mean Well	RS-35-12	\$ 12.70	\$ 12.70
25 ft		16awg wire	Southwire	27037101	\$ 0.11	\$ 2.75
1 ea		PoE Media Converter	FS.com	IMC-1F1T	\$ 159.00	\$ 159.00
1 ea		Outdoor NEMA closure 12"x12"x12"	Lowes	103392	\$ 44.86	\$ 44.86
1 ea		LH SM 1G SFP (BiDi - D Side)	FS.com	11759	\$ 14.00	\$ 14.00
1 ea		0.5m Ethernet Cable	FS.com	C5E-UTPSGPVCBE-0.6M	\$ 1.70	\$ 1.70
1 ea		1m Fiber Patch Cable (LC to SC/APC)	FS.com	SM-LCU-SCA-SXBI-PVC-1M	\$ 2.70	\$ 2.70
1 ea		SC/APC Hardened Drop Cable	Stock	Stock	\$ 125.00	\$ 125.00
1 ea		Clearfield "kit car"	Stock	Stock	\$ 75.00	\$ 75.00
1 ea		Coyote Dome 6.5x17	PLP	8006944	\$ 250.00	\$ 250.00
2 ea		Splice Tray with Chips - Long	PLP	80809958	\$ 60.00	\$ 120.00

3716 ft	96 Count Fiber	Stock	Stock	\$ 0.85	\$ 3,158.60
4 ea	Deadends	Stock	Stock	\$ 41.00	\$ 164.00
20 ea	Bolts	Stock	Stock	\$ 12.00	\$ 240.00
20 ea	Clamshell	Stock	Stock	\$ 42.00	\$ 840.00
2 ea	Wedge Clamps	Stock	Stock	\$ 2.00	\$ 4.00
2 ea	Eye Bolt	Stock	Stock	\$ 12.00	\$ 24.00
1 ea	Tie Wraps	Stock	Stock	\$ 10.00	\$ 10.00
1 ea	Shop Supplies	Stock	Stock	\$ 100.00	\$ 100.00
2 ea	InstaAlert 18 Sign	All Traffic Solutions	Multiple (4000662)	\$ 7,095.00	\$ 14,190.00
1 ea	HPP Power Drop (estimate)	HPP	HPP	\$ 2,000.00	\$ 2,000.00
					\$ -
1 ea	Labor - Install of components	HPP			\$ -
3716 ea	Labor - Cable Install	Thayer		\$ 3.25	\$ 12,077.00
	10% contingency				\$ 2,178.00
	<b>Valley View Intersection Total</b>				<b>\$ 36,043.26</b>