

I-LAST™

*Illinois - Livable and Sustainable Transportation
Rating System*

**I-LAST
Project Environmental Sustainability
Rating System Scorecard**



Sustainability Focus Working Group

East Side Highway Environmental Assessment

CATEGORY		ID	DESCRIPTION	Available Points	Project Points
Planning	P-1 Context Sensitive Solutions	P-1a	Identify Stakeholders and develop Stakeholders Involvement Plan	2	
		P-1b	Engage Stakeholders to conduct Context Audit and develop project purpose	2	
		P-1c	Involve Stakeholders to develop and evaluate alternatives	2	
		P-1d	Employ Stakeholder involvement techniques to achieve consensus for Preferred Project Alternative	2	
	P-2 Land Use/ Community Planning	P-2a	Promote reduction in vehicle trips by accommodating increased use of public transit	2	
		P-2b	Accommodate multi-modal transportation uses (e.g. transit riders, pedestrians, and bicyclists)	2	
		P-2c	Increase transportation efficiencies for moving freight through features such as dedicated rail or intermodal facilities	2	
		P-2d	Partnerships that provide environmental or technological advancements while promoting environmental stewardship	2	
		P-2e	Project is consistent with regional plans and local managed growth-based Master or Comprehensive Plans	2	
		P-2f	Project is compatible with local efforts for Transit Oriented Design	1	

Design Category

CATEGORY		ID	DESCRIPTION	Available Points	Project Points	
Design	D-1 Alignment Selection	D-1a	Avoid impacts to high quality undeveloped lands			
			D-1a-1	Avoid all impacts	2	
			D-1a-2	Avoid significant impacts	1	
		D-1b	Provide buffer between highway and high quality wetlands/water resources			
			D-1b-1	Provide 100 foot buffer to resources	2	
			D-1b-2	Avoid resource with less than 100 foot buffer	1	
		D-1c	Avoid impacts to environmental resources, such as INAI sites and sites with threatened or endangered species			
			D-1c-1	Avoid all impacts	2	
			D-1c-2	Avoid significant impacts	1	
		D-1d	Avoid impacts to socioeconomic resources			
			D-1d-1	Avoid all impacts	2	
			D-1d-2	Avoid significant impacts	1	
			D-1e	Cross section minimizes overall construction "footprint" to eliminate R.O.W. takes	2	
			D-1f	Minimize total earthwork by matching proposed vertical alignments as closely as possible to existing grades	1	
		D-1g	Utilize brownfield locations	2		
	D-2 Context Sensitive Design	D-2a	Adjust highway features using design flexibility		2	
		D-2b	Incorporate locally produced or native materials			
			D-2b-1	Over 95% of materials sourced in US	1	
			D-2b-2	Over 60% of materials sourced in metro area	2	
		D-2c	Visual enhancements		2	
D-2d		Items fit context of surroundings		1		
D-2e		Bridge aesthetics		1		
D-2f		Reduce urban "heat island" effect		1		

Environmental Category

CATEGORY		ID	DESCRIPTION	Available Points	Project Points	
Environmental	E-1 Protect, Enhance or Restore Wildlife and its Habitat	E-1a	Avoid habitat fragmentation	3		
		E-1b	Minimize habitat fragmentation	2		
		E-1c	Mitigate habitat fragmentation	1		
		E-1d	Wetland restoration/mitigation	1 to 3		
		E-1e	Provide nesting locations	2		
		E-1f	Provide wildlife crossings	2		
		E-1g	Provide fish passage	2		
		E-1h	Provide mussel relocation prior to construction	2		
		E-1i	Provide right-of-way wildlife barriers	1		
		E-1j	Provide mowing markers	1		
		E-1k	Schedule construction to avoid wildlife disruption	1		
	E-2 Trees and Plant Communities	E-2a	Avoidance/protection of individual and contiguous stands of specimen trees and localized areas of established, desirable vegetation		2	
		E-2b	Designs which demonstrate an anticipated ultimate net increase in tree species			
			E-2b-1	Increase tree species through preservation and new planting	2	
			E-2b-2	Coordination with local stakeholders to create a plant palette in context with community	2	
			E-2b-3	Historic native plantings are re-established	1	
		E-2c	Re-establish/expand native vegetation in reclaimed work areas or abandoned old alignments		2	
		E-2d	Use of plant material in lieu of or enhance structural such as living snow fences, sight screens (viburnum, dogwood, etc.)		1	
		E-2e	Use of native species for plugs, seed mixes, perennial and other plantings		2	

Environmental Category

CATEGORY		ID	DESCRIPTION	Available Points	Project Points	
	E-2 Trees and Plant Communities	E-2f	Planting trees, shrubs and/or native plant material in highway right-of-way	2		
		E-2g	Tree replacement ratios at greater than 1:1	2		
		E-2h	Minimize potential salt splash impacts through use of berms or vegetative screening	2		
		E-2i	Removal of undesirable plant species, removal of invasive species	1		
		E-2j	Topsoil preservation	2		
	E-3 Noise Abatement	E-3a	Construction of noise barriers			
			E-3a-1	Specialized noise barrier construction	2	
			E-3a-2	Typical noise barrier	1	
		E-3b	Incorporate traffic system management techniques to reduce existing noise levels		2	
		E-3c	Provide a buffer zone for adjacent receptors		2	
		E-3d	Provide sound insulation to public or non-profit institutional structures		1	
		E-3e	Tining of pavement to reduce noise levels		1	
		E-3f	Provide plantings or sight screen to separate receptors from roadway		1	

Water Quality Category

CATEGORY		ID	DESCRIPTION	Available Points	Project Points
Water Quality	W-1 Reduce impervious area	W-1a	Use of ditches	2	
		W-1b	Replacement of paved median	2	
		W-1c	Reduction of paved shoulder areas	2	
		W-1d	Shoulders constructed of permeable pavement	2	
		W-1e	Replacement of paved bike paths with permeable pavement or permeable material	2	
	W-2 Storm water treatment	W-2a	Use of bioretention cells	2	
		W-2b	Use of constructed wetlands	2	
		W-2c	Use of bioswales	2	
		W-2d	Use of mechanical storm water treatment systems	2	
		W-2e	Use of catch basins	1	
		W-2f	Use of infiltration trenches	1	
		W-2g	Use of rain gardens	1	
		W-2h	Use of sand filters	1	
		W-2i	Use of ditch checks	1	
		W-2j	Use of sediment traps and fore bays	1	
		W-2k	Use of temporary inlet protection devices	1	

Water Quality Category

CATEGORY		ID	DESCRIPTION	Available Points	Project Points		
Water Quality	W-3 Design practices to protect water quality	W-3a	Analysis of pollutants in storm water	1			
		W-3b	Stream bank restoration	2			
		W-3c	Practices to protect highly erodible soils				
			W-3c-1	Special provisions for soil erosion control at stream crossings	2		
			W-3c-2	Meet NPDES requirements	1		
		W-3d	Implementation of erosion control practices	1			
		W-3e	Staging construction to minimize soil exposure	1			
		W-3f	Provide storm water detention	1			
		W-3g	Reduce use of fertilizers and herbicides	1			
		W-3h	Protection from materials entering waterway on bridge demolition and construction	1			

Transportation Category

CATEGORY		ID	DESCRIPTION	Available Points	Project Points		
Transportation	T-1 Traffic Operations	T-1a	Special use lane: High Occupancy Vehicle, reversible	2			
		T-1b	Innovative intersection/interchange design	2			
		T-1c	Expansion of or connection to a Traffic Management Center (TMC)	2			
		T-1d	Installation of coordinated signal system				
			T-1d-1	Installation of closed-loop system	1		
			T-1d-2	Timing plans developed for weekend or special events	1		
			T-1d-3	Advanced logic system such as adaptive control	1		
		T-1d-4	Inclusion of transit vehicle priority	1			
	T-1e	Limiting or consolidating access points along highway	1				
	T-1f	Bus turnouts	1				
	T-2 Transit	T-2a	Provide new Park-and-Ride lots				
			T-2a-1	Evaluate demand and effectiveness of potential Park-and-Ride lots	1		
			T-2a-2	Construction of Park-and-Ride lots	1		
		T-2b	Operational improvements of an existing Park-and-Ride lot	1			
		T-2c	Provide bike accommodations at Park-and-Ride lots & transit stations	1			
T-2d		Improved shading through vegetation at Park-and-Ride lots	1				
T-2e		Provide new multi-modal connections	1				
T-2f		Include bus stops with shelters or pads and pedestrian access	1				
T-2g	Installation of a transit express system	3					

Transportation Category

CATEGORY		ID	DESCRIPTION	Available Points	Project Points		
Transportation	T-3 Improve Bicycle & Pedestrian Facilities	T-3a	Assess Conditions –Perform bicycle and pedestrian Level of Service analysis within the roadway corridor	1			
		T-3b	Improved intersection designs for pedestrians	1 to 2			
		T-3c	Provide new or rehabilitate existing sidewalks or bikeways				
			T-3c-1	Provide new sidewalks or bikeways	2		
			T-3c-2	Rehabilitate sidewalks or bikeways	1		
		T-3d	Sidewalk or bikeway widening				
			T-3d-1	Widen sidewalk or bikeway	1		
			T-3d-2	Provide parkway separation	1		
		T-3e	Designated space for cyclists (shared lanes)	1			
		T-3f	Striped bike lanes within roadway	2			
		T-3g	Restore or pave shoulders for bicycling	2			
		T-3h	Create parallel bike routes	1			
		T-3i	Align the roadway to facilitate the development of future multi-use paths and facilities	1			
		T-3j	Provide new grade-separated (bridge or underpass) bike/pedestrian crossing structure	3			
T-3k	Install bikeway signs	1					
T-3l	Install bicycle racks	1					

Lighting Category

CATEGORY		ID	DESCRIPTION	Available Points	Project Points
Lighting	L-1 Reduced Electrical Consumption	L-1a	Use of alternative energy source to power street lighting, warning signs, and remote Intelligent Transportation Systems (ITS) components	2	
		L-1b	Retrofit existing street lighting with high efficiency types	2	
		L-1c	Replace signs with retro reflective signs to eliminate sign lighting	2	
		L-1d	Retrofit existing sign lighting with high efficiency types	1	
		L-1e	Use of high efficiency street lighting on new installations	2	
		L-1f	Use of alternative energy source for bus stops	2	
		L-1g	Use of high efficiency (such as LED) traffic signals	1	
	L-2 Stray Light Reduction	L-2a	Retrofit existing roadway lighting fixtures using cut off or full cut off fixtures	2	
		L-2b	New roadway lighting using cut off or full cut off fixtures	2	

Materials Category

CATEGORY		ID	DESCRIPTION	Available Points	Project Points		
Materials	M-1 Materials	M-1a	Reuse of top soil	1			
		M-1b	Balance cuts and fills				
			M-1b-1	Balance cuts and fills for the project	1		
			M-1b-2	Balance cuts and fills per stage	1		
		M-1c	Reuse spoils within project corridor to minimize material in and out of site	2			
		M-1d	Allow rubblization of concrete shoulder and concrete pavements	1			
		M-1e	Allow flexibility in design with the use of recycled or salvaged non-hazardous material				
			M-1e-1	Allow the processing of demolished concrete to reclaim scrap metals to create useable aggregate.	1		
			M-1e-2	Allow the use of milled HMA pavements for capping stone.	1		
			M-1e-3	Allow the use of recycled crushed pavements for temporary aggregate for areas like driveways or access roads	1		
			M-1e-4	Allow the use of recycled crushed pavements for shoulder stone	1		
			M-1e-5	Allow the use of recycled crushed pavements as aggregate for subgrade, sub base, or base lifts	1		
			M-1e	M-1e-6	Allow reclaiming sub base granular material	1	
		M-1e-7		Provide for optional reuse of reclaimed scrap materials for various items (sheeting, guard rail, etc.)	1		
		M-1f		Allow locally produced byproducts to be reused in the construction of embankments, hot mix asphalt and Portland cement concrete mixtures			
			M-1f-1	Allow the use of fly ash, ground granulated blast furnace slag cement, and microsilica in concrete mixtures	1		
			M-1f-2	Allow the use of ternary concrete mixtures in the construction of concrete pavements, shoulders and various structural items	2		
			M-1f-3	Allow the use of foundry sand or bottom ash as part of a material in the construction of embankments	1		

Materials Category

CATEGORY		ID	DESCRIPTION	Available Points	Project Points		
Materials	M-1 Materials	M-1f	M-1f-4	Allow the use of slag aggregate in the production of HMA mixtures (SMA Designs and "F" Mix).	1		
			M-1f-5	Allow the use of Recycled Asphalt Shingles (RAS) in the production of all HMA mixtures	2		
			M-1f-6	Obtain and implement a project specific use for the innovative reuse of waste materials other than the ones listed above.	1		
		M-1g	Allow the use of recycled asphalt pavement (RAP) in the construction of new hot mix asphalt pavements				
			M-1g-1	Allow the use of recycled asphalt pavement (RAP) in hot mix asphalt (HMA)	1		
			M-1g-2	Allow the use of fractionated recycled asphalt pavement (FRAP) at a higher percentage in the manufacturing of hot mix asphalt.	2		
		M-1h	Allow inclusion of environmentally acceptable and permitted sites in the contract documents for the disposal of surplus excavated material to an off-site location		1 to 2		
		M-1i	Allow the salvage / moving of buildings		2		
		M-1j	Soil stabilization with geosynthetics		1		
		M-1k	Soil stabilization with cementitious and recycled materials		2		
		M-1l	Consider locally available materials (such as local seed stock and plants) in developing specifications for the project		1		
		M-1m	Extended pavement life; design and rehabilitation strategies				
				M-1m-1	Specify the use of perpetual HMA pavement design	2	
				M-1m-2	Specify the use of 30 year design life concrete pavement	2	
				M-1m-3	Specify the use of 40 year design life concrete pavement	3	
				M-1m-4	Specify the use of pulverization of HMA pavement for a base	1	
				M-1m-5	Specify the use of various pavement preservation processes such as chip seal, seal coat, micro resurfacing, etc	1	
M-1m	M-1m-6	Selecting hot-in-place or cold-in-place recycling of hot mix asphalt	2				

Innovation Category

CATEGORY		ID	DESCRIPTION	Available Points	Project Points
Innovation	I-1 Innovation	I-1a	Use of Experimental Feature(s) to improve the sustainability of a project	1 to 3	

Construction Category

CATEGORY		ID	DESCRIPTION	Available Points	Project Points
Construction	CE-1 Protect, Enhance, Restore Wildlife Habitat	CE-1a	Land Disturbance	2	
		CE-1b	Equipment Spill Impact Prevention	1	
	CE-2 Trees and Plant Communities	CE-2a	Invasive Species Prevention	1 to 3	
		CE-2b	Minimize Soil Compaction	1 to 2	
		CE-2c	Wetland and Greenspace Protection	2	
		CE-2d	Vegetative Re-establishment	1 to 3	
	CE-4 Maximize Trucking Efficiency	CE-4a	Heavy truck route concept	1	
		CE-4b	Proximity to the Job	1	
		CE-4c	Recycling removed pavement onsite	1	
		CE-4d	Efficient use of backhauls	1	
	CS-1 Certified Suppliers	CS-1a	Use of asphalt plants with Diamond Achievement Commendation	3	
		CS-1b	Use of concrete plants with Green Star Certification	3	
	CW-1 Reduce Impervious Area	CW-1a	Prevent runoff with infiltration system	2	
	CW-2 Stormwater Treatment	CW-2a	Stormwater treatment systems to treat runoff from disturbed areas during construction	2	
		CW-2b	Method of Demolition	3	

Construction Category

CATEGORY		ID	DESCRIPTION	Available Points	Project Points	
Construction	CW-3 Construction Practices to Protect Water Quality	CW-3a	Constructive changes to the erosion and sediment control practices	1 to 3		
		CW-3b	Certified professionals for erosion and sediment control (CPESC)	1		
		CW-3c	Temporary Storm Water Pollution Prevention Plan (SWPPP) devices that are reusable or biodegradable	2		
		CW-3d	Use of a non-mechanical sediment or erosion control practice (Anionic Polymer)	2		
		CW-3e	Substitution of non-structural solutions	2		
		CW-3f	Treatment of flows from dewatering operations	2		
		CW-3g	Reduction of use of potable water	1		
	CM-1 Construction Practices	CM-1a	The use of recycled or salvaged non-hazardous material during the construction phase		1 to 7	
		CM-1a-1	The use and the processing of demolished concrete to reclaim scrap metals and to create usable aggregate		1	
		CM-1a-2	The use of milled HMA pavements for capping stone		1	
		CM-1a-3	The use of recycled crush pavements for temporary aggregate for areas like driveways or access roads		1	
		CM-1a-4	The use of recycled crushed pavements for shoulder stone		1	
		CM-1a-5	The use of recycled crushed pavements as aggregate for subgrade, subbase, or base lifts.		1	
		CM-1a-6	The reclaiming and reuse of subbase granular material		1	
		CM-1a-7	The reuse of reclaimed scrap metals for various items (e.g. sheeting, guard rail, etc.)		1	
		CM-1b	The use of locally produced by-products to be incorporated in the construction of embankments, hot mix asphalt and portland cement concrete mixtures		1 to 7	
		CM-1b-1	The use of fly ash, ground granulated blast furnace slag cement, and microsilica in concrete mixtures		1	
			CM-1b-2	The use of ternary concrete mixtures in the construction of concrete pavements, shoulders and appropriate structural items	1	

Construction Category

CATEGORY		ID	DESCRIPTION	Available Points	Project Points
Construction	CM-1 Construction Practices	CM-1b-3	The use of foundry sand or bottom ash as part of a material in the construction of embankments	1	
		CM-1b-4	The use of slag aggregate in the production of HMA mixtures (SMA Designs and "F" Mix")	1	
		CM-1b-5	The use of Recycled Asphalt Shingles (RAS) in the production of Stone Matrix Asphalt mixtures (SMA) or the production of HMA	1	
		CM-1b-6	The use of Ground Rubber Tire (GTR) in the production of new HMA	1	
		CM-1b-7	Obtain and implement a project specific plan for the innovative reuse of waste materials other than the ones listed above	1	
		CM-1c	Use of reclaimed asphalt pavement (RAP) in the construction of new hot mix asphalt pavements	1 to 2	
		CM-1c-1	One point will be awarded for the use of recycled asphalt pavement (RAP) in hot mix asphalt (HMA)	1	
		CM-1c-2	One additional point will be awarded the use of fractionated recycled asphalt pavement (FRAP) at a higher percentage in the manufacturing of hot mix asphalt.	2	
		CM-1d	Utilization of environmentally acceptable and permitted sites in the construction phase of the project for the disposal of surplus excavated material to an offsite location	1 to 2	
		CM-1e	Salvage or move of buildings	2	
CM-1f	Use of locally available materials (such as local seed stock and plants) in developing specifications for the project	1			