LAKE COUNTY COUNCIL OF MAYORS
PROJECT SELECTION METHODOLOGY

PURPOSE/OBJECTIVES

1. Provide all members of the Lake County Council of Mayors the possibility to participate in receiving Federal Transportation funds at some point in time by offering a variety of possible projects.

2. Reduce traffic congestion in Lake County by investing in the transportation system.

3. Maximize, as much as possible, the amount of Federal and other transportation funds being spent within Lake County.

PROJECT CATEGORIES

Each transportation project is placed into one of eight (8) project category types as listed below. The Council's Federal funds (STP) are available for these categories. For some categories, Federal or State funds other than STP are seen as the primary source of funding.

Category Types

1. Air Quality – Transportation projects that promote air quality (intersection improvements, reduced vehicle miles of travel).

2. Arterial Maintenance – Roadway reconstruction and resurfacing projects, not including add lane projects, on the arterial highway system.

3. Bridge – Roadway bridge projects.

4. Enhancement and Bikepath – Projects eligible for STP enhancement funds as specified in SAFETEA-LU and/or Illinois Department of Natural Resources bikepath funds.

5. Local Assistance Maintenance – A minor roadway resurfacing for non-arterial roadways eligible for Federal funds.

6. Multi-Modal – Non-highway transportation projects, including non-traditional and traditional transit.

7. Safety – Transportation projects that improve traffic safety (intersection improvements, street lighting, etc.)

8. Traffic Flow – Transportation projects that increase vehicle capacity (add lanes, left turn lanes, intersection improvements, etc.).

PROJECT SELECTION FACTORS

Each category contains a list of project selection criteria used to prioritize transportation projects within that category. Below is the list of selection factors. Appendix A shows how the score for each factor is determined.

1. Current V/C – Current Volume/Capacity of a roadway or intersection on a peak-hour basis.

2. Emission Reduction – Estimated decrease in vehicle emissions resulting from the project (using CATS formula and data) by increasing traffic speed or decreasing vehicle miles of travel.

3. Fund Source Criteria – CMAP/IDOT methodology used to prioritize and select which proposed transportation projects are to receive funding from various federal funding sources.

4. Road Condition – Condition of the roadway surface (CRS rating).

PRIMARY FUNDING SOURCE

Each category has a primary source of Federal or other funding for transportation projects listed in that category. The following is a list of funding sources.

	Name	Abbreviation
1.	Congestion Mitigation and Air Quality	CMAQ
2.	Federal Highway Bridge Replacement and Rehabilitation Program	HBRRP
3.	ICC Grade Crossing	ICC
4.	Illinois Department of Natural Resources	IDNR
5.	IDOT Major Bridge Program	MBP

6.	IDOT Truck Route: 80,000 lb. Truck Route Program	TARP
7.	Operation Green Light Transit	OGLT
8.	Surface Transportation Program	STP
9.	STP Enhancement	STP/E
10.	STP Rail Grade Crossing	STP/R
11.	STP Safety	STP/S

ROAD NETWORK

Roadway/Intersection transportation projects must be contained in one of the two roadway networks listed below to be eligible for Federal funds.

Minor Arterials – Major, non-State, roadways as specified on the functional classification map.

Collectors – Minor roadways as specified on the functional classification map.

The following table outlines the project categories previously described and the project selection factors, funding split, funding source, and road network used for each project category.

CATEGORY FUNDING ALLOCATION AND PROJECT SELECTION

CATEGORY

	Local Assistance Maintenance (2) (3)	Arterial Maintenance (5)	Traffic Flow (5) (6)	Multi-Modal (6)	Air Quality (6)	Enhancements and Bikepath (6)	Bridges	Safety
Normal STP Funding Allocation	7%	35%-45%	48%-58%	CSPL	CSPL	CSPL	CSPL	CSPL
Selection Factors (w/in category)								
- Current V/C			X					
- Emission Reduction (CATS)				X	X			
- Fund Source Criteria					X	X	X	X
- Road Condition	X	X						
Primary Funding Source	STP	STP	STP	PACE (4) METRA (4) RTA (4)	CMAQ	STP/E	HBRRP	STP/S
Secondary Funding Source	NA	TARP	CMAQ	OGLT CMAQ	NA	IDNR CMAQ	MBP	ICC
Road Network								
- Arterial	NA	X (1)	X (1)	NA	X	NA	X	X
- Collector	X	X	X	NA	X	NA	X	X

NOTES:

(1) Receives Bonus Points

(2) Projects Programmed Yearly. Project Maximum $60,000 (Fed). Annual Cost of all Projects Is Not To Exceed $200,000 (Fed).

(3) Project Must be Able To Be Completed In The Fiscal Year

(4) Requires Local Sponsor

(5) Project Must Commence Within The Fiscal Year That It Is Programmed.

(6) Projects that include a TCM (See Appendix B) will receive bonus points as indicated in Appendix A.

CSPL – If a project cannot be funded by the primary or secondary funding source then it is placed on the combined supplemental project list for review after the analysis of projects submitted under the normal STP allocation.

70% Federal/30% Local STP Funding Match

No Funding of Phase I or II Engineering

Local Govt. Resolution Committing Funding for Local Match Required.

Projects Should Have a Reasonable Cost Estimate

APPENDIX A

PROJECT SELECTION METHODOLOGY
SELECTION FACTORS

Factor		POINTS			
		Standard	Bonus Arterial	Bonus TCM	Bonus Arterial +TCM
1.	Current V/C*				
	0.00 – 0.34	0	1	1	2
	0.35 – 0.49	1	2	2	3
	0.50 – 0.64	2	3	3	4
	0.65 – 0.79	3	4	4	5
	0.80 – 0.94	4	5	5	6
	0.95 +	5	6	6	7
2.	Emission Reduction				
Based on CMAP transportation project emission reduction data and formula.		TO	BE	DETERMINED BY CMAP	
3.	Fund Source Criteria				
Based on CMAP/IDOT project selection methodology for a particular federal funding category (ex., Congestion Mitigation and Air Quality (CMAQ), STP Enhancement, Highway Bridge Replacement and Rehabilitation (HBRRP).		TO	BE	DETERMINED	
4.	Road Condition (CRS Rating) **				
	1.0 – 2.9	5	6	6	7
	3.0 – 3.9	4	5	5	6
	4.0 – 4.9	3	4	4	5
	5.0 – 5.9	2	3	3	4
	6.0 – 6.9	1	2	2	3
	7.0 – 9.0	0	1	1	2

Notes: A project with a point total of six (6) would rank higher in funding priority over a project with a point total of four (4).

* - defined by the Transportation Research Board Highway Capacity Manual
** - defined by the IDOT Roadway Condition Rating Survey (CRS) Manual

APPENDIX B

LIST OF TRANSPORTATION CONTROL MEASURES (TCM)

Possible TCM's include:

1. Public transportation
2. Parking & driving restrictions
3. Ride sharing (car and van pools)
4. Congestion pricing
5. Flexible work hours
6. Telecommuting
7. Parking fees
8. Traffic flow improvements
9. Regional motor fuel tax
10. Improved pedestrian and bike access
11. Land use coordination
12. High occupancy vehicle (HOV) lanes

Lake County Council of Mayors
STP Project Scoping/Field Review Report

PART I. OVERVIEW

COMMON ROUTE NAME:				ROUTE MARKING:	
LIMITS	*From:*		*To:*		
FEDERAL LOGICAL TERMINI:	*From:*		*To:*		
LENGTH:		COUNTY:		FIELD REVIEW DATE:	
FIELD REVIEW PARTICIPANTS:					
JURISDICTIONS INVOLVED:					
JURISDICTIONS INVOLVED:					

KEY PEOPLE:	*Name*	*Title/of*	*Phone/fax*
		Assigned Local Roads Engineer	

PART II. GENERAL SCOPE OF WORK *(detailed description – pages 9 and 10)*

SCOPE OF WORK	Resurfacing	☐	Lighting	☐
	Widen & Resurface	☐	Pre-emption	☐
	Reconstruction	☐	Traffic Signal	☐
	Add Lanes	☐	Modernization	☐
	New Roadway	☐	TCM Type Project	☐
	Intersection Improvement	☐	Bridge	☐

BRIEFLY DESCRIBE SCOPE/ PURPOSE OF PROJECT							
DESIGN GUILDELINES	3R	☐	***POTENTIAL TYPE OF ENVIRONMENTAL REPORT***	Categorical Exclusion Type 1	☐	Environmental Assessment (EA)	☐
	FAPLHI	☐		Categorical Exclusion Type 2	☐	Environmental Impact Statement (EIS)	☐
	BDE	☐		Environmental Class of Action (ECAD)			☐

ESTIMATED COSTS	Phase III Construction Engineering	**$**	ROW Needed?	Yes ☐ No ☐	Calendar Year of Construction	
	Estimated Total Construction Cost*	**$**	Months to Complete			
	*Project sponsor to attach estimate of costs for major work items					

PART III. EXISTING CONDITIONS

PAVEMENT COND./CRS:	No☐	Year	CRS Rating:	Notes:
VERTICAL CLEARNANCE RESTRICTIONS (*existing profile/overhead structures)*				
ON-STREET PARKING	No☐	One Side☐	Both Sides☐	
HORIZONTAL RESTRICTIONS *ROW/curb & gutter/sidewalks /buildings*				

UNUSUAL SOIL CONDITIONS	Wetlands:	yes☐ No ☐	Dry Land Bridges:	yes☐ No☐	Bogs:	yes☐ No☐	
	Cattails in Ditches:	yes☐ No☐	Contaminated Soil:	yes☐ No☐			
UTILITIES IN PROPOSED ROW AND EASEMENTS	Electrical:	yes☐ No ☐	Sanitary Sewer:	yes☐ No ☐	Telephone:	yes☐ No ☐	Water: yes☐ No ☐
	Gas:	yes☐ No ☐	Pipelines:	yes☐ No ☐	Cable/Fiber:	yes☐ No ☐	Other: yes☐ No ☐

TRAFFIC DATA	ADT: vpd	SU: %	MU: %
NON-PARTICIPATING ITEMS			
OTHER SAFETY CONSIDERATIONS			
POSTED SPEED	mph	GUARDRAIL: yes☐ No ☐	RETAINING WALL: yes☐ No ☐

DRAINAGE DATA			*(complete for each drainage basin)*		
#		Location:		Existing Drainage Type:	Urban ☐Rural ☐
#		Location:		Existing Drainage Type:	Urban ☐Rural ☐
#		Location:		Existing Drainage Type:	Urban ☐Rural ☐

PART III. EXISTING CONDITIONS – ***Continued*** **(*Copy as needed and label 3a, 3b…)***

NUMBER OF STRUCTURES INVOLVED:		(Include nearby structures that may be impacted) (Fill out below or attach master structure report from IDOT for each)			
Structure:	#	Location:			
a.	Waterway or facility crossed:				
b.	Roadway width (face of curb to face of curb):				
c.	Structure width (outside of parapet to outside of parapet):		& Structure length:		
d.	Structure jurisdiction, if other than project sponsor:				
e.	Structure type (concrete, steel or timber):				
f.	Most current deficiency rating				
g.	IL Department of Natural Resources (IDNR) permits	Yes☐ No☐			
h.	Approach conditions (# lanes, s/w, C&G,etc.?)				
Structure:	#	Location:			
a.	Waterway or facility crossed:				
b.	Roadway width (face of curb to face of curb):				
c.	Structure width (outside of parapet to outside of parapet):		& Structure length:		
d.	Structure jurisdiction, if other than project sponsor:				
e.	Structure type (concrete, steel or timber):				
f.	Most current deficiency rating				
g.	IL Department of Natural Resourced (IDNR) permits	Yes☐ No☐			
h.	Approach conditions (# lanes, s/w, C&G,etc.?)				

PART III. EXISTING CONDITIONS - ***Continued*** (***Copy as needed and label 4a, 4b…)***

TOTAL NUMBER OF SIGNALIZED INTERSECTIONS:		*(complete for each signalized intersection)*		
Signalized Intersection:	#	Location:		

a.	Existing Conditions *(geometrics, laneage, turning radii, etc) Attach plan sheet, intersection condition diagram or sketch, if available (sample format attached)*			
b.	Pedestrian signals:	Yes☐ No☐	Locations:	
c.	Existing sidewalks:	Yes☐ No☐	Locations:	
d.	Pre-emption *(railroad-fire–emergency-transit)*	Yes☐ No☐	Locations:	
e.	Is this intersection part of a current or future signal interconnect system? If Yes, Fiber Optic?			Yes☐ No☐ Yes☐ No☐
	If Yes, give limits			
	If Yes, give jurisdictions involved			
f.	Operational deficiencies			
g.	Unusual circumstances and additional discussion			

PART III. EXISTING CONDITIONS - ***Continued*** **(*Copy as neded and label 5a, 5b…)***

TOTAL NUMBER OF UNSIGNALIZED INTERSECTION				*(complete for each unsignalized intersection needing update) (such as turn lanes, updated traffic control, etc.)*
Unsignalized Intersection:		#	Location:	
a.	Traffic Control *(4 way stop, 2 way stop, yield, other)* Warranted?	Yes☐ No☐		
b.	Lane Configuration *(all approaches)*			
c.	Other Conditions:			
d.	Location sketch attached:	Yes☐ No☐		
e.	Special Problems:			
Unsignalized Intersection:		#	Location:	
a.	Traffic Control *(4 way stop, 2 way stop, yield, other)* Warranted?	Yes☐ No☐		
b.	Lane Configuration *(all approaches)*			
c.	Other Conditions:			
d.	Location sketch attached:	Yes☐ No☐		
e.	Special Problems:			

PART III. EXISTING CONDITIONS - ***Continued*** **(*Copy as needed and label 6a, 6b…)***

TOTAL NUMBER OF RAILROADS INVOLVED:		#	*(complete for each railroad involved)*				
Railroad:	#	Location:					
a.	Name of railroad crossed:						
b.	Existing type of crossing: *(timber, rubberized, concrete, asphalt, other)*						
c.	Total # of tracks:		Number of active tracks:		Number of abandoned tracks:		
			Number of mainline tracks:		Number of secondary or spur tracks:		
d.	Width of crossing:		Feet☐ Meters☐				
e.	Other conditions:						
f.	Type of Protection Devices*: (gates, flashing lights, bells, cross bucks only, other):*						
g.	Accommodation for pedestrians and bicyclists crossing the railroad tracks?		Yes☐ No☐				
	Describe:						
	Protection devices for ped/bike accommodations, if any:						
h.	Is/are there signalized intersection(s) within 2000 ft. of the RR crossing?		Yes☐ No☐		If yes, #		
i.	Is/are there railroads immediately adjacent to the project, but not crossed?		Yes☐ No☐		If yes, #		
	Name(s):						
	Description:						
Additional Discussion:							

Lake County Watershed Development Ordinance

Yes☐ No☐	**Permit required for modifying a watercourse draining 20 or more acres. (including culvert replacement)**
Yes☐ No☐	**Permit required for any part of improvement that is in floodplain. (all floodplain with a tributary area >100 acres and 100 year flood frequency)**
Yes☐ No☐	**Permit required for increase in impervious area of 1 acre for intersections and 1.5 acre/mile for continuous road projects**
If Yes to any of the above then: Application Data required by LCSMC (For Information Purposes Only)	
1.	A copy of IDOT-DWR permit application. (May be required)
2.	A copy of the proposed storm water management system showing the location and size of all existing and proposed drainage improvements including plan, profile and cross sections*. If in floodplain include 100 year base flood elevation on plan and profile.*
3.	A copy of all calculations supporting the storm water management plan.
4.	A soil and sedimentation control plan.
Yes☐ No☐	**Disturbs a cumulative total of 1 acre or more of wetlands**

If Yes to the above then: Application Data required by LCSMC (For Information Purposes Only)

Wetland Determination Report		Wetland Use Documentation	
1.	Map showing location of wetland w/developmnt boundary	1.	Determine if project is water dependent
2.	Aerial photo with delineated wetlands	2.	Minimization of impacts
3.	ACOE data sheets with color photos	3.	Selection & justification of appropriate mitigation plan
4.	Written description of wetland functional classification	4.	Appropriate use of wetlands for detention

Design Requirements – Storm water Calculations and General Requirements

1. Drainage area >100 acres or for detention requirements, require hydrograph producing method. **2**. Drainage area <100 acres, rational method is acceptable. **3**. Bulletin 70 rainfall data is required. **4**. Calculations on tributary land is based on the greater or future or existing runoff conditions. **5**. Storm water detention storage requirements shall be in addition to any existing storage. **6**. Buffers shall be provided adjacent to all channels and open bodies of water as well as wetlands of exceptional value.

Design Requirements – Release Rates and Discharge

1. A release rate of no more than 0.04 cfs/acre for a 2 year storm and nor more than 0.15 cfs/acre for a 100 year storm for the added impervious area for widening & resurface project and for all disturbed areas for new construction. **2**. Drainage system must outlet into a well defined receiving channel with adequate capacity. **3**. Overland flow path to be designed for 100 year flow. **4**. Drainage system not to result in interbasin flow. **5**. Discharge into wetlands, existing lakes and ponds due to a new development shall have the initial ½" of runoff detailed immediately before discharge into the lake, stream or wetland. **6**. Storm water discharges shall discharge into a buffer area before entering a waterway, wherever possible.

Design Requirements – Detention

1. Provide all detention/retention/infiltration facilities with an overflow capacity for a 100 year storm. **2**. Minimum outlet pipe size shall be a 12" dia. With a restrictor as required. **3**. Detention facilities shall not be built in a regulatory floodplain.

Design Requirements – Floodplain Development

1. Provide compensatory storage at the rate of 1.2:1 for riverine floodplain and at the rate of 1:1 for non-riverine floodplain. **2**. Bridge and culvert modification (a) maximum created head – 0.1' (b) control velocities from scour, erosion and sedimentation.

Design Requirements – Soil Erosion and Sediment Control

1. Protect properties and waterways from erosion. **2**. Soil and erosion control measures to be in place before any earthwork begins. **3**. Permanent or temporary soil stabilization to be applied within 15 days of final grading. **4**. Areas draining <1 acre shall be protected by filter fabric (i.e. filter fence and straw bales), with drainage areas between 1 & 5 acres a sediment trap or equal shall be used, and for drainage areas over 5 acres a sedimentation basin shall be used to control erosion. **5**. Maximum embankment slope – 3:1. **6**. All storm sewers operating during construction shall be filtered. **7**. All temporary sediment and erosion control measures shall be removed within 30 days of site stabilization. **8**. A stabilized mat shall be placed at all construction access points.

Design Requirements – Wetland Mitigation

1. Use measures to maintain or improve wetland functions. **2**. Mitigate on site where possible. **3**. Provide mitigation through restoration, enhancement, creation or contribution at a minimum ratio of 1:1.

PART IV. ENVIRONMENTAL AND SPECIAL DATA

a.	Documented (IDNR) or Possible Wetlands:	Yes☐ No☐			
	Location(s):				
b.	Public Parks or Forest Preserve:	Yes☐ No☐			
	Location(s)				
	4 (f) Involvement *(definitely or possible?):*				
c.	Cultural Resource Involvement		Description/location(s)		
	Historic district:	Yes☐ No☐			
	Historic structure:	Yes☐ No☐			
	Historic markers":	Yes☐ No☐			
	Other eligible historic designations	Yes☐ No☐			
	Other cultural resources:	Yes☐ No☐			
d.	Land uses adjacent to proposed project:				
	Industrial	Yes☐ No☐	Office	Yes☐ No☐	
	Residential	Yes☐ No☐	Schools	Yes☐ No☐	
	Institutional	Yes☐ No☐	Park or Forest	Yes☐ No☐	
	Commercial	Yes☐ No☐	Cemeteries	Yes☐ No☐	
e.	Hazardous Materials *(UST, LUST, other Hazardous Waste Sites):*	Yes☐ No☐			
	Description/location(s)				
f.	Potential Contaminated Soils				
	Description/location(s)				
g.	Local Acceptability *(A federally accepted public involvement program will be required during project development):*				
	Is there local public support, generally	Yes☐ No☐ Do not know ☐			
	Has the affected public been involved/informed?	Yes☐ No☐			
	How?				
h.	Unusual Circumstances: *(examples: decorative features/political sensitivities)*				

PART V. PROPOSED SCOPE OF WORK (Detailed Description)

a.	Proposed Roadway Cross Section(s):				
	Number of through lanes:		If open drainage, shoulder width:		If closed drainage, parkway width:	
	Median:	None☐ Raised☐ Flush☐ Mixed☐			
	Additional Description:				
b.	Intersection Improvements:	Yes☐ No☐	If yes, Number:		
	Additional Description:				
c.	New Traffic Signal Location(s):	Yes☐ No☐	If yes, Number:		
	Additional Description:				
d.	Traffic Signal Modernization Location(s):	Yes☐ No☐	If yes, Number:		
	Additional Description:				
e.	Signals to be Interconnected:	Yes☐ No☐	If yes, Number:		
	Additional Description:				
f.	Structural Improvements:	Yes☐ No☐	If yes, Number:		
	Additional Description:				
g.	Pedestrian/Bicycle Accommodations:	Yes☐ No☐			
	Additional Description:				
h.	Street Lighting:	Rehabilitation Yes☐ No☐	New Installation Yes☐ No☐		
	Additional Description:				

PART V. PROPOSED SCOPE OF WORK (Continued)

i.	Roadside Improvements (*retaining walls, positive barriers, etc)*	Yes☐ No☐				
	Detailed Description:					
j.	Landscaping:	Yes☐ No☐	Detailed Description:			
k.	Right of Way needed:	Yes☐ No☐	Estimated Acreage:		Number of Parcels:	
	Describe any anticipated ramifications: (such as tree removal, etc).					
l.	Railroad Grade Crossing Improvements:	Yes☐ No☐	If yes, Number:			
	Detailed Description:					
m.	Drainage:	Urban (enclosed) ☐	Rural (open)☐			
	Is detention required?	Yes☐ No☐ *(if yes, check type)*	Detention basin ☐	Detention offsite ☐		
	In line detention ☐	New outlets ☐	Where?			
	Detailed Description:					
n.	Sanitary Sewer:	Yes☐ No☐	Permit Required:	Yes☐ No☐		
	Water main:	Yes☐ No☐	Permit Required:	Yes☐ No☐		
	Additional Improvements:					

Lake County Council of Mayors
Funding Parameters for STP Projects

Funding Eligibility						Match Ratio	
ROW	E 1	E 2	E 3	TCM*	LAPP**	Construction	TCM
NO	NO	NO	YES	YES	NO	70/30	70/30

* Transportation Control Measure
** Local Agency Pavement Preservation Policy

The project sponsor may request the participation of IDOT-Bureau of Local Roads and Streets staff in the scoping process. Such a request shall be made through the Council Liaison.