



April 13, 2021

Presentation prepared for:
Town of McCordsville

Presentation to Town Council

Mt. Comfort Road & CSX Preliminary Planning Services

Preliminary Planning

Optimization of an Underpass Alignment

Comparison of the Alternatives

- Quantitative
- Qualitative

Path Forward for Securing Project Funding

At-Grade: Overview



At-Grade: Property Impacts

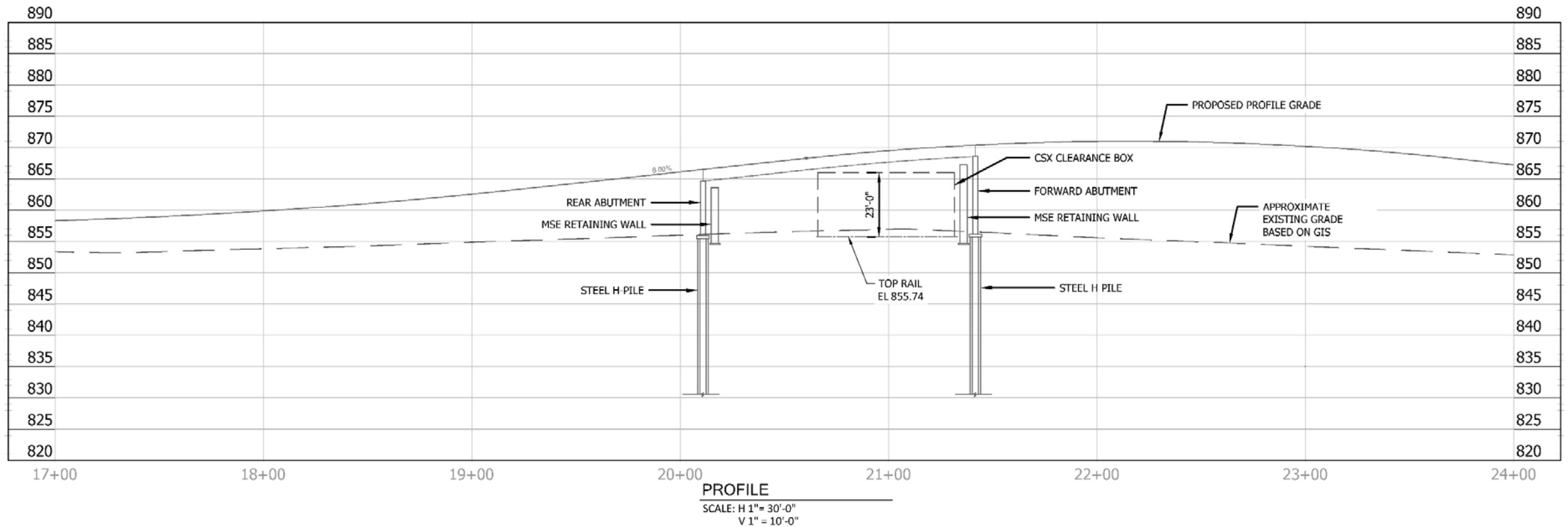




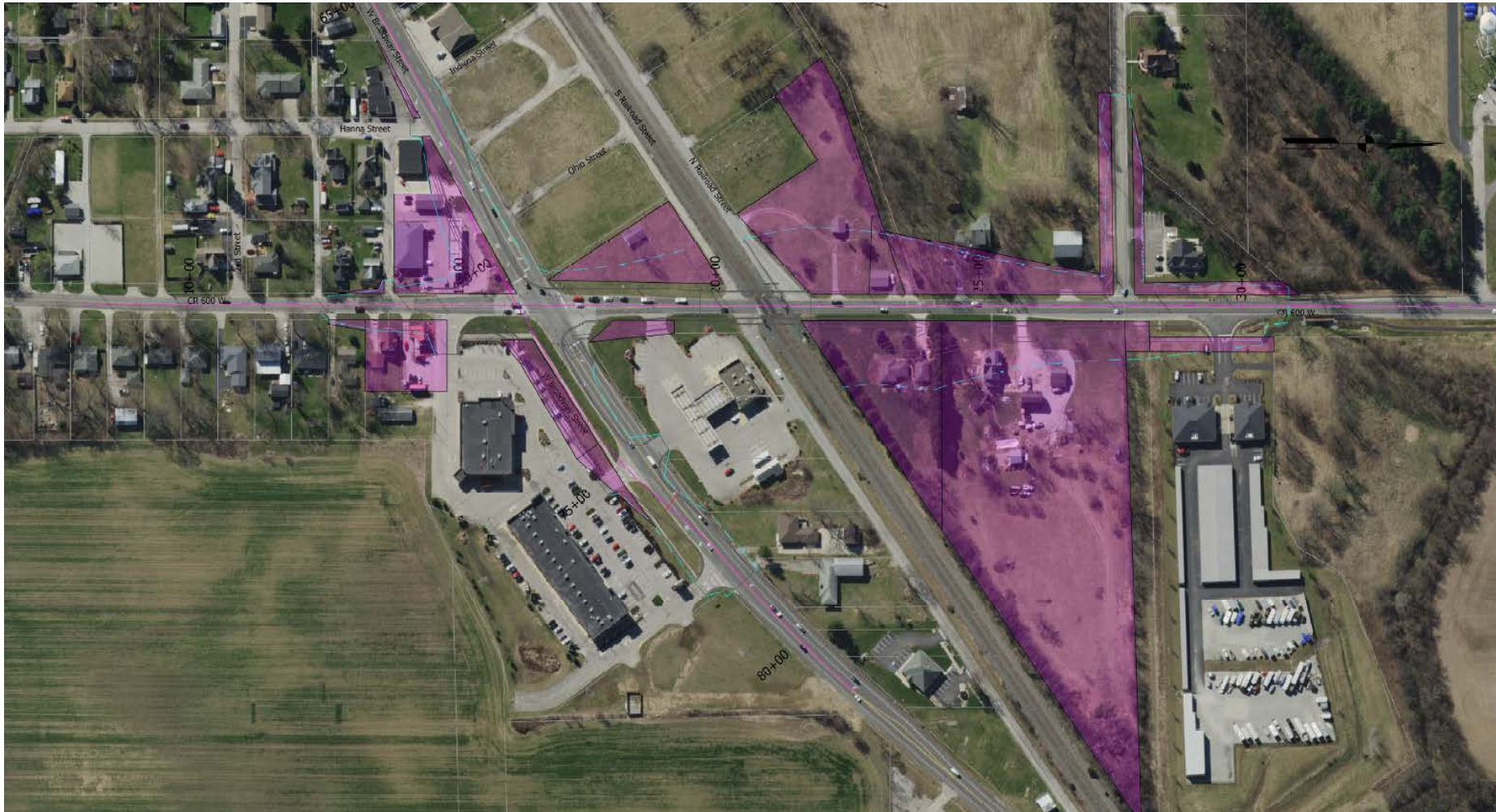
Bridge: Overview



Bridge: Overview



Bridge: Property Impacts

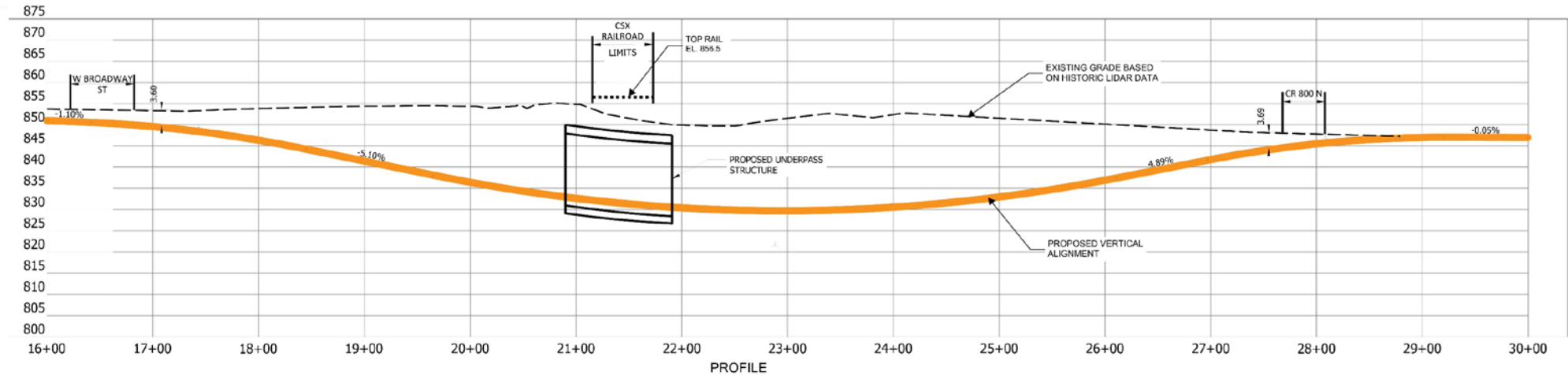




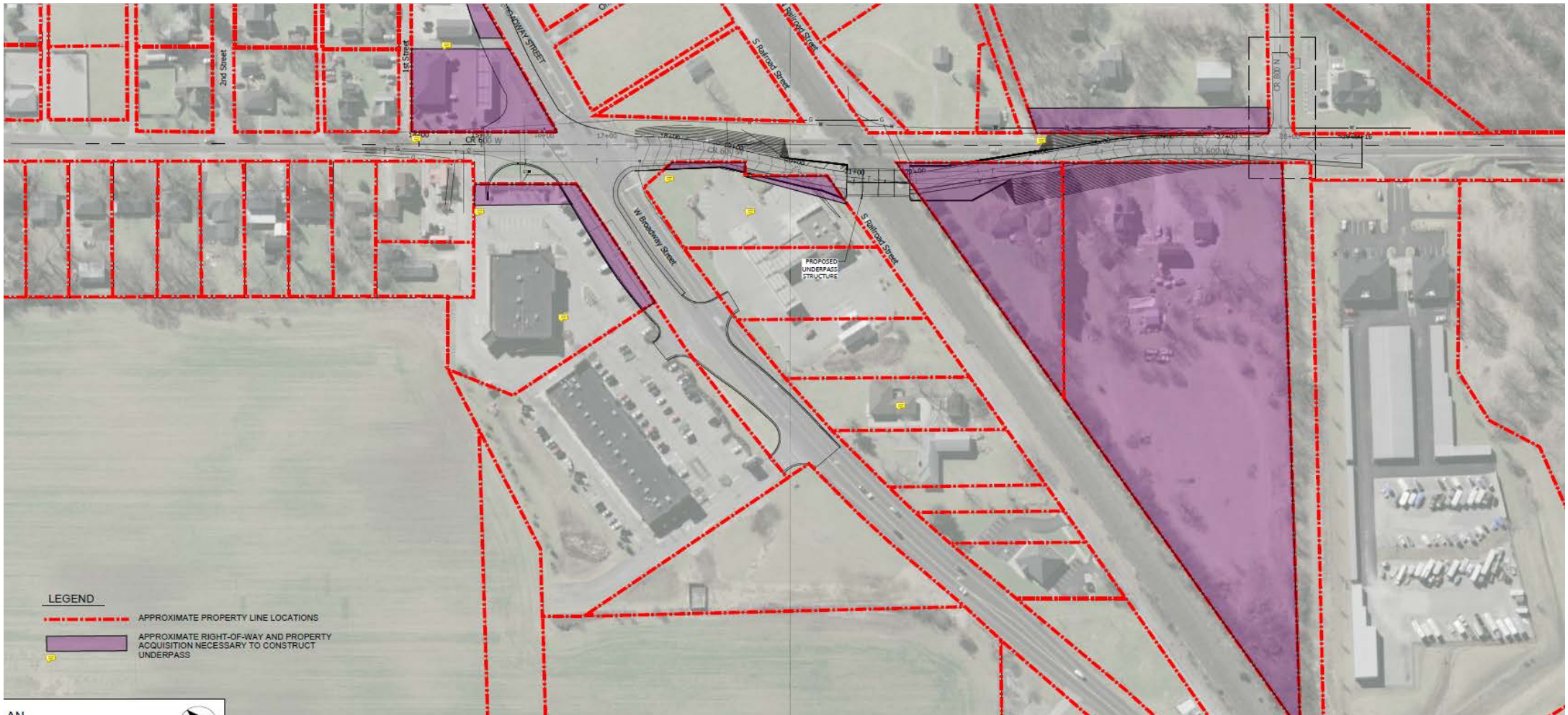
Underpass: Overview



Underpass: Overview



Underpass: Property Impacts



Quantitative: By the Numbers

- Construction Duration
- Capital Construction Cost
- Other Project Costs
 - Property Acquisition
 - Professional Fees
 - O & M



TASK 1
TASK 2
TASK 3
TASK 4



Comparison of Construction Duration

- At Grade = 7 months (road remains open)
- Bridge = 16 months (detour; road closed entire duration)
- Underpass = 21 months
 - Road remain open for approximately 14 months
 - Road closure for 7 months

Total Project Cost Comparison

	AT-GRADE	BRIDGE	UNDERPASS
CONSTRUCTION	\$5,117,721	\$18,605,971	\$28,260,991
DESIGN ENGINEERING	\$665,304	\$2,046,657	\$2,543,489
CONSTRUCTION INSPECTION	\$639,715	\$2,325,746	\$3,532,624
O&M COSTS	\$270,000	\$1,501,950	\$1,019,650
PROPERTY ACQUISITION	\$2,230,160	\$8,186,200	\$5,502,200
PROJECT TOTAL:	\$8,922,900	\$32,666,524	\$40,858,954

Town Financial Participation in Federal Funded Project

	AT-GRADE	BRIDGE	UNDERPASS
DESIGN ENGINEERING	\$665,304	\$2,046,657	\$2,543,489
CONSTRUCTION INSPECTION	\$639,715	\$2,325,746	\$3,532,624
PROPERTY ACQUISITION	\$2,230,160	\$8,186,200	\$5,502,200
TOWN FINANCIAL PARTICIPATION:	\$3,535,179	\$12,558,603	\$11,578,313

Qualitative Considerations

- Constructability
- INDOT Approval and CSX Permit
- Traffic and Public Safety
- Consistency with the Town's Vision



Outcome from Workshop

Tabulated Scores from Workshop Participants

	AT-GRADE	BRIDGE	UNDERPASS
PROJECT COST	291	138	202
INDOT APPROVAL & CSX PERMIT	103	32	89
CONSTRUCTABILITY	185	42	106
CONSISTENCY WITH TOWN'S VISION	165	501	521
TRAFFIC AND PUBLIC SAFETY IMPROVEMENT	129	897	830
TOTAL SCORE:	873	1610	1748

Next Steps

1. Funding application
2. Meet with approval and permitting agencies