

KATS Commuter Bike Route (“Map 7”) Implementation Plan

Draft Version: July 11, 2017

Updated after June 27, 2017 meeting and per information received to date; Megan Arndt, Deb Buchholtz, Kathleen Hoyle, Mark Miller, Ryan Minkus, Patricia Randall, Paul Selden, Denise Smith, Jodi Stefforia and Randy Thompson present

The Kalamazoo Region Bike Route Committee is developing this plan.

Goal

“Map 7” - whole map signed in five years; see Appendix A for list of benefits.

See Appendix B for sample resolutions for incorporating “Map 7” or the entire KATS 2045 “Non-motorized Element” by reference, into any given jurisdiction’s master plan

Time Frame

Iterative implementation; each jurisdiction doing what it sees best

Year 1 (2017): all or part implemented in lead jurisdictions, preferably ea. route as complete as possible (w/in and/or across all juris.; progress re-examined quarterly plus before/by end of 2017

Will track status & progress of lead jurisdictions, with priority on 2017 leads

Years 2-5: Goals set each year after progress review; plans revised accordingly

See Appendix C for ideas on ways to prioritize routes

Funding sources

2017: Each jurisdiction seeks funding independently. Ideas for funding located in Appendix D.

Signage: Design

Design concept: uniform “template” based on familiar “The Portage Bikeway” sign; surveys to date show a preference for a similar sign model that is 18” wide by 24” tall size, green background with white “shield,” the word “Bikeway,” a “commuter” bicyclist symbol, with additional text as judged acceptable by the jurisdiction paying for the signs; see <http://bikefriendlykalamazoo.org/wp/wp-content/uploads/2017/07/Bikeway-Sign-Idea-Prelim-Survey-Tallies-170119.pdf> for survey results through January 2017.

Jurisdictions with the requisite standing/authority may vary in certain details from the design concept, within generally accepted standards/guidelines for sign design. For example, designs from the City of Portage, the City of Kalamazoo, the Michigan Department of Transportation, and the lead townships participating in this committee all support the design concept size, colors, use of the word “Bikeway,” and a symbol denoting a bicycle; however, the text above the word Bikeway, the “bike symbol” and fonts used may vary.

In a letter dated June 9, 2017, MDOT expresses support for this initial sign concept, and will be working towards a sign design for use on the “M-Roads” within Map 7, with a follow-up in a subsequent email dated July 7, 2017 ; see <http://bikefriendlykalamazoo.org/wp/wp-content/uploads/2017/07/MDOTMap7LtrandEmail.pdf> and Appendix E for further information.

Distance/destination/direction plaques posted underneath primary sign approximately every mile; some arrows; see <http://bikefriendlykalamazoo.org/wp/wp-content/uploads/2017/07/Bikeway-Sign-Guidelines-161221-1.pdf> for more location details

Benefits of design include driver recognition and awareness, familiarity, marketing for each jurisdiction, and the simple fact that Portage should not be asked to change their sign

Any Act 51 Agency has independent authority to use green/white signs they desire, within certain parameters; we are relying on a community-minded, cooperative effort, with MDOT’s, RC’s input and participation in this committee

Examples of bicycle symbol designs currently being distributed may be found at <http://bikefriendlykalamazoo.org/wp/wp-content/uploads/2017/07/Bike-Symbol-Ideas-Summary-170707.pdf>

See Appendix E for details on obtaining permission to vary from MMUTCD

Estimating Sign Placement / Count

General guidance: per wayfinding needs (at start/end; prior to turns and after major intersections)

Probably 4-5 per mile on each side of road in more urban areas, as few as 1-2 per mile in some rural areas; placement to be mapped per ea. jurisdiction’s resources; BFK can assist

Cost TBD; up to approx. \$200/installed (includes engineering, \$36/main + \$11/sq. ft. plaques, arrow, post, and installation); Rathco estimates \$18.75 for a single 18"x6" D1-1a (destination, distance, direction) sign per sample shown at March 21, 2017 meeting

Based on City of Portage's experience, expect 1-2% annual sign replacement

If damaged by motor vehicle, may be able to collect cost from driver/insurance company

See Appendix F for more details from earlier drafts of plan

Township / Road Commission Considerations

Kalamazoo County: townships must submit a permit application, one per route, to the RCKC for a permit to install the signs; permit to include map of probable locations; route must be incorporated into the jurisdiction's non-motorized plan; mention that route is part of "Map 7" in applications; to facilitate RCKC review, use consistent in permit style

How best to present "big picture" to VBRC and RCKC boards to be discussed in future

Van Buren: considerations pending

See Appendix G for further background

2017 Goals & Next Steps

Key Steps

1. Set 2017 Goal (scope: routes w/in jurisdiction; encourage neighbors to complete in 2018-?)
- 2a. Prepare Sign Location Maps (requesting BFK's assistance, or not?)
- 2b. Incorporate Routes Into Master Plans (via "standard" resolution, or otherwise?)
- 2c. Design Sign (i. ideas ii. refine iii. stakeholder decisions iv. formal approvals)*
3. Budgets (rough)
4. Approvals (internal, external)
5. Bids
6. Permit Applications
7. Installation

Goal: personal goal of participant; may or may not represent formalized goal of jurisdiction.

BFK: helping with 2a, 2c, and facilitating working meetings as long as it makes sense; 2c is assumed as necessary for all jurisdictions, hence not listed below.

Antwerp Twp – Goal: _____? Next: 1

Comstock Twp – Goal: Sign entire map. Next: 2a

Cooper Twp – Goal: Sign entire map. Next: 2a (w/BFK); 2b

Kalamazoo (City) – Goal: Per R. Kik, J. Baker, selected routes. Next: 2a, 2b

Kalamazoo Twp – Goal: Sign entire map. Next: 2a

MDOT – Goal: Sign entire map within 5 years pending funding Next: 2a

Oshtemo Twp – Goal: Sign entire map. Next: 2a; 2b

Paw Paw (Village) – Goal: Goal: _____? Next: 1

Portage (City) – Goal: Sign entire map. Next: 2a

Schoolcraft Twp – Goal: _____? Next: 1

Texas Twp – Goal: Sign entire map. Next: 2a (w/BFK); 2b

Vicksburg (Village) – Goal: _____? Next: 1

In-Meeting Decisions / Updates (previously decided/reported items not repeated)

1. Can we get/should we get a letter from the Counties or the Road Commissions supporting our efforts? It may help with township boards. Cities / villages may want to get similar board support; how obtained may vary.
Status: Formal support from road commissions may be unnecessary, per Deb Buchholtz, if RCs are tacitly incorporating KATS' plans in their projects.
2. Should / how should we present our "big picture" plan to road commissions, MDOT?
Status: MDOT oriented, supports plans; other formal presentations TABLED pending informal work..
3. Input from Van Buren Co Rd Comm.
Status: PENDING Larry Hummel's availability
4. Update / post draft of most current draft of this implementation plan on BFK website?
Status: DECIDED, to post this (July 7, 2017) and future drafts on line (see Planning & Policy Examples under the Resources tab)

Appendix A: Benefits of Bike Route Wayfinding Networks / Our Network

It may be that each independent Act 51 agency has the authority to use bike route signs of their own design on roads in their own jurisdiction. There are benefits to using a more or less commonly agreed-upon design and guide for their use throughout the KATS MPO, however. These benefits are well-enough established so that they are listed in a number of authoritative sources.

NACTO's guide for bike route wayfinding lists the following benefits for signed bicycle routes:

- Familiarizes users with the bicycle network.
- Identifies the best routes to destinations.
- Overcomes a "barrier to entry" for infrequent bicyclists.
- Signage that includes mileage and travel time to destinations may help minimize the tendency to overestimate the amount of time it takes to travel by bicycle.
- Visually indicates to motorists that they are driving along a bicycle route and should use caution.
- Passively markets the bicycle network by providing unique and consistent imagery throughout the jurisdiction.

Source: <http://nacto.org/publication/urban-bikeway-design-guide/bikeway-signing-marking/bike-route-wayfinding-signage-and-markings-system/>

MDOT uses the "Relative Danger Index" that favorably contrasts bike routes vs. other common bike amenities; in the RDI index only bike lanes score better.

Source: <http://www.bikexpert.com/bikepol/facil/sidepath/sidecrash.htm>

A Summary of a Comprehensive Evaluation of Pedestrian and Bicycle Crashes and Causes in Michigan found that, "86% of crashes in the category of failing to yield did not have any signage present." In the same light, only some 1% of such crashes occurred when bike route signage was present, a level roughly comparable to crash rates when bike lane signage was present (page 12, http://www.michigan.gov/documents/msp/PEDESTRIAN-BICYCLE_ANALYSIS_-_A_SUMMARY_REPORT_-_FINAL_-_022916_523923_7.pdf).

AASHTO's Guide for the Development of Bicycle Facilities (4th ed., page 2-21) lists benefits for bike route wayfinding systems, including:

- enhances other encouragement efforts
- provides a visible invitation to new bicyclists
- encourages current bicyclists to explore other destinations

but has not yet declared a safety benefit.

See link below for ideas drawn from AASHTO on how to answer the question, "Why are you proposing on-road bike routes right next to perfectly good trails?" Short answer: "Authorities like AASHTO state that on-road routes may offer potential safety benefits in certain areas, and are likely to be preferred by many bicyclists. AASHTO states that on- and off-road facilities should not be used to preclude each other."

[<http://bikefriendlykalamazoo.org/wp/wp-content/uploads/2017/03/AASHTO2012BicycleFacilitiesExcerpts.pdf>]

The City of Chicago found that "The Signs did the Following for the Majority of Bicyclists:"

- Helped with Navigation
- Helped Them Feel More Legitimate to Motorists as Legal Users of the Road
- Encouraged Them to Take New Streets

Source:

<http://www.bikewalk.org/2006conference/vconference/presentations/GrantDavisChicagosBikewaysSignageSystem.pdf>

According to Steve Stepek, once complete, this MPO-wide network may be the most extensive in the State of Michigan.

From email to Doug P & others from Paul Selden on December 2:

- This concept expands bike-ability to more communities since not everyone lives near a trail and since, per road commission policy, many areas are not permitted to have bike lanes.
- Bike routes have a great cost/benefit ratio as a way to connect other bike facilities.
- Bike routes can connect people with the trails
- It makes sense to be able to ride a bike to a trail; this would make more people feel okay about riding to the trails.
- There is a marketing benefit to promoting our MPO as "first," "most," "a leader," etc., if we can pull this off.
- The bike route network idea is affordable for a greater range of townships, and gives them a way to add a bicycling amenity to the list of their special features.
- Related signage raises awareness of each of our communities' unique identities.
- Related signage gives bicyclists concrete destinations to "aim for" on their rides.
- Related signage tells out of towners that we are bicycle friendly.

There are undoubtedly more local benefits that we need to list, as well. Doug Plachcinski has developed a presentation for tailoring/use by others; see <http://bikefriendlykalamazoo.org/wp/wp-content/uploads/2017/04/regionalbikerouteshelpeverybody003.pptx>

Appendix B: Resolutions Supporting Non-Motorized Plan

A number of jurisdictions have passed resolutions supporting and /or incorporating the bike route network found in “Map 7,” including Kalamazoo County, the City of Portage, Kalamazoo Township and Comstock Township. Their resolutions are posted in links found on Bike Friendly Kalamazoo’s web site, on this page: <http://bikefriendlykalamazoo.org/planning-policy-examples/>

Two sample resolution “templates” are posted at: <http://bikefriendlykalamazoo.org/wp/wp-content/uploads/2017/03/Example-Resolutions-Supporting-NMPs-170319.docx>.

An example of such a “template” for a resolution reads:

Whereas, on July 5, 2016, the Kalamazoo County Board of Commissioners passed a resolution to support the development and implementation of a Complete Streets Policy that takes into consideration the needs of non-motorized users of roads and their right of ways; and

Whereas, many Cities, Townships and Villages within our Metropolitan Planning Organization (MPO) either have adopted non-motorized plans of their own, or are in the process of considering or actively developing and implementing non-motorized plans that could involve cross-jurisdictional cooperation and connectivity; and

Whereas, on April 27, 2016, the Kalamazoo Area Transportation Study (KATS) included and adopted a well thought-out non-motorized plan covering not only our own jurisdiction but also the rest of the MPO (entitled, the Non-Motorized Element, beginning on page 117 in the KATS 2045 Metropolitan Transportation Plan), that was reviewed and vetted through an open and systematic public process by community stakeholders, KATS staff, and KATS Technical and Policy Committees, which Committees duly represent the Road Commissioners of Kalamazoo County and the vast majority of the KATS MPO’s Cities, Townships and Villages; and,

Whereas, our jurisdiction recognizes that an important aspect of fiscal prudence is to make use of and build on resources which already exist; and

Whereas, our jurisdiction believes that it is important and beneficial to continue to add its voice, support and encouragement to discussions surrounding non-motorized planning, taking action where feasible;

Now, Therefore be it resolved that our jurisdiction: endorses and incorporates by reference the KATS Non-Motorized Element as our own Non-Motorized Plan to the extent it is in concert with related plans of

our own; supports its implementation; and, encourages our local transportation agencies and the other jurisdictions within the KATS MPO to likewise support and implement the KATS Non-Motorized Element in a balanced fashion, while encouraging each other to do likewise in the highest traditions of intergovernmental collaboration.

Appendix C: Ideas for Categorizing/Prioritizing Routes

Reasons for categorizing routes include helping to determine which might be “easiest” to sign (for many reasons), which might be signed in Years 1-5; other?

Ideas for categorizing/prioritizing routes:

1. Routes with no intervening jurisdictions, e.g., Portage-Texas Commuterv2.
 2. Routes where intervening jurisdiction serves only as “host,” e.g., Schoolcraft-Mattawan Commuterv3, where route passes through southwest corner of Texas Twp.
 3. Routes involving jurisdictions with “bike-friendly” policies
 4. Routes solely using road commission roads, e.g., Cooper-Alamo Commuter.
 5. Routes solely using MDOT roads, e.g., Lawton-Paw Paw Commuter.
 6. Routes to/from KVCC, WMU and other jurisdictions.
 7. Routes paralleling stretches of off-road multi-use trail, e.g., Galesburg-Comstock Commuter.
 8. Routes making use of road with existing bike route/bike lane signage, e.g., within and between Portage and Kalamazoo.
 9. Routes involving jurisdictions that may require relatively more outside funding assistance, e.g., Fulton-Climax Commuterv2
 10. Intra-jurisdictional routes, e.g., Oshtemo Intra-Jurisdictional Node Connector
- Other?

Appendix D: Funding Sources

Private funds: can brainstorm donor names

KATS: set aside something from TAP each year explicitly for this project; this shows it is a regional priority; with or without a match requirement

Non-Motorized Element in KATS 2045 Transportation Plan presents series of ideas. See pages 149-155 at <https://katsmpo.files.wordpress.com/2012/03/2045-mtp-adopted-4-27-2016.pdf>

Local dollars: from each jurisdiction when a project is pursued locally

Other grants: Gilmore, safety funds (talk with Steve, Doug), Kalamazoo Foundation

Rathco/sign makers: might give discount, offer free installation for larger orders, etc.?

A “limited invitation” funding brainstorming meeting was held on August 11, 4pm at SWMF offices.

Andrew Haan, Chris Tracy, a limited number of others were invited. Please see

<http://bikefriendlykalamazoo.org/wp/wp-content/uploads/2016/08/BFK-Bike-Route-Funding-Meeting-Notes-160811.pdf> for copy of meeting notes emailed to you earlier.

Summary: if community wants to fund signing all of Map 7 at once, a major community effort and careful strategy would be needed (e.g., for an area-wide millage or fund-raising campaign); other efforts can be scaled, with local funding being the “easiest” to obtain.

Appendix E: Additional Sign Design Comments

An idea for a uniform “template” used for the new signs with space for ea. jurisdiction’s name on main sign (per the “Portage Bikeway Model”) is jelling: many benefits including driver recognition and awareness, familiarity, marketing for each jurisdiction;

MDOT is collaborating on sign design; MDOT’s June 9, 2017 letter (previously mentioned) supports general sign design concept, making it doubtful that further “special approvals” will be needed; per extract of email from Denise Smith of MDOT received July 7, 2017:

“We believe that we can only speak for MDOT roads; how other jurisdictions choose to proceed on their roads is not for us to decide.

“The letter that we have already provided includes that “we are comfortable with the general sign design (green/white 18” wide x 24” tall with a bicycle symbol and text – a modified version of the M1-9 sign in the Michigan Manual on Traffic Control Devices)”. From our point of view, this speaks directly to our overall support of MAP 7 as well as our acceptance of the sign design (plus it references the MMUTCD). That point can be highlighted to let interested parties know where MDOT stands on the effort.”

Per Norm Cox and Josh DeBruyn, can ask for deviations; if MDOT is to participate on M-roads, must meet their standards for exceptions; NOTE:

Could be mixed with other bike route “D” and “M” series signs

Conventional street name signs along some bicycle routes may be redesigned to incorporate the street’s identity as a bicycle route, within jurisdictions having their own Act 51 authority. This could reduce clutter in the most urban areas, but it would reduce visibility at the same time.

A simple “one” page local set of guidelines would be helpful, based on current standards.

Needs to meet reflectivity and grade standards (Portage Bikeway sign is “high intensity”)

Per extracts of email thread between Josh DeBruyn and Paul Selden; forwarded to our initial group:

“The federal experimentation process goes through the FHWA Washington DC headquarters (HQ) office.

“A request for experimentation would likely be done in conjunction with MDOT and probably the FHWA Michigan Division office so any requests submitted to FHWA HQ would likely already have been approved by MDOT and FHWA MI Division.”

“A request for Interim Approval (IA) of a sign supported by the NCUTCD would go through me and MDOT’s Traffic and Safety staff. Additionally, I would expect that local road agencies where the sign would be installed should be informed of the intent to seek an IA on the sign and they should agree to install it once approved. Otherwise, the IA is a moot point.”

“Mark Bott is the Manager of MDOT Traffic and Safety.”

See <http://mutcd.fhwa.dot.gov/condexper.htm> for more information. An example response from the FHWA to such an application letter is at

http://mutcd.fhwa.dot.gov/resources/interpretations/9_09_74.htm See also

http://bikefriendlykalamazoo.org/wp/wp-content/uploads/2016/08/TAPWayfindingV6_Cox.pdf for this response plus additional helpful information pertaining to a professional approach to route sign budgeting and counting, presented by Norm Cox. Paul Selden discussed Louisville (KY)’s application with Mark R. Kehrli, Director of Transportation Operations with the FHWA and expects to receive a copy of the actual sign variation application package fairly soon.

Possible Acceptable Solutions: Call it a “Bikeway” on main sign as a unifying theme; use “modern” symbol for bicyclist; acceptable fonts, sizes (Clearview font may be current standard). See Norm Cox’s May 21, 2015 presentation at an MDOT Bike & Pedestrian meeting for many ideas at: <http://bikefriendlykalamazoo.org/wp/wp-content/uploads/2016/08/Bike-Route-Signing-Options-Norm-Cox.pdf>

Use add on signs to indicate destination, distance – check to see if this really saves money since installation costs comprise most of the costs; Paul Selden paid \$30 for a single Portage sign.

Proposed “Intergovernmental Collaborate Sign Policy” (comments below are limited to the proposed policy’s relationship to our draft Map 7 plans and may not reflect the entire range of comments we may have as a group or otherwise):

- a) We want to reserve the right to use the Portage Bikeway sign (see page 28) as a model for signs we might want to use, across the entire county (if we decide to use that sign as a model, once our work is done).
- b) We want to reserve the right to use all of the MMUTCD signs currently allowed for bicycles (and not see them prohibited up front, en masse).
- c) We want to reserve all of the rights / authorities we now have, and make sure that none of current policies/bylaws/etc. nor the current rights / authorities currently reserved to the townships/cities/villages elected officials and management, be diminished by the proposed road sign policies.
- d) We are uncertain about the answer to these important questions: 1) Under what authority is this policy being adopted that reduces the number and/or type of signs that may be used and gives the traffic engineer sole authority to grant a deviation or remove an existing sign? 2) Where is due process and the right to be heard?

Note: Most of us have submitted comments as part of the Sign Policy Committee’s request for public input. We are waiting to learn what the next steps in their process will be. UPDATE: MDOT’s “Traffic Sign Design, Placement, and Application Guidelines” released March 2017 may have implications for the need for further work on a more local “Intergovernmental Collaborative Sign Policy;” see

http://mdotcf.state.mi.us/public/tands/Details_Web/mdot_signing_design_placement_application_guidelines.pdf

Appendix F: Sign Placement / Cost Details

Paul Selden inquired whether City of Kalamazoo or City of Portage has a sign inventory. No reply from City of Kalamazoo’s Traffic Engineer; City of Portage does not have such an inventory as of early 2017, per Streets Dept., but may be working on it

Paul Selden conducted a physical inventory of signs on representative stretches in the City of Kalamazoo and Portage. High level results: 90 signs (on one side of road) in 17.3 miles, for an average of 5.2 signs per mile. (See <http://bikefriendlykalamazoo.org/wp/wp-content/uploads/2016/08/Example-Bike-Route-Sign-Counts-160829.xlsx> for more details.)

Least sign count per mile, one side of road:	3.0
Most sign count per mile, one side of road:	7.5
Standard Deviation:	1.3

Note: Signage in Kalamazoo and Portage often seem to be spaced per guidelines for bike lanes (vs. bike routes); their signs may be more closely spaced than on typical bike routes.

The City of Chicago posts this about bike route signs per mile: “Placed Every ¼ Mile; Placed After Every Turn; Placed After Every “Major” Signalized Intersection” (see <http://www.bikewalk.org/2006conference/vconference/presentations/GrantDavisChicagosBikewaysSignageSystem.pdf>)

Approximate locations (subject to easement and utility location) can be estimated using computer to get street level views, etc.

Each route determines actual number and placement (e.g., fewer needed on stretches with fewer intersections)

Each jurisdiction can introduce a resolution to incorporate by reference the KATS’ 2045 Metropolitan Transportation Plan’s “Non-Motorized Element” as their own, if they do not have their own non-motorized plan, OR amend their existing NMP to incorporate “Maps 6 and 7” from the KATS plan, to meet possible permitting requirements of the RCKC

Introduce concept to board before having a fairly firm estimate, or wait to get an estimate first, on a jurisdiction basis?

BFK held an estimating session on Aug. 4; 3:30-6pm. Minutes are posted on BFK’s website and are also at <http://bikefriendlykalamazoo.org/wp/wp-content/uploads/2016/08/BFK-Commuter-Bike-Route-Estimating-Session-Minutes-160804.pdf> High level results: all individual routes estimated; details to follow and also be posted on BFK’s website. Important: due to overlap among many of the routes, adding the length of individual to/from route will result in significant over-estimates.

Using a “Scale Master ProXE” measuring tool and “Ride With GPS,” an on-line mapping tool, Paul Selden has estimated the total “one side of road” miles of signage in each of the following jurisdictions as follows:

- Comstock Township: 61.4 miles
- Cooper Township: 26.2 miles
- Kalamazoo Township: 28.1 miles
- Texas Township: 54.7 miles

Note: “One side of road” miles = miles of “to/from” bike route signs, not centerline miles.

BFK website has a link to the individual routes used in KATS’ Map 7; or, see

<https://ridewithgps.com/users/800851/routes>

Maintenance/Replacement: City of Portage reported four Bikeway signs needed to be replaced last year, due to various causes: accidents, vandalism, weather damage (e.g., fallen trees).

Appendix G: Background on Township Considerations

An email dated September 26 from Ryan Minkus of the Road Commission of Kalamazoo County contained his views on various points (that came up during a meeting he held with Doug Plachcinski, Jodi Stefforia and Paul Selden on August 30, 2016):

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a) *Interest was expressed in partnering with RCKC bids for signs procurement to potentially utilize on the volume of a larger agency.*

RCKC does not have a standing PO or regularly solicit bids for large sign material contracts. RCKC maintains an inventory/stock pile of signs for the county, and from time to time will solicit quotes from vendors as-needed to replenish our supply.

b) *Interest was expressed in having RCKC staff install the signs and posts for the routes.*

Non- motorized facilities may be part of a primary or local road or standalone project. Following the notification timelines outlined in the RCKC Non-motorized Facilities Policy, if the sign installation were to correspond with a road improvement project, the installation of the signs could be considered with a project and paid for by the applicant. For standalone projects, the applicant would be responsible for the installation.

c) *Clarification was requested on sign placement.*

Per the MMUTCD: Signs requiring separate decisions by the road user shall be spaced sufficiently far apart for the appropriate decisions to be made. One of the factors considered when determining the appropriate spacing shall be the posted or 85th-percentile speed.

d) *Clarification was requested on the ability to share posts with other signs.*

Per the MMUTCD: Signs should be individually installed on separate posts or mountings except where: A. One sign supplements another; B. Route or directional signs are grouped to clarify information to motorists; C. Regulatory signs that do not conflict with each other are grouped, such as turn prohibition signs posted with one way signs or a parking regulation sign posted with a speed limit sign; or D. Street name signs are posted with a stop or yield sign.

[Note: Attachment A in prior editions of this Plan contains information on sign “piggybacking.”]

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As summarized by Paul Selden, two key implications for us per the above four items appear to include:

- 1) The RCKC doesn't manufacture signs.
- 2) The RCKC doesn't have the staff to install them.

Other points in our August 30 RC meeting were summarized by Paul S.:

- a) the RCKC has the authority to put up whatever sign designs they want in their own jurisdiction;
- b) we would need to make a compelling case to deviate from standard MMUTCD signage, but are allowed to make that case;
- c) Ryan "prefers" not to piggyback signs;
- d) actual plans for the rough placement and sign type need to be route by route specific, of the sort that Texas Twp recently got a permit to do on one of their neighborhood routes; and,
- e) Ryan was reassured that we would be moving forward in a collegial and cooperative way with the RCKC.