APPENDIX E: DRAFT CATEGORICAL EXCLUSION APPLICATION



Level Two Design Criteria Checklist

Key Route:	Key Route: Englewood Elevated Railroad Connector							
Marked Route/Road Name: 59 th Street								
State Job No	.: <u>N/A</u>		_ Co	ontract No.:	CD # E	-5-48	7	
Functional Classification: N/A					ghway Type:	N/A		
County(ies):	Cook			Pr	oject Length:	1.75 mi	les	
City:	Chicage	Chicago			ection:	16-E5482-00BT)BT
Project Loca	ion: Betwee	n 58 th and 59 th S	Streets (N/S), from Ho	yne A	ve to Wallace	Ave		
Project Scop	e of Work							
a. Che	eck the approp	riate box. See S	ection 31-6 for definit	ions.				
□ New construction □ *Reconstruction □ *3R (non-freeway) □ *3R (freeway)							*3R (freeway)	
	3P		SMART		HSIP		\boxtimes	Other
*Note: May include "Allowed to Remain in Place" criteria. This form is required for all new construction, reconstruction, and 3R projects.								

b. Provide a brief project description:

The proposed Englewood Line multi-use trail is a planned conversion of an abandoned rail line into a multi-use trail. The existing abandoned rail line was elevated from street grade in 1917 by the Pennsylvania Railroad. The proposed trail is oriented in the east-west direction, parallel to and in between 58th and 59th Streets, from Hoyne Avenue on the west to Wallace Avenue on the east.

Design Criteria	Does the proposed design meet the criteria?			
(Provide numerical values, where indicated.)	Yes	No	N/A	
1. Basic Design Controls (Chapter 31)				
a. Design speed 12 mph (km/h)				
 b. Stopping Sight Distance (SSD) application for vertical curves (downgrade adjusted SSD used) 				
c. Truck SSD (level) (at specific sites)				
d. Level of service (mainline)				
2. Horizontal Alignment (mainline) (Chapter 32)				
a. Horizontal curvature (minimum radius for selected design speed) feet (meters)				
b. Superelevation rates (e _{max} = %)				
c. Superelevation transition lengths				
d. SSD application at horizontal curves (downgrade adjusted SSD used)			\boxtimes	
e. Superelevation distribution between tangent and curve (ratio or percent)				
 f. "Breakover" of outside shoulder on super- elevated curves (percent) 				
g. Relative longitudinal slope of shoulder to edge of traveled way on high side of S.E. curve adjacent to bridge with S.E.			\boxtimes	
h. Superelevation development at reverse curves				

Design Criteria	Does the proposed design meet the criteria?			
(Provide numerical values, where indicated.)	Yes	No	N/A	
i. Is superelevation transition length located off of bridges and bridge approach pavements?				
 Horizontal stopping sight distance on inside of horizontal curves (Level SSD for passenger cars) 				
3. Vertical Alignment (mainline) (Chapter 33)				
a. Maximum grades (in percent)				
 b. SSD at crest vertical curves (level SSD for passenger cars) 				
 c. SSD at sag vertical curves (level SSD for passenger cars) 				
d. Minimum grades (in percent) considering drainage				
e. Critical length of grade			\boxtimes	
f. Truck-climbing lanes/critical grade analysis			\boxtimes	
 g. Design criteria for truck-climbing lanes (e.g., lane width and shoulder width) 				
 Minimum length of vertical curves for selected design speed 			\boxtimes	
 Maximum length of vertical curves (drainage of curbed facilities and bridges) 				
4. Cross Section Elements (mainline) (Chapter 34)				
a. Lane widths feet (meters)				

Design Criteria	Does the proposed design meet the criteria?		
(Provide numerical values, where indicated.)	Yes	No	N/A
b. Traveled way widening			
c. Cross-slopes on through lanes (in percent): Inside lane Lane 1 Outside lanes Lane 2 Lane 3 Lane 4			\boxtimes \boxtimes \boxtimes
d. Shoulder widths feet (meters)(inside) feet (meters)(outside)			\boxtimes
e. Design of parking lanes: • Cross-slope %			
Width feet (meters)			\boxtimes
f. Type of curb and gutter used on median			\boxtimes
 g. Drainage of raised curb medians: Direction of flow of median surface or pavement Direction of cross-slope on gutter % 			X
 h. Type of curb and gutter used along outside edges of pavement 			
 i. Two Way Left Turn Lane (TWLTL) width: Flush type feet (meters) Traversable type feet (meters) 			
j. Median widths:• Urban• Suburban• Ruralfeet (meters)feet (meters)			
k. Shoulder cross slopes %			
I. Fill slopes (V:H)			

Design Criteria	Does the proposed design meet the criteria?			
(Provide numerical values, where indicated.)	Yes	No	N/A	
m. Outside roadway ditch: • Slopes • Depth • Widths Median ditch:				
Slopes Width			\boxtimes	
n. Cross-section transitions into bridges/ underpasses				
o. Use of mountable curbs (V > 45 mph (70 km/h))				
p. Cross-section transition details (e.g., four-lane to two-lane)				
5. Intersections (Chapter 36)				
a. Accommodation of design vehicle (identify vehicle)				
 b. Level of service: Through lanes Turn lanes 				
c. Skew angle				
d. Profiles				
e. Volume guidelines for turn-lanes:Right-turnsLeft turns				
f. Design of right-turn lanes Design of left-turn lanes				

Design Criteria			Does the proposed design meet the criteria?			
(Provide		I values, where indicated.)	Yes	No	N/A	
		Approach taper				
g. Turn-lane	e tapers	Departure taper Bay taper			\boxtimes	
h. Turning r	oadway v					
i. Turn-lane	e Deceleration (rural)					
lengths	Stor	rage (urban)			\boxtimes	
j. Intersect List crite	ion sight o ria and ty					
k. Median c	pening le	ength feet (meters)				
I. Minimum	corner is	sland size sq. ft (sq. m)				
	m. Does right-turn radius accommodate design vehicle without encroachment?					
n. Driveway	/ widths	feet (meters)				
o. Type of t • Two-v	raffic con vay stop	trol:				
	y stop				\boxtimes	
	signals				\boxtimes	
p. Is maxim	ximum grade exceeded on any approach?					
 q. Max. superelevation "e" (in percent) for intersections on curve 						
6. Interchange	s (Chapte	er 37)				
a. Exit	Standar	d type			\boxtimes	
terminal	Design	speed of first curve			\boxtimes	
		exit terminals located line horizontal curve?			\boxtimes	

Design Criteria			Does the proposed design meet the criteria?		
(Provide nu	imerica	I values, where indicated.)	Yes	No	N/A
b. Entrance		ard type			\boxtimes
terminal	enteri	h of tangent after the ng curve			\boxtimes
	Desig curve	n speed of entering			\boxtimes
c. Design spe	c. Design speed of ramp proper mph (km/h)				\boxtimes
d. Design spe		rossroad mph (km/h)			
e. Maximum r • Exit ram	р	%			
Entrance	e ramp	%			
f. Ramp pave	ment v	vidth feet (meters)			\boxtimes
g. Ramp shou ● Left	g. Ramp shoulder widths: • Left feet (meters)				\boxtimes
Right		feet (meters)			\boxtimes
	 h. Horizontal ramp curvature in conjunction with selected design speeds 				
i. Our endere	4	Superelevation rate			
i. Supereleva developmen		Transition length			\boxtimes
ramps		Distribution between tangent & curve			\boxtimes
j. Vertical cur speed on ra		compliance with selected design			\boxtimes
k. Length of a	k. Length of access control at crossroad				
 I. Type of traffic control at crossroad: Stop signs Traffic signals Free flow 					
-	red by	ertical curve used on crossroad the selected design speed of			

Design Criteria		Does the proposed design meet the criteria?			
(Provide nume	-	, where indicated.)	Yes	No	N/A
n. Are crossroad app crossroad intersed					
 Are ramp/crossroad intersections located on a tangent section of crossroad alignment? 					
p. Is decision sight distance available in advance of exit gore?					
q. Is clear recovery area available beyond gore nose?					
r. Level of service: • Exit terminal • Entrance terminal • Ramp proper • Weaving area • Ramp/crossroad intersection					
s. Freeway lane drops	Location	Upgrade Downgrade Inside lane Outside lane At exit terminal Beyond exit terminal Taper length			
7. Roadside Safety (Chapter 38)					
 a. Horizontal clearances: Clear zones on tangent sections Clear zones on outside of horizontal curves b. Barrier warrants 					
c. Barrier length of n	eed				

Design Criteria	Does the proposed design meet the criteria?			
(Provide numerical values, where indicated.)	Yes	No	N/A	
d. Deceleration criteria for impact attenuators			\boxtimes	
8. Structure Planning/Geometrics (Chapter 39)				
a. Clear roadway bridge widths feet (meters)				
b. Structural capacity of bridges				
c. Vertical clearances 14.75 feet (meters)				
9. Pavement Design (Chapter 54)				
a. Structural capacity of roadway			\boxtimes	

Note: Use multiple forms for each roadway within the project.

Prepared by: ______ Designer (IDOT or Consultant) Signature

_____ Date: _____