

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2021-00090
COMMISSION STAFF’S POST HEARING REQUEST FOR INFORMATION

Witness: Brent O’Neill / Krista Citron

1. Refer to Commission’s Staff’s Third Request for Information (Staff’s Third Request), Item 1. Provide a schedule that breaks down by the main that was replaced in QIP1 and will be replaced in QIP2 by vintage and by mile of main replaced.

Response:

The vintage and mileage of mains replaced in QIP1 and proposed in QIP2 are shown below.

Miles of Replaced Material Types - QIP Years 1 and 2						
Decade	Material Type					
	Cast Iron	Asbestos Cement	PVC	Ductile Iron	Galvanized	Other
1881-1890						
1891-1900						
1901-1910	2.0					
1911-1920	0.5					
1921-1930	2.1					
1931-1940	2.2					
1941-1950	2.2	0.21				
1951-1960	1.9	0.65				
1961-1970	5.4					
1971-1980	4.6		0.03			0.07
1981-1990						
1991-2000						
2001-2010						
2011-2019						
Total - QIP 1	6.38	0.29				
Total - QIP 2	14.53	0.57	0.03			0.07
Totals	20.91	0.86	0.03	0.00	0.00	0.07

Unknown Age: 0.26 miles

Total Miles: 22.12

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2021-00090
COMMISSION STAFF'S POST HEARING REQUEST FOR INFORMATION

Witness: **Brent O'Neill / Krista Citron**

2. Refer to Commission Staff's Third Request, Item 3. Identify which Kentucky-American Staff attended each meeting of Lexington-Fayette Urban County Government's Utility Coordinating Committee meeting in 2017, 2018, 2019, 2020, and 2021, and provide copies of the meeting minutes for each of those minutes.

Response:

LFUCG provides the sign-in sheets and meeting minutes for these Utility Coordinating Committee ("UCC") meetings. Copies of all the minutes and sign-in sheets provided to KAW since 2017 are in KAW_R_PSCPHDR_NUM002_061121_Attachment A. For meetings where minutes were not provided, the UCC meeting agenda or PowerPoint presentation is included.

KAW Staff in attendance at each meeting, where known:

March 20, 2017: Brett Collins (Supervisor Operations), Linda Whitt (Clerk Operations).

September 14, 2017: Krista Citron (Engineering Project Manager), Brett Collins, Jarold Jackson (Senior Supervisor Operations), Cole Mitcham (Senior Project Engineer), Jasmine Mungo (Supervisor Operations), Linda Whitt.

November 9, 2017: Sign-in sheet missing; Krista Citron, Cole Mitcham.

February 22, 2018: Krista Citron, Kelly Garvin (Clerk Operations), Cole Mitcham, Jasmine Mungo, Steven Nash (Supervisor Operations), Austin Thore (Engineering Project Manager).

July 10, 2018: Steven Nash.

November 8, 2018: Krista Citron, Cole Mitcham.

March 14, 2019: Krista Citron, Cole Mitcham, Steven Nash, Nichole Owens (Clerk Operations), RJ Sherman (Superintendent Operations), Tyler Wells (Engineering Technician).

July 24, 2019: Krista Citron, Steven Nash, Austin Thore, Tyler Wells.

November 14, 2019: Krista Citron, Jarold Jackson, Steven Nash, William Oldham (Supervisor Operations), Austin Thore, Tyler Wells.

March 19, 2020: Virtual meeting – no sign-in sheet. Krista Citron, Cole Mitcham, Austin Thore.

July 9, 2020: Virtual meeting – no sign-in sheet. Krista Citron, Cole Mitcham, Austin Thore.

November 12, 2020: Virtual meeting – no sign-in sheet. Krista Citron, Cole Mitcham, Austin Thore.

March 2021: UCCM cancelled.
July 8, 2021: Scheduled.

NOTE: All Black text is the original agenda; all red text is additional minutes taken during the meeting.

Agenda for the UCCM
March 20, 2017 at 1:30

Welcome

- Introduction of new personnel
 - Doug Burton, PE, PMP - Director of Engineering/Urban County Engineer
 - Brian Knapp, PE, PLS - Division of Engineering, Right of Way Management
 - **Dan Kiser, PE will retire on March 31, 2017, Brian to replace him.**

Communication and Coordination

- Utility Coordinating Committee Meeting (UCCM).
 - Quarterly meetings to resume July 27, 2017(January, April, July, October) - **Today's meeting servers at the April meeting. Next three meetings July 27, 2017, October 26, 2017 and January 25, 2018.**
 - Last Thursday of the month / 1:30 / Phoenix Conference Center
 - Add/remove/update contact information for meetings and for general contact –**Scan of sign-in sheet attached.**
 - Registration packets/Utility Master Plans –**Submit both ASAP**
- Permittee's responsibilities
 - Estimate work duration more accurately if longer than the default 21 days – **If it is a capital project that will require more than 21 days, don't overestimate the duration.**
 - Submit revised drawings/emails when work done does not match work listed on original permit. –**whether it is changed in the office or in the field, submit updated information.**
 - Obtain proper permits when working in or along streams as outlined in the document found here: <https://next.lexingtonky.gov/sites/default/files/2016-07/LFUCG%20Permit%20Checklist%20for%20Commercial%20and%20Institutional%20Development.pdf>. This document was prepared for developers, so utility work would fall under a different nationwide permit (#12, not #39), but the requirements are similar.
 - The updated Stormwater Manual (v. 10/1/16) now requires a 50' stream buffer. If work occurs in the buffer, the disrupted area must be stabilized within 24 hours of disturbance.
- New portal/software for Right-of-Way permits input / management. – Live date T.B.D. – **Accela will be the platform used, it is being designed to work with the LFUCG's GIS.**

Restoration issues / requirements

- When work involves valves located in the roadway, the valve shall be raised/replaced to final grade. – **KAWC plans to reinstate a crew to handle this operation; however, they need advanced notice to schedule the work.**
- Final restoration shall produce structurally sound, neat, rectangular patches to the roadway surface.
 - Surface cuts / new guidelines for lateral extent of repairs; New standard drawings.-**Currently in review process, adoption date T.B.D.**
 - **New guidelines may include: diagonal trenching shall receive rectangular restoration.**
 - **It was requested that LFUCG list any special restoration requirements in the permit.**
 - Proper permanent restoration of surface cuts:
 - **2" asphalt surface course (HMA)** to bring to the CURRENT roadway surface, on top of
 - **6" thick concrete cap/bridge** 1' wider than each side of excavated trench
 - **Sealed joints.**
 - Everybody benefits from getting the Final restoration done before winter – **better restoration, no need to revisit and 2 year warranty begins earlier.**
 - Temporary Restorations – when HMA is not readily available
 - 2" asphalt shall consist of cold mix asphalt (KP6, UPM or equivalent)
 - No concrete to the surface, with or without plastic barrier.
 - Within 6 weeks of asphalt plant opening – the cold mix shall be removed and replaced with hot mix asphalt surface course and the joints sealed. – **HMA should be available on 3-27-2017 – please get pending final restorations scheduled.**

Upcoming Proposed Changes - These are still in the discussion phase.

- Code of Ordinances: Chapter 17C – Public Rights of Way
 - Assessing fees – not looking to increase revenue, but intended to: 1) get restoration completed in the allotted time, 2) clear the RW for LFUCG Capital Projects in a timely manner.
 - No change to the current Permit fees (\$100 Installation, \$250 Surface Cut)
 - Starting work without a permit – fee doubled
 - Late submittals of permits for emergency work – fee doubled
 - Extending the permit for work not complete by “end date”:
 - standard fee assessed - when requested by the permittee before expiration of original permit with good reason
 - double the standard fee assessed – when original permit has expired or without good reason
 - Developing standards for resurfacing requirements – Currently interoffice discussions are working to create guidelines. Question: Will the current condition of the pavement be a factor in the resurfacing requirements? Answer: This will be added to the discussion and we will look into how the City of Frankfort is addressing this issue.
 - Utility companies will no longer receive the LFUCG paving list
 - LFUCG wants to create one point of coordination for the Utility Companies.
 - LFUCG will compare the Utility Company Master Plans to the paving List and coordinate with them on an individual basis.
 - Columbia Gas surveys for leaks on roadway on the paving list and repairs them before repaving. Therefore they request to receive the paving list 1 to 3 months before scheduled paving.

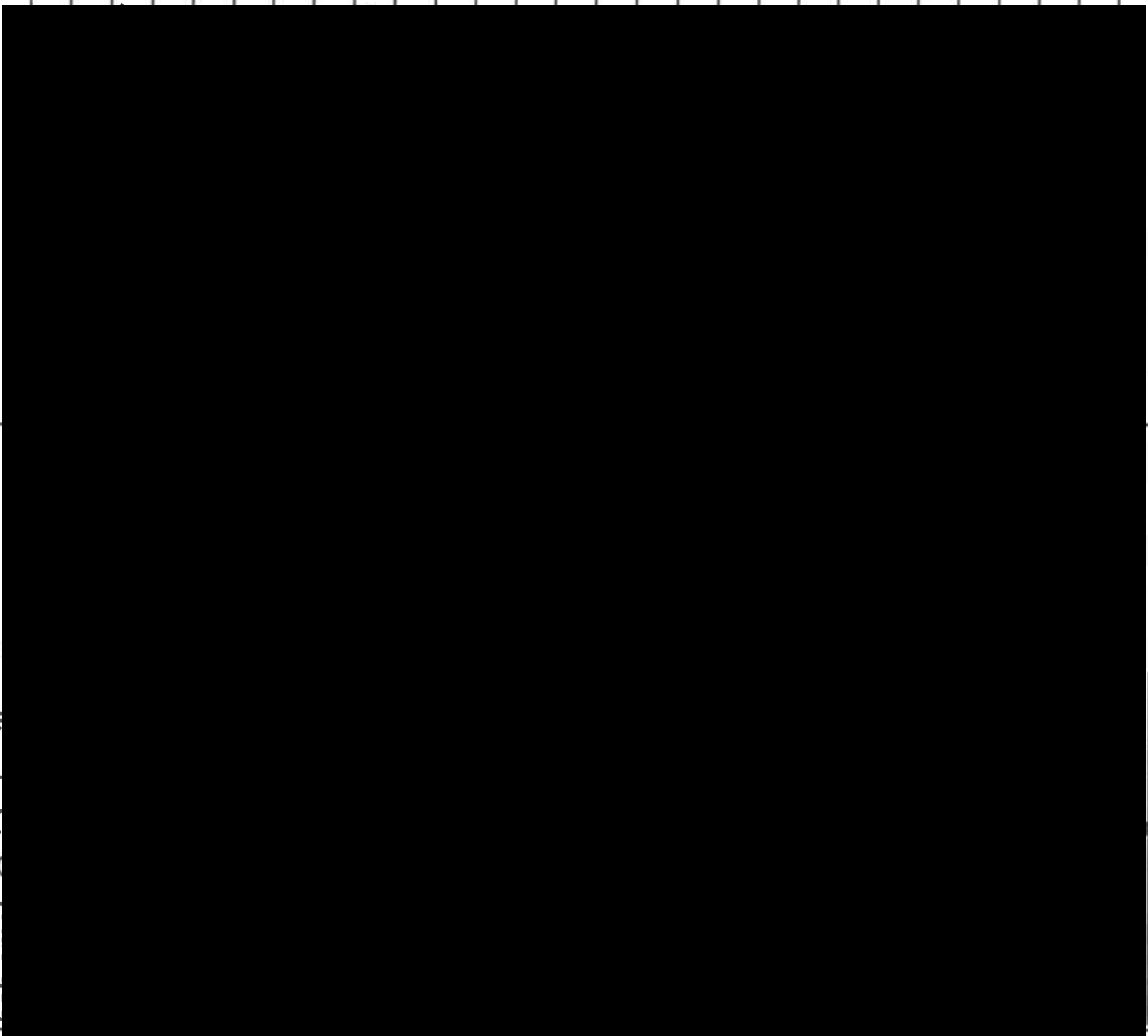
Open Discussion

- It was pointed out that utility poles often have multiple utilities attached to them, and that the owner of the pole does not have authority to remove those lines. Therefore, it was requested that consideration be given to differentiating between permits that don't involve poles (Surface Cuts) and Permits that do include poles, when applying the fees associated with “reissuing the permit”. – Future discussions should include: 1) requiring every attached utility (to the pole) to get an individual permit 2) the pole owner to revise their attachment agreement to better the situation, 3) other ideas will be considered.

**UCCM 3-20-2017
SIGN IN SHEET**

Utility Companies Representatives

PRESENT	NAME	REPRESENTING	EMAIL	PHONE
	Amato	Robert		
✓	Ambrose	Frank		
	Blythe	Phillip		
✓	Botkin	Kay		
	Cavallaro	Carol		
	Chervus	Rodney		
	Clark	Lisa		
	Combs	Rad		
	Conlee	Thomas		
✓	Cooper	James		
	Corbin	Terry		
	Davis	John		
✓	Davis	Sam		
	Frame	Clay		
✓	Harlow	Roy		
	Henson	Jason		
	Jackson	Jarold		
	Johnson	Steve		
✓	Long	Kevin		
	Lonobile	Kim		
✓	Mcdonie	Ralph		
✓	Moran	Rennette		
	Rodemerck	Paul		
	Rosato	Steve		
	Sanders	Ashley		
	Sewell	Mark		
✓	Sizemore	Ronald L		
	Smith	John		
	Waters Jr.	Harold		



LFUCG Representatives

PRESENT	NAME	REPRESENTING	EMAIL	PHONE
✓	Barnett	Debbie	[REDACTED]	[REDACTED]
✓	Burton	Douglas	[REDACTED]	[REDACTED]
	Carey	Jennifer	[REDACTED]	[REDACTED]
✓	Drosick	Stephen	[REDACTED]	[REDACTED]
✓	Feibes	Mark	[REDACTED]	[REDACTED]
	Hicks	Chester	[REDACTED]	[REDACTED]
	Kiser	Daniel	[REDACTED]	[REDACTED]
	Knapp	Brian	[REDACTED]	[REDACTED]
	Martin	Charles	[REDACTED]	[REDACTED]
	May	Vincent	[REDACTED]	[REDACTED]
	Miller	Albert	[REDACTED]	[REDACTED]
✓	Neal	Jeffrey	[REDACTED]	[REDACTED]
	Osborne	William	[REDACTED]	[REDACTED]
	Paulsen	Derek	[REDACTED]	[REDACTED]
	Stevenson	Sharon	[REDACTED]	[REDACTED]
	Wente	Kevin	[REDACTED]	[REDACTED]
	CHARLES	Bob	[REDACTED]	[REDACTED]
	Hayes	Brian	[REDACTED]	[REDACTED]

NOTE: All Black text is the original agenda; all red text is additional minutes taken during the meeting.

The PowerPoint presentation is also included with these meeting minutes as it expands on these agenda items.

Agenda for the UCCM
September 14, 2017 at 10:00

Welcome

- Introduction of personnel

Communication and Coordination

- Utility Coordinating Committee Meeting (UCCM).
 - Tri-yearly meetings to get back on schedule in 2018 (February June and October)
 - The 2017 October Meeting will be moved to November 9, 2017 at 10:00am (confirmed)
- Registration packets will be sent out in January 2018 – to be returned in March.
- Traffic Engineering now requiring RW Permit Number before issuing the Lane Blockage Permit
- Accela Right of Way Management - New portal/software live date TBD
- Utility Companies will continue to receive the LFUCG Paving List

Proposed Changes to: A) Code 17C, B) Standard Drawings and C) Restoration Requirement Policy

- Reason for changes:
 - 1) Get restoration completed in the allotted time = **21 days** default established by PSC for typical spot repair. **Longer durations will be approved on a case by case basis.**
 - 2) Get temporary restoration replaced sooner = less failures
 - 3) Improve communications = reduced return inspections and public complaints
 - 4) Standardize the restoration requirements as much as possible = better roads

A. Code of Ordinances: Chapter 17C – Public Rights of Way

Proposed Changes:

- I. Starting work without a permit (Installation and Surface cut) – fee doubled
 - II. Late submittals of permits for emergency work (Installation and Surface cut) – fee doubled **Emergency work does not mean scheduling emergency, it means and actual emergency.**
 - III. Extending the permit for final restoration not complete by “end date” (Surface cut only) - fee reassessed - each time the permit expires. **If the expiration date falls on a weekend or holiday, the inspection date will be the following workday.**
- Presented to council 8-22-17 – It will become effective immediately on all new permits submitted after the resolution is passed, which could be as soon as October/November. **(Middle October is most likely!!).**

B. Standard Drawings added (approval date TBD)

- I. Standard Drawing 201-3 “Utility Trench Restoration Beneath Existing Paved Roads (section view) **Illustration of our current policy - no change to requirement.**
- II. Standard Drawing 201-4 “Utility Trench Restoration Beneath Existing Paved Roads (plan view) **Illustration of our current/ new policy.**

C. Restoration Requirement Policy

- Final restoration shall produce structurally sound, neat, rectangular patches to the roadway surface. This policy includes:
 - I. No longitudinal joints in a bike lane – resurface entire width of bike lane.
 - II. No longitudinal joints in tire path of a travel lane– resurface to middle or edge of lane
 - III. No small patches of existing pavement to remain between new or new/old patches – remove existing pavement and make one large patch.
 - IV. No small strips of existing pavement to remain between patch and curb.

The construction and restoration all happens under the same permit, which has a total of 21 day default.

The 21 days is calendar day, not work days, this follows PSC guidelines.

ROW will identify any special restoration requirement as early as possible in the permitting/construction process. Standard drawings and current policies should be followed at a minimum. Onsite meetings after excavation has begun will be helpful.

ROW understands implementation of these changes will be a learning process for everyone involved. It will become more efficient after the new software is in place.

ROW strongly encourages the utilities to practice getting the Surface Cut Permits complete in the 21 day window, and adjust their practices as necessary, before these changes take effect.

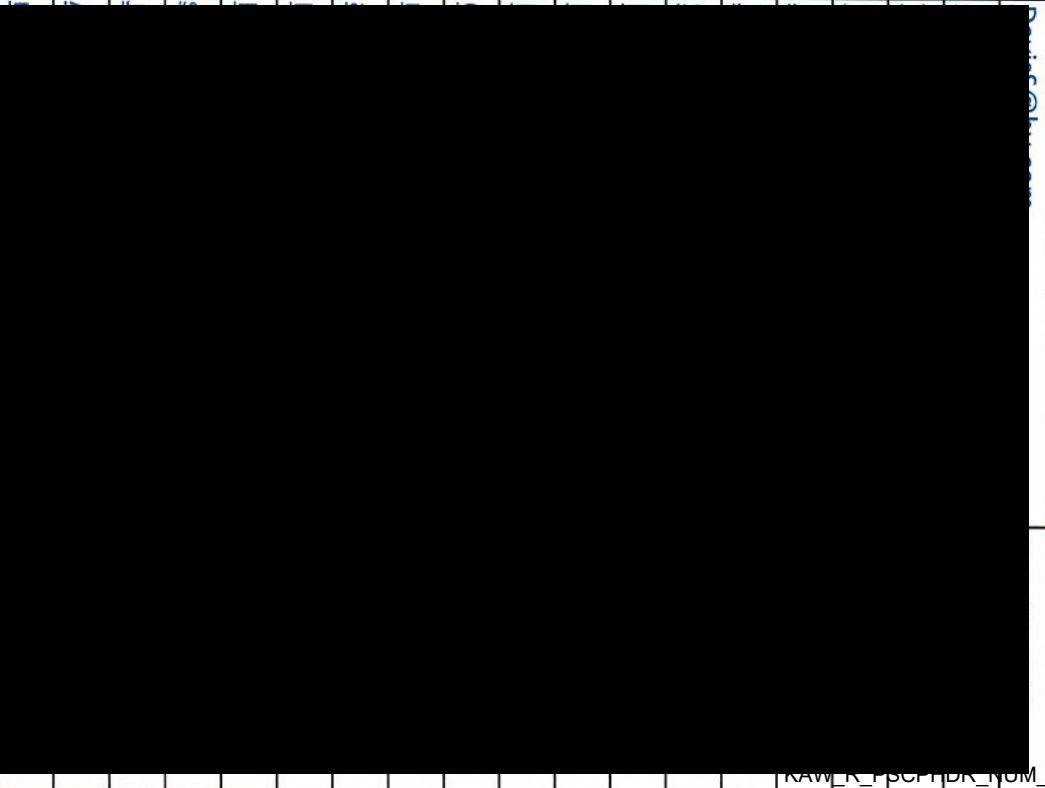
**UCCM 9-14-2017
SIGN IN SHEET**

Utility Companies Representatives

SIGNATURE	NAME		REPRESENTING	EMAIL	PHONE
	Last	First			
	Amato	Robert	City of Nicholasville		
	Ambrose	Frank	AT&T		
	Blythe	Phillip	Clark Energy		
	Botkins	Kay	Columbia Gas of KY		
<i>[Signature]</i>	Brosky	Alex	KY Backhaul		
<i>[Signature]</i>	Cavallaro	Carol	Lighthouse		
<i>[Signature]</i>	Citron	Krista	Kentucky American Water		
	Clark	Lisa	Crown Castle		
<i>[Signature]</i>	Collins	Brett	Kentucky American Water		
	Combs	Rad	Bluegrass Energy		
	Compton	Richard	KU		
	Conlee	Thomas	Delta Gas		
	Cooper	James	Columbia Gas of KY		
	Cooper	Judy	Columbia Gas of KY		
<i>[Signature]</i>	Corbin	Terry	Wild Telecommunications, Inc		
	Davis	John	NE Woodford County Water District		

Utility Companies Representatives

SIGNATURE	NAME		REPRESENTING	EMAIL	PHONE
	Last	First			
	Davis	Sam	NG-KIH		
	Frame	Clay	AT&T		
	Hagan	Tim	Kentucky Wired		
	Harlow	Roy	Intermountain Cable, Inc.		
	Henson	Jason	Windstream		
<i>David Jackson</i>	Jackson	Jarold	Kentucky American Water		
	Johnson	Steve	Windstream		
<i>Kevin Long</i>	Long	Kevin	Kentucky Utilities		
<i>Kim Lonobile</i>	Lonobile	Kim	Lighthouse		
<i>Ralph Mcdonie</i>	Mcdonie	Ralph	Charter		
<i>Cole Mitcham</i>	Mitcham	Cole	Kentucky American Water		
<i>Rennette Moran</i>	Moran	Rennette	Columbia Gas of KY		
	Olson	Adrienne	Lighthouse		
	Prather	Michael	Lighthouse		
	Pressgrove	Jordan	Kentucky Wired		
	Rosato	Steve	Crown Castle		
	Russell	Joseph	Kentucky Utilities		
	Sanders	Ashley	Windstream		
	Sewell	Mark	Level 3		



Utility Companies Representatives

SIGNATURE	NAME		REPRESENTING	EMAIL	PHONE
	Last	First			
	Sharp	Nicholas	Lighttower		
	Sizemore	Ronald L	Charter		
	Smith	John	Lighttower		
	Tilly	Adam	Kentucky American Water		
	Walker	Tom	Columbia Gas of Kentucky		
	Waters Jr.	Harold	Level 3		
	Watts	Thomas	Delta Gas		
<i>Handwritten Signature</i>	Whitt	Linda	Kentucky American Water		
<i>Handwritten Signature</i>	Mungo	Jasmine	Kentucky American Water		
<i>Handwritten Signature</i>	<i>Trinkle</i>	<i>David</i>	<i>Windstream</i>		
<i>Handwritten Signature</i>	<i>MASON</i>	<i>Jeremy</i>	<i>WINDSTREAM</i>		

LFUCG Representatives

SIGNATURE	NAME		REPRESENTING	EMAIL	PHONE
	Last	First			
<i>Debbie K Barnett</i>	Barnett	Debbie	LFUCG - WQ		
<i>[Signature]</i>	Burton	Douglas	LFUCG-ENG		
<i>[Signature]</i>	Chervus	Rodney	LFUCG - WQ		
<i>[Signature]</i>	Drosick	Stephen	LFUCG-ENG-RW		
<i>[Signature]</i>	Feibes	Mark	LFUCG-ENG		
<i>[Signature]</i>	Hayes	Brian	LFUCG-ENG		
<i>[Signature]</i>	Hicks	Chester	LFUCG-EQ&PW		
<i>[Signature]</i>	Killens	Ersula	LFUCG - WQ		
<i>[Signature]</i>	Knapp	Brian	LFUCG-ENG-RW		
<i>[Signature]</i>	Martin	Charles	LFUCG - WQ		
<i>[Signature]</i>	May	Vincent	LFUCG-ENG-RW		
<i>[Signature]</i>	Miller	Albert	LFUCG- S&R		
<i>[Signature]</i>	Neal	Jeffrey	LFUCG Traffic Eng		
<i>[Signature]</i>	Osborne	William	LFUCG - S&R		
<i>[Signature]</i>	Paulsen	Derek	LFUCG - PP&D		
<i>[Signature]</i>	Stevenson	Sharon	LFUCG-ENG-RW		
<i>[Signature]</i>	Wallen	Wanda	LFUCG - WQ		
<i>[Signature]</i>	Wente	Kevin	LFUCG - PP&D		
<i>[Signature]</i>	Wray	Jim	LFUCG-ENG-RW		

[Handwritten signatures and notes]
 Sharon Stover
 Sharon M. Wallen
 Wente
 Wray
 Wallingford
 Darrin
 LFUCG Eng

4717

**UCCM 9-14-2017
SIGN IN SHEET**

SIGNATURE	NAME		REPRESENTING	EMAIL	PHONE
	Last	First			
	Miller	George	LFACG - Eq Div		
S. Elmer Powell			LFACG-7E		

Agenda for the UCCM
November 9, 2017 at 10:00

Welcome

Communication and Coordination

- Utility Coordinating Committee Meeting (UCCM).
 - Tri-yearly meetings to get back on schedule in 2018 (February, June/July and October)
 - Next meeting is February 22, 2018 at 10:00am
- Registration packets will be sent out in January 2018 – to be returned in March.
- Utility Master Plan submittal method
- Traffic Engineering requiring RW Permit Number before issuing the Lane Blockage Permit
- Accela Right of Way Management - New portal/software live date TBD
- December 15, 2017 is potentially the last day to get HMA before winter shut down
- Steel Plates
 - From 11-9-2017 to 4-15-2018 required Email notification to Albert Miller albertm@lexingtonky.gov
 - Notification signs – encouraged
- Staging Areas and Parking Locations
 - Tree Protection

Permitting Process

- “Open Permits” - lists of permits needing final restoration
- Common Problems that prevent permits from being closed (review)
- Recent changes
 - Effective dates
 - Code 17C - October 16, 2017
 - Standard Drawings - September 22, 2017
 - Restoration Requirement Policy - September 22, 2017
 - Results of changes to date
 - Code 17C Changes Summary (review)
- Design Phase Considerations
- Post Design / Preconstruction Phase Considerations

Open Discussion and Questions

NOTE: All black/blue text is the original agenda; all red text is additional minutes taken during the meeting.

Agenda for the UCCM
February 22, 2018 at 10:00

- **Utility Coordinating Committee Meeting (UCCM) schedule**
 - 2018 Tri-yearly meetings (February, June/July and October)
 - Next meeting July 12, 2018 at 10:00am after Capital Project /utility meeting.
 - **May consider reducing to 2 meeting per year if applicable.**
- **Registration packets**
 - Return by March 1st
 - Utility Master Plan submittal method – **List/ table format is acceptable, be sure to include Company name and time period covered.**
- **Steel Plates – keep notifications going until Tax day.**
 - From 11-9-2017 to 4-15-2018 required Email notification to:
 - Albert Miller albertm@lexingtonky.gov;
 - Rob Allen rallen@lexingtonky.gov;
 - Bill Osborne wosborne@lexingtonky.gov
 - Notification signs – encouraged
- **Lane Closure Permits – Traffic Engineering - Steve Parker, PE**
 - <https://www.lexingtonky.gov/lane-closure-permit>
 - **3 day turnaround for review is the policy, but often is returned much faster.**
 - **A rule of thumb** for when a MOT sketch should be submitted with the application isif the street has striping, then yes a MOT sketch is required.
 - **Consider the weather forecast when selecting closure dates.**
 - **Not everything is an emergency.**
 - **The MOT sketch can be “pre-approved” and the closure dates can be set later.**
 - **9-am to 3pm is the standard lane closure time; however, some sites may allow adjusted or additional hours. To be considered on a case by case basis.**
- **Accela Right of Way Management will include:**
 - Utility will be Responsible for checking Accela - Limited email notification of permit status change.
 - Ability for Utility Company to see all of their permits and the current status.
 - **Permits will be issued by PDF only - not on hard copy.**
- **Spring Restoration – Be prepared!**
 - April 2, 2018 is advertised opening day for the asphalt plant.
 - 21 day limit reactivated for new surface cut permits
 - 60 day limit to restore “winter surface cuts” is **June 4th, 2018** - then 21 day limit restarts.
 - List of “winter surface cuts” will be sent – **prior to April 2.**
 - **EDGE SEAL, EDGE SEAL, EDGE SEAL – is required**
- **Document the existing site conditions – site and surroundings**
 - Tire ruts – avoid or restore –**precondition pictures are best defense**
- **The Right of Way Permit**
 - Issued to the registered Utility Company – not the contractor

- Make sure to convey LFUCG standards, policies and directions
- Pavement restorations are improving, but still room for improvement -square off the patch, place edge seal.
- **Business/Contractor Registration links**
 - <https://www.lexingtonky.gov/how-to-start-a-business-lexington>
 - <https://www.lexingtonky.gov/how-to-register-as-a-contractor>
- **Land Disturbance Permits for linear utility projects – DOE New Development**
 - Required for disturbing more than 500 lf of unpaved land surface
 - Code of Ordinances Chapter 16-X-5 https://library.municode.com/ky/lexington-fayette_county/codes/code_of_ordinances?nodeId=COOR_CH16SEGAREWE_ARTXSTDI_DIV5RESOER
 - “Operational linear utility line erosion control plan” for more than 10 projects/year
 - LDP Permit questions can be directed to: ~~Josh Dezar~~ – correction - Hillard Newman hnewman@lexingtonky.gov
- **Open Discussion and Questions**
 - What needs to be discussed / improved?

UCCM 2-22-2018 SIGN IN SHEET

Utility Companies Representatives

SIGNATURE	NAME		REPRESENTING	EMAIL	PHONE
	Last	First			
	Amato	Robert	City of Nicholasville		
	Ambrose	Frank	AT&T		
	Blythe	Phillip	Clark Energy		
<i>Kay Botkins</i>	Botkins	Kay	Columbia Gas of KY		
<i>Alex Brosky</i>	Brosky	Alex	KY Backhaul		
	Cavallaro	Carol	Lightower		
<i>Krista Citron</i>	Citron	Krista	Kentucky American Water		
	Clark	Lisa	Crown Castle		
<i>Art Cofield</i>	Cofield	Art	MetroNet		
	Collins	Brett	Kentucky American Water		
	Combs	Rad	Bluegrass Energy		
	Compton	Richard	KU		
<i>Tom Conlee</i>	Conlee	Thomas	Delta Gas		
	Cooper	James	Columbia Gas of KY		
	Cooper	Judy	Columbia Gas of KY		
	Cottrill	Ben	Wild Telecommunications, Inc		



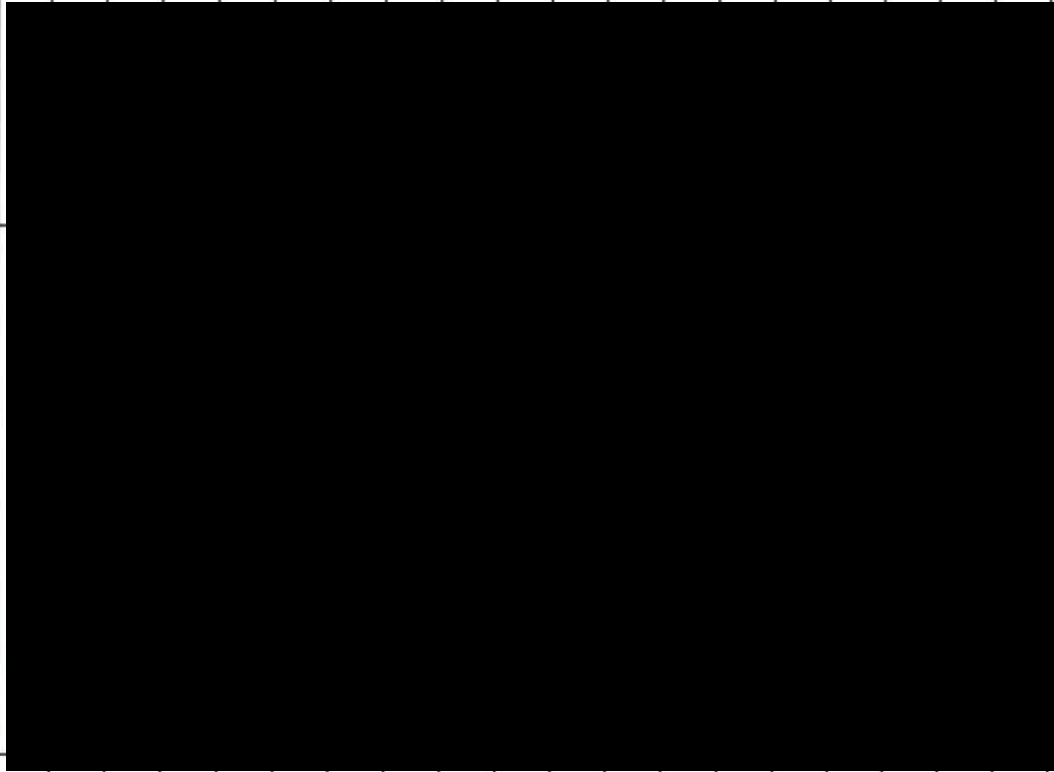
CAF 1/24/18

Utility Companies Representatives

SIGNATURE	NAME		REPRESENTING	EMAIL	PHONE
	Last	First			
	Davis	John	NE Woodford County Water District		
	Felts	Jon	Kentucky American Water		
	Floyd	Bambi	Kentucky American Water		
	Frame	Clay	AT&T		
	Fowler	Mark	MetroNet		
<i>[Signature]</i>	Garvin	Kelly	Kentucky American Water		
	Hagan	Tim	Kentucky Wired		
	Harlow	Roy	Intermountain Cable, Inc.		
	Hartner	Jon	Black & Veatch		
	Henson	Jason	Windstream		
	Hungate	Bethany	Kentucky American Water		
	Jackson	Jarold	Kentucky American Water		
	Johnson	Steve	Windstream		
<i>[Signature]</i>	Long	Kevin	Kentucky Utilities		
	Lonobile	Kim	Lighttower		
	Mason	Jeremy	Windstream		
	Mcdonie	Ralph	Charter		
<i>[Signature]</i>	Mitcham	Cole	Kentucky American Water		
<i>[Signature]</i>	Moran	Rennette	Columbia Gas of KY		



Utility Companies Representatives

SIGNATURE	NAME		REPRESENTING	EMAIL	PHONE
	Last	First			
	Olson	Adrienne	Lighttower		
	Prather	Michael	Lighttower		
	Pressgrove	Jordan	Kentucky Wired		
	Rosato	Steve	Crown Castle		
	Russell	Joseph	Kentucky Utilities		
	Sanders	Ashley	Windstream		
	Sewell	Mark	Level 3		
	Sharp	Nicholas	Lighttower		
	Sizemore	Ronald L	Charter		
	Smith	John	Lighttower		
	Stinnett	Michael	City of Nicholasville		
	Storey	John	MetroNet		
	Tilly	Adam	Kentucky American Water		
	Trimble	David	Windstream		
	Walker	Tom	Columbia Gas of Kentucky		
	Waters Jr.	Harold	Level 3		
	Watts	Thomas	Delta Gas		
	Wells	Tyler	Kentucky American Water		
	Mungo	Jasmine	Kentucky American Water		




















Handwritten signatures in blue ink:
 - A signature over the 'Watts' row.
 - A signature over the 'Wells' row.

Utility Companies Representatives

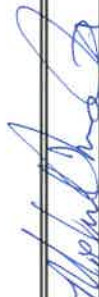



SIGNATURE	NAME		REPRESENTING	EMAIL	PHONE
	Last	First			
	Thore	Austin	Kentucky American Water	[Redacted]	[Redacted]
	Nash	STAURA	Kentucky American Water		

LFUCG Representatives

SIGNATURE	NAME		REPRESENTING	EMAIL	PHONE
	Last	First			
	Barnett	Debbie	LFUCG - WQ		
	Burton	Douglas	LFUCG-ENG		
	Chervus	Rodney	LFUCG - WQ		
	Drosick	Stephen	LFUCG-ENG-RW		
	Feibes	Mark	LFUCG-ENG		
	Hayes	Brian	LFUCG-ENG		
	Hicks	Chester	LFUCG-EQ&PW		
	Killens	Ersula	LFUCG - WQ		
	Knapp	Brian	LFUCG-ENG-RW		
	Martin	Charles	LFUCG - WQ		
	May	Vincent	LFUCG-ENG-RW		
	Miller	Albert	LFUCG- S&R		
	Milligan	George	LFUCG-EQ&PW		
	Neal	Jeffrey	LFUCG Traffic Eng		
	Osborne	William	LFUCG - S&R		
	Parker	Stephen	LFUCG Traffic Eng		
	Paulsen	Derek	LFUCG - PP&D		
	Queary	Tim	LFUCG-ENV - Urban Forest		
	Stevenson	Sharon	LFUCG-ENG-RW		



LFUCG Representatives

SIGNATURE	NAME		REPRESENTING	EMAIL	PHONE
	Last	First			
	Thomas	Mike	LFUCG - S&R	[REDACTED]	
	Wallen	Wanda	LFUCG - WQ		
	Wallingford	Darrin	LFUCG - ENG		
	Wente	Kevin	LFUCG - PP&D		
	Wray	Jim	LFUCG-ENG-RW		
	Ross	Jimmy	LFUCG RW		

NOTE: All black/blue text is the original agenda; all red text is additional minutes taken during the meeting.

The PowerPoint presentation is also included with these meeting minutes as it expands on all agenda items.

Agenda for the UCCM
January 10, 2018 at 10:00

- **Utility Coordinating Committee Meeting (UCCM) schedule**
 - 2018 Tri-yearly meetings (February, June/July and October/November)
 - Next meeting November 8, 2018 at 10:00am after Capital Project /utility meeting.
- **Utility Master Plan**
 - Keep LFUCG updated –especially for street cuts.
 - **Do not wait for registration packet to submit revised UMP**
- **Steel Plates – YEAR ROUND NOTIFICATION REQUIRED TO:**
 - Albert Miller albertm@lexingtonky.gov;
 - Rob Allen rallen@lexingtonky.gov;
 - Bill Osborne wosborne@lexingtonky.gov
 - Plate owner must be identifiable or painted on ground in white or pink
- **Sidewalk Blockage – Scott Thompson, Planning, Preservation & Development**
 - **Do not block sidewalks or bike lanes with construction signs etc. unless permitted.**
 - **Place “sidewalk closed” signs at intersections so pedestrians can cross before encountering the blockage.**
- **Policy changes**
 - No RW Installation Permit Required for - New Services to new houses in new development
 - All temporary asphalt patches (cold Patch) shall be marked with the Utility companies initials in white paint.
- **Road Swaps**
 - UK / LFUCG Road Swap – not effective yet
 - KYTC/LFUCG Road Swap – Effective February 11, 2018
 - **See PDF of Official Order 111079**
- **Horizontal Drilling Procedure - Gabe Hensley, Division of Water Quality**
 - **No illicit discharge into the drainage ways, storm sewer system or sanitary sewer system.**
 - **Collect and dispose of drilling fluid properly.**

- **Surface Cut Permit Restorations**
 - “Spring List” of Asphalt Restorations - results
 - 55% were restored in 60 days, 45% were not- NEEDS IMPROVEMENTS.
 - WHAT ARE YOU DOING TO IMPROVE?
 - Required to seal joints (aka edge seal)
 - Required to replace pavement marking/ striping
 - Contractors that do this type of work include, Central Seal, C & R Asphalt, Highway Marking, INC (others too)
 - Small Exploration holes in the roadway
 - Utility Trench in road without final asphalt surface

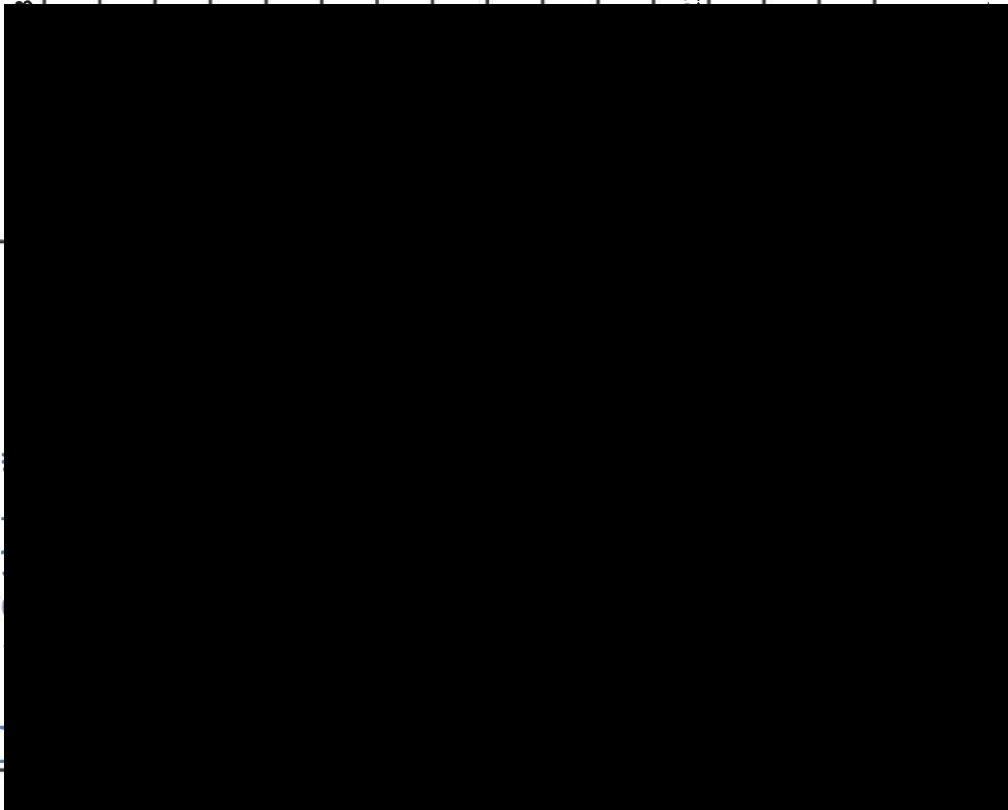
- **Accela Right of Way Management Software:**
 - Live date TBD
 - Accela will send PDF of approved permit, then Utility will be Responsible for checking Accela for permit status.
 - Ability for Utility Company to see all of their permits and the current status.
 - PDF only, no hard copies of permits
 - General public will be able to see location and limited information
 - Video demonstration was played, providing an example of what the program will do.

- **Open Discussion and Questions**

UCCM 7-10-2018 SIGN IN SHEET

Utility Companies Representatives

SIGNATURE	NAME		REPRESENTING	EMAIL	PHONE
	Last	First			
	Amato	Robert	City of Nicholasville		
	Ambrose	Frank	AT&T		
	Blythe	Phillip	Clark Energy		
<i>Kay Botkins</i>	Botkins	Kay	Columbia Gas of KY		
	Brosky	Alex	KY Backhaul		
	Cavallaro	Carol	Lighttower		
	Citron	Krista	Kentucky American Water		
	Clark	Lisa	Crown Castle		
<i>Art M. E. [Signature]</i>	Cofield	Art	MetroNet		
	Collins	Brett	Kentucky American Water		
	Combs	Rad	Bluegrass Energy		
	Compton	Richard	KU		
	Conlee	Thomas	Delta Gas		
	Cooper	James	Columbia Gas of KY		
	Cooper	Judy	Columbia Gas of KY		
	Cottrill	Ben	Wild Telecommunications, Inc		

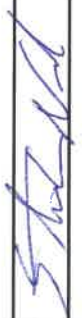



MICAK STAMARD





Utility Companies Representatives

SIGNATURE	NAME		REPRESENTING	EMAIL	PHONE
	Last	First			
	Davis	John	NE Woodford County Water District		
	Felts	Jon	Kentucky American Water		
	Floyd	Bambi	Kentucky American Water		
	Frame	Clay	AT&T		
	Garvin	Kelly	Kentucky American Water		
	Hagan	Tim	Kentucky Wired		
	Harlow	Roy	Intermountain Cable, Inc.		
<i>Jon Hartner</i>	Hartner	Jon	Black & Veatch		
	Henson	Jason	Windstream		
	Hungate	Bethany	Kentucky American Water		
	Jackson	Jarold	Kentucky American Water		
	Johnson	Steve	Windstream		
<i>Kevin Long</i>	Long	Kevin	Kentucky Utilities		
	Lonobile	Kim	Lighttower		
	Mason	Jeremy	Windstream		
	Mcdonie	Ralph	Charter		
	Mitcham	Cole	Kentucky American Water		
<i>Rennette Moran</i>	Moran	Rennette	Columbia Gas of KY		














Utility Companies Representatives

SIGNATURE	NAME		REPRESENTING	EMAIL	PHONE
	Last	First			
	Mungo	Jasmine	Kentucky American Water		
	Nash	Steven	Kentucky American Water		
	Olson	Adrienne	Lighttower		
	Prather	Michael	Lighttower		
	Pressgrove	Jordan	Kentucky Wired		
	Rosato	Steve	Crown Castle		
	Russell	Joseph	Kentucky Utilities		
	Sanders	Ashley	Windstream		
	Sewell	Mark	Level 3		
	Sharp	Nicholas	MetroNet		
	Sizemore	Ronald L	Charter		
	Smith	John	Lighttower		
	Stinnett	Michael	City of Nicholasville		
	Storey	John	MetroNet		
	Thore	Austin	Kentucky American Water		
	Tilly	Adam	Kentucky American Water		
	Trimble	David	Windstream		
	Walker	Tom	Columbia Gas of Kentucky		

Utility Companies Representatives

SIGNATURE	NAME		REPRESENTING	EMAIL	PHONE
	Last	First			
	Watts	Thomas	Delta Gas	[Redacted]	[Redacted]
	Wells	Tyler	Kentucky American Water	[Redacted]	[Redacted]
	Campbell	William	K.U.	[Redacted]	[Redacted]
	Covert	Douglas	KU - Adel KENTUCKY	[Redacted]	[Redacted]

LFUCG Representatives

SIGNATURE	NAME		REPRESENTING	EMAIL	PHONE
	Last	First			
	Barnett	Debbie	LFUCG - WQ		
	Burton	Douglas	LFUCG-ENG		
	Chervus	Rodney	LFUCG - WQ		
	Confides	James	LFUCG-ENG-RW		
	Drosick	Stephen	LFUCG-ENG-RW		
	Feibes	Mark	LFUCG-ENG		
	Hayes	Brian	LFUCG-ENG		
	Hicks	Chester	LFUCG-EQ&PW		
	Killens	Ersula	LFUCG - WQ		
	Knapp	Brian	LFUCG-ENG-RW		
	Martin	Charles	LFUCG - WQ		
	May	Vincent	LFUCG-ENG-RW		
	Miller	Albert	LFUCG- S&R		
	Milligan	George	LFUCG-EQ&PW		
	Neal	Jeffrey	LFUCG Traffic Eng		
	Osborne	William	LFUCG - S&R		
	Parker	Stephen	LFUCG Traffic Eng		
	Paulsen	Derek	LFUCG - PP&D		
	Queary	Tim	LFUCG-ENV - Urban Forester		

LFUCG Representatives

SIGNATURE	NAME		REPRESENTING	EMAIL	PHONE
	Last	First			
	Ross	Jimmy	LFUCG - WQ		
<i>Sharon Stevenson</i>	Stevenson	Sharon	LFUCG-ENG-RW		
<i>Michael Thomas</i>	Thomas	Mike	LFUCG - S&R		
	Wallen	Wanda	LFUCG - WQ		
	Wallingford	Darrin	LFUCG - ENG		
	Wente	Kevin	LFUCG - PP&D		
	Wray	Jim	LFUCG-ENG-RW		
	Arledge	Becky	LFUCG DWQ		
<i>Hensley</i>	<i>Hensley</i>	<i>Gabe</i>	<i>DWQ</i>		
<i>Beasley</i>	<i>Beasley</i>	<i>Bryan</i>	<i>LFUCG-S&R</i>		
<i>Thompson</i>	<i>Thompson</i>	<i>See H</i>	<i>Planning</i>		

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The PowerPoint presentation is also included with these meeting minutes as it expands on all agenda items.

Agenda for the UCCM
November 8, 2018 at 10:00

- **Communication and Coordination**
 - Next meeting March 14, 2019, then July and November
 - Registration Packets to be sent in January 2019 and returned in March
 - Committee needs more utility input **Please suggest topics/ add discussions.**
 - Asphalt plants to close mid-December- get asphalt restorations done before
 - Time to catch up on uncompleted concrete restoration work **Too many sites being left unrestored too long.**

- **Lane Blockage Permits – Sidewalks too**
 - Division of Traffic Engineering. **E-mail: lane_blockage@lexingtonky.gov**

- **Steel Plates – YEAR ROUND NOTIFICATION REQUIRED TO:**
 - Rob Allen rallen@lexingtonky.gov;
 - Bill Osborne wosborne@lexingtonky.gov
 - Deputy Director – T.B.D.
 - **Traffic Engineering is working on integrating the steel plate notification with the lane blockage permit/report.**
 - Plate owner must be identifiable or painted on ground in white or pink
 - Secure plates

- **KU Underground Transmission Project Update**
 - **Construction on High St is on hold due to traffic impact/allowable work times.**
 - **Construction will shift to Easter Ave end of the project.**

- **Surface Cuts Meeting attendees need to relay information to contractors.**
 - Initial temporary asphalt patches (cold Patch) with white paint.
 - Replace pavement striping and markings
 - Restoration QA/QC by the Utility Company
 - Approved Street Bore does not mean automatic approval of Street Cut

- **Small Cell Antennas**
 - New poles and attachments **Evaluated the same way.**
 - Attachment to streetlights **May be allowed with agreements and approval.**

- **LFUCG Fiber Optic Lines – managed by Traffic Engineering**
 - Not associated with 811
 - Submit a lane blockage permit application to check if it is on your project
 - **UG and OH fiber as well as UG and OH traffic signal lines.**

- **“Make Ready” work**
 - NJUNS – strongly encouraged to join **Join and use.**
 - .
- **LFUCG and KYTC dual permitting**
 - D7 Pavement Restoration Standard VS LFUCG standards
 - **Robert Baker is current contact at D7.**
- **Accela Right of Way Management Software preview**
 - Good development progress has been made
 - Getting registered **A preview was presented.**
 - Applying for permits **A preview was presented.**
- **Open Discussion, Questions and what YOU will add to next meeting?**
 - **Volunteer to lead a discussion**
 - **Request a topic.**
 - **What have we not thought of yet?**
 - **Be forward thinking.**

UCCM 11-8-2018 SIGN IN SHEET

Utility Companies Representatives

SIGNATURE	NAME		REPRESENTING	EMAIL	PHONE
	Last	First			
	Amato	Robert	City of Nicholasville		
	Ambrose	Frank	AT&T		
	Blythe	Phillip	Clark Energy		
	Botkins	Kay	Columbia Gas of KY		
	Brosky	Alex	KY Backhaul		
<i>William Campbell</i>	Campbell	William	KU		
	Cavallaro	Carol	Lighttower		
<i>Krista Citron</i>	Citron	Krista	Kentucky American Water		
	Clark	Lisa	Crown Castle		
	Cofield	Art	MetroNet		
<i>Brett Collins</i>	Collins	Brett	Kentucky American Water		
	Combs	Rad	Bluegrass Energy		
	Compton	Richard	KU		
<i>Thomas Conlee</i>	Conlee	Thomas	Delta Gas		

Utility Companies Representatives

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	Last	First			
	Cooper	James	Columbia Gas of KY		
	Cooper	Judy	Columbia Gas of KY		
	Cottrill	Ben	Wild Telecommunications, Inc		
	Davis	John	NE Woodford County Water District		
	Felts	Jon	Kentucky American Water		
	Floyd	Bambi	Kentucky American Water		
	Frame	Clay	AT&T		
	Garvin	Kelly	Kentucky American Water		
	Gooch	Douglas	AGE-Engineering (KU)		
	Hagan	Tim	Kentucky Wired		
	Harlow	Roy	Intermountain Cable, Inc.		
	Hartner	Jon	Black & Veatch		
	Henson	Jason	Windstream		
	Hungate	Bethany	Kentucky American Water		
	Jackson	Jarold	Kentucky American Water		
	Johnson	Steve	Windstream		

Utility Companies Representatives

SIGNATURE	NAME		REPRESENTING	EMAIL	PHONE
	Last	First			
	Long	Kevin	Kentucky Utilities		
	Lonobile	Kim	Lighttower		
	Mason	Jeremy	Windstream		
	Mcdonie	Ralph	Charter		
	Mitcham	Cole	Kentucky American Water		
	Moran	Renette	Columbia Gas of KY		
	Nash	Steven	Kentucky American Water		
	Olson	Adrienne	Lighttower		
	Prather	Michael	Lighttower		
	Pressgrove	Jordan	Kentucky Wired		
	Rosato	Steve	Crown Castle		
	Russell	Joseph	Kentucky Utilities		
	Sanders	Ashley	Windstream		
	Sewell	Mark	Level 3		
	Sharp	Nicholas	MetroNet		
	Sizemore	Ronald L	Charter		
	Smith	John	Lighttower		
	MOSBAUER	CLAY	DAVIS H. FLEET		
	FAWNS	THOMAS	DELTA GAS		



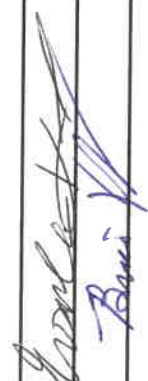



FAWNS Will DELTA GAS

Utility Companies Representatives

SIGNATURE	NAME		REPRESENTING	EMAIL	PHONE
	Last	First			
	Stallard	Micah	MetroNet		
	Steele	Cody	Columbia Gas of Kentucky		
	Stinnett	Michael	City of Nicholasville		
	Storey	John	MetroNet		
	Thore	Austin	Kentucky American Water		
	Tilly	Adam	Kentucky American Water		
	Trimble	David	Windstream		
	Walker	Tom	Columbia Gas of Kentucky		
	Wells	Tyler	Kentucky American Water		



LFUCG Representatives

SIGNATURE	NAME		REPRESENTING	EMAIL	PHONE
	Last	First			
	Arledge	Becky	LFUCG-WQ		
	Barnett	Debbie	LFUCG - WQ		
	Beasley	Bryan	LFUCG-S&R		
	Burton	Douglas	LFUCG-ENG		
	Chervus	Rodney	LFUCG - WQ		
	Confides	James	LFUCG-ENG-RW		
	Drosick	Stephen	LFUCG-ENG-RW		
	Feibes	Mark	LFUCG-ENG		
	Hayes	Brian	LFUCG-ENG		
	Hicks	Chester	LFUCG-EQ&PW		
	Killens	Ersula	LFUCG - WQ		
	Knapp	Brian	LFUCG-ENG-RW		
	Martin	Charles	LFUCG - WQ		
	May	Vincent	LFUCG-ENG-RW		
	Miller	Albert	LFUCG- S&R		
	Milligan	George	LFUCG-EQ&PW		
	Neal	Jeffrey	LFUCG Traffic Eng		
	MASON	JEREMY	WINDSTREAM		

LFUCG Representatives

SIGNATURE	NAME		REPRESENTING	EMAIL	PHONE
	Last	First			
	Osborne	William	LFUCG - S&R		
	Parker	Stephen	LFUCG Traffic Eng		
	Paulsen	Derek	LFUCG - PP&D		
	Queary	Tim	LFUCG-ENV - Urban Forester		
	Ross	Jimmy	LFUCG - WQ		
	Stevenson	Sharon	LFUCG-ENG-RW		
<i>Sharon Stevenson</i>	Thomas	Mike	LFUCG - S&R		
	Wallen	Wanda	LFUCG - WQ		
<i>Wanda Wallen</i>	Wallingford	Darrin	LFUCG - ENG		
	Wente	Kevin	LFUCG - PP&D		
<i>Kevin Wente</i>	Wood	Dani	LFUCG-Traffic Eng		
	Wray	Jim	LFUCG-ENG-RW		
<i>Jim Wray</i>	<i>COXBORNE</i>	<i>MICHAEL</i>	<i>LFUCG - WQ - STORM</i>		
<i>Michael Coxborne</i>	<i>COMPTON</i>	<i>RICHARD</i>	<i>PP&D</i>		

Agenda for the UCCM
March 14, 2019 at 10:00

- **Communication and Coordination**
 - Next meeting July 25, 2019, then November 14, 2019
 - Asphalt plants may open last week of March/ first week of April – BE Ready!
 - Proper backfill / dressing against sidewalks and curbs.
 - Initial temporary patches with white paint.
- **Steel Plates – YEAR ROUND NOTIFICATION REQUIRED**
 - Enhanced notification system being researched
 - Mark plates, secure plates
- **LFUCG Fiber Optic Lines – managed by Traffic Engineering**
 - Not associated with 811
 - Submit a lane blockage permit application to check if it is on your project
- **KU Underground Transmission Project Update**
- **KYTC, District 7 Permits – Robert Baker, P.E.**
 - Permit requirements
 - Who, What, Where, When
 - D7 Pavement Restoration Standard
 - Temporary
 - Final
- **LFUCG - Surface Cut**
 - **Temporary Restoration**
 - New (trial) policy to allow concrete to the surface.
 - Winter restoration options
 - **Final Restoration**
 - Prorated/shared paving
 - Utility/Utility
 - Utility/LFUCG
- **Small Cell Antenna Technology**
 - FCC regulation compliance – Ordinance 17C changes
 - Voice all 17C comments before or during the March 21, 2019 Council Meeting.
 - M.O.U. for street light decommissioning – work in progress
- **Town Branch Commons (TBC)**
 - Ordinance 17C changes to identify unique standards for work along TBC
- **Accela Right of Way Management Software**
 - Software development complete, currently working out contractual agreements
- **Open Discussion and Questions**

Draft Revisions to Ordinance 17C

AN ORDINANCE AMENDING SECTION 17C-3 OF THE CODE OF ORDINANCES TO AMEND THE DEFINITION OF “ANNUAL GENERAL PERMIT” AND “FACILITIES” AND INCLUDE DEFINITIONS FOR “COMMUNICATIONS FACILITY”, “POLE”, “SMALL WIRELESS FACILITIES”, “SUPPORT STRUCTURE”, “TOWER”, “TOWN BRANCH COMMONS”, “WIRELESS FACILITIES”, AND “WIRELES SERVICES”;

AMENDING SECTION 17C-7(C) TO INCLUDE TOWERS AND SUPPORT STRUCTURES;

AMENDING SECTION 17C-19(E) TO INCLUDE ADHERENCE TO THE DEVELOPMENT PLAN FOR TOWN BRANCH COMMONS AND AESTHETIC STANDARDS IN THE CRITERIA FOR OBTAINING INSTALLATION PERMITS;

CREATING SECTION 17C-19.2 TO PROVIDE SAID AESTHETIC STANDARDS;

AMENDING SECTION 17C-20 TO CHANGE THE TITLE AND INCLUDE TOWERS AND SUPPORT STRUCTURES;

AMENDING SECTION 17C-21(1) TO INCLUDE TOWERS AND SUPPORT STRUCTURES;

AMENDING SECTION 17C-22(B) TO LIMIT ANNUAL GENERAL PERMIT FEES FOR SMALL WIRELESS FACILITIES;

CREATING SECTION 17C-29 TO INCLUDE THE STANDARDS FOR UNDERGROUND FACILITIES, ABOVEGROUND FACILITIES, CONSTRUCTION, AND RESTORATION IN THE TOWN BRANCH COMMONS.

Link to draft revisions:

<http://lexington.legistar.com/LegislationDetail.aspx?ID=3873092&GUID=5918748A-E819-45E8-A8D4-E3302A17D832&Options=&Search=>

UCCM 3-14-2019 SIGN IN SHEET

Utility Companies Representatives

SIGNATURE	NAME		REPRESENTING	EMAIL	PHONE
	Last	First			
	Amato	Robert	City of Nicholasville		
	Ambrose	Frank	AT&T		
	Blythe	Phillip	Clark Energy		
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	Campbell	William	KU		
	Cavallaro	Carol	Lighttower		
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<i>Lisa Clark</i>	Clark	Lisa	Crown Castle		
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	Collins	Brett	Kentucky American Water		
	Combs	Rad	Bluegrass Energy		
	Compton	Richard	KU		
	Conlee	Thomas	Delta Gas		
<i>Jack</i>	<i>Jack</i>	<i>Jennifer</i>	<i>Verizon</i>		

Utility Companies Representatives

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	Cooper	James	Columbia Gas of KY		
	Cooper	Judy	Columbia Gas of KY		
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	Davis	John	NE Woodford County Water District		
	Fawn	Will	Delta Gas		
	Felts	Jon	Kentucky American Water		
	Floyd	Bambi	Kentucky American Water		
	Frame	Clay	AT&T		
<i>R. Clay Frame</i>	Garvin	Kelly	Kentucky American Water		
	Gooch	Douglas	AGE-Engineering (KU)		
	Hagan	Tim	Kentucky Wired		
	Harlow	Roy	Intermountain Cable, Inc.		
	Hartner	Jon	Black & Veatch		
	Henson	Jason	Windstream		
	Hungate	Bethany	Kentucky American Water		
	Jackson	Jarold	Kentucky American Water		

Utility Companies Representatives

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Johnson	Steve			Windstream		
Kern	Michael			Kentucky Utilities		
Long	Kevin			Kentucky Utilities		
Lonobile	Kim			Lightower		
Mason	Jeremy			Windstream		
Massie	Patrick			Crown Castle		
Mcdonie	Ralph			Charter		
Mitcham	Cole			Kentucky American Water		
Moran	Rennette			Columbia Gas of KY		
Mossbarger	Clay			Davis H Elliot		
Nash	Steven			Kentucky American Water		
Olson	Adrienne			Lightower		
Prather	Michael			Lightower		
Pressgrove	Jordan			Kentucky Wired		
Rosato	Steve			Crown Castle		
Russell	Joseph			Kentucky Utilities		
Sanders	Ashley			Windstream		
BACKSDALE	Alvin			Kentucky Wired		

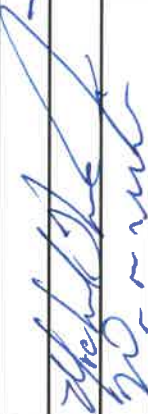


Utility Companies Representatives

SIGNATURE	NAME		REPRESENTING	EMAIL	PHONE
	Last	First			
	Sewell	Mark	Level 3		
	Sizemore	Ronald L	Charter		
	Smith	John	Lighttower		
<i>Mind Steele</i>	Stallard	Micah	MetroNet		
	Steele	Cody	Columbia Gas of Kentucky		
	Stinnett	Michael	City of Nicholasville		
	Storey	John	MetroNet		
	Thore	Austin	Kentucky American Water		
	Tilly	Adam	Kentucky American Water		
	Trimble	David	Windstream		
	Walker	Tom	Columbia Gas of Kentucky		
	Wells	Tyler	Kentucky American Water		
<i>D Owens</i>	<i>D Owens</i>	<i>Nichole</i>	<i>Kentucky American Water</i>		
<i>J Jackson</i>	<i>J Jackson</i>	<i>Jim</i>	<i>KY Utilities</i>		
<i>Sherman</i>	<i>Sherman</i>	<i>R J</i>	<i>Kentucky American Water</i>		

LFUCG Representatives

SIGNATURE	NAME		REPRESENTING	EMAIL	PHONE
	Last	First			
<i>Debbie R. Barnett</i>	Barnett	Debbie	LFUCG - WQ		
	Arledge	Becky	LFUCG-WQ		
	Beasley	Bryan	LFUCG-S&R		
	Burton	Douglas	LFUCG-ENG		
<i>X R. ...</i>	Chervus	Rodney	LFUCG - WQ		
<i>Michael ...</i>	Clayborne	Mike	LFUCG-WQ-Storm		
	Confides	James	LFUCG-ENG-RW		
<i>500</i>	Drosick	Stephen	LFUCG-ENG-RW		
<i>Matthew</i>	Feibes	Mark	LFUCG-ENG		
	Garthee	Scott	LFUCG- S&R		
	Hayes	Brian	LFUCG-ENG		
<i>Christie ...</i>	Hicks	Chester	LFUCG-EQ&PW		
<i>Michael ...</i>	Killens	Ersula	LFUCG - WQ		
<i>Brian ...</i>	Knapp	Brian	LFUCG-ENG-RW		
	Martin	Charles	LFUCG - WQ		
<i>Vincent ...</i>	May	Vincent	LFUCG-ENG-RW		
<i>Michael ...</i>	Milligan	George	LFUCG-EQ&PW		
<i>Michael ...</i>	Kern	Michael	GGG+RU Trans.		74

LFUCG Representatives

SIGNATURE	NAME		REPRESENTING	EMAIL	PHONE
	Last	First			
	Neal	Jeffrey	LFUCG Traffic Eng		
	Osborne	William	LFUCG - S&R		
	Parker	Stephen	LFUCG Traffic Eng		
	Queary	Tim	LFUCG-ENV - Urban Forester		
	Ross	Jimmy	LFUCG - WQ		
	Stevenson	Sharon	LFUCG-ENG-RW		
	Thomas	Mike	LFUCG - S&R		
	Wallen	Wanda	LFUCG - WQ		
	Wallingford	Darrin	LFUCG - ENG		
	Wente	Kevin	LFUCG - PP&D		
	Wood	Dani	LFUCG-Traffic Eng		
	Wray	Jim	LFUCG-ENG-RW		

UTILITY COORDINATING COMMITTEE MEETING

March 14, 2019



Communication and Coordination

- Utility Coordinating Committee Meeting (UCCM).
 - Ordinance 17C -7(h) establishes us as a Committee.
 - The Committee consists of:
 - Each registered utility company
 - LFUCG Director of the Division of Engineering (and/or representatives)



Communication and Coordination

Introductions

- Doug Burton, PE, PMP - Director of Engineering/Urban County Engineer
- Brian Knapp, PE, PLS - Division of Engineering, Right of Way Management Manager
- DOE/ RW Management/ Engineering Technicians
 - Vince May
 - Stephen Drosick
 - Jim Wray
 - James Confides
 - Sharon Stevenson – Retired in January

Communication and Coordination

- Utility Coordinating Committee Meeting
Members (20+):

- AT&T Corp. (Legacy T)
- AT&T Kentucky (Bell South)
- Blue Grass Energy
- Century Link
- Charter Communications
- Clark Energy
- Columbia Gas of Kentucky
- Crown Castle
- Delta Gas
- Inter Mountain Cable
- Kentucky American Water
- Kentucky Utilities
- KY Backhaul Transmission Networks, LLC
- Level 3 Communications
- *LFUCG DOE - Director of Engineering*
- *LFUCG – various divisions*
- LFUCG Water Quality (Sanitary Sewers)
- Lighttower Fiber Networks (Fibertech)
- Metro Fibernet, LLC
- NE Woodford County
- Nicholasville City Water
- Verizon Wireless (registration pending)
- Wild telecommunication, Inc. (pending)
- Windstream

Communication and Coordination

- Utility Coordinating Committee Meeting (UCCM).
 - Tri-yearly meeting schedule in 2019 (March, July and November)
 - **Next meeting – July 25, 2019 will NOT following the LFUCG Capital projects Utility Meeting**
- Registration packets
 - Thank you for returning
 - Being processed

Communication and Coordination

- Spring is coming!
- Asphalt Plant estimated opening:
 - Last week of March/first week of April
 - **New Surface Cut Permits** – 21 day limit for restoration begins
 - **“Winter cuts”** - 60 days after the Asphalt plant reopens any un-restored “winter cuts” will be reassessed the permit fee and then again every 21 days until restored.
- LFUCG will send a list of all open Surface Cuts near the end of March.
- **Please plan ahead!**



Communication and Coordination

Ordinance 17C -3 Definitions

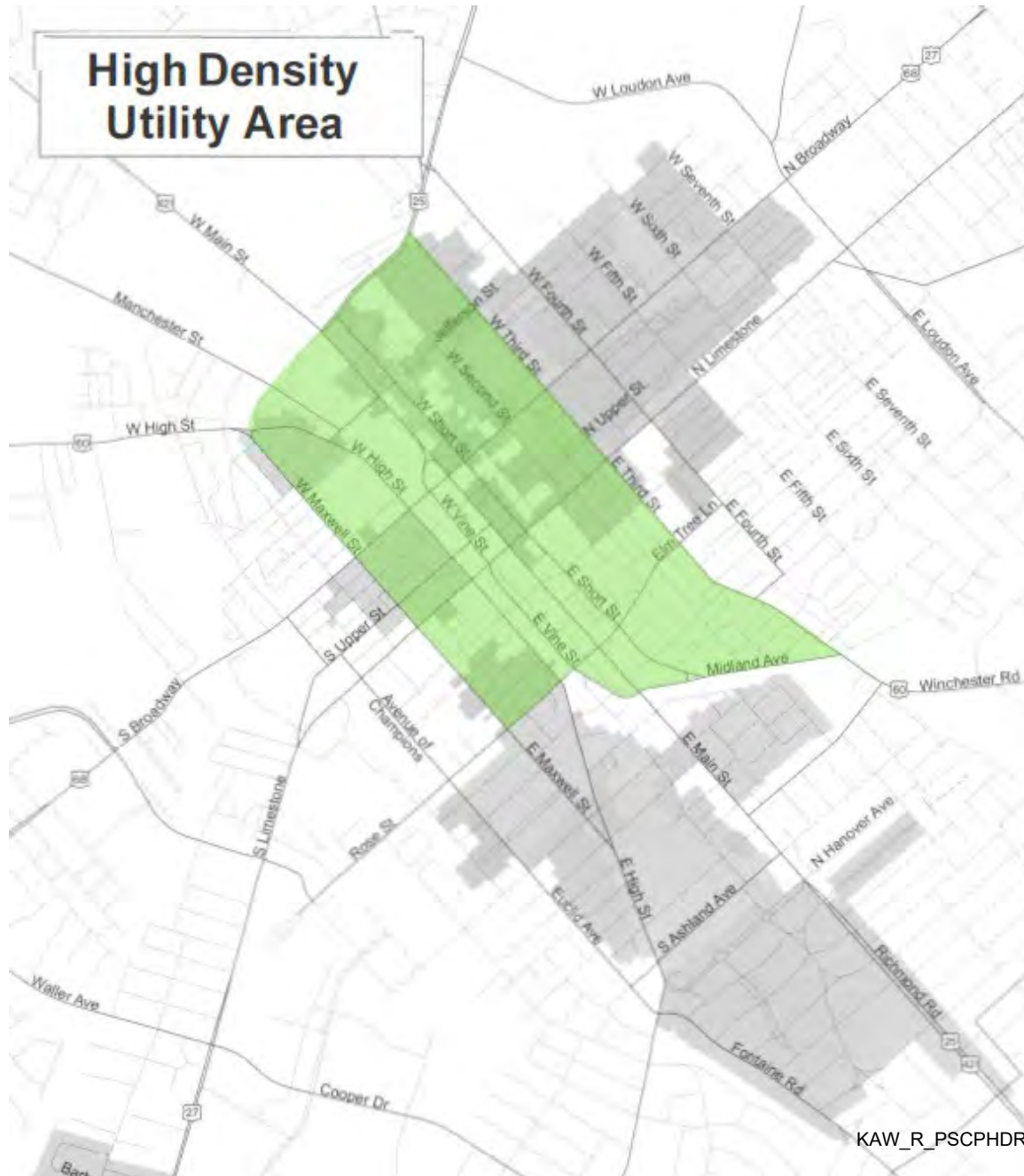
High Density Utility Areas

High density utility areas means geographic areas in which significant issues exist with respect to the location of facilities because of space or density issues in the right-of-way. The following geographic areas are currently identified as high density utility areas:

- (1) The area located inside and abutting to Third Street on the northeast, Midland Avenue and Rose Street on the south, Maxwell Street on the southwest and Cox Street and Newtown Pike on the northwest;
- (2) The area abutting Corporate Drive;

An Annual General Permit (AGP) is not valid for any work inside the High Density Utility Area. The permit will be changed to an Installation Permit (\$100 fee).

High Density Utility Area



Communication and Coordination

Sidewalk – proper back fill/dressing

Utility Strip – fill and level



Marking Temporary Surface Cut Patches

- Paint Utility Company initials in cold patch with **white paint**. (We don't want it to be confused with a utility locate marking.)



Steel Plates

- Use of Signs are Strongly encouraged!



Steel Plates



- **YEAR ROUND NOTIFICATION of any steel plate** located in Public Right of Way is required:
- The plate shall contain a marking that identifies the responsible party
 - Initials on the plate or painted right beside the plate with WHITE or PINK paint.

Steel Plates



- **YEAR ROUND notification of steel plate location** is required by email to Streets and Roads, send to both:
 - Robert Allen rallen@lexingtonky.gov
 - Bill Osborne wosborne@lexingtonky.gov
- Notification email shall include:
 - 24 hour point of contact; name, phone and email address. (shall be **reasonably** monitored 24 hours a day)
 - location, lane, and duration of plate placement.
- Send email notification once the plate has been removed.

UPDATE- An enhanced notification system is in the works:

- **A new, single email address will be created soon.**
- **Improved list sharing among LFUCG divisions.**
- **Possible future list sharing outside LFUCG.**

LFUCG Fiber Optic Lines

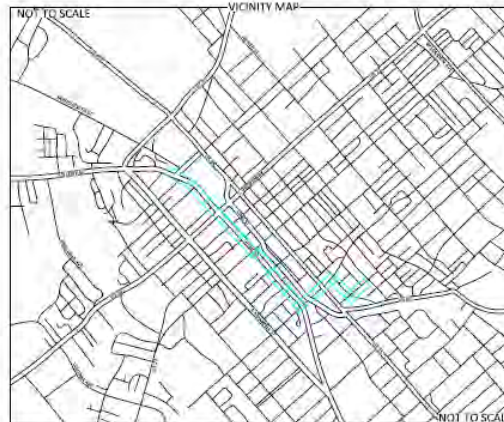
- **Managed by Traffic Engineering (TE)**
- **TE is currently inventorying all LFUCG Fiber**
- **Most LFUCG fiber is located along signalized routes**
- **Not registered with 811 – will not get marked**
- **To check for possible fiber on your project site:**
 - **apply for a Lane Blockage permit even if they do not plan to block a lane or sidewalk. But write on the permit “requesting the location of LFUCG fiber optic lines inside the project area.”**



Project Update

Tim Jackson - KU Sr. Transmission Inspector
Clay Mossbarger – Elliot Project Manager

KENTUCKY UTILITIES
CONSTRUCTION PLANS
PROJECT# 139696
DOWNTOWN LEXINGTON 69 KV UNDERGROUND TRANSMISSION CORRIDOR
HIGH ST., VINE ST. AND RACE ST.
LEXINGTON, FAYETTE COUNTY, KENTUCKY



CLIENT



KENTUCKY UTILITIES
1 QUALITY ST.
LEXINGTON, KY 40507



P.O. BOX 204
165 FOSTER LANE
STANFORD, KY 40484
PHONE (606) 365-8362
FAX (606) 365-1097

INDEX OF SHEETS

1	COVER SHEET
2	GENERAL NOTES
3	AREA MAP KEY
4	WEST HIGH STREET SUBSTATION CONNECTION
5-10	HIGH STREET TO VINE STREET
11-11A	VINE STREET SUBSTATION CONNECTION
12-18	VINE STREET TO RACE STREET
19	RACE STREET SUBSTATION CONNECTION
20-21	DUCT BANK SUBSECTION ALIGNMENTS
22-25	PAVING PLAN
26-27	DETAIL SHEETS



Robert A. Baker, P.E.

KYTC, District 7 Permits
800 Newtown Court
Lexington, KY 40511

Office: (859) 246-2355

Email: RobertA.Baker@ky.gov



Utility Permits

Who Is To Apply?

- * Entity who owns the structure
 - Not the contractor
 - Contractor may be required in special cases

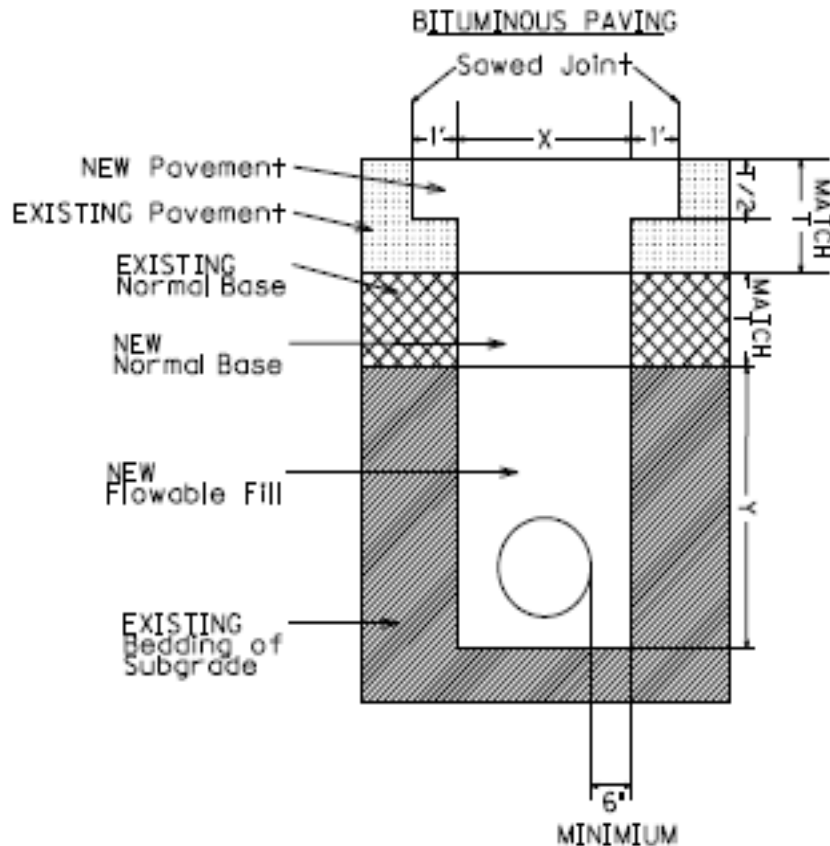
What To Submit?

- * TC 99-1A – Permit Application
- * Plan Sheets
 - General Location
 - Details – size of cut, pavement restoration, depths, heights, etc.
 - Traffic Control Plan, if needed
- * Submit a PDF and 3 Hard Copies

When To Apply?

- * As Soon As Possible
 - Before the work begins
 - Ample Time for Review
 - Corrections made before installation

Pavement Restoration



- Match Existing Thickness of Asphalt
- Flowable Fill or Concrete
- No Concrete To the Surface
- Except Temporary Winter Patch

Future Plans

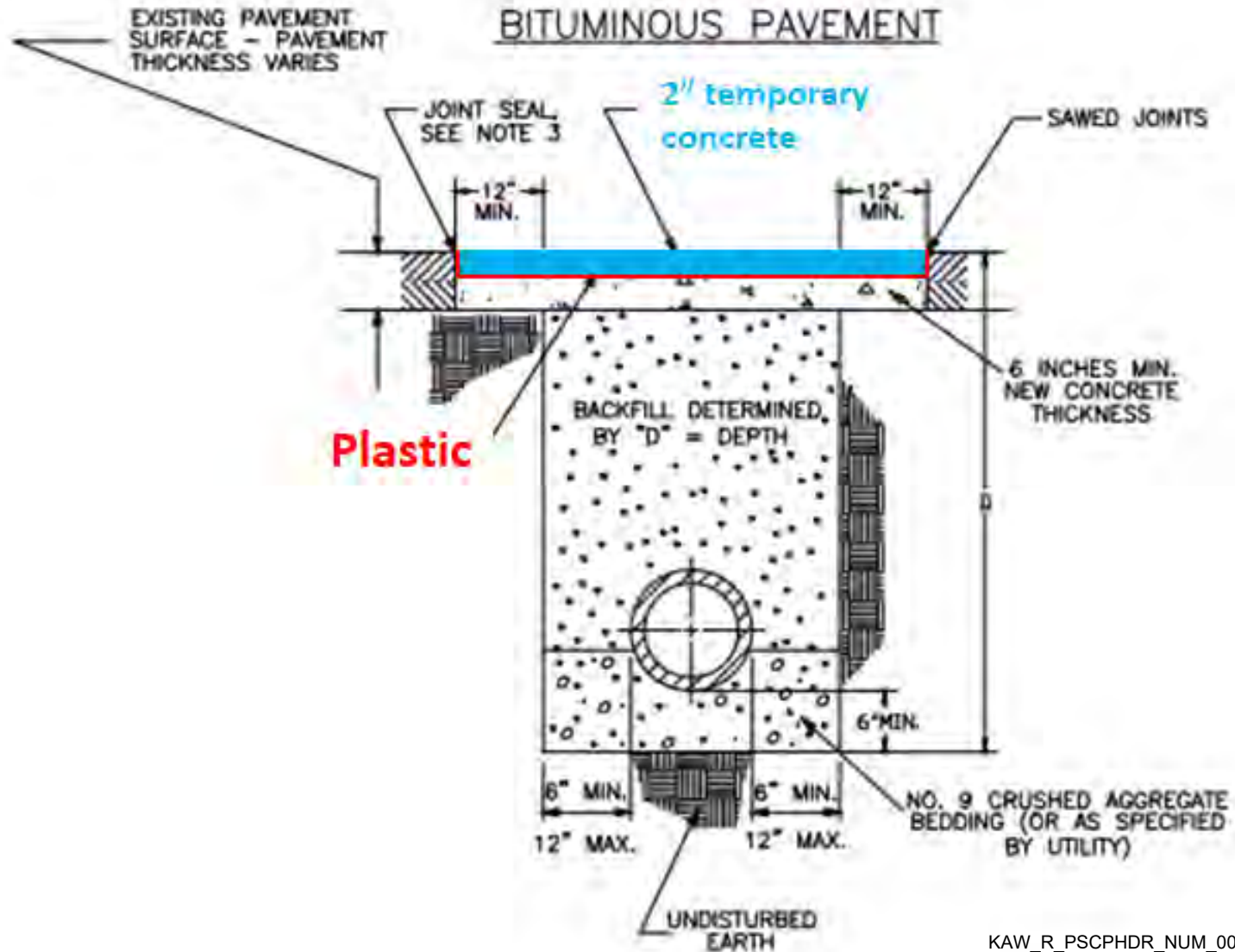
- * Going paperless
- * New interactive web-based application process
 - Central Office is working on

Questions?

Temporary Restoration of Surface Cuts on LFUCG Roads (slide 1 of 4)

1. Cold patch on back fill
2. Cold patch on concrete cap
3. Concrete to the surface (trial policy)

Temporary Restoration with concrete to surface (slide 2 of 4)



Temporary Restoration of Surface Cuts on LFUCG Roads (slide 3 of 4)

- Concrete to the surface is now allowed with the following requirements:
 1. Contractor to notify Streets and Roads in advance of the concrete pour so an inspection can be made.
 1. However, the inspection is not mandatory and the contractor may proceed in good faith should an LFUCG representative not be available.
 2. Top 2" (minimum) of concrete shall be separated from the 6" concrete cap by a layer of plastic.
 3. Top surface of concrete shall be flush with the surrounding roadway and have a relatively smooth finish. Mark it with your initials.

Temporary Restoration of Surface Cuts on LFUCG Roads (slide 4 of 4)

Continued:

4. Contractor to notify Streets and Roads in advance of the milling operation (or removal operation) for an inspection.
 1. A 2" minimum mill is required.
 5. Tack coat shall be applied between the 6" concrete cap and asphalt surface.
 6. While asphalt plants are **open**, surface concrete may only remain for the duration of the approved permit.
 7. While asphalt plants are **closed**, surface concrete may remain until 60 days after the plant reopens.
-
- Results of the “trial policy” will be evaluated.

Temporary Restoration with concrete to surface

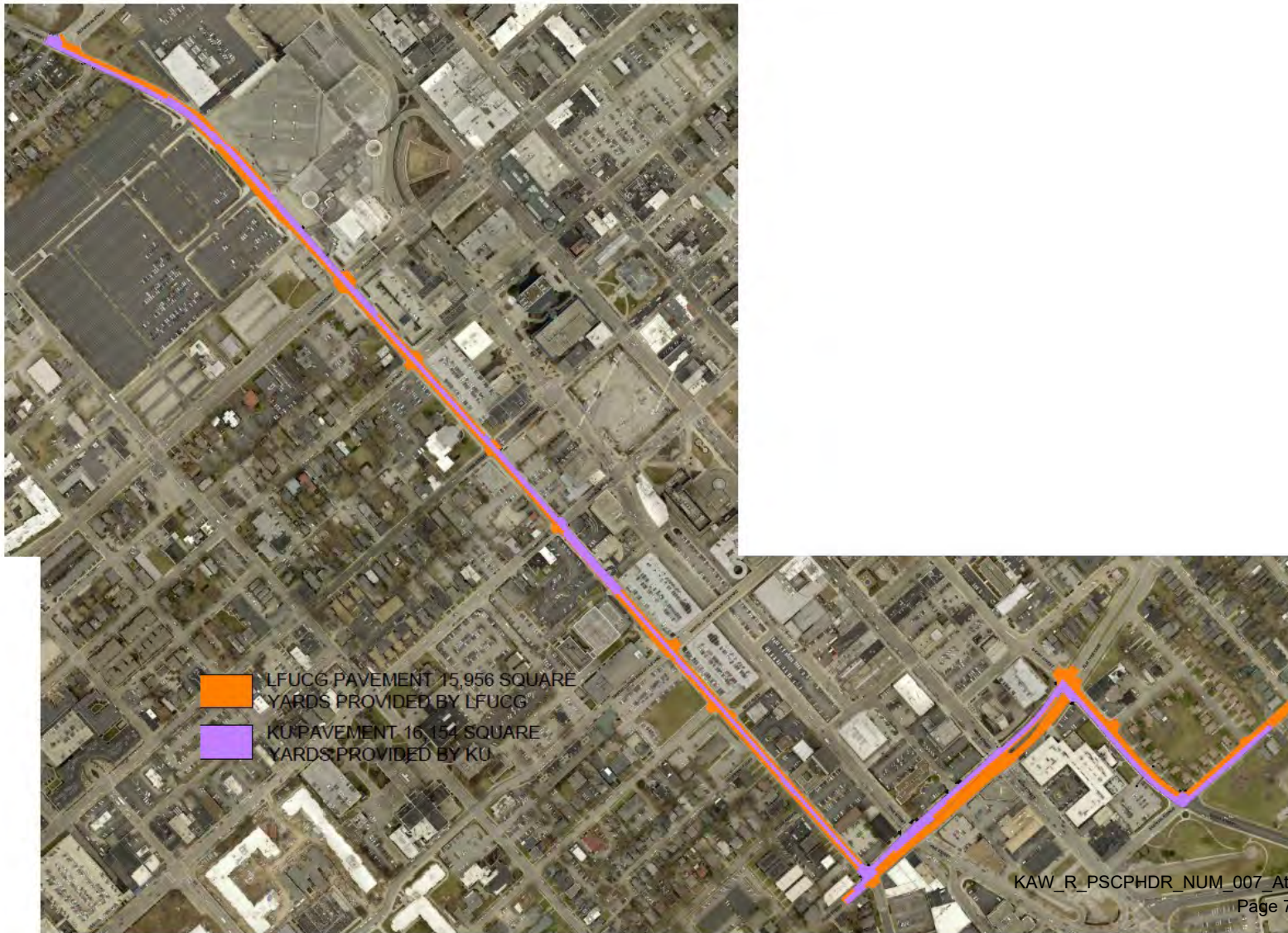
2" minimum required



Final Restoration of Surface Cuts on LFUCG Roads with Shared or Prorated paving

- **Shared paving**
 - 2 or more utilities working on the same stretch of road at the same time and must coordinate the final restoration among themselves. **LFUCG paving not involved.**
- **Prorated paving**
 - Once the limits of final restoration are determined, then LFUCG decides to pave outside those limits.
 - **The utility performs all temporary restorations** including the concrete cap, temporary asphalt surface and temporary markings over the trench. (Concrete to the surface not allowed for prorated paving.)
 - **Utility transfers payment to LFUCG** equal to the “LFUCG unit cost” for milling, surfacing and marking the final restoration limits.
 - LFUCG adds this payment to our own money, pays the LFUCG paving contractor and oversees the resurfacing of the total area.
 - Can be prorated with more than 1 utility.

Final Restoration of Surface Cuts on LFUCG Roads with Prorated paving



Final Restoration of Surface Cuts on LFUCG Roads with Prorated paving



17C CHANGES PER FCC ORDER

Planning and Public Safety Committee

March 5, 2019

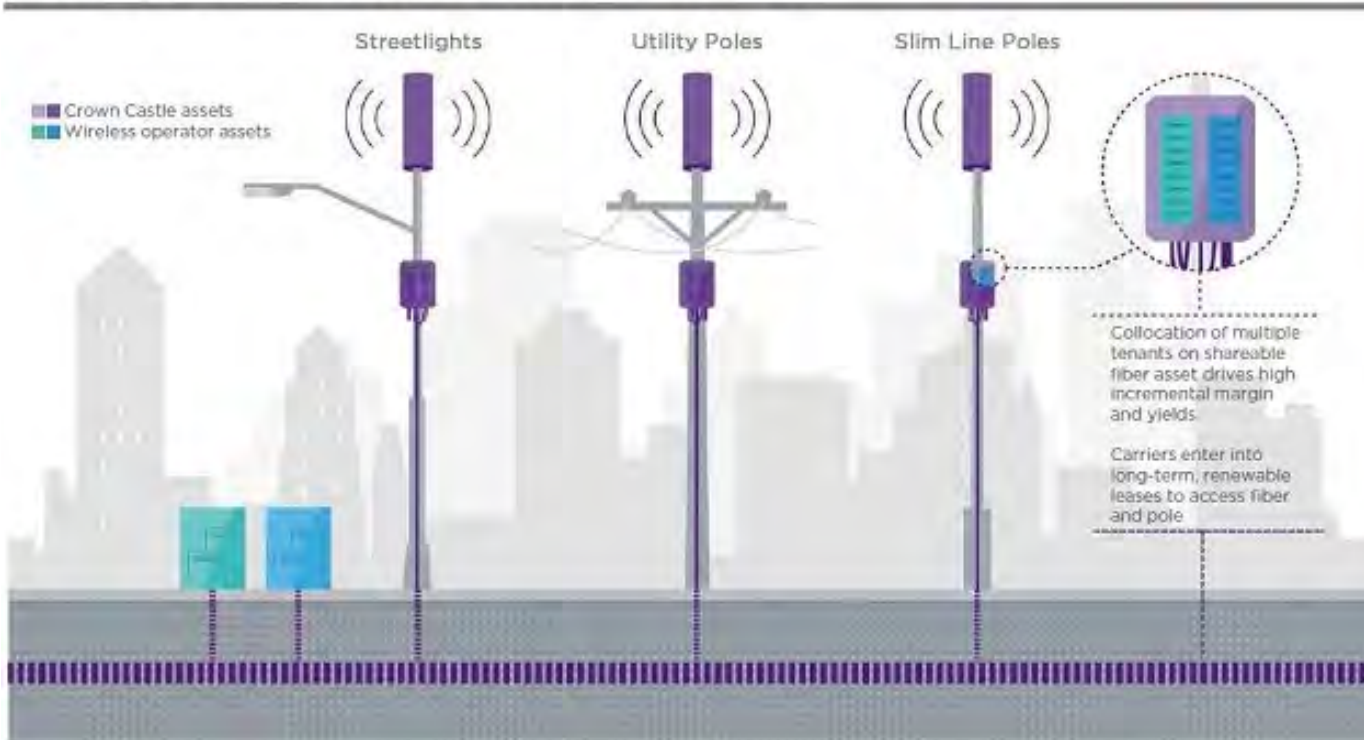


LEXINGTON

Small Wireless Facilities

What Are Small Cells?

Fiber fed small cells enable wireless carriers to add much needed coverage and capacity to relieve congestion on their networks



Federal Communications Commission Order

- Implementation of new broadband services, including 5G
 - 2 components
 - Rules
 - Declaratory Ruling
 - Interpretations of existing federal laws

- Goal
 - Make it easier to install small wireless facilities
 - May make it more difficult for local governments to regulate



Rules

- “Shot Clocks” (Presumptively reasonable times)
 - 60 calendar days to review application for attachment of Small Wireless Facility to an existing structure
 - 90 calendar days to review application for attachment on a new structure

- **No change proposed in 17C**
 - 17C timelines already much less than FCC
 - 10 days



Declaratory Ruling – General

- Can not “effectively prohibit” wireless telecom services
 - New interpretation says local regulation can’t “materially inhibit”

- What would “materially inhibit”
 - Excessive fees
 - Unreasonable, unpublished aesthetic requirements



Declaratory Ruling – Fees

- Fees must be based on the reasonable approximation of local government's costs.
- The FCC provides amounts it believes to be reasonable:
 - \$500 for non-recurring fees, including application fees for up to 5 Small Wireless Facilities, with \$100 per additional Small Wireless Facility, or \$1000 for installations on new poles
 - \$270 a year per Small Wireless Facility in all recurring costs.
- We can charge more if we can show our costs are higher.
- Requires additional language in Section 17C-22(b)



Declaratory Ruling – Aesthetic Requirements

- Enact reasonable and objective aesthetic requirements for Small Wireless Facilities that are no more burdensome than those applied to similar infrastructure deployments.
 - Standards must be published in advance by April 13th

- LFUCG standards
 - Mimic current policy
 - Limit size of installation
 - Limit “pole farms”
 - Encourage replacing existing light pole with wireless/light pole



Other Changes

- Add definitions for Pole, Small Wireless Facility, Support Structure, Tower, and Wireless Facility to make 17C more up-to-date in this 5G age.

- Add new Section 17C-19.2 to provide aesthetic standards for all installations in the right-of-way
 - Including small cells

Questions?



LEXINGTON



Revision dates

- March 5, 2019 - Planning and Public Safety Committee
- March 7, 2019 - Received 1St council reading
- March 21, 2019 - 2nd Council Reading - **Pending**
- April 13, 2019 – Effective Date - **Pending**

- Link to the Draft revisions to 17C:
 - <http://lexington.legistar.com/LegislationDetail.aspx?ID=3873092&GUID=5918748A-E819-45E8-A8D4-E3302A17D832&Options=&Search=>

- Voice any and all comments before or during the March 21, 2019 Council Meeting.



Sections Effected

- Amend SECTION 17C-3 Added new terms and definitions
- Amend SECTION 17C-7(c) Applied new terms
- Amend SECTION 17C-19(e) Applied new terms
- **Create SECTION 17C-19.2 Established Aesthetic Standards (Basically used the current Policy and made it Code.)**
- Amend SECTION 17C-20 Applied new terms
- Amend SECTION 17C-21(1) Applied new terms
- Amend SECTION 17C-22(b) Limit Annual General Permit Fees for Small Wireless Facilities (No effects anticipated.)
- **Create SECTION 17C-29 Establishes standards for work inside Town Branch Commons (TBC)**

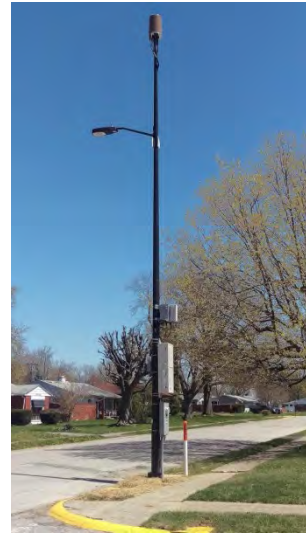
Small Cell Antennas - Current Aesthetics Policy

- Must be permitted whether on a new pole or attached to an existing pole – 3rd party, same evaluation process:
 - Presence of existing above ground utilities?
 - Near or in an existing pole line?
 - How will it be feed with power and fiber?
 - Viewshed /aesthetics are considered.



Small Cell Antennas

- **Attachment to LFUCG owned poles – NOT ALLOWED**
 - Traffic signal pole, utility pole
- **Attachment (replacement) to streetlights – Allowed**
 1. LFUCG does not own the streetlight
 2. LFUCG Traffic Engineering leases the streetlight from KU
 3. KU does installation and maintenance
 4. If approved to attach, then:
 1. Traffic Engineering will authorize KU to remove the streetlight and allow the Third Party to install an equivalent streetlight at the same location through an agreement with LFUCG. (aka decommission)
 2. The agreement transfers ownership, maintenance and any cost of the streetlight to the Third Party.



Small Cell Antennas

- **Process for Streetlight attachment/replacement**
 - Third Party must establish the general Agreement (M.O.U.) with LFUCG which will cover streetlight replacement and long term requirements.
 - **Specific streetlight permitting process:**
 1. Third party submits plan sheets to KU
 2. KU reviews and approves, or sends back for revision
 3. Third party submits KU approved plan to LFUCG Right-of-Way and Traffic Engineering
 4. LFUCG Right-of-Way approves plan and issues permit, and Traffic Engineering issues letter to KU to decommission, or sends back for revision. If sent back, the process would start over at step #1



UPDATE:

- **The M.O.U. has been drafted as a three party agreement:**
 - 1) LFUCG
 - 2) KU
 - 3) Third Party
- **LFUCG Law and KU Law are currently reviewing.**

Town Branch Commons

Go to PDF of Brandi's presentation.

2019-0227_TBC_17CAmmendment-compressed.pdf



Section effected by Town Branch Commons

- Create SECTION 17C-29 Establishes standards for work inside Town Branch Commons
 - Establishes the limits of TBC
 - Establishes that TBC is a unique and distinct park and trail system.
 - Incorporates by reference the “Town Branch Commons Masterplan & Design Standards” into 17C.
 - Establishes acceptable work locations, limits and requirements.
 - Establish that the work inside the TBC shall be approved by the Director of Engineering in accordance with the “Town Branch Commons Masterplan & Design Standards” .

New Portal/Software for Applying for Permits and Management of Permits

- **Accela Right of Way Management** software:
 - Register your organization and add users
 - Submit a permit and attachments
 - Track permit status
 - Citizen View- You and the general public will be able to see permit locations and limited information.
 - Program development is complete.
 - Currently working out contractual agreements
 - Go Live Date – T.B.D.

**Open Discussion, Questions
and
What needs to be addressed at
the next UCCM meeting?**

Agenda for the UCCM
July 24, 2019 at 8:30

- **General Coordination**

- Next meeting is November 14, 2019 at 10:00
- If others input your permit requests - make sure they know how
- Notify us of changes to the proposed work – sooner the better
 - Start/end date
 - Type / location of work
- Design to minimize (or eliminate) installing a new pole.
- Please INITIAL temporary patches with (white) paint, please.
- “I don’t want the money - I just want the restoration”
 - No final restoration installed
 - Crack seal not installed on asphalt joints
 - Striping, pavement marking not installed
 - Improper restoration limits
 - Improper backfill / dressing and seed & straw.
- The number of unrestored permits is growing, what can we do?
- Who is responsible for restoration if it is a utility strike?
- Are you receiving the street paving list, if you need it?

- **KU Underground Transmission Project Update**

- Duct completion limits / Final restoration Paving limits

- **Traffic Engineering – Lane Blockage Requests**

- **Steel Plates – YEAR ROUND NOTIFICATION REQUIRED**

- Every plate, every time - installed and removed
- SteelPlates@lexingtonky.gov

- **Surface Cuts**

- Know if you are working in KYTC or LFUCG RW – use proper restoration
- Results of trial policy to allow concrete to the surface for temporary restoration
- **Policy change:**
 - Streets & Roads inspector must be present during milling and paving
 - Contact Bill Osborne to schedule wosborne@lexingtonky.gov

- **Town Branch Commons (TBC)**

- Brandi Peacher – Project update and recent associated Ordinance 17C revisions

- **Small Cell Antenna - Combined streetlight and antenna locations**

- M.O.U. for decommissioning old and installing new – Effective July 2, 2019
- M.O.U. is (once executed) is continuous; permitting process is per location.





- **Accela Right of Way Management Software**

- Will begin soon; really; I mean it this time

- **Open Discussion and Questions**

UCCM 7-24-2019 SIGN IN SHEET

Utility Companies Representatives






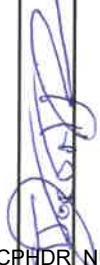
SIGNATURE	NAME		REPRESENTING	EMAIL	PHONE
	Last	First			
	Amato	Robert	City of Nicholasville		
	Ambrose	Frank	AT&T		
	Barksdale	Alvin	KY Wired		
	Blythe	Phillip	Clark Energy		
	Botkins	Kay	Columbia Gas of KY		
	Campbell	William	KU		
	Cavallaro	Carol	Lighttower		
	Citron	Krista	Kentucky American Water		
	Clark	Lisa	Crown Castle		
	Cofield	Art	MetroNet		
	Collins	Brett	Kenucky American Water		
	Combs	Rad	Bluegrass Energy		
	Compton	Richard	KU		
	Conlee	Thomas	Delta Gas		

Utility Companies Representatives






SIGNATURE	NAME		REPRESENTING	EMAIL	PHONE
	Last	First			
	Cooper	James	Columbia Gas of KY		
	Cooper	Judy	Columbia Gas of KY		
	Cottrill	Ben	Wild Telecommunications, Inc		
	Davis	John	NE Woodford County Water District		
	Fawn	Will	Delta Gas		
	Felts	Jon	Kentucky American Water		
	Floyd	Bambi	Kentucky American Water		
	Frame	Clay	AT&T		
	Garvin	Kelly	Kentucky American Water		
	Gooch	Douglas	AGE-Engineering (KU)		
	Hagan	Tim	Kentucky Wired		
	Harlow	Roy	Intermountain Cable, Inc.		
	Hartner	Jon	Black & Veatch		
	Henson	Jason	Windstream		
	Hungate	Bethany	Kentucky American Water		
	Jack	Jennifer	Verizon Wireless		
	Jackson	Jarold	Kentucky American Water		



Utility Companies Representatives

SIGNATURE	NAME		REPRESENTING	EMAIL	PHONE
	Last	First			
	Jackson	Tim	Kentucky Utilities		
	Johnson	Steve	Windstream		
	Kern	Michael	Kentucky Utilities		
	Long	Kevin	Kentucky Utilities		
	Lonobile	Kim	Lightower		
	Mason	Jeremy	Windstream		
	Massie	Patrick	Crown Castle		
	Mcdonie	Ralph	Charter		
	Mitcham	Cole	Kentucky American Water		
	Moran	Rennette	Columbia Gas of KY		
	Mossbarger	Clay	Davis H Elliot		
	Nash	Steven	Kentucky American Water		
	Olson	Adrienne	Lightower		
	Owens	Nichole	Kentucky American Water		
	Prather	Michael	Lightower		
	Pressgrove	Jordan	Kentucky Wired		
	Rosato	Steve	Crown Castle		
	Russell	Joseph	Kentucky Utilities		
	Sanders	Ashley	Windstream		



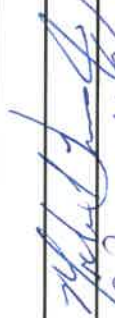


Utility Companies Representatives

SIGNATURE	NAME		REPRESENTING	EMAIL	PHONE
	Last	First			
	Sherman	RJ	Kentucky American Water		
	Sizemore	Ronald L	Charter		
	Smith	John	Lighttower		
	Stallard	Micah	MetroNet		
	Steele	Cody	Columbia Gas of Kentucky		
	Stinnett	Michael	City of Nicholasville		
	Storey	John	MetroNet		
	Thore	Austin	Kentucky American Water		
	Tilly	Adam	Kentucky American Water		
	Trimble	David	Windstream		
	Walker	Tom	Columbia Gas of Kentucky		
	Wells	Tyler	Kentucky American Water		
	Hayes	Will	KU		
	Strickland	Leonard	Verizon		

LFUCG Representatives

SIGNATURE	NAME		REPRESENTING	EMAIL	PHONE
	Last	First			
	Arlidge	Becky	LFUCG-WQ		
<i>Debbie R Barnett</i>	Barnett	Debbie	LFUCG - WQ		
<i>Bryan Douglas</i>	Beasley	Bryan	LFUCG-S&R		
<i>Burton Douglas</i>	Burton	Douglas	LFUCG-ENG		
<i>X R i c e</i>	Chervus	Rodney	LFUCG - WQ		
<i>M G C</i>	Clayborne	Mike	LFUCG-WQ-Storm		
	Confides	James	LFUCG-ENG-RW		
<i>MA</i>	Feibes	Mark	LFUCG-ENG		
<i>Scott Garthee</i>	Garthee	Scott	LFUCG- S&R		
	Hayes	Brian	LFUCG-ENG		
	Hicks	Chester	LFUCG-EQ&PW		
<i>Killens</i>	Killens	Ersula	LFUCG - WQ		
<i>Knapp</i>	Knapp	Brian	LFUCG-ENG-RW		
	Martin	Charles	LFUCG - WQ		
<i>May</i>	May	Vincent	LFUCG-ENG-RW		
	Milligan	George	LFUCG-EQ&PW		
<i>Osborne</i>	Osborne	Bill	LFUCG-S&R		

LFUCG Representatives

SIGNATURE	NAME		REPRESENTING	EMAIL	PHONE
	Last	First			
	Neal	Jeffrey	LFUCG Traffic Eng		
	Osborne	William	LFUCG - S&R		
	Parker	Stephen	LFUCG Traffic Eng		
	Queary	Tim	LFUCG-ENV - Urban Forester		
	Ross	Jimmy	LFUCG - WQ		
	Thomas	Mike	LFUCG - S&R		
	Wallen	Wanda	LFUCG - WQ		
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	Wente	Kevin	LFUCG - PP&D		
	Wood	Dani	LFUCG-Traffic Eng		
	Wray	Jim	LFUCG-ENG-RW		

UTILITY COORDINATING COMMITTEE MEETING

July 24, 2019



Communication and Coordination

Introductions

- Doug Burton, PE, PMP - Director of Engineering/Urban County Engineer
- Brian Knapp, PE, PLS - Division of Engineering, Right of Way Management Manager
- DOE/ RW Management/ Engineering Technicians
 - Vince May
 - Jim Wray
 - James Confides
 - Stephen Drosick – Passed away April 15, 2019

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- Utility Coordinating Committee Meeting (UCCM).
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 - The Committee consists of:
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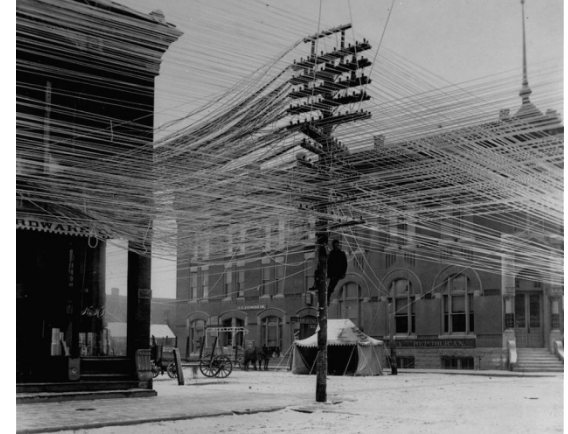
Communication and Coordination

- Utility Coordinating Committee Meeting (UCCM).
 - Tri-yearly meeting schedule
 - Next meeting – November 14; will follow the LFUCG Capital projects Utility Meeting
 - Please provide topics and suggestions

Communication and Coordination

- Permits:
 - AGP (Annual General Permit), Installation, Surface Cut
 - If you allow others (designers, consultants, etc.) to enter your permit on your behalf, make sure they know who, what, when and how
 - For AGP's they need to know your Utility ID#
 - When things change, notify us so we can update the permit
 - If work is cancelled or put on hold
 - Start or end date of construction change
 - Type of work change – i.e. if a bore changes to a street cut, etc.
 - Location of work change
 - Change in amount of disturbance

Communication and Coordination



- Design
 - Minimize new pole installations whenever possible
 - Ground cabinets associated with other pole mounted equipment are not allowed, design to get all equipment on the pole.
 - There is only so much room in the RW- use it wisely, before it is all gone. Especially for underground utilities.

Marking Temporary Surface Cut Patches

- Paint Utility Company initials in cold patch with **white paint**. (We don't want it to be confused with a utility locate marking.)



Communication and Coordination

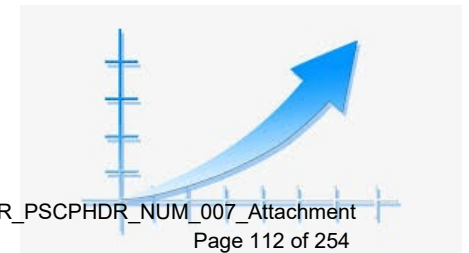
- 17C was revised in October 2017 to establish a fee reassessment for surpassing the 21 day limit for surface cut pavement restorations.
 - Fee reassessment, for incomplete restoration, was intended to encourage compliance, not to raise revenue.
 - “We don’t want your money, we just want the restoration to be fully completed.”
 - Why is a restoration considered incomplete?

Incomplete Restorations

- Surface Cut Permits
 - Temporary restoration not replaced with final restoration
 - Joints not sealed
 - Striping/Pavement marking not restored
 - Improper restoration limits (does not match standard drawings)
- Installation Permits
 - Full panel not replaced (sidewalk)
 - No expansion material (sidewalk and aprons)
 - Poles not removed (all lines not removed)
 - Poor backfill/dressing along sidewalks and back of curb
- AGP- Annual General Permit
 - Not smoothed out, no seed & straw, does not grade to drain

Communication and Coordination

- What we have observed:
 - Some companies are just slow to get to the restorations
 - Some companies don't have the restoration capacity to keep up with their number of surface cuts. {Biggest offenders}
 - Some don't fully complete the restoration.
 - Some do a good job fully completing the restoration on time.
- What we have concluded:
 - Increasing the 21 day limit, would most likely not encourage compliance, because the repeat offenders are normally way past the 21 day limit.
- The reality:
 - The number of unrestored Surface Cuts as well as Installations are increasing!
 - What can LFUCG do to improve this?
 - What can utilities do to improve this?



Communication and Coordination



- Improvements:
 - If you do not have the capacity to restore as fast as you make surface cuts , please increase your restoration capacity.
 - Even though Installation Permits are not re-assessed for being past 21 days, they still need to be restored in a timely manner.
 - Utilities would benefit from increasing the QA/QC of their restoration work.
 - LFUCG is considering new ways to encourage improvement.

Communication and Coordination

- 60 day grace period for Winter Cuts
 - Asphalt Plant Opened April 1st – the 60 day grace period for Winter Cuts ended June 3rd. Fees were reassessed to unrestored surface cuts on June 3rd. And the reoccurring 21 day time limit was reestablished.

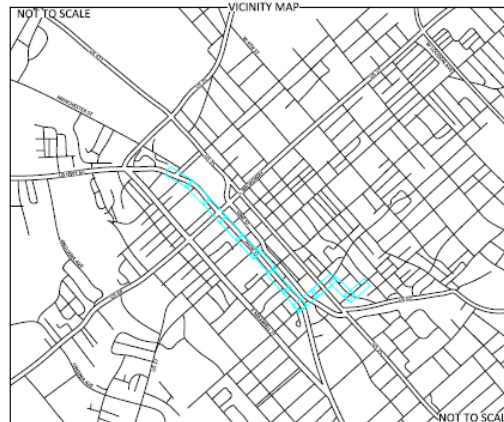
Communication and Coordination

- Random questions:
 - How do you decide who is responsible for the restorations when one utility strikes another?
 - For those who want/ need the LFUCG Paving List, have you been receiving it?
 - KU, have you given more thought to considering making it a requirement that new 3rd Party Attachments be a member of NJUNS?

Project Update

Tim Jackson - KU Sr. Transmission Inspector
Clay Mossbarger – Davis H Elliot Project Manager

KENTUCKY UTILITIES
CONSTRUCTION PLANS
PROJECT# 139696
DOWNTOWN LEXINGTON 69 KV UNDERGROUND TRANSMISSION CORRIDOR
HIGH ST., VINE ST. AND RACE ST.
LEXINGTON, FAYETTE COUNTY, KENTUCKY



CLIENT



KENTUCKY UTILITIES
1 QUALITY ST.
LEXINGTON, KY 40507

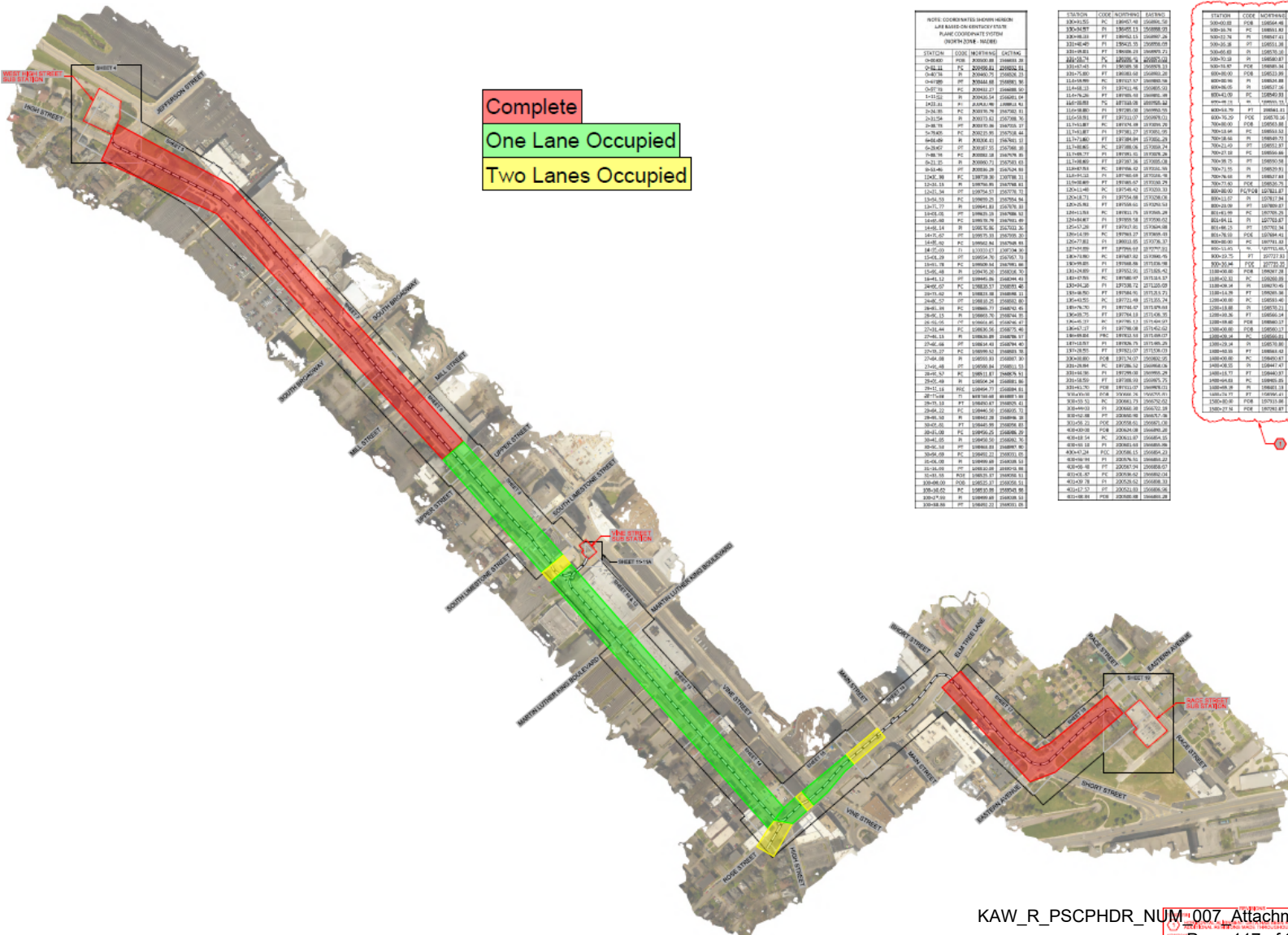


P.O. BOX 204
165 FOSTER LANE
STANFORD, KY 40484
PHONE (606) 365-8362
FAX (606) 365-1097

INDEX OF SHEETS

1	COVER SHEET
2	GENERAL NOTES
3	AREA MAP KEY
4	WEST HIGH STREET SUBSTATION CONNECTION
5-10	HIGH STREET TO VINE STREET CONNECTION
11-11A	VINE STREET SUBSTATION CONNECTION
12-18	VINE STREET TO RACE STREET CONNECTION
19	RACE STREET SUBSTATION CONNECTION
20-21	DUCT BANK SUBSECTION ALIGNMENTS
22-25	PAVING PLAN
26-27	DETAIL SHEETS

Project Update



STATION	CODE	DESCRIPTION	DATE
000-00-00	PC	000000.00	000000.00
000-00-01	PC	000000.01	000000.01
000-00-02	PC	000000.02	000000.02
000-00-03	PC	000000.03	000000.03
000-00-04	PC	000000.04	000000.04
000-00-05	PC	000000.05	000000.05
000-00-06	PC	000000.06	000000.06
000-00-07	PC	000000.07	000000.07
000-00-08	PC	000000.08	000000.08
000-00-09	PC	000000.09	000000.09
000-00-10	PC	000000.10	000000.10

STATION	CODE	DESCRIPTION	DATE
000-00-11	PC	000000.11	000000.11
000-00-12	PC	000000.12	000000.12
000-00-13	PC	000000.13	000000.13
000-00-14	PC	000000.14	000000.14
000-00-15	PC	000000.15	000000.15
000-00-16	PC	000000.16	000000.16
000-00-17	PC	000000.17	000000.17
000-00-18	PC	000000.18	000000.18
000-00-19	PC	000000.19	000000.19
000-00-20	PC	000000.20	000000.20
000-00-21	PC	000000.21	000000.21

STATION	CODE	DESCRIPTION	DATE
000-00-22	PC	000000.22	000000.22
000-00-23	PC	000000.23	000000.23
000-00-24	PC	000000.24	000000.24
000-00-25	PC	000000.25	000000.25
000-00-26	PC	000000.26	000000.26
000-00-27	PC	000000.27	000000.27
000-00-28	PC	000000.28	000000.28
000-00-29	PC	000000.29	000000.29
000-00-30	PC	000000.30	000000.30
000-00-31	PC	000000.31	000000.31
000-00-32	PC	000000.32	000000.32

69KV STATION CORRIDOR
 KENTUCKY UTILITIES
 AREA MAP KEY
 LEXINGTON, FAYETTE COUNTY, KENTUCKY



P.O. BOX 204
 165 FOSTER LANE
 STANFORD, KY 40484
 TEL: (606) 355-1234
 FAX: (606) 355-1097



REVISION(S)
 1/18/2018
 4/26/2018

Project Updates

Any other organizations want to share a project update at this time?



Traffic Engineering

Lane (and sidewalk) Blockage Permits

Division of Traffic Engineering, Phone:(859) 258-3830

E-mail: lane_blockage@lexingtonky.gov

<https://www.lexingtonky.gov/lane-closure-permit>

Lane blockage permit

The issue of lane blockages and/or closures is an important one because of the concern for the safety of pedestrians, the motoring public and the contractors.

This permit can be used for the following:

- block off streets and lanes for construction, installations and repairs
- crane work space
- equipment
- utility projects
- placing a dumpster
- POD
- portable storage container
- large trash receptacle on the street

There is **no charge** for this permit and it is **mandatory** when blocking any portion of a street within Fayette County.

[Apply Online](#) >

[Apply with PDF](#) >

Contact

Traffic Engineering

101 E. Vine St.
Lexington, KY

Hours:

Monday – Friday: 8 a.m. – 5 p.m.

[Email us](#)

[\(859\) 425-2255](tel:(859)425-2255)

[@LexWrecks](#)



Steel Plates



- **YEAR ROUND notification of all steel plates** placed in public Right of Way is required by email to Streets and Roads via: SteelPlates@lexingtonky.gov
- Notification email shall include:
 - 24 hour point of contact; name, company name, phone, and email address
 - Who is the work for?
 - Location, lane, and duration of plate placement.
- Also send email notification once the plate has been removed.



Steel Plates

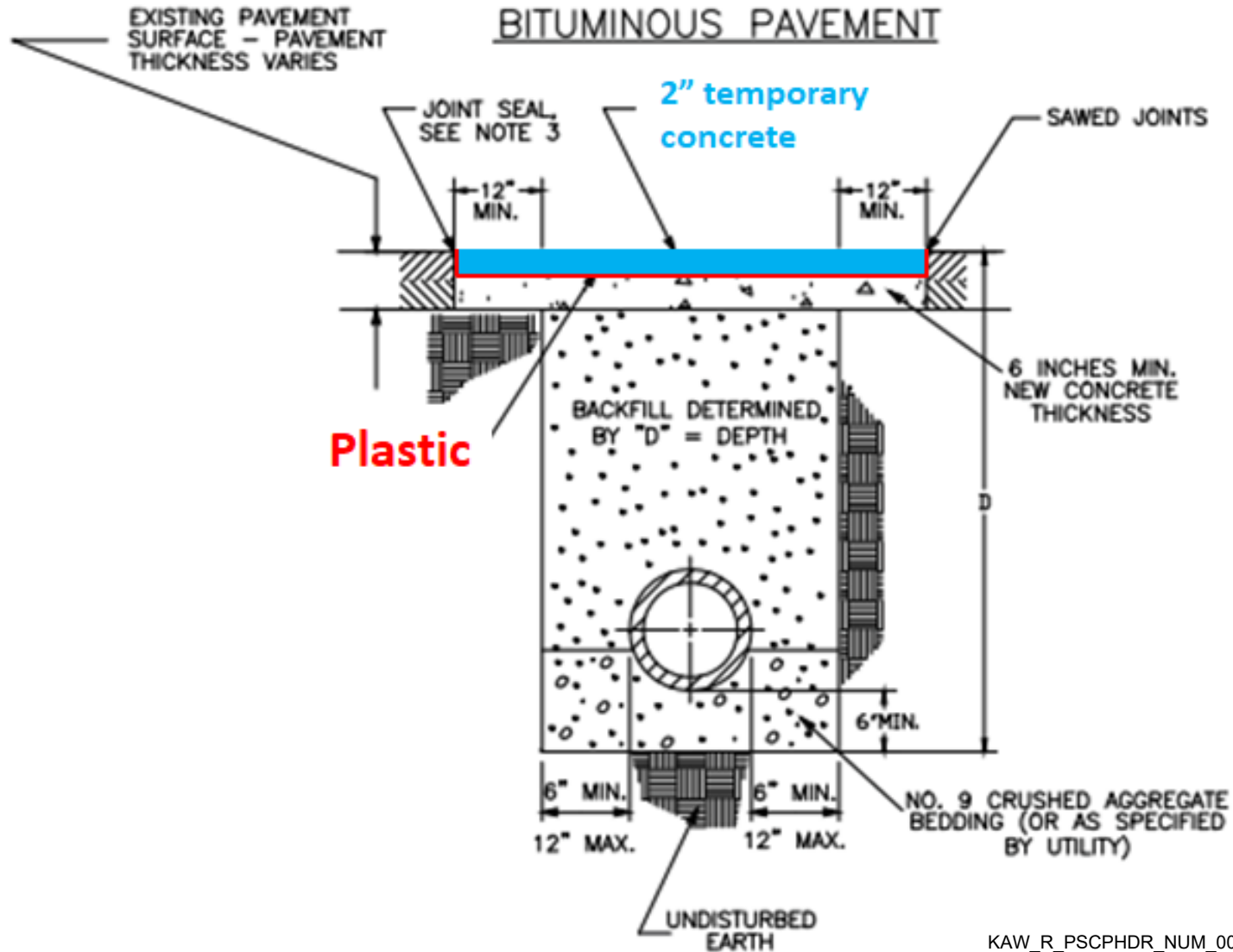


Steel Plate GIS map

Surface Cuts

- Know if you are working in KYTC or LFUCG RW – use proper restoration
- Results of trial policy to allow concrete to the surface (separated by plastic) for temporary restoration
 - The concrete held up well.
 - Need to remove the concrete ASAP is it is a temporary restoration only.
 - Make sure it is 2” thick (minimum)
 - S&R was not contacted to inspect prior to placement nor prior to removal
- **Policy change:**
 - Streets & Roads inspector must be present during all milling and paving operations
 - Contact Bill Osborne to schedule wosborne@lexingtonky.gov

Temporary Restoration with concrete to surface (slide 1 of 3)



Temporary Restoration of Surface Cuts on LFUCG Roads (slide 2 of 3)

- Concrete to the surface is now allowed with the following requirements:
 1. Contractor to notify Streets and Roads in advance of the concrete pour so an inspection can be made.
 1. However, the inspection is not mandatory and the contractor may proceed in good faith should an LFUCG representative not be available.
 2. Top 2" (minimum) of concrete shall be separated from the 6" concrete cap by a layer of plastic.
 3. Top surface of concrete shall be flush with the surrounding roadway and have a relatively smooth finish. Mark it with your initials.

Temporary Restoration of Surface Cuts on LFUCG Roads (slide 3 of 3)

Continued:

4. Contractor to notify Streets and Roads in advance of the milling operation (or removal operation) for an inspection.
 1. A 2" minimum mill is required.
 5. Tack coat shall be applied between the 6" concrete cap and asphalt surface.
 6. While asphalt plants are **open**, surface concrete may only remain for the duration of the approved permit.
 7. While asphalt plants are **closed**, surface concrete may remain until 60 days after the plant reopens.
-
- Results of the “trial policy” will be evaluated.

Town Branch Commons

Go to PDF of Brandi's presentation.

2019-0227_TBC_17CAmmendment-compressed.pdf



Section effected by Town Branch Commons

- Create SECTION 17C-29 Establishes standards for work inside Town Branch Commons
 - Establishes the limits of TBC
 - Establishes that TBC is a unique and distinct park and trail system.
 - Incorporates by reference the “Town Branch Commons Masterplan & Design Standards” into 17C.
 - Establishes acceptable work locations, limits and requirements.
 - Establish that the work inside the TBC shall be approved by the Director of Engineering in accordance with the “Town Branch Commons Masterplan & Design Standards” .

Small Cell Antennas



- **In order to minimize new poles, LFUCG has strongly encouraged Small Cell Antennas to be combined with streetlights.**
- **Existing Street light will not support the antenna attachment so the existing streetlight must be replaced.**
 - LFUCG does not own the streetlights, but leases them from KU.
 - For replacement to happen (in general):
 1. Traffic Engineering will authorize KU to remove the streetlight and allow the Third Party to install an equivalent streetlight at the same location through an agreement with LFUCG. (aka decommission process)
 2. The agreement (M.O.U.) transfers ownership, maintenance and any cost of the new combined streetlight to the Third Party.

Small Cell Antennas

- **Process for Streetlight attachment/replacement**



- **The “General” M.O.U. was created and became effective July 2, 2019; per Resolution 352-2019.**
 - In short, the third party is responsible for all costs of the replacement, must provide electricity to the street light and must maintain it at all times. Additionally the replacement streetlight must be “substantially-similar” to the existing streetlight.
 - The third party must execute the “General” M.O.U. by signing and then the Council Clerk will record the document.
 - The M.O.U. is not specific to a location, but addresses the general procedure and requirements to install and maintain a combined small cell antenna and streetlight.
 - The M.O.U. is continuous (does not need to be renewed).

Small Cell Antennas

- **Process for Streetlight attachment/replacement**



Specific streetlight permitting process (after M.O. U. is executed):

1. Third party submits plan sheets to KU identify specific streetlight to replace.
2. KU reviews and approves if power can be supplied at this location; or sends back for revision.
3. Third party submits KU approved plan to LFUCG Right-of-Way and Traffic Engineering.
4. LFUCG Right-of-Way approves plan and issues permit, and Traffic Engineering issues a letter to KU to decommission; or sends back for revision. If sent back, the process would start over at step #1
5. KU removes the existing streetlight and the third party installs, owns and maintains the new combined streetlight and small cell antenna per requirements of the M.O.U.

New Portal/Software for Applying for Permits and Management of Permits

- Accela Right of Way Management
 - Switch over
 - Software development complete
 - Hardware acquired
 - Contracts signed
 - Go live date will be soon
 - Will switch Columbia Gas first to do a live test, and then switch all other organizations at the same time afterwards.
 - PDF of approved permit will be automatically emailed to applicant, no hard copy sent.
 - Applicant shall be Responsible for checking Accela for all permit status changes. You will be able to view but not edit the permit information.
 - Citizen View- General public will be able to see permit locations and limited information.
 - Will finish existing permits in the current database (i.e. they will not be transferred into Accela)

Open Discussion and Questions



Agenda for the UCCM
November 14, 2019 at 10:00

- **General Coordination**
 - Next meeting is March 12, 2020 at 10:00
 - Asphalt plant to close for winter on December 20th (estimated)
 - Catch up on concrete work during winter when weather allows
 - INITIAL all temporary patches with (white) paint.
 - Being proactive is better than being “Complaint Driven”.
 - “Done” VS “complete”- be clear
 - The RW permit is issued to the Utility Company, not the Contractor.
 - If the restoration is to be done by someone other than the permittee –Get it in Writing
 - “Sign it” or “Tag it” when leaving equipment, signs, spools etc. in RW
 - Pre-scheduled work – notify us if the start date changes.
 - Sidewalk ramp restoral
 - Low wire minimum clearance

- **Steel Plates – YEAR ROUND NOTIFICATION REQUIRED – Use the FORM**
 - Every plate, every time - installed and removed
 - SteelPlates@lexingtonky.gov
 - <https://www.lexingtonky.gov/steel-plates-form>

- **Installation Permits**
 - Discussion of changing ordinance to follow the (21 day) cycle of fee reassessment.

- **Traffic Engineering – Lane Blockage Requests**

- **Surface Cuts**
 - Large paving areas (or small area if you have concerns):
 - Streets & Roads inspector must be present during milling and paving
 - Contact Bill Osborne to schedule wosborne@lexingtonky.gov
 - Concrete to the surface (separated by plastic) for temporary restoration is allowed during winter months.
 - June 2019 Revised Standard Drawing 201-1, 2, 3 and 4
 - Restoration of Street cuts made inside existing Street cuts
 - Flowable fill is not a substitute for concrete
 - UPM Cold Patch has good results, does yours?
 - 2 year performance warranty begins when ALL work is done.

- **Emergency Work**
 - A late request to you is not always an emergency
 - When was the “Leak” first discovered?
 - Who is responsible for restoration if there is a utility strike? - Get it in writing.

- **Project Updates – Anyone want to share?**

- **Small Cell Antenna - Combined streetlight and antenna locations**
 - M.O.U. for decommissioning old and installing new – Effective July 2, 2019
 - Design to eliminate (or minimize) installing a new pole.

- **Accela Right of Way Management Software**

- **Open Discussion and Questions**

**UCCM 11-14-2019
SIGN IN SHEET**

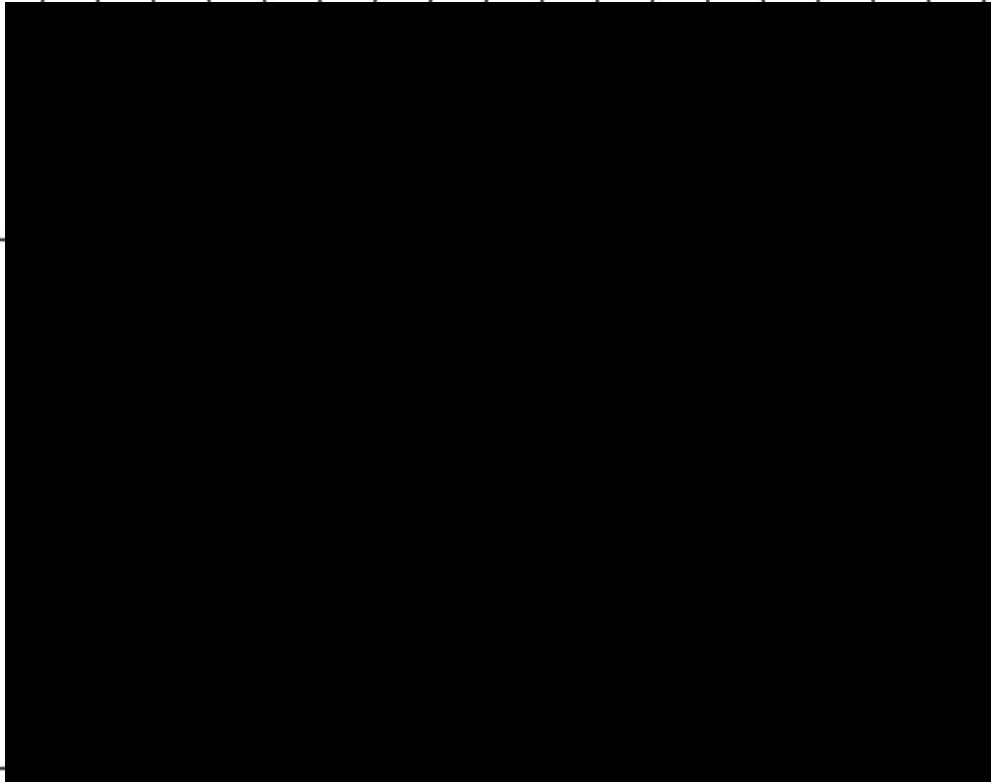
Utility Companies Representatives

SIGNATURE	NAME		REPRESENTING	EMAIL	PHONE
	Last	First			
	Amato	Robert	City of Nicholasville		
	Ambrose	Frank	AT&T		
	Bruce	Babbitt	Windstream		
	Barksdale	Kevin	KY Wired		
	Blythe	Phillip	Clark Energy		
	Botkins	Kay	Columbia Gas of KY		
	Campbell	William	KU		
	Cavallaro	Carol	Lighttower		
	Citron	Krista	Kentucky American Water		
	Clark	Lisa	Crown Castle		
	Cofield	Art	MetroNet		
	Combs	Rad	Bluegrass Energy		
	Compton	Richard	KU		
	Conlee	Thomas	Delta Gas		
	Elliott	Harold	KU		
	Wined	Gary	KY Wined		



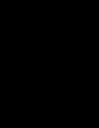

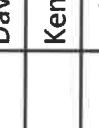



Utility Companies Representatives

SIGNATURE	NAME		REPRESENTING	EMAIL	PHONE
	Last	First			
	Cooper	James	Columbia Gas of KY		
	Cooper	Judy	Columbia Gas of KY		
	Cottrill	Ben	Wild Telecommunications, Inc		
	Davis	John	NE Woodford County Water District		
	Fawn	Will	Delta Gas		
	Felts	Jon	Kentucky American Water		
	Floyd	Bambi	Kentucky American Water		
	Frame	Clay	AT&T		
	Garvin	Kelly	Kentucky American Water		
	Gooch	Douglas	AGE-Engineering (KU)		
	Hagan	Tim	Kentucky Wired		
	Harlow	Roy	Intermountain Cable, Inc.		
	Hartner	Jon	Black & Veatch		
	Hayes	Will	KU		
	Henson	Jason	Windstream		
	Hungate	Bethany	Kentucky American Water		
	Jackson	Jarold	Kentucky American Water		



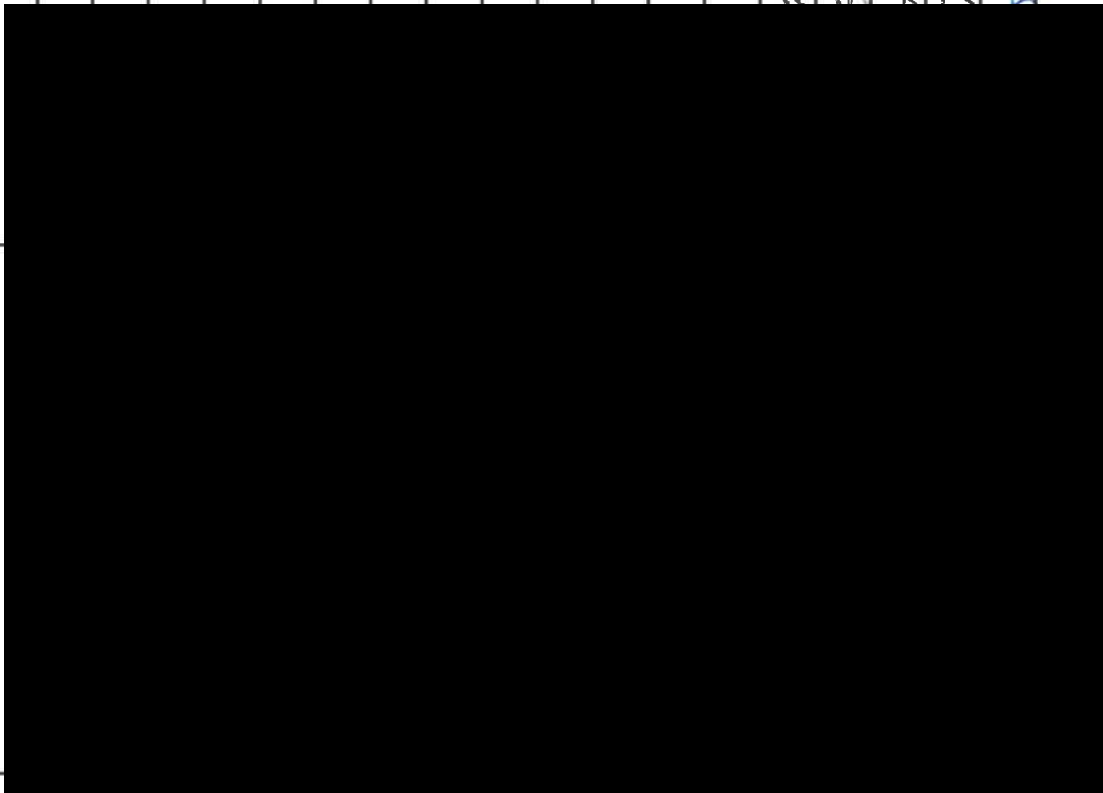
Jarold Jackson

Utility Companies Representatives




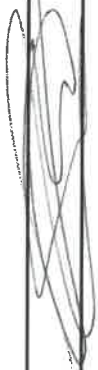









SIGNATURE	NAME		REPRESENTING	EMAIL	PHONE
	Last	First			
	Jackson	Tim	Kentucky Utilities		
	Johnson	Steve	Windstream		
	Kern	Michael	Kentucky Utilities		
	Long	Kevin	Kentucky Utilities		
	Lonobile	Kim	Lighttower		
	Mason	Jeremy	Windstream		
	Massie	Patrick	Crown Castle		
	Mcdonie	Ralph	Charter		
	Mitcham	Cole	Kentucky American Water		
	Moran	Rennette	Columbia Gas of KY		
	Mossbarger	Clay	Davis H Elliot		
	Nash	Steven	Kentucky American Water		
	Olson	Adrienne	Lighttower		
	Owens	Nichole	Kentucky-American Water		
	Prather	Michael	Lighttower		
	Pressgrove	Jordan	Kentucky Wired		
	Rosato	Steve	Crown Castle		
	Russell	Joseph	Kentucky Utilities		
	Dailley	Joe	CenturyLink Comm.		
	Whitman	William	American Water		

Utility Companies Representatives

SIGNATURE	NAME		REPRESENTING	EMAIL	PHONE
	Last	First			
	Sherman	RJ	Kentucky American Water		
	Sizemore	Ronald L	Charter		
	Smith	John	Lighttower		
	Stallard	Micah	MetroNet		
	Steele	Cody	Columbia Gas of Kentucky		
	Stinnett	Michael	City of Nicholasville		
	Storey	John	MetroNet		
	Strickland	Leonard	Verizon Wireless		
<i>Cherise</i>	Thore	Austin	Kentucky American Water		
	Tilly	Adam	Kentucky American Water		
	Trimble	David	Windstream		
	Walker	Tom	Columbia Gas of Kentucky		
	Wells	Tyler	Kentucky American Water		
<i>Fritz</i>	<i>DAVE</i>	<i>DAVE</i>	<i>METRONET</i>		
<i>Curtis</i>	<i>Ray</i>	<i>Ray</i>	<i>METRONET</i>		
<i>Blafus</i>	<i>Mike</i>	<i>Mike</i>	<i>MetroNet</i>		
<i>Hall</i>	<i>Russ</i>	<i>Russ</i>	<i>MetroNet</i>		
<i>Calderon</i>	<i>Miguel</i>	<i>Miguel</i>	<i>AT&T</i>		
<i>Augustine</i>	<i>Brian</i>	<i>Brian</i>	<i>Verizon</i>		



LFUCG Representatives

SIGNATURE	NAME		REPRESENTING	EMAIL	PHONE
	Last	First			
	Albright	Nancy	LFUCG-EQPW		
	Arledge	Becky	LFUCG-WQ		
	Barnett	Debbie	LFUCG - WQ		
	Beasley	Bryan	LFUCG-S&R		
	Burton	Douglas	LFUCG-ENG		
	Chervus	Rodney	LFUCG - WQ		
	Clayborne	Mike	LFUCG-WQ-Storm		
	Confides	James	LFUCG-ENG-RW		
	Feibes	Mark	LFUCG-ENG		
	Garthee	Scott	LFUCG- S&R		
	Hayes	Brian	LFUCG-ENG		
	Hicks	Chester	LFUCG-EQ&PW		
	Killens	Ersula	LFUCG - WQ		
	Knapp	Brian	LFUCG-ENG-RW		
	Martin	Charles	LFUCG - WQ		
	May	Vincent	LFUCG-ENG-RW		
	Milligan	George	LFUCG-EQ&PW		

LFUCG Representatives

SIGNATURE	NAME		REPRESENTING	EMAIL	PHONE
	Last	First			
	Neal	Jeffrey	LFUCG Traffic Eng		
	Osborne	William	LFUCG - S&R		
	Parker	Stephen	LFUCG Traffic Eng		
	Queary	Tim	LFUCG-ENV - Urban Forester		
	Ross	Jimmy	LFUCG - WQ		
	Thomas	Mike	LFUCG - S&R		
	Wallen	Wanda	LFUCG - WQ		
	Wallingford	Darrin	LFUCG - ENG		
	Watkins	Russ	LFUCG-ENG-RW		
	Wente	Kevin	LFUCG - PP&D		
	Wood	Dani	LFUCG-Traffic Eng		
	Wray	Jim	LFUCG-ENG-RW		

UTILITY COORDINATING COMMITTEE MEETING

November 14, 2019



Introductions

- Brian Knapp, PE, PLS - Division of Engineering,
Right of Way Management Manager

- DOE/ RW Management/ Engineering Technicians
 - Vince May
 - Jim Wray
 - James Confides
 - Russ Watkins

General Coordination

- Utility Coordinating Committee Meeting (UCCM).
 - Tri-yearly meeting schedule in 2020 (March 12th, July 9th and November 12th)
 - **10:00- following the LFUCG Capital projects Utility Meeting**
 - **Is there a need to adjust the meeting schedule?**
- Registration packets will be sent out in January 2020 – to be returned in March.

General Coordination

- Utility Coordinating Committee Meeting (UCCM)
 - Ordinance 17C -7(h) establishes us as a Committee.
 - Need more utility involvement, not just LFUCG policy. – **Speak up today!**



General Coordination

- Winter is coming!
- **Asphalt Plant to close for the winter season, beginning December 20th, estimated.**
- **Please plan ahead to have as much final asphalt restoration done as possible!**



General Coordination

- Once the asphalt plant has closed for winter, then the fee reassessment of surface cuts will freeze. The fee reassessment will resume 60 days after the Asphalt plant reopens in spring, probably in April.
- This is a great time to get caught up on concrete work!



General Coordination

- REPEAT -This is a great time to get caught up on concrete work! - SERIOUSLY



General Coordination

INITIAL all Temporary Surface Cut Patches

- Paint Utility Company initials in cold patch with **white paint**. (We don't want it to be confused with a utility locate marking.)



General Coordination

- Random issues:
 - Being proactive is better than being “Complaint Driven”.
 - “Done” VS “complete” - be clear
 - The RW permit is issued to the Utility Company, not the Contractor. – Insure the information get to the contractor.
 - If the restoration is to be done by someone other than the permittee - GET IT IN WRITING.
 - “Sign it” or “Tag it” when leaving equipment, signs, spools etc. in RW
 - Pre-scheduled work – notify us if the start date changes.
 - Sidewalk ramps – no partial replacements – must bring to ADA compliance.
 - Low wire minimum clearance. (The 13’ 2” garbage trucks are hitting wires!)


General Coordination

- Minimum vertical clearance of local streets and roads:

Application Guide for 2017 NESC Table 232-1 - see NESC for details and exceptions

Trucks Over 8 Feet*

Grade B - for limited access highway
 Grade C - over other areas subject to truck traffic
 Table 242-1



4 ft - Rule 231A

Vertical Clearance at Largest Vertical Sag Table 232-1

Neutral or Comm.	Grounded Span Guy	TPX	7.2/12.5 kV	14.4/25 kV	19.9/35 kV
15.5 ft		16.0 ft	18.5 ft		

**DOT may require greater clearance*



NESC SECTION 232 REQUIREMENTS (NESC 2017)

Clearance For Voltages Greater Than 22kv

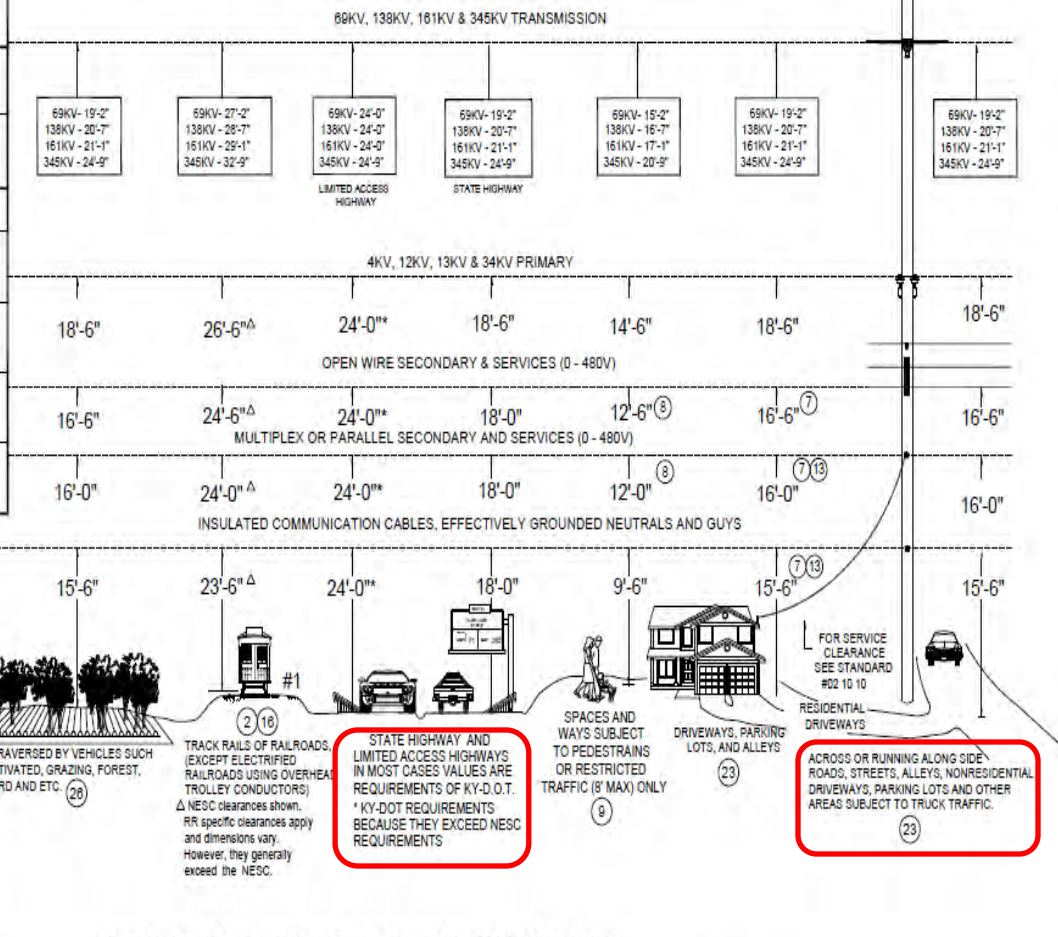
PLEASE CONTACT THE TRANSMISSION DEPARTMENT TO VERIFY ALL CLEARANCES ON ANY JOBS THAT CONTAIN TRANSMISSION POLES/LINES.

Horizontal and vertical clearances must be increased by the following amount for voltages greater than 22kv phase to ground. Adders are based on 5% over nominal system voltage with the adder being .4" per kv for phase to ground voltages greater than 22kv. Example: Adder For 66kv: Maximum Phase-Ground Voltage: (66kv X 1.05) / 3 = 41.83kv
Clearance Adder: (41.83 -22kv) X .4"KV = 7.83" (ROUND TO 8")

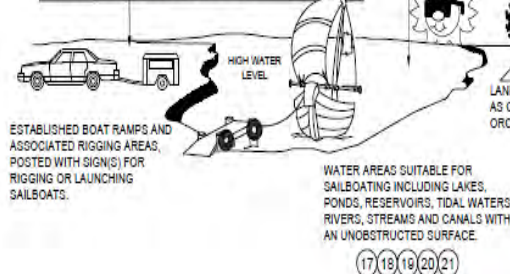
CLEARANCE OVER ALL WATER AREAS:
BOTH ACCESSIBLE AND UNACCESSIBLE TO SAILBOATS AND CLEARANCES OVER AREAS POSTED FOR RIGGING & LAUNCHING SAILBOATS.
ALL CLEARANCES ARE ABOVE THE HIGHEST OBTAINABLE WATER LEVEL.

WATER AREAS NOT SUITABLE FOR SAILBOATING OR WHERE SAILBOATING IS PROHIBITED					
WATER SIZE	COMM. NEUT GND GUYS	MULTIPLY SECONDARY	OPEN WIRE SECONDARY	4, 12 13 & 34KV	TRANSMISSION
ALL SIZE	14'-0"	14'-6"	15'-0"	17'-0"	69KV: 17'-8" 138KV: 19'-1" 161KV: 19'-7" 345KV: 23'-3"

WATER AREAS SUITABLE FOR SAILBOATING INCLUDING LAKES, PONDS, RESERVOIRS, TITIAL WATERS, RIVERS, STREAMS, AND CANALS WITH AN UNOBSTRUCTED SURFACE					
0 TO 20 ACRES	17'-6"	18'-0"	18'-6"	20'-6"	69KV: 21'-2" 138KV: 22'-7" 161KV: 23'-1" 345KV: 26'-9"
21 TO 200 ACRES	25'-6"	26'-0"	26'-6"	28'-6"	69KV: 29'-2" 138KV: 30'-7" 161KV: 31'-1" 345KV: 34'-9"
201 TO 2000 ACRES	31'-6"	32'-0"	32'-6"	34'-6"	69KV: 35'-2" 138KV: 36'-7" 161KV: 37'-1" 345KV: 40'-9"
OVER 2000 ACRES	37'-6"	38'-0"	38'-6"	40'-6"	69KV: 41'-2" 138KV: 42'-7" 161KV: 43'-1" 345KV: 46'-9"



FOR PUBLIC OR PRIVATE LAND AND WATER AREAS POSTED FOR RIGGING OR LAUNCHING SAILBOATS, USE THE APPROPRIATE VALUES UNDER "WATER AREAS SUBJECT TO SAILBOATING" AND ADD 5'-0". ALSO ADD 5'-0" TO TABLE VALUES FOR SHORELINES WHERE SAILBOATS CAN BE BEACHED OR PARKING AREAS SERVING BOAT RAMPS. (SEE NESC)



SEE PAGE 2 OF THIS STANDARD FOR TABLE 232-1 FOOT NOTES

(VOLTAGES ARE PHASE TO GROUND FOR EFFECTIVELY GROUNDED CIRCUITS AND THOSE OTHER CIRCUITS WHERE ALL GROUND FAULTS ARE CLEARED BY PROMPTLY DE-ENERGIZING THE FAULTED SECTION, BOTH INITIALLY AND FOLLOWING SUBSEQUENT BREAKER OPERATIONS.)

2) For wires, conductors, or cables crossing over mine, logging, and similar railways that handle only cars lower than standard freight cars, the clearance may be reduced by an amount equal to the difference in height between the highest loaded car handled and 20 ft, but the clearance shall not be reduced below that required for street crossings.

4) In communities where 21 ft has been established, this clearance may be continued if carefully maintained. The elevation of the contact conductor should be the same in the crossing and next adjacent spans. (See Rule 225D2 for conditions that must be met where uniform height above rail is impractical.)

5) In communities where 16 ft has been established for trolley and electrified railroad contact conductors 0 to 750 V to ground, or 18 ft for trolley and electrified railroad contact conductors exceeding 750 V, or where local conditions make it impractical to obtain the clearance given in the table, these reduced clearances may be used if carefully maintained.

7) Where vehicles exceeding 8 ft in height are not normally encountered nor reasonably anticipated, service drop(s) clearances over residential driveways only may be reduced to the following:

	(feet)
(a) Insulated supply service drops limited to 300 V to ground	12.5
(b) Insulated drip loops of supply service drops limited to 300 V to ground	10.5
(c) Supply service drops limited to 150 V to ground and meeting Rules 230C1 or 230C3	12.0
(d) Drip loops only of service drops limited to 150 V to ground and meeting Rule 230C1 or 230C3	10.0
(e) Insulated communication service drops	11.5

8) These clearances values for service drops to residential buildings only may be reduced to the following:

	(feet)
(a) Insulated supply service drops limited to 300 V to ground	10.5
(b) Insulated drip loops of supply service drops limited to 300 V to ground	10.5
(c) Supply service drops limited to 150 V to ground and meeting Rules 230C3	10.0
(d) Drip loops only of supply service drops limited to 150 V to ground and meeting Rule 230C3	10.0

9) Spaces and ways subject to pedestrians or restricted traffic only are those areas where riders on horses or other large animals, vehicles, or other mobile units exceeding a total height of 8 ft are prohibited by regulation or permanent terrain configurations, or are otherwise not normally encountered nor reasonably anticipated.

13) Where this construction crosses over or runs along (a) alleys, non-residential driveways, or parking lots not subject to truck traffic, or (b) residential driveways, this clearance may be reduced to 15 ft.

16) Adjacent to tunnels and overhead bridges that restrict the height of loaded rail cars to less than 20 ft, these clearances may be reduced by the difference between the highest loaded rail car handled and 20 ft, if mutually agreed to by the parties at interest.

17) For controlled impoundments, the surface area and corresponding clearances shall be based upon the design high-water level.

18) For uncontrolled water flow areas, the surface area shall be that enclosed by its annual high-water mark. Clearances shall be based on the normal flood level; if available, the 10-year flood level may be assumed as the normal flood level.

19) The clearance over rivers, streams, and canals shall be based upon the largest surface area of any 1-mi- segment that includes the crossing. The clearance over a canal, river, or stream normally used to provide access for sailboats to a larger body of water shall be the same as that required for the larger body of water.

20) Where a bridge or other overwater obstruction restricts vessel height to less than the applicable reference height given in Table 232-3, the required clearance may be reduced by the difference between the reference height and the overwater obstruction height for the area of the body of water over which the line crosses, except that the reduced clearance shall be not less than that required for the surface area on the lin-crossing side of the obstruction.

21) Where the US Army Corps of Engineers, or the state, or surrogate thereof has issued a crossing permit, clearances of that permit shall govern.

23) For the purpose of this Rule, trucks are defined as any vehicle exceeding 8 ft in height. Areas not subject to truck traffic are areas where truck traffic is not normally encountered nor reasonably anticipated.

28) When designing a line to accommodate oversized vehicles, these clearance values shall be increased by the difference between the known height of the oversized vehicle and 14 ft.

SEE RULES 232B1, 232C1A, AND 232D4.)

Rule 232B. Clearance of Wires, Conductors, Cables, Equipment, and Support Arms Mounted on Supporting Structures

f. Clearance to Wires, Conductors, and Cables - The vertical clearance of wires, conductors, and cables above ground in generally accessible places, roadway, rail, or water surface. Shall be not less than that shown in Table 232-1.

****NOTE:** The printed copy of NESC 2017 incorrectly references Table 230-1 in Rule 232B1. It has been confirmed with the NESC that the table referenced should have been Table 232-1.**

Rule 232C. Additional Clearances for Wires, Conductors, Cables, and Unguarded Rigid Live Parts of Equipment Greater clearances than specified by Rule 232B shall be provided where required by Rule 232C1.

f. Voltages Exceeding 22 kV

a. For voltages between 22 and 470 kV, the clearance specified in Rule 232B1 (Table 232-1) or Rule 232B2 (Table 232-2) shall be increased at the rate of 10 mm (0.4 in) per kilovolt in excess of 22 kV. For voltages exceeding 470 kV, the clearance shall be determined by the method given in Rule 232D. All clearances for lines over 50 kV shall be based on the maximum operating voltage.

EXCEPTION: For voltages exceeding 98 kV ac to ground or 139 kV dc to ground, clearances less than those required above are permitted for systems with known maximum switching-surge factors (see Rule 232D).

Rule 232D. Alternate Clearances for Voltages Exceeding 98 kV AC to Ground or 139 kV DC to Ground.

4. Limit.

The alternate clearance shall be not less than the clearance given in Tables 232-1 or 232-2 computed for 98 kV ac to ground in accordance with Rule 232C.

Steel Plates

- Strongly encouraged year round!





Steel Plates



- **YEAR ROUND notification of all steel plates** placed in public Right of Way is required.
- Notify Streets and Roads by:
 - 1) Fill out and submit “Steel Plate Information Form” online at: <https://www.lexingtonky.gov/steel-plates-form>OR
 - 2) Email the completed “Steel Plate Information Form” to: SteelPlates@lexingtonky.gov
- Submit form as notification of plates **INSTALLED**.
- Send email as notification of plates **REMOVED**.

Steel plates form

Use this form to submit information regarding steel plate usage on city streets and roads.

Contact

Streets & Roads

1555 Old Frankfort Pike
Lexington, KY

Hours:

Monday – Friday: 7:30 a.m. – 4 p.m.

 (859) 258-3451

Location address *

Ex. 100 E. Main St.

Location specifics

Ex. in NB lane, in turn lane, in far left lane, in entrance apron, across sidewalk, etc.

Utility or project owner name *

Ex. Kentucky American Water

Contractor name *

Ex. ABC Construction

24 hour contact name *

First Name

Last Name

24 hour contact phone number *

Ex. (859) 425-2255

24 hour contact email address

ex. contact@example.com

How many plates? *

Please put in one or more plates. Ex. 7

Plate placement date *

Nov ▾ 13 ▾ 2019 ▾ 

Expected removal date *

Nov ▾ 13 ▾ 2019 ▾ 

Submit Form

Steel Plate Information



Address or intersection: _____

Location specifics (examples: in NB lane, in turn lane, in far left lane, in entrance apron, across sidewalk, etc.):

Utility/Project Owner name: _____

Contractor Name: _____

24 hr. Contact name: _____

24 hr. Contact phone number: _____

24 hr. Contact email: _____

How many plates: _____

Plate placement date: _____

Plate removal date (expected): _____

You can also fill out the following information at: <https://www.lexingtonky.gov/steel-plates-form>

Installation Permits

- 17C was revised in October 2017 to establish a fee reassessment for surpassing the 21 day limit for pavement restorations of **Surface Cut Permits only**.
 - Fee reassessment, for incomplete restoration, was intended to encourage compliance, not to raise revenue.
- **Installation Permits**, which include cutting 1) curbs 2) sidewalks, 3) driveway aprons and 4) removing poles etc.; have been **slow to get restored**.

Discussions of how to get these restoration done in a timely manner include fee reassessment on a (21 day) cycle.

Thoughts please!

Lane Blockage Permits - Sidewalks too

Division of Traffic Engineering, Phone:(859) 258-3830

E-mail: lane_blockage@lexingtonky.gov

<https://www.lexingtonky.gov/lane-closure-permit>

Lane blockage permit

The issue of lane blockages and/or closures is an important one because of the concern for the safety of pedestrians, the motoring public and the contractors.

This permit can be used for the following:

- block off streets and lanes for construction, installations and repairs
- crane work space
- equipment
- utility projects
- placing a dumpster
- POD
- portable storage container
- large trash receptacle on the street

There is **no charge** for this permit and it is **mandatory** when blocking any portion of a street within Fayette County.

Apply Online



Apply with PDF



Contact

Traffic Engineering

101 E. Vine St.
Lexington, KY

Hours:

Monday – Friday: 8 a.m. – 5 p.m.

Email us

(859) 425-2255

@LexWrecks

Surface Cuts

- Know if you are working in KYTC or LFUCG RW – use proper restoration
- Results of summer trial policy to allow concrete to the surface (separated by plastic) for temporary restoration **was successful**
 - The concrete held up well.
 - Need to remove the concrete ASAP is it is a temporary restoration only.
 - Make sure it is 2” thick (minimum)
 - S&R was not contacted to inspect prior to placement nor prior to removal
- **Recent Policy change:**
 - Streets & Roads inspector must be present during all large milling and paving operations (ask if you are unsure of “what is large”)
 - Contact Bill Osborne to schedule wosborne@lexingtonky.gov

KYTC RW in Fayette County

After numerous protracted discussions between LFUCG and KYTC, it has been decided that all construction activities occurring within any State ROW located in Fayette County shall be jointly permitted by both the State and by LFUCG in accordance with Section 17C of the Code of Ordinances. The only exceptions to this shall be:

1. New Circle Road (Route 4) in its entirety including all on and off ramps and any other similar appurtenances.
2. Interstate 64 in its entirety including all on and off ramps and any other similar appurtenances.
3. Interstate 75 in its entirety including all on and off ramps and any other similar appurtenances.

Summary:

- All KYTC routes in Fayette County shall be permitted by both KYTC and LFUCG, except New Circle Road, Interstate 64 and Interstate 75 and all associated on and off ramps of each route.
- Get the KYTC permit first, then the LFUCG permit.



Kentucky Transportation Cabinet

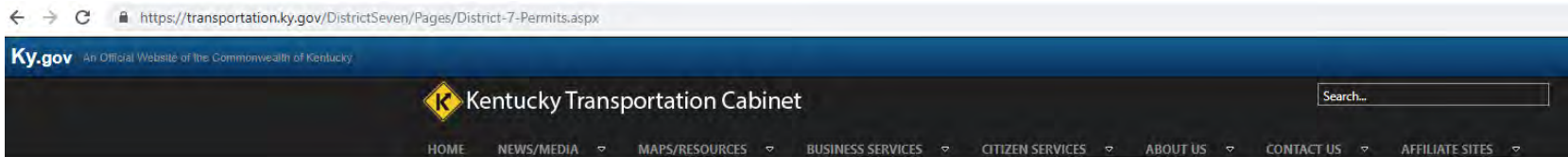


LEXINGTON

KYTC RW in Fayette County

- Robert Baker is the contact for KYTC, District 7

<https://transportation.ky.gov/DistrictSeven/Pages/District-7-Permits.aspx>



District 7 Permits

For Private Driveway Permits:

1 Completed Permit Application ([Form TC 99-1A](#))

Note: Proposed entrance location is to be marked in the field by the applicant.

For Utility Permits:

1 Completed Permit Application ([Form TC 99-1A](#))

2 Paper Copies of Attachments (Utility Plans, Drawings, Traffic Control Plan, etc.)

An electronic copy (.PDF preferred) of the Permit Application and Attachments. Send Electronic copy to Randi.Feltner@ky.gov.

For Commercial Permits:

1 Completed Permit Application ([Form TC 99-1A](#))

2 Paper Copies of Attachments (Utility Plans, Drawings, Traffic Control Plan, etc.)

An electronic copy (.PDF preferred) of the Permit Application and Attachments. Send Electronic copy to Randi.Feltner@ky.gov.

When an Indemnity is required, an Encroachment Permit Bond form ([TC 99-7](#)) and/or a Cashier's or Official check (payable to the Kentucky State Treasurer) must be remitted. Indemnity amounts vary and are related to the amount of impact on Right of Way. A notarized Power of Attorney Document shall accompany the bond.

Existing self-insured entities will not require a bond.

Contact Information:

District 7
800 Newtown Court
Lexington, KY 40511
Phone: (859) 246-2355
Fax: (859) 246-2354
Hours: 8:00 a.m.-4:30 p.m. EST, M-F
[Email Us](#)
[Map It](#)

Follow District 7



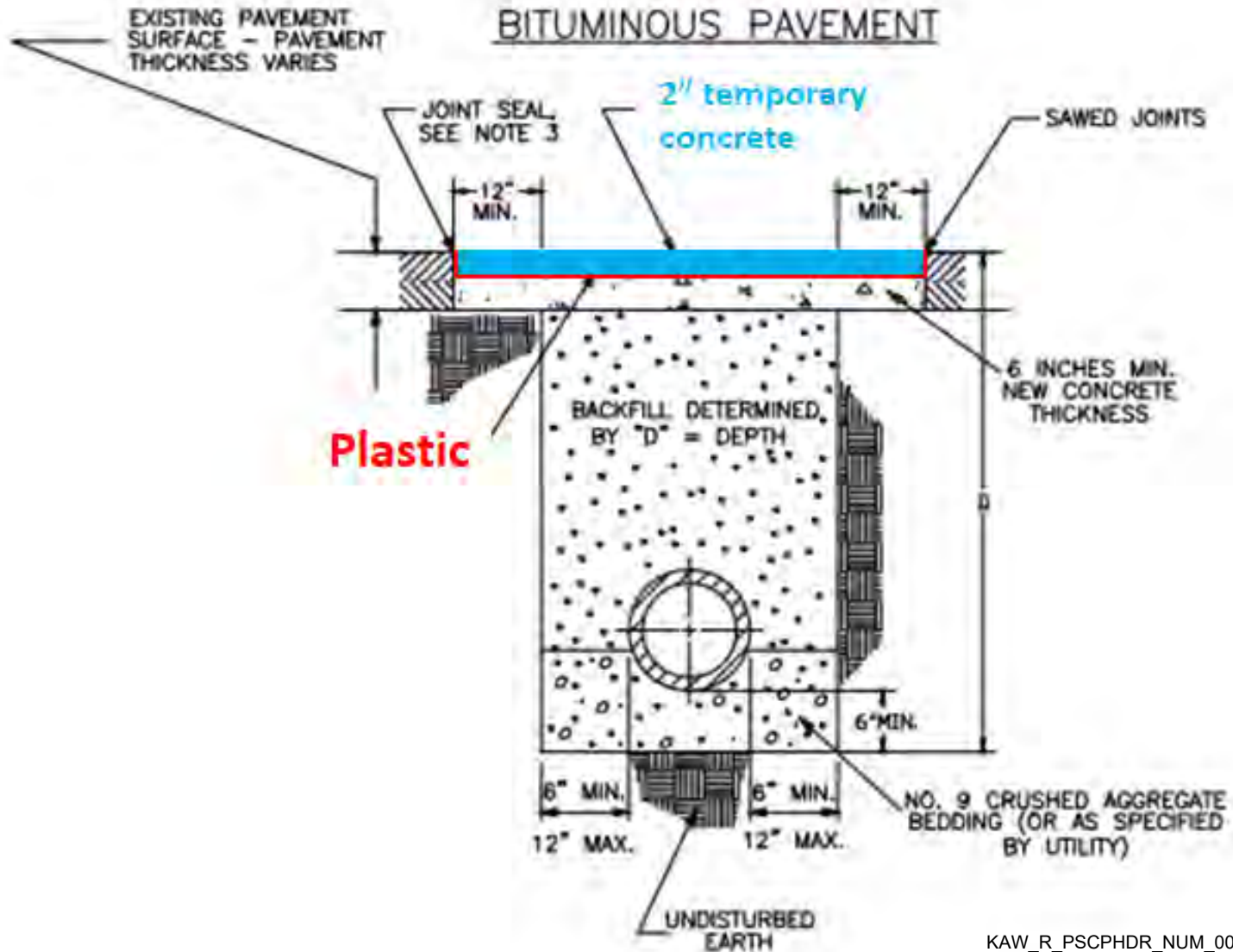
Navigation

[District 7 Home Page](#)
[Office Personnel](#)
[County Facilities](#)
[Project Development](#)
[Project Delivery & Preservation](#)
[Engineering Support](#)
[Permits](#)
[County & City Websites](#)

Projects

KAW_R_PSCPHDR_NUM_007 Attachment
US 460 Improvements

Temporary Restoration with concrete to surface (slide 1 of 3)



Temporary Restoration of Surface Cuts on LFUCG Roads (slide 2 of 3)

- Concrete to the surface is now allowed with the following requirements:
 1. Contractor to notify Streets and Roads in advance of the concrete pour so an inspection can be made.
 1. However, the inspection is not mandatory and the contractor may proceed in good faith should an LFUCG representative not be available.
 2. Top 2" (minimum) of concrete shall be separated from the 6" concrete cap by a layer of plastic.
 3. Top surface of concrete shall be flush with the surrounding roadway and have a relatively smooth finish. Mark it with your initials.

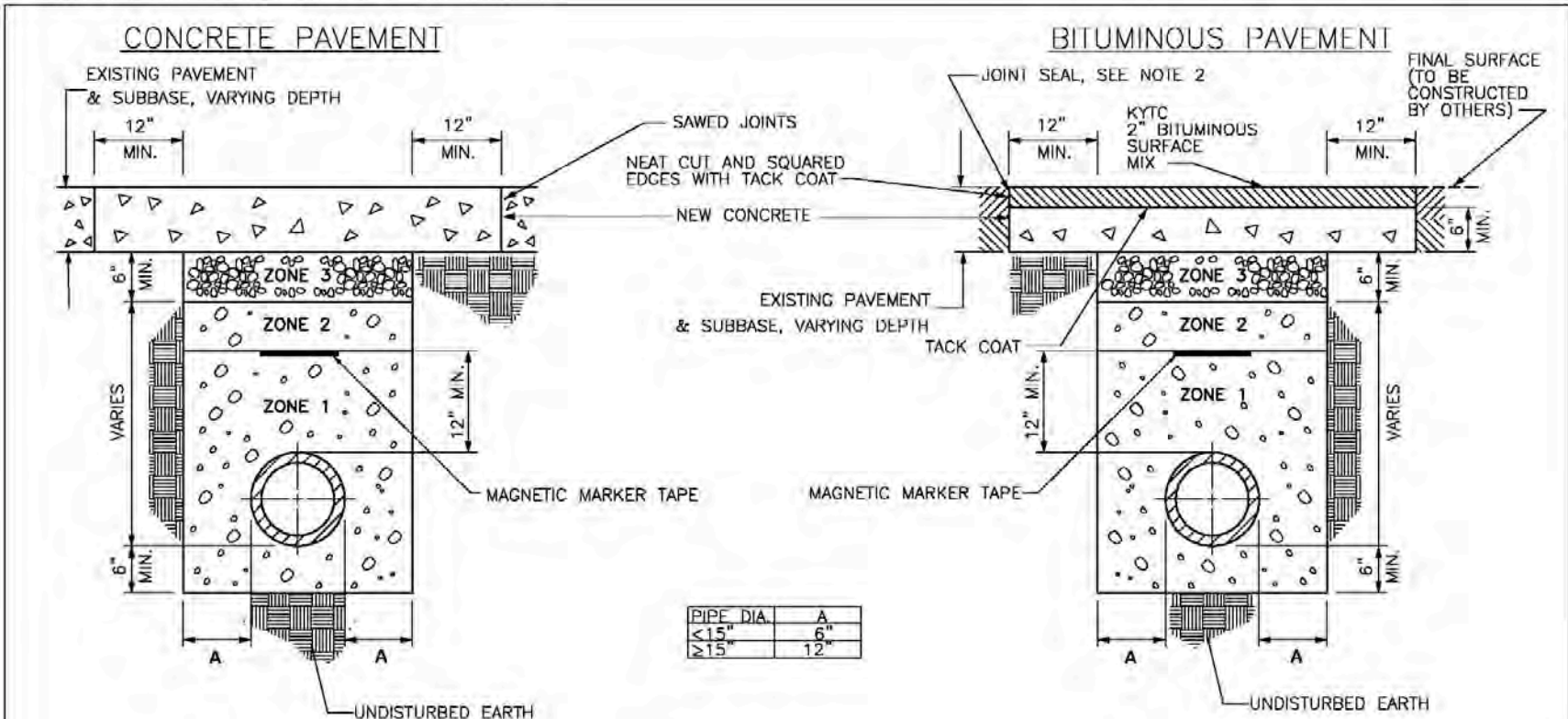
Temporary Restoration of Surface Cuts on LFUCG Roads (slide 3 of 3)

Continued:

4. Contractor to notify Streets and Roads in advance of the milling operation (or removal operation) for an inspection.
 1. A 2” minimum mill is required.
 5. Tack coat shall be applied between the 6” concrete cap and asphalt surface.
 6. While asphalt plants are **open**, surface concrete may only remain for the duration of the approved permit.
 7. While asphalt plants are **closed**, surface concrete may remain until 60 days after the plant reopens.
-
- Results of the “winter trial period” will be evaluated.

Surface Cuts

- **Standard Drawings 201-1, 2, 3 & 4 updated June 2019**
 - Revised to simplify street trenching requirements - regardless of the purpose of the trench.
 - Revised to allow the designer to decide if **aggregate** or **flowable fill** will be used for backfill.
 - Both backfill methods still require a concrete cap.



PIPE DIA.	A
< 15"	6"
≥ 15"	12"

PIPE BACKFILL DESCRIPTIONS	
ZONE 1	NO. 9 STONE OR AS SPECIFIED BY THE UTILITY
ZONE 2	NO. 9 OR NO. 57 STONE
ZONE 3	COMPACTED DGA

NOTES:

1. REPLACE CONCRETE PAVEMENT WITH NEW CONCRETE PAVEMENT, 6" MINIMUM OR EXISTING THICKNESS, WHICHEVER IS GREATER. PER KYTC SPECIFICATION 601.03.03 A) CLASS A FROM STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION.
2. SEAL PERIMETER OF CUT PAVEMENT WITH CRACK SEALANT THAT MEETS ASTM D6690, TYPE 2.
3. MAGNETIC MARKER TAPE FOR SANITARY SEWER ONLY.

NO.	DATE	REVISION DESCRIPTION	BY
01	08/01/18	ISSUE, NOTES AND TITLE	TRG

 **LEXINGTON**

DIVISION OF ENGINEERING

TRENCHING, LAYING, BACKFILLING AND BEDDING UNDER STREET PAVEMENT USING AGGREGATE

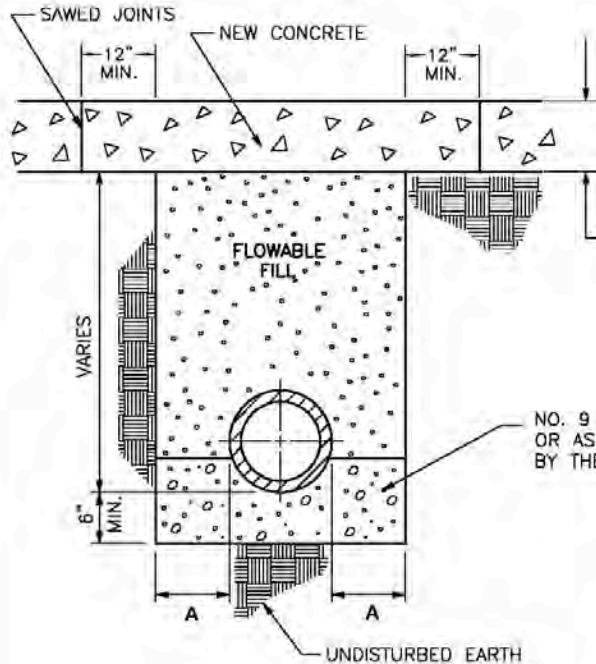
STANDARD DRAWING NO. **201-1**

APPROVAL:  DATE: 8/20/19

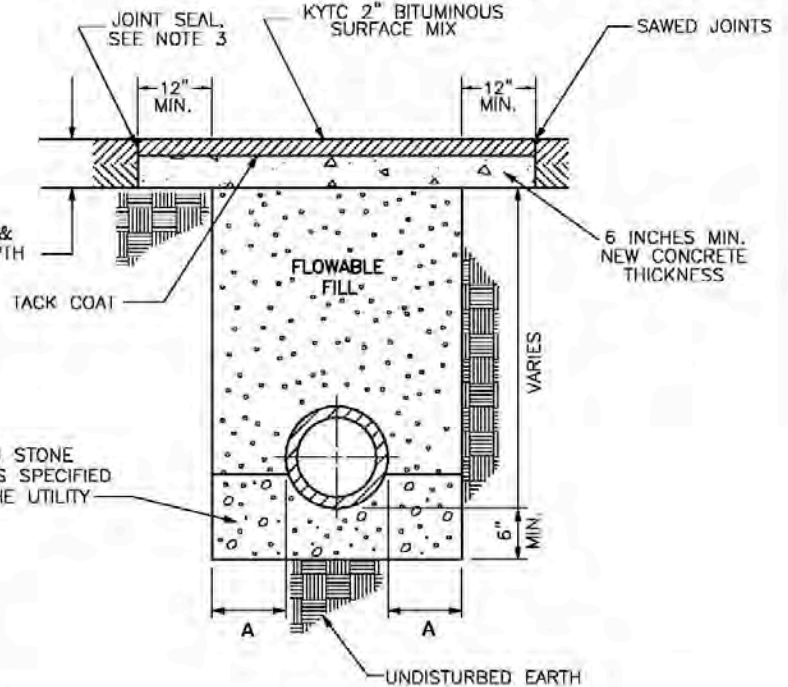
URBAN COUNTY PROJECT NO. **201-1** DATE: 7/27/19

TO BE USED WITH STANDARD DRAWING 201-1 KAW R PSCPHDR NUM-007 Attachment

CONCRETE PAVEMENT



BITUMINOUS PAVEMENT



PIPE DIA.	A
<15"	6"
≥15"	12"

NOTES:

1. FLOWABLE FILL PER KYTC SPECIFICATION 601.03.03 FROM STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION CURRENT EDITION.
2. REPLACE CONCRETE PAVEMENT WITH NEW CONCRETE PAVEMENT, 6" MINIMUM OR EXISTING THICKNESS, WHICHEVER IS GREATER. PER KYTC SPECIFICATION 601.03.03 A) CLASS A FROM STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION.
3. SEAL PERIMETER OF CUT PAVEMENT WITH CRACK SEALANT THAT MEETS ASTM D6690, TYPE 2.
4. UTILITY DESIGNERS AND CONTRACTORS SHALL ACCOUNT FOR AND PROVIDE ANY SUITABLE MEANS TO PREVENT PIPE/CONDUIT FLOATATION.

NO.	DATE	REVISION DESCRIPTION	BY
01	08/01/18	UPDATES NOTES AND TITLE	TDL

LEXINGTON
 DIVISION OF ENGINEERING
 TRENCHING, LAYING,
 BACKFILLING, AND BEDDING
 UNDER STREET PAVEMENT
 USING FLOWABLE FILL

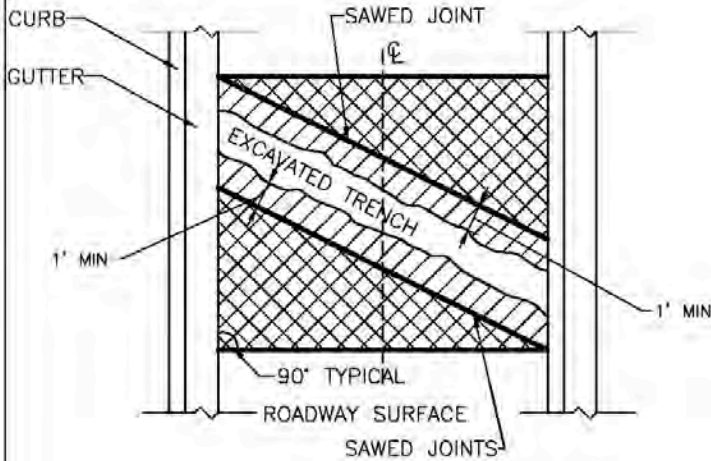
STANDARD DRAWING NO.	201-2
APPROVAL:	9/22/17
DESIGNER:	DATE: 7/27/17
CHECKER:	DATE:

TO BE USED WITH STANDARD DRAWING 201-4
 KAW R PSCPHDR NUM-007 Attachment

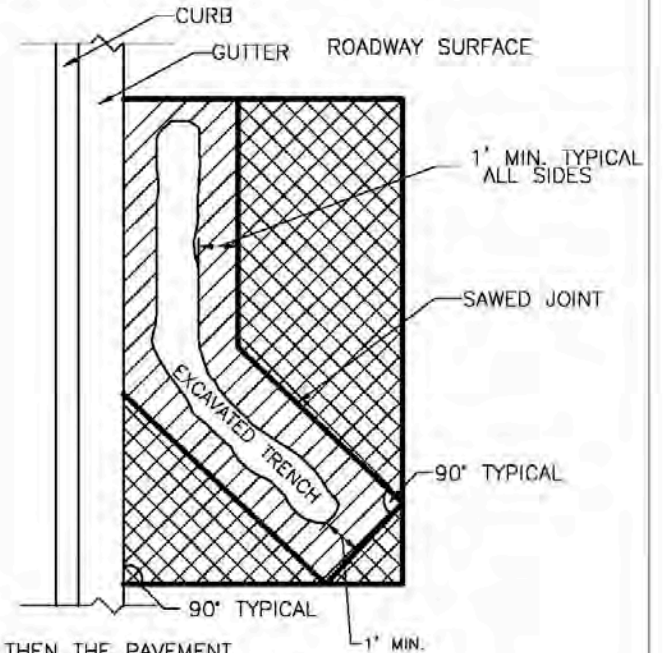
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NO.	DATE	REVISION DESCRIPTION	BY
01	06/01/19	SHEET OMITTED	TDL
 LEXINGTON DIVISION OF ENGINEERING			
STANDARD DRAWING NO.			201-3
APPROVAL		DATE	9/22/17
URBAN COUNTY ENGINEER		DATE	7/27/17
DATE		DATE	

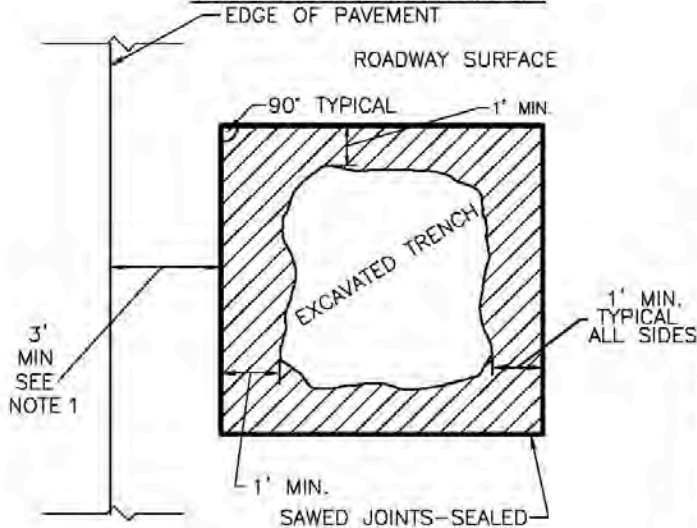
TRANSVERSE EXCAVATION



LONGITUDINAL EXCAVATION - ADJACENT TO CURB OR GUTTER



ISOLATED EXCAVATION



NOTES:

1. WHEN LESS THAN 3', THEN THE PAVEMENT SHALL BE REMOVED TO THE EDGE OF PAVEMENT AND REPLACED PER STANDARD DRAWING 201-1 OR 201-2.
2. STREET CUT SHALL BE ORIENTED EITHER PARALLEL OR PERPENDICULAR TO CURB OR GUTTER.
3. ALL SAWED JOINTS SHALL PRODUCE NEAT CUTS WITH SQUARED EDGES.

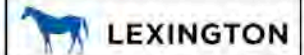


AREA SHALL BE EXCAVATED TO 8" BELOW ROADWAY SURFACE, THEN REPLACED PER STANDARD DRAWING 201-1 OR 201-2.



AREA SHALL BE MILLED 2" AND REPLACED WITH 2" BITUMINOUS SURFACE MIX.

NO.	DATE	REVISION DESCRIPTION	BY
01	08/01/18	GRAB, NOTES AND TITLE	TRJ



DIVISION OF ENGINEERING

TRENCHING, LAYING, BACKFILLING AND BEDDING UNDER STREET PAVEMENT (PLAN VIEW)

STANDARD DRAWING NO.	201-4
APPROVAL:	<i>[Signature]</i>
URBAN COUNTY REGISTER:	<i>[Signature]</i>
DATE:	7/27/19

TO BE USED WITH STANDARD DRAWINGS, 201-1, 201-2, 201-3, 201-4, 201-5, 201-6, 201-7, 201-8, 201-9, 201-10, 201-11, 201-12, 201-13, 201-14, 201-15, 201-16, 201-17, 201-18, 201-19, 201-20, 201-21, 201-22, 201-23, 201-24, 201-25, 201-26, 201-27, 201-28, 201-29, 201-30, 201-31, 201-32, 201-33, 201-34, 201-35, 201-36, 201-37, 201-38, 201-39, 201-40, 201-41, 201-42, 201-43, 201-44, 201-45, 201-46, 201-47, 201-48, 201-49, 201-50, 201-51, 201-52, 201-53, 201-54, 201-55, 201-56, 201-57, 201-58, 201-59, 201-60, 201-61, 201-62, 201-63, 201-64, 201-65, 201-66, 201-67, 201-68, 201-69, 201-70, 201-71, 201-72, 201-73, 201-74, 201-75, 201-76, 201-77, 201-78, 201-79, 201-80, 201-81, 201-82, 201-83, 201-84, 201-85, 201-86, 201-87, 201-88, 201-89, 201-90, 201-91, 201-92, 201-93, 201-94, 201-95, 201-96, 201-97, 201-98, 201-99, 201-100

Surface Cuts

- **Reminders:**
 - **Restoration of new cuts inside existing cuts**
 - Eliminate small remaining areas.
 - Restore to original joints.
 - Ask when in doubt – we try to paint it when we can.
 - **Flowable fill** is not a substitute for concrete.
 - KYTC Specification 601.03.03 from Standard Specifications for Road and Bridge Construction, current edition
 - Average compressive strength of 50 to 100 psi at 28 days
 - UPM Cold Patch has good results, does yours?
 - 2 year performance warranty begins when ALL work is done; this includes joint seal and striping .

Emergency Work!



- A late scheduling request to a Utility company is not always considered an EMERGENCY by LFUCG.
 - Demolitions, real-estate closings, etc.
- When was the “Leak” first discovered? – **This can have a huge impact on required restoration limits.**
 - Always compare your work location (emergency and non-emergency) to the LFUCG Paving List.
- Who is responsible for restoration if there is a utility strike?- Get it in writing.

Project Updates

Any other organizations want to share a project update at this time?



Small Cell Antennas

- Large increase in permits for Small Cell Antennas
- Must be permitted whether on a new pole or attached to an existing pole – 3rd party, same evaluation process:
 - Presence of existing above ground utilities?
 - Near or in an existing pole line?
 - How will it be feed with power and fiber?
 - Viewshed /aesthetics are considered.



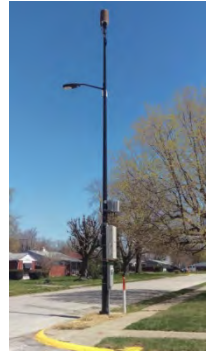
Small Cell Antennas



- In order to minimize new poles, LFUCG has strongly encouraged Small Cell Antennas to be combined with streetlights.
- Existing Street light will not support the antenna attachment so the existing streetlight must be replaced.
 - LFUCG does not own the streetlights, but leases them from KU.
 - For replacement to happen (in general):
 1. Traffic Engineering will authorize KU to remove the streetlight and allow the Third Party to install an equivalent streetlight at the same location through an agreement with LFUCG. (aka decommission process)
 2. The agreement (M.O.U.) transfers ownership, maintenance and any cost of the new combined streetlight to the Third Party.

Small Cell Antennas

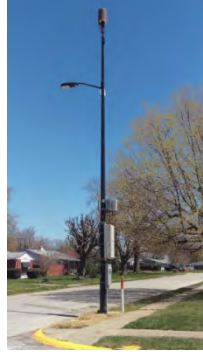
- **Process for Streetlight attachment/replacement**



- **The “General” M.O.U. was created and became effective July 2, 2019; per Resolution 352-2019.**
 - In short, the third party is responsible for all costs of the replacement, must provide electricity to the street light and must maintain it at all times. Additionally the replacement streetlight must be “substantially-similar” to the existing streetlight.
 - The third party must execute the “General” M.O.U. by signing and then the Council Clerk will record the document.
 - The M.O.U. is not specific to a location, but addresses the general procedure and requirements to install and maintain a combined small cell antenna and streetlight.
 - The M.O.U. is continuous (does not need to be renewed).

Small Cell Antennas

- **Process for Streetlight attachment/replacement**



Specific streetlight permitting process (after M.O. U. is executed):

1. Third party submits plan sheets to KU identify specific streetlight to replace.
2. KU reviews and approves if power can be supplied at this location; or sends back for revision.
3. Third party submits KU approved plan to LFUCG Right-of-Way and Traffic Engineering.
4. LFUCG Right-of-Way approves plan and issues permit, and Traffic Engineering issues a letter to KU to decommission; or sends back for revision. If sent back, the process would start over at step #1
5. KU removes the existing streetlight and the third party installs, owns and maintains the new combined streetlight and small cell antenna per requirements of the M.O.U.

LFUCG Fiber Optic Lines

- **Managed by Traffic Engineering (TE)**
- **TE is currently inventorying all LFUCG Fiber**
- **Most LFUCG fiber is located along signalized routes**
- **Not registered with 811 – will not get marked**
- **To check for possible fiber on your project site:**
 - **apply for a Lane Blockage permit even if they do not plan to block a lane or sidewalk. But write on the permit “requesting the location of LFUCG fiber optic lines inside the project area.”**



New Portal/Software for Applying for Permits and Management of Permits

- **Accela - Right of Way Management Software**
 - Accela performed updates that caused the Lexington program to have “issues”.
 - Accela intends to have the “issues” fixed before the end of 2019.
 - We will Go-Live with it as soon as possible.
 - Current permit data will not migrate to Accela.
 - Submitting a permit will be straight forward (no extensive training needed).

**Open Discussion, Questions
and
What will YOU add to next
meeting?**

UTILITY COORDINATING COMMITTEE MEETING

March 19, 2020 – Will begin at 10:05 am

Teleconference only; no in-person attendance.

Detailed call-in instructions were included in the meeting invite and are repeated on the next slide.



UTILITY COORDINATING COMMITTEE MEETING

Presentation will begin at 10:05 am

To attend the meeting:

- 1) From your phone- call into Zoom
 - a. Phone number 1 929 205 6099
 - b. Enter Meeting ID: 842 926 622
 - c. There is no participation ID for this meeting
 - d. Place phone on mute until you are ready to talk to the group.
- 2) From your computer/device
 - a. Pull up the Agenda (attached)
 - b. Pull up the PDF of the PowerPoint (coming soon) and flip through the slides as the meeting progresses.
- 3) I plan to begin the meeting at 10:05 to allow time for all to successfully connect.
- 4) Please don't hesitate to share/discuss/ask questions (just don't forget to unmute your phone)
- 5) I will not know who is in attendance so please introduce yourself at the start of your question or comment.

Introductions

- Brian Knapp, PE, PLS - Division of Engineering, Right of Way Management Manager
- Doug Burton, PE, PMP - Director of Engineering/Urban County Engineer
- DOE/ RW Management/ Engineering Technicians
 - Vince May
 - Jim Wray
 - James Confides
 - Russ Watkins

General Coordination

- Utility Coordinating Committee Meeting (UCCM)
 - Ordinance 17C -7(h) establishes us as a Committee.
 - Need more utility involvement, not just LFUCG policy. – **Speak up today!**



General Coordination

- **LFUCG / DOE / RW Management Social Distancing Practices:**
 - **Remember these are constantly changing procedures.**
 - Permitting process is business as usual.
 - How and from where we work has changed with more changes are possible:
 - No in-person meetings; big or small.
 - Hard copy documents (checks, bonds, plans etc.) are to be mailed or if necessary, dropped off at the 1st floor security desk. – 101 E. Vine St.
 - LFUCG Inspectors are currently working 100% in the field with no in-office presence.
 - They can still be reached by email and cell phone.
 - Best Communication options: Email, text, cell phone, teleconference, mail and fax.
 - These changes and any future changes are possible to effect the speed of permitting; we appreciate your patience as we continually adjust to new circumstances.
 - LFUCG has no intention to impede utility work, therefore, if the LFUCG work schedule becomes further limited; in good faith we ask you to proceed with your work in accordance with the guidelines of Ordinance 17C and the Standard Drawings. Any item in violation of these guidelines will not be grandfathered-in and will need to be corrected once normal work schedule resumes.

General Coordination

- Utility Coordinating Committee Meeting (UCCM).
 - Tri-yearly meeting schedule in 2020 (March 19th, July 9th and November 12th)
 - 10:00- following the LFUCG Capital projects Utility Meeting
 - **Future Teleconference options are being considered.**

General Coordination

- Returned 2020 Registration packets are being processed. – Thank you for your timely turnaround.
 - To be returned by March 16
 - 21 mailed out 15 returned; 6 not returned yet
- Utility Master Plan
 - Needs to include all planned projects even if previously shared with LFUCG.
 - Shared with multiple LFUCG Divisions.
 - Used to identify conflicts with:
 - LFUCG Street Paving Lists.
 - LFUCG Capital projects from Multiple division.
 - Future Development.

General Coordination

INITIAL all Temporary Surface Cut Patches

- Paint Utility Company initials in cold patch with **white paint**. (We don't want it to be confused with a utility locate marking.)



General Coordination

- Utility relocations required by LFUCG Projects
 - When entering the permit, after checking the “LFUCG Project” box, please provide a LFUCG project name or point of contact.

- If the restoration is to be done by someone other than the permittee - **GET IT IN WRITING.**
 - Utility Strike
 - Property owner’s responsibility



General Coordination

- Redevelopment sites – Holistic View of all disturbances/installations in the Right of Way
 - Multiple small cuts, by multiple organizations, in a small area are leaving the road in poor condition.
 - Working to getting ahead of the issue at the planning stage, instead of fighting it on the tail end.
 - Working to make developer accountable for final restoration of asphalt disturbed by their project.
 - Due to timing, this may/may not have an affect on your associated cut(s).

General Coordination

- Last Meeting a “List of Open Permits” was requested
 - 22ish companies registered
 - 13 had open permits
 - 13 lists sent out, 9 returned with comments- Thank you.
 - We have used these returned lists to cleanup/close many permits and to identify lingering work/restorations/permits.
- Right of Way Management Software
 - LFUCG has terminated our work with “Accela Right of Way Management Program”
 - This does not impact the Accela software that other LFUCG divisions use.
 - Will be issuing a RFP for a new Software Provider
 - Other providers look promising
 - Utility Company interface is to include permit management/status viewing capabilities.

Installation Permits

- 17C was revised in October 2017 to establish a fee reassessment for surpassing the 21 day limit for pavement restorations of **Surface Cut Permits only**.
 - Fee reassessment, for incomplete restoration, was intended to encourage compliance, not to raise revenue.
- **Installation Permits**, which include cutting 1) curbs 2) sidewalks, 3) driveway aprons and 4) removing poles etc.; have been **slow to get restored**.

Discussions of how to get these restoration done in a timely manner include fee reassessment on a (21 day) cycle.

Update = No changes at this time.

Installation Permits

- Sidewalk or driveway cuts that involve pavers
 - Carefully remove the pavers and store in a safe place until they are reinstalled.
 - Last resort - Contact Bill Osborne wosborne@lexingtonky.gov to see if S&R has any matching surplus pavers (or to give S&R extra pavers.)



Installation Permits

- Pole Replacements
 - The “List of Open permits” identified many poles awaiting transfer or to be pulled.
 - Needs to be reduced.
 - Pole owners
 - Communicate with attachers that the new pole is up and ready for transfers to begin.
 - Attachers
 - Communicate with the “next to transfer” as soon as you have transferred
 - Last to transfer should communicate to the pole owner know that the pole is ready to be removed.

Steel Plates

- Strongly encouraged year round!





Steel Plates



- **YEAR ROUND notification of all steel plates** placed in public Right of Way is required.
- Notify Streets and Roads by:
 - 1) Fill out and submit “Steel Plate Information Form” online at: <https://www.lexingtonky.gov/steel-plates-form>OR
 - 2) Email the completed “Steel Plate Information Form” to: SteelPlates@lexingtonky.gov
- Every Plate, Every time
 - Submit form as notification of plates INSTALLED.
 - Send email as notification of plates REMOVED.
 - Submit/send by 4:00pm



Steel plates form

Use this form to submit information regarding steel plate usage on city streets and roads.

Contact

Streets & Roads

1555 Old Frankfort Pike
Lexington, KY

Hours:

Monday – Friday: 7:30 a.m. – 4 p.m.

 (859) 258-3451

Location address *

Ex. 100 E. Main St.

Location specifics

Ex. in NB lane, in turn lane, in far left lane, in entrance apron, across sidewalk, etc.

Utility or project owner name *

Ex. Kentucky American Water

Contractor name *

Ex. ABC Construction

24 hour contact name *

First Name

Last Name

24 hour contact phone number *

Ex. (859) 425-2255


24 hour contact email address

ex. contact@example.com


How many plates? *

Please put in one or more plates. Ex. 7

Plate placement date *

Nov ▾ 13 ▾ 2019 ▾ 

Expected removal date *

Nov ▾ 13 ▾ 2019 ▾ 

[Submit Form](#)



Steel Plate Information

Address or intersection: _____

Location specifics (examples: in NB lane, in turn lane, in far left lane, in entrance apron, across sidewalk, etc.):

Utility/Project Owner name: _____

Contractor Name: _____

24 hr. Contact name: _____

24 hr. Contact phone number: _____

24 hr. Contact email: _____

How many plates: _____

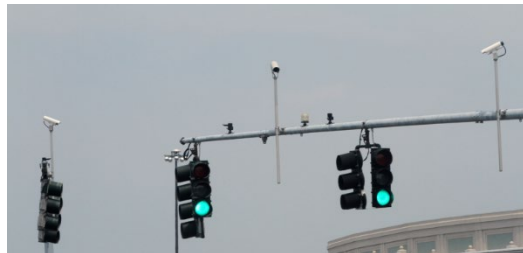
Plate placement date: _____

Plate removal date (expected): _____

You can also fill out the following information at: <https://www.lexingtonky.gov/steel-plates-form>

Traffic Engineering

- **Traffic Signal & Fiber Locates**
 - Not associated with 811 – will not get marked.
 - Submit locate request minimum 3 days prior to digging by email to:
 - TE_Locates@lexingtonky.gov
 - Provide Location, dig date and contact information.
 - TE is currently developing additional methods to submit locate requests.



- **The above information supersedes the method provided last UCCM meeting for requesting Traffic Signal & Fiber Locates.**

Traffic Engineering

Lane Blockage Permits - Sidewalks too

Division of Traffic Engineering, Phone:(859) 258-3830

E-mail: lane_blockage@lexingtonky.gov

Website: <https://www.lexingtonky.gov/lane-closure-permit>

Lane blockage permit

The issue of lane blockages and/or closures is an important one because of the concern for the safety of pedestrians, the motoring public and the contractors.

This permit can be used for the following:

- block off streets and lanes for construction, installations and repairs
- crane work space
- equipment
- utility projects
- placing a dumpster
- POD
- portable storage container
- large trash receptacle on the street

There is **no charge** for this permit and it is **mandatory** when blocking any portion of a street within Fayette County.

Apply Online



Apply with PDF



Contact

Traffic Engineering

101 E. Vine St.
Lexington, KY

Hours:

Monday – Friday: 8 a.m. – 5 p.m.

Email us

(859) 425-2255

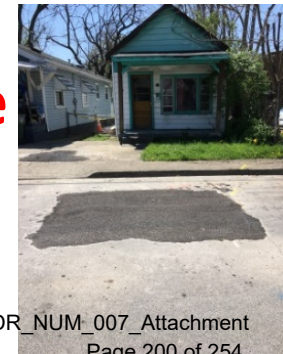
@LexWrecks

Surface Cuts and Paving

- Spring is coming!
- Asphalt Plant plan to open March 23rd:
 - **New Surface Cut Permits** – 21 day limit for restoration begins
 - **“Winter cuts”** - 60 days after the Asphalt plant reopens any un-restored “winter cuts” will be reassessed the permit fee and then again every 21 days until restored.
- LFUCG will send a list of all open Surface Cuts (aka “60 day list”) after the plants open.



Effects of COVID-19 will be considered before reassessment of fees are implemented.





Surface Cuts and Paving

- **LFUCG Street Paving**

- Scheduled to begin March 23rd, 2020
- To be added to the email distribution for the “Street Paving List” send an email to the Rob Allen, Director of Streets and roads, rallen@lexingtonky.gov
- Streets & Roads inspector must be present during all large milling and paving operations, i.e. full lane, intersection, curb to curb (if you are unsure; ask)
 - Contact Bill Osborne to schedule wosborne@lexingtonky.gov
- Flowable fill is not a substitute for concrete used in the concrete cap over trench
 - KYTC Specification 601.03.03 from Standard Specifications for Road and Bridge Construction, current edition
 - Average compressive strength of 50 to 100 psi at 28 days

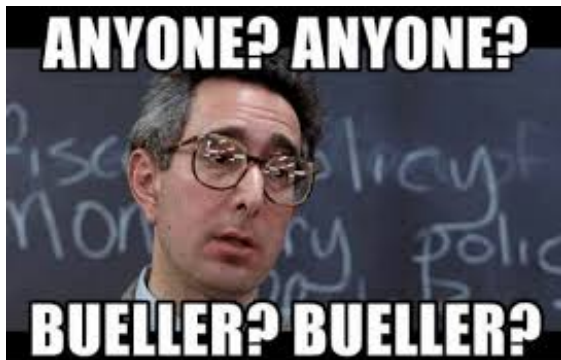


Surface Cuts and Paving

- **LFUCG Street Paving**
 - 2 year performance warranty begins when ALL restoration work is done; this includes joint seal and striping.
 - Private Contractors performing Street Cuts/paving
 - Bonds (cash or bond) are held for entire 2 year warranty period. Per 17C-23.
- **KYTC Street Paving**
 - Main St from Midland Ave to Oliver Lewis Way is on their paving list- Schedule T.B.D.

Project Updates

Any organization want to share a project update at this time?



Small Cell Antennas

- Large increase in permits for Small Cell Antennas
- Must be permitted whether on a new pole or attached to an existing pole – 3rd party, same evaluation process:
 - Presence of existing above ground utilities?
 - Near or in an existing pole line?
 - How will it be feed with power and fiber?
 - Viewshed /aesthetics are considered.



Small Cell Antennas



- In order to minimize new poles, LFUCG has strongly encouraged Small Cell Antennas to be combined with streetlights.
- Existing Street light will not support the antenna attachment so the existing streetlight must be replaced.
 - LFUCG does not own the streetlights, but leases them from KU.
 - For replacement to happen (in general):
 1. Traffic Engineering will authorize KU to remove the streetlight and allow the Third Party to install an equivalent streetlight at the same location through an agreement with LFUCG. (aka decommission process)
 2. The agreement (M.O.U.) transfers ownership, maintenance and any cost of the new combined streetlight to the Third Party.

Small Cell Antennas



- **Process for Streetlight Decommissioning/Replacement**
 1. Third party has Executed Streetlight Decommissioning MOU.
 2. Third party selects existing street light location (instead of requesting to install a new pole) and works with KU to secure electric service.
 3. Third party submits KU approved plan to LFUCG for Right-of-Way and Traffic Engineering's approval. Permit issued; and Letter to Decommission sent to KU.
 4. Construction begins.

Small Cell Antenna Installation

Electric Service Availability
Street Light Decommissioning

Electric Service Availability

- Customer should complete and submit load sheet and site plans to Kevin Long at 500 Stone Road, Lexington, KY 40503
- Review could take up to 30 days. Once reviewed customer will be contacted on the availability of 120/240 single phase service. If service is not available, customer will have the option to relocate site or pay for line extension if feasible
- No meter-bases are allowed on KU owned facilities. If the proposed site is for a KU owned wood pole, KU may elect to allow un-metered service. That rate will be calculated off the load sheet submitted.

Streetlight Decommissioning

- Once plan is approved, customer would contact city and request to take over ownership of the light. If approved by the city, customer would install their own pole with same size and type of existing street light, or light requested by the city. Once installed, and put into service, KU would remove their streetlight and pole upon receipt of letter from city request the light be removed. Customer would be responsible for all cost associated with relocation, and removal, of KU facilities. All metering and equipment would be mounted on customer owned pole

Issues that will complicate installation

- Most underground streetlight feeds are 120 volt single phase. KU does not offer 120 volt single phase service; only 120/240 single phase service is offered. Therefore the feed would need to be re-worked to up it to 120/240.
- Some subdivision easements are “Streetlight Easement”. May not be able to use that route to feed meter-base.

Time lines

- Reviews could take up to 30 days.
- Relocation of KU facilities could be up to 60 days.
- Service installations typically take 3-5 business day. If facilities are available.

Open Discussion, Questions



What will YOU add to this meeting?

Agenda for the UCCM
July 9, 2020 at 10:00 - Zoom

- **General Coordination**

- Next meeting is November 12th, 2020 at 10:00; Zoom and/or in-person TBD
- LFUCG/ DOE/ RW Management – Healthy at Work Practices
 - Building closed to the public, but drop-offs at security desk allowed.
 - Outside – onsite meetings allowed with PPE and social distancing
- Temporary Outdoor Business (Restaurants, Bars and Retail) Expansions into RW, parks, sidewalks and streets
 - Extended to September 8th.
 - Possible temporary closures including parking lanes / compete street.
- Right of Way Management Software - RFP to be advertised late July
- INITIAL all temporary patches with (white) paint.

- **Installation Permits**

- Pole Replacements – make transfers ASAP and remove the pole ASAP.
- Discussion please: cable identification possibilities – tags, sleeves, other?

- **Steel Plates – YEAR ROUND NOTIFICATION REQUIRED to *Streets and Roads***

- Every plate, every time - installed and removed
- <https://www.lexingtonky.gov/steel-plates-form> - required method
- SteelPlates@lexingtonky.gov - additional communication

- **Traffic Engineering**

- Traffic Fiber Locate Request– 3 day advanced dig warning –
 - www.lexingtonky.gov/locates - required method
 - Do not distribute cell phone #s for locate requests
- Lane Blockage Requests:
 - <https://www.lexingtonky.gov/lane-closure-permit> - required method
 - Lane_Blockage@lexingtonky.gov – additional communication

- **Surface Cuts and Paving**

- Asphalt plant opened approx. March 23 but we delayed fee reassessment until June/August due to adjusting to COVID-19.
- “60-Day List” of open surface cut permits were sent by June 1.
 - Must be restored by Monday August 3 to avoid fee reassessment.
 - Please return the list with updates about their current status.
- “21Day Cycle” for new permits began June 1.
- “60-Day List” and “21Day Cycle” does not apply to long term projects.
- Street Paving List” email group – Contact Rob Allen Rallen@lexingtonky.gov
- Concrete to the Surface over trench
 - Requires approval of Engineering and S&R
 - Requires a signed statement that 2” depth will be milled
 - If plastic is used between the 6” cap and 2” surface – then LFUCG inspector shall be present at the time of the pour.
- Large paving areas (or small area if you have concerns):
 - Streets & Roads inspector must be present during milling and paving
 - Contact Bill Osborne to schedule wosborne@lexingtonky.gov

- **Project/ Utility Updates**
 - Anyone have something to share?
 - Town Branch Commons
 - Paving of Bolivar, Winslow, Avenue of Champions, Euclid Corridor

- **Small Cell Antenna – 4G/5G Activities/Issues Review Committee**
 - Permitting protocol – requirements
 - Street address required
 - Is a 106 Review necessary?
 - 1) Have Executed Decommissioning MOU, 2) Design to eliminate (or minimize) installing a new pole **(this includes auxiliary posts and pedestals)** 3) Request power feed from KU 4) apply for LFUCG/RW permit.
 - Power feeds to small cell sites – KU – Any updates?
 - Inventory of existing locations in RW
 - GIS and Field Verified
 - Identification tag

- **Open Discussion and Questions**

UTILITY COORDINATING COMMITTEE MEETING

November 12, 2020 – 10:00 am

Teleconference only; no in-person
attendance.



Introductions

- Brian Knapp, PE, PLS - Division of Engineering, Right of Way Management Manager
- Doug Burton, PE, PMP - Director of Engineering/Urban County Engineer
- DOE/ RW Management/ Engineering Technicians
 - Vince May
 - Jim Wray
 - James Confides
 - Russ Watkins

General Coordination

- Utility Coordinating Committee Meeting (UCCM).
 - Tri-yearly meeting schedule in 2021 (March 11th, July 8th and November 11th)
 - 10:00- following the LFUCG Capital projects Utility Meeting
 - **Held in-Person and/or teleconference is to be determined.**

General Coordination

- **LFUCG / DOE / RW - Healthy at Work Practices:**
 - Remember these are constantly changing procedures.
 - Permitting process is business as usual.
 - Phoenix Building is closed to the public except for deliveries to the security desk.
 - No in-person meetings except for outdoor site meetings with use of PPE and social distancing.
 - LFUCG Inspectors are currently working primarily in the field with minimal in-office presence.
 - With remote desktop, we have full access to all office resources.
 - Best Communication options: Email, text, cell phone, teleconference, mail and fax.



General Coordination



- **Restaurant, bar and retail temporary relief program**
 - This program will enable restaurant, bars and retail businesses to temporarily expand capacity and safely serve more patrons in conjunction with the Governor's guidance for re-opening.
 - Sidewalks, parking lanes, street closures, private parking lots.
 - Use of Tents are acceptable with approval.
 - Temporary Outdoor Business Expansion Ordinance has been extended through May 2nd 2021.

General Coordination



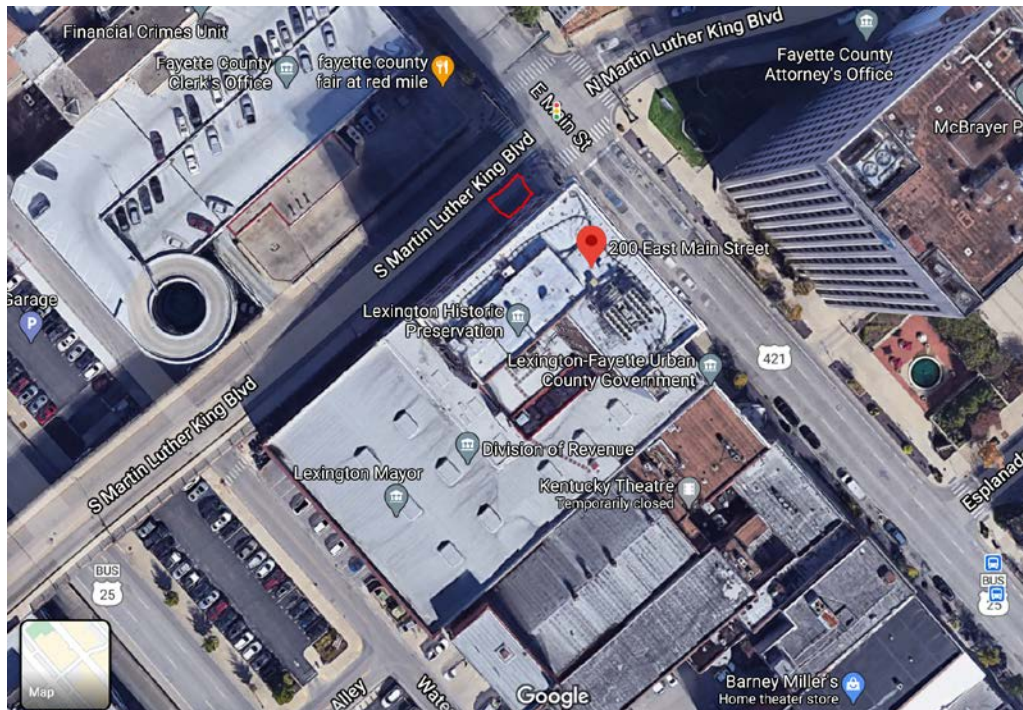
- Opportunities for outdoor expansion include:
 - Temporary use of sidewalks – **no LFUCG permit required**
 - Temporary use of on-street parking or other public rights-of-way – **LFUCG permit required**
 - Temporary use of private parking lots – **no LFUCG permit required**
 - Temporary use of public parks – **LFUCG permit required**
 - Temporary closure of public streets – **LFUCG permit required**
 - **Tents require an additional permit from Building Inspection.**
- Application review committee includes: the Mayor's office, Engineering, Traffic Engineering, Police, Fire, Parks and Lex Park.
- Your cooperation and patients are appreciated.

General Coordination

- Right of Way Management Software
 - RFP for a new Software Provider
 - Had a good response.
 - Currently working out the details with the top respondent.
 - Plan to get Council Action on contract next week.
 - 3 to 4 month build time
 - New software plus field compatibility will be a great enhancement- very user friendly.

General Coordination

- Current Right of Way Management Software
 - Site address vs Nearest Cross Street Address
 - When applying for a permit for a **corner lot**, list the **Site Address** as the street where work is taking place, list the house address as **Nearest Cross Street**.



Step Four:

Type of Work:	<input type="text" value="Repair Leak"/>
Site Address:	<input type="text" value=""/> <input type="text" value="S MARTIN LUTHER KING"/> ▼
Nearest Cross Street / Address:	<input type="text" value="200"/> <input type="text" value="E MAIN ST"/> ▼
Starting Date:	<input type="text" value="8/12/2020"/>

General Coordination

INITIAL all Temporary Surface Cut Patches

- Paint Utility Company initials in cold patch with **white paint**. (We don't want it to be confused with a utility locate marking.)



General Coordination

Leaving equipment, spools, trailers etc. in the Right of Way overnight

- Identify the owner
 - Sign it / Tag it
- Fence it off as necessary



Installation Permits

- Pole Replacements
 - The “List of Open permits” identified many poles awaiting transfer or to be pulled.
 - Needs to be reduced.
 - Again, I have been asked to improve the situation.
 - New permits may be “on hold” until old poles in the area have been removed. – This method seems to work.
- Cable/wire identification
 - A policy to require owner identification is being discussed.
 - Tags, sleeves, color, shape, size, spacing, etc. ???
 - Best to be distinguishable from the ground and from the pole.



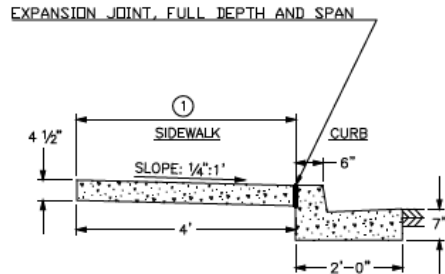
Installation Permits

- Early Winter/Late Spring is a great time to get caught up on concrete work!



Installation Permits

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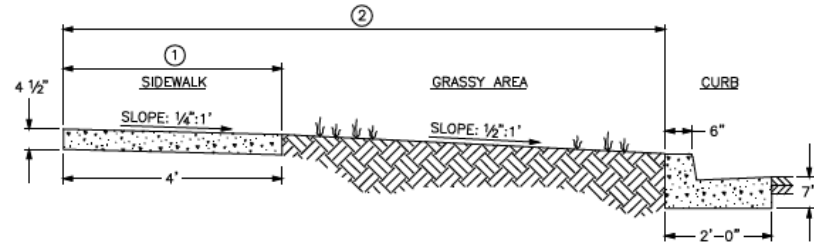
SIDEWALK/CURB AND GUTTER

NOTES:

1. CONCRETE SIDEWALKS AND WALKWAYS SHALL BE CONSTRUCTED ON A THOROUGHLY COMPACTED SUB-GRADE AND SHALL BE FOUR AND ONE HALF (4 1/2) INCHES IN THICKNESS AND A MINIMUM WIDTH OF FOUR (4) FEET. CONCRETE SHALL MEET THE REQUIREMENTS FOR CLASS "A" AND SHALL BE COATED WITH WHITE PIGMENTED CURING COMPOUND TYPE 2, ALL AS SPECIFIED IN KYTC SPECIFICATION, SECTION 823.02.
2. FULL DEPTH EXPANSION JOINTS SHALL BE PLACED AT CONTACT WITH NEW OR EXISTING CONCRETE, EXISTING CONCRETE, AT ABUTTING RIGID STRUCTURES OR FEATURES SUCH AS BUILDINGS, DRIVEWAYS, UTILITY POLES FIRE HYDRANTS, ECT. AND NOT TO EXCEED 200' MAXIMUM SPACING FOR SLIP FORM APPLICATION AND 32' FOR HAND PLACED. EXPANSION MATERIAL SHALL BE 1/2" ASPHALTIC MATERIAL OR APPROVED EQUAL MEETING KYTC 807.04.03.
3. CONTROL JOINTS SHALL BE PLACED AT INTERVALS EQUIVALENT TO THE SIDEWALK WIDTH, WITH A DEPTH OF 1/4 THE SIDEWALK THICKNESS.
4. THE SIDEWALKS SHALL BE PLACED ADJACENT TO THE STREET RIGHT-OF-WAY LINE. SLOPE TOWARD CURB SHALL BE ONE QUARTER (1/4) OF AN INCH TO THE FOOT. CONSTRUCTION IN EXISTING NEIGHBORHOODS SHALL REQUIRE THE CONTRACTOR TO MATCH EXISTING GRADE AND SIDEWALK WIDTH UNLESS SPECIFIED OTHERWISE BY THE DIVISION OF ENGINEERING.
5. SIDEWALK REPAIR FOR ANY CUTS MADE FOR UTILITY WORK REPLACEMENT SHALL BE FULL PANEL MATCHING THE ORIGINAL DIMENSIONS.

SHEET NOTES:

- ① NORMAL SIDEWALK WIDTH SHALL BE 4' UNLESS CHANGE IS AUTHORIZED BY URBAN COUNTY ENGINEER'S OFFICE.
- ② DISTANCE WILL VARY WITH ROAD CROSS-SECTION.



SIDEWALK/CURB AND GUTTER WITH GRASS UTILITY STRIP



 LEXINGTON	
DIVISION OF ENGINEERING	
SIDEWALK CONSTRUCTION SPECIFICATIONS	
STANDARD DRAWING NO.	303
DATE	9/22/17
DESIGNED BY	TSS
CHECKED BY	9/22/17
DATE	DATE

KAW_R_PSCPHDR_NUM 007 Attachment

Steel Plates

- Strongly encouraged year round!





Steel Plates



- **YEAR ROUND notification of all steel plates** placed in public Right of Way is required.
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- Every Plate, Every time
 - Submit form as notification of plates **INSTALLED**.
 - Send email as notification of plates **REMOVED**.
 - Submit/send by 4:00pm



Steel plates form

Use this form to submit information regarding steel plate usage on city streets and roads.

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Streets & Roads

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Lexington, KY

Hours:

Monday – Friday: 7:30 a.m. – 4 p.m.

(859) 258-3451

Location address *

Ex. 100 E. Main St.

Location specifics

Ex. in NB lane, in turn lane, in far left lane, in entrance apron, across sidewalk, etc.

Utility or project owner name *

Ex. Kentucky American Water

Contractor name *

Ex. ABC Construction

24 hour contact name *

First Name

Last Name

24 hour contact phone number *

Ex. (859) 425-2255

24 hour contact email address

ex. contact@example.com

How many plates? *

Please put in one or more plates. Ex. 7

Plate placement date *

Nov 13 2019

Expected removal date *

Nov 13 2019

[Submit Form](#)



Steel Plate Information

Address or intersection: _____

Location specifics (examples: in NB lane, in turn lane, in far left lane, in entrance apron, across sidewalk, etc.):

Utility/Project Owner name: _____

Contractor Name: _____

24 hr. Contact name: _____

24 hr. Contact phone number: _____

24 hr. Contact email: _____

How many plates: _____

Plate placement date: _____

Plate removal date (expected): _____

You can also fill out the following information at: <https://www.lexingtonky.gov/steel-plates-form>

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- **Traffic Signal & Fiber Locates**
 - Not associated with 811 – will not get marked.
 - Submit locate request minimum 3 days prior to digging by using:
 - www.lexingtonky.gov/locates



Traffic Engineering

Lane Blockage Permits - Sidewalks too

Required every time a lane is scheduled to be blocked.

Please remind your contractors! – Several repeat offenders.



Traffic Engineering

Lane Blockage Permits - Sidewalks too

Division of Traffic Engineering, Phone:(859) 258-3830

E-mail: lane_blockage@lexingtonky.gov

Website: <https://www.lexingtonky.gov/lane-closure-permit>

Lane blockage permit

The issue of lane blockages and/or closures is an important one because of the concern for the safety of pedestrians, the motoring public and the contractors.

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- utility projects
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- POD
- portable storage container
- large trash receptacle on the street

There is **no charge** for this permit and it is **mandatory** when blocking any portion of a street within Fayette County.

Apply Online



Apply with PDF



Contact

Traffic Engineering

101 E. Vine St.
Lexington, KY

Hours:

Monday – Friday: 8 a.m. – 5 p.m.

Email us

(859) 425-2255

@LexWrecks

Surface Cuts and Paving

- Winter is coming!
- Asphalt Plant to close for the winter season, beginning **December 15th**, estimated.
- Please plan ahead to have as much final asphalt restoration done as possible!



Surface Cuts and Paving

- 2020 Paving season – about 1 month remaining
- Once the asphalt plant closes, the “21-Day cycle” for asphalt restoration stops. Then active permits, and any new permits started while the plant is closed, will be placed on the “60 Day List”.
- When the asphalt plant opens in the spring, these permits must receive final asphalt restoration within 60 days.
 - “60-Day List” and “21Day Cycle” does not apply to long term projects.



Surface Cuts and Paving

- **LFUCG Street Paving**

- Lists of streets to vet are being release frequently.
- To be added to the email distribution for the “Street Paving List” send an email to Rob Allen, Director of Streets and roads, rallen@lexingtonky.gov
- Streets & Roads inspector must be present during all large milling and paving operations, i.e. full lane, intersection, curb to curb (if you are unsure; ask)
 - Contact Bill Osborne to schedule wosborne@lexingtonky.gov



Surface Cuts and Paving

- **LFUCG Street Paving**
 - There have been issues with existing covers/castings not being reset/adjusted after the street has been milled and paved.
 - We need to collaborate on
 - Who's responsibility is it?
 - What are the limits of that responsibility?
 - Having a plan in place for the start of the 2021 paving season.



Surface Cuts and Paving

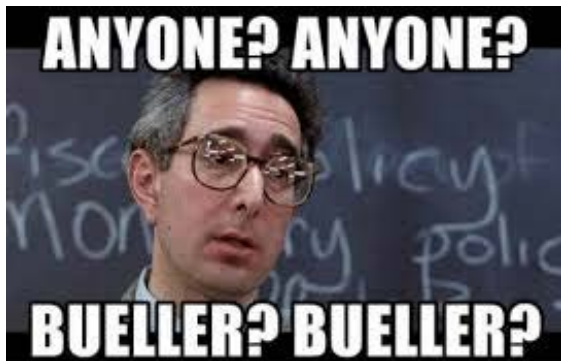
- **Use of Concrete to the surface over a trench:**
 - Requires pre-approval from Engineering and S&R EVERYTIME
 - Requires a signed statement that 2" depth will be milled
 - If plastic is used between the 6" cap and 2" surface – then LFUCG inspector shall be present at the time of the pour.
 - LFUCG inspector shall be present at the time of the milling and paving.
 - Surface must be smooth enough to produce a sufficient ridability

Pavement Restoration Requirement Policy

- I. No longitudinal joints in a bike lane – resurface entire width of bike lane.
- II. No longitudinal joints in tire path of a travel lane— resurface to middle of lane or edge of lane.
 - a) Parking lanes may have longitudinal joints in tire path.
- III. No small areas (a few feet) of existing pavement shall remain between new/new or new/old patches
 - a) Remove existing pavement and make one large patch.
- IV. No small strips (approx. 3’ or less) of existing pavement to remain between new patch and edge of pavement. (exception = parking lane.)

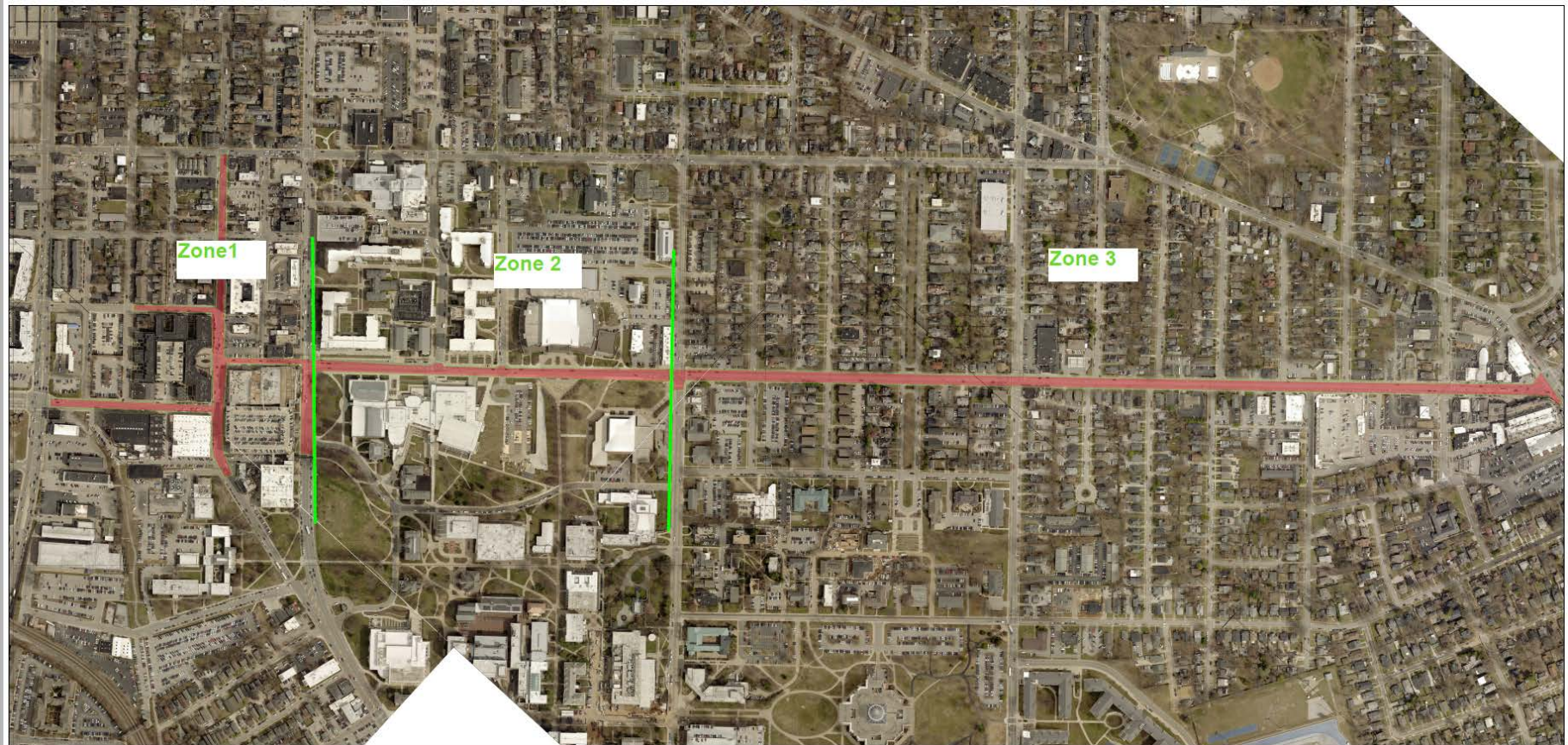
Project Updates

Any organization want to share a project update at this time?



Project Updates

Avenue of Champions Corridor Paving Project



Small Cell Antennas



- **Small Cell Antenna – Application Review**
 - Permitting protocol – additional requirements
 - Street address required
 - Contact Robert Poage, E911 Addressing Office, 859.258-3381, rpoage@lexingtonky.gov
 - A complete 106 Review or documentation stating that a 106 Review is not required.
 - one-half (0.5) mile is the Area of Potential Effect measure for cell towers from the defined Historic Boundary.

Small Cell Antennas

- Is a 106 Review necessary?

In general, NEPA and the NHPA require environmental and historic preservation reviews when a federal agency proposes to undertake, fund or authorize the construction of a project. In the case of wireless facilities, there is no statutory requirement for providers to obtain a permit from the FCC before commencing construction. But by regulation, the FCC has required NEPA and NHPA compliance for wireless facilities that (1) are subject to the antenna structure registration requirements or (2) fall within the “limited approval authority” set forth in the FCC’s rules. FCC approval pursuant to these rules has been treated as federal action for purposes of triggering the requirement for NEPA and NHPA review.

Existing federal, environmental, and historic regulatory processes were designed for the era of macro towers. Currently, cell sites of any size are classified as federal undertakings, subject to federal regulation; they operate on a spectrum licensed by the government. This requires carriers to comply with historic preservation and environmental regulations.



Small Cell Antennas

- Historic District
- <http://maps.lexingtonky.gov/mapit>

The screenshot displays the Lexington, KY online mapping application. The browser address bar shows the URL maps.lexingtonky.gov/mapit. The application header includes the Lexington, KY logo and the tagline "Horse Capital of the World". A "Layers" panel on the left lists various map overlays, with "H-1 Overlay District" selected. The main map area shows a detailed view of Lexington, KY, with the H-1 Overlay District highlighted in yellow. The map includes major roads, landmarks like the Lexington Country Club, and surrounding areas like Nicholasville and Winchester. A toolbar at the top of the map interface provides navigation and map controls.

LEXINGTONKY.GOV
Horse Capital of the World

Welcome Layers

- 2010 Census Tract
- Conditional Zoning
- Council District
- H-1 Overlay District
- Neighborhood Association
- Parcel
- Sewershed
- Voting Precinct
- Watershed
- Zip Code
- Zoning

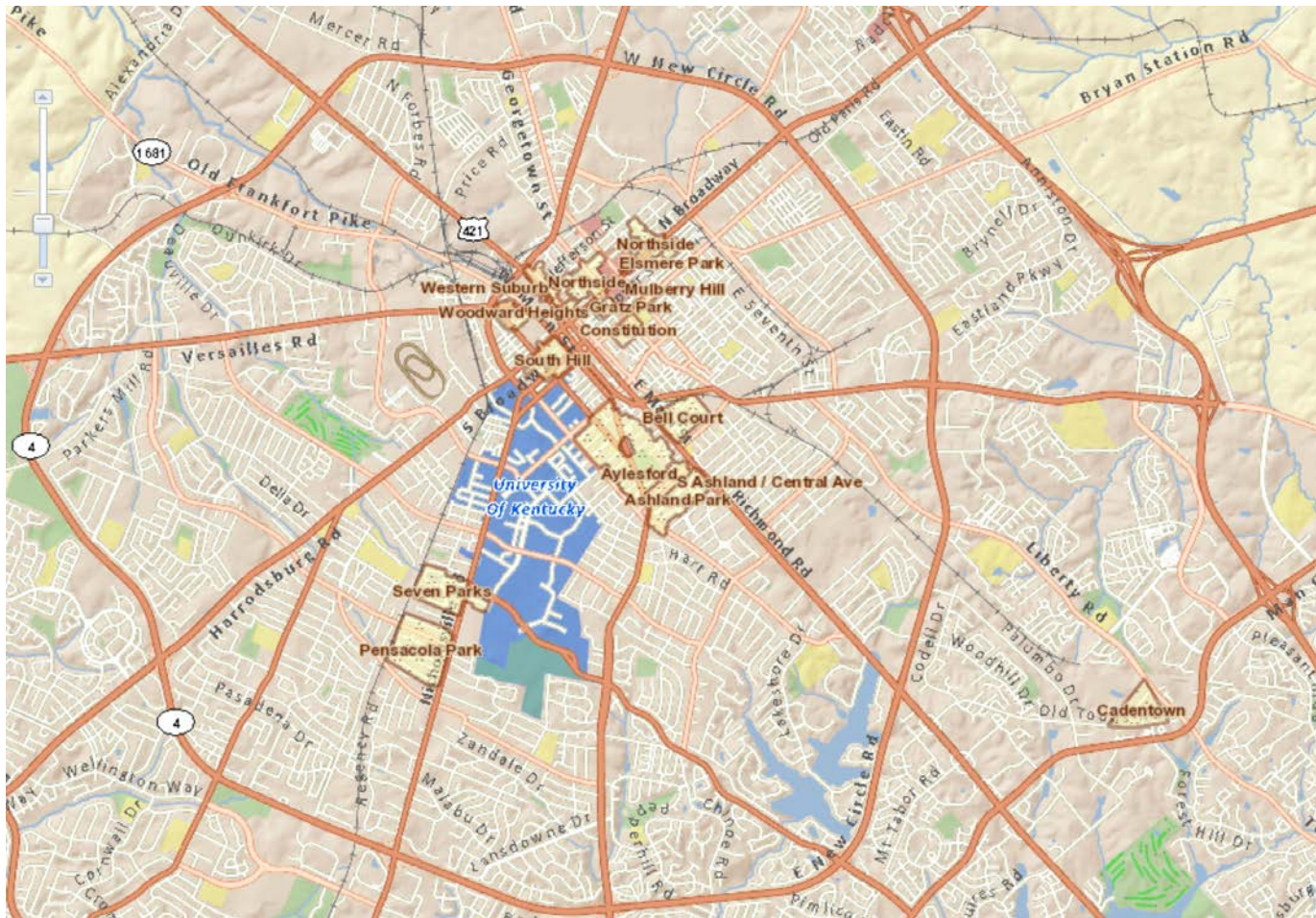
Map Interface: Aerial, Navigation tools (hand, zoom, pan, home, info, print, etc.)

Map Labels: Lexington, Winchester, Nicholasville, Wilmore, Midway, Versailles, etc.

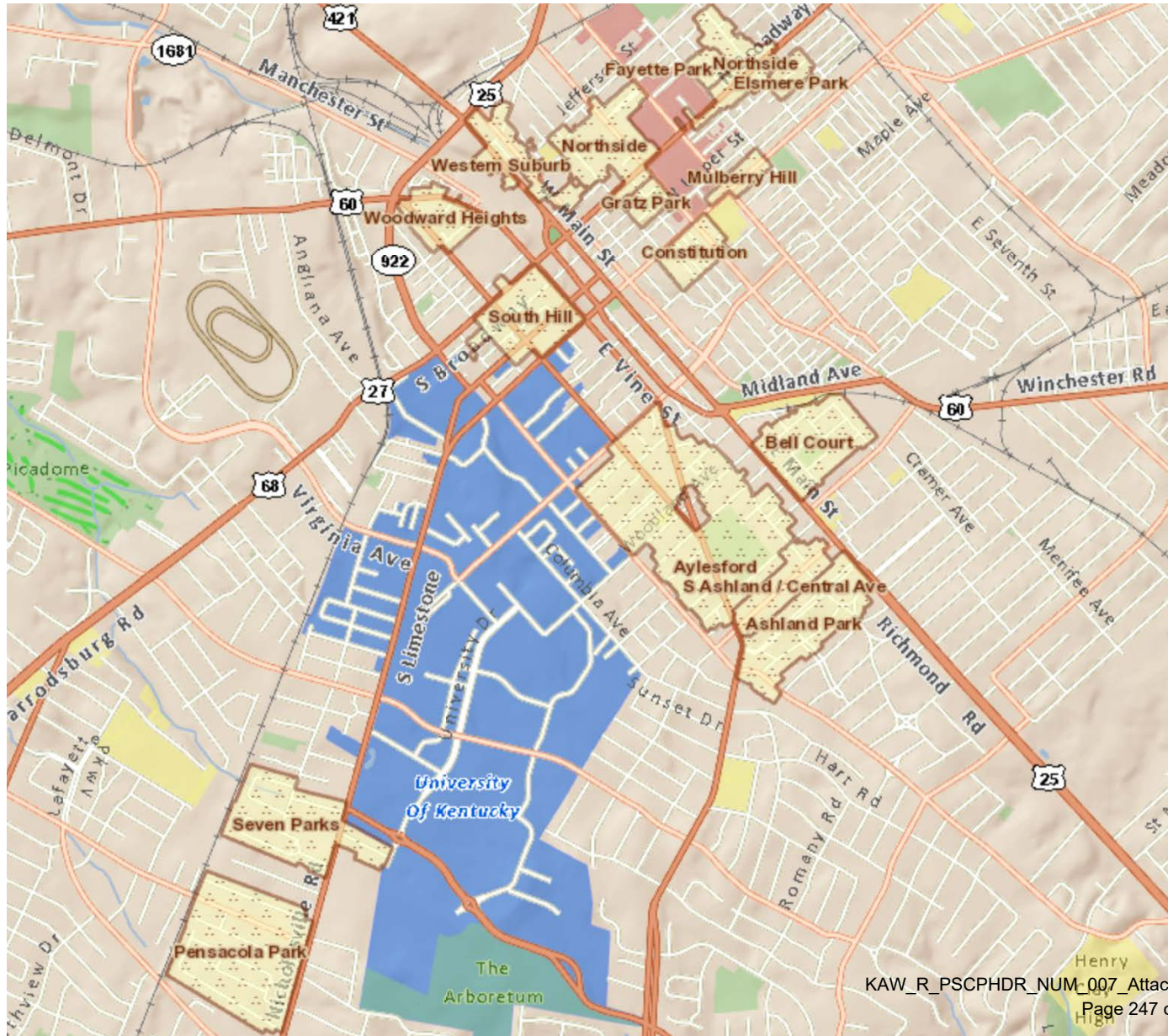
Map Data: KAW_R_PSCPHDR_NUM_007_Attachment Page 245 of 254

Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri

Small Cell Antennas



Small Cell Antennas



Small Cell Antennas



- **Process for Streetlight Decommissioning/Replacement**

1. Third party has a franchise agreement and an executed Streetlight Decommissioning MOU with LFUCG.
2. Third party selects existing street light location (instead of requesting to install a new pole) and works with KU to secure electric service. ***The design should get all equipment and meters on the pole so auxiliary posts/poles and pedestals are eliminated.***
3. Third party submits KU approved plan and the 106 Review findings (or documentation that a 106 Review was not required) to LFUCG for Historic Preservation, Right-of-Way and Traffic Engineering's review and approval. Permit issued; and Letter to Decommission sent to KU.
4. Construction begins.

Small Cell Antennas



Small Cell Antennas



Small Cell Antennas



Small Cell Antennas



Small Cell Antennas



Open Discussion, Questions



**What will YOU add to this
meeting?**

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2021-00090
COMMISSION STAFF'S POST HEARING REQUEST FOR INFORMATION

Witness: **Todd Wright**

3. Provide a schedule with the impact on QIP2 rider charge if Kentucky American used a 13-month average rather than an end-of-year project cost as the basis for the QIP2 rider charge. Provide the schedule in Excel format with all formulas, rows, and columns unprotected and fully accessible.

Response:

Please find the attachment, KAW_R_PSCPHDR_NUM003_061121_Attachment, providing the QIP2 rider charge using a 13-month average methodology in Excel.

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2021-00090
COMMISSION STAFF'S POST HEARING REQUEST FOR INFORMATION

Witness: **Brent O'Neill / Krista Citron**

4. Refer to the Hearing Testimony of Krista Citron, generally. Provide a list of the prequalified contractors to whom Kentucky-American currently solicits bids from on more complex QIP projects.

Response:

For QIP2, projects are categorized as complex if: they are greater than 4,000 linear feet; there are tie-ins to existing mains located in state rights-of-way or large intersections; or there are other unique factors such as locations in historic districts. The projects considered complex will be bid to fewer than KAW's twelve prequalified contractors on the basis of their successful completion of prior KAW projects similar in scope and complexity. That subset of contractors is:

CJ Hughes Construction
Dix & Associates Pipeline Contractors Inc.
Lagco, Inc.
Revivify Service Company, LLC
Todd Johnson Contracting Inc.

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2021-00090
COMMISSION STAFF'S POST HEARING REQUEST FOR INFORMATION

Witness: **Brent O'Neill / Krista Citron**

5. Provide, in narrative form and in a schedule, how the accelerated spend on QIP main replacement impacted the aggregate capital spending in 2020, 2021, and 2022 if available; and if QIP spending is in lieu of capital spending, how is it split between QIP and base rates. Provide the schedule in Excel format with all formulas, rows, and columns unprotected and fully accessible.

Response:

Non-QIP Recurring Project ("RP") line spending was not impacted by the inclusion of QIP. Table 1 shows the total RP spend in each year, 2020 through 2022, as submitted in each five-year business plan Strategic Capital Spending Plan ("SCEP") from 2017 through 2022. The table further shows the breakdown of QIP RP spend compared to non-QIP RP spend in each year. QIP RP lines include B and C budget line projects.

Per Table 1 below, capital spending across non-QIP RP lines remained consistently between \$12.4-14.5 million in 2020, 2021, and 2022. Total RP spending in the 2021 and 2022 SCEPs shows the acceleration of QIP spending on B line main replacements (\$27,461,183 and \$36,517,867 respectively). Both tables discussed below are included in Excel format in KAW_R_PSCPHDR_NUM005_061121_Attachment A.

Table 1

SCEP Year	Category	2020	2021	2022
2017-2021	RP - Non-QIP	\$12,015,000	\$12,015,000	--
	RP - QIP	\$6,700,000	\$6,700,000	--
	Total RP	\$18,715,000	\$18,715,000	\$0
2018-2022	RP - Non-QIP	\$11,324,852	\$11,627,162	\$11,226,145
	RP - QIP	\$7,520,000	\$7,520,000	\$7,520,000
	Total RP	\$18,844,852	\$19,147,162	\$18,746,145
2019-2023	RP - Non-QIP	\$8,803,517	\$12,719,205	\$12,316,494
	RP - QIP	\$5,400,000	\$5,900,000	\$7,599,950
	Total RP	\$14,203,517	\$18,619,205	\$19,916,444
2020-2024	RP - Non-QIP	\$13,715,184	\$13,331,530	\$12,439,439
	RP - QIP	\$3,900,000	\$5,400,000	\$6,900,000
	Total RP	\$17,615,184	\$18,731,530	\$19,339,439
2021-2025	RP - Non-QIP	--	\$12,857,740	\$14,480,183
	RP - QIP	--	\$10,981,000	\$12,981,000
	Total RP	\$0	\$23,838,740	\$27,461,183
2022-2026	RP - Non-QIP	--	--	\$14,417,617
	RP - QIP ¹	--	--	\$22,100,249
	Total RP	\$0	\$0	\$36,517,867

1 - QIP in this SCEP includes F and H budget line spending

Aggregate capital spending includes both RP and Investment Project (“IP”) spend as well as contributions/advances/refunds for new development projects. Since IP spend is tied to specific projects which are typically larger in scope than RP projects, the shifting of these IP projects from year to year has a more noticeable impact on the aggregate capital spend. Table 2 below shows the RP, IP, and total aggregate spend for each year, 2020-2022, as submitted in each five-year business plan SCEP from 2017 through 2022.

The inclusion of QIP spending has increased the total RP spend, without impacting other RP budget lines, as detailed above and in Table 1. QIP spending has no impact on IP spend;

rather, the timing of these IP projects impacts the IP spend and therefore the aggregate capital spend from year to year.

IPs have shifted due to construction timing or other business needs, but not because of QIP acceleration. An example is the UV treatment projects that were initially forecasted to begin in 2022, but have since been moved into 2023-2024 following discussions with the Kentucky Division of Water. This change can be seen in the reduction of projected IP spend from \$13,750,095 in the 2020-2024 business plan to \$4,649,874 in the 2022-2026 business plan.

Table 2

SCEP Year	Category	2020	2021	2022
2017-2021	Total RP	\$18,715,000	\$18,715,000	--
	Total IP	\$8,060,000	\$8,000,000	--
	Aggregate¹	\$24,425,000	\$24,365,000	--
2018-2022	Total RP	\$18,844,852	\$19,147,162	\$18,746,145
	Total IP	\$9,170,538	\$10,990,264	\$13,931,073
	Aggregate¹	\$25,115,390	\$26,637,426	\$29,577,218
2019-2023	Total RP	\$14,203,517	\$18,619,205	\$19,916,444
	Total IP	\$10,750,002	\$7,100,315	\$11,750,002
	Aggregate¹	\$20,628,519	\$21,319,520	\$27,266,446
2020-2024	Total RP	\$17,615,184	\$18,731,530	\$19,339,439
	Total IP	\$13,500,002	\$5,500,067	\$13,750,095
	Aggregate¹	\$26,790,186	\$19,831,597	\$28,689,534
2021-2025	Total RP	--	\$23,838,740	\$27,461,183
	Total IP	--	\$3,198,874	\$5,480,890
	Aggregate¹	--	\$22,362,613	\$28,267,073
2022-2026	Total RP	--	--	\$36,517,867
	Total IP	--	--	\$4,649,874
	Aggregate¹	--	--	\$36,492,737

1 - Includes contributions/advances/refunds

SCEPs for 2017, 2018, 2019, 2020, 2021, and 2022 are included in KAW_R_PSCPHDR_NUM007_061121_Attachment A and show aggregate capital spending for that plan's five-year cycle. The 2022-2026 business plan is currently in the approval process and is not yet finalized.

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2021-00090
COMMISSION STAFF’S POST HEARING REQUEST FOR INFORMATION

Witness: Brent O’Neill / Krista Citron

6. If Kentucky-American’s aggregate capital spending in 2020, 2021, and 2022 is approximately the amount anticipated during the 2018 rate case, explain what happened to other projects identified but not constructed. This response should detail specific projects, and the impact on those projects from changes in capital spending plans, such as increasing category B main replacements/relocations from \$14 million a year to \$20 million.

Response:

Aggregate capital spending includes recurring projects (RPs), investment projects (IPs), and contributions/advances/refunds for new development projects. Each year, KAW reforecasts spending across these categories for the next five years. At the time of the 2018 rate case, KAW’s aggregate capital spending was reflected in the 2017-2021 business plan SCEP, where spending for 2020 and 2021 was \$24,425,000 and \$24,365,000 respectively. Following the rate case and the inclusion of QIP, aggregate capital spending for 2020-2022 is reflected in the SCEPs for 2019-2023 through 2022-2026, and ranges from \$19,831,597 to \$36,492,737. The table below shows the annual capital spending for each year, 2020-2022, as indicated in the business plan SCEPs for 2017 through 2022. These SCEPs are included in KAW_R_PSCPHDR_NUM007_061121_Attachment A.

Annual Aggregate Capital Spending			
SCEP Year	2020	2021	2022
2017-2021	\$24,425,000	\$24,365,000	--
2018-2022	\$25,115,390	\$26,637,426	\$29,577,218
2019-2023	\$20,628,519	\$21,319,520	\$27,266,446
2020-2024	\$26,790,186	\$19,831,597	\$28,689,534
2021-2025	--	\$22,362,613	\$28,267,073
2022-2026	--	--	\$36,492,737

Since IP spend is tied to specific projects which are typically larger in scope than RP projects, the shifting of these IP projects from year to year has a more noticeable impact on the aggregate capital spend. Non-RP line spending has not been impacted by the inclusion of QIP; RP line projects have not been eliminated from the annual capital program.

An example of IP projects that impacted the aggregate capital spending are the chemical buildings which were completed in 2020. These two investment projects were accelerated between the 2017 and 2021 SCEPs: the Richmond Road Station and Kentucky River

Station-1 Chemical Storage and Feed Improvement. Spend that was anticipated to occur for these projects in 2020 and 2021 occurred primarily in 2019 and 2020, accounting for the decrease in budgeted IP spends between the 2017 and 2021 SCEPs. Other IP projects, such as UV treatment facilities at the plants, have been reforecasted to occur in later years compared to the original dates in the 2017 SCEP. The shifting of these IP projects was not a result of the approval of QIP. Please also see the response to Item 5 of these data responses.

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2021-00090
COMMISSION STAFF'S POST HEARING REQUEST FOR INFORMATION

Witness: Brent O'Neill / Krista Citron

7. Refer to the Hearing Testimony of Nick O. Rowe, generally. Provide a copy of documents listing Kentucky-American's capital project needs or requests and their related amounts, in isolation or the aggregate, and any off-budget capital projects that Brent O'Neill or Kurt Stafford formally requested from American Water Company on behalf of Kentucky-American for years 2017, 2018, 2019, 2020, 2021, and 2022 if available. In addition to the documents that evidence Kentucky-American's needs and requests for capital sent to American Water Company, provide all responsive documents from American Water Company to those requests, including documentation evidencing the final allocation of capital for the given periods.

Response:

As indicated at the hearing, a majority of the off-budget capital requests are verbal discussions and inquiries. During the period of 2017 to 2022, Kentucky-American made two requests for additional off-budget capital associated with changes to projects and the overall capital spend for the state. In 2019, Kentucky-American requested an additional \$6.7 Million for changes to three Investment Projects and additional efforts regarding replacement meters. The request was approved during the August 2019 Corporate Capital Program Management Meeting. Following is an excerpt of the August 2019 meeting minutes that indicates the request by Kentucky-American Water:

Month Ending Aug 2019 - One Water CPM Meeting Agenda and Minutes

Meeting Subject: Corporate CPM Meeting & Critical Asset Review

Meeting Date: 10/10/2019 3:30 PM

Location: 4N-Raritan River-4N020

Invitation Message

5. Program Change Requests –

- c. 2019: Kentucky is requesting \$6.7M in additional capex funding.
- Additional \$3.5M for chemical building projects at Richmond Road and Jacobson Reservoir due to increased material costs, instrument and integration costs, and additional engineering and contractor cost because project was accelerated.
 - Additional \$1.5M for increased meter replacement due to defective or non-reading meters throughout the system.
 - Additional \$1.25M for the Athens-Boonesboro Road Relocation Project which was scheduled for 2018, but slipped into 2019 due to coordination with the local transportation agency
 - Additional \$0.75M for the Owenton Wastewater Lagoon Liner which was scheduled for 2018, but slipped into 2019 due to weather conditions (mainly heavy rainfall).
 - Are able to offset a portion of this additional investment in other areas (\$0.3M)

In 2020, Kentucky-American requested an additional \$1.3 to be added to the 2020 Capital Plan to assist with additional spend associated with the Kentucky River Station 1 Tram Replacement Project construction extending into 2020. The request was approved during the March 2020 Corporate Capital Program Management Meeting. Following is an excerpt of the March 2020 meeting minutes that indicates the request by Kentucky-American Water:

Month Ending March 2020 - Corp CPM Meeting Agenda and Minutes

Meeting Date: 4/22/2020 03:30 PM

Location: 862-294-2638,,,7738384#

Outlook Item

Invitation Message:

Save the Date for April Corporate CPM Meeting. Agenda to follow. Rescheduled due to conflicting COVID meeting.

7. Program Change Requests

- C. Kentucky – Requesting additional **\$1.3M** for 2020 Capital Plan

With respect to the documents indicating the needs and requests for capital by KAW to establish the capital allocation, please find attached the Strategic Capital Expenditure Plan (“SCEP”) for each year of the period of 2017 to 2022 that KAW submitted (KAW_R_PSCPHDR_NUM007_061121_Attachment A). Each year, KAW develops a Capital Business Plan of specific capital needs which focuses on the upcoming year and extends into outer years. The Engineering group works with the Vice President Operations, Operations Superintendents and Operations Supervisors to develop the Business Plan before submitting the plan to the KAW President and American Water for consolidation into the capital needs for the American Water enterprise. The KAW Board of Directors then approves the Annual Business Plan.

STRATEGIC CAPITAL EXPENDITURE PLAN

Business Unit Kentucky
 Revision Date May 16, 2016
 Description KY BP 2017-2021 SCEP

Business Unit	Business Unit No.	Project Title	Est. In-Service Date	2017	2018	2019	2020	2021
				Total 2017	Total 2018	Total 2019	Total 2020	Total 2021
RECURRING PROJECTS								
Projects Funded by Others				2,500,000	2,500,000	2,500,000	2,500,000	2,500,000
Kentucky	DV	Mains - New	Annual	313,500	500,000	500,000	500,000	500,000
Kentucky	A	Mains - Replaced / Restored	Annual	2,500,000	1,000,000	500,000	1,000,000	1,000,000
Kentucky	B	Mains - Replaced QIP Program		4,000,000	6,700,000	6,700,000	6,700,000	6,700,000
Kentucky	B2	Mains - Replaced QIP Program		4,000,000	6,700,000	6,700,000	6,700,000	6,700,000
Kentucky	C	Mains - Unscheduled	Annual	335,000	340,000	340,000	340,000	340,000
Kentucky	D	Mains - Relocated	Annual	375,000	350,000	375,000	375,000	375,000
Kentucky	E	Hydrants, Valves, and Manholes - New	Annual	200,100	205,000	210,000	210,000	210,000
Kentucky	F	Hydrants, Valves, and Manholes - Replaced	Annual	352,050	450,000	475,000	475,000	475,000
Kentucky	G	Services and Laterals - New	Annual	988,540	988,540	1,000,000	1,000,000	1,000,000
Kentucky	H	Services and Laterals - Replaced	Annual	452,500	452,500	500,000	500,000	500,000
Kentucky	I	Meters - New	Annual	374,220	339,624	350,000	350,000	350,000
Kentucky	J	Meters - Replaced	Annual	745,725	962,500	800,000	800,000	800,000
Kentucky	K	ITS Equipment and Systems	Annual	376,547	313,437	300,000	300,000	300,000
Kentucky	L	SCADA Equipment and Systems	Annual	250,000	462,000	300,000	300,000	300,000
Kentucky	M	Security Equipment and Systems	Annual	219,083	425,000	230,000	230,000	230,000
Kentucky	N	Offices and Operations Centers	Annual	275,000	250,000	300,000	300,000	300,000
Kentucky	O	Vehicles	Annual	690,000	705,000	660,000	660,000	660,000
Kentucky	P	Tools and Equipment	Annual	176,300	317,050	350,000	350,000	350,000
Kentucky	Q	Process Plant Facilities and Equipment	Annual	1,800,000	1,500,000	1,500,000	1,750,000	1,750,000
Kentucky	S	Engineering Studies	Annual	50,000	75,000	75,000	75,000	75,000
Total Recurring Projects				14,473,565	16,335,651	15,465,000	16,215,000	16,215,000
CENTRALLY SPONSORED PROJECTS								
	R12-01K3	ITS Equipment and Systems - Centrally Sponsored		1,997,303	1,771,856	1,731,738	1,740,655	1,746,600
Total Centrally Sponsored Projects				1,997,303	1,771,856	1,731,738	1,740,655	1,746,600
				2017	2018	2019	2020	2021
				Total 2019	Total 2018	Total 2019	Total 2020	Total 2021
INVESTMENT PROJECTS								
				In Service Date				
Kentucky	I12-020037	KRS1 Chemical Storage and Feed Improvements	12/31/2018	1,100,000	900,000	0	0	0
Kentucky	I12-020039	Georgetown Bypass and US 25 Area	7/30/2018	1,100,000	900,000	0	0	0
Kentucky	I12-020050	Paving Field Ops and Front Entrance	6/30/2017	405,885	0	0	0	0
Kentucky	I12-020051	KRS High Service Pumps Replacement	9/30/2017	1,680,000	1,700,000	800,000	0	0
Kentucky	I12-020053	Pressure Zone Creation - Hays/ Andover/ Winchester	12/31/2020	1,500,000	0	0	0	0
Kentucky	I12-020054	RRS HS Pump Station and Clearwell (\$14 Mil)	12/31/2020	0	0	0	0	500,000
Kentucky	I12-020066	KRS1 Disinfection By Product Control - CT Improvement (\$7.25 Mil)	5/30/2020	0	250,000	4,000,000	3,000,000	0
Kentucky	I12-020067	RRS Chemical Facility Upgrade/ Chlorine (\$10 Mil)	5/30/2021	0	0	500,000	4,000,000	5,500,000
Kentucky	I12-020068	KRS1 Organic Control - Crypto Improvement (\$22.5 Mil)	12/30/2023	0	0	0	500,000	2,000,000
Kentucky	I12-020069	KRS1 Valve House Rehabilitation (Phase 3) - Reeves Drives	5/30/2018	1,000,000	500,000	0	0	0
Kentucky	I12-020070	KRS1 Valve House Rehabilitation (Phase 4) - Reeves Drives	5/30/2019	0	1,000,000	500,000	0	0
Kentucky	I12-020071	KRS1 Valve House Rehabilitation (Phase 5) - Reeves Drives	5/30/2020	0	0	1,000,000	500,000	0
Kentucky	I12-300008	Owenton Distribution Building	9/30/2017	750,000	0	0	0	0
Kentucky	I12-020072	Ford Hampton Transmission Main	12/30/2017	1,400,000	0	0	0	0
Kentucky	I12-000001	Post Acquisition BD Capex		60,000	60,000	60,000	60,000	60,000
Total Investment Projects				8,995,885	5,310,000	6,860,000	8,060,000	8,000,000
Total Contributions/Refunds/Advances				(2,350,000)	(2,350,000)	(2,350,000)	(2,350,000)	(2,350,000)
Gross (RPs, IP's DV)				25,969,449.50	24,145,651.00	24,825,000.00	26,775,000.00	26,715,000.00
plus/minus Contributions				(2,350,000.00)	(2,350,000.00)	(2,350,000.00)	(2,350,000.00)	(2,350,000.00)
Net (RP's, IP's, DV)				23,619,449.50	21,795,651.00	22,475,000.00	24,425,000.00	24,365,000.00

STRATEGIC CAPITAL EXPENDITURE PLAN

Business Unit Kentucky
Description KY BP 2019-2023 SCEP
First Year of Plan 2018

Table with columns for Business Unit, Business Unit No., Project Title, Est. In-Service Date, and years 2018-2022. Includes sections for RECURRING PROJECTS, CENTRALLY SPONSORED PROJECTS, and INVESTMENT PROJECTS with various project details and financial totals.

STRATEGIC CAPITAL EXPENDITURE PLAN

Business Unit Kentucky
 Description **KY BP 2019-2023 SCEP**
 First Year of Plan 2018

Business Unit	Project ID	Project Title	2019	2020	2021	2022	2023
			Total 2019	Total 2020	Total 2021	Total 2022	Total 2023
RECURRING PROJECTS							
Kentucky	DV	Projects Funded by Others	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000
Kentucky	A	Mains - New	566,500	545,000	572,500	575,000	600,000
Kentucky	B	Mains - Replaced / Restored	875,000	1,500,000	1,000,000	1,000,000	1,000,000
Kentucky	B2	QIP - Mains - Replaced / Restored	3,625,000	4,500,000	5,000,000	6,899,950	6,899,950
Kentucky	C	Mains - Unscheduled	900,000	900,000	900,000	900,000	900,000
Kentucky	D	Mains - Relocated	987,550	400,050	387,500	387,500	400,000
Kentucky	E	Hydrants, Valves, and Manholes - New	217,000	228,550	244,525	260,300	260,300
Kentucky	F	Hydrants, Valves, and Manholes - Replaced	492,960	498,960	501,960	504,960	507,960
Kentucky	G	Services and Laterals - New	1,079,105	1,079,105	1,079,105	1,079,105	1,079,105
Kentucky	H	Services and Laterals - Replaced	532,500	532,500	532,500	532,500	532,500
Kentucky	I	Meters - New	800,000	825,000	850,000	850,000	850,000
Kentucky	J	Meters - Replaced	1,516,039	1,142,700	1,220,475	1,010,150	1,106,500
Kentucky	K	ITS Equipment and Systems	246,769	255,552	400,640	282,479	255,371
Kentucky	L	SCADA Equipment and Systems	233,000	333,000	320,000	360,000	450,000
Kentucky	M	Security Equipment and Systems	458,000	130,000	167,000	125,000	125,000
Kentucky	N	Offices and Operations Centers	150,000	150,000	150,000	150,000	150,000
Kentucky	O	Vehicles	680,000	650,000	660,000	660,000	660,000
Kentucky	P	Tools and Equipment	832,100	403,100	308,000	214,500	48,500
Kentucky	Q	Process Plant Facilities and Equipment	2,100,000	2,100,000	1,750,000	1,750,000	1,750,000
Kentucky	R	Capitalized Tank Rehabilitation/Painting	-	-	-	-	-
Kentucky	S	Engineering Studies	75,000	75,000	75,000	75,000	75,000
Corporate	K3	Corporate ITS	3,390,750	2,959,200	2,784,525	2,784,525	2,784,525
		RP	16,366,523.00	16,248,517.00	16,119,205.00	17,416,444.00	17,450,186.00
		RP + K3	19,757,273.00	19,207,717.00	18,903,730.00	20,200,969.00	20,234,711.00
		DV + RP + K3 ITS	22,257,273.00	21,707,717.00	21,403,730.00	22,700,969.00	22,734,711.00
			2019	2020	2021	2022	2023
			Total 2019	Total 2020	Total 2021	Total 2022	Total 2023
INVESTMENT PROJECTS							
		In Service Date					
Kentucky	I12-00001	Post Acquisition BD CapEx - Kentucky					
Kentucky	I12-020037	KRS1 Chemical Storage & Feed Improvements		8,500,001			
Kentucky	I12-020055	New Circle Rd Phase 2	1,000,001				
Kentucky	I12-020059	KRS2 Transfer Switch			1,000,041		
Kentucky	I12-020067	RRS Chemical Facility Upgrade/ Chlorine	10,500,001				
Kentucky	I12-020071	KRS1 Valve House Rehabilitation (Phase 5) - Reeves Drives			1,500,001		
Kentucky	I12-020074	Athens Boonesboro Main Ext - Phase II	200,001				
Kentucky	I12-020076	KRS1 - Replace Incline Car	1,500,007				
Kentucky	I12-020078	Millersburg WW Improvements	700,001				
Kentucky	I12-020079	Jacobson Pump Station Improvements	2,000,001				
Kentucky	I12-020080	KRS1 Pump 10 and 11 Replacements			2,250,270		
Kentucky	I12-020081	KRS1 Pump 14 Replacement				1,500,000	
Kentucky	I12-020082	KRS1 UV Facility				4,500,000	7,000,001
Kentucky	I12-020083	RRS UV Facility					500,000
Kentucky	I12-020085	PAC Feed System and Pretreatment Basin					
Kentucky	I12-020089	Millersburg WQ & Chemical Feed Improvements			850,002		
Kentucky	I12-020093	RRS Field Ops Paving Improvements				750,000	750,001
Kentucky	I12-020094	Cox Street Booster		1,000,000			
Kentucky	I12-300010	KRS2 UV Installation					1,000,000
Kentucky	I12-020098	KRS1 Control room/Clearwell/Pumps				3,500,001	4,000,001
Kentucky	I12-020095	Mercer Road Booster Station			1,000,000		
Kentucky	I12-020096	Mt Horeb Booster Station					750,000
Kentucky	I12-020097	Hall Booster Station				750,000	
Kentucky	I12-030001	ERWA Main Interconnection (Post Acquisition)	355,490	250,000	500,000	750,001	1,000,000
Kentucky	I12-300008	Owenton Distribution Garage		1,000,001			
Kentucky	I12-330001	Owenton WWTP Phosphorous					1,200,050
Total Investment Projects			16,255,501	10,750,002	7,100,315	11,750,002	16,200,054
Total Contributions/Refunds/Advances			(4,675,000)	(4,325,000)	(4,400,000)	(4,400,000)	(4,400,000)
Gross (RPs, IP's DV)			38,512,774	32,457,719	28,504,045	34,450,971	38,934,765
plus/minus Contributions			(4,675,000)	(4,325,000)	(4,400,000)	(4,400,000)	(4,400,000)
Net (RP's, IP's, DV)			33,837,773	28,132,719	24,104,045	30,050,971	34,534,765

STRATEGIC CAPITAL EXPENDITURE PLAN

Business Unit Kentucky
 Description KY BP 2020-2024 SCEP
 First Year of Plan 2020

Business Unit	Project ID	Project Title	2020	2021	2022	2023	2024
			Total 2020	Total 2021	Total 2022	Total 2023	Total 2024
RECURRING PROJECTS							
Kentucky	DV	Projects Funded by Others	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000
Kentucky	A	Mains - New	545,000	573,000	572,500	600,000	600,000
Kentucky	B	Mains - Replaced / Restored	1,000,000	1,500,000	1,000,000	1,000,000	1,000,000
Kentucky	B2	QIP - Mains - Replaced / Restored	3,000,000	4,500,000	6,000,000	7,000,000	7,000,000
Kentucky	C	Mains - Unscheduled	900,000	900,000	900,000	900,000	900,000
Kentucky	D	Mains - Relocated	1,000,000	387,000	387,500	400,050	400,050
Kentucky	E	Hydrants, Valves, and Manholes - New	228,550	244,525	260,300	260,300	260,300
Kentucky	F	Hydrants, Valves, and Manholes - Replaced	498,784	502,784	504,284	506,784	506,784
Kentucky	G	Services and Laterals - New	1,079,105	1,079,105	1,079,105	1,079,105	1,079,105
Kentucky	H	Services and Laterals - Replaced	533,500	533,500	533,500	533,500	533,500
Kentucky	I	Meters - New	825,125	850,425	850,425	850,425	850,425
Kentucky	J	Meters - Replaced	1,142,919	1,220,369	1,010,543	1,106,718	1,106,500
Kentucky	K	ITS Equipment and Systems	380,424	415,822	323,782	362,510	353,169
Kentucky	L	SCADA Equipment and Systems	334,000	320,000	363,000	450,000	353,000
Kentucky	M	Security Equipment and Systems	254,000	262,000	205,000	194,000	200,000
Kentucky	N	Offices and Operations Centers	150,000	150,000	150,000	150,000	150,000
Kentucky	O	Vehicles	650,000	660,000	660,000	650,000	650,000
Kentucky	P	Tools and Equipment	388,777	308,000	214,500	124,500	124,500
Kentucky	Q	Process Plant Facilities and Equipment	2,130,000	1,750,000	1,750,000	1,750,000	1,750,000
Kentucky	R	Capitalized Tank Rehabilitation/Painting	-	-	-	-	-
Kentucky	S	Engineering Studies	75,000	75,000.00	75,000.00	75,000.00	75,000.00
Corporate	K3	Corporate ITS	3,502,019	3,708,000	3,914,000	3,708,000	3,708,000
		RP's	15,115,184.00	16,231,530.00	16,839,439.00	17,992,892.00	17,872,333.00
		RP's + K3	18,617,203.00	19,939,530.00	20,753,439.00	21,700,892.00	21,580,333.00
		DV + RP + K3 ITS	21,117,203.00	22,439,530.00	23,253,439.00	24,200,892.00	24,080,333.00
INVESTMENT PROJECTS							
			Total 2020	Total 2021	Total 2022	Total 2023	Total 2024
		In Service Date					
Kentucky	I12-000001	Post Acquisition BD CapEx - Kentucky	-	-	-	-	-
Kentucky	I12-020037	KRS1 Chemical Storage & Feed Improvements	9,500,001	-	-	-	-
Kentucky	I12-020059	KRS2 Transfer Switch	-	1,000,013	500,001	-	-
Kentucky	I12-020067	RRS Chemical Facility Upgrade/ Chlorine	2,000,000	-	-	-	-
Kentucky	I12-020082	KRS1 UV Facility	-	1,500,001	7,000,006	5,000,624	-
Kentucky	I12-020083	RRS UV Facility	-	-	1,000,000	4,500,001	7,000,002
Kentucky	I12-020093	RRS Field Ops Paving Improvements	-	-	750,006	750,001	-
Kentucky	I12-020094	Cox Street Booster	1,000,000	-	-	-	-
Kentucky	I12-020096	Mt Horeb Booster Station	-	-	-	750,003	-
Kentucky	I12-020095	Mercer Road Booster	-	1,000,000	-	-	-
Kentucky	I12-020097	Hall Booster Station	-	-	750,008	-	-
Kentucky	I12-020100	Briar Hill Area Improvements	-	-	1,000,010	500,001	-
Kentucky	I12-020101	Nicholasville Road Pressure Zone	-	750,013	1,000,042	-	-
Kentucky	I12-020102	KRS1 Low Service Pump Improvements	-	-	-	1,000,094	3,000,383
Kentucky	I12-020103	Clays Mill Booster	-	-	-	-	1,000,000
Kentucky	I12-020104	Newtown Booster	-	-	1,000,018	750,013	-
Kentucky	I12-030001	ERWA Main Interconnection	-	250,005	750,005	1,000,007	-
Kentucky	I12-300008	Owenton Distribution Garage	1,000,001	-	-	-	-
Kentucky	I12-300010	KRS2 UV Installation	-	-	-	1,000,010	3,000,000
Kentucky	I12-300012	Wood Lake VFD Improvements	-	1,000,037	-	-	-
Kentucky	I12-330001	Owenton WWTP Phosphorous	-	-	-	1,200,088	-
		Total Investment Projects	13,500,002	5,500,067	13,750,095	16,450,841	14,000,386
Total Contributions/Refunds/Advances			(4,325,000)	(4,400,000)	(4,400,000)	(4,400,000)	(4,400,000)
Gross (RP's, IP's DV)			31,115,186	24,231,597	33,089,534	36,943,733	34,372,719
plus/minus Contributions			(4,325,000)	(4,400,000)	(4,400,000)	(4,400,000)	(4,400,000)
Net (RP's, IP's, DV)			26,790,186	19,831,597	28,689,534	32,543,733	29,972,719

STRATEGIC CAPITAL EXPENDITURE PLAN
 Business Unit Kentucky
 Description KY BP 2021 - 2025 SCEP
 First Year of Plan 2021

Business Unit	Project ID	Project Title	2021	2022	2023	2024	2025
			Total 2021	Total 2022	Total 2023	Total 2024	Total 2025
RECURRING PROJECTS							
Kentucky	DV	Projects Funded by Others	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000
Kentucky	A	Mains - New	601,751	635,500	557,500	600,000	600,000
Kentucky	B	Mains - Replaced / Restored	500,000	700,000	700,000	700,000	700,000
	B2	Mains - Replaced / Restored (QIP Projects)	10,000,000	12,000,000	12,000,000	12,000,000	12,000,000
Kentucky	C	Mains - Unscheduled	981,000	981,000	981,000	981,000	981,000
Kentucky	D	Mains - Relocated	391,500	387,500	400,000	450,000	450,000
Kentucky	E	Hydrants, Valves, and Manholes - New	247,150	260,300	260,300	260,300	260,300
Kentucky	F	Hydrants, Valves, and Manholes - Replaced	481,700	482,700	490,100	495,000	509,700
Kentucky	G	Services and Laterals - New	1,079,375	1,121,250	1,121,250	1,121,250	1,121,250
Kentucky	H	Services and Laterals - Replaced	534,750	534,750	535,250	517,750	517,750
Kentucky	I	Meters - New	819,424	835,348	851,590	868,157	885,055
Kentucky	J	Meters - Replaced	1,452,528	3,032,116	2,928,453	2,764,637	2,717,338
Kentucky	K	ITS Equipment and Systems	439,376	285,533	359,660	432,662	454,653
Kentucky	L	SCADA Equipment and Systems	491,000	520,000	609,000	616,000	423,000
Kentucky	M	Security Equipment and Systems	448,000	372,000	205,000	280,000	200,000
Kentucky	N	Offices and Operations Centers	254,500	262,000	175,000	190,000	150,000
Kentucky	O	Vehicles	749,999	700,000	700,000	725,000	725,000
Kentucky	P	Tools and Equipment	291,686	276,186	202,686	115,686	115,186
Kentucky	Q	Process Plant Facilities and Equipment	813,000	732,000	729,000	750,000	747,000
	Q2	Process Plant Facilities and Equipment (QIP Projects)	687,000	768,000	771,000	750,000	753,000
Kentucky	S	Engineering Studies	75,000	75,000	75,000	75,000	75,000
Corporate	K3	Corporate ITS	3,708,000	3,432,000	3,432,000	3,432,000	3,432,000
		RPs	21,338,740	24,961,183	24,651,789	24,692,442	24,385,232
		RPs + K3	25,046,740	28,393,183	28,083,789	28,124,442	27,817,232
		DV + RP + K3 ITS	27,546,740	30,893,183	30,583,789	30,624,442	30,317,232
INVESTMENT PROJECTS							
		In Service Date	2021	2022	2023	2024	2025
			Total 2021	Total 2022	Total	Total	Total
Tennessee	I12-020059	KRS2 Transfer Switch	-	991,578	505,604	-	-
Tennessee	I12-020082	KRS1 UV Facility	-	1,486,629	7,192,214	5,282,482	-
Tennessee	I12-020083	RRS - UV Facility	-	-	991,151	4,496,496	7,058,033
Tennessee	I12-020093	Richmond Rd Paving Improvements - Field OP	-	-	-	742,745	750,882
Tennessee	I12-020095	Mercer Rd Booster Station	-	1,117,685	-	-	-
Tennessee	I12-020096	Mt Horeb Booster Station	-	-	-	761,784	-
Tennessee	I12-020097	Hall Booster	-	-	761,784	-	-
Tennessee	I12-020100	Briar Hill Area Improvements	-	-	-	-	1,012,190
Tennessee	I12-020101	Nicholasville Rd Pressure Zone	-	-	743,732	995,639	-
Tennessee	I12-020102	KRS1 Low Service Pump Improvements	-	-	991,015	3,010,091	-
Tennessee	I12-020103	Clays Mill Booster Station	-	-	-	-	1,000,069
Tennessee	I12-020104	Newtown Booster Station	-	-	988,832	709,427	-
Tennessee	I12-030001	ERWA Main Interconnection	-	-	-	-	268,414
Tennessee	I12-300010	KRS2 - UV Facility	-	-	-	-	1,007,647
Tennessee	I12-300012	Woodlake VFD Improvements	-	990,557	-	-	-
#REF!	I12-330001	Owenton WWTP Phosphorous	-	-	1,237,750	-	-
Tennessee	I12-601xxx	Millersburg WWTP	1,738,445	-	-	-	-
Tennessee	I12-021xxx	KRS Replace LS Pump Components	339,156	-	-	-	-
Tennessee	I12-xxxxxx	KRS Replace Dist Electrical Substation #1	-	560,393	-	-	-
Tennessee	I12-xxxxxx	KRS Rpl High Voltage Elect Gear in 3A Bldg	-	334,048	-	-	-
Tennessee	I12-xxxxxx	KRS 1 Solids Handling	-	-	-	-	32,743
Tennessee	I12-020094	Cox Street Booster Station	1,121,272	-	-	-	-
		Total Investment Projects	3,198,874	5,480,890	13,412,082	15,998,664	11,129,979

Contributions	(3,775,000)	(3,775,000)	(3,775,000)	(3,775,000)	(3,775,000)
Advances	(2,000,000)	(2,000,000)	(2,000,000)	(2,000,000)	(2,000,000)
Total Refunds	1,100,000	1,100,000	1,100,000	1,100,000	1,100,000

Gross (RPs, IP's DV)	30,745,613	36,374,073	43,995,871	46,623,106	41,447,211
plus/minus Contributions	(4,675,000)	(4,675,000)	(4,675,000)	(4,675,000)	(4,675,000)
Net (RP's, IP's, DV)	26,070,613	31,699,073	39,320,871	41,948,106	36,772,211

STRATEGIC CAPITAL EXPENDITURE PLAN
 Business Unit Kentucky
 Description KY BP 2022 - 2026 SCEP
 First Year of Plan 2022

Business Unit	Project ID	Project Title	2022	2023	2024	2025	2026
			Total 2022	Total 2023	Total 2024	Total 2025	Total 2026
RECURRING PROJECTS							
Kentucky	DV	Projects Funded by Others	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000
Kentucky	A	Mains - New	750,000	750,000	750,000	750,000	750,000
Kentucky	B	Mains - Replaced / Restored	900,000	900,000	900,000	900,000	900,000
	B2	Mains - Replaced / Restored (QIP Projects)	19,700,000	19,700,000	19,700,000	19,700,000	19,700,000
Kentucky	C	Mains - Unscheduled	981,000	981,000	981,000	981,000	981,000
Kentucky	D	Mains - Relocated	400,000	400,000	400,000	400,000	400,000
Kentucky	E	Hydrants, Valves, and Manholes - New	359,000	359,000	349,850	349,850	349,850
Kentucky	F	Hydrants, Valves, and Manholes - Replaced	800,000	800,000	800,000	800,000	800,000
Kentucky	G	Services and Laterals - New	961,375	945,625	945,625	945,625	945,625
Kentucky	H	Services and Laterals - Replaced	619,250	625,500	613,000	613,000	613,000
Kentucky	I	Meters - New	838,175	858,590	875,157	892,055	892,375
Kentucky	J	Meters - Replaced	3,013,740	2,944,203	2,771,637	2,724,338	2,518,880
Kentucky	K	ITS Equipment and Systems	254,828	376,971	248,410	686,011	341,327
Kentucky	L	SCADA Equipment and Systems	784,000	876,000	878,000	468,000	421,000
Kentucky	M	Security Equipment and Systems	550,000	350,000	350,000	350,000	350,000
Kentucky	N	Offices and Operations Centers	227,000	180,000	210,000	170,000	20,000
Kentucky	O	Vehicles	760,000	760,000	760,000	760,000	760,000
Kentucky	P	Tools and Equipment	316,500	184,000	153,000	298,500	328,000
Kentucky	Q	Process Plant Facilities and Equipment	1,728,000	1,728,000	1,728,000	1,839,000	1,610,000
Kentucky	S	Engineering Studies	75,000	75,000	75,000	75,000	75,000
Corporate	K3	Corporate ITS	3,914,000	3,708,000	3,708,000	-	-
		RPs	34,017,867	33,793,890	33,488,679	33,702,379	32,756,057
		RPs + K3	37,931,867	37,501,890	37,196,679	33,702,379	32,756,057
		DV + RP + K3 ITS	40,431,867	40,001,890	39,696,679	36,202,379	35,256,057
INVESTMENT PROJECTS							
			2022	2023	2024	2025	2026
		In Service Date	Total 2022	Total 2023	Total	Total	Total
Kentucky	I12-020059	KRS2 Transfer Switch	-	-	-	-	988,679
Kentucky	I12-020082	KRS1 UV Facility	-	-	-	-	1,500,313
Kentucky	I12-020083	RRS - UV Facility	-	-	1,116,369	4,608,481	-
Kentucky	I12-020097	Hall Booster	-	-	-	-	283,120
Kentucky	I12-02xxxx	Ford Hampton Booster Station & Tank	1,129,977	-	-	-	-
Kentucky	I12-020102	KRS1 Low Service Pump Improvements	-	-	-	-	1,002,228
Kentucky	I12-300013	Owenton Booster Station	-	-	787,657	236,882	-
Kentucky	I12-300010	KRS2 - UV Facility	689,197	1,716,583	-	-	-
Kentucky	I12-02xxxx	Operation Center Storage Improvements	-	-	335,404	170,321	-
Kentucky	I12-02xxxx	Distribution Yard Improvements	448,376	-	-	-	-
Kentucky	I12-020095	Mercer Rd Booster Station	-	-	285,266	1,127,063	-
Kentucky	I12-02xxxx	KRS 1 Solids Handling Phase I	1,533,811	1,521,371	-	-	-
Kentucky	I12-02xxxx	KRS 1 Solids Handling	-	-	-	-	3,506,481
Kentucky	I12-020094	Cox Street Booster Station	290,225	866,921	-	-	-
Kentucky	I12-02xxxx	Meter Shop Upgrade	335,404	349,306	-	-	-
Kentucky	I12-02xxxx	Winchester Road and Hume Road Loop	222,886	410,845	-	-	-
Kentucky	I12-02xxxx	KRS 1 Treatment Upgrade	-	-	-	-	111,443
		Total Investment Projects	4,649,874	4,865,026	2,524,695	6,142,748	7,392,265

Contributions	(3,775,004)	(3,775,004)	(3,775,000)	(3,775,000)	(3,775,000)
Advances	(2,000,000)	(2,000,000)	(2,000,000)	(2,000,000)	(2,000,000)
Total Refunds	1,100,000	1,100,000	1,100,000	1,100,000	1,100,000

Gross (RPs, IP's DV)	45,081,741	44,866,916	42,221,374	42,345,127	42,648,322
plus/minus Contributions	(4,675,004)	(4,675,004)	(4,675,000)	(4,675,000)	(4,675,000)
Net (RP's, IP's, DV)	40,406,737	40,191,912	37,546,374	37,670,127	37,973,322

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2021-00090
COMMISSION STAFF'S POST HEARING REQUEST FOR INFORMATION

Witness: **Brent O'Neill / Krista Citron**

8. Provide a list of all change orders for paving restoration costs that were denied for recurring and investment projects in the last five years, and provide a reason why each change order was denied.

Response:

There have not been any change orders for paving restoration costs that have been denied in the past five years, because any changes to the project cost on account of pavement restoration are discussed between KAW staff, the LFUCG inspector, and the contractor prior to adjustments to the total project cost. The extent of the pavement restoration is reviewed on site with KAW's inspector and LFUCG's inspector, and the contractor is directed on how much to restore accordingly. The contract adjustments are handled differently depending on the type of project as explained below.

For investment projects: These projects typically occur on KAW properties, such as treatment plant sites, where there are not city roads that must be restored.

For the last five years, most recurring projects were completed utilizing unit price contracts tied to Master Service Agreements (MSAs). In these cases, contractors have a negotiated unit price for pavement restoration, and the project cost is based on that price in conjunction with the actual quantity installed. Any revisions to the quantities are submitted by the contractor, reviewed and approved by KAW's inspector, and the invoices paid accordingly.

For QIP projects, KAW has opted to utilize competitive bidding rather than existing MSAs. When main replacement projects are bid out, the contractors still provide a unit price cost for the estimated quantity of pavement restoration as dictated by LFUCG's standard drawings for trenching and pavement restoration. If the amount of pavement to be replaced exceeds this estimate, then the unit price(s) will be used in conjunction with the quantity of the exceedance to determine the cost of the change order.