

Appendix C – Interchange Construction Phasing

This Appendix presents conceptual construction phasing plans for the construction of two proposed interchanges – the Route 19 interchange (Exit 175) and the Route 40/61 interchange (Exit 210). Construction of the Route 19 interchange would generally be typical of the construction phasing for most of the rural interchanges. The Route 40/61 interchange is considerably more complex, and would require 6 distinct phases. For all interchanges, construction will be staged in such a way that all through lanes on I-70 will remain open to traffic.

Construction Phasing for Route 19 Interchange

IMPROVE



**SECOND TIER ENVIRONMENTAL
IMPACT STUDY
SECTION OF INDEPENDENT
UTILITY NO. 7**

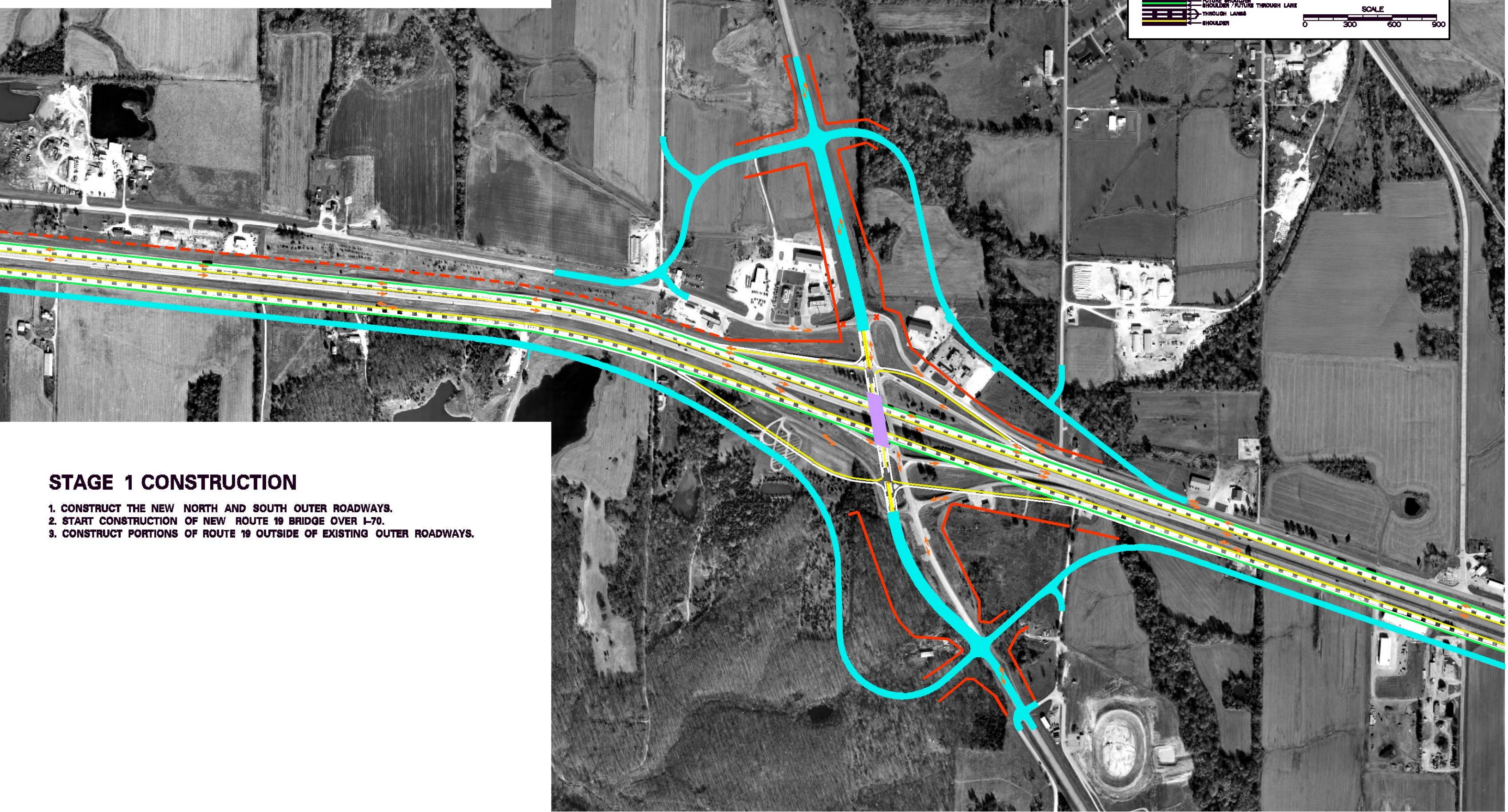
STAGE 1 CONSTRUCTION ROUTE 19

LEGEND

- ROADWAY CONSTRUCTION THIS PHASE
- ROADWAY CONSTRUCTION COMPLETED
- BRIDGE CONSTRUCTION THIS PHASE
- BRIDGE CONSTRUCTION COMPLETED
- DETOUR / CROSSOVER
- TRAFFIC MOVEMENTS / LOCATIONS

FUTURE SHOULDER
SHOULDER / FUTURE THROUGH LANE
THROUGH LANES
SHOULDER

SCALE
0 300 600 900



STAGE 1 CONSTRUCTION

1. CONSTRUCT THE NEW NORTH AND SOUTH OUTER ROADWAYS.
2. START CONSTRUCTION OF NEW ROUTE 19 BRIDGE OVER I-70.
3. CONSTRUCT PORTIONS OF ROUTE 19 OUTSIDE OF EXISTING OUTER ROADWAYS.

IMPROVE



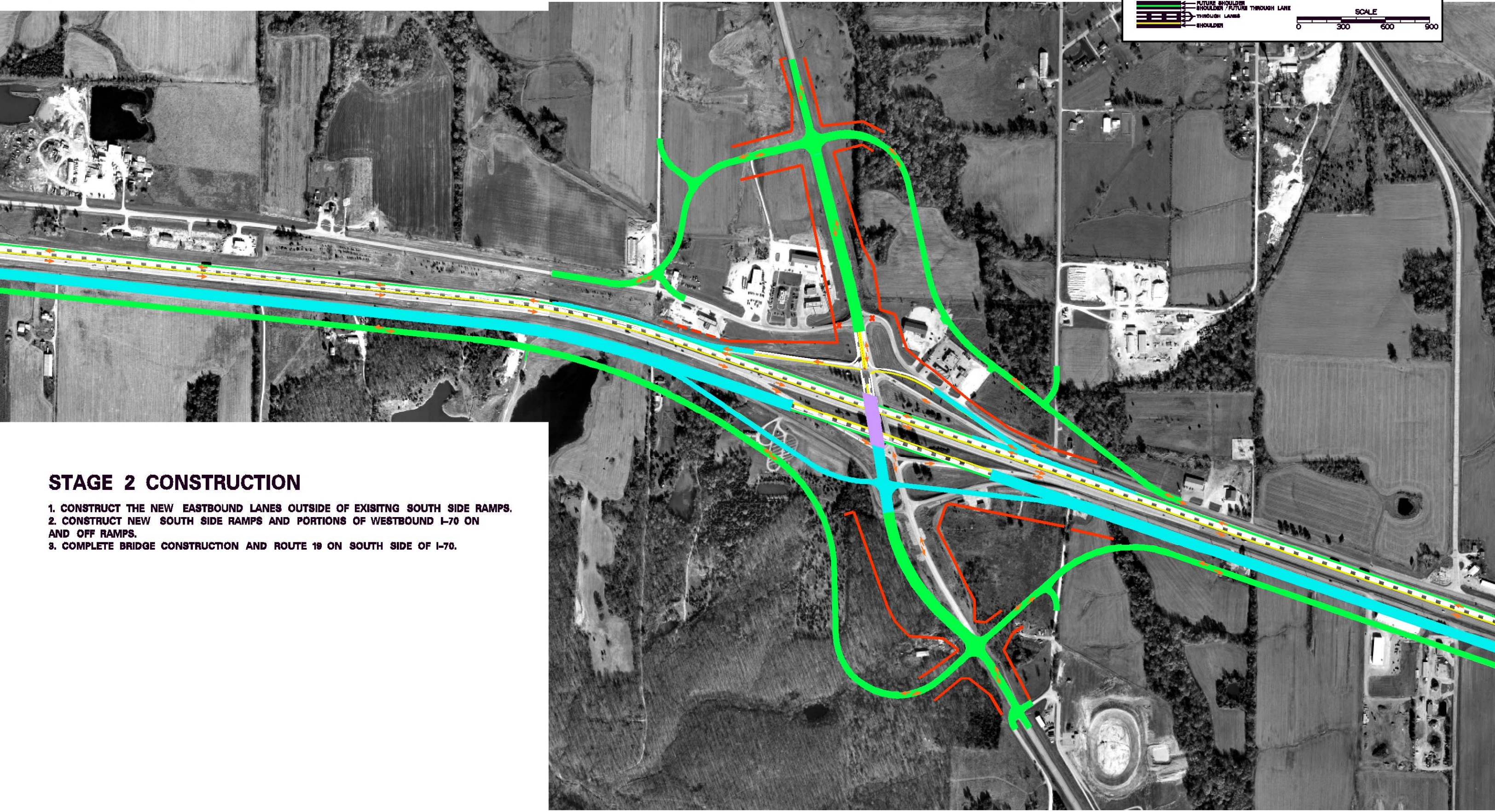
**SECOND TIER ENVIRONMENTAL
IMPACT STUDY
SECTION OF INDEPENDENT
UTILITY NO. 7**

STAGE 2 CONSTRUCTION ROUTE 19

LEGEND

- ROADWAY CONSTRUCTION THIS PHASE
- ROADWAY CONSTRUCTION COMPLETED
- BRIDGE CONSTRUCTION THIS PHASE
- BRIDGE CONSTRUCTION COMPLETED
- DETOUR /CROSSOVER
- TRAFFIC MOVEMENTS /LOCATIONS

SCALE
0 300 600 900



STAGE 2 CONSTRUCTION

1. CONSTRUCT THE NEW EASTBOUND LANES OUTSIDE OF EXISTING SOUTH SIDE RAMPS.
2. CONSTRUCT NEW SOUTH SIDE RAMPS AND PORTIONS OF WESTBOUND I-70 ON AND OFF RAMPS.
3. COMPLETE BRIDGE CONSTRUCTION AND ROUTE 19 ON SOUTH SIDE OF I-70.

IMPROVE

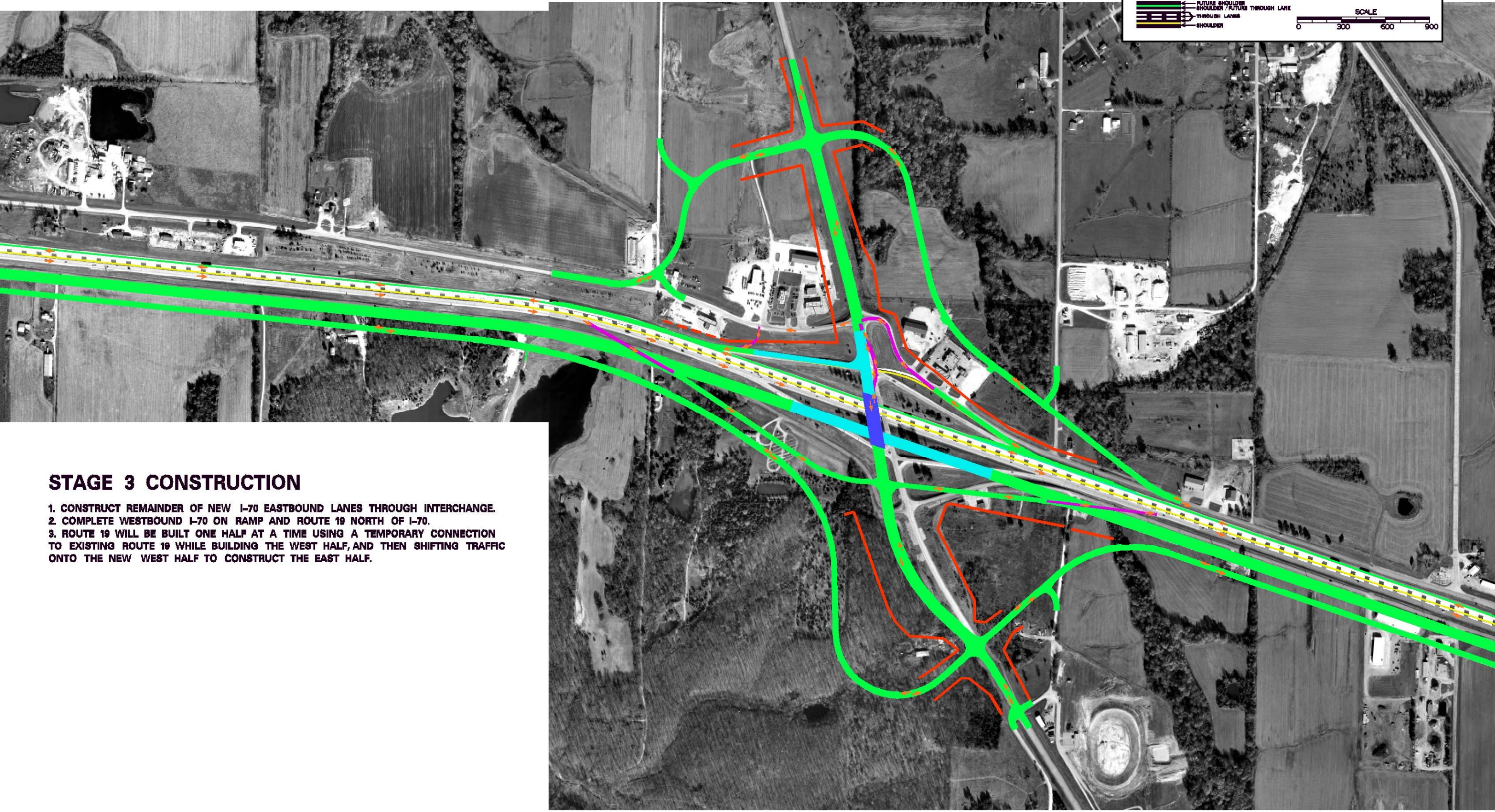


**SECOND TIER ENVIRONMENTAL
IMPACT STUDY
SECTION OF INDEPENDENT
UTILITY NO. 7**

STAGE 3 CONSTRUCTION ROUTE 19

LEGEND

-  ROADWAY CONSTRUCTION THIS PHASE
-  ROADWAY CONSTRUCTION COMPLETED
-  BRIDGE CONSTRUCTION THIS PHASE
-  BRIDGE CONSTRUCTION COMPLETED
-  DETOUR /CROSSOVER
-  TRAFFIC MOVEMENTS /LOCATIONS



STAGE 3 CONSTRUCTION

1. CONSTRUCT REMAINDER OF NEW I-70 EASTBOUND LANES THROUGH INTERCHANGE.
2. COMPLETE WESTBOUND I-70 ON RAMP AND ROUTE 19 NORTH OF I-70.
3. ROUTE 19 WILL BE BUILT ONE HALF AT A TIME USING A TEMPORARY CONNECTION TO EXISTING ROUTE 19 WHILE BUILDING THE WEST HALF, AND THEN SHIFTING TRAFFIC ONTO THE NEW WEST HALF TO CONSTRUCT THE EAST HALF.

IMPROVE



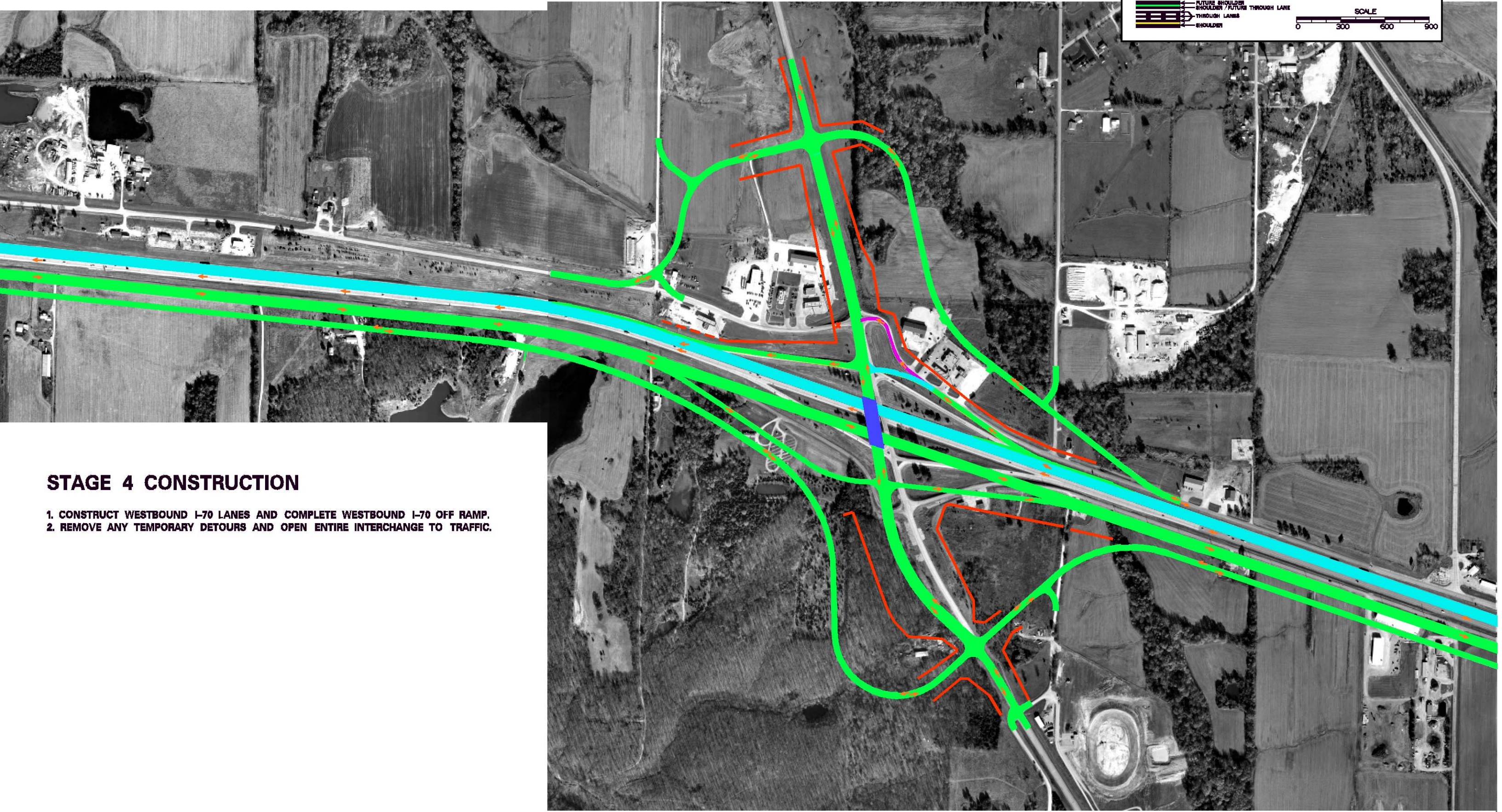
**SECOND TIER ENVIRONMENTAL
IMPACT STUDY
SECTION OF INDEPENDENT
UTILITY NO. 7**

STAGE 4 CONSTRUCTION ROUTE 19

LEGEND

- ROADWAY CONSTRUCTION THIS PHASE
- ROADWAY CONSTRUCTION COMPLETED
- BRIDGE CONSTRUCTION THIS PHASE
- BRIDGE CONSTRUCTION COMPLETED
- DETOUR / CROSSOVER
- TRAFFIC MOVEMENTS / LOCATIONS

SCALE
0 300 600 900



STAGE 4 CONSTRUCTION

- 1. CONSTRUCT WESTBOUND I-70 LANES AND COMPLETE WESTBOUND I-70 OFF RAMP.
- 2. REMOVE ANY TEMPORARY DETOURS AND OPEN ENTIRE INTERCHANGE TO TRAFFIC.

IMPROVE



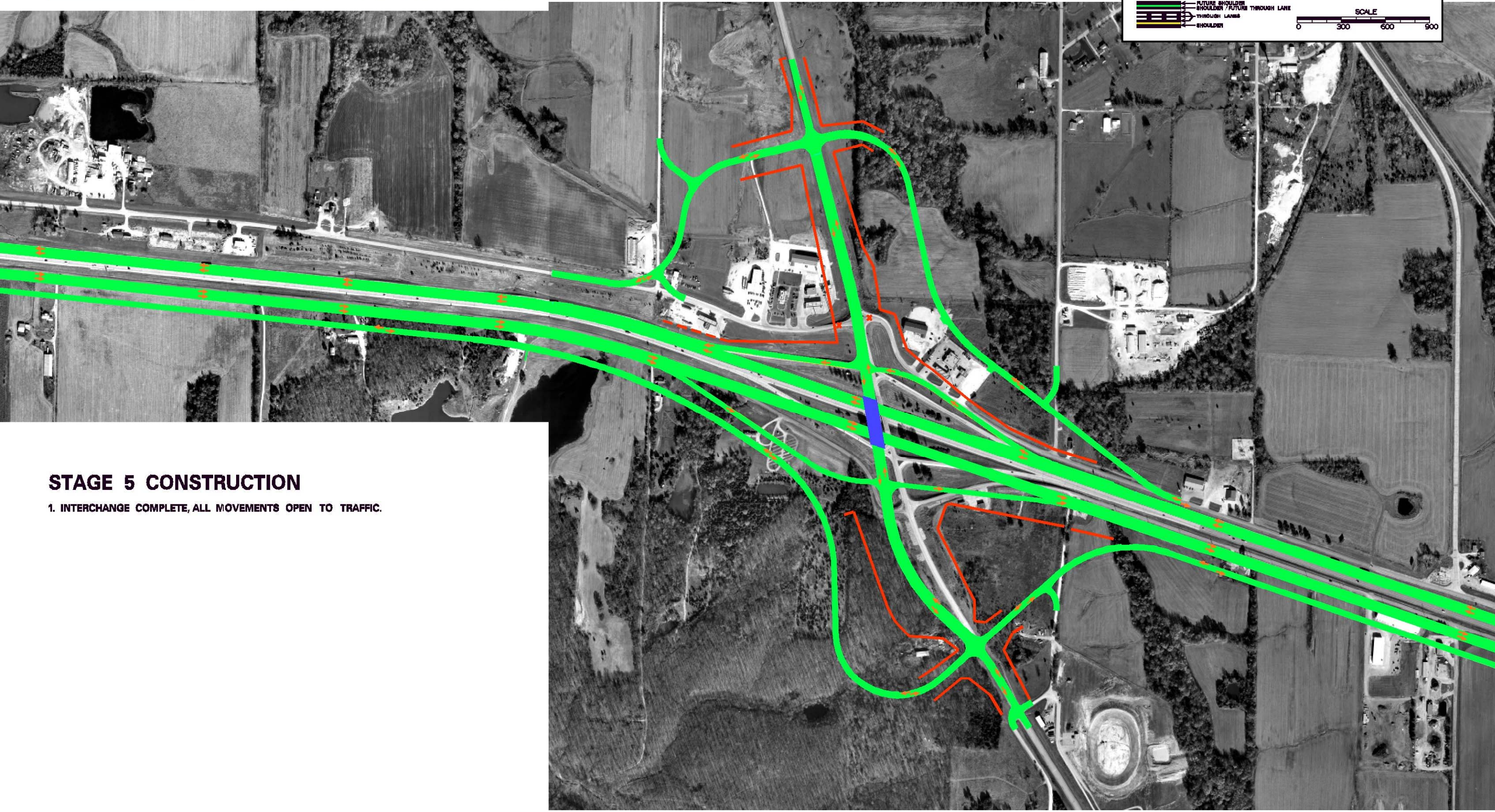
**SECOND TIER ENVIRONMENTAL
IMPACT STUDY
SECTION OF INDEPENDENT
UTILITY NO. 7**

STAGE 5 CONSTRUCTION ROUTE 19

LEGEND

- ROADWAY CONSTRUCTION THIS PHASE
- ROADWAY CONSTRUCTION COMPLETED
- BRIDGE CONSTRUCTION THIS PHASE
- BRIDGE CONSTRUCTION COMPLETED
- DETOUR /CROSSOVER
- TRAFFIC MOVEMENTS /LOCATIONS

SCALE
0 300 600 900



STAGE 5 CONSTRUCTION

1. INTERCHANGE COMPLETE, ALL MOVEMENTS OPEN TO TRAFFIC.

Construction Phasing for Route 40/61 Interchange

IMPROVE



**SECOND TIER ENVIRONMENTAL
IMPACT STUDY
SECTION OF INDEPENDENT
UTILITY NO. 7
STAGE 1 CONSTRUCTION
US 40 /61 INTERCHANGE**

LEGEND

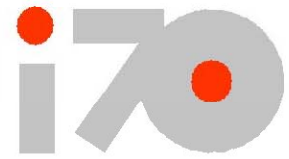
-  ROADWAY CONSTRUCTION THIS PHASE
-  ROADWAY CONSTRUCTION COMPLETED
-  BRIDGE CONSTRUCTION THIS PHASE
-  BRIDGE CONSTRUCTION COMPLETED
-  DETOUR /CROSSOVER
-  TRAFFIC MOVEMENTS /LOCATIONS



STAGE 1 CONSTRUCTION

1. WIDEN EXISTING ROUTE Z AND CONSTRUCT RAMP 1 AND PORTION OF RAMP 3 UNDER TRAFFIC.
2. CONSTRUCT PORTION OF EB I-70 TO SB US 61 RAMP.
3. CONSRUCT NEW ALIGNMENT OF NORTH OUTER ROAD.
4. CONSTRUCT BRIDGE OVER FUTURE NB AND SB US 61 AND PORTIONS OF RAMP FROM SB US 61 TO EB I-70.
5. CONSTRUCT BRIDGES OVER I-70 FOR NB AND SB US 61 AND RAMP FROM EB I-70 TO NB US 61.
6. CONSTRUCT BRIDGE AND PORTION SB US 61 TO WB I-70 RAMP.

IMPROVE



**SECOND TIER ENVIRONMENTAL
IMPACT STUDY
SECTION OF INDEPENDENT
UTILITY NO. 7
STAGE 2 CONSTRUCTION
US 40 /61 INTERCHANGE**

LEGEND

-  ROADWAY CONSTRUCTION THIS PHASE
-  ROADWAY CONSTRUCTION COMPLETED
-  BRIDGE CONSTRUCTION THIS PHASE
-  BRIDGE CONSTRUCTION COMPLETED
-  DETOUR / CROSSOVER
-  TRAFFIC MOVEMENTS / LOCATIONS

-  FUTURE SHOULDER
-  SHOULDER / FUTURE THROUGH LANE
-  THROUGH LANES
-  SHOULDER

SCALE
0 300 600 900

STAGE 2 CONSTRUCTION

1. CONSTRUCT PORTIONS OF NB AND SB US 61.
2. CONSTRUCT RAMP FROM NB US 61 TO EB I-70, KEEPING EXISTING RAMP OPEN.
3. CONSTRUCT PORTION OF RAMP FROM SB US 61 TO WB I-70.
4. DETOUR TRAFFIC FROM EXISTING SB US 61 TO EB I-70 RAMP ONTO NEW ALIGNMENT.

IMPROVE



**SECOND TIER ENVIRONMENTAL
IMPACT STUDY
SECTION OF INDEPENDENT
UTILITY NO. 7
STAGE 3 CONSTRUCTION
US 40 /61 INTERCHANGE**

LEGEND

-  ROADWAY CONSTRUCTION THIS PHASE
-  ROADWAY CONSTRUCTION COMPLETED
-  BRIDGE CONSTRUCTION THIS PHASE
-  BRIDGE CONSTRUCTION COMPLETED
-  DETOUR /CROSSOVER
-  TRAFFIC MOVEMENTS /LOCATIONS

-  FUTURE SHOULDER
-  SHOULDER / FUTURE THROUGH LANE
-  THROUGH LANES
-  SHOULDER

SCALE
0 300 600 900

STAGE 3 CONSTRUCTION

1. CONSTRUCT RAMP AND BRIDGES FOR NB US 61 TO WB I-70 TRAFFIC.
2. DETOUR TRAFFIC FROM NEW NB US 61 ONTO NEW SB US 61.
3. CLOSE EXISTING RAMP FROM NB US 61 TO WB I-70 AND CONSTRUCT TEMPORARY RAMP OFF OF NEW SB US 61 LANES TO EXISTING RAMP. DETOUR TRAFFIC AROUND NEW NB US 61 TO WB I-70 RAMP BRIDGE.
4. CLOSE EXISTING RAMP FROM EB I-70 TO NB US 61, AND CONSTRUCT NEW RAMP.
5. FINISH CONSTRUCTION OF NEW NB US 61 ALIGNMENT.
6. CONSTRUCT NEW RAMP FROM WB I-70 TO NB US 61 KEEPING TRAFFIC ON EXISTING RAMP.
7. CONTINUE TO DETOUR TRAFFIC FROM EXISTING SB US 61 TO WB I-70 ONTO NEW ALIGNMENT.
8. CONSTRUCT NEW RAMP AND BRIDGE FROM NB US 61 TO EXISTING PITMAN ROAD.
9. WIDEN NB US 61 BRIDGE OVER PITMAN ROAD.

IMPROVE



**SECOND TIER ENVIRONMENTAL
IMPACT STUDY
SECTION OF INDEPENDENT
UTILITY NO. 7
STAGE 4 CONSTRUCTION
US 40 /61 INTERCHANGE**

LEGEND

-  ROADWAY CONSTRUCTION THIS PHASE
-  ROADWAY CONSTRUCTION COMPLETED
-  BRIDGE CONSTRUCTION THIS PHASE
-  BRIDGE CONSTRUCTION COMPLETED
-  DETOUR /CROSSOVER
-  TRAFFIC MOVEMENTS /LOCATIONS



STAGE 4 CONSTRUCTION


1. FINISH CONSTRUCTION OF WB I-70 EXIT TO ROUTE Z.
2. CONSTRUCT DETOUR FOR TRAFFIC FROM EB I-70 TO SB US 61.
3. FINISH CONSTRUCTION OF RAMP FROM EB I-70 TO SB US 61
4. CONSTRUCT RAMP FROM WB I-70 TO SB US 61.
5. FINISH CONSTRUCTION OF RAMP FROM SB US 61 TO EB I-70 UNDER TRAFFIC. CONTINUE TO DETOUR TRAFFIC FROM EXISTING SB US 61 TO EB I-70 ONTO NEW ALIGNMENT.
6. FINISH AND OPEN RAMP FROM SB US 61 TO WB I-70 USING DETOUR.
7. CONSTRUCT RAMP FROM PITMAN ROAD TO EB I-70 AND SB US 61.

IMPROVE



**SECOND TIER ENVIRONMENTAL
IMPACT STUDY
SECTION OF INDEPENDENT
UTILITY NO. 7
STAGE 5 CONSTRUCTION
US 40 /61 INTERCHANGE**

LEGEND

-  ROADWAY CONSTRUCTION THIS PHASE
-  ROADWAY CONSTRUCTION COMPLETED
-  BRIDGE CONSTRUCTION THIS PHASE
-  BRIDGE CONSTRUCTION COMPLETED
-  DETOUR /CROSSOVER
-  TRAFFIC MOVEMENTS /LOCATIONS



STAGE 5 CONSTRUCTION

1. FINISH CONSTRUCTION OF SB US 61 USING DETOUR ONTO PORTION OF NEW NB US 61 LANES.
2. CONSTRUCT BRIDGE ON RAMP FROM SB US 61 TO EB I-70 USING DETOUR ONTO RAMP FROM PITMAN ROAD TO SB US 61.

IMPROVE



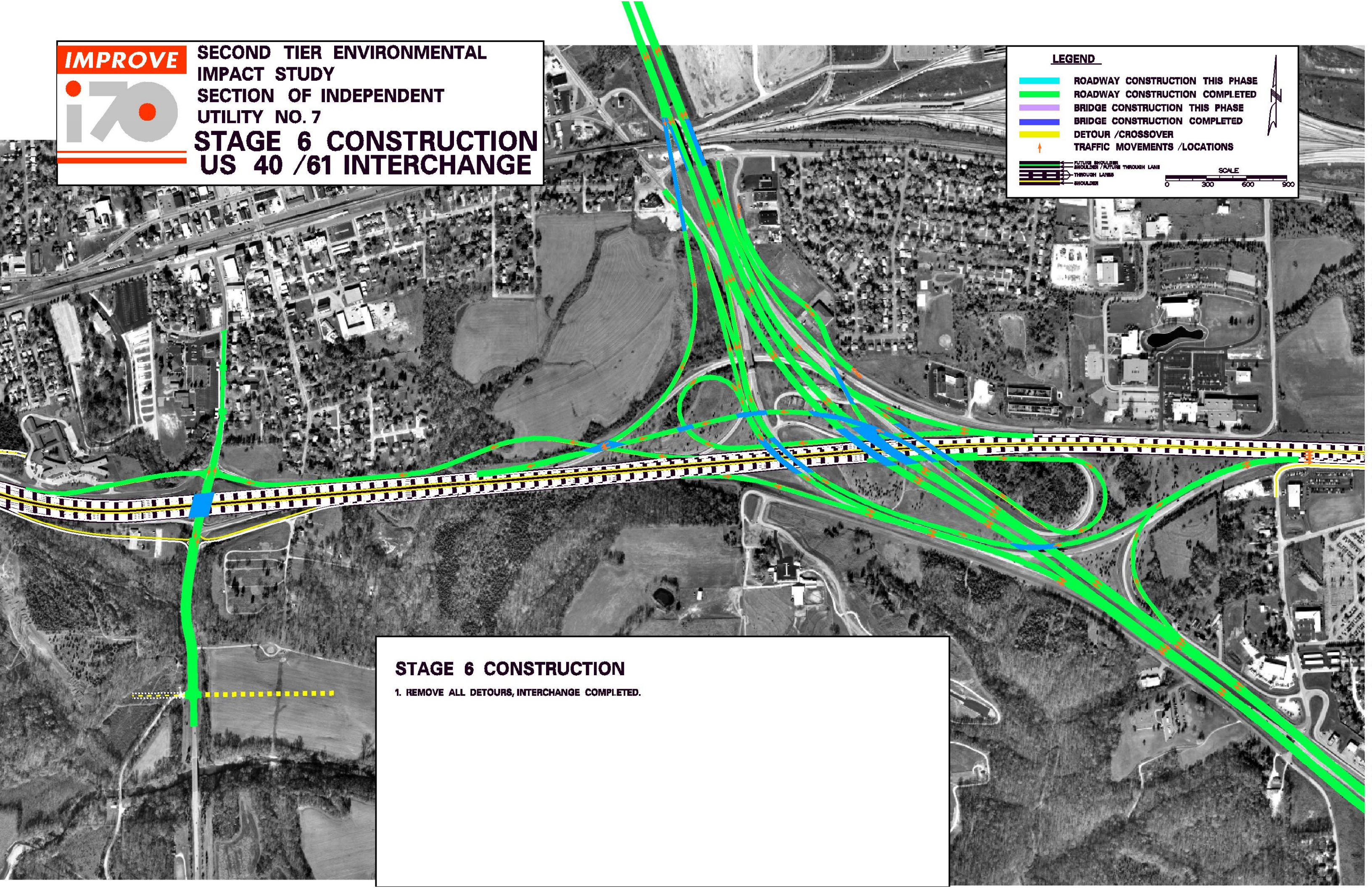
**SECOND TIER ENVIRONMENTAL
IMPACT STUDY
SECTION OF INDEPENDENT
UTILITY NO. 7
STAGE 6 CONSTRUCTION
US 40 /61 INTERCHANGE**

LEGEND

- ROADWAY CONSTRUCTION THIS PHASE
- ROADWAY CONSTRUCTION COMPLETED
- BRIDGE CONSTRUCTION THIS PHASE
- BRIDGE CONSTRUCTION COMPLETED
- DETOUR /CROSSOVER
- TRAFFIC MOVEMENTS /LOCATIONS

FUTURE SHOULDER
SHOULDER /FUTURE THROUGH LANE
THROUGH LANES
SHOULDER

SCALE
0 300 600 900



STAGE 6 CONSTRUCTION
1. REMOVE ALL DETOURS, INTERCHANGE COMPLETED.