COMMUNITY ASSET PLANNING ENGINEERING :

LINCOLN TRAIL AREA DEVELOPMENT DISTRICT

Charlie Allen, Director of Engineering
Ava Oljeski, GIS Specialist

LTADD

(LINCOLN TRAIL AREA DEVELOPMENT DISTRICT)

- **8 Counties;** Breckinridge, Grayson, LaRue, Hardin, Marion, Meade, Nelson, Washington
- In addition to our **26 Cities**
- Community Asset Planning Covers 3 Main Areas
  - **Disaster Resiliency**
  - **Infrastructure**
  - **Design and Mapping**
- https://ltadd.org/

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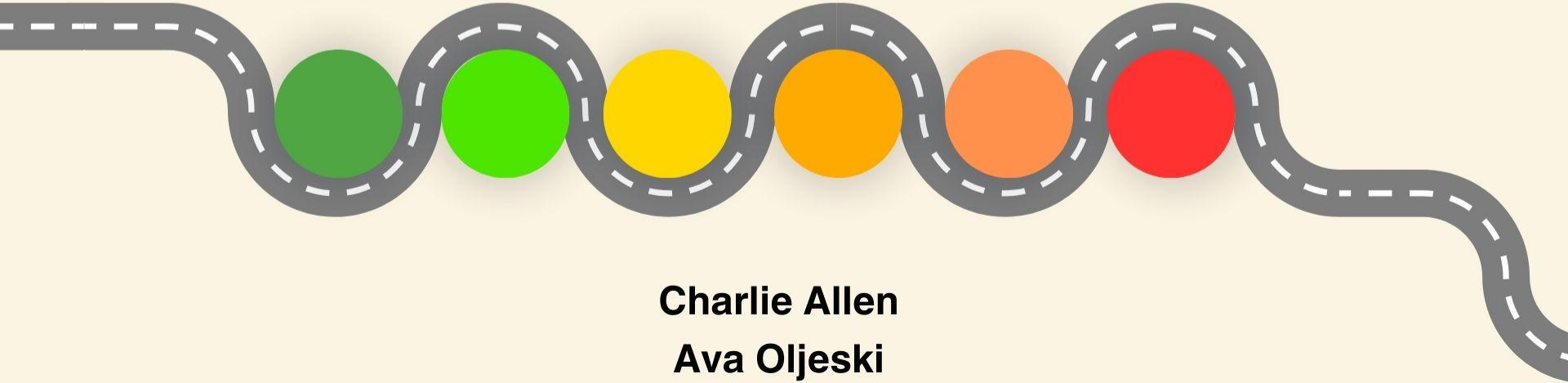
Lincoln Trail
Area Development District
~ established 1968 ~



Charlie Allen

Ava Oljeski

PAVEMENT CONDITION RATING OBJECTIVES

Evaluate

Evaluate and document the condition of county roads.

Improve Accuracy

Ensure consistency and accuracy in method.

Create Hierarchy

Highlight areas of highest need.

Cost-effective Plan of Action

Save money by generating list of what should be paved next

Interactive Interface

Create an ArcOnline Dashboard which displays the ratings on a scale

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Lincoln Trail Area Development District - established 1968 -

LINC SYNC RANKING SYSTEM

0-100 SCORE

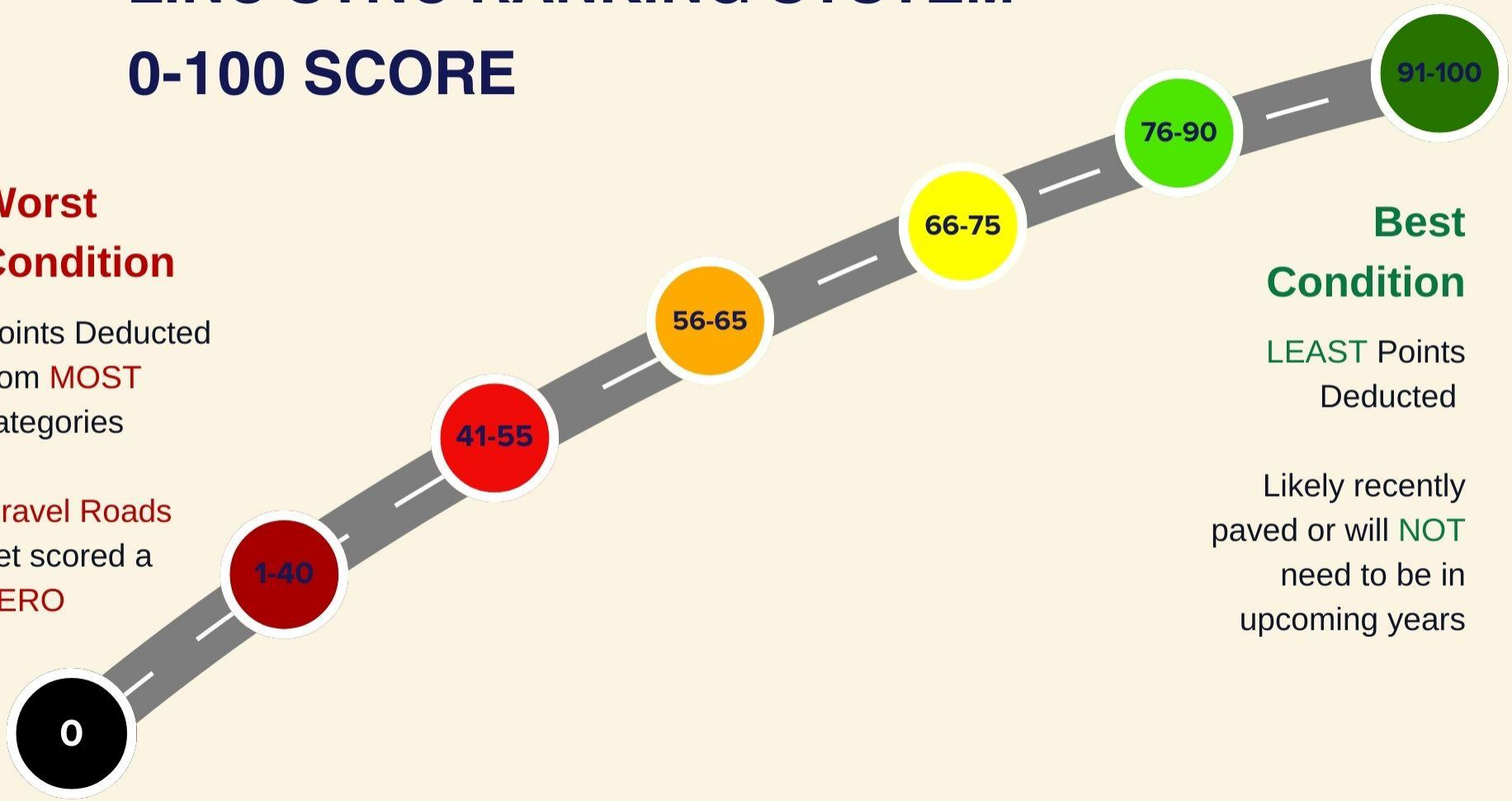
LINC SYNC RANKING SYSTEM

0-100 SCORE

Worst Condition

Points Deducted from MOST categories

Gravel Roads get scored a ZERO



Best Condition

LEAST Points Deducted

Likely recently paved or will NOT need to be in upcoming years

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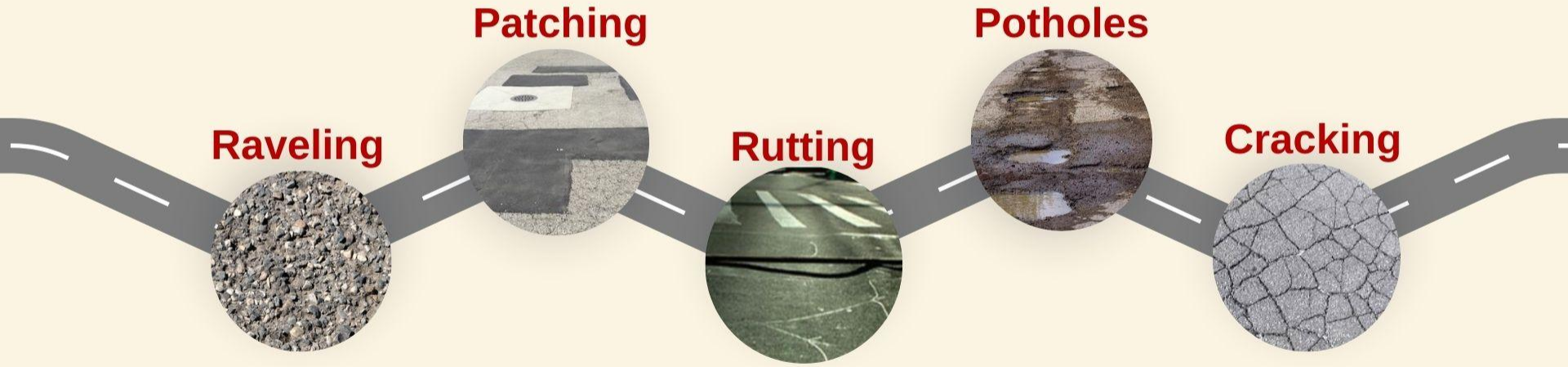
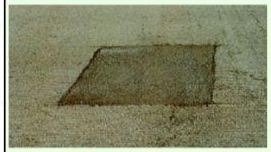
5 PAVEMENT DAMAGE TYPES



FIELD DEDUCTIONS KEY

*Printed out and taken with us physically while surveying

SEVERITY					EXTENT	
DISTRESS	*NONE*	*LOW*	*MEDIUM*	*HIGH*		
Raveling	 (-0) Ideal Condition	 slight loss of sand (-3)	 open texture (-6)	 rough or pitted (-10)	0-5%	(-0)
					5-20%	(-5)
					20-50%	(-8)
					50% +	(-10)
Patching	 (-0) Ideal Condition	 Less than 1 ft2 (-3)	 Less than 9 ft2 (-6)	 Greater than 9 ft2 (-10)	0-5%	(-0)
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Rutting	 (-0) Ideal Condition	 ⅛" - ⅜" (-3)	 ⅜" - ¾" (-7)	 >¾" (-10)	0-5%	(-0)
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Potholes	 (-0) Ideal Condition	 depth= less than 1" **OR** area= less than 9 ft2 (-4)	 less than 1 in, greater than 9 ft2 **OR** greater than 1 in but less than 9 ft2 (-8)	 depth greater than 1" **AND** area greater than 9ft2 (-10)	0-5%	(-0)
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					20-50%	(-7)
					50% +	(-10)

***For ONE isolated instance of the distress, make a note in the comment- doesn't need to affect the mile segment score**

FIELD DEDUCTIONS KEY

Severity: How **Intense** the damages are

Extent: How **Frequent** the damages occur

SEVERITY					EXTENT	
DISTRESS	*NONE*	*LOW*	*MEDIUM*	*HIGH*		
Raveling	 (-0) Ideal Condition	 slight loss of sand (-3)	 open texture (-6)	 rough or pitted (-10)	0-5%	(-0)
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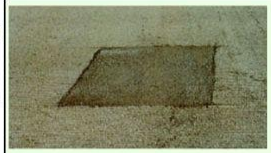
Patching	 (-0) Ideal Condition	 Less than 1 ft2 (-3)	 Less than 9 ft2 (-6)	 Greater than 9 ft2 (-10)	0-5%	(-0)
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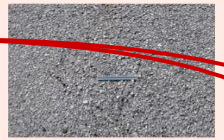
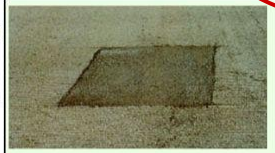
FIELD DEDUCTIONS KEY

	DISTRESS	NONE	LOW	MEDIUM	HIGH	EXTENT	
1	Raveling	 (-0) Ideal Condition	 slight loss of sand (-3)	 open texture (-6)	 rough or pitted (-10)	0-5%	(-0)
						5-20%	(-5)
						20-50%	(-8)
						50% +	(-10)
2	Patching	 (-0) Ideal Condition	 Less than 1 ft2 (-3)	 Less than 9 ft2 (-6)	 Greater than 9 ft2 (-10)	0-5%	(-0)
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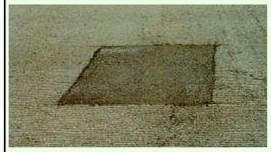
Patching	 (-0) Ideal Condition	 Less than 1 ft2 (-3)	 Less than 9 ft2 (-6)	 Greater than 9 ft2 (-10)	0-5%	(-0)
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					50% +	(-10)

EXAMPLE DEDUCITION:

100...

-6,-10

-3,-0

-0,-0

-10,-5

-4,-5

= 57

*For ONE isolated instance of the distress, make a note in the comment- doesn't need to affect the mile segment score

PROCESS WITHIN ARC GIS FIELD MAPS

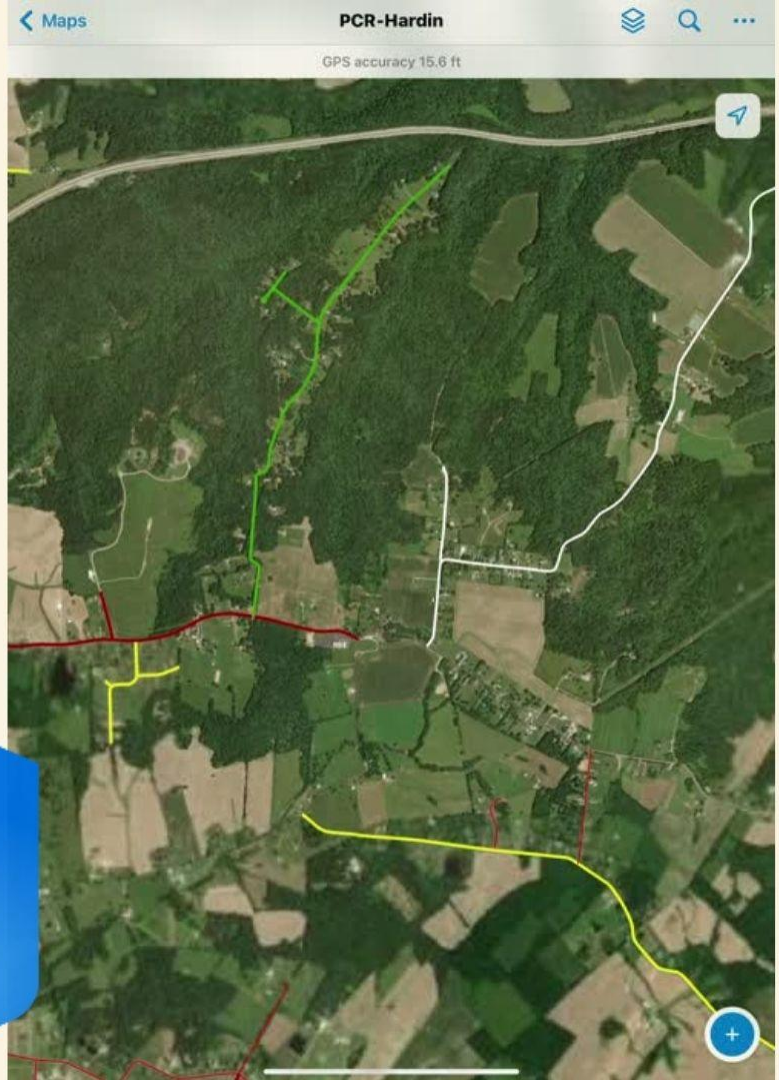
Done on site with an iPad

White roads are unscored

As soon as you input a score, the color changes

You can edit MULTIPLE roads at once

The segments are determined by KYTC's way of breaking them up but many will recieve the same score



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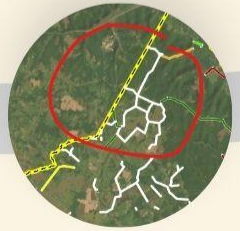
IN-FIELD PROCEDURE

Use Field Map App to select each SEGMENT to survey



Measure width of road at safe pull over spot

Drive entirety of Road *Segment* and evaluate with Key

Assign deductions and score on both paper and iPad

Submit Numeric Score and Color is assigned to road

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DATA FLOW

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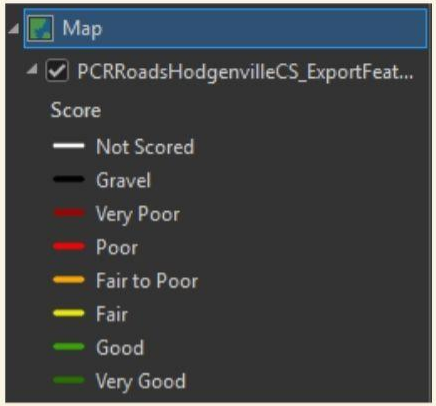
BUILDING ARC GIS SOURCE MAP



- Imagery base
- Edit symbology of corresponding scores to match the respective colors
  - White is unscored, black is gravel, red through green have a corresponding score
- Generate respective labels (very good-very poor) for each color and score

Symbol	Upper value	Label
	≤ -1	Not Scored
	≤ 0	Gravel
	≤ 40	Very Poor
	≤ 55	Poor
	≤ 65	Fair to Poor
	≤ 75	Fair
	≤ 90	Good
	≤ 100	Very Good

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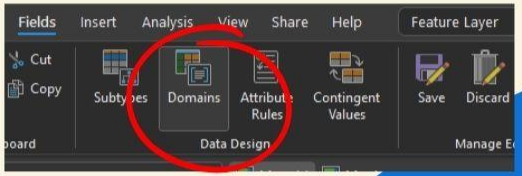
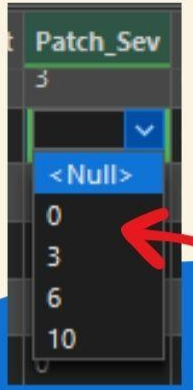
BUILDING ARC GIS SOURCE MAP

- The Dropdown Domains are what allows each category have preexisting options
  - These must be created in a Geodatabase
- Give drop down domain options for severity and extent to match the key for corresponding numbers

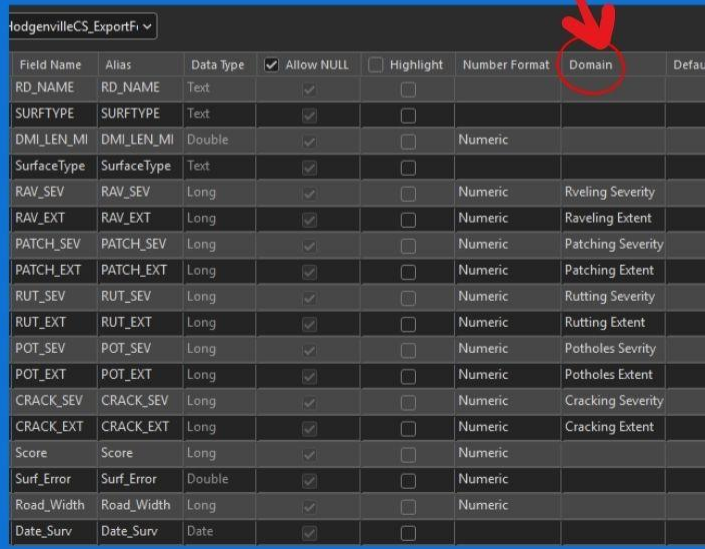
- Allow for extra Comments and Surface Errors as text fields





Link to Full Methodolgy and Tutorial for Creating the field map

SCORE	Surface	Surf_Error	Road_Width	DateSurv	Shape__Length *	Comments
68	Gravel	Is asphalt	16	6/17/2025 12:53:16.455 PM	302.050408	<Null>
84	Gravel	Is asphalt	12	6/18/2025 4:20:53.469 PM	39.709946	<Null>
84	Gravel	Is asphalt	12	6/18/2025 4:20:53.469 PM	11.937845	<Null>
84	Gravel	Is asphalt	12	6/18/2025 4:20:53.469 PM	971.498416	<Null>
0	Gravel	Partial asphalt	11	4/15/2025 12:51:11.223 PM	1417.453627	Is partially asphalt nea...
78	Asphalt		20	4/15/2025 1:17:35.064 PM	64.595384	<Null>



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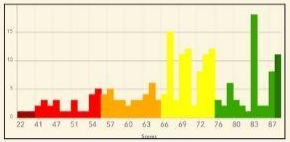
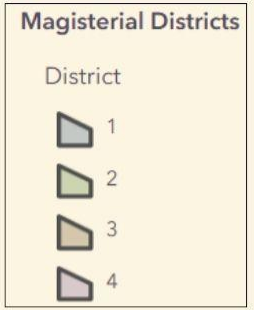
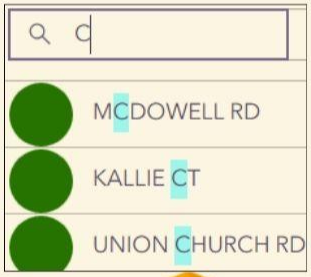
FINAL PRODUCT: INTERACTIVE DASHBOARD

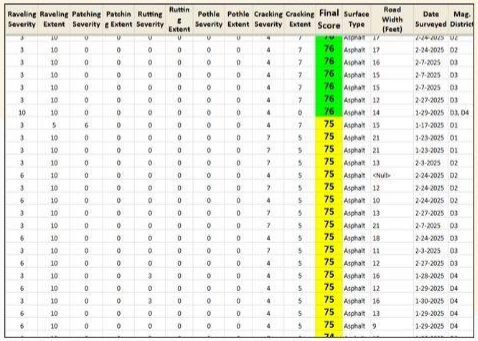
ELEMENTS

- Aerial Imagery
- Downloadable Spreadsheet
- Color Coding
- Magisterial Districts
- Elements change based on Zoom
- Map Legend
- Chart of most common scores
- Search feature



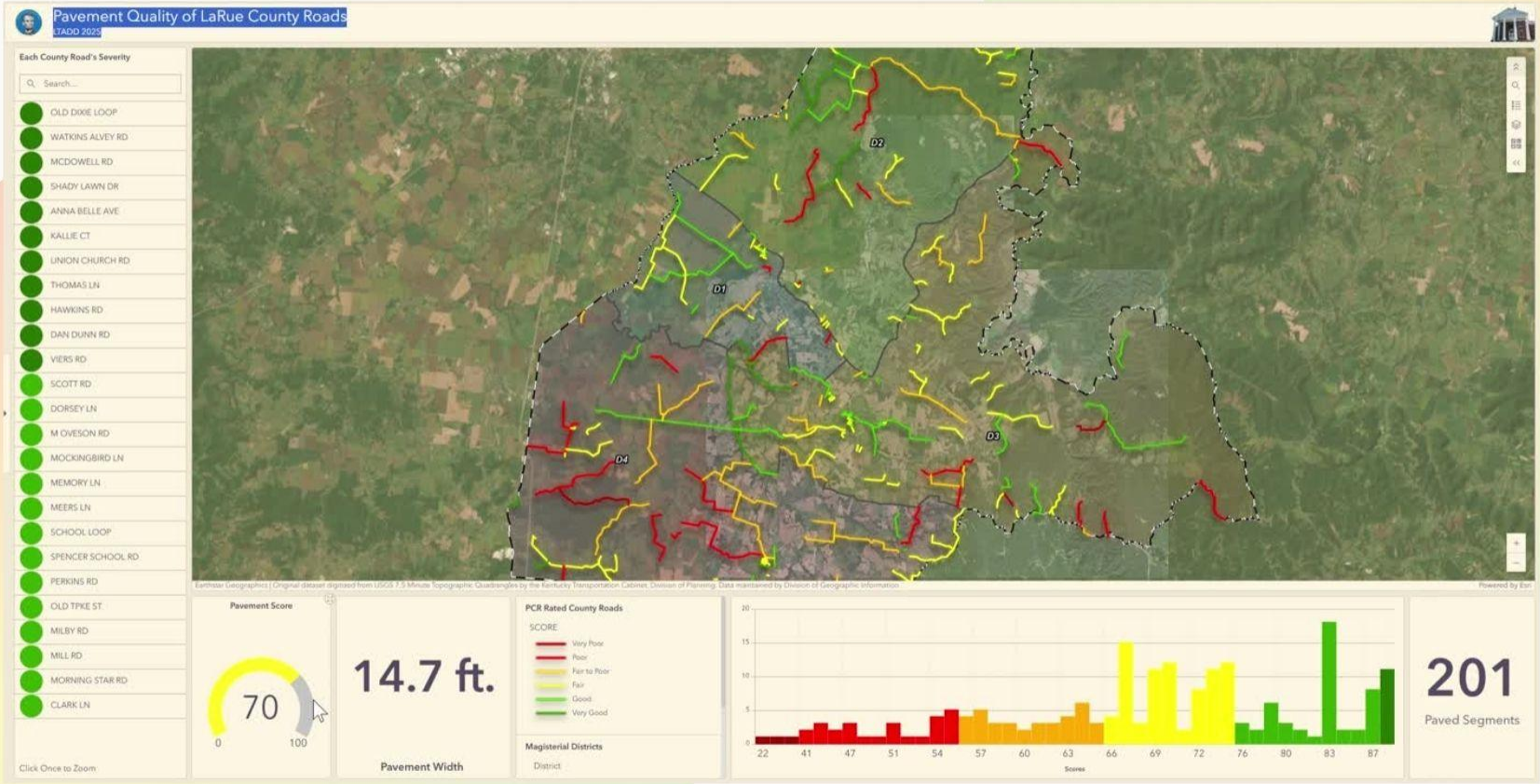




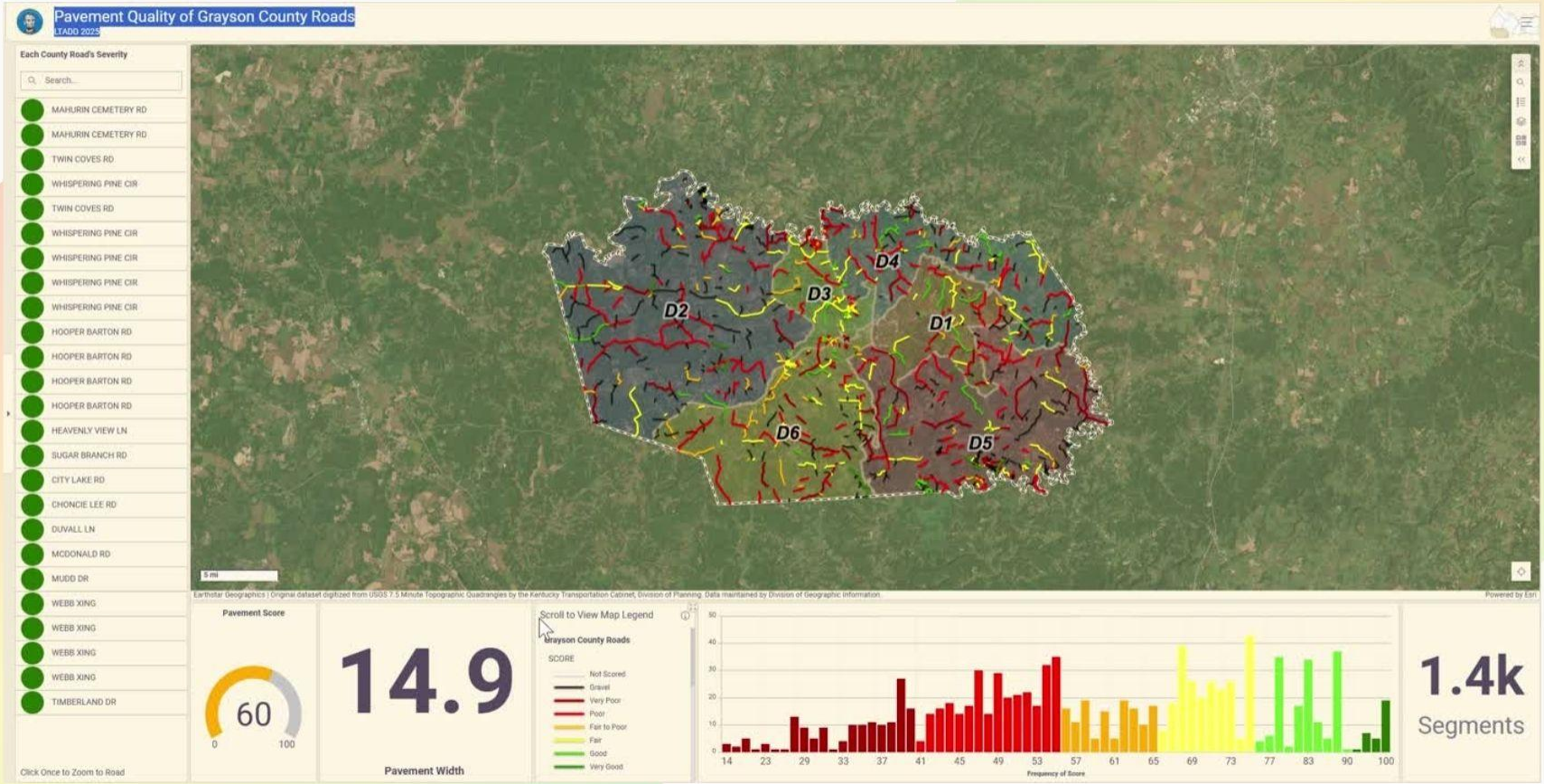


Raveling Severity	Raveling Extent	Patching Severity	Patchin g Extent	Rutting Severity	Ruttin g Extent	Pothle Severity	Pothle Extent	Cracking Severity	Cracking Extent	Final Score	Surface Type	Road Width (Feet)	Date Surveyed	Mag. District
3	10	0	0	0	0	0	0	4	7	76	Asphalt	17	2-24-2025	D2
3	10	0	0	0	0	0	0	4	7	76	Asphalt	17	2-24-2025	D2
3	10	0	0	0	0	0	0	4	7	76	Asphalt	16	2-7-2025	D3
3	10	0	0	0	0	0	0	4	7	76	Asphalt	15	2-7-2025	D3
3	10	0	0	0	0	0	0	4	7	76	Asphalt	15	2-7-2025	D3
3	10	0	0	0	0	0	0	4	7	76	Asphalt	12	2-27-2025	D3
10	10	0	0	0	0	0	0	4	0	76	Asphalt	14	1-29-2025	D3, D4
3	5	6	0	0	0	0	0	4	7	75	Asphalt	15	1-17-2025	D1
3	10	0	0	0	0	0	0	7	5	75	Asphalt	21	1-23-2025	D1
3	10	0	0	0	0	0	0	7	5	75	Asphalt	21	1-23-2025	D1
3	10	0	0	0	0	0	0	7	5	75	Asphalt	13	2-3-2025	D2
6	10	0	0	0	0	0	0	4	5	75	Asphalt	<Null>	2-24-2025	D2
3	10	0	0	0	0	0	0	7	5	75	Asphalt	12	2-24-2025	D2
6	10	0	0	0	0	0	0	4	5	75	Asphalt	10	2-24-2025	D2
3	10	0	0	0	0	0	0	7	5	75	Asphalt	13	2-27-2025	D3
3	10	0	0	0	0	0	0	7	5	75	Asphalt	21	2-7-2025	D3
6	10	0	0	0	0	0	0	4	5	75	Asphalt	18	2-24-2025	D3
3	10	0	0	0	0	0	0	7	5	75	Asphalt	11	2-3-2025	D3
6	10	0	0	0	0	0	0	4	5	75	Asphalt	12	2-27-2025	D3
3	10	0	0	3	0	0	0	4	5	75	Asphalt	16	1-28-2025	D4
6	10	0	0	0	0	0	0	4	5	75	Asphalt	12	1-29-2025	D4
3	10	0	0	3	0	0	0	4	5	75	Asphalt	16	1-30-2025	D4
6	10	0	0	0	0	0	0	4	5	75	Asphalt	13	1-29-2025	D4
6	10	0	0	0	0	0	0	4	5	75	Asphalt	9	1-29-2025	D4

LARUE COUNTY DASHBOARD



GRAYSON COUNTY DASHBOARD



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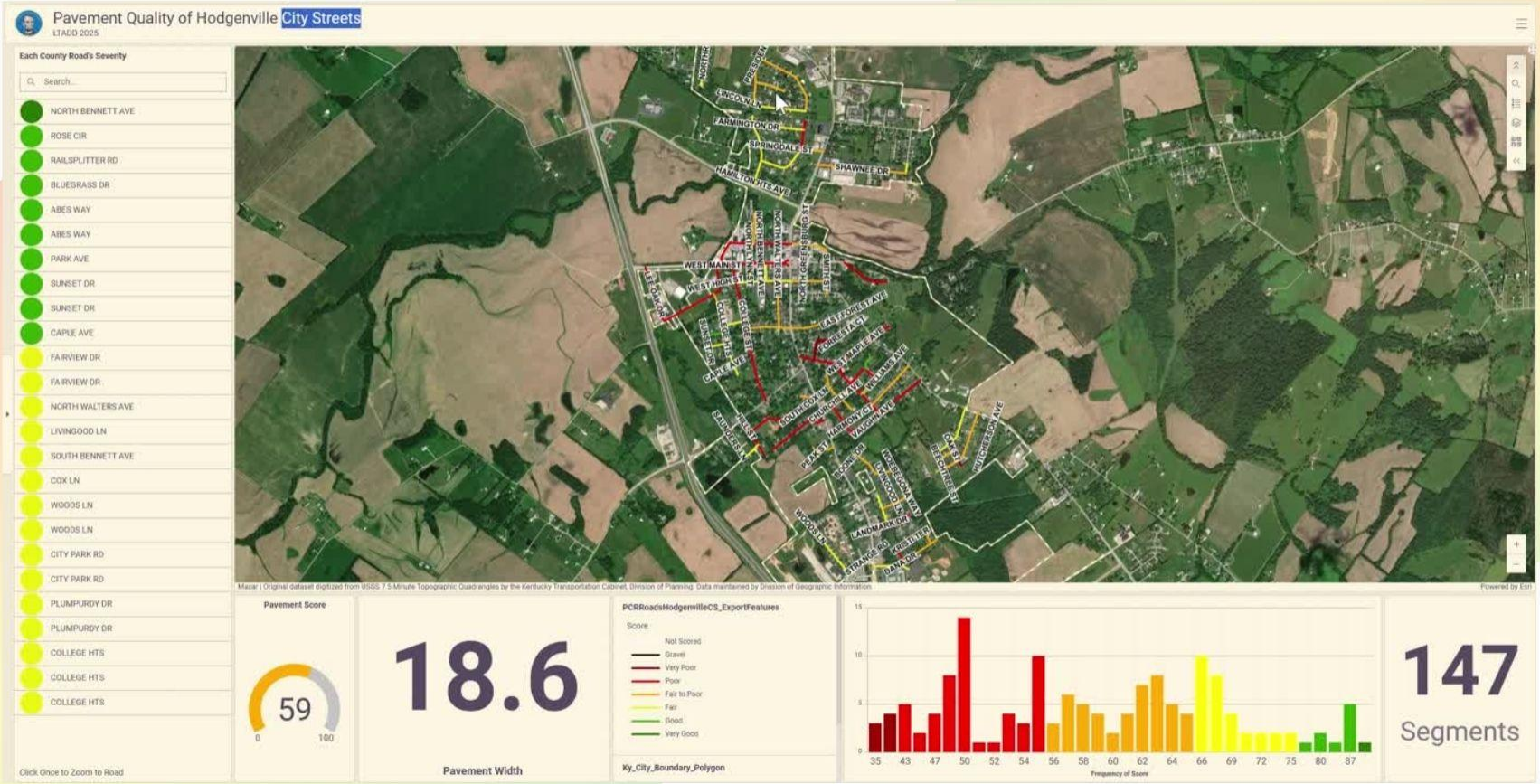
CITY OF HODGENVILLE DASHBOARD



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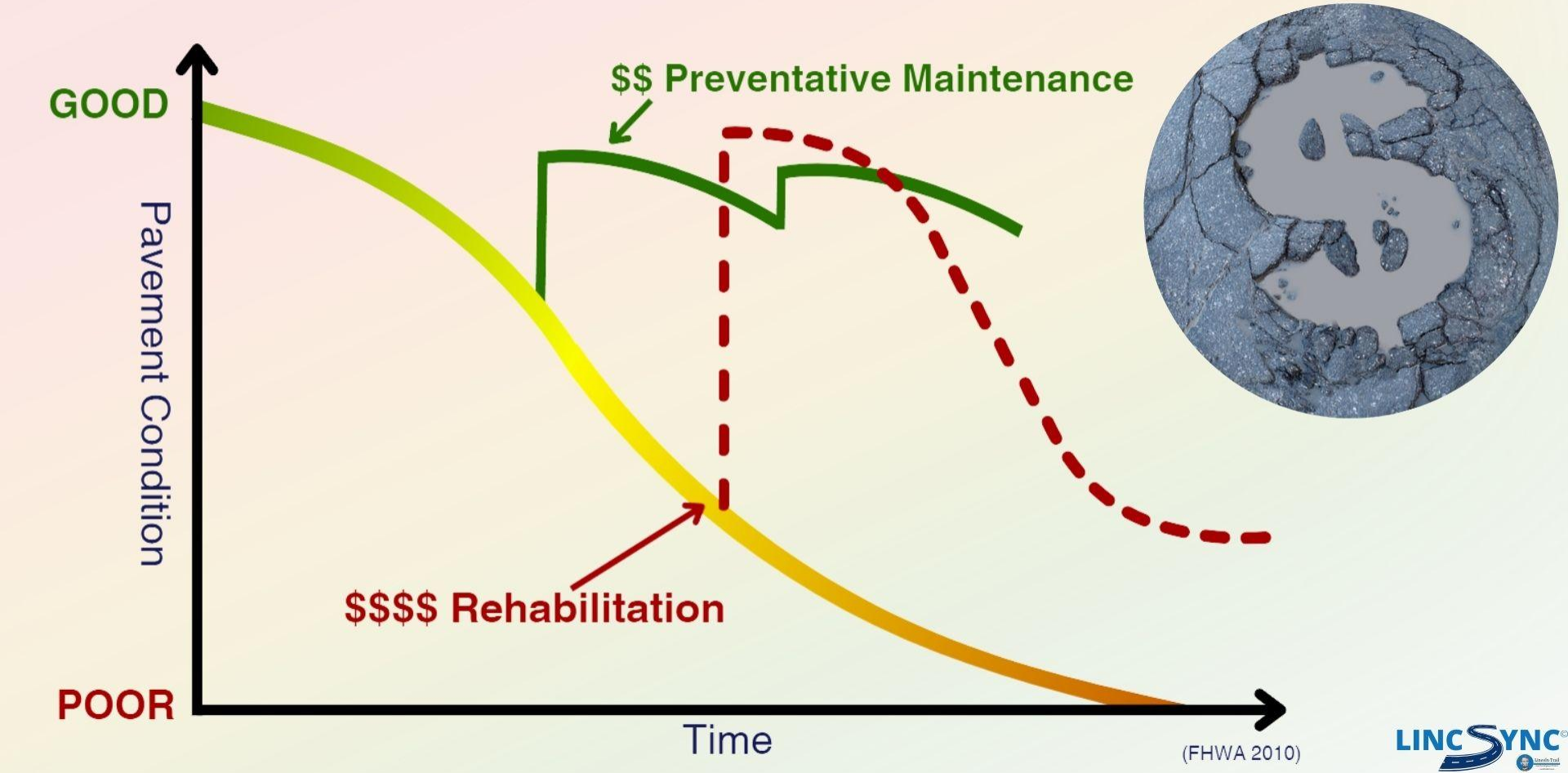
PREVENTATIVE MAINTENANCE



LINCSYNC

MOVING FORWARD

Snow/Ice and Flooding Data Collection

More accurate information than the KYTC database

Evaluate Signage and Sign Refelectivity

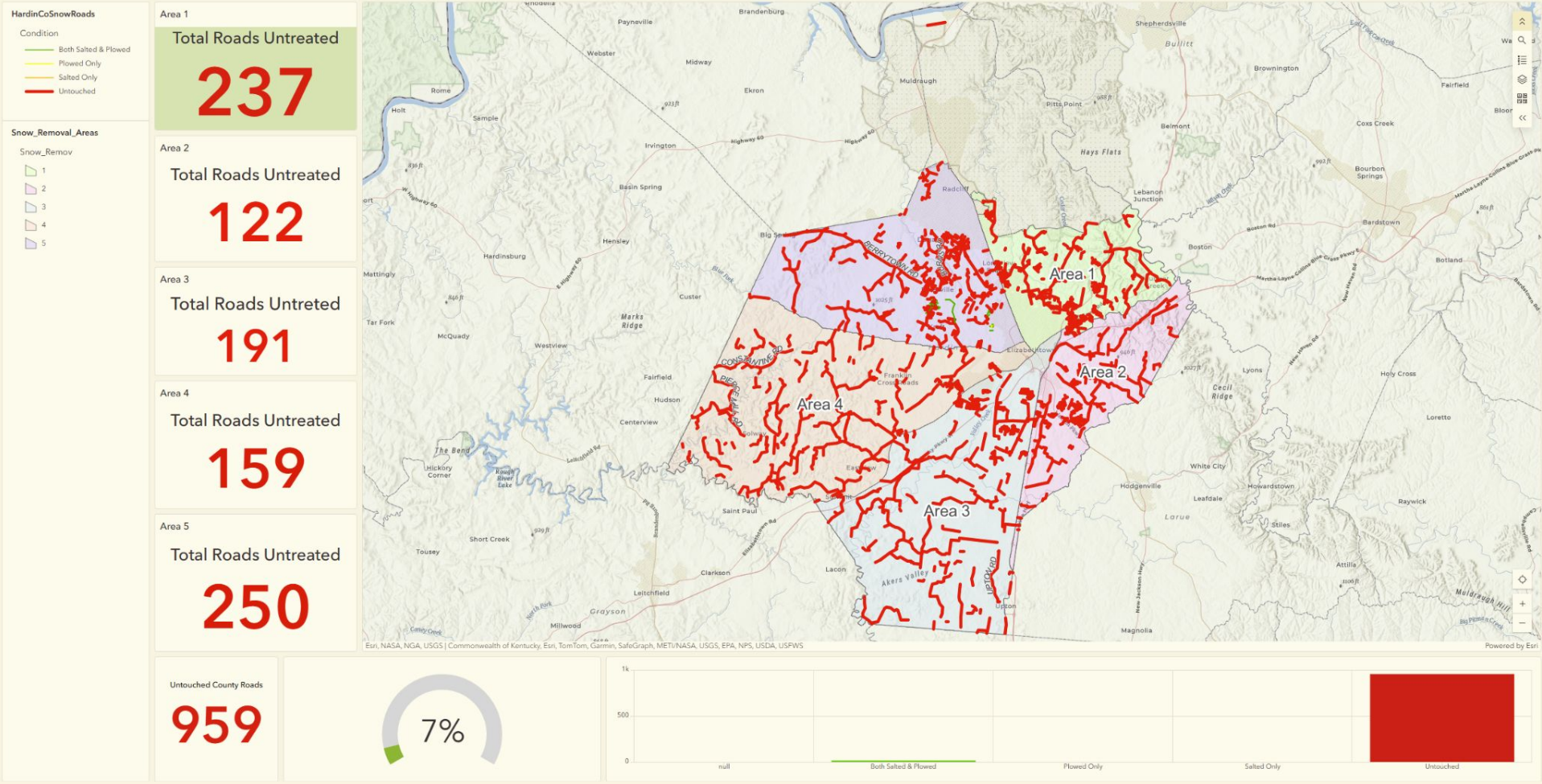
Develop a universal *preventative* maintenance strategy

Only needs to be done every 3-5 years

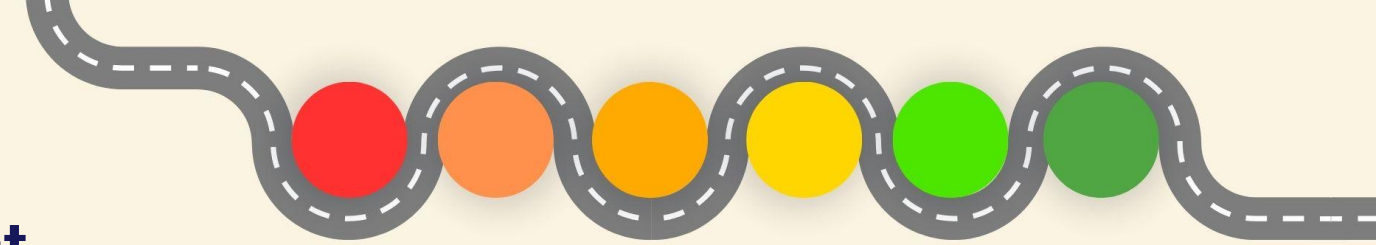
Aids in Emergency Management by having baseline of road conditons

Methodology can be adapted for projects statewide

IN-PROGRESS SNOW REMOVAL DASHBOARD



QUICK SURVEY:

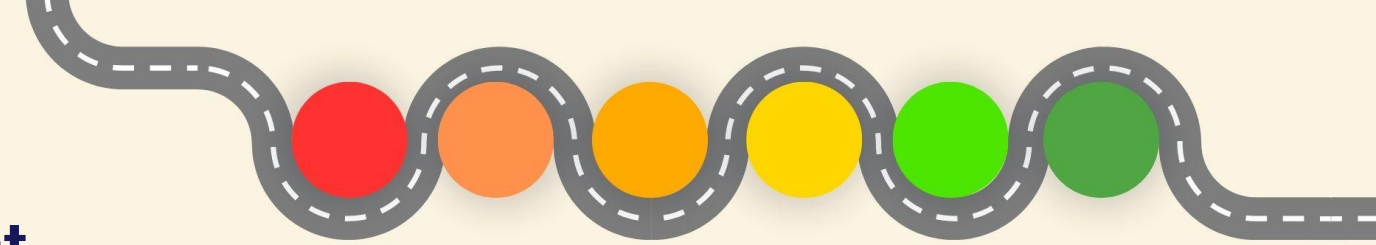


Paste in the Chat-

How do you typically select roads for repaving?

A. Visual inspection without scoring
B. Request from the public
C. Spread the paving equally across the magistrate districts
D. Data driven process using a scoring system

QUICK SURVEY:

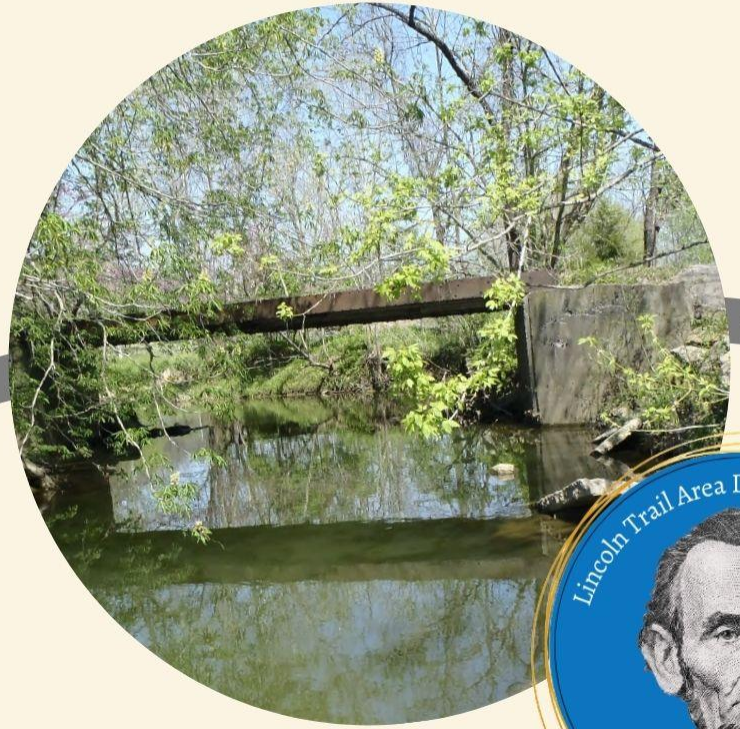


Paste in the Chat-

What *Preventative Maintenance* Strategies might you currently use?

A. Crack Sealing
B. Chip Seals/Fog Seals
C. None

COUNTY-CITY BRIDGE IMPROVEMENT PROGRAM (CCBIP)



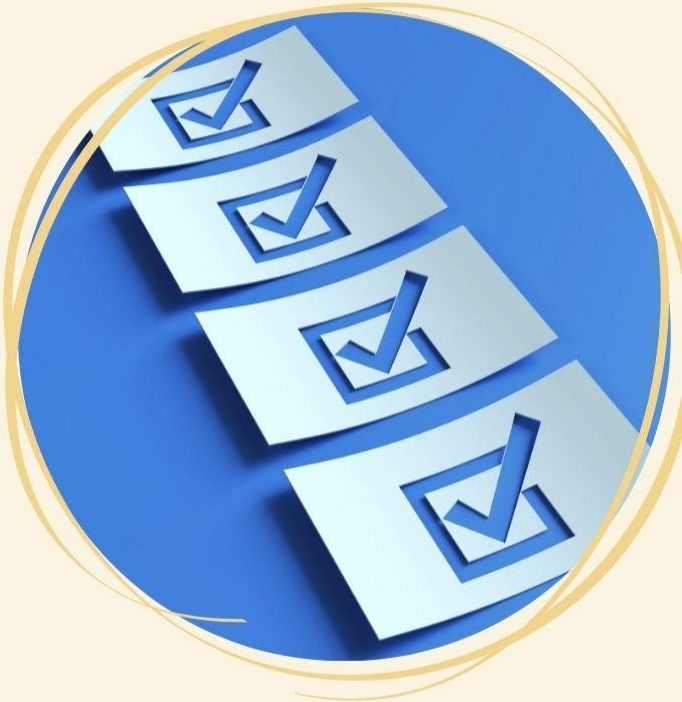
Lincoln Trail Area Development District

est. 1968

CHARLIE ALLEN

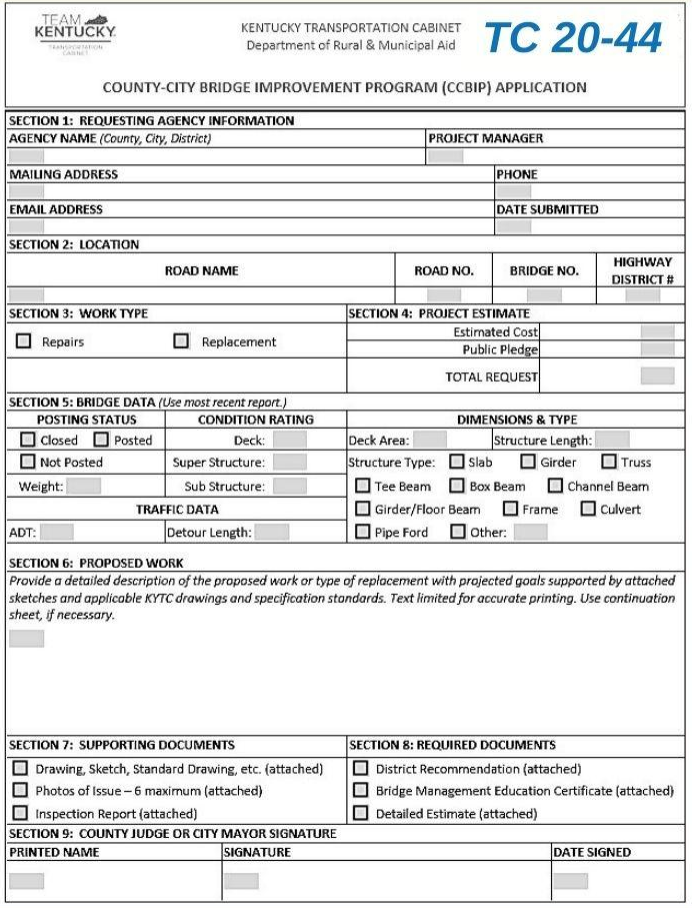
APPLICATION PROCESS

- Some officials feel **overwhelmed** by the process.
- Estimates must be detailed and based on KYTC Average Unit Bid **Prices**.
- The proposed work requires **engineering knowledge** to complete accurately.
  - Knowledge of the **KYTC bridge reports**
  - **CAD** standard drawings
  - Engineering **design** requirements.



APPLICATION REQUIREMENTS

- Complete **TC 20-44** Application
- Letter of **Recommendation**: KYTC District Bridge Engineer
- Completion of **Local Bridges 101**
  - Judge/Executive/Mayor and Road Supervisor/Public Works Director
- Completion of **Local Bridges 102**
  - County/City Engineer/Road Supervisor/Public Works Director
- **Sketch** of Proposed Repairs/Replacement
- Detailed **Cost Estimate**



TEAM KENTUCKY TRANSPORTATION CABINET

KENTUCKY TRANSPORTATION CABINET
Department of Rural & Municipal Aid

TC 20-44

COUNTY-CITY BRIDGE IMPROVEMENT PROGRAM (CCBIP) APPLICATION

SECTION 1: REQUESTING AGENCY INFORMATION

AGENCY NAME *(County, City, District)*	PROJECT MANAGER
MAILING ADDRESS	**PHONE**
EMAIL ADDRESS	**DATE SUBMITTED**

SECTION 2: LOCATION

ROAD NAME	ROAD NO.	BRIDGE NO.	HIGHWAY DISTRICT #

SECTION 3: WORK TYPE

☐ Repairs ☐ Replacement

SECTION 4: PROJECT ESTIMATE

Estimated Cost	
Public Pledge	
TOTAL REQUEST	

SECTION 5: BRIDGE DATA *(Use most recent report.)*

POSTING STATUS	CONDITION RATING	DIMENSIONS & TYPE
☐ Closed ☐ Posted	Deck:	Deck Area: Structure Length:
☐ Not Posted	Super Structure:	Structure Type: ☐ Slab ☐ Girder ☐ Truss
Weight:	Sub Structure:	☐ Tee Beam ☐ Box Beam ☐ Channel Beam
TRAFFIC DATA		☐ Girder/Floor Beam ☐ Frame ☐ Culvert
ADT:	Detour Length:	☐ Pipe Ford ☐ Other:

SECTION 6: PROPOSED WORK

Provide a detailed description of the proposed work or type of replacement with projected goals supported by attached sketches and applicable KYTC drawings and specification standards. Text limited for accurate printing. Use continuation sheet, if necessary.

SECTION 7: SUPPORTING DOCUMENTS	SECTION 8: REQUIRED DOCUMENTS
☐ Drawing, Sketch, Standard Drawing, etc. (attached)	☐ District Recommendation (attached)
☐ Photos of Issue – 6 maximum (attached)	☐ Bridge Management Education Certificate (attached)
☐ Inspection Report (attached)	☐ Detailed Estimate (attached)

SECTION 9: COUNTY JUDGE OR CITY MAYOR SIGNATURE

PRINTED NAME	SIGNATURE	DATE SIGNED

EXAMPLE REPORT

KENTUCKY TRANSPORTATION CABINET

Bridge Inspection Report

078C00042N
Inspector: Anthony Wakefield Entered
by: AWAKEFIELD 06/11/2024 Standard
(24 months)

TEAM KENTUCKY TRANSPORTATION CABINET

KENTUCKY TRANSPORTATION CABINET
Department of Rural & Municipal Aid

TC 20-44
Rev. 06/2025
Page 1 of 1

COUNTY-CITY BRIDGE IMPROVEMENT PROGRAM (CCBIP) APPLICATION

SECTION 1: REQUESTING AGENCY INFORMATION

AGENCY NAME *(County, City, District)*	PROJECT MANAGER
Marion County Government	Judge David Daugherty
MAILING ADDRESS	**PHONE**
223 North Spalding Avenue, Lebanon, KY 40033	270-692-3451
EMAIL ADDRESS	**DATE SUBMITTED**
david.daugherty@marioncountyky.gov	8/12/2025

SECTION 2: LOCATION

ROAD NAME	ROAD NO.	BRIDGE NO.	HIGHWAY DISTRICT #
Medlock Creek Road	CR 1141	078C00042N	4

SECTION 3: WORK TYPE

☐ Repairs ☒ Replacement

SECTION 4: PROJECT ESTIMATE

Estimated Cost	$403,185.00
Public Pledge	$10,000.00
TOTAL REQUEST	$393,185.00

SECTION 5: BRIDGE DATA *(Use most recent report.)*

POSTING STATUS	CONDITION RATING	DIMENSIONS & TYPE
☐ Closed ☐ Posted	Deck: 6	Deck Area: 605 SF — Structure Length: 40.0'
☒ Not Posted	Super Structure: 5	Structure Type: ☐ Slab ☒ Girder ☐ Truss
Weight:	Sub Structure: 4	☐ Tee Beam ☐ Box Beam ☐ Channel Beam
TRAFFIC DATA		☐ Girder/Floor Beam ☐ Frame ☐ Culvert
ADT: 116	Detour Length: 1.86 miles	☐ Pipe Ford ☐ Other:

SECTION 6: PROPOSED WORK

Provide a detailed description of the proposed work or type of replacement with projected goals supported by attached sketches and applicable KYTC drawings and specification standards. Text limited for accurate printing. Use continuation sheet, if necessary.

The recommendation from KYTC is for a complete bridge replacement due to extensive spalling at bearing areas and wings of abutments, moderate cracking on abutment 1, moderate to extesnive cracking on abutment 3, moderate rust in webs and bearing areas of beams and girders and minor to moderate drift at pier 2. Construct new abutments to support a 20' wide precast box beam bridge that is 44' in length with a 45 degree skew. Assume a concrete box beam CB17 with standard integral barrier curb and no guardrail. KYTC STD DRAWINGS: BDP-001, BDP-002, BDP-003, BDP-004, BDP-007, BSA-020, SEPIA-058, BBP-003, RPM-100

SECTION 7: SUPPORTING DOCUMENTS

- ☒ Drawing, Sketch, Standard Drawing, etc. (attached)
- ☒ Photos of Issue – 6 maximum (attached)
- ☒ Inspection Report (attached)
- ☒ Rock Elevation Present on Drawing (Full Replacement ONLY)

SECTION 8: REQUIRED DOCUMENTS

- ☒ District Letter of Concurrence (attached)
- ☒ Bridge Management Education Certificate (attached)
- ☒ Detailed Estimate (attached)

SECTION 9: COUNTY JUDGE OR CITY MAYOR SIGNATURE

PRINTED NAME	SIGNATURE	DATE SIGNED
David Daugherty	David Daugherty	8/18/2025

IDENTIFICATION

Structure Num (8):	078C00042N
NBI Number	078C00042N
Structure Name:	
Location (9):	0.7 MI SE OF JCT KY 1157
Carries (7):	MEDLOCK CRK RD
Type of Service (42A):	1 Highway
Feature Crossed (6):	MEDLOCK CREEK
Type of Service (42B):	5 Waterway
Placecode (4):	Not Applicable
County (3):	Marion (078)
State (1):	21 Kentucky
Admin Area:	Inventory
District:	District 4
Latitude (16):	37° 28' 17"
Longitude (17):	85° 11' 48"
Owner (22):	County Hwy Agency
Maint. Resp. (21):	County Hwy Agency
Year Built (27):	1960
Year Recon (106):	
Border State(98A):	Not Applicable (P)
Border Number (99):	
% Responsibility (98B):	

Poor **Heath Index:** 71.33

SubStd: No **SubStd Reason:** Not Sub-Standa

Inspection Type	Freq (92)	Last Insp (93)	Next Insp
Routine	24	6/11/2024	6/11/2026
Element	24	6/11/2024	6/11/2026
Fracture Critical (A)		1/1/1901	1/1/1901
Underwater (B)		1/1/1901	1/1/1901
Special Insp (C)		1/1/1901	1/1/1901

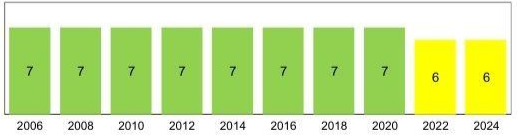
LOAD RATING AND POSTING

Posting Status(41):	A Open, no restriction 5
Posting (70):	At/Above Legal Loads
Signs Posted Cardinal:	No
Signs Posted Non-Cardinal:	No
Recmd Date:	**Posted Date:**

Required Postings (Tons.)	Field Postings (Tons.)
Gross: Truck	**Gross: Truck**
Type 1: Truck	**Type 1: Truck**
Type 2: Truck	**Type 2: Truck**
Type 3: Truck	**Type 3: Truck**
Type 4: SUV	**Type 4: SUV**
5: SUV 6:	**5: SUV 6:**
SUV 7:	**SUV 7:**
EV Single Axle:	EV Single Axle:
EV Tadem Axle:	EV Tadem Axle:
EV Gross:	EV Gross:

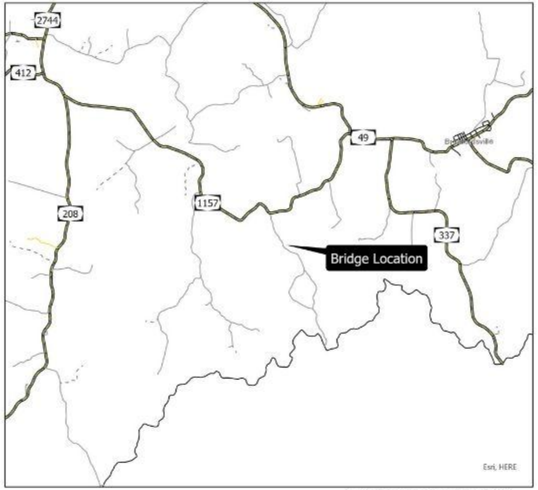
DECK GEOMETRY

Deck Geometry (68):	2 Intolerable - Replace
Deck Area:	604.00 ft²
Deck Type (107):	1 Concrete-Cast-in-Place
Wearing Surface (108A):	6 Bituminous
Membrane (108B):	0 None
Deck Protection (108C):	None
Approach Roadway width (32):	11.15 ft.
Width Curb to Curb (51):	14.11 ft.
O. to O. Width (52):	15.10 ft.
Curb / Sidewalk Width L (50A):	0.00 ft.
Curb / Sidewalk Width R (50B):	0.00 ft.
Median (33):	0 No median



DECK CONDITION

Deck Rating (58):	6 Satisfactory
Bridge Rail (36A):	0 Substandard
Transition (36B):	0 Substandard
Approach Rail (36C):	0 Substandard
Approach Rail Ends (36D):	0 Substandard



1 inch equals 5,280 feet

Medlock Creek Rd Bridge Project

Bridge Replacement Medlock Creek

Marion County Fiscal Court
223 North Spalding Ave Lebanon, KY 40033

August 13, 2025

REVISION | DATE | ND
DRAWN BY
CHECKED BY
APPROVED BY

Cover Page

Medlock Creek Rd at Medlock Creek

LINCOLN TRAIL AREA DEVELOPMENT DISTRICT
Engineering Department

Medlock Creek

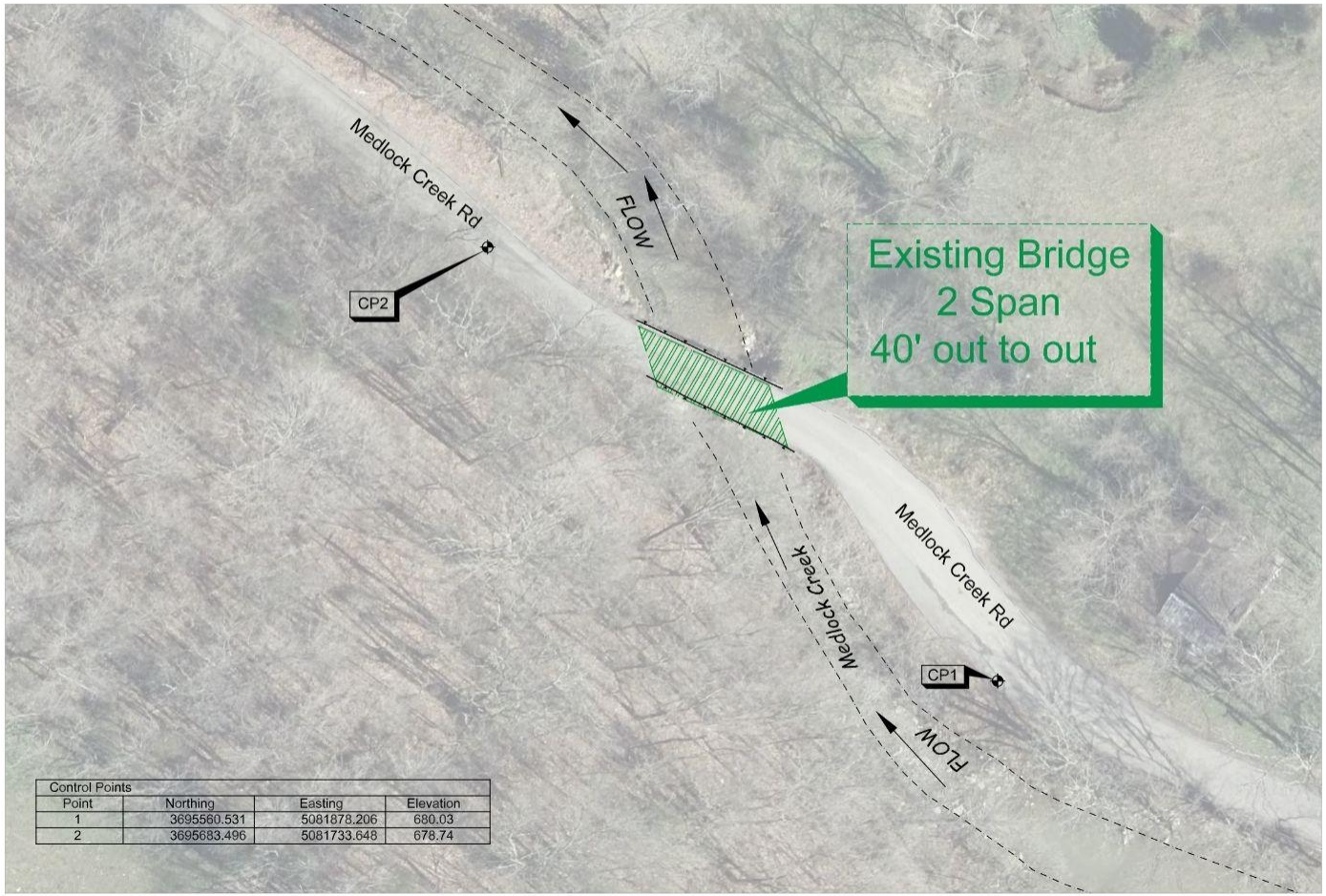
DATE: 8/13/2025
SHEET: 1 of 5
JOB#:
SCALE

EXAMPLE REPORT

KENTUCKY TRANSPORTATION CABINET

Bridge Inspection Report

078C00042N
Inspector: Anthony Wakefield Entered by: AWAKEFIELD 06/11/2024 Standard (24 months)



Control Points			
Point	Northing	Easting	Elevation
1	3695560.531	5081878.206	680.03
2	3695683.496	5081733.648	678.74

	DATE	REVISION
DRAWN BY ND		
CHECKED BY		
APPROVED BY		

Existing Bridge View

Medlock Creek Rd at Medlock Creek

LENCOM TRAIL AREA DEVELOPMENT DISTRICT
Engineering Department

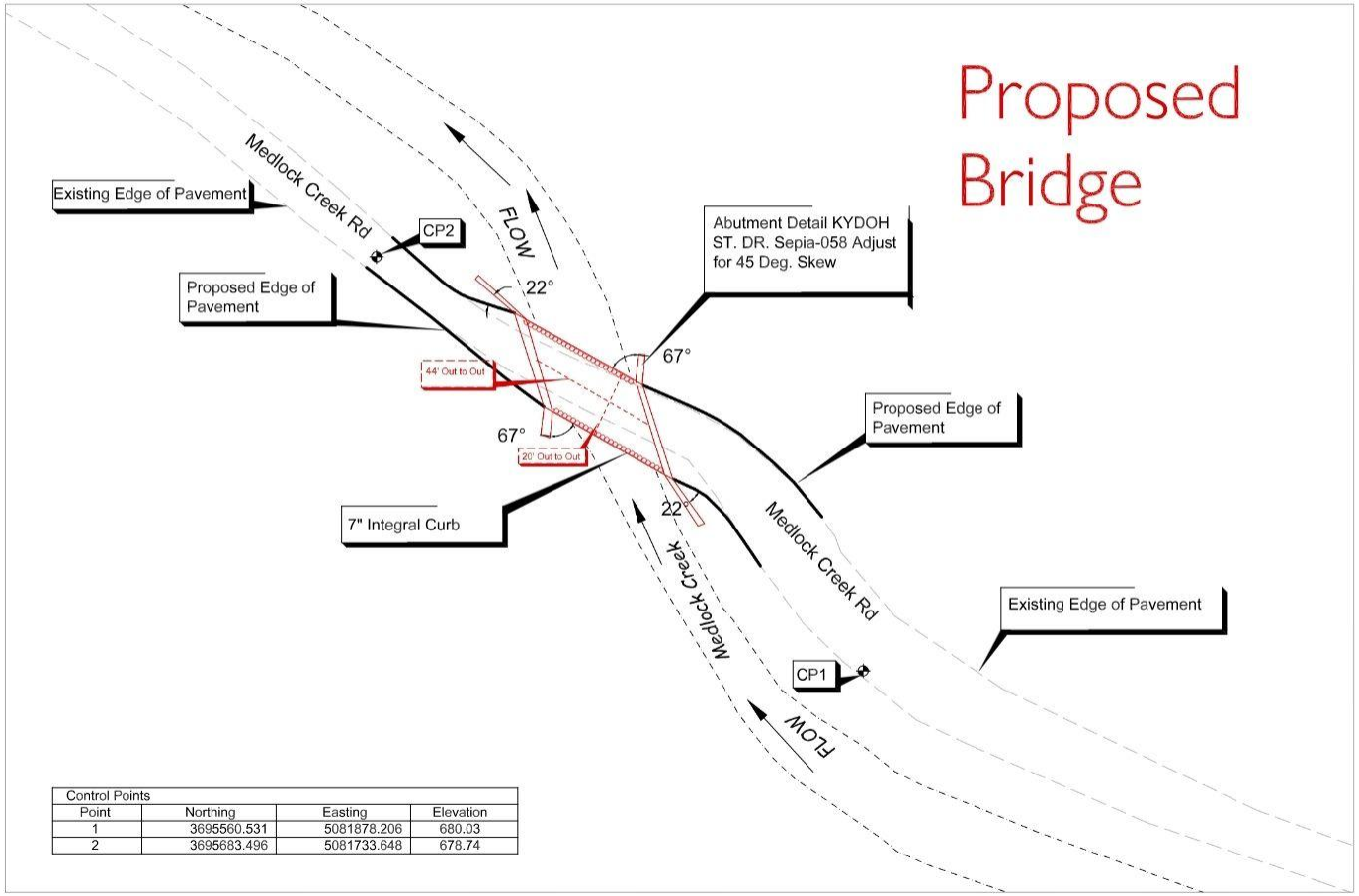
JOB#: Medlock Creek
DATE: 8/13/2025
SCALE
SHEET: 3 of 5

EXAMPLE REPORT

KENTUCKY TRANSPORTATION CABINET

Bridge Inspection Report

078C00042N
Inspector: Anthony Wakefield Entered by: AWAKEFIELD 06/11/2024 Standard (24 months)



Control Points			
Point	Northing	Easting	Elevation
1	3695560.531	5081878.206	680.03
2	3695683.496	5081733.648	678.74

DRAWN BY ND
CHECKED BY
APPROVED BY
DATE
REVISION

Bridge Replacement with Intergrated Curb Layout

Medlock Creek Rd at Medlock Creek

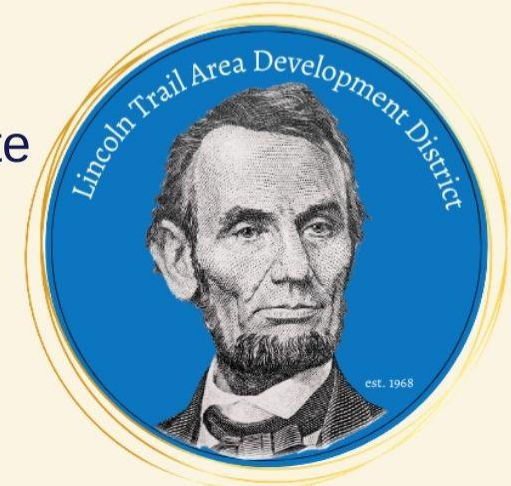
LINCOLN TRAIL AREA DEVELOPMENT DISTRICT
Engineering Department

DATE: 9/13/2025
SHEET: 4 of 5

JOB#: Medlock Creek
SCALE

WHY LTADD?

- Engineer with over **27 years experience** in State & Local Government.
- Successful **track record** completing the grant application.
- **Cost** to complete the application is **minimal** compared to the overall cost of the bridge.
- **CAD** and **GIS** services provided as needed to create a successful grant package.
- The engineer can provide project development and inspections **after** the CCBIP grant is awarded.



2025 LTADD County/City Bridge Improvement Program

APPLICANT	PROJECT TYPE	PROJECT / ROADWAY	AMOUNT AWARDED
Grayson Co. Fiscal Court	Replace	Buckhorn Rd	$574,417.35
Grayson Co. Fiscal Court	Replace	Fragrant Rd	$143,000.00
LaRue Co. Fiscal Court	Replace	Middle Creek Church Rd	$428,210.00
Marion Co. Fiscal Court	Replace	Medlock Creek Rd	$393,185.00
Washington Co. Fiscal Court	Preservation	Booker Rd	$38,159.73
Washington Co. Fiscal Court	Replace	Haydon Brothers Rd	$871,213.00
Green Co. Fiscal Court	Replace	Liletown Rd	$876,790.00
Green Co. Fiscal Court	Replace	Doc Ward Rd	$456,186.00
Marion Co. Fiscal Court	Replace	Horan Ln	$425,000.00
			$4,206,161.08

Awaiting Funding Decision

Replaced with Emergecy Funds

CCBIP

CCBIP

WHY CCBIP?

- The **80/20** program is much **easier** to obtain
  - However the maximum funding amount is $80,000.
- A typical county road bridge that is **50 ft** long will cost between **$300,000 and $400,000.**
  - In many cases the county/city will pay around $15,000 for the engineering fees and KYTC pays the remaining portion.
- The program can remove high cost infrastructure items from the local budget which **frees up** money for other expenses.

QUESTIONS?

Contact Us

Charlie Allen: **charlie@ltadd.org**
Ava Oljeski: **ava@ltadd.org**

www.ltadd.org