



THE PENNSYLVANIA HIGH-SPEED MAGLEV PROJECT

Recommended Alternative Alignment Impact Analysis



FEATURE	SECTION A		SECTION B		SECTION C	
	Airport (PIA) to Steel Plaza Station		Steel Plaza Station to Thompson Run Station		Thompson Run Station to Toll 66/PA Rt. 136 Station	
	A5-South Alignment, Enlow and Steel Plaza Stations	Roadway Improvements	B4-West Alignment and Thompson Run Station	Roadway Improvements	C6 Alignment and Toll 66/PA 136 Station	Roadway Improvements
Design Issues						
Length kilometers (miles)	28 (17.4)	5.2 (3.0)	28 (17.4)	20.9 (13)	31.1 (19.3)	8 (5)
Speed Criteria - 386kph (240 mph) (Yes / No)	YES	N/A	NO	N/A	YES	N/A
Natural Resources						
Wetlands - # and hectares (acres)	29/0.7 (1.7)	6/0.2 (0.4)	7/0.1 (0.3)	2/0.04 (0.1)	17 / 0.4 (1)	1 / 0.01 (0.03)
Number of Stream Crossings	88	23	17	35	50	3
Stream Impacts - meters (feet)	3,429 (11,250)	995 (3,263)	339 (1,111)	1,597 (5,239)	2,032 (6,669)	2 (8)
100-year Floodplain - meters (feet)	2,247 (7,373)	0	4,302 (14,116)	1,331 (4,366)	1,609 (5,280)	405 (1,330)
Forest Land - hectares (acres)	94 (231)	20 (49)	23 (58)	25 (61)	93 (229)	9 (22)
Range Land - hectares (acres)	24 (58)	4 (10)	3 (8)	2 (4)	10 (24)	1 (2)
Productive Agriculture - hectares (acres)	0	0	0	0	14 (35)	1.3 (3)
Agricultural Security Areas - # and hectares (acres)	0	0	0	0	10 (25)	0.04 (0.1)
Cultural Resources						
National Register Eligible or Listed Properties	5	0	4	0	0	0
National Register Eligible or Listed Districts	1	0	2	1	0	0
Recorded Archaeological Sites	4	0	0	0	1	1
Community Resources						
Residential Structures / Units	63 (151)	0	38 (45)	22 (22)	64 (64)	16 (16)
Commercial Structures / Units	10 (12)	0	15 (22)	19 (21)	13 (13)	1 (1)
Community Facilities	1	0	2	1	1	0
Pending Developments (# of planned residential lots)	0	0	0	0	9	0
Section 4(f) Resources						
Public Parks and Recreation Areas	0	0	3	0	2	0
Historic Resources	2	0	1	0	0	0
Additional Resources						
Air Quality	No Impact	No Impact	No Impact	No Impact	No Impact	No Impact
Electromagnetic Radiation (EMF/EMR)	No Impact	No Impact	No Impact	No Impact	No Impact	No Impact
Vibration	No Impact	No Impact	No Impact	No Impact	No Impact	No Impact
Potentially Contaminated Areas & Waste Disposal Sites	21	0	31	1	7	0

Preliminary Impact Zone defined as:

Residential Areas - Moderate to Dense	30.5 m (100 feet) each side of alignment centerline
Residential Areas - Low Density	10.7 m (35 feet) each side of alignment centerline
Urban / Industrial Areas	7.6 m (25 feet) each side of alignment centerline
Transportation Corridor	5.3 m (17.5 feet) each side of alignment centerline
Cut Areas	Top of cut plus 6.1 m (20 feet)
Station	Footprint of preliminary station design
Roadway Improvement Areas	Extent of necessary roadway improvements plus 6.1 m (20 feet) each side

PIA (Pittsburgh International Airport) includes the station areas and guideways to the PIA Terminal and Expressway East Stations and maintenance facility.