

Project Information for Constructability Review



Lamar Avenue (SR-4) Widening, From Raines Road / Perkins Road Interchange to SR-176 (Getwell Rd) in Memphis (IA) (TMA)

TDOT PIN 100340.00

TDOT Project Manager:

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Project Description

Project will be delivered as Design/Bid/Build. Right of Way acquisition is currently on-going and the project will be ready for Letting to Construction in Winter 2026. Utilities will be relocated in contract.

Scope Summary

Proposed improvements include the following:

- Widening of Lamar Avenue from Raines/Perkins Rd. to Getwell Rd from 4-lanes to 6-lanes
- Phased replacement of bridges at Raines/Perkins Rd. over Lamar Ave. and Getwell Rd. over Lamar Ave.
- Temporary widening and full replacement of the Lamar Ave. bridge over BNSF RR
- Construction of Haul Roads for the BNSF RR bridge Construction
- Modification of interchanges at Perkins/Raines Rd. and Getwell Rd.
- New proposed Grade Separated interchange at Winchester Rd. at Lamar Ave.
- Extension and new connection of Pidgeon Roost Rd
- In contract relocation of Electrical, Water, Sanitary Sewer, Gas, and Fiber utilities
- 2 Noise Walls
- 12 Retaining Walls and one Gravity Wall
- Extension of existing box culverts
- New Signals along Raines/Perkins Rd. at Lamar Ave., along Winchester Rd. at Lamar Ave., and along Lamar Ave. at Getwell Rd.
- Proposed Roadway Lighting
- In contract demolition of remaining buildings



- Temporary widening and replacement of BNSF RR Bridge will require coordination with RR
- Relocation of existing Electric Duct Bank under Winchester will require special attention to phasing to provide continuous connection
- Utility easements may be delayed causing TDOT to let the project with a SP107C complicating working location phasing
- Access must be reasonably maintained to existing drives on Lamar during construction

Phase 1A:

1. Construct WB Perkins/Raines Interchange and bridge while maintaining traffic on EB Perkins/Raines
 - a. Temporary signals are required.
2. Construct EB Getwell Bridge while maintaining traffic on WB Getwell

Phase 1B:

1. Construct EB Perkins/Raines interchange & bridge while maintaining traffic on WB Perkins/Raines.
 - a. Temporary signals are required.
2. Construct WB Getwell Bridge while maintaining traffic on EB Getwell.

Phase 2:

1. Strengthen 4' shoulders & install 6' temporary pavement widening along inside of median of EB Rural S.R. 4 (Lamar Ave).
 - a. Remove barriers, medians, and guardrails within workzone.
2. Strengthen 10' outside shoulders of EB Rural S.R. 4 (Lamar Ave).
 - a. Remove barriers, medians, and guardrails within workzone.
3. Construct the temporary bridge for BNSF Bridge.
4. Removal of median along C&G S.R. 4 (Lamar Ave) & Winchester.
 - a. Replace with temporary pavement.
5. Construction of all ramps at the Winchester Interchange without C&G.
 - a. Winchester ramps will maintain two lanes with temporary Pvm't widening up to 22' lanes width.

Phase 3:

1. Maintain two lanes in both directions on EB Rural S.R. 4 (Lamar Ave).
 - a. Construct WB Rural S.R. 4 (Lamar Ave) from BOP until the Winchester interchange.

1. Winchester Ramps to be used as run arounds (with temporary Pvm't widening up to 22') while the Winchester Interchange and Bridge is being constructed.
 - a. Temporary signals are required.
 - b. A sub-phase for Winchester is required for EB and WB.
2. From Winchester to EOP continuing to maintain two lanes in both directions of C&G S.R. 4 (Lamar Ave) using the inside lanes and reinforced median.
 - a. Construction of outside lanes with C&G, slopes while maintain driveway access.
3. North access to be constructed.
4. Getwell Ramps & Clearpool (B) to be improved.
5. Goodlett & Clearpool (A) to be constructed as hammerhead turn around.

Phase 4:

1. Maintain two lanes in both directions on WB Rural S.R. 4 (Lamar Ave).
 - a. Construct EB Rural S.R. 4 (Lamar Ave) from BOP until the Winchester Interchange.
 - b. EB BNSF Bridge to be removed and constructed.
2. Winchester Ramps to be completed after the Winchester Bridge is constructed.
3. From Winchester to EOP continuing to maintain two lanes in both directions of C&G S.R. 4 (Lamar Ave) using the previously constructed outside lanes.
 - a. Construction of inside lanes while maintain driveway access.
 - b. South access to be constructed.

1. Bridge Demolition and Construction
 - a. Do you have any concerns about bridge demolition or construction? (*with partial widening?, 5 new structures, 4 full demos*)
 - b. Do you have any concerns related to foundation construction working room given the proposed traffic phasing?
 - c. The Department is considering different options for setting beams over live traffic, including using detours when possible or allowing temporary closure.
 - i. How long overall do you think it will take to set the Perkins/Raines beams over Lamar Avenue (per beam)?
 - ii. How long overall do you think it will take to set the Lamar Avenue beams over BNSF railroad (per beam)?

iii. How long overall do you think it will take to set the Lamar Avenue beams over Winchester (per beam)?

iv. How long overall do you think it will take to set the Getwell beams over Lamar Avenue (per beam)?

d. What will be your approach to the temporary widening for the BNSAF RR Bridge? Do you anticipate any challenges with working around the RR to complete the widening. Discuss ways to mitigate this challenge.

2. Retaining Walls and Noise Walls

a. Do you anticipate any challenges with the construction of the proposed retaining walls and noise walls?

3. Perkins/Raines Rd. Ramps and Traffic Signal Construction

a. Do you see any challenges to the maintenance of ramp traffic during construction of the permanent ramps and signals?

b. Does the traffic control plan provide sufficient working room to complete the interchange modification?

4. Winchester Ramps and Traffic Signal Construction

a. Do you see any challenges to the maintenance of temporary ramp traffic during construction of the permanent ramps and signals?

b. Does the traffic control plan provide sufficient working room to complete the grade changes?

c. What are the challenges to construct this interchange without shutting down Winchester?

5. Utilities

a. Does the current traffic control phasing allow utility relocations without affecting the phased construction? Where do you see pinch points or areas of concerns when relocating utilities that could potentially delay the project if utilities are not relocated before phasing change?

- b. Based on phasing shown in plans, do you foresee issues with timing of North abutment construction on the Lamar Ave. Bridge over Winchester Ave. in relation to MLGW electric duct relocation. The existing duct must remain in service until the new duct construction is complete, cables in the new duct are energized, and the cables in the existing duct are de-energized. The existing electric duct alignment is in conflict with the North abutment.
 - c. Discuss the phasing impacts for MLGW Electric duct crossing Lamar Avenue north of Winchester. This crossing will be an open cut method of installation at Sta. 575+75 on Lamar Ave., the duct will also be open cut across the proposed entrance and exit ramps from Winchester to Lamar on the north side of the interchange. Are there alternate methods of installation at this location that lessen the impact to traffic and schedule?
 - d. Discuss the phasing of construction at north end of project near Getwell Road with multiple utility relocations (MLGW water and gas). MLGW proposed water main runs approx. 10' LT of centerline from Sta. 593+90 to Sta. 600+00, then bends at 90 degrees and crosses Lamar SB lanes and connects to an existing 12" water main near the right turn lane line. Are there foreseeable issues with installing the water main under the phasing shown in the plans?
 - e. There is a strong possibility that there will be some utility easements still being acquired at the time of construction. Discuss ways this risk can be mitigated and how you think it will affect your overall ability to deliver the schedule.
6. Staging and Material Storage
- a. Do you anticipate any staging or material storage issues with the project footprint?
7. Do you have any ideas for implementing innovation that may expedite the overall project completion, improve constructability, or reduce project cost that we may not have already discussed?