

Plot: 4/14/2022 9:06 PM

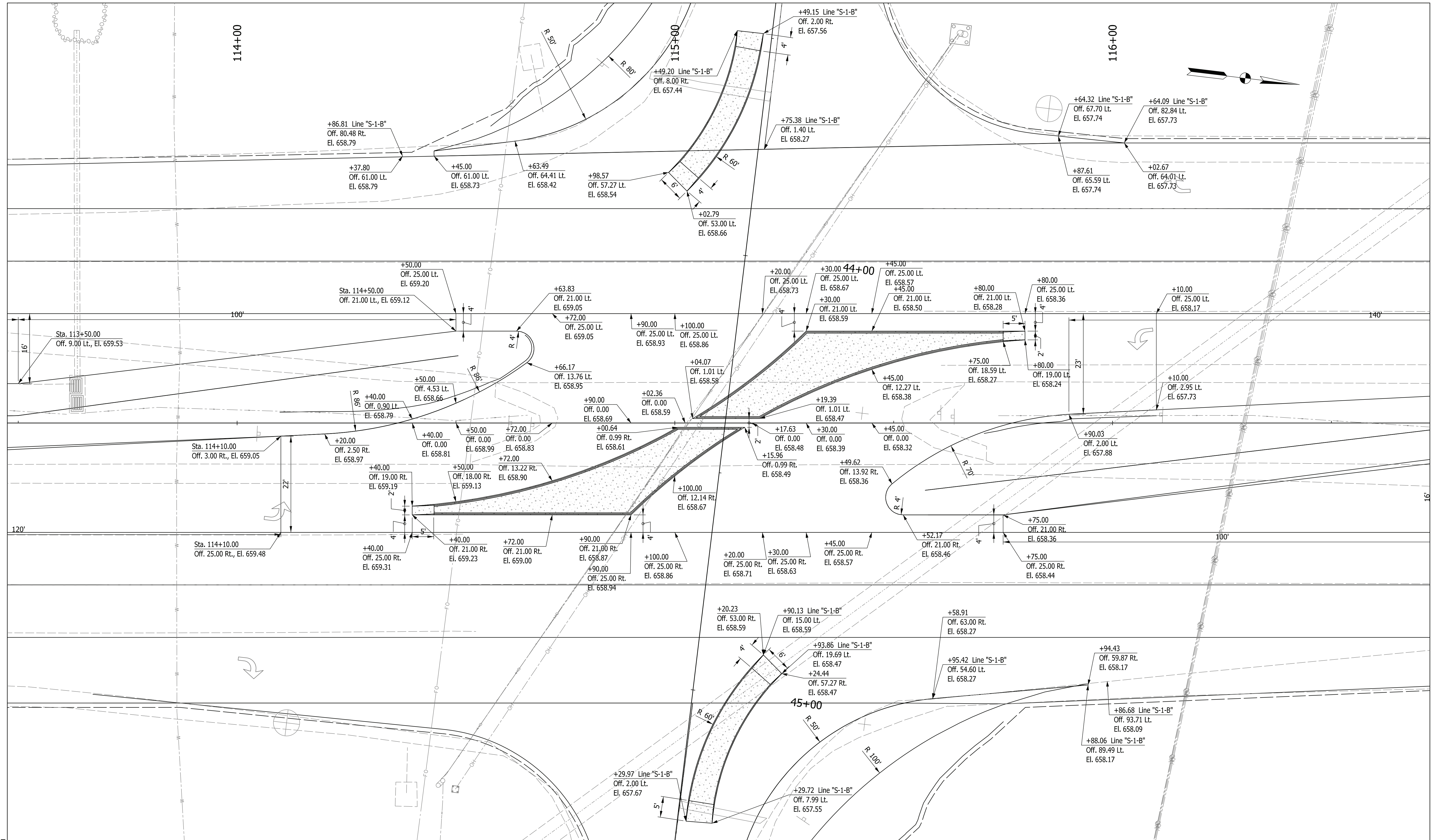
File: pw:\indot-pw.bentley.com\indot-pw-01\Documents\Seymour\1800371\Design\MS\Sht PlanDetails_10_1_P1.dgn
Model: Default

| | | |
|--------------------------|-----------------|--------------|
| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: CPM | March 2022 | DRAWN: CPM |
| CHECKED: MRS | March 2022 | CHECKED: MRS |
| | March 2022 | |

INDIANA
DEPARTMENT OF TRANSPORTATION

**SOUTH MEDIAN U-TURN DETAILS
AND SPOT DETAILS**

| | |
|----------|-------------|
| SCALE | BRIDGE FILE |
| 1"=10' | DESIGNATION |
| | 1800371 |
| | SHEETS |
| | 22 of 51 |
| CONTRACT | PROJECT |
| R-42414 | 1800371 |



Plot: 4/14/2022 9:06 PM

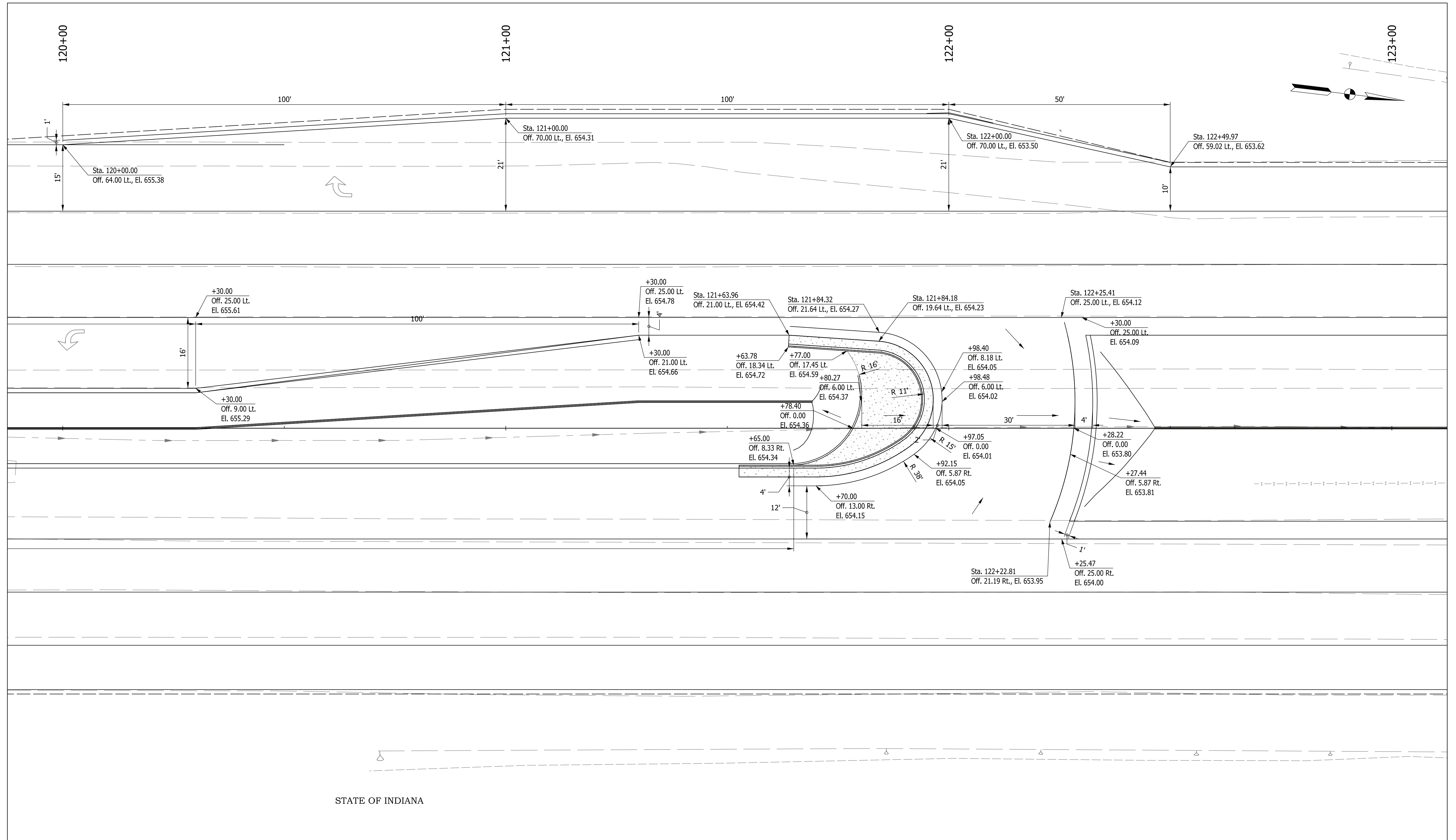
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| | | |
|--------------------------|-----------------|--------------|
| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: CPM | March 2022 | DRAWN: CPM |
| March 2022 | | March 2022 |
| CHECKED: MRS | March 2022 | CHECKED: MRS |
| | | March 2022 |

**INDIANA
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION DETAILS
AND SPOT DETAILS**

| | |
|---------------------|------------------------|
| SCALE 1"=10' | BRIDGE FILE |
| | DESIGNATION 1800371 |
| | SHEETS 23 of 51 |
| CONTRACT R-42414 | PROJECT 1800371 |



STATE OF INDIANA

Plot: 4/14/2022 9:06 PM

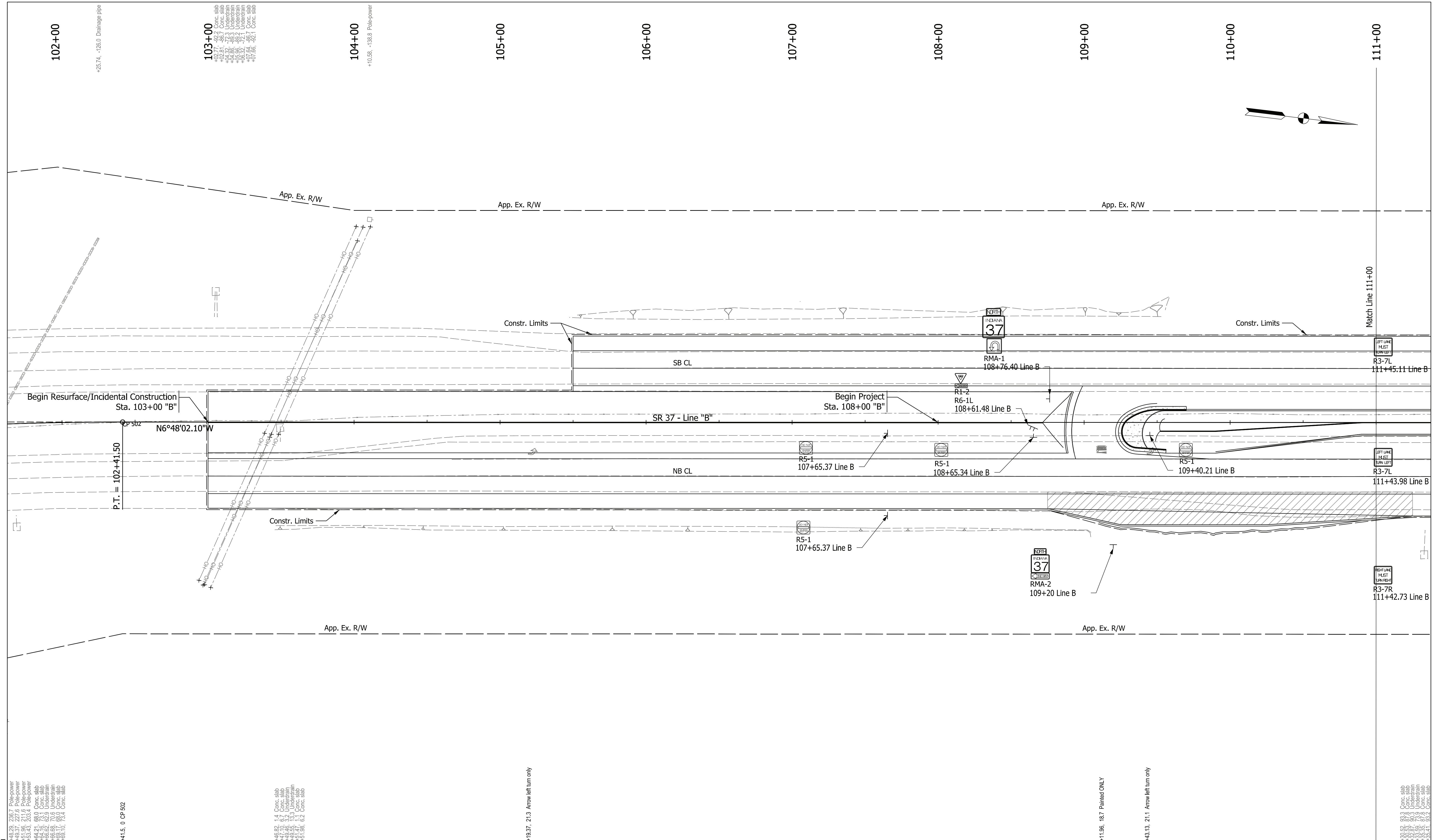
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Model: Default

| | | |
|--------------------------|-----------------|--------------|
| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: CPM | March 2022 | DRAWN: CPM |
| March 2022 | | March 2022 |
| CHECKED: MRS | March 2022 | CHECKED: MRS |
| March 2022 | | March 2022 |

**INDIANA
DEPARTMENT OF TRANSPORTATION**

**NORTH MEDIAN U-TURN DETAILS
AND SPOT DETAILS**

| | |
|----------|-------------|
| SCALE | BRIDGE FILE |
| 1"=10' | |
| | DESIGNATION |
| | 1800371 |
| | SHEETS |
| | 24 of 51 |
| CONTRACT | PROJECT |
| R-42414 | 1800371 |



+48.29, 236.7 Pole-power
 +49.37, 227.6 Pole-power
 +50.45, 218.5 Pole-power
 +51.53, 209.4 Pole-power
 +64.21, 68.0 Conc. slab
 +65.15, 73.0 Conc. slab
 +66.08, 70.6 Underdrain
 +68.17, 69.0 Conc. slab
 +69.16, 78.4 Conc. slab

+41.5, 0 CP 502

+46.82, 1.4 Conc. slab
 +47.80, 6.7 Conc. slab
 +48.78, 13.0 Underdrain
 +49.75, 13.0 Underdrain
 +51.74, 6.2 Conc. slab

+19.37, 21.3 Arrow left turn only

+11.96, 18.7 Painted ONLY

+43.13, 21.1 Arrow left turn only

+69.93, 99.0 Conc. slab
 +70.86, 99.0 Underdrain
 +71.79, 99.0 Conc. slab
 +72.72, 99.0 Conc. slab
 +73.65, 99.0 Conc. slab
 +74.58, 99.0 Conc. slab

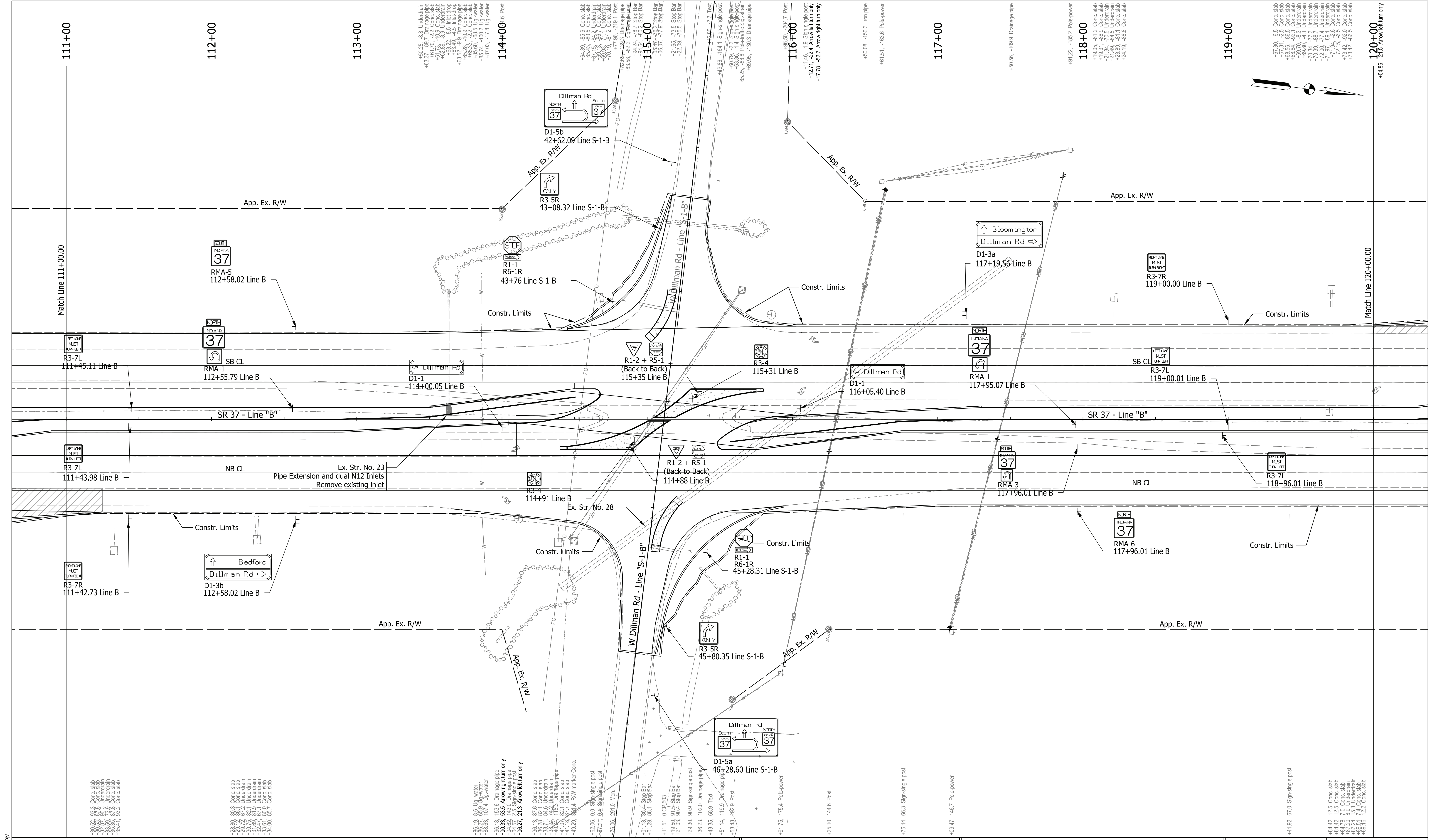
NOTE: Pavement Markings will be added to the plans at a later submittal.

| | | |
|--------------------------|-----------------|----------------------|
| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: ADD | 10/2021 | DRAWN: ADD 10/2021 |
| CHECKED: PTP | 10/2021 | CHECKED: PTP 10/2021 |

INDIANA
 DEPARTMENT OF TRANSPORTATION
 SIGN & PAVEMENT MARKING DETAILS 1 OF 3
 LINE "B"

| | |
|----------|-------------|
| SCALE | BRIDGE FILE |
| 1" = 30' | DESIGNATION |
| | 1800371 |
| | SHEETS |
| | 25 of 51 |
| CONTRACT | PROJECT |
| R-42414 | |

Plot: 4/14/2022 9:06 PM



NOTE: Pavement Markings will be added to the plans at a later submittal.

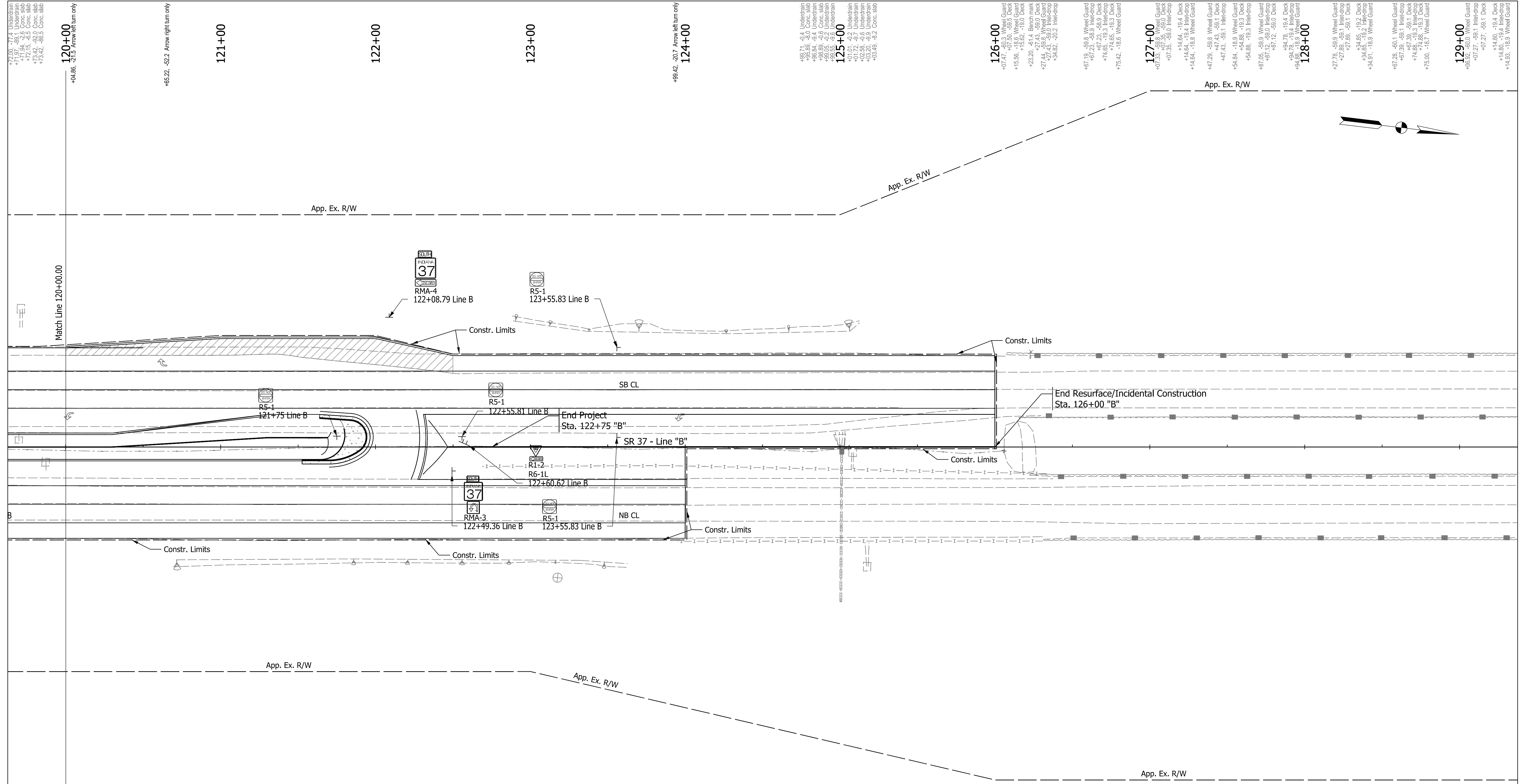
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|--------------------------|-----------------|----------------------|
| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: ADD | 10/2021 | DRAWN: ADD 10/2021 |
| CHECKED: PTP | 10/2021 | CHECKED: PTP 10/2021 |

INDIANA DEPARTMENT OF TRANSPORTATION

SIGN & PAVEMENT MARKING DETAILS 2 OF 3 LINE "B"

| | |
|----------|-------------|
| SCALE | BRIDGE FILE |
| 1" = 30' | DESIGNATION |
| | 1800371 |
| | SHEETS |
| | 26 of 51 |
| CONTRACT | PROJECT |
| R-42414 | |

Plot: 4/14/2022 9:07 PM



Plot: 4/14/2022 9:07 PM

NOTE: Pavement Markings will be added to the plans at a later submittal.

File: pw:\indot-pw.bentley.com\indot-pw-01\Documents\Seymour\1800371\Signs Signals and Lighting\MS\Sht Pavement Markings Signs Details_3.dgn
Model: Default

| | | |
|--------------------------|-----------------|------------|
| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: ADD | 10/2021 | DRAWN: ADD |
| 10/2021 | CHECKED: PTP | 10/2021 |

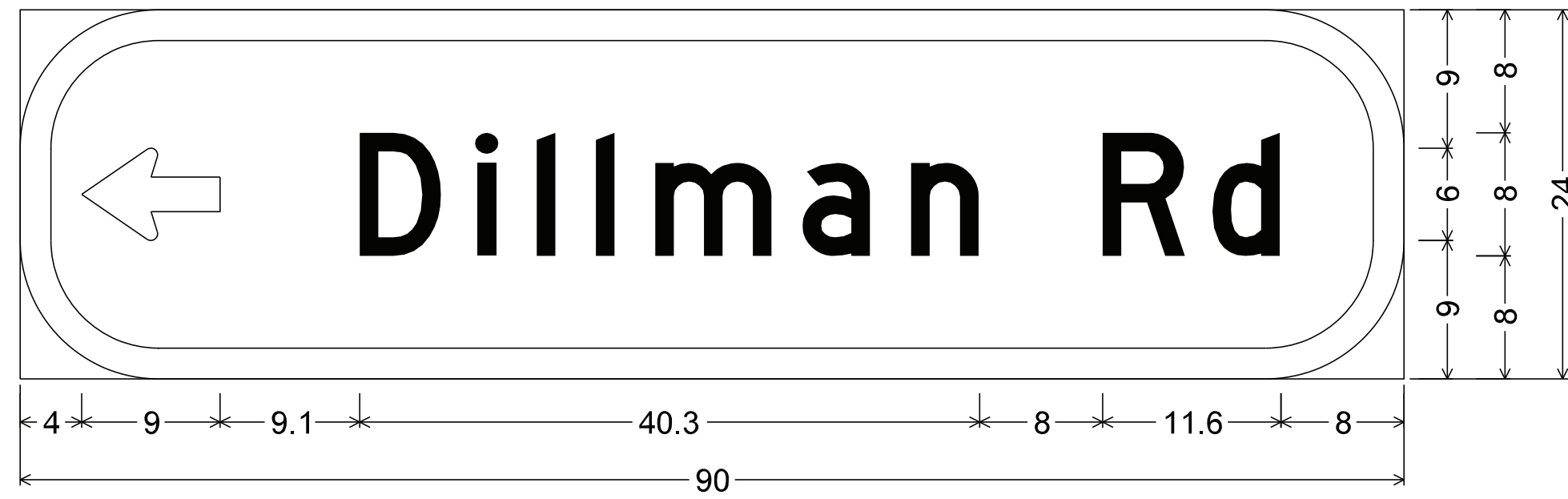
INDIANA
DEPARTMENT OF TRANSPORTATION

SIGN & PAVEMENT MARKING DETAILS 3 OF 3
LINE "B"

| | |
|----------|-------------|
| SCALE | BRIDGE FILE |
| 1" = 30' | |
| | DESIGNATION |
| | 1800371 |
| | SHEETS |
| | 27 of 51 |
| CONTRACT | PROJECT |
| R-42414 | |

- +00.42, 100.0 Drainage pipe
- +01.91, 4.3 Drainage pipe
- +02.55, 4.9 Conc. slab
- +03.55, 0.0 Conc. slab
- +05.69, 0.0 Conc. slab
- +07.19, 14.2 Underdrain
- +08.39, 3.7 Underdrain
- +10.71, 0.7 Conc. slab
- +15.12, 74.4 Conc. slab
- +14.97, 80.1 Conc. slab
- +17.05, 77.0 Underdrain
- +18.11, 77.0 Underdrain
- +19.91, 80.0 Underdrain
- +19.93, 74.6 Conc. slab
- +22.57, 18.3 Deck Guard
- +31.37, 59.6 Deck
- +31.44, 59.9 Wheel Guard
- +42.57, 18.4 Wheel Guard
- +42.70, 19.1 Inlet-drop
- +50.74, 59.5 Wheel Guard
- +50.78, 58.7 Inlet-drop
- +82.86, 18.9 Deck
- +82.90, 18.5 Wheel Guard
- +90.38, 59.8 Deck
- +90.39, 59.6 Wheel Guard
- +22.99, 18.4 Wheel Guard
- +22.74, 19.0 Inlet-drop
- +30.23, 59.3 Wheel Guard
- +30.36, 58.7 Inlet-drop
- +62.21, 18.2 Wheel Guard
- +62.80, 19.0 Inlet-drop
- +70.21, 59.6 Deck
- +70.39, 59.3 Wheel Guard
- +02.05, 18.2 Wheel Guard
- +02.56, 18.9 Deck
- +02.56, 18.9 Deck
- +10.78, 59.2 Wheel Guard
- +10.28, 58.7 Deck
- +41.51, 19.0 Inlet-drop
- +41.53, 18.2 Wheel Guard
- +49.39, 59.5 Wheel Guard
- +49.39, 59.6 Inlet-drop
- +62.51, 18.0 Wheel Guard
- +62.52, 18.9 Deck
- +62.52, 18.9 Deck
- +69.37, 59.6 Wheel Guard
- +69.27, 58.6 Deck
- +22.51, 18.2 Wheel Guard
- +22.64, 18.6 Inlet-drop
- +22.74, 19.0 Deck
- +30.38, 59.8 Deck
- +30.38, 59.6 Inlet-drop

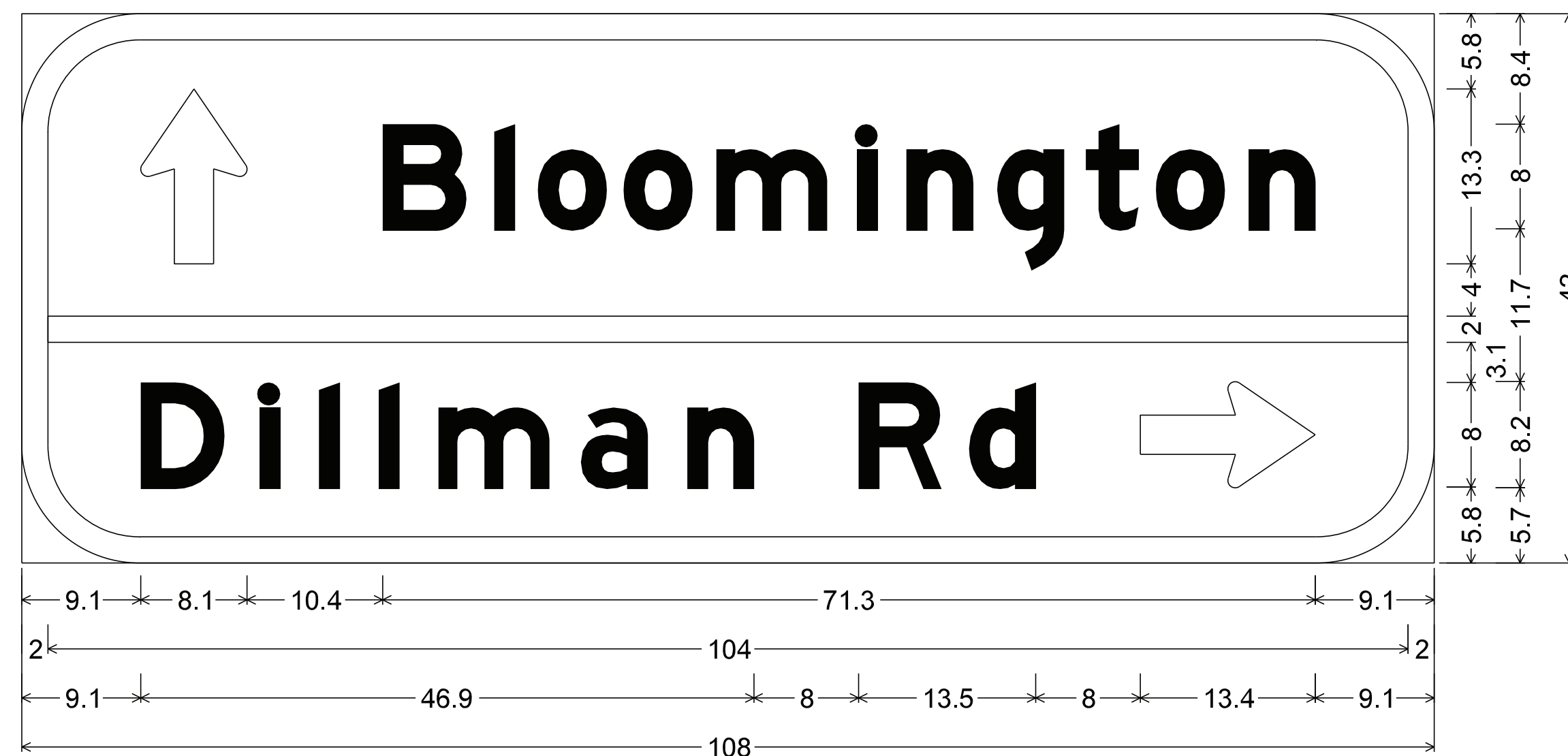
- +12.00, 77.4 Underdrain
- +17.04, 92.6 Underdrain
- +17.15, 6.5 Conc. slab
- +17.42, 59.0 Conc. slab
- +17.42, 58.3 Conc. slab
- +64.86, 47.9 Arrow left turn only
- +65.21, 52.2 Arrow right turn only
- +99.42, 30.7 Arrow left turn only
- +99.71, 0.4 Underdrain
- +99.71, 0.4 Underdrain
- +99.84, 0.4 Underdrain
- +99.89, 0.6 Conc. slab
- +99.95, 0.2 Underdrain
- +99.95, 0.2 Underdrain
- +01.01, 0.2 Underdrain
- +01.72, 0.7 Underdrain
- +02.39, 0.6 Underdrain
- +02.39, 0.6 Underdrain
- +03.49, 0.2 Conc. slab
- +03.49, 0.2 Conc. slab
- +07.47, 0.3 Wheel Guard
- +15.56, 18.6 Wheel Guard
- +15.56, 18.0 Deck
- +23.20, 81.4 Bench mark
- +27.44, 59.8 Wheel Guard
- +27.43, 58.0 Inlet-drop
- +34.82, 20.2 Inlet-drop
- +67.19, 58.8 Wheel Guard
- +67.23, 58.9 Inlet-drop
- +67.27, 58.9 Deck
- +74.85, 76.9 Deck
- +74.85, 18.3 Deck
- +75.42, 18.8 Wheel Guard
- +77.35, 59.8 Wheel Guard
- +77.35, 59.0 Inlet-drop
- +77.35, 59.0 Inlet-drop
- +14.64, 19.4 Deck
- +14.64, 18.9 Wheel Guard
- +47.29, 58.8 Wheel Guard
- +47.43, 59.1 Deck
- +47.43, 59.1 Inlet-drop
- +54.84, 18.9 Wheel Guard
- +54.86, 19.3 Deck
- +54.86, 18.3 Inlet-drop
- +87.05, 58.9 Wheel Guard
- +87.12, 59.0 Inlet-drop
- +87.12, 59.0 Deck
- +94.78, 19.4 Deck
- +94.88, 18.9 Wheel Guard
- +94.88, 18.9 Wheel Guard
- +27.78, 59.9 Wheel Guard
- +27.89, 59.1 Inlet-drop
- +27.89, 59.1 Deck
- +34.85, 19.2 Deck
- +34.85, 18.2 Inlet-drop
- +34.91, 18.9 Wheel Guard
- +67.28, 60.1 Wheel Guard
- +67.39, 59.1 Inlet-drop
- +67.39, 59.1 Deck
- +74.88, 19.3 Deck
- +74.88, 18.3 Inlet-drop
- +75.00, 18.7 Wheel Guard
- +06.02, 59.1 Wheel Guard
- +07.27, 59.1 Inlet-drop
- +07.27, 59.1 Deck
- +14.80, 18.4 Inlet-drop
- +14.80, 18.4 Inlet-drop
- +14.93, 18.9 Wheel Guard



9.0" Radius, 2.0" Border, White on Green;
 Standard Arrow Custom 9.0" X 6.0" 180°; "Dillman Rd", D;
 Table of widths and spaces

| | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| ← | D | i | l | l | l | m | a | n | R | d | | | | | | | | | | |
| 4.0 | 9.0 | 9.1 | 5.4 | 2.2 | 1.3 | 2.6 | 1.2 | 2.6 | 1.3 | 2.6 | 7.5 | 2.1 | 4.4 | 2.6 | 4.5 | 8.0 | 5.4 | 1.7 | 4.5 | 8.0 |

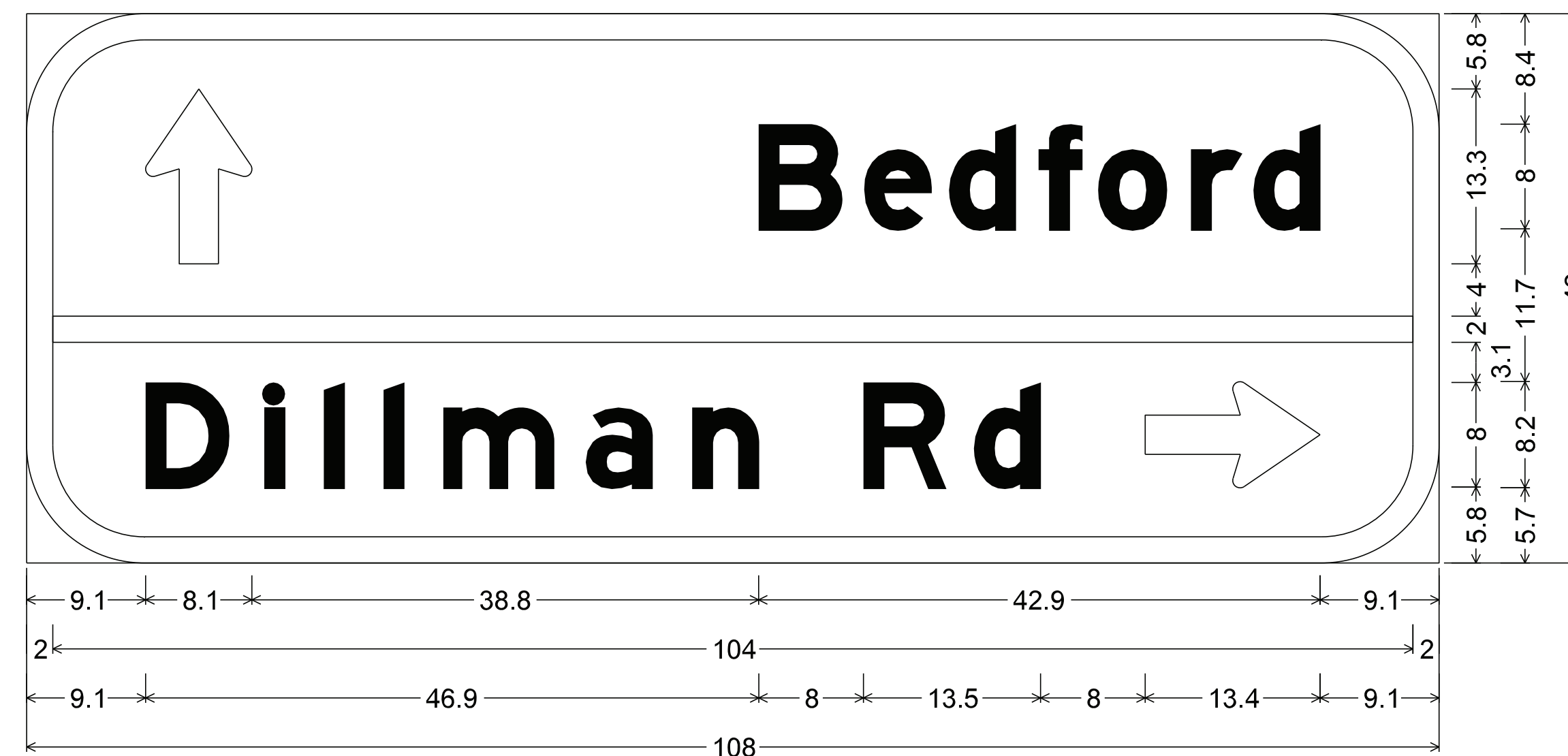
D1-1
 Sta. 114+00.05
 Sta. 116+05.40
 (Line B)



9.0" Radius, 2.0" Border, White on Green;
 Standard Arrow Custom 13.4" X 8.1" 90°; "Bloomington", E Mod 75% spacing; "Dillman Rd", E Mod;
 Standard Arrow Custom 13.4" X 8.1" 0°;
 Table of widths and spaces

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|
| ↑ | B | i | o | o | m | i | n | g | t | o | n | | | | | | | | | | | | | |
| 9.1 | 8.1 | 10.4 | 6.4 | 2.1 | 1.5 | 1.9 | 5.2 | 1.3 | 5.3 | 1.8 | 8.4 | 2.3 | 1.5 | 2.3 | 5.1 | 1.9 | 5.1 | 1.7 | 4.0 | 1.3 | 5.3 | 1.8 | 5.1 | 9.1 |
| 2.0 | 104.0 | 2.0 | | | | | | | | | | | | | | | | | | | | | | |
| D | i | l | l | m | a | n | R | d | → | | | | | | | | | | | | | | | |
| 9.1 | 6.4 | 2.7 | 1.5 | 3.0 | 1.5 | 3.1 | 1.5 | 3.1 | 8.4 | 2.5 | 5.0 | 3.1 | 5.1 | 8.0 | 6.4 | 2.0 | 5.1 | 8.0 | 13.4 | 9.1 | | | | |

D1-3a
 Sta. 117+19.56
 (Line B)



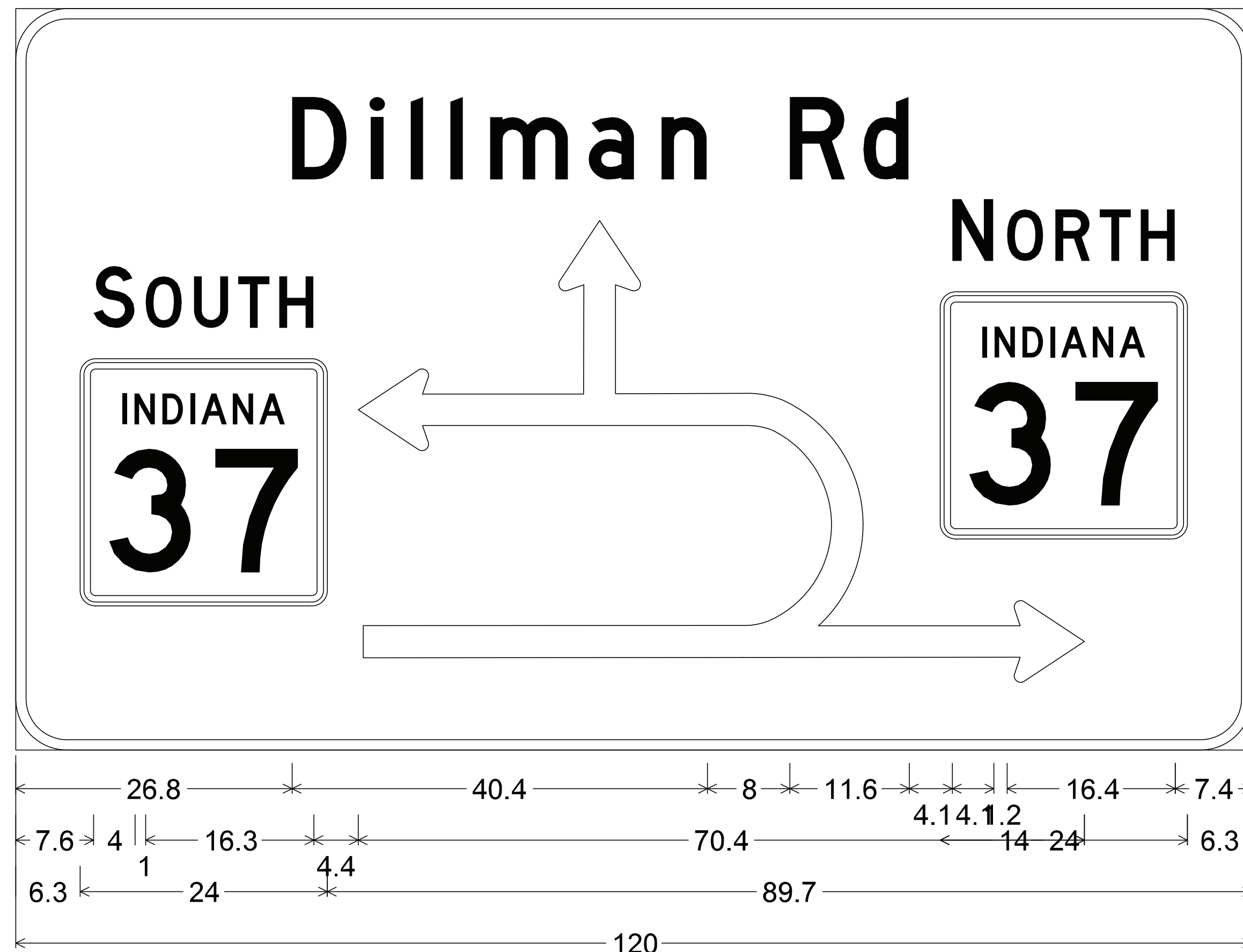
9.0" Radius, 2.0" Border, White on Green;
 Standard Arrow Custom 13.4" X 8.1" 90°; "Bedford", E Mod 75% spacing; "Dillman Rd", E Mod;
 Standard Arrow Custom 13.4" X 8.1" 0°;
 Table of widths and spaces

| | | | | | | | | | | | | | | | | | | | | |
|-----|-------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|
| ↑ | B | e | d | f | o | r | d | | | | | | | | | | | | | |
| 9.1 | 8.1 | 38.8 | 6.3 | 1.7 | 5.1 | 1.4 | 5.1 | 1.8 | 3.2 | 1.3 | 5.3 | 1.8 | 3.9 | 0.9 | 5.1 | 9.1 | | | | |
| 2.0 | 104.0 | 2.0 | | | | | | | | | | | | | | | | | | |
| D | i | l | l | m | a | n | R | d | → | | | | | | | | | | | |
| 9.1 | 6.4 | 2.7 | 1.5 | 3.0 | 1.5 | 3.1 | 1.5 | 3.1 | 8.4 | 2.5 | 5.0 | 3.1 | 5.1 | 8.0 | 6.4 | 2.0 | 5.1 | 8.0 | 13.4 | 9.1 |

D1-3b
 Sta. 112+58.02
 (Line B)

Plot: 4/14/2022 9:10 PM

| | | | | |
|--|--------------------------------------|--------------------|---------|-------------|
| RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____ | INDIANA DEPARTMENT OF TRANSPORTATION | | SCALE | BRIDGE FILE |
| | | | NTS | DESIGNATION |
| | DESIGNED: ADD 10/2021 | DRAWN: ADD 10/2021 | SHEETS | |
| CHECKED: PTP 10/2021 | CHECKED: PTP 10/2021 | 28 of 51 | | |
| PANEL SIGN SHOP DRAWINGS 1 OF 3 | | CONTRACT | PROJECT | |
| | | R-42414 | | |

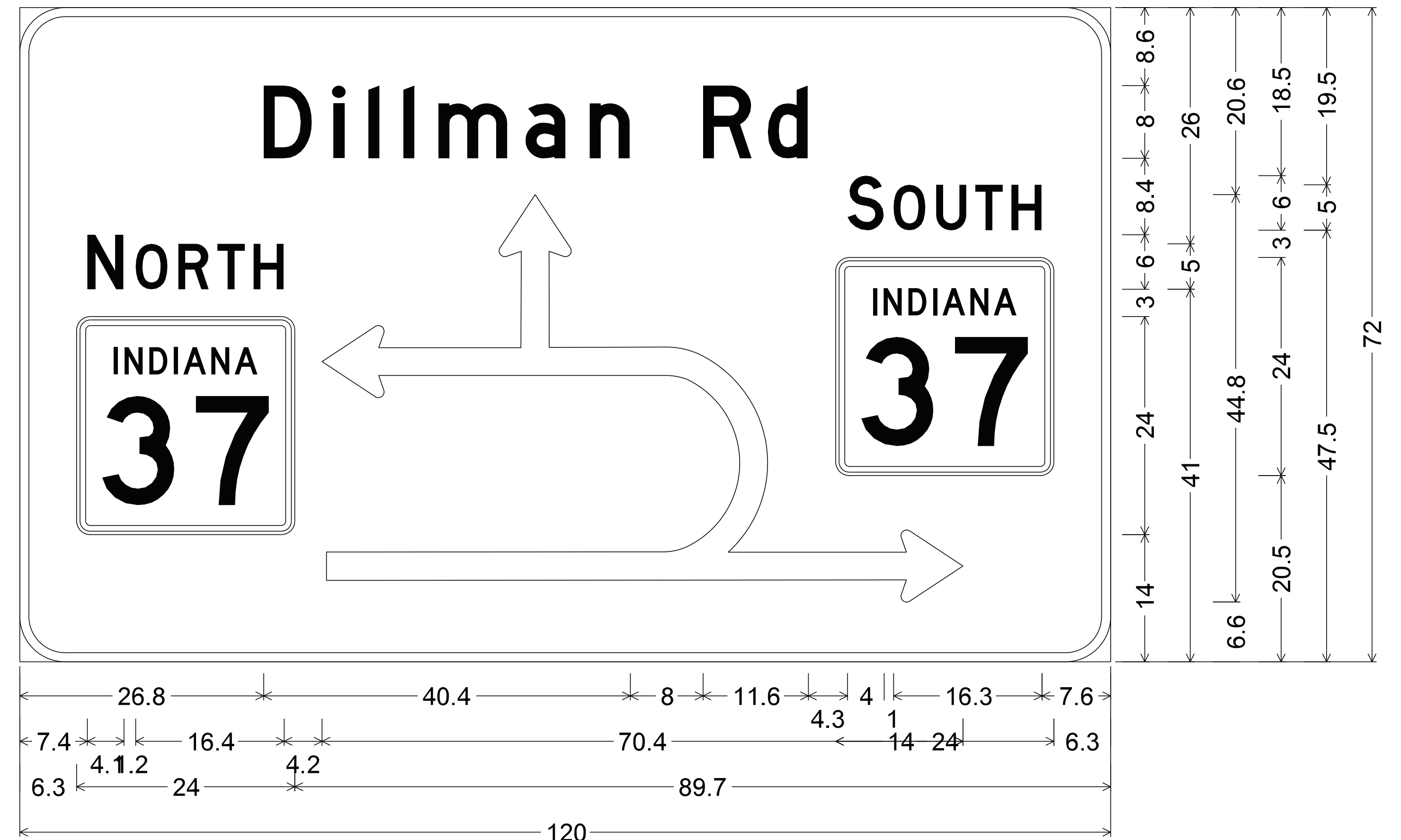


5.0" Radius, 1.0" Border, White on Green;
 "Dillman Rd", D; "SOUTH", D; State Highway 37 M1-6; "NORTH", D;
 State Highway 37 M1-6;

Table of widths and spaces

| | | | | | | | | | |
|-----------|------|-------|------|-----|-----|-----|-----|-----|-----|
| 26.8 | D | i | l | l | m | a | n | R | d |
| 5.4 | 2.3 | 1.2 | 2.6 | 1.3 | 2.6 | 1.2 | 2.7 | 7.4 | 2.1 |
| 4.5 | 2.6 | 4.5 | 8.0 | 5.3 | 1.8 | 4.4 | | | |
| N O R T H | | | | | | | | | |
| 4.2 | 4.1 | 1.2 | 3.6 | 1.1 | 3.4 | 0.9 | 3.1 | 0.9 | 3.4 |
| S O U T H | | | | | | | | | |
| 7.6 | 4.0 | 1.0 | 3.5 | 1.2 | 3.4 | 0.9 | 3.0 | 1.0 | 3.3 |
| 4.4 | 70.4 | -13.9 | 24.0 | 6.2 | | | | | |
| 6.3 | 24.0 | 89.7 | | | | | | | |

D1-5a
 Sta. 46+28.60
 (Line S-1-B)



5.0" Radius, 1.0" Border, White on Green;
 "Dillman Rd", D; "NORTH", D; State Highway 37 M1-6; "SOUTH", D;
 State Highway 37 M1-6;

Table of widths and spaces

| | | | | | | | | | |
|-----------|------|-------|------|-----|-----|-----|-----|-----|-----|
| 26.8 | D | i | l | l | m | a | n | R | d |
| 5.4 | 2.3 | 1.2 | 2.6 | 1.3 | 2.6 | 1.2 | 2.7 | 7.4 | 2.1 |
| 4.5 | 2.6 | 4.5 | 8.0 | 5.3 | 1.8 | 4.4 | | | |
| S O U T H | | | | | | | | | |
| 4.4 | 4.0 | 1.0 | 3.5 | 1.2 | 3.4 | 0.9 | 3.0 | 1.0 | 3.3 |
| N O R T H | | | | | | | | | |
| 7.4 | 4.1 | 1.2 | 3.6 | 1.1 | 3.4 | 0.9 | 3.1 | 0.9 | 3.4 |
| 4.4 | 70.4 | -13.9 | 24.0 | 6.2 | | | | | |
| 6.3 | 24.0 | 89.7 | | | | | | | |

D1-5b
 Sta. 42+62.09
 (Line S-1-B)

Plot: 4/14/2022 9:10 PM

File: pw:\indot-pw.bentley.com\indot-pw-01\Documents\Seymour\1800371\Signs Signals and Lighting\MS\ShT_Sign Shop Drawings.dgn
 Model: Panel Sign Shop Drawings 2 of 2

| | | | | | | | |
|--------------------------|-----------------|--------------|---------|--|--------------------------------------|-------------|-------------|
| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | | DATE | | INDIANA DEPARTMENT OF TRANSPORTATION | SCALE | BRIDGE FILE |
| | | | | | | NTS | |
| DESIGNED: ADD | 10/2021 | DRAWN: ADD | 10/2021 | | PANEL SIGN SHOP DRAWINGS 2 OF 3 | DESIGNATION | |
| CHECKED: PTP | 10/2021 | CHECKED: PTP | 10/2021 | | | 1800371 | |
| | | | | | | SHEETS | |
| | | | | | 29 of 51 | | |
| | | | | | CONTRACT | | |
| | | | | | R-42414 | | |
| | | | | | PROJECT | | |



RMA-1
Sta. 108+76.40



RMA-2
Sta. 07+08

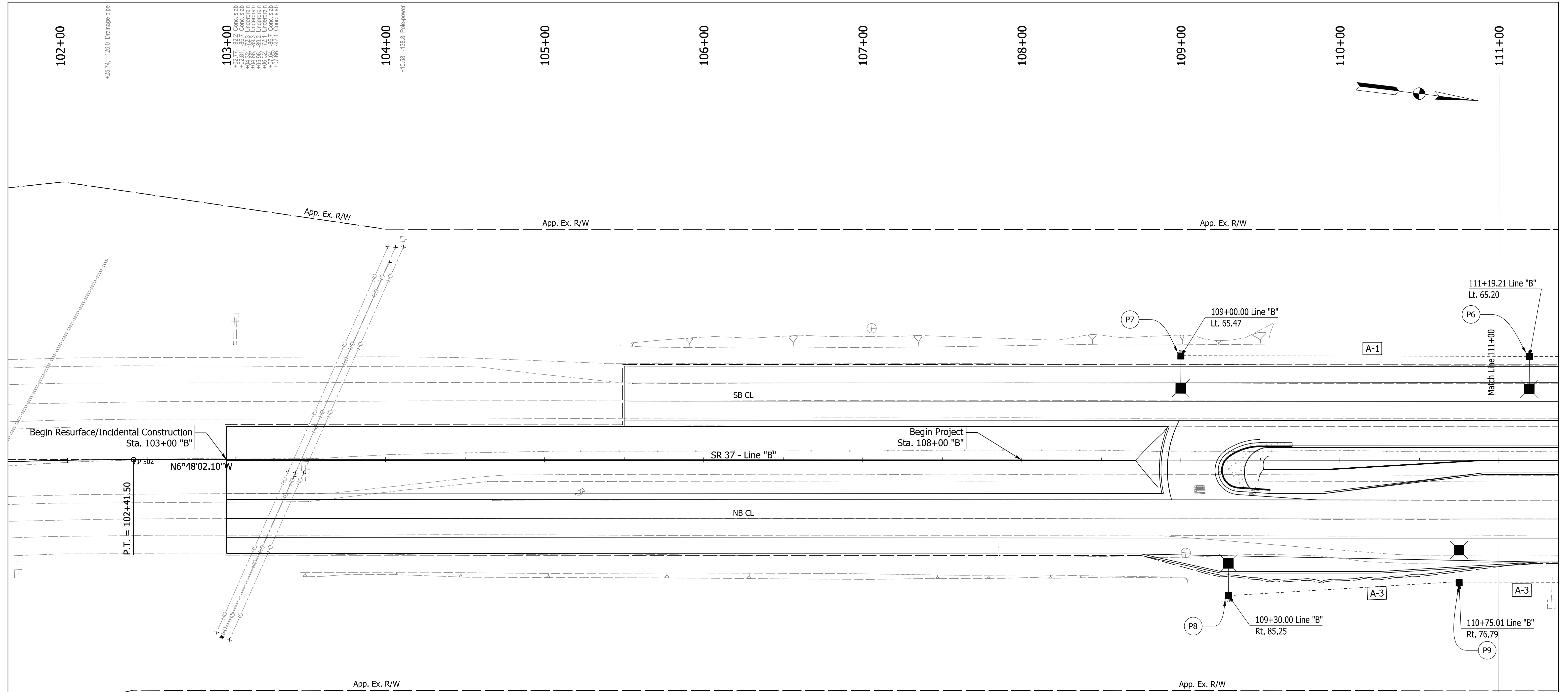


RMA-3
Sta. 117+96.01

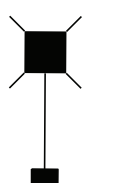
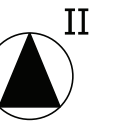

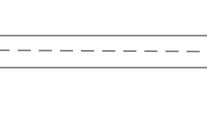
Plot: 4/14/2022 9:10 PM

File: pv:\indot-pw.bentley.com\indot-pw-01\Documents\Seymour\1800371\Signs Signals and Lighting\MS\ShT_Sign Shop Drawings.dgn
Model:RMA Shop Drawings 2 of 2

| | | | | | | |
|--------------------------|-----------------|--------------|---------|---|-------------|-------------|
| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | | DATE | INDIANA DEPARTMENT OF TRANSPORTATION | SCALE | BRIDGE FILE |
| | | | | | NTS | |
| DESIGNED: ADD | 10/2021 | DRAWN: ADD | 10/2021 | PANEL SIGN SHOP DRAWINGS 3 OF 3 | DESIGNATION | |
| CHECKED: PTP | 10/2021 | CHECKED: PTP | 10/2021 | | 1800371 | |
| | | | | | SHEETS | |
| | | | | 30 of 51 | | |
| | | | | CONTRACT | | |
| | | | | R-42414 | | |
| | | | | PROJECT | | |



LEGEND

-  New LED High Lumen Roadway Luminaire on Breakaway Base (Breakaway Transformer Base, Breakaway Couplings)
-  Lighting Service Point II
-  4-IC No. 4 Copper Conductor in Plastic Duct in Trench
-  4-IC No. 4 Copper Conductor in Plastic Duct in 2" Galvanized Steel Conduit

+48.29, 236.7 Pole-power
 +49.37, 227.6 Pole-power
 +50.45, 218.5 Pole-power
 +51.53, 209.4 Pole-power
 +64.21, 68.0 Conc. slab
 +64.15, 73.0 Conc. slab
 +64.09, 78.0 Conc. slab
 +66.68, 70.6 Underdrain
 +68.17, 69.0 Conc. slab
 +69.16, 78.4 Conc. slab

+41.5, 0 CP 502

+46.82, 1.4 Conc. slab
 +47.90, 6.7 Conc. slab
 +48.98, 11.9 Conc. slab
 +49.05, 13.9 Underdrain
 +51.48, 6.1 Conc. slab
 +51.74, 6.1 Conc. slab

+19.37, 21.3 Arrow left turn only

+11.96, 18.7 Painted ONLY

+43.13, 21.1 Arrow left turn only

+69.99, 99.9 Conc. slab
 +70.00, 99.9 Underdrain
 +70.01, 99.9 Conc. slab
 +70.02, 99.9 Conc. slab
 +70.03, 99.9 Conc. slab
 +70.04, 99.9 Conc. slab

NOTE: The Contractor shall use ERL2_28C340_ies or approved equivalent luminaire. For Details of Lighting Luminaires Refer to Lighting Detail Sheet

| | | |
|--------------------------|-----------------|----------------------|
| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: ADD | 10/2021 | DRAWN: ADD 10/2021 |
| CHECKED: PTP | 10/2021 | CHECKED: PTP 10/2021 |

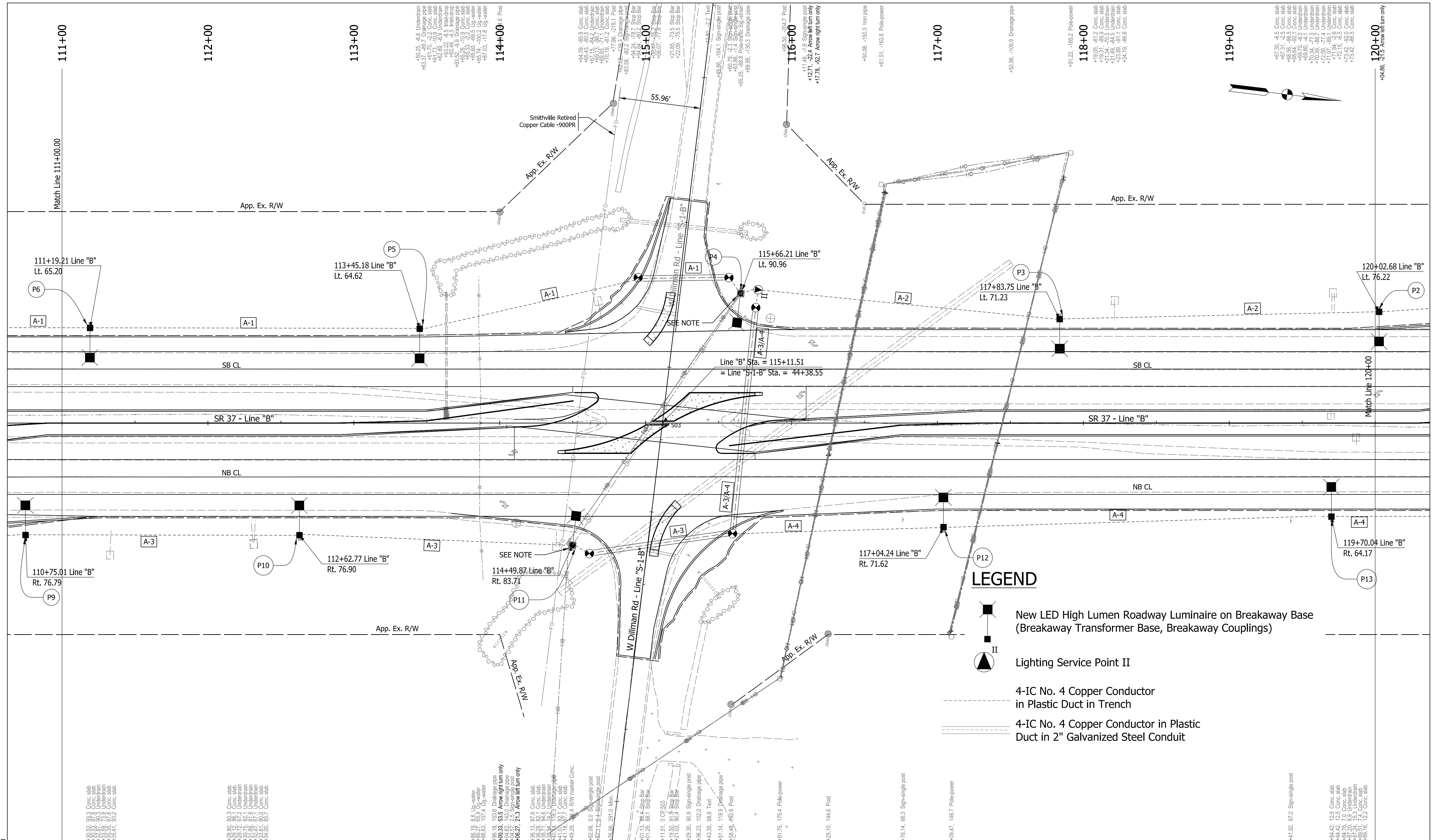
INDIANA
DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN DETAILS
LINE "B"

PAGE 1 OF 3

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| SCALE | BRIDGE FILE |
| 1" = 30' | DESIGNATION |
| | 1800371 |
| | SHEETS |
| | 31 of 51 |
| CONTRACT | PROJECT |
| R-42414 | |

Plot: 4/14/2022 9:10 PM



LEGEND

- New LED High Lumen Roadway Luminaire on Breakaway Base (Breakaway Transformer Base, Breakaway Couplings)
- Lighting Service Point II
- 4-IC No. 4 Copper Conductor in Plastic Duct in Trench
- 4-IC No. 4 Copper Conductor in Plastic Duct in 2" Galvanized Steel Conduit

NOTE: The Contractor shall use ERL2_28C340_ies or approved equivalent luminaire. For Details of Lighting Luminaires Refer to Lighting Detail Sheet The Luminaire is mounted on a new 15 Ft. Lighting Mast Arm on existing Signal Strain Pole.

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| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: ADD | 10/2021 | DRAWN: ADD 10/2021 |
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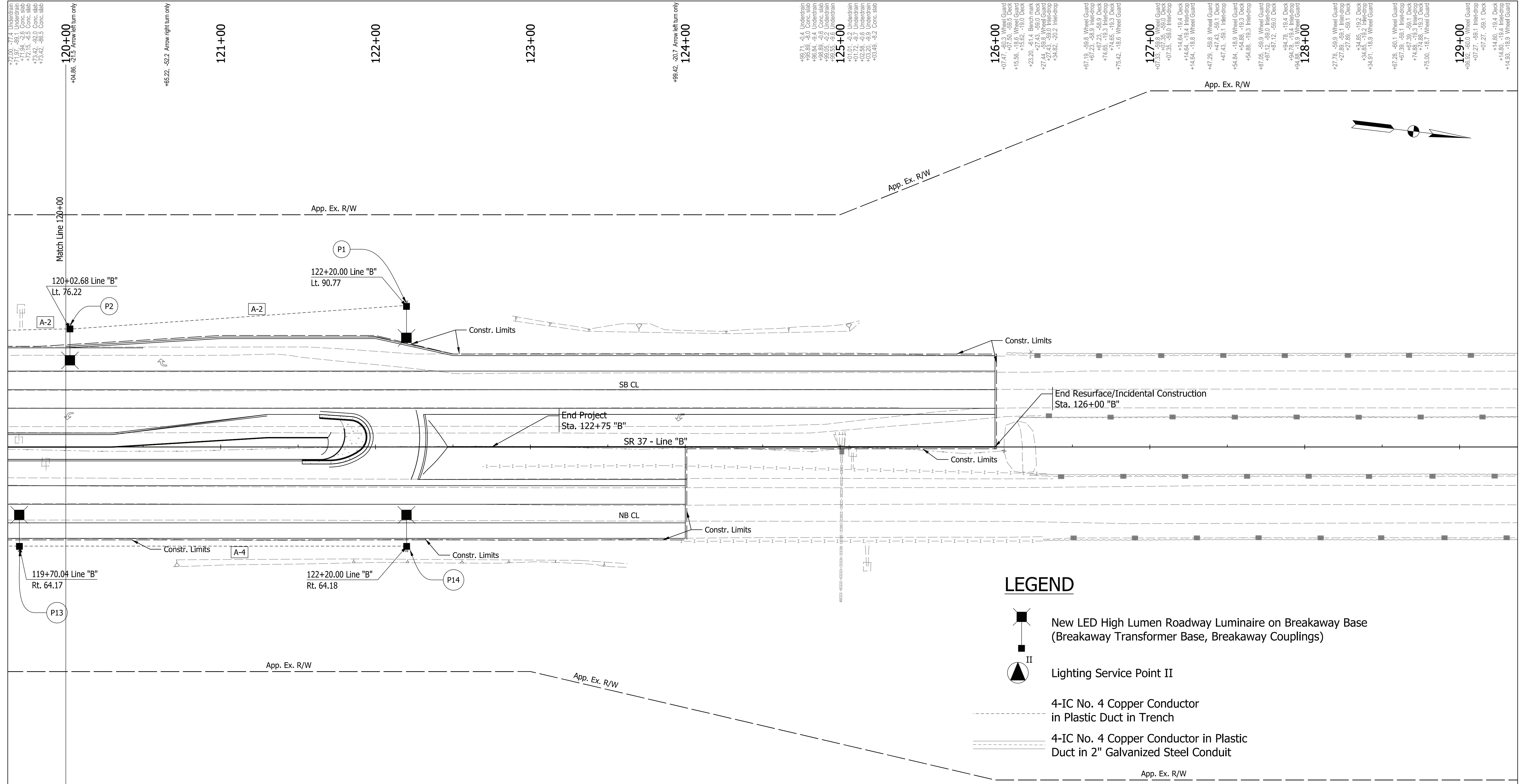
INDIANA DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN DETAILS LINE "B"

PAGE 2 OF 3

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| SCALE | BRIDGE FILE |
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| | 1800371 |
| | SHEETS |
| | 32 of 51 |
| CONTRACT | PROJECT |
| R-42414 | |

Plot: 4/14/2022 9:11 PM



+12.00, -77.4 Underdrain
 +17.84, -92.6 Underdrain
 +17.84, -92.6 Conc. Slab
 +72.15, -6.5 Conc. Slab
 +73.42, -52.0 Conc. Slab
 +73.42, -60.3 Conc. Slab

+64.86, -27.9 Arrow left turn only

121+00

122+00

123+00

+99.42, -20.7 Arrow left turn only

124+00

+99.71, -0.4 Underdrain
 +99.71, -0.4 Deck
 +96.84, -9.4 Underdrain
 +96.84, -9.4 Conc. Slab
 +99.05, -0.2 Underdrain
 +99.05, -0.2 Conc. Slab
 +101.01, -0.2 Underdrain
 +101.01, -0.2 Conc. Slab
 +102.96, -0.6 Underdrain
 +102.96, -0.6 Conc. Slab
 +103.49, -8.2 Conc. Slab

+15.56, -16.6 Wheel Guard
 +15.56, -16.6 Deck
 +23.20, -61.4 Beacon mark
 +27.44, -50.8 Wheel Guard
 +27.44, -50.8 Deck
 +34.82, -20.2 Inlet-drop

+67.19, -58.8 Wheel Guard
 +67.23, -58.9 Inlet-drop
 +67.23, -58.9 Deck
 +74.85, -16.3 Wheel Guard
 +74.85, -16.3 Deck
 +75.42, -18.8 Wheel Guard

+14.64, -19.4 Deck
 +14.64, -19.4 Wheel Guard
 +47.29, -58.8 Wheel Guard
 +47.43, -59.1 Deck
 +47.43, -59.1 Inlet-drop
 +54.84, -18.9 Wheel Guard
 +54.88, -19.3 Deck
 +54.88, -19.3 Inlet-drop
 +87.05, -59.9 Wheel Guard
 +87.12, -59.0 Inlet-drop
 +87.12, -59.0 Deck

+64.78, -19.4 Deck
 +64.78, -19.4 Wheel Guard
 +94.88, -18.9 Wheel Guard
 +27.78, -59.9 Wheel Guard
 +27.89, -59.1 Inlet-drop
 +27.89, -59.1 Deck
 +34.85, -19.2 Deck
 +34.85, -19.2 Inlet-drop
 +34.85, -19.3 Wheel Guard
 +67.28, -60.1 Wheel Guard
 +67.39, -59.1 Inlet-drop
 +67.39, -59.1 Deck
 +74.88, -19.3 Deck
 +74.88, -19.3 Wheel Guard
 +75.00, -18.7 Wheel Guard

+84.42, 12.5 Conc. Slab
 +84.42, 12.5 Conc. Slab
 +87.20, 6.9 Underdrain
 +87.20, 6.9 Conc. Slab
 +88.74, 15.3 Underdrain
 +88.74, 15.3 Conc. Slab

+104.42, 100.0 Drainage pipe
 +101.99, 4.2 Drainage pipe
 +102.95, -0.9 Conc. Slab
 +102.95, -0.9 Conc. Slab
 +105.69, 0.0 Conc. Slab
 +107.19, 14.2 Underdrain
 +108.39, 3.7 Underdrain
 +108.39, 3.7 Conc. Slab
 +107.1, 0.7 Conc. Slab
 +15.12, 74.4 Conc. Slab
 +14.97, 80.1 Conc. Slab
 +17.05, 77.0 Underdrain
 +18.11, 77.0 Underdrain
 +18.21, 80.0 Underdrain
 +18.21, 80.0 Conc. Slab
 +19.93, 74.6 Conc. Slab

+22.57, 18.3 Deck
 +22.57, 18.3 Wheel Guard
 +31.37, 59.6 Deck
 +31.44, 59.9 Wheel Guard
 +42.76, 19.4 Wheel Guard
 +42.76, 19.1 Inlet-drop
 +50.74, 59.5 Wheel Guard
 +50.78, 58.7 Inlet-drop

+82.86, 18.9 Deck
 +82.90, 18.5 Wheel Guard
 +90.38, 59.8 Deck
 +90.39, 59.6 Wheel Guard
 +90.39, 59.6 Wheel Guard

+22.99, 18.4 Wheel Guard
 +22.74, 19.0 Inlet-drop
 +30.23, 59.3 Wheel Guard
 +30.36, 58.7 Inlet-drop

+62.21, 18.2 Wheel Guard
 +62.80, 19.0 Inlet-drop
 +70.21, 59.6 Deck
 +70.39, 59.3 Wheel Guard

+02.95, 18.0 Wheel Guard
 +02.95, 18.9 Deck
 +02.95, 18.9 Deck
 +10.78, 59.2 Wheel Guard
 +10.28, 58.7 Deck

+41.51, 19.0 Inlet-drop
 +41.53, 18.2 Wheel Guard
 +49.39, 59.5 Wheel Guard
 +49.39, 59.6 Inlet-drop

+62.51, 18.0 Wheel Guard
 +62.52, 18.9 Inlet-drop
 +62.52, 18.9 Deck
 +60.37, 59.8 Wheel Guard
 +60.27, 58.6 Deck

+22.51, 18.2 Wheel Guard
 +22.64, 18.6 Inlet-drop
 +22.74, 19.0 Inlet-drop
 +30.38, 59.8 Deck
 +30.38, 59.6 Inlet-drop

NOTE: The Contractor shall use ERL2_28C340 .ies or approved equivalent luminaire. For Details of Lighting Luminaires Refer to Lighting Detail Sheet

Plot: 4/14/2022 9:11 PM

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| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: ADD | 10/2021 | DRAWN: ADD 10/2021 |
| CHECKED: PTP | 10/2021 | CHECKED: PTP 10/2021 |

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| INDIANA DEPARTMENT OF TRANSPORTATION | |
| LIGHTING PLAN DETAILS LINE "B" PAGE 3 OF 3 | |

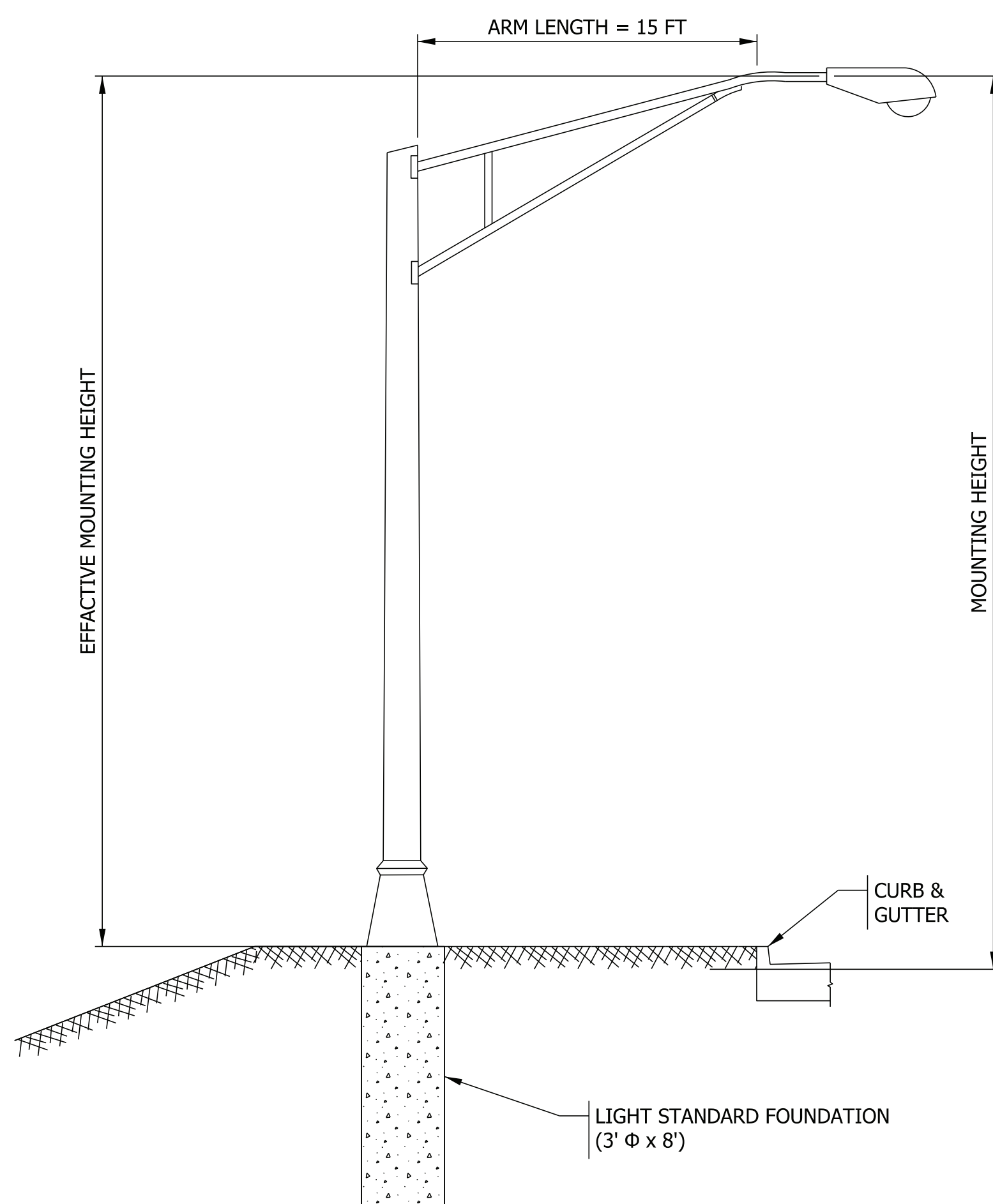
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|---------------------|-----------------------------------|
| SCALE 1" = 30' | BRIDGE FILE 1800371 |
| | DESIGNATION SHEETS 33 of 51 |
| CONTRACT R-42414 | PROJECT |

LUMINAIRE TABLE

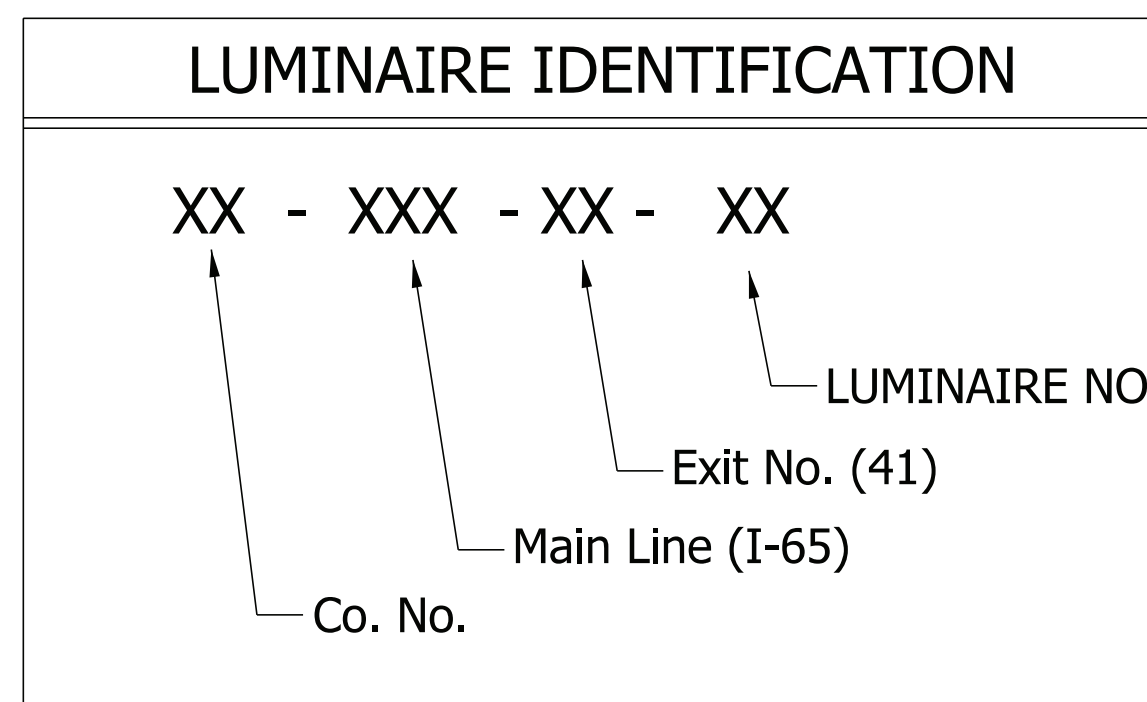
| HIGH MAST TOWER NO. | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 | P9 | P10 | P11 | P12 | P13 | P14 |
|---|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| NO. OF LUMINAIRE | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| CIRCUIT CONNECTION | A-2 | A-2 | A-2 | A-1 | A-1 | A-1 | A-1 | A-3 | A-3 | A-3 | A-3 | A-4 | A-4 | A-4 |
| CONNECTION TYPE | I | II | II | II | II | II | I | I | II | II | II | II | II | I |
| POLE SET BACK (FT) | 15' | 15' | 15' | 15' | 15' | 15' | 15' | 15' | 15' | 15' | 15' | 15' | 15' | 15' |
| MAST ARM LENGTH (FT) | 15' | 15' | 15' | 15' | 15' | 15' | 15' | 15' | 15' | 15' | 15' | 15' | 15' | 15' |
| TOP FOUNDATION ELEVATION WITH RESPECT TO EDGE OF PAVEMENT | | | | | | | | | | | | | | |
| SET BACK FROM | FRONT FACE OF CURB | | | | | | | | | | | | | |
| | FRONT FACE OF GUARD RAIL | | | | | | | | | | | | | |
| | EDGE OF PAVEMENT | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | EDGE OF SHOULDER | | | | | | | | | | | | | |
| LUMINAIRE E.M.H. (FT) | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |

THE LUMINAIRE SHALL PROVIDE LIGHT DISTRIBUTION EQUIVALENT TO ERL2_28C340 .ies

NOTE: ALL LUMINAIRES ARE MOUNTED ON A 15' MAST ARM.



TYPICAL LIGHT STANDARD

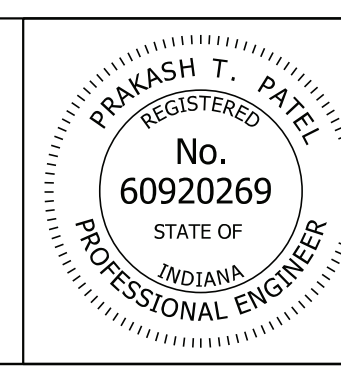


DESIGN DATA

| | |
|---------------------------------------|-------------------|
| INITIAL LAMP LUMEN (LL) 196 WATTS LED | 22,999 LUMENS |
| AVERAGE MAINTAINED ILLUMINATION (EL) | 1.6 fc |
| LIGHT LOSS FACTOR (LLF) | 0.87 |
| UNIFORMITY RATIO | 5.3:01 (SR 37 NB) |
| | 4.0:01 (SR 37 SB) |
| MOUNTING HEIGHT, CONVENTIONAL POLE | 40 FT |
| LUMINAIRE CLASSIFICATION | Medium Type III |

Plot: 4/14/2022 9:11 PM

File: pw:\indot-pw.bentley.com\indot-pw-01\Documents\Seymour\1800371\Signs Signals and Lighting\MS\Sh_Lighting Details.dgn
Model: Default



| | | |
|--------------------------|-------------------------|--------------|
| RECOMMENDED FOR APPROVAL | <i>Prakash T. Patel</i> | |
| | DESIGN ENGINEER | DATE |
| DESIGNED: ADD | 9/2021 | DRAWN: ADD |
| | 9/2021 | 9/2021 |
| CHECKED: PTP | 9/2021 | CHECKED: PTP |
| | 9/2021 | 9/2021 |

INDIANA
DEPARTMENT OF TRANSPORTATION

LIGHTING DETAIL SHEET

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|----------|-------------|
| SCALE | BRIDGE FILE |
| NTS | DESIGNATION |
| | 1800371 |
| | SHEETS |
| | 34 of 51 |
| CONTRACT | PROJECT |
| R-42414 | |

Appendix C

Early Coordination



INDIANA DEPARTMENT OF TRANSPORTATION

Seymour District
185 Agrico Lane
Seymour, IN 47274

PHONE: 855-463-6848
FAX: (812) 522-7658

Eric Holcomb, Governor
Joe McGuinness, Commissioner

November 4, 2021

Re: Des. No.: 1800371, Intersection Improvement at Intersection of SR 37 and Dillman Road,
Monroe County

Dear Coordinator,

The Indiana Department of Transportation (INDOT), with federal funding, intends to proceed with a project involving the aforementioned intersection improvement in Monroe County. This letter is part of the early coordination phase of the environmental review process. We are requesting comments from your area of expertise regarding any possible environmental effects associated with this project. Please use the above designation numbers and description in your reply. We will incorporate your comments into a study of the project's environmental impacts.

This project is an intersection improvement with added turn lanes at the intersection of SR 37 and Dillman Road in Bloomington. In the vicinity of the project, SR 37 runs north to south, and Dillman Road runs east to west. Crashes at this intersection are primarily related to vehicles leaving Dillman Road and attempting to turn left or cross SR 37. The intersection will be modified to a Reduced Conflict Intersection (RCI) with left turns lane in order to allow traffic to flow freely and improve safety. The project will eliminate the Dillman Road left turn and through movements, and all Dillman Road traffic will turn right. The northbound and southbound crossover intersections will be used by Dillman Road traffic to complete the left turn. Dillman Road will continue to be stop-controlled, and the crossovers and SR 37 left-turns will be yield controlled.

The project has a length of approximately 2500 feet, and 200 feet of widening will occur at the north and southbound project extents to allow for larger trucks to complete the J-turn. Existing drainage within the project area is primarily maintained through an open drainage system on either side and in the median of SR 37. Two pipes run horizontally beneath southbound SR 37 to drain the median. One pipe is located approximately 150 feet south of the intersection and the other is located 100 feet north of the intersection. The grate coverings on both inlets will be removed and replaced with inlets having ninety degree turns.

All work will be completed from existing INDOT right-of-way. Construction is anticipated to begin in fall 2023. The project will be constructed in multiple phases. The crossover intersections north and south of the Dillman Road intersection will be constructed in the Phase 1 and concrete barriers will be used to protect the construction zone. During Phase 2, Dillman Road will be closed in order to reconfigure the intersection to an RCI. Access to Dillman Road would be maintained using a detour. A possible option for the detour route includes SR 37 to Walnut Street to Dillman Road for access east of SR 37, and SR 37 to Victor Pike to Dillman Road for access west of SR 37. The ultimate

determination of acceptable detour routes for Dillman Road will be determined after coordination with local stakeholders.

Land use in the vicinity of the project is primarily commercial. The INDOT Environmental Services Division (ESD) Ecology & Waterway Permitting Office (EWPO) will perform waters and wetlands determinations and a biological assessment to identify any ecological resources that may be present. This project qualifies for the application of the USFWS range-wide programmatic informal consultation for the Indiana bat and northern long-eared bat and project information will be submitted through USFWS's Information for Planning and Consultation (IPaC) separately.

Should we not receive your response within thirty (30) calendar days from the date of this letter, it will be assumed that your agency feels that there will be no adverse effects incurred as a result of the proposed project. However, should you find that an extension to the response time is necessary, a reasonable amount may be granted upon request. If you have any questions regarding this matter, please feel free to contact Mindy Baker, Environmental Manager, at mbaker2@indot.in.gov. Thank you in advance for your input.

Sincerely,

Mindy Baker
Environmental Manager
INDOT – Seymour District

Attachments –
ECL list
Maps



INDIANA DEPARTMENT OF TRANSPORTATION

Seymour District
185 Agrico Lane
Seymour, IN 47274

PHONE: 855-463-6848
FAX: (812) 522-7658

Eric Holcomb, Governor
Joe McGuinness, Commissioner

The following agencies received Early Coordination Letters:

Forest Supervisor
Hoosier National Forest
US Forest Service
811 Constitution Avenue
Bedford, Indiana 47421

Indiana Geological & Water Survey
611 North Walnut Grove
Bloomington, IN 47405
(Electronic Coordination)

Environmental Coordinator
Indiana Department of Natural Resources
Division of Fish and Wildlife
402 West Washington Street, Rm. W273
Indianapolis, IN 46204

Indiana Department of
Environmental Management
(Electronic Coordination)

Bloomington/Monroe County Metropolitan Planning
Organization (BMCMPPO)
401 North Morton Street, Ste. 130
Bloomington, IN 47402

Erica Tait
Federal Highway Administration
Federal Office Building, Room 254
575 North Pennsylvania Street
Indianapolis, Indiana 46204

David Dye
Environmental Section Manager
INDOT Seymour District

Brad Williamsons
Project Manager
INDOT Seymour District

State of Indiana
DEPARTMENT OF NATURAL RESOURCES
Division of Fish and Wildlife
Early Coordination/Environmental Assessment

DNR #: ER-24217

Request Received: November 4, 2021

Requestor: Indiana Department of Transportation
Mindy Baker
185 Agrico Lane
Seymour, IN 47274

Project: SR 37 and Dillman Road intersection improvement, near Bloomington; Des #1800371

County/Site info: Monroe

The Indiana Department of Natural Resources has reviewed the above referenced project per your request. Our agency offers the following comments for your information and in accordance with the National Environmental Policy Act of 1969.

If our agency has regulatory jurisdiction over the project, the recommendations contained in this letter may become requirements of any permit issued. If we do not have permitting authority, all recommendations are voluntary.

Regulatory Assessment: This proposal may require the formal approval of our agency pursuant to the Flood Control Act (IC 14-28-1) for any proposal to construct, excavate, or fill in or on the floodway of Clear Creek. Please submit more detailed plans to the Division of Water's Technical Services Section if you are unsure whether or not a permit will be required.

Natural Heritage Database: The Natural Heritage Program's data have been checked. The bat species below have been documented within 1/2 mile of the project area.

1. Little Brown Myotis (*Myotis lucifugus*); state endangered
2. Tricolored Bat (*Perimyotis subflavus*); state endangered
3. Eastern Red Bat (*Lasiurus borealis*); state special concern

Fish & Wildlife Comments: As long as no tree trimming or removal will occur, we do not foresee any impacts to the bat species above as a result of this project.

The measures below should be implemented to avoid, minimize, or compensate for impacts to fish, wildlife, and botanical resources:

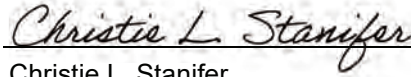
1. Revegetate all bare and disturbed areas with a mixture of grasses (excluding all varieties of tall fescue) and legumes as soon as possible upon completion; low endophyte tall fescue may be used in the ditch bottom and side slopes only.
2. Appropriately designed measures for controlling erosion and sediment must be implemented to prevent sediment from entering the stream or leaving the construction site; maintain these measures until construction is complete and all disturbed areas are stabilized.
3. Seed and protect all disturbed streambanks and slopes not protected by other methods that are 3:1 or steeper with erosion control blankets that are heavy-duty, biodegradable, and net free or that use loose-woven / Leno-woven netting to minimize the entrapment and snaring of small-bodied wildlife such as snakes and turtles (follow manufacturer's recommendations for selection and installation); seed and apply mulch on all other disturbed areas.

THIS IS NOT A PERMIT

State of Indiana
DEPARTMENT OF NATURAL RESOURCES
Division of Fish and Wildlife
Early Coordination/Environmental Assessment

Contact Staff:

Christie L. Stanifer, Environ. Coordinator, Fish & Wildlife
Our agency appreciates this opportunity to be of service. Please contact the above staff member at (317) 232-4080 if we can be of further assistance.



Date: December 3, 2021

Christie L. Stanifer
Environ. Coordinator
Division of Fish and Wildlife



Indiana Department of Environmental Management

We Protect Hoosiers and Our Environment.

100 North Senate Avenue - Indianapolis, IN 46204
(800) 451-6027 - (317) 232-8603 - www.idem.IN.gov

INDOT - Seymour

185 Agrico Lane
Seymour , IN 47274
Date

INDOT - Seymour

Mindy Baker
185 Agrico Lane
Seymour , IN 47274

To Engineers and Consultants Proposing Roadway Construction Projects:

RE: This project is an intersection improvement with added turn lanes at the intersection of SR 37 and Dillman Road in Bloomington. The intersection will be modified to a Reduced Conflict Intersection (RCI) with left turns lane in order to allow traffic to flow freely and improve safety. The project will eliminate the Dillman Road left turn and through movements, and all Dillman Road traffic will turn right. The northbound and southbound crossover intersections will be used by Dillman Road traffic to complete the left turn. Dillman Road will continue to be stop-controlled, and the crossovers and SR 37 left-turns will be yield controlled.

This letter from the Indiana Department of Environmental Management (IDEM) serves as a standardized response to enquiries inviting IDEM comments on roadway construction, reconstruction, or other improvement projects within existing roadway corridors when the proposed scope of the project is beneath the threshold requiring a formal National Environmental Policy Act-mandated Environmental Assessment or Environmental Impact Statement. As the letter attempts to address all roadway-related environmental topics of potential concern, it is possible that not every topic addressed in the letter will be applicable to your particular roadway project.

For additional information on specific roadway-related topics of interest, please visit the appropriate Web pages cited below, many of which provide contact information for persons within the various program areas who can answer questions not fully addressed in this letter. Also please be mindful that some environmental requirements may be subject to change and so each person intending to include a copy of this letter in their project documentation packet is advised to download the most recently revised version of the letter; found at: <http://www.in.gov/idem/5283.htm> (<http://www.in.gov/idem/5283.htm>).

To ensure that all environmentally-related issues are adequately addressed, IDEM recommends that you read this letter in its entirety, and consider each of the following issues as you move forward with the planning of your proposed roadway construction, reconstruction, or improvement project:

WATER AND BIOTIC QUALITY

1. Section 404 of the Clean Water Act requires that you obtain a permit from the U.S. Army Corps of Engineers (USACE) before discharging dredged or fill materials into any wetlands or other waters, such as rivers, lakes, streams, and ditches. Other activities regulated include the relocation, channelization, widening, or other such alteration of a stream, and the mechanical clearing (use of heavy construction equipment) of wetlands. Thus, as a project owner or sponsor, it is your responsibility to ensure that no wetlands are disturbed without the proper permit. Although you may initially refer to the U.S. Fish and Wildlife Service

National Wetland Inventory maps as a means of identifying potential areas of concern, please be mindful that those maps do not depict jurisdictional wetlands regulated by the USACE or the Department of Environmental Management. A valid jurisdictional wetlands determination can only be made by the USACE, using the 1987 Wetland Delineation Manual.

USACE recommends that you have a consultant check to determine whether your project will abut, or lie within, a wetland area. To view a list of consultants that have requested to be included on a list posted by the USACE on their Web site, see USACE Permits and Public Notices (<http://www.lrl.usace.army.mil/orf/default.asp>) (<http://www.lrl.usace.army.mil/orf/default.asp>) and then click on "Information" from the menu on the right-hand side of that page. Their "Consultant List" is the fourth entry down on the "Information" page. Please note that the USACE posts all consultants that request to appear on the list, and that inclusion of any particular consultant on the list does not represent an endorsement of that consultant by the USACE, or by IDEM.

Much of northern Indiana (Newton, Lake, Porter, LaPorte, St. Joseph, Elkhart, LaGrange, Steuben, and Dekalb counties; large portions of Jasper, Starke, Marshall, Noble, Allen, and Adams counties; and lesser portions of Benton, White, Pulaski, Kosciusko, and Wells counties) is served by the USACE District Office in Detroit (313-226-6812). The central and southern portions of the state (large portions of Benton, White, Pulaski, Kosciusko, and Wells counties; smaller portions of Jasper, Starke, Marshall, Noble, Allen, and Adams counties; and all other Indiana counties located in north-central, central, and southern Indiana) are served by the USACE Louisville District Office (502-315-6733).

Additional information on contacting these U.S. Army Corps of Engineers (USACE) District Offices, government agencies with jurisdiction over wetlands, and other water quality issues, can be found at <http://www.in.gov/idem/4396.htm> (<http://www.in.gov/idem/4396.htm>). IDEM recommends that impacts to wetlands and other water resources be avoided to the fullest extent.

2. In the event a Section 404 wetlands permit is required from the USACE, you also must obtain a Section 401 Water Quality Certification from the IDEM Office of Water Quality Wetlands Program. To learn more about the Wetlands Program, visit: <http://www.in.gov/idem/4384.htm> (<http://www.in.gov/idem/4384.htm>).
3. If the USACE determines that a wetland or other water body is isolated and not subject to Clean Water Act regulation, it is still regulated by the state of Indiana. A State Isolated Wetland permit from IDEM's Office of Water Quality (OWQ) is required for any activity that results in the discharge of dredged or fill materials into isolated wetlands. To learn more about isolated wetlands, contact the OWQ Wetlands Program at 317-233-8488.
4. If your project will involve over a 0.5 acre of wetland impact, stream relocation, or other large-scale alterations to water bodies such as the creation of a dam or a water diversion, you should seek additional input from the OWQ Wetlands Program staff. Consult the Web at: <http://www.in.gov/idem/4384.htm> (<http://www.in.gov/idem/4384.htm>) for the appropriate staff contact to further discuss your project.
5. Work within the one-hundred year floodway of a given water body is regulated by the Department of Natural Resources, Division of Water. The Division issues permits for activities regulated under the following statutes:
 - o IC 14-26-2 Lakes Preservation Act 312 IAC 11
 - o IC 14-26-5 Lowering of Ten Acre Lakes Act No related code
 - o IC 14-28-1 Flood Control Act 310 IAC 6-1
 - o IC 14-29-1 Navigable Waterways Act 312 IAC 6
 - o IC 14-29-3 Sand and Gravel Permits Act 312 IAC 6
 - o IC 14-29-4 Construction of Channels Act No related code

For information on these Indiana (statutory) Code and Indiana Administrative Code citations, see the DNR Web site at: <http://www.in.gov/dnr/water/9451.htm> (<http://www.in.gov/dnr/water/9451.htm>) . Contact the DNR Division of Water at 317-232-4160 for further information.

The physical disturbance of the stream and riparian vegetation, especially large trees overhanging any affected water bodies should be limited to only that which is absolutely necessary to complete the project. The shade provided by the large overhanging trees helps maintain proper stream temperatures and dissolved oxygen for aquatic life.

6. For projects involving construction activity (which includes clearing, grading, excavation and other land disturbing activities) that result in the disturbance of one (1), or more, acres of total land area, contact the Office of Water Quality – Watershed Planning Branch (317/233-1864) regarding the need for of a Rule 5 Storm Water Runoff Permit. Visit the following Web page
 - o <http://www.in.gov/idem/4902.htm> (<http://www.in.gov/idem/4902.htm>)

To obtain, and operate under, a Rule 5 permit you will first need to develop a Construction Plan (<http://www.in.gov/idem/4917.htm#constreq> (<http://www.in.gov/idem/4917.htm#constreq>)), and as described in 327 IAC 15-5-6.5 (<http://www.in.gov/legislative/iac/T03270/A00150> [PDF] (<http://www.in.gov/legislative/iac/T03270/A00150.PDF>), pages 16 through 19). Before you may apply for a Rule 5 Permit, or begin construction, you must submit your Construction Plan to your county Soil and Water Conservation District (SWCD) (<http://www.in.gov/isda/soil/contacts/map.html> (<http://www.in.gov/isda/soil/contacts/map.html>)).

Upon receipt of the construction plan, personnel of the SWCD or the Indiana Department of Environmental Management will review the plan to determine if it meets the requirements of 327 IAC 15-5. Plans that are deemed deficient will require re-submittal. If the plan is sufficient you will be notified and instructed to submit the verification to IDEM as part of the Rule 5 Notice of Intent (NOI) submittal. Once construction begins, staff of the SWCD or Indiana Department of Environmental Management will perform inspections of activities at the site for compliance with the regulation.

Please be mindful that approximately 149 Municipal Separate Storm Sewer System (MS4) areas are now being established by various local governmental entities throughout the state as part of the implementation of Phase II federal storm water requirements. All of these MS4 areas will eventually take responsibility for Construction Plan review, inspection, and enforcement. As these MS4 areas obtain program approval from IDEM, they will be added to a list of MS4 areas posted on the IDEM Website at: <http://www.in.gov/idem/4900.htm> (<http://www.in.gov/idem/4900.htm>).

If your project is located in an IDEM-approved MS4 area, please contact the local MS4 program about meeting their storm water requirements. Once the MS4 approves the plan, the NOI can be submitted to IDEM.

Regardless of the size of your project, or which agency you work with to meet storm water requirements, IDEM recommends that appropriate structures and techniques be utilized both during the construction phase, and after completion of the project, to minimize the impacts associated with storm water runoff. The use of appropriate planning and site development and appropriate storm water quality measures are recommended to prevent soil from leaving the construction site during active land disturbance and for post construction water quality concerns. Information and assistance regarding storm water related to construction activities are available from the Soil and Water Conservation District (SWCD) offices in each county or from IDEM.

7. For projects involving impacts to fish and botanical resources, contact the Department of Natural Resources - Division of Fish and Wildlife (317/232-4080) for addition project input.
8. For projects involving water main construction, water main extensions, and new public water supplies, contact the Office of Water Quality - Drinking Water Branch (317-308-3299) regarding the need for permits.
9. For projects involving effluent discharges to waters of the State of Indiana , contact the Office of Water Quality - Permits Branch (317-233-0468) regarding the need for a National Pollutant Discharge Elimination System (NPDES) permit.
10. For projects involving the construction of wastewater facilities and sewer lines, contact the Office of Water Quality - Permits Branch (317-232-8675) regarding the need for permits.

AIR QUALITY

The above-noted project should be designed to minimize any impact on ambient air quality in, or near, the project area. The project must comply with all federal and state air pollution regulations. Consideration should be given to the following:

1. Regarding open burning, and disposing of organic debris generated by land clearing activities; some types of open burning are allowed (<http://www.in.gov/idem/4148.htm> (<http://www.in.gov/idem/4148.htm>)) under specific conditions. You also can seek an open burning variance from IDEM.

However, IDEM generally recommends that you take vegetative wastes to a registered yard waste composting facility or that the waste be chipped or shredded with composting on site (you must register with IDEM if more than 2,000 pounds is to be composted; contact 317/232-0066). The finished compost can then be used as a mulch or soil amendment. You also may bury any vegetative wastes (such as leaves, twigs, branches, limbs, tree trunks and stumps) onsite, although burying large quantities of such material can lead to subsidence problems, later on.

Reasonable precautions must be taken to minimize fugitive dust emissions from construction and demolition activities. For example, wetting the area with water, constructing wind barriers, or treating dusty areas with chemical stabilizers (such as calcium chloride or several other commercial products). Dirt tracked onto paved roads from unpaved areas should be minimized.

Additionally, if construction or demolition is conducted in a wooded area where blackbirds have roosted or abandoned buildings or building sections in which pigeons or bats have roosted for 3-5 years precautionary measures should be taken to avoid an outbreak of histoplasmosis. This disease is caused by the fungus *Histoplasma capsulatum*, which stems from bird or bat droppings that have accumulated in one area for 3-5 years. The spores from this fungus become airborne when the area is disturbed and can cause infections over an entire community downwind of the site. The area should be wetted down prior to cleanup or demolition of the project site. For more detailed information on histoplasmosis prevention and control, please contact the Acute Disease Control Division of the Indiana State Department of Health at (317) 233-7272.

2. The U.S. EPA and the Surgeon General recommend that people not have long-term exposure to radon at levels above 4 pCi/L. (For a county-by-county map of predicted radon levels in Indiana, visit: <http://www.in.gov/idem/4145.htm> (<http://www.in.gov/idem/4145.htm>).

The U.S. EPA further recommends that all homes (and apartments within three stories of ground level) be tested for radon. If in-home radon levels are determined to be 4 pCi/L, or higher, EPA recommends a follow-up test. If the second test confirms that radon levels are 4 pCi/L, or higher, EPA recommends the installation

of radon-reduction measures. (For a list of qualified radon testers and radon mitigation (or reduction) specialists visit: http://www.in.gov/isdh/regsvcs/radhealth/pdfs/radon_testers_mitigators_list.pdf (http://www.in.gov/isdh/regsvcs/radhealth/pdfs/radon_testers_mitigators_list.pdf.) It also is recommended that radon reduction measures be built into all new homes, particularly in areas like Indiana that have moderate to high predicted radon levels.

To learn more about radon, radon risks, and ways to reduce exposure visit:

<http://www.in.gov/isdh/regsvcs/radhealth/radon.htm> (<http://www.in.gov/isdh/regsvcs/radhealth/radon.htm>), <http://www.in.gov/idem/4145.htm> (<http://www.in.gov/idem/4145.htm>), or <http://www.epa.gov/radon/index.html> (<http://www.epa.gov/radon/index.html>).

3. With respect to asbestos removal: all facilities slated for renovation or demolition (except residential buildings that have (4) four or fewer dwelling units and which will not be used for commercial purposes) must be inspected by an Indiana-licensed asbestos inspector prior to the commencement of any renovation or demolition activities. If regulated asbestos-containing material (RACM) that may become airborne is found, any subsequent demolition, renovation, or asbestos removal activities must be performed in accordance with the proper notification and emission control requirements.

If no asbestos is found where a renovation activity will occur, or if the renovation involves removal of less than 260 linear feet of RACM off of pipes, less than 160 square feet of RACM off of other facility components, or less than 35 cubic feet of RACM off of all facility components, the owner or operator of the project does not need to notify IDEM before beginning the renovation activity.

For questions on asbestos demolition and renovation activities, you can also call IDEM's Lead/Asbestos section at 1-888-574-8150.

However, in all cases where a demolition activity will occur (even if no asbestos is found), the owner or operator must still notify IDEM 10 working days prior to the demolition, using the form found at <http://www.in.gov/icpr/webfile/formsdiv/44593.pdf> (<http://www.in.gov/icpr/webfile/formsdiv/44593.pdf>).

Anyone submitting a renovation/demolition notification form will be billed a notification fee based upon the amount of friable asbestos containing material to be removed or demolished. Projects that involve the removal of more than 2,600 linear feet of friable asbestos containing materials on pipes, or 1,600 square feet or 400 cubic feet of friable asbestos containing material on other facility components, will be billed a fee of \$150 per project; projects below these amounts will be billed a fee of \$50 per project. All notification remitters will be billed on a quarterly basis.

For more information about IDEM policy regarding asbestos removal and disposal, visit: <http://www.in.gov/idem/4983.htm> (<http://www.in.gov/idem/4983.htm>).

4. With respect to lead-based paint removal: IDEM encourages all efforts to minimize human exposure to lead-based paint chips and dust. IDEM is particularly concerned that young children exposed to lead can suffer from learning disabilities. Although lead-based paint abatement efforts are not mandatory, any abatement that is conducted within housing built before January 1, 1978, or a child-occupied facility is required to comply with all lead-based paint work practice standards, licensing and notification requirements. For more information about lead-based paint removal visit: <http://www.in.gov/isdh/19131.htm> (<http://www.in.gov/isdh/19131.htm>).
5. Ensure that asphalt paving plants are permitted and operate properly. The use of cutback asphalt, or asphalt emulsion containing more than seven percent (7%) oil distillate, is prohibited during the months April through October. See 326 IAC 8-5-2, Asphalt Paving Rule

(<http://www.ai.org/legislative/iac/T03260/A00080.PDF>
(<http://www.ai.org/legislative/iac/T03260/A00080.PDF>)).

6. If your project involves the construction of a new source of air emissions or the modification of an existing source of air emissions or air pollution control equipment, it will need to be reviewed by the IDEM Office of Air Quality (OAQ). A registration or permit may be required under 326 IAC 2 (View at: www.ai.org/legislative/iac/t03260/a00020.pdf (<http://www.ai.org/legislative/iac/t03260/a00020.pdf>)). New sources that use or emit hazardous air pollutants may be subject to Section 112 of the Clean Air Act and corresponding state air regulations governing hazardous air pollutants.
7. For more information on air permits visit: <http://www.in.gov/idem/4223.htm> (<http://www.in.gov/idem/4223.htm>), or to initiate the IDEM air permitting process, please contact the Office of Air Quality Permit Reviewer of the Day at (317) 233-0178 or OAMPROD atdem.state.in.us.

LAND QUALITY

In order to maintain compliance with all applicable laws regarding contamination and/or proper waste disposal, IDEM recommends that:

1. If the site is found to contain any areas used to dispose of solid or hazardous waste, you need to contact the Office of Land Quality (OLQ) at 317-308-3103.
2. All solid wastes generated by the project, or removed from the project site, need to be taken to a properly permitted solid waste processing or disposal facility. For more information, visit <http://www.in.gov/idem/4998.htm> (<http://www.in.gov/idem/4998.htm>).
3. If any contaminated soils are discovered during this project, they may be subject to disposal as hazardous waste. Please contact the OLQ at 317-308-3103 to obtain information on proper disposal procedures.
4. If PCBs are found at this site, please contact the Industrial Waste Section of OLQ at 317-308-3103 for information regarding management of any PCB wastes from this site.
5. If there are any asbestos disposal issues related to this site, please contact the Industrial Waste Section of OLQ at 317-308-3103 for information regarding the management of asbestos wastes (Asbestos removal is addressed above, under Air Quality).
6. If the project involves the installation or removal of an underground storage tank, or involves contamination from an underground storage tank, you must contact the IDEM Underground Storage Tank program at 317/308-3039. See: <http://www.in.gov/idem/4999.htm> (<http://www.in.gov/idem/4999.htm>).

FINAL REMARKS

Should you need to obtain any environmental permits in association with this proposed project, please be mindful that IC 13-15-8 requires that you notify all adjoining property owners and/or occupants within ten days your submittal of each permit application. However, if you are seeking multiple permits, you can still meet the notification requirement with a single notice if all required permit applications are submitted with the same ten day period.

Should the scope of the proposed project be expanded to the extent that a National Environmental Policy Act Environmental Assessment (EA) or Environmental Impact Statement (EIS) is required, IDEM will actively participate in any early interagency coordination review of the project.

Meanwhile, please note that this letter does not constitute a permit, license, endorsement or any other form of approval on the part of the Indiana Department of Environmental Management regarding any project for which a copy of this letter is used. Also note that it is the responsibility of the project engineer or consultant using this letter to ensure that the most current draft of this document, which is located at <http://www.in.gov/idem/5284.htm> (<http://www.in.gov/idem/5284.htm>), is used.

Signature(s) of the Applicant

I acknowledge that the following proposed roadway project will be financed in part, or in whole, by public monies.

Project Description

This project is an intersection improvement with added turn lanes at the intersection of SR 37 and Dillman Road in Bloomington. The intersection will be modified to a Reduced Conflict Intersection (RCI) with left turns lane in order to allow traffic to flow freely and improve safety. The project will eliminate the Dillman Road left turn and through movements, and all Dillman Road traffic will turn right. The northbound and southbound crossover intersections will be used by Dillman Road traffic to complete the left turn. Dillman Road will continue to be stop-controlled, and the crossovers and SR 37 left-turns will be yield controlled.

With my signature, I do hereby affirm that I have read the letter from the Indiana Department of Environment that appears directly above. In addition, I understand that in order to complete that project in which I am interested, with a minimum of impact to the environment, I must consider all the issues addressed in the aforementioned letter, and further, that I must obtain any required permits.

Date: 11/4/2021

Signature of the INDOT
Project Engineer or Other Responsible Agent *Brad Williamson*

Date: _____

Signature of the
For Hire Consultant _____

Mindy Baker

Organization and Project Information

Project ID: Des No 1800371
Des. ID: Des No 1800371
Project Title: Intersection Improvement at SR 37 & Dillman Rd.
Name of Organization: INDOT - Seymour District
Requested by: Mindy Baker

Environmental Assessment Report

1. Geological Hazards:
 - Floodway
2. Mineral Resources:
 - Bedrock Resource: High Potential
 - Sand and Gravel Resource: None documented in the area
3. Active or abandoned mineral resources extraction sites:
 - Abandoned Industrial Minerals Quarries

*All map layers from Indiana Map (maps.indiana.edu)

DISCLAIMER:

This document was compiled by Indiana University, Indiana Geological Survey, using data believed to be accurate; however, a degree of error is inherent in all data. This product is distributed "AS-IS" without warranties of any kind, either expressed or implied, including but not limited to warranties of suitability to a particular purpose or use. No attempt has been made in either the design or production of these data and document to define the limits or jurisdiction of any federal, state, or local government. The data used to assemble this document are intended for use only at the published scale of the source data or smaller (see the metadata links below) and are for reference purposes only. They are not to be construed as a legal document or survey instrument. A detailed on-the-ground survey and historical analysis of a single site may differ from these data and this document.

This information was furnished by Indiana Geological Survey

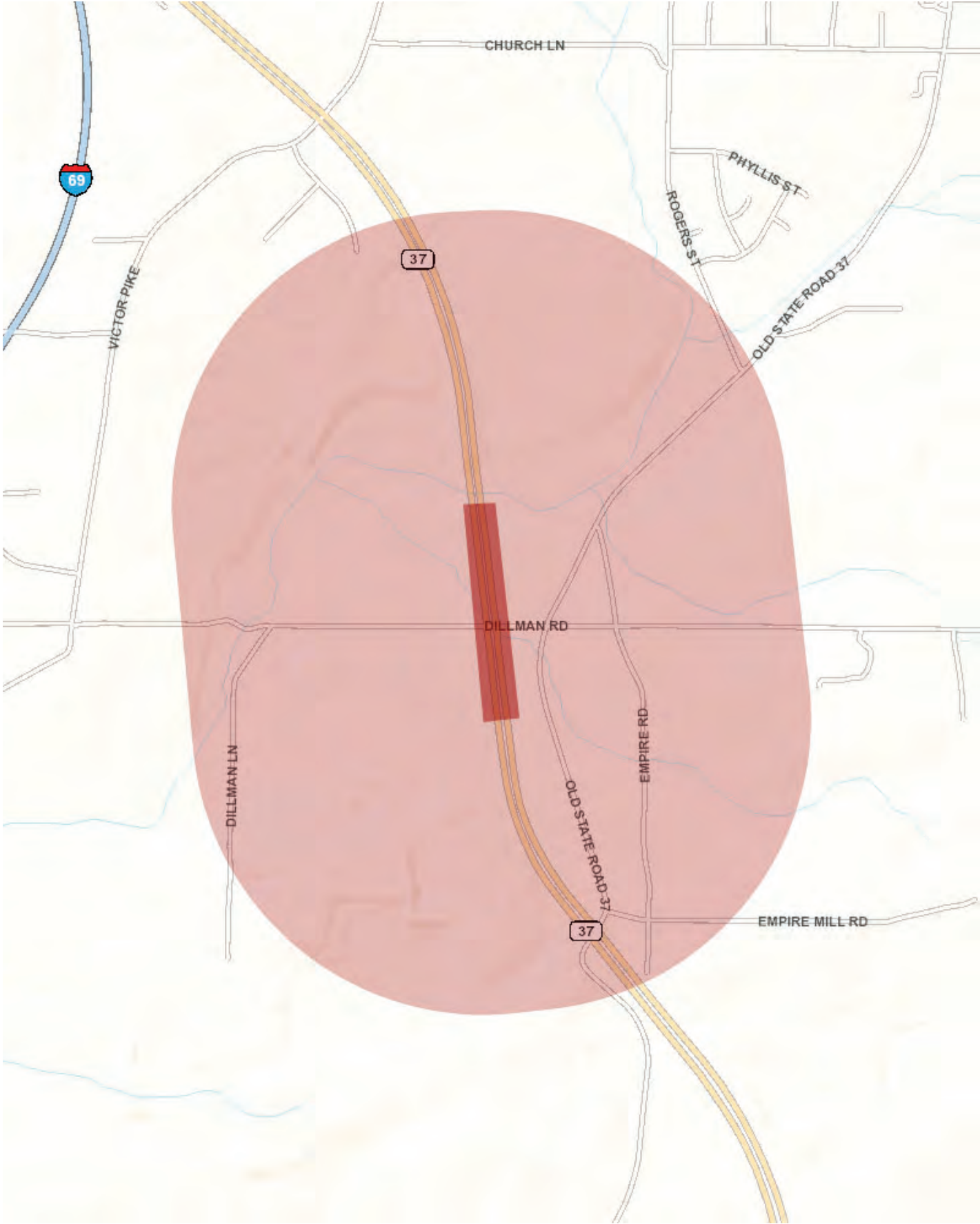
Address: 1001 E. 10th St., Bloomington, IN 47405

Email: IGSEnvir@indiana.edu

Phone: 812 855-7428

Date: November 04, 2021

C-13



Metadata:

- https://maps.indiana.edu/metadata/Geology/Industrial_Minerals_Quarries_Abandoned.html
- https://maps.indiana.edu/metadata/Hydrology/Floodplains_FIRM.html
- https://maps.indiana.edu/metadata/Geology/Bedrock_Geology.html



INDIANA DEPARTMENT OF TRANSPORTATION

Driving Indiana's Economic Growth

Seymour District
185 Agrico Lane
Seymour, Indiana, 47274

PHONE: (812) 524-3971
FAX: (812) 522-7658

Eric Holcomb, Governor
Joe McGuinness, Commissioner

November 13, 2020

TO: MS4 COORDINATOR
Monroe County
501 N. Morton Street
Bloomington, IN 47404

FROM: Mindy Baker
INDOT – Seymour District
185 Agrico Lane
Seymour, IN 47274

RE: Early Notification
INDOT DES Number: 1800371
Location: SR 37, Monroe County
Description: Intersection Improvement with Added Turn Lanes at Dillman Road

The Indiana Department of Transportation (INDOT) and Federal Highway Administration (FHWA) intend to proceed with the above project. You are being notified because this project lies within an Urbanized Area Boundary (UAB). In accordance with 327 IAC 15-13 (Rule 13 - Municipal Separate Storm Sewer Systems), INDOT has developed a Storm Water Quality Management Plan (SWQMP).

As part of its implementation, projects falling within the UAB will be required to consider appropriate post construction storm water quality best management practices (BMPs). These BMPs should take into consideration the available space, pollutants of concern and receiving waters.

This letter is for notification purposes only, and no action is required by you; however, if you would like to provide your input on water quality concerns, please provide this information **within thirty (30) calendar days** from the date of this letter to the undersigned. Should we not receive your response within the specified timeframe, it will be assumed that your agency does not have additional concerns about water quality issues resulting from the proposed project. Should you find that an extension to the response time is necessary, a reasonable amount of time may be granted upon request. If you have any questions regarding this matter, please feel free to contact me at 812/524-3746. Thank you in advance for your attention to this matter.

Sincerely,
Mindy Baker
Environmental Manager 2
INDOT – Seymour District

From: [Terry Quillman](#)
To: [Baker, Mindy](#)
Cc: [Paul Satterly](#)
Subject: RE: Des No 1800371 MS4 Early Notification Letter
Date: Monday, November 16, 2020 2:28:00 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)
[image006.png](#)

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Mindy,

Regarding post construction BMPs, I think front slopes that are approximately 50' provide reasonable Filter Strips. Place check dams in the flowline with small outlets together with the Filter strip should provide adequate control.

Thanks for the opportunity to provide input.

Terry Quillman,
MC MS4 Coordinator
812.349.2499

From: Baker, Mindy <MBaker2@indot.IN.gov>
Sent: Friday, November 13, 2020 2:24 PM
To: Terry Quillman <tquillman@co.monroe.in.us>
Subject: Des No 1800371 MS4 Early Notification Letter

Good afternoon,

Please find the attached notification letter for an added turn lane project on SR 37 at the intersection with Dillman Road. Please let me know if you have any questions.

Thanks,

Mindy Baker

Environmental Manager

185 Agrico Lane
Seymour, IN 47274

Office: (812) 524-3746

Email: mbaker2@indot.in.gov





United States Department of the Interior



FISH AND WILDLIFE SERVICE

Indiana Ecological Services Field Office

620 South Walker Street

Bloomington, IN 47403-2121

Phone: (812) 334-4261 Fax: (812) 334-4273

<http://www.fws.gov/midwest/Endangered/section7/s7process/step1.html>

In Reply Refer To:

December 17, 2021

Consultation code: 03E12000-2022-I-0613

Event Code: 03E12000-2022-E-02674

Project Name: Des No 1800371, Intersection Improvement at SR 37 and Dillman Road in Bloomington/Monroe County

Subject: Concurrence verification letter for the 'Des No 1800371, Intersection Improvement at SR 37 and Dillman Road in Bloomington/Monroe County' project under the revised February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects within the Range of the Indiana Bat and Northern Long-eared Bat.

To whom it may concern:

The U.S. Fish and Wildlife Service (Service) has received your request to verify that the **Des No 1800371, Intersection Improvement at SR 37 and Dillman Road in Bloomington/Monroe County** (Proposed Action) may rely on the concurrence provided in the February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects within the Range of the Indiana Bat and Northern Long-eared Bat (PBO) to satisfy requirements under Section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended; 16 U.S.C 1531 *et seq.*).

Based on the information you provided (Project Description shown below), you have determined that the Proposed Action is within the scope and adheres to the criteria of the PBO, including the adoption of applicable avoidance and minimization measures, and may affect, but is not likely to adversely affect (NLAA) the endangered Indiana bat (*Myotis sodalis*) and/or the threatened Northern long-eared bat (*Myotis septentrionalis*).

The Service has 14 calendar days to notify the lead Federal action agency or designated non-federal representative if we determine that the Proposed Action does not meet the criteria for a NLAA determination under the PBO. If we do not notify the lead Federal action agency or designated non-federal representative within that timeframe, you may proceed with the Proposed Action under the terms of the NLAA concurrence provided in the PBO. This verification period allows Service Field Offices to apply local knowledge to implementation of the PBO, as we may

identify a small subset of actions having impacts that were unanticipated. In such instances, Service Field Offices may request additional information that is necessary to verify inclusion of the proposed action under the PBO.

For Proposed Actions that include bridge/structure removal, replacement, and/or maintenance activities: If your initial bridge/structure assessments failed to detect Indiana bats, but you later detect bats during construction, please submit the Post Assessment Discovery of Bats at Bridge/Structure Form (User Guide Appendix E) to this Service Office. In these instances, potential incidental take of Indiana bats may be exempted provided that the take is reported to the Service.

If the Proposed Action is modified, or new information reveals that it may affect the Indiana bat and/or Northern long-eared bat in a manner or to an extent not considered in the PBO, further review to conclude the requirements of ESA Section 7(a)(2) may be required. If the Proposed Action may affect any other federally-listed or proposed species, and/or any designated critical habitat, additional consultation between the lead Federal action agency and this Service Office is required. If the proposed action has the potential to take bald or golden eagles, additional coordination with the Service under the Bald and Golden Eagle Protection Act may also be required. In either of these circumstances, please contact this Service Office.

The following species may occur in your project area and **are not** covered by this determination:

- Monarch Butterfly *Danaus plexippus* Candidate

Project Description

The following project name and description was collected in IPaC as part of the endangered species review process.

Name

Des No 1800371, Intersection Improvement at SR 37 and Dillman Road in Bloomington/
Monroe County

Description

The project is an intersection improvement at SR 37 and Dillman Road in Bloomington/
Monroe County, IN. The reduced conflict intersection (RCI) design will eliminate the
Dillman Road through and left-turn movements at the main intersection. All Dillman Road
traffic will turn right and utilize crossover intersections that will be constructed in the
medians. Left turns from SR 37 will be allowed and will yield to oncoming traffic. The
intersection of SR 37 and Dillman Road will be stop-controlled and the crossovers will be
yield controlled. SR 37 traffic will not stop at any of the intersections. The project has a
length of approximately 2500 feet and widening will occur for a length of 200 feet at the
north and southbound project extents to allow for larger trucks to complete the J-turn. The
design will also include lighting for the main intersection and the crossover intersections.
INDOT prefers lighting at RCIs and it can either be continuous lighting from crossover to
crossover or spot lighting at each of the three intersections. Dillman Road will be temporarily
closed in order to reconfigure the intersection to an RCI and access will be maintained using
a detour. No bats were identified within 0.5 mile of the project area and no trees will be
removed. All work will occur within existing right of way. Construction is expected in fall
2023.

Determination Key Result

Based on your answers provided, this project(s) may affect, but is not likely to adversely affect the endangered Indiana bat and/or the threatened Northern long-eared bat, therefore, consultation with the U.S. Fish and Wildlife Service pursuant to Section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended 16 U.S.C. 1531 *et seq.*) is required. However, also based on your answers provided, this project may rely on the concurrence provided in the revised February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects within the Range of the Indiana Bat and Northern Long-eared Bat.

Qualification Interview

1. Is the project within the range of the Indiana bat^[1]?

[1] See [Indiana bat species profile](#)

Automatically answered

Yes

2. Is the project within the range of the Northern long-eared bat^[1]?

[1] See [Northern long-eared bat species profile](#)

Automatically answered

Yes

3. Which Federal Agency is the lead for the action?

A) *Federal Highway Administration (FHWA)*

4. Are *all* project activities limited to non-construction^[1] activities only? (examples of non-construction activities include: bridge/abandoned structure assessments, surveys, planning and technical studies, property inspections, and property sales)

[1] Construction refers to activities involving ground disturbance, percussive noise, and/or lighting.

No

5. Does the project include *any* activities that are **greater than** 300 feet from existing road/rail surfaces^[1]?

[1] Road surface is defined as the actively used [e.g. motorized vehicles] driving surface and shoulders [may be pavement, gravel, etc.] and rail surface is defined as the edge of the actively used rail ballast.

No

6. Does the project include *any* activities **within** 0.5 miles of a known Indiana bat and/or NLEB hibernaculum^[1]?

[1] For the purpose of this consultation, a hibernaculum is a site, most often a cave or mine, where bats hibernate during the winter (see suitable habitat), but could also include bridges and structures if bats are found to be hibernating there during the winter.

No

7. Is the project located **within** a karst area?

Yes

8. Will the project include *any* type of activity that could impact a **known** hibernaculum^[1], or impact a karst feature (e.g., sinkhole, losing stream, or spring) that could result in effects to a **known** hibernaculum?

[1] For the purpose of this consultation, a hibernaculum is a site, most often a cave or mine, where bats hibernate during the winter (see suitable habitat), but could also include bridges and structures if bats are found to be hibernating there during the winter.

No

9. Is there *any* suitable^[1] summer habitat for Indiana Bat or NLEB **within** the project action area^[2]? (includes any trees suitable for maternity, roosting, foraging, or travelling habitat)

[1] See the Service's [summer survey guidance](#) for our current definitions of suitable habitat.

[2] The action area is defined as all areas to be affected directly or indirectly by the Federal action and not merely the immediate area involved in the action (50 CFR Section 402.02). Further clarification is provided by the [national consultation FAQs](#).

Yes

10. Will the project remove *any* suitable summer habitat^[1] and/or remove/trim any existing trees **within** suitable summer habitat?

[1] See the Service's [summer survey guidance](#) for our current definitions of suitable habitat.

No

11. Have presence/probable absence (P/A) summer surveys^{[1][2]} been conducted^{[3][4]} **within** the suitable habitat located within your project action area?

[1] See the Service's [summer survey guidance](#) for our current definitions of suitable habitat.

[2] Presence/probable absence summer surveys conducted within the fall swarming/spring emergence home range of a documented Indiana bat hibernaculum (contact local Service Field Office for appropriate distance from hibernacula) that result in a negative finding requires additional consultation with the local Service Field Office to determine if clearing of forested habitat is appropriate and/or if seasonal clearing restrictions are needed to avoid and minimize potential adverse effects on fall swarming and spring emerging Indiana bats.

[3] For projects within the range of either the Indiana bat or NLEB in which suitable habitat is present, and no bat surveys have been conducted, the transportation agency will assume presence of the appropriate species. This assumption of presence should be based upon the presence of suitable habitat and the capability of bats to occupy it because of their mobility.

[4] Negative presence/probable absence survey results obtained using the [summer survey guidance](#) are valid for a minimum of two years from the completion of the survey unless new information (e.g., other nearby surveys) suggest otherwise.

No

12. Does the project include activities **within documented Indiana bat habitat**^{[1][2]}?

[1] Documented roosting or foraging habitat – for the purposes of this consultation, we are considering documented habitat as that where Indiana bats and/or NLEB have actually been captured and tracked using (1) radio telemetry to roosts; (2) radio telemetry triangulation/triangulation to estimate foraging areas; or (3) foraging areas with repeated use documented using acoustics. Documented roosting habitat is also considered as suitable summer habitat within 0.25 miles of documented roosts.)

[2] For the purposes of this key, we are considering documented corridors as that where Indiana bats and/or NLEB have actually been captured and tracked to using (1) radio telemetry; or (2) treed corridors located directly between documented roosting and foraging habitat.

No

13. Does the project include activities **within documented NLEB habitat**^{[1][2]}?

[1] Documented roosting or foraging habitat – for the purposes of this consultation, we are considering documented habitat as that where Indiana bats and/or NLEB have actually been captured and tracked using (1) radio telemetry to roosts; (2) radio telemetry triangulation/triangulation to estimate foraging areas; or (3) foraging areas with repeated use documented using acoustics. Documented roosting habitat is also considered as suitable summer habitat within 0.25 miles of documented roosts.)

[2] For the purposes of this key, we are considering documented corridors as that where Indiana bats and/or NLEB have actually been captured and tracked to using (1) radio telemetry; or (2) treed corridors located directly between documented roosting and foraging habitat.

No

14. Does the project include wetland or stream protection activities associated with compensatory wetland mitigation?

No

15. Does the project include slash pile burning?

No

16. Does the project include *any* bridge removal, replacement, and/or maintenance activities (e.g., any bridge repair, retrofit, maintenance, and/or rehabilitation work)?

No

17. Does the project include the removal, replacement, and/or maintenance of *any* structure other than a bridge? (e.g., rest areas, offices, sheds, outbuildings, barns, parking garages, etc.)

No

18. Will the project involve the use of **temporary** lighting *during* the active season?

Yes

19. Is there *any* suitable habitat **within** 1,000 feet of the location(s) where **temporary** lighting will be used?

Yes

20. Will the project install new or replace existing **permanent** lighting?

Yes

21. Is there *any* suitable habitat **within** 1,000 feet of the location(s) where **permanent** lighting will be installed or replaced?

Yes

22. Does the project include percussives or other activities (**not including tree removal/trimming or bridge/structure work**) that will increase noise levels above existing traffic/background levels?

No

23. Are *all* project activities that are **not associated with** habitat removal, tree removal/trimming, bridge and/or structure activities, temporary or permanent lighting, or use of percussives, limited to actions that DO NOT cause any additional stressors to the bat species?

Examples: lining roadways, unlighted signage , rail road crossing signals, signal lighting, and minor road repair such as asphalt fill of potholes, etc.

Yes

24. Will the project raise the road profile **above the tree canopy**?

No

25. Are the project activities that are not associated with habitat removal, tree removal/trimming, bridge and/or structure activities, temporary or permanent lighting, or use of percussives consistent with a No Effect determination in this key?

Automatically answered

Yes, other project activities are limited to actions that DO NOT cause any additional stressors to the bat species as described in the BA/BO

26. **General AMM 1**

Will the project ensure *all* operators, employees, and contractors working in areas of known or presumed bat habitat are aware of *all* FHWA/FRA/FTA (Transportation Agencies) environmental commitments, including all applicable Avoidance and Minimization Measures?

Yes

27. **Hibernacula AMM 1**

Will the project ensure that on-site personnel will use best management practices^[1], secondary containment measures, or other standard spill prevention and countermeasures to avoid impacts to possible hibernacula?

[1] Coordinate with the appropriate Service Field Office on recommended best management practices for karst in your state.

Yes

28. **Hibernacula AMM 1**

Will the project ensure that, where practicable, a 300 foot buffer will be employed to separate fueling areas and other major containment risk activities from caves, sinkholes, losing streams, and springs in karst topography?

Yes

29. **Lighting AMM 1**

Will *all* **temporary** lighting be directed away from suitable habitat during the active season?

Yes

30. **Lighting AMM 2**

Does the lead agency use the BUG (Backlight, Uplight, and Glare) system developed by the Illuminating Engineering Society^{[1][2]} to rate the amount of light emitted in unwanted directions?

[1] Refer to [Fundamentals of Lighting - BUG Ratings](#)

[2] Refer to [The BUG System—A New Way To Control Stray Light](#)

Yes

31. **Lighting AMM 2**

Will the **permanent** lighting be designed to be as close to 0 for all three BUG ratings as possible, with a priority of "uplight" of 0 and "backlight" as low as practicable?

Yes

Project Questionnaire

1. Have you made a No Effect determination for *all* other species indicated on the FWS IPaC generated species list?

N/A

2. Have you made a May Affect determination for *any* other species on the FWS IPaC generated species list?

N/A

Avoidance And Minimization Measures (AMMs)

This determination key result includes the committment to implement the following Avoidance and Minimization Measures (AMMs):

LIGHTING AMM 1

Direct temporary lighting away from suitable habitat during the active season.

LIGHTING AMM 2

When installing new or replacing existing permanent lights, use downward-facing, full cut-off lens lights (with same intensity or less for replacement lighting); or for those transportation agencies using the BUG system developed by the Illuminating Engineering Society, be as close to 0 for all three ratings with a priority of "uplight" of 0 and "backlight" as low as practicable.

GENERAL AMM 1

Ensure all operators, employees, and contractors working in areas of known or presumed bat habitat are aware of all FHWA/FRA/FTA (Transportation Agencies) environmental commitments, including all applicable AMMs.

HIBERNACULA AMM 1

For projects located within karst areas, on-site personnel will use best management practices, secondary containment measures, or other standard spill prevention and countermeasures to avoid impacts to possible hibernacula. Where practicable, a 300 foot buffer will be employed to separate fueling areas and other major containment risk activities from caves, sinkholes, losing streams, and springs in karst topography.

Determination Key Description: FHWA, FRA, FTA Programmatic Consultation For Transportation Projects Affecting NLEB Or Indiana Bat

This key was last updated in IPaC on April 22, 2021. Keys are subject to periodic revision.

This decision key is intended for projects/activities funded or authorized by the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), and/or Federal Transit Administration (FTA), which may require consultation with the U.S. Fish and Wildlife Service (Service) under Section 7 of the Endangered Species Act (ESA) for the endangered **Indiana bat** (*Myotis sodalis*) and the threatened **Northern long-eared bat** (NLEB) (*Myotis septentrionalis*).

This decision key should only be used to verify project applicability with the Service's [February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects](#). The programmatic biological opinion covers limited transportation activities that may affect either bat species, and addresses situations that are both likely and not likely to adversely affect either bat species. This decision key will assist in identifying the effect of a specific project/activity and applicability of the programmatic consultation. The programmatic biological opinion is not intended to cover all types of transportation actions. Activities outside the scope of the programmatic biological opinion, or that may affect ESA-listed species other than the Indiana bat or NLEB, or any designated critical habitat, may require additional ESA Section 7 consultation.



United States Department of the Interior



FISH AND WILDLIFE SERVICE

Indiana Ecological Services Field Office

620 South Walker Street

Bloomington, IN 47403-2121

Phone: (812) 334-4261 Fax: (812) 334-4273

<http://www.fws.gov/midwest/Endangered/section7/s7process/step1.html>

In Reply Refer To:

December 17, 2021

Consultation Code: 03E12000-2022-SLI-0613

Event Code: 03E12000-2022-E-02673

Project Name: Des No 1800371, Intersection Improvement at SR 37 and Dillman Road in Bloomington/Monroe County

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The attached species list identifies any federally threatened, endangered, proposed and candidate species that may occur within the boundary of your proposed project or may be affected by your proposed project. The list also includes designated critical habitat if present within your proposed project area or affected by your project. This list is provided to you as the initial step of the consultation process required under section 7(c) of the Endangered Species Act, also referred to as Section 7 Consultation.

Section 7 of the Endangered Species Act of 1973 requires that actions authorized, funded, or carried out by Federal agencies not jeopardize federally threatened or endangered species or adversely modify designated critical habitat. To fulfill this mandate, Federal agencies (or their designated non-federal representative) must consult with the Service if they determine their project “may affect” listed species or critical habitat.

Under 50 CFR 402.12(e) (the regulations that implement Section 7 of the Endangered Species Act) the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally. You may verify the list by visiting the ECOS-IPaC website <http://ecos.fws.gov/ipac/> at regular intervals during project planning and implementation and completing the same process you used to receive the attached list. As an alternative, you may contact this Ecological Services Field Office for updates.

Please use the species list provided and visit the U.S. Fish and Wildlife Service’s Region 3 Section 7 Technical Assistance website at - <http://www.fws.gov/midwest/endangered/section7/s7process/index.html>. This website contains step-by-step instructions which will help you

determine if your project will have an adverse effect on listed species and will help lead you through the Section 7 process.

For all **wind energy projects** and **projects that include installing towers that use guy wires or are over 200 feet in height**, please contact this field office directly for assistance, even if no federally listed plants, animals or critical habitat are present within your proposed project or may be affected by your proposed project.

Although no longer protected under the Endangered Species Act, be aware that bald eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*) and Migratory Bird Treaty Act (16 U.S.C. 703 *et seq.*), as are golden eagles. Projects affecting these species may require measures to avoid harming eagles or may require a permit. If your project is near an eagle nest or winter roost area, see our Eagle Permits website at <http://www.fws.gov/midwest/midwestbird/EaglePermits/index.html> to help you determine if you can avoid impacting eagles or if a permit may be necessary.

We appreciate your concern for threatened and endangered species. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Indiana Ecological Services Field Office

620 South Walker Street
Bloomington, IN 47403-2121
(812) 334-4261

Project Summary

Consultation Code: 03E12000-2022-SLI-0613

Event Code: Some(03E12000-2022-E-02673)

Project Name: Des No 1800371, Intersection Improvement at SR 37 and Dillman Road in Bloomington/Monroe County

Project Type: TRANSPORTATION

Project Description: The project is an intersection improvement at SR 37 and Dillman Road in Bloomington/Monroe County, IN. The reduced conflict intersection (RCI) design will eliminate the Dillman Road through and left-turn movements at the main intersection. All Dillman Road traffic will turn right and utilize crossover intersections that will be constructed in the medians. Left turns from SR 37 will be allowed and will yield to oncoming traffic. The intersection of SR 37 and Dillman Road will be stop-controlled and the crossovers will be yield controlled. SR 37 traffic will not stop at any of the intersections. The project has a length of approximately 2500 feet and widening will occur for a length of 200 feet at the north and southbound project extents to allow for larger trucks to complete the J-turn. Dillman Road will be temporarily closed in order to reconfigure the intersection to an RCI and access will be maintained using a detour. No bats were identified within 0.5 mile of the project area and no trees will be removed. All work will occur within existing right of way. Construction is expected in fall 2023.

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@39.09316095,-86.54591871554118,14z>



Counties: Monroe County, Indiana

Endangered Species Act Species

There is a total of 3 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Note that 1 of these species should be considered only under certain conditions.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

| NAME | STATUS |
|--|------------|
| Indiana Bat <i>Myotis sodalis</i> There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/5949 | Endangered |
| Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. This species only needs to be considered under the following conditions: <ul style="list-style-type: none"> ▪ Incidental take of the NLEB is not prohibited here. Federal agencies may consult using the 4(d) rule streamlined process. Transportation projects may consult using the programmatic process. See www.fws.gov/midwest/endangered/mammals/nleb/index.html Species profile: https://ecos.fws.gov/ecp/species/9045 | Threatened |

Insects

| NAME | STATUS |
|--|-----------|
| Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743 | Candidate |

Critical habitats

There is 1 critical habitat wholly or partially within your project area under this office's jurisdiction.

| NAME | STATUS |
|---|--------------|
| Indiana Bat <i>Myotis sodalis</i> https://ecos.fws.gov/ecp/species/5949#crithab | Final |

Appendix D

Cultural Resources

Minor Projects PA Project Assessment Form

Date: 12/7/2020

Project Designation Number: 1800371

Route Number: State Road (SR) 37

Project Description: Intersect. Improv. W/ Added Turn Lanes, At intersection of SR 37 and Dillman Road

The project is a proposed intersection improvement with added turns lanes at SR 37 and Dillman Road near Bloomington, IN. The intersection will be converted to a J-turn to improve the safety of the intersection and reduce the frequency and severity of collisions occurring. The current project has a letting date of 8/09/2023. No new Right of Way will be needed for this proposed project.

Feature crossed (if applicable): N/A

City/Township: Bloomington / Perry

County: Monroe

Information reviewed (please check all that apply):

- General project location map USGS map Aerial photograph Interim Report
 Written description of project area General project area photos Soil survey data
 Previously completed historic property reports Previously completed archaeology reports
 Bridge Inspection Information SHAARD SHAARD GIS Streetview Imagery

Other (please specify): Bridge Inspection Application System (BIAS); Indiana State Historic Architectural and Archaeological Research Database (SHAARD); Indiana Buildings, Bridges, and Cemeteries Map website; Arc Map GIS; Miami County GIS (accessed via <https://monroein.elevatemaps.io>); online street-view imagery; MPPA application (including maps and photographs) sent by INDOT Seymour District Environmental Staff, dated November 10th, 2020 and on file at Cultural Resources Office (CRO).

Freudenrich, T. D.

1977 Test Excavations at the Archaeological Site 12Mo74: An Assessment of the Impact of the Construction of the Dillman Road Sewage Treatment Facility. Indiana. Glenn A, Black Laboratory of Archaeology, Indiana University. Submitted to the City of Bloomington. Report on file at IDNR, DHPA.

Geundling, Randall L.

1976 An Archaeological Reconnaissance of the Dillman Road Sewage Treatment Plant Alternative Sites 2B and 4B Monroe County, Indiana. Glenn A, Black Laboratory of Archaeology, Indiana University. Submitted to the City of Bloomington. Report on file at IDNR, DHPA.

Please specify all applicable categories and condition(s) (conditions that are applicable are highlighted):

B-2. Installation of new lighting, signals, signage and other traffic control devices under the following conditions [*BOTH Condition A, which pertains to Archaeological Resources, and Condition B, which pertains to Above-Ground Resources, must be satisfied*]:

Minor Projects PA Project Assessment Form

Condition A (Archaeological Resources)

One of the two conditions listed below must be met (EITHER Condition I or Condition ii must be satisfied):

- i. Work occurs in previously disturbed soils; *OR*
- ii. Work occurs in undisturbed soils and an archaeological investigation conducted by the applicant and reviewed by INDOT Cultural Resources Office determines that no National Register-listed or potentially National Register-eligible archaeological resources are present within the project area. If the archaeological investigation locates National Register-listed or potentially National Register-eligible archaeological resources, then full Section 106 review will be required. Copies of any archaeological reports prepared for the project will be provided to the DHPA and any archaeological site form information will be entered directly into the SHAARD by the applicant. The archaeological reports will also be available for viewing (by Tribes only) on INSCOPE.

Condition B (Above-Ground Resources)

Work does not occur adjacent to or within a National Register-listed or National Register-eligible district or individual above-ground resource.

B-3. Construction of added travel, turning, or auxiliary lanes (e.g., bicycle, truck climbing, acceleration and deceleration lanes) and shoulder widening under the following conditions [***BOTH Condition A, which pertains to Archaeological Resources, and Condition B, which pertains to Above-Ground Resources, must be satisfied***]:

Condition A (Archaeological Resources)

One of the two conditions listed below must be met (EITHER Condition i or Condition ii must be satisfied):

- i. Work occurs in previously disturbed soils; *OR*
- ii. Work occurs in undisturbed soils and an archaeological investigation conducted by the applicant and reviewed by INDOT Cultural Resources Office determines that no National Register-listed or potentially National Register-eligible archaeological resources are present within the project area. If the archaeological investigation locates National Register-listed or potentially National Register-eligible archaeological resources, then full Section 106 review will be required. Copies of any archaeological reports prepared for the project will be provided to the DHPA and any archaeological site form information will be entered directly into the SHAARD by the applicant. The archaeological reports will also be available for viewing (by Tribes only) on INSCOPE.

Condition B (Above-Ground Resources)

Work does not occur adjacent to or within a National Register-listed or National Register-eligible district or individual above-ground resource.

Are there any commitments associated with this project? If yes, please explain and include in the Additional Comments Section below. yes no

Does the project result in a de minimis impact to a Section 4(f) protected historic resource? If yes, please explain in the Additional Comments Section below. yes no

Additional Comments:

Above-ground Resources

An INDOT Cultural Resources historian who meets the Secretary of the Interior's Professional Qualification Standards as per 36 CFR Part 61 performed a desktop review, checking the Indiana Register of Historic Sites and Structures (State Register) and National Register of Historic Places (National Register) lists for Monroe County. No listed resources are located within 0.25 mile of the project area, a distance that serves as an adequate area of potential effects given the project scope and terrain.

Minor Projects PA Project Assessment Form

The Indiana Historic Sites and Structures Inventory (IHSSI) and National Register information for Miami County are available in the Indiana State Historic Architectural and Archaeological Research Database (SHAARD) and the Indiana Historic Buildings, Bridges, and Cemeteries Map (IHBBCM). All sites were reviewed through the IHBBCM, which contains the most recently updated SHAARD information. No previously IHSSI documented resources rated higher than “Contributing” are located within 0.25 mile of the project area.

According to the IHSSI rating system, generally properties rated "contributing" do not possess the level of historical or architectural significance necessary to be considered individually National Register-eligible, although they would contribute to a historic district. If they retain material integrity, properties rated “notable” might possess the necessary level of significance after further research. Properties rated “outstanding” usually possess the necessary level of significance to be considered National Register eligible if they retain material integrity.

The project area was reviewed by an INDOT CRO historian through aerial photography, online street-view imagery, and the Monroe County GIS website. The project area is located along a four (4) lane divided highway in an exurban setting. The adjacent above-ground resources primarily consist of early to late twentieth century commercial, municipal, and residential buildings. None of the resources appear to possess the significance or integrity required to be considered NRHP-eligible.

Based on the available information, as summarized above, no above-ground concerns exist.

Archaeological Resources

An INDOT, CRO archaeologist, who met the Secretary of the Interior’s Professional Qualification Standards as per 36 CFR Part 61 completes an archaeological record check for the proposed project area. The records check found no record of a reconnaissance within the current project area. One large archaeological site, 12-Mo-74, was located within the current project area. Originally documented in the 1940’s, this is a large prehistoric site of undetermined age. The site was relocated and tested during investigations for proposed sewer treatment plan locations (Freudenrich 1977; Guendling 1976). Though well outside the SR 37 highway corridor, the reexamination and testing did not produce diagnostic artifacts or features. However, outside the area tested the recommendation for additional work remains.

The current project will stay within the disturbed SR 37 corridor. SR 37 is a four-lane divided highway in this location with east and west turn lanes for both the north bound and south bound traffic. Project construction will be confined to the existing pavement and the median. The highway is cut into hills north and south of the intersection with Dillman Road and elevated at the intersection with associated ditches creating a wide area of disturbance as a buffer from construction activities.

No archaeological investigation is necessary for this project because, as planned, there are no potential impacts to archaeological resources.

Accidental Discovery: If any archaeological artifacts or human remains are uncovered during construction, demolition, or earth moving activities, construction in the immediate area of the find will be stopped, and the INDOT Cultural Resources Office and the Division of Historic Preservation and Archaeology will be notified immediately.

INDOT Cultural Resources staff reviewer(s): Clint Kelly and David Moffatt

****Be sure to attach this form to the National Environmental Policy Act documentation for this project. Also, the NEPA documentation shall reference and include the description of the specific stipulation in the PA that qualifies the project as exempt from further Section 106 review.*

Appendix E

Red Flag and Hazardous Materials



INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue
Room N642
Indianapolis, Indiana 46204

PHONE: (317) 232-5113
FAX: (317) 233-4929

Eric Holcomb, Governor
Joe McGuinness,
Commissioner

Date: April 27, 2021

To: Site Assessment & Management
Environmental Policy Office - Environmental Services Division
Indiana Department of Transportation
100 N Senate Avenue, Room N642
Indianapolis, IN 46204

From: Mindy Baker
INDOT – Seymour District
185 Agrico Lane
Seymour, Indiana 47274
mbaker2@indot.in.gov

Re: RED FLAG INVESTIGATION
DES # 1800371, State Project
Intersection Improvement with Added Turn Lanes
SR 37 at the Intersection of Dillman Road in Bloomington
Monroe County, Indiana

PROJECT DESCRIPTION

Brief Description of Project:

The project will create J-turn lanes on SR 37 at Dillman Road in Bloomington. SR 37 runs north to south in the project area, and Dillman Road runs east to west. Crashes at this intersection are primarily related to vehicles leaving Dillman Road and attempting to cross or turn left onto SR 37. The J-turns would allow traffic to continue to free flow while improving safety at the intersection.

The project has a length of approximately 2500 feet, and 200 feet of widening will occur at the north and southbound project extents to allow for larger trucks to complete the J-turn. Existing drainage within the project area is primarily maintained through an open drainage system on either side and in the median of SR 37. There is a small cross culvert that runs underneath Dillman Road just west of the intersection. This culvert carries drainage from the roadway ditch running alongside SR 37. No work is proposed for this culvert. Two additional pipes run horizontally beneath southbound SR 37 to drain the median. One pipe is located approximately 150 feet south of the intersection and the other is located 100 feet north of the intersection. The grate coverings on both inlets will be removed and replaced with inlets having ninety degree turns.

A 9' x 7' pipe arch (CV 037-053-095.17) culvert runs from the southeast quadrant of the intersection to a point approximately 200' northwest of the intersection. This culvert drains runoff from properties to the southeast. INDOT has noted some scour at the outlet of this culvert. An aluminum apron and riprap will be added at the outlet of the 9' x 7' pipe arch in the northwest quadrant. Trees will be removed from the area of the large culvert outlet to allow placement of the apron and riprap, and new underdrains will be installed areas of pavement work. Utility relocations are not anticipated. No signal installation or pedestrian crossings will be installed.

Bridge and/or Culvert Project: Yes No Structure # _____

If this is a bridge project, is the bridge Historical? Yes No , Select Non-Select

(Note: If the project involves a historical bridge, please include the bridge information in the Recommendations Section of the report).

Proposed right of way: Temporary # Acres _____ Permanent # Acres _____, Not Applicable

Type of excavation: Maximum excavation depth of 3 to 4 feet

Maintenance of traffic: Traffic will be appropriately maintained with arrow boards and lane closures.

Work in waterway: Yes No Below ordinary high water mark: Yes No

State Project: LPA:

Any other factors influencing recommendations:

INFRASTRUCTURE TABLE AND SUMMARY

| Infrastructure | | | |
|--|-----|-------------------------|-----|
| Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A: | | | |
| Religious Facilities | N/A | Recreational Facilities | N/A |
| Airports ¹ | N/A | Pipelines | 3 |
| Cemeteries | N/A | Railroads | 1 |
| Hospitals | N/A | Trails | 2 |
| Schools | N/A | Managed Lands | N/A |

¹In order to complete the required airport review, a review of public-use airports within 3.8 miles (20,000 feet) is required.

Explanation:

Pipelines: Three (3) pipeline segments are located within 0.5 mile search radius. The nearest pipeline is located beneath the southern extent of the project area. Coordination with INDOT utilities and railroads will occur.

Railroads: One (1) railroad segment is located within the 0.5 mile search radius, 0.15 mile north of the project area. No impact is expected.

Trails: Two (2) trails are located within the 0.5 mile search radius, 0.4 mile northwest of the project area. No Impact is expected.

WATER RESOURCES TABLE AND SUMMARY

| Water Resources | | | |
|--|------------|-------------------------|------------|
| Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A: | | | |
| NWI - Points | 2 | Canal Routes - Historic | N/A |
| Karst Springs | N/A | NWI - Wetlands | 11 |
| Canal Structures – Historic | N/A | Lakes | 11 |
| NPS NRI Listed | N/A | Floodplain - DFIRM | 4 |
| NWI-Lines | 4 | Cave Entrance Density | N/A |
| IDEM 303d Listed Streams and Lakes (Impaired) | 3 | Sinkhole Areas | N/A |
| Rivers and Streams | 13 | Sinking-Stream Basins | N/A |

Explanation:

NWI – Points: Two (2) NWI – Points are located within the 0.5 mile search radius. The nearest is located 0.32 east of the project area. No impacts are expected.

NWI-Lines: Eleven (11) NWI-Lines are located within the 0.5 mile search radius. The nearest is located 0.08 north of the project area. No impacts are expected.

IDEM 303d Listed Streams and Lakes (Impaired): Three (3) IDEM 303d Listed Streams and Lakes (Impaired) are located within the 0.5 mile search radius. The nearest impaired stream, an unnamed tributary (UNT) to Clear Creek, runs through the culvert (CV 037-053-095.17) in the center of the project area and is listed as impaired for polychlorinated biphenyls (PCBs). An aluminum apron and riprap will be added at the outlet of the culvert in the northwest quadrant. Exposure to PCBs in fish tissue is considered low, assuming workers are not eating biota surrounding or associated with the water body. Workers will be informed. If there will be sediment and/or soils disturbed by construction, additional investigation may be necessary. Coordination with INDOT ESD Site Assessment & Management (SAM) will occur.

Rivers and Streams: Thirteen (13) rivers and streams are located within the 0.5 mile search radius. The nearest is an intermittent stream that runs through a culvert at the center of the project area near the intersection of Dillman Road and SR 37. An aluminum apron and riprap will be added at the outlet of the culvert in the northwest quadrant. A Waters of the US Report will be prepared and coordination with INDOT ESD Ecology and Waterway Permitting will occur.

NWI – Wetlands: Eleven (11) NWI – Wetlands are located within the 0.5 mile search radius. The nearest is riverine wetland that runs through the center of the project area near the intersection of Dillman Road and SR 37. A Waters of the US Report will be prepared and coordination with INDOT ESD Ecology and Waterway Permitting will occur.

Lakes: Eleven (11) lakes are located within the 0.5 mile search radius. The nearest lake is located 0.07 mile west of the project area at the wastewater treatment plant. No impacts are expected.

Floodplain – DFIRM: Four (4) floodplain polygons are located within the 0.5 mile search radius. The nearest floodplain is located 0.06 mile north of the project area. No impact is expected.

MINING AND MINERAL EXPLORATION TABLE AND SUMMARY

| | | | |
|--|------------|---------------------|------------|
| Mining/Mineral Exploration | | | |
| Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A: | | | |
| Petroleum Wells | N/A | Mineral Resources | 1 |
| Mines – Surface | N/A | Mines – Underground | N/A |

Explanation:

Mineral Resources: One (1) stone quarry is located within the 0.5 mile search radius. The site is located approximately 0.45 mile southwest of the project area. No impact is expected.

HAZARDOUS MATERIAL CONCERNS TABLE AND SUMMARY

| | | | |
|--|------------|-----------------------------------|------------|
| Hazardous Material Concerns | | | |
| Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A: | | | |
| Superfund | N/A | Manufactured Gas Plant Sites | N/A |
| RCRA Generator/ TSD | 1 | Open Dump Waste Sites | N/A |
| RCRA Corrective Action Sites | N/A | Restricted Waste Sites | N/A |
| State Cleanup Sites | N/A | Waste Transfer Stations | 1 |
| Septage Waste Sites | N/A | Tire Waste Sites | N/A |
| Underground Storage Tank (UST) Sites | N/A | Confined Feeding Operations (CFO) | N/A |
| Voluntary Remediation Program | 1 | Brownfields | 2 |
| Construction Demolition Waste | N/A | Institutional Controls | 1 |
| Solid Waste Landfill | 1 | NPDES Facilities | 6 |
| Infectious/Medical Waste Sites | N/A | NPDES Pipe Locations | 9 |
| Leaking Underground Storage (LUST) Sites | 3 | Notice of Contamination Sites | N/A |

Unless otherwise noted, site specific details presented in this section were obtained from documents reviewed on the Indiana Department of Environmental Management (IDEM) Virtual File Cabinet (VFC).

Explanation:

RCRA Generator/TSD: One (1) RCRA Generator/TSD is mapped in the 0.5 mile search radius; however, the icon is not mapped correctly and the site is located 0.75 mile east of SR 37. No impact is expected.

Voluntary Remediation Program: One (1) VRP site, Reclamation Contractors of Indiana (Agency ID 40185, 6560 S. Old SR 37, Bloomington), is located 0.25-mile northeast of the intersection. A Covenant Not to Sue letter was issued for the site in 2003. Impacts to the project area are not expected. Also see Brownfields and Institutional Control information below.

Solid Waste Landfill: One (1) landfill site is located within 0.5 mile of the project area. The Dillman Road Wastewater Treatment Plant (Agency ID 11892, Dillman Road) on the northwest corner of the intersection but it appears as though the landfill boundaries associated with the Dillman Road Plant are located 0.3-mile northwest of the intersection. Semi-annual groundwater monitoring conducted in July 2020 did not indicate evidence of a groundwater release. Impacts to the project area are not expected.

LUST: Three (3) LUST sites are located within a 0.5-mile radius of the project area. The nearest site is located in the vicinity of the intersection. B&B Investments Inc. (also known as Stone Belt Freight Lines, Agency ID 47258, 101 West Dillman Road, Bloomington) is located adjacent to the project area on the southwest corner of the intersection. IDEM issued a No Further Action letter, dated July 13, 1999. No impact is expected.

Waste Transfer Station: One (1) waste transfer station, Hoosier Disposal & Recycling (Agency ID 12695), is located 0.4 mile southwest of the intersection. No violations were observed during an October 2020 inspection. Impacts to the project area are not expected.

Brownfields: Two (2) Brownfields sites are located within a 0.5-mile radius of the project area. The nearest Brownfields site, Reclamation Contractors of Indiana (Agency ID 40185, 6560 Old SR 37, Bloomington), is located 0.25-mile northeast of the intersection. This site appears to be incorrectly mapped in GIS. The site was referred to the VRP in 1999, and subsequently issued a closure letter in 2003. Brownfields also issued a certificate of completion in 2002. No impact is expected. Also see VRP information above and Institutional Controls information below.

Institutional Controls (IC): One (1) IC, Reclamation Contractors of Indiana (Agency ID 40185, 6560 Old SR 37, Bloomington) is located 0.25-mile northeast of the intersection. No impact is expected.

NPDES Facilities: Six (6) NPDES facilities are located within a 0.5-mile radius of the project area. The nearest facility, Bloomington S. Dillman Road, is located in the vicinity of the intersection; however, the permit expired in December of 2020. No impact is expected.

NPDES Pipe Locations: Nine (9) NPDES pipes are located within a 0.5-mile radius of the project area. The nearest pipe is located 0.16 mile west of the intersection and is associated with the Dillman Road Wastewater Treatment Plant. Impacts to the project area are not expected.

ECOLOGICAL INFORMATION SUMMARY

The Monroe County listing of the Indiana Natural Heritage Data Center information on endangered, threatened, or rare (ETR) species and high quality natural communities is attached with ETR species highlighted. A preliminary review of the Indiana Natural Heritage Database by INDOT Environmental Service did not indicate the presence of ETR species within the 0.5 mile search radius.

Due to the nature of project activities, this project will fall under the guidelines set forth under USFWS Interim Policy for the Review of Highway Transportation Projects in Indiana dated May 29, 2013. No further coordination is necessary.

A review of the USFWS database did not indicate the presence of endangered bat species in or within 0.5 mile of the project area. The range-wide programmatic consultation for the Indiana Bat and Northern Long-eared Bat will be completed according to the most recent "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects".

RECOMMENDATIONS SECTION

Include recommendations from each section. If there are no recommendations, please indicate N/A:

INFRASTRUCTURE: N/A

WATER RESOURCES: The presence of the following water resources will require the preparation of a Waters of the US Report and coordination with INDOT ES Ecology and Waterway Permitting:

- A UNT to Clear Creek is located within the project area.
- An NWI-line, a UNT to Clear Creek, is located within the project area.

IDEM 303d Listed Streams and Lakes: The UNT to Clear Creek flows through the project area and is listed as impaired for PCBs in fish tissue. Exposure to PCBs in fish tissue is considered low, assuming workers are not eating biota surrounding or associated with the water body. Workers will be informed. If there will be sediment and/or soils disturbed by construction, additional investigation may be necessary. Coordination with INDOT ESD Site Assessment & Management (SAM) will occur.

MINING/MINERAL EXPLORATION: N/A

HAZARDOUS MATERIAL CONCERNS: N/A

ECOLOGICAL INFORMATION: Coordination with Indiana Department of Natural Resources is necessary. The range-wide programmatic consultation for the Indiana Bat and Northern Long-eared Bat will be completed according to the most recent "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects".

INDOT Environmental Services concurrence: Nicole Fohey-Breting Digitally signed by Nicole Fohey-Breting
 Date: 2021.06.16 15:38:02 -04'00' (Signature)

Prepared by:
Mindy Baker
Environmental Manager 2
INDOT – Seymour District

Graphics:

A map for each report section with a 0.5 mile search radius buffer around all project area(s) showing all items identified as possible items of concern is attached. If there is not a section map included, please change the YES to N/A:

SITE LOCATION: YES

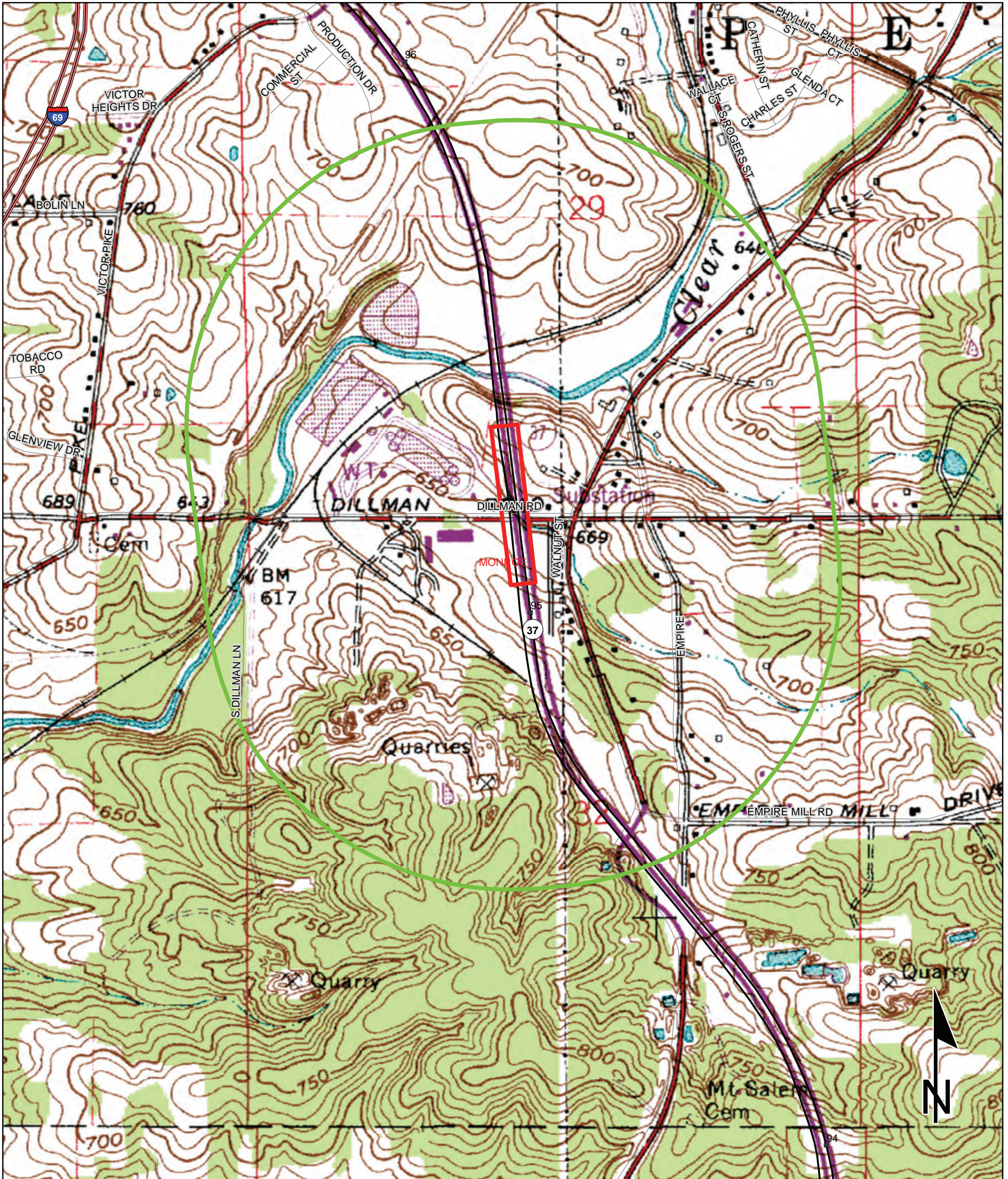
INFRASTRUCTURE: YES

WATER RESOURCES: YES

MINING/MINERAL EXPLORATION: YES

HAZARDOUS MATERIAL CONCERNS: YES

Red Flag Investigation - Site Location
 SR 37 at Intersection of Dillman Road in Bloomington
 Des. No. 1800371, Intersection Improvement - Added Turn Lanes
 Monroe County, Indiana



Sources: 0.2 0.1 0 0.2 Miles
Non Orthophotography
 Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
 Map Projection: UTM Zone 16 N Map Datum: NAD83
 This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

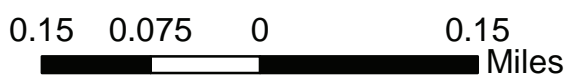
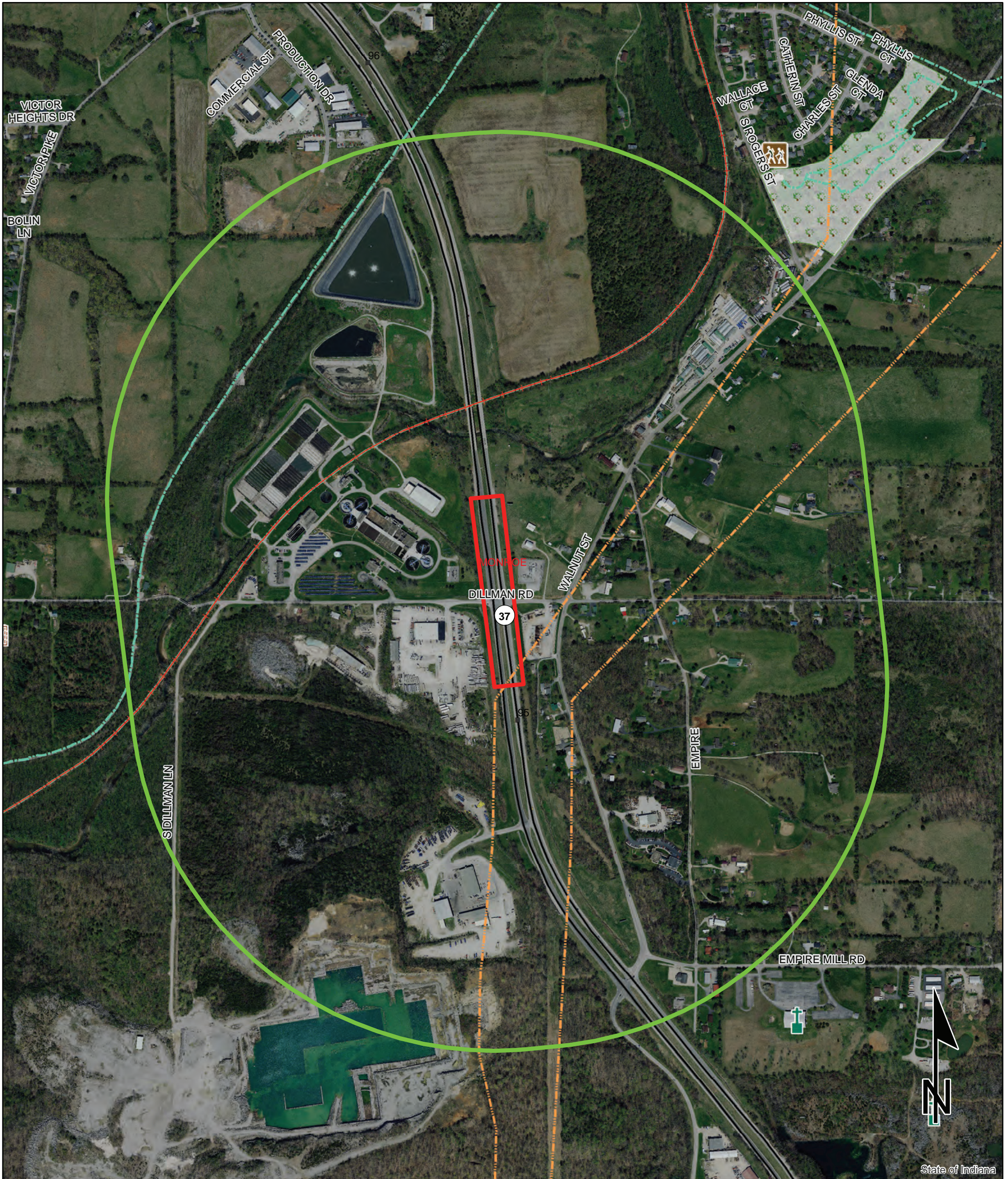
**CLEAR CREEK QUADRANGLE
 INDIANA
 7.5 MINUTE SERIES
 (TOPOGRAPHIC)**

Red Flag Investigation - Infrastructure

SR 37 at Intersection of Dillman Road in Bloomington

Des. No. 1800371, Intersection Improvement - Added Turn Lanes

Monroe County, Indiana



Sources:
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

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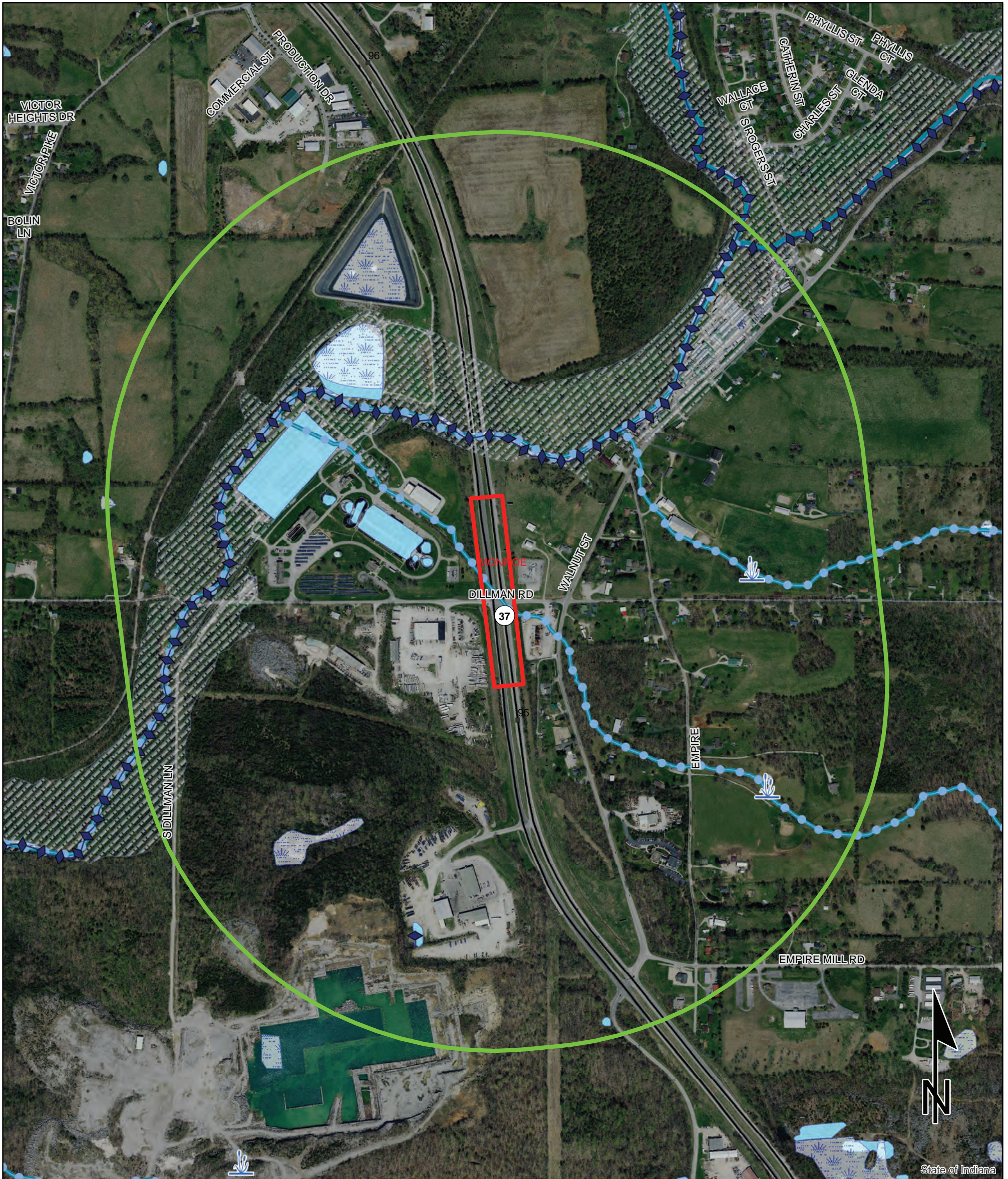
| | | | | | |
|--|--------------------|--|---------------------|--|------------------|
| | Religious Facility | | Recreation Facility | | Project Area |
| | Airport | | Pipeline | | Half Mile Radius |
| | Cemeteries | | Railroad | | Toll |
| | Hospital | | Trails | | Interstate |
| | School | | Managed Lands | | State Route |
| | | | County Boundary | | US Route |
| | | | | | Local Road |

Red Flag Investigation - Water Resources

SR 37 at Intersection of Dillman Road in Bloomington

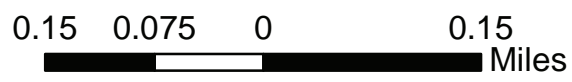
Des. No. 1800371, Intersection Improvement - Added Turn Lanes

Monroe County, Indiana



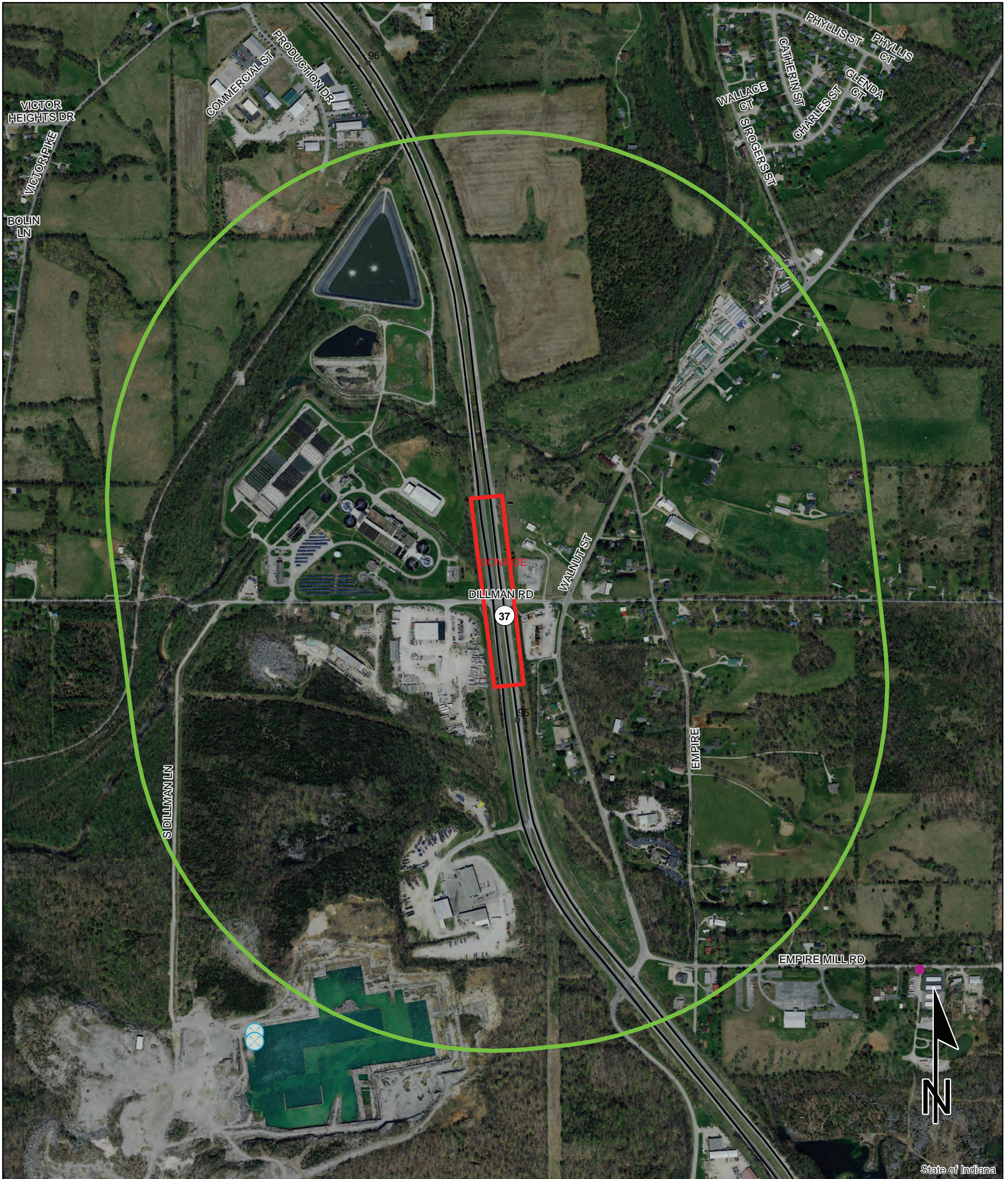
Sources:
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

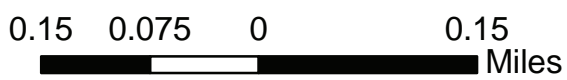


| | | |
|----------------------------|-----------------------|------------------|
| NWI - Point | Wetlands | Project Area |
| Karst Spring | Lake | Half Mile Radius |
| NWI - Line | Floodplain - DFIRM | Toll |
| Impaired_Stream_Lake | Cave Entrance Density | Interstate |
| NPS NRI listed | Sinkhole Area | State Route |
| River | Sinking-Stream Basin | US Route |
| Canal Structure - Historic | County Boundary | Local Road |
| Canal Route - Historic | | |

Red Flag Investigation - Mining and Mineral Resources SR 37 at Intersection of Dillman Road in Bloomington Des. No. 1800371, Intersection Improvement - Added Turn Lanes Monroe County, Indiana



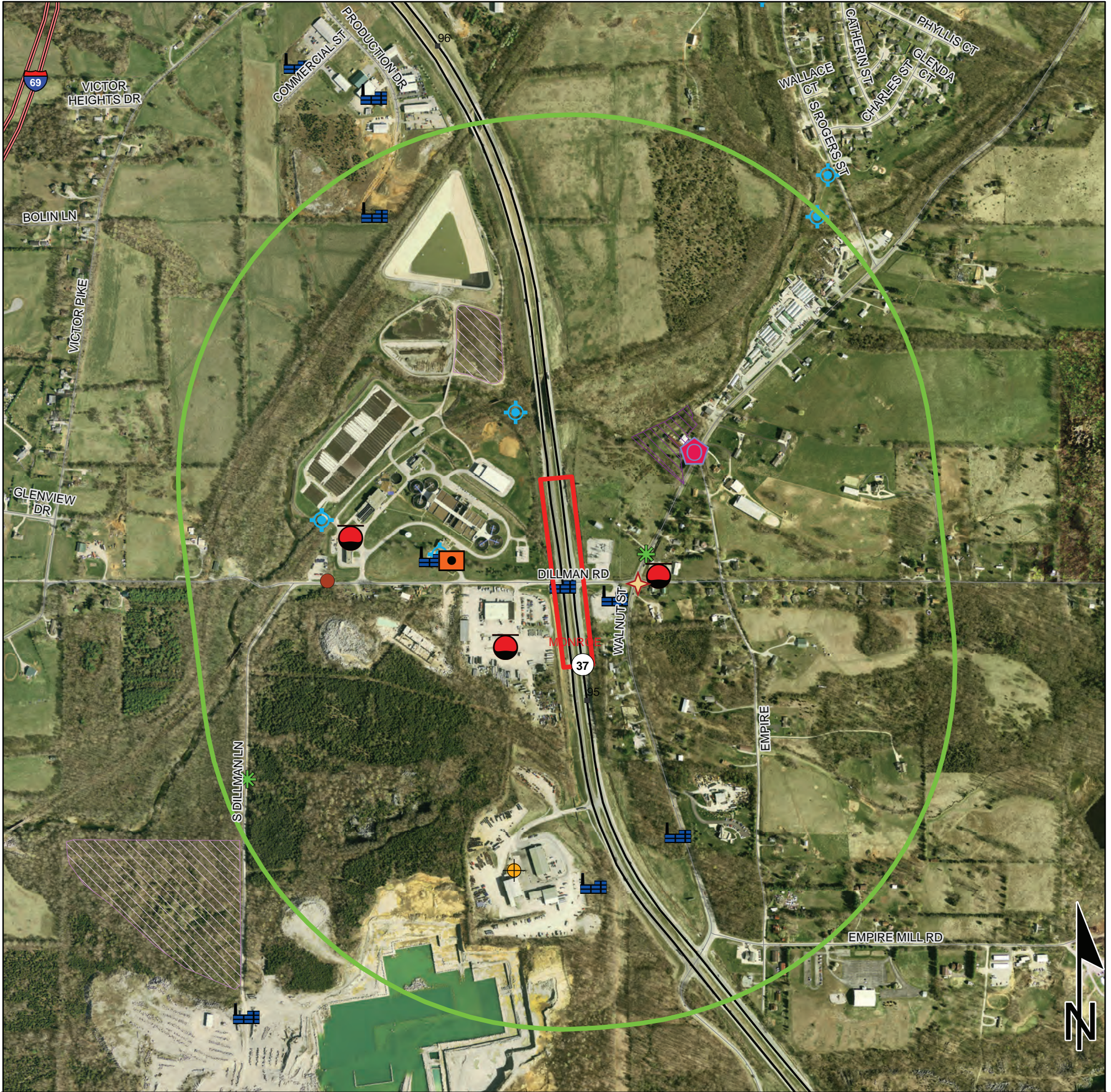
State of Indiana



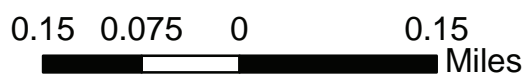
Sources:
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
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| | | |
|--------------------|------------------|-------------|
| Oil and Gas Wells | County Boundary | Toll |
| Mineral Resources | Project Area | Interstate |
| Mine - Surface | Half Mile Radius | State Route |
| Mine - Underground | | US Route |
| | | Local Road |

Red Flag Investigation - Hazardous Material Concerns SR 37 at Intersection of Dillman Road in Bloomington Des. No. 1800371, Intersection Improvement - Added Turn Lanes Monroe County, Indiana



| | | | | | |
|--|----------------------------------|--|-------------------------------|--|------------------------|
| | Brownfield | | RCRA Generator/TSD | | Institutional Controls |
| | RCRA Corrective Action Sites | | Restricted Waste Site | | County Boundary |
| | Confined Feeding Operation | | Septage Waste Site | | Project Area |
| | Notice_Of_Contamination | | Solid Waste Landfill | | Half Mile Radius |
| | Construction/Demolition Site | | State Cleanup Site | | Toll |
| | Infectious/Medical Waste Site | | Superfund | | Interstate |
| | Leaking Underground Storage Tank | | Tire Waste Site | | State Route |
| | Manufactured Gas Plant | | Underground Storage Tank | | US Route |
| | NPDES Facilites | | Voluntary Remediation Program | | Local Road |
| | NPDES Pipe Locations | | Waste Transfer Station | | |
| | Open Dump Waste Site | | | | |



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Indiana County Endangered, Threatened and Rare Species List

County: Monroe



| Species Name | Common Name | FED | STATE | GRANK | SRANK |
|---|--------------------------------|-----|-------|----------|-------|
| Insect: Plecoptera (Stoneflies) | | | | | |
| <i>Paracapnia angulata</i> | Angulate Snowfly | | SE | G5 | S1 |
| Diplopoda | | | | | |
| <i>Conotyia bollmani</i> | Bollman's Cave Milliped | | WL | G5 | S3 |
| Crustacean: Malacostraca | | | | | |
| <i>Caecidotea jordani</i> | Jordan's groundwater isopod | | SE | G2G3 | S1 |
| <i>Crangonyx indianensis</i> | Indiana Cave Amphipod | | WL | G3 | S3 |
| <i>Crangonyx packardi</i> | Packard's Cave Amphipod | | WL | G4 | S3 |
| <i>Orconectes inermis testii</i> | Troglobitic Crayfish | | SR | G5T3 | S3 |
| Crustacean: Ostracoda | | | | | |
| <i>Pseudocandona jeanneli</i> | Jeannel's Cave Ostracod | | SE | G2 | S1 |
| <i>Sagittocythere barri</i> | Barr's Commensal Cave Ostracod | | WL | G5 | S3S4 |
| Mollusk: Bivalvia (Mussels) | | | | | |
| <i>Cyprogenia stegaria</i> | Eastern Fanshell Pearlymussel | LE | SE | G1Q | S1 |
| <i>Epioblasma torulosa</i> | Tubercled Blossom | LE | SX | GX | SX |
| <i>Fusconaia subrotunda</i> | Longsolid | C | SX | G3 | SX |
| <i>Obovaria subrotunda</i> | Round Hickorynut | C | SE | G4 | S1 |
| <i>Pleurobema clava</i> | Clubshell | LE | SE | G1G2 | S1 |
| <i>Theliderma cylindrica</i> | Rabbitsfoot | LT | SE | G3G4 | S1 |
| <i>Villosa lienosa</i> | Little Spectaclecase | | SSC | G5 | S3 |
| Mollusk: Gastropoda | | | | | |
| <i>Fontigens cryptica</i> | Hidden Springs Snail | | SE | G1 | S1 |
| <i>Punctum minutissimum</i> | Small Spot | | | G5 | S2 |
| Ellipluran: Collembola | | | | | |
| <i>Hypogastrura gibbosus</i> | Humped Springtail | | WL | GNR | SNR |
| <i>Isotoma anglicana</i> | A Springtail | | WL | GNR | SNR |
| <i>Pseudosinella argentea</i> | A Springtail | | SE | GNR | S1 |
| <i>Pseudosinella collina</i> | Hilly Springtail | | SR | GNR | S2? |
| <i>Pseudosinella fonsa</i> | Fountain Cave Springtail | | ST | G3G4 | S2 |
| <i>Sinella alata</i> | Springtail | | WL | G5 | S4 |
| Insect: Coleoptera (Beetles) | | | | | |
| <i>Aleochara lucifuga</i> | Rove beetle | | WL | GNR | S4 |
| <i>Atheta annexa</i> | Rove beetle | | WL | G5 | S4 |
| <i>Dynastes tityus</i> | Unicorn Beetle | | SR | GNR | S2 |
| <i>Nicrophorus americanus</i> | American Burying Beetle | LE | SX | G3 | SX |
| <i>Photuris walldoxeyi</i> | Cypress firefly | | WL | GNR | SU |
| <i>Pseudanopthalmus shilohensis mayfieldensis</i> | Monroe cave ground beetle | | SE | G1G2T1T2 | S1S2 |
| <i>Pseudanopthalmus tenuis</i> | Cave Beetle | | WL | G4 | S4 |

Insect: Hymenoptera

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Indiana County Endangered, Threatened and Rare Species List

County: Monroe



| Species Name | Common Name | FED | STATE | GRANK | SRANK |
|--|--------------------------------|-----|-------|-------|-------|
| <i>Andrena heraclei</i> | | | ST | GNR | S2 |
| Insect: Lepidoptera (Butterflies & Moths) | | | | | |
| <i>Celastrina nigra</i> | Dusky Azure | | SE | G4 | S1 |
| <i>Pieris virginiensis</i> | West Virginia white | | ST | G3? | S3 |
| Insect: Odonata (Dragonflies & Damselflies) | | | | | |
| <i>Rhionaeschna mutata</i> | Spatterdock Darner | | ST | G4 | S2S3 |
| <i>Tachopteryx thoreyi</i> | Gray Petaltail | | WL | G4 | S3 |
| Insect: Tricoptera (Caddisflies) | | | | | |
| <i>Agapetus gelbae</i> | An Agapetus Caddisfly | | ST | G3 | S2 |
| <i>Diplectrona metaqui</i> | A Diplectronan Caddisfly | | ST | G4G5 | S2 |
| <i>Goera stylata</i> | A Northern Casemaker Caddisfly | | SE | G5 | S1 |
| <i>Homoplectra doringa</i> | A Homoplectran Caddisfly | | SE | G5 | S1 |
| Arachnida | | | | | |
| <i>Dolomedes scriptus</i> | Lined Nursery Web Spider | | | G5 | S1? |
| <i>Nesticus carteri</i> | Carter's Cave Spider | | | GNR | S1 |
| Amphibian | | | | | |
| <i>Acris blanchardi</i> | Blanchard's Cricket Frog | | SSC | G5 | S4 |
| <i>Hemidactylium scutatum</i> | Four-toed Salamander | | SSC | G5 | S2 |
| <i>Lithobates areolatus circulosus</i> | Northern Crawfish Frog | | SE | G4T4 | S2 |
| <i>Necturus maculosus</i> | Common mudpuppy | | SSC | G5 | S2 |
| Reptile | | | | | |
| <i>Clonophis kirtlandii</i> | Kirtland's Snake | | SE | G2 | S2 |
| <i>Crotalus horridus</i> | Timber Rattlesnake | | SE | G4 | S2 |
| <i>Opheodrys aestivus</i> | Rough Green Snake | | SSC | G5 | S3 |
| <i>Terrapene carolina carolina</i> | Eastern Box Turtle | | SSC | G5T5 | S3 |
| <i>Thamnophis proximus proximus</i> | Western Ribbon Snake | | SSC | G5T5 | S3 |
| Bird | | | | | |
| <i>Accipiter striatus</i> | Sharp-shinned Hawk | | SSC | G5 | S2B |
| <i>Aimophila aestivalis</i> | Bachman's Sparrow | | | G3 | SXB |
| <i>Ardea alba</i> | Great Egret | | SSC | G5 | S1B |
| <i>Bartramia longicauda</i> | Upland Sandpiper | | SE | G5 | S3B |
| <i>Buteo platypterus</i> | Broad-winged Hawk | | SSC | G5 | S3B |
| <i>Dendroica virens</i> | Black-throated Green Warbler | | | G5 | S2B |
| <i>Haliaeetus leucocephalus</i> | Bald Eagle | | SSC | G5 | S2 |
| <i>Helmitheros vermivorus</i> | Worm-eating Warbler | | SSC | G5 | S3B |
| <i>Ixobrychus exilis</i> | Least Bittern | | SE | G4G5 | S3B |
| <i>Mniotilta varia</i> | Black-and-white Warbler | | SSC | G5 | S1S2B |
| <i>Setophaga cerulea</i> | Cerulean Warbler | | SE | G4 | S3B |
| <i>Setophaga citrina</i> | Hooded Warbler | | SSC | G5 | S3B |

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Indiana County Endangered, Threatened and Rare Species List

County: Monroe



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| <i>Vermivora chrysoptera</i> | Golden-winged Warbler | C | SE | G4 | S1B |
| Mammal | | | | | |
| <i>Lasiurus borealis</i> | Eastern Red Bat | | SSC | G3G4 | S4 |
| <i>Lasiurus cinereus</i> | Hoary Bat | | SSC | G3G4 | S4 |
| <i>Mustela nivalis</i> | Least Weasel | | SSC | G5 | S2? |
| <i>Myotis lucifugus</i> | Little Brown Bat | C | SE | G3 | S2 |
| <i>Myotis septentrionalis</i> | Northern Long Eared Bat | LT | SE | G1G2 | S2S3 |
| <i>Myotis sodalis</i> | Indiana Bat | LE | SE | G2 | S1 |
| <i>Neotoma magister</i> | Allegheny Woodrat | | SE | G3G4 | S2 |
| <i>Perimyotis subflavus</i> | Tricolored Bat | | SE | G2G3 | S2S3 |
| <i>Sorex fumeus</i> | Smoky Shrew | | SSC | G5 | S2 |
| <i>Sorex hoyi</i> | Pygmy Shrew | | SSC | G5 | S2 |
| <i>Taxidea taxus</i> | American Badger | | SSC | G5 | S2 |
| Vascular Plant | | | | | |
| <i>Acalypha deamii</i> | Deam's two-seeded mercury | | WL | G4? | S3 |
| <i>Carex timida</i> | timid sedge | | SE | G2G4 | S1 |
| <i>Castanea dentata</i> | American chestnut | | SE | G4 | S1 |
| <i>Catalpa speciosa</i> | northern catalpa | | ST | G4? | S3 |
| <i>Chamaecrista nictitans var. nictitans</i> | wild sensitive plant | | WL | G5T5 | S3 |
| <i>Chimaphila maculata</i> | spotted wintergreen | | WL | G5 | S3 |
| <i>Cypripedium parviflorum var. pubescens</i> | large yellow lady's-slipper | | WL | G5T5 | S3 |
| <i>Epigaea repens</i> | trailing arbutus | | ST | G5 | S3 |
| <i>Hydrastis canadensis</i> | golden seal | | WL | G3G4 | S3 |
| <i>Juglans cinerea</i> | butternut | | ST | G3 | S2 |
| <i>Linum striatum</i> | ridged yellow flax | | WL | G5 | S3 |
| <i>Liparis loeselii</i> | Loesel's twayblade | | WL | G5 | S3 |
| <i>Lithospermum incisum</i> | narrow-leaved puccoon | | SE | G5 | S1 |
| <i>Malaxis unifolia</i> | green adder's-mouth orchid | | SE | G5 | S1 |
| <i>Oxalis illinoensis</i> | Illinois woodsorrel | | WL | G4Q | S3 |
| <i>Panax quinquefolius</i> | American ginseng | | WL | G3G4 | S3 |
| <i>Patis racemosa</i> | black-fruit mountain-ricegrass | | ST | G5 | S3 |
| <i>Platanthera flava var. herbiola</i> | pale green orchid | | WL | G4?T4Q | S3 |
| <i>Potamogeton pusillus</i> | slender pondweed | | WL | G5 | S2 |
| <i>Rorippa aquatica</i> | lake cress | | SE | G4? | S1 |
| <i>Synandra hispidula</i> | Gyandotte beauty | | WL | G4 | S3 |
| <i>Tsuga canadensis</i> | eastern hemlock | | WL | G5 | S3 |
| <i>Zizia aptera</i> | golden alexanders | | WL | G5 | S3 |
| High Quality Natural Community | | | | | |
| Forest - floodplain mesic | Mesic Floodplain Forest | | SG | G3? | S1 |
| Forest - upland dry Highland Rim | Highland Rim Dry Upland Forest | | SG | GNR | S3 |

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Indiana County Endangered, Threatened and Rare Species List

County: Monroe



| Species Name | Common Name | FED | STATE | GRANK | SRANK |
|---|--------------------------------------|-----|-------|-------|-------|
| <i>Forest - upland dry-mesic Highland Rim</i> | Highland Rim Dry-mesic Upland Forest | | SG | GNR | S3 |
| <i>Forest - upland mesic Highland Rim</i> | Highland Rim Mesic Upland Forest | | SG | GNR | S3 |
| <i>Primary - cave aquatic</i> | Aquatic Cave | | SG | GNR | SNR |
| <i>Primary - cliff limestone</i> | Limestone Cliff | | SG | GU | S1 |
| Other Significant Feature | | | | | |
| <i>Geomorphic - Nonglacial Erosional Feature - Water Fall and Cascade</i> | Water Fall and Cascade | | | GNR | SNR |

Indiana Natural Heritage Data Center
Division of Nature Preserves
Indiana Department of Natural Resources
This data is not the result of comprehensive county surveys.

Fed: LE = Endangered; LT = Threatened; C = candidate; PDL = proposed for delisting
 State: SE = state endangered; ST = state threatened; SR = state rare; SSC = state species of special concern; SX = state extirpated; SG = state significant; WL = watch list
 GRANK: Global Heritage Rank: G1 = critically imperiled globally; G2 = imperiled globally; G3 = rare or uncommon globally; G4 = widespread and abundant globally but with long-term concerns; G5 = widespread and abundant globally; G? = unranked; GX = extinct; Q = uncertain rank; T = taxonomic subunit rank
 SRANK: State Heritage Rank: S1 = critically imperiled in state; S2 = imperiled in state; S3 = rare or uncommon in state; G4 = widespread and abundant in state but with long-term concern; SG = state significant; SH = historical in state; SX = state extirpated; B = breeding status; S? = unranked; SNR = unranked; SNA = nonbreeding status unranked

Appendix F

Water Resources



February 2, 2022

Wetlands

- | | | |
|--------------------------------|-----------------------------------|----------|
| Estuarine and Marine Deepwater | Freshwater Emergent Wetland | Lake |
| Estuarine and Marine Wetland | Freshwater Forested/Shrub Wetland | Other |
| | Freshwater Pond | Riverine |

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



Indiana Floodplain Information Portal Report

Point of Interest

Approximate Address:

96 W Dillman Rd
BLOOMINGTON, IN 47403

Effective Flood Zone:

X

Preliminary Flood Zone:

N/A

Best Available Flood Zone:

X

Approximate Flood Elevation:

631.9ft NAVD88

Source:

Zone AE Profile Delineation

Nearest Stream:

CLEAR CREEK

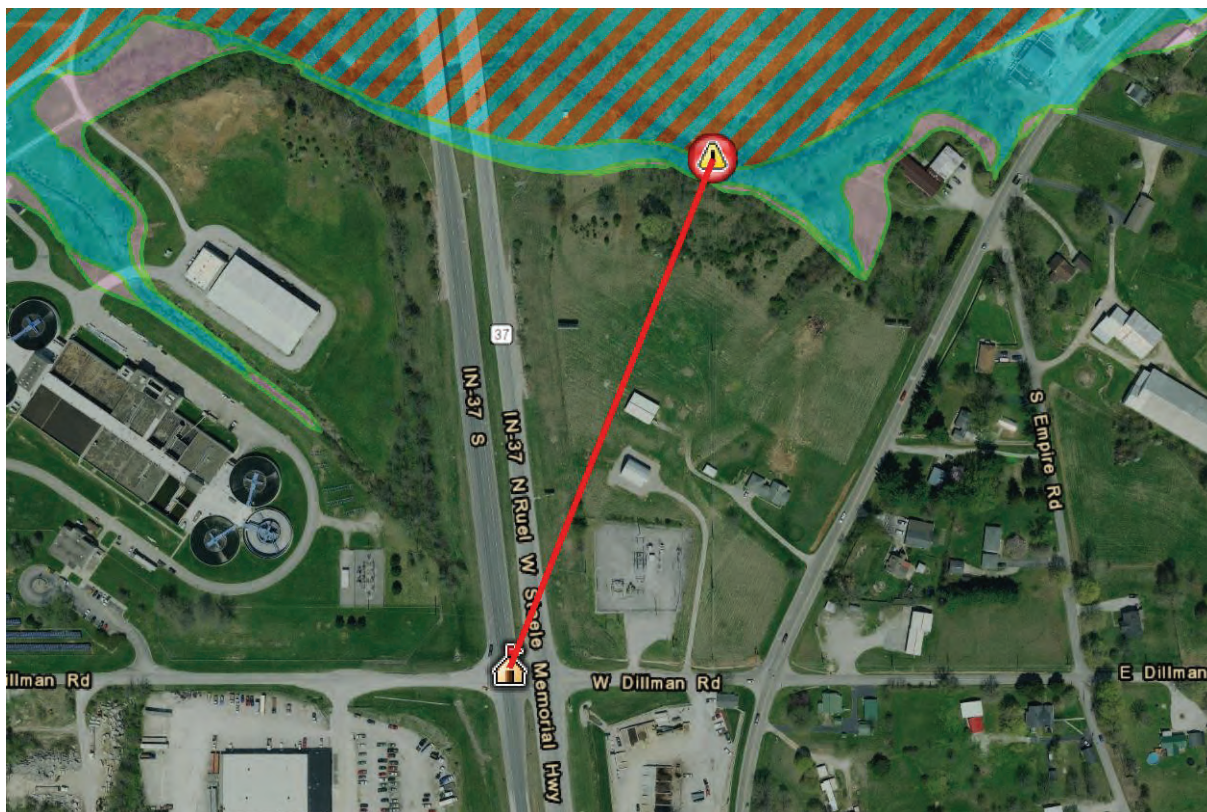
Map Legend

- Point of Interest
- Nearest Point on Stream

Best Available Flood Zone

- FEMA Zone AE Floodway
- DNR Detailed Floodway
- DNR Approximate Floodway
- FEMA Zone A
- FEMA Zone AE
- DNR Detailed Fringe
- DNR Approximate Fringe
- Additional Floodplain Area
- FEMA Protected by Levee
- FEMA Floodplain - Ponding (Depth)
- FEMA Floodplain - Sheet Flow (Depth)

Site Map with Best Available Flood Zone



Approximate scale 1:6,000

Disclaimer

Generated on Tuesday November 30th 2021 at 03:04:14pm

The data shown on this map represents FEMA floodplain data enhanced with additional studies that have been reviewed and approved by the Division of Water. While this data has not yet been submitted to FEMA for inclusion in the Flood Insurance Rate

Appendix G

Air Quality



INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue
Room N758-Executive Office
Indianapolis, Indiana 46204

PHONE: (855) 463-6848

Eric Holcomb, Governor
Michael Smith, Commissioner

April 26, 2022

Mr. Jermaine R. Hannon, Division Administrator
FHWA Indiana Division
575 North Pennsylvania St., Room 254
Indianapolis, IN 46204

Ms. Kelley Brookins, Regional Administrator
FTA Region 5
200 West Adams St.
Suite 320
Chicago, IL 60606-5253

Dear Mr. Hannon /Ms. Brookins:

The Indiana Department of Transportation is pleased to submit its Draft FY 2022-2026 Statewide Transportation Improvement Program (STIP) for review and comment by your offices.

Included in the final submitted document is a listing of the state's expansion/preservation and local small urban and rural and rural transit projects. The following Metropolitan Planning Organization TIP's will be included in the FY 2022-2026 STIP by reference, pending FHWA approval in May 2022.

| | |
|--|--------------|
| Area Plan Commission of Tippecanoe County (APCTC) | FY 2022-2026 |
| • <i>Version 3/10/2022</i> | |
| Bloomington-Monroe County Metropolitan Planning Organization (BMCMPPO) | FY 2022-2026 |
| • <i>Version 3/11/2022</i> | |
| Columbus Area Metropolitan Planning Organization (CAMPO) | FY 2022-2026 |
| • <i>Version 3/22/2021</i> | |
| Delaware-Muncie Metropolitan Plan Commission (DMMPC) | FY 2022-2025 |
| • <i>Version 12/15/2021</i> | |
| Evansville Metropolitan Planning Organization (EMPO) | FY 2022-2026 |
| • <i>Version 3/10/2022</i> | |
| Kokomo-Howard County Governmental Coordinating Council (KHCGCC) | FY 2022-2026 |
| • <i>Version 3/10/2022</i> | |
| Kentuckiana Regional Planning and Development Agency (KIPDA) | FY 2020-2025 |
| • <i>Version 3/29/2022</i> | |
| Indianapolis Metropolitan Planning Organization (IMPO) | FY 2022-2025 |
| • <i>Version 8/18/2021</i> | |
| Michiana Area Council of Governments (MACOG) | FY 2022-2026 |
| • <i>Version 3/09/2022</i> | |

| | |
|--|--------------|
| Madison County Council of Governments (MCCOG) | FY 2022-2026 |
| • <i>Version 7/13/2021</i> | |
| Northeastern Indiana Regional Coordinating Council (NIRCC) | FY 2022-2026 |
| • <i>Version 3/28/2022</i> | |
| Northwestern Indiana Regional Planning Commission (NIRPC) | FY 2022-2026 |
| • <i>Version 3/17/2022</i> | |
| Ohio-Kentucky-Indiana Regional Council of Governments (OKI) | FY 2020-2023 |
| • <i>Version 03/10/2022</i> | |
| Terre Haute Area Metropolitan Planning Organization (THAMPO) | FY 2020-2024 |
| • <i>Version 08/26/2021</i> | |

In addition, INDOT has expanded our public involvement process by taking advantage of virtual meeting techniques and allowing accessibility to online documents, materials, virtual meeting registration, recorded virtual meetings, and comment forms. INDOT also leveraged our planning partner contacts (MPOs, RPOs, LTAP), social media, and notifications sent to local libraries, housing authorities, senior aging centers, and local newspapers across the state.

We greatly appreciate FHWA/FTA support in the development of the STIP 2022-2026 and look forward to working together to achieve our mutual goals. Should you have any questions pertaining to this amendment, please contact Michael McNeil, STIP Specialist at 317-232-0223 or at mmcneil@indot.in.gov.

Sincerely,



Michael Smith, Commissioner
Indiana Department of Transportation

cc: (w/enclosure): FTA
Michelle Allen, FHWA
Jeffrey Brooks, INDOT
Kristin Brier, INDOT
Kathy Eaton-McKalip, INDOT
Louis Feagans, INDOT
Roy Nunnally, INDOT
Larry Buckel, INDOT
Jay Mitchell, INDOT
Jason Casteel, INDOT
Michael McNeil, INDOT



Federal Transit Administration
Region V
200 West Adams St., Suite 320
Chicago, IL 60606-5253

U.S. Department
of Transportation

Federal Highway Administration
Indiana Division
575 N. Pennsylvania St., Rm 254
Indianapolis, IN 46204-1576

June 17, 2022

Mr. Michael Smith
Commissioner
Indiana Department of Transportation
100 N Senate Ave. N955
Indianapolis, IN 46204

SUBJECT: Indiana FY2022-2026 STIP Approval and Associated Federal Planning Finding

Dear Mr. Smith:

The Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA) have completed our review of the FY2022-2026 Indiana Statewide Transportation Improvement Program (INSTIP), which was submitted by the INDOT request letter dated April 27, 2022.

Based on our review of the information provided, certifications of the Statewide and Metropolitan transportation planning processes for and within the state of Indiana, and our participation in those transportation planning processes (including planning certification reviews conducted in Transportation Management Areas), FHWA and FTA are jointly approving the FY2022-2026 STIP, including the Metropolitan Planning Organization (MPO) Transportation Improvement Programs (TIPs) directly incorporated into the STIP, subject to the corrective actions identified in the attached Federal Planning Finding (FPF) report. FHWA and FTA consider the projects in the 5th year for informational purposes only, and our approval does not exceed four years per 23 CFR 450.220(c).

FHWA and FTA are required under 23 CFR 450.220(b) to document and issue an FPF in conjunction with the approval of the FY2022-2026 STIP. At a minimum, the FPF verifies that the development of the STIP is consistent with the provisions of both the Statewide and Metropolitan transportation planning requirements. FHWA and FTA find that the Indiana FY2022-2026 STIP substantially meets the transportation planning requirements and are approving the STIP subject to the corrective actions outlined in the FPF. This approval is effective June 17, 2022, and is given with the understanding that an eligibility determination of individual projects for funding must be met, and INDOT must ensure the satisfaction of all administrative and statutory requirements, as well as address the corrective actions outlined in the attached report. FHWA and FTA will continue to partner with INDOT to ensure the previously developed action plan (attached) is implemented to address the corrective actions. If progress is not made in addressing the corrective actions, future amendments to the FY2022-2026 STIP, or adoption of the FY2024-2028 STIP, may not be approved by USDOT.

If you have questions or need additional information concerning our approval and the FPF, please contact Ms. Michelle Allen of the FHWA Indiana Division at (317) 226-7344, or by email at michelle.allen@dot.gov, or Mr. Jason Ciavarella of the FTA Region 5 Office at (312) 353-1653, or by email at jason.ciavarella@dot.gov.

Sincerely,

**KELLEY
BROOKINS** Digitally signed by
KELLEY BROOKINS
Date: 2022.06.13
10:08:34 -05'00'

Kelley Brookins
Regional Administrator
FTA Region V

Sincerely,

**JERMAINE
R HANNON** Digitally signed by
JERMAINE R
HANNON
Date: 2022.06.13
15:57:46 -04'00'

Jermaine R. Hannon
Division Administrator
FHWA Indiana Division

cc: (transmitted by e-mail)
Louis Feagans, INDOT
Roy Nunnally, INDOT
Karen Hicks, INDOT

Attachments have been removed for the purposes of this NEPA document.

Project List FY 2022-2026

INDIANA DEPARTMENT OF TRANSPORTATION

| SR 45-46, 0.20 Miles E of I-69 (Arlington Road) to 0.93 Miles E of I-69 (Kinser Pike) [1700198] | | | | | |
|---|-------------|----------------|-----------------|-------------|-------------|
| Project Phase | Fiscal Year | Federal Source | Federal Funding | State Match | Total* |
| CN | 2024 | NHPP | \$4,720,000 | \$1,180,000 | \$5,900,000 |
| Totals | | | \$4,720,000 | \$1,180,000 | \$5,900,000 |

*Estimated Total Project Cost (23 CFR 450.218(i)(2); 23 CFR 450.326(g)(2)). FY2026 is illustrative.

| SR 45 at the Intersection of Pete Ellis Drive [1800199] | | | | | |
|---|-------------|----------------|-----------------|-------------|-------------|
| Project Phase | Fiscal Year | Federal Source | Federal Funding | State Match | Total* |
| RW | 2022 | STPBG | \$320,000 | \$80,000 | \$400,000 |
| CN | 2023 | STPBG | \$1,833,913 | \$458,478 | \$2,292,391 |
| Totals | | | \$2,153,913 | \$538,478 | \$2,692,391 |

*Estimated Total Project Cost (23 CFR 450.218(i)(2); 23 CFR 450.326(g)(2)). FY2026 is illustrative.

| SR 37 at Intersection with Dillman Road [1800371] | | | | | |
|---|-------------|----------------|-----------------|-------------|-------------|
| Project Phase | Fiscal Year | Federal Source | Federal Funding | State Match | Total* |
| CN | 2024 | NHPP | \$1,209,431 | \$302,358 | \$1,511,789 |
| Totals | | | \$1,209,431 | \$302,358 | \$1,511,789 |

*Estimated Total Project Cost (23 CFR 450.218(i)(2); 23 CFR 450.326(g)(2)). FY2026 is illustrative.

| SR 37 - 3.65 Miles South of SR 45 over Abandoned Railroad Northbound Lane [1801171] | | | | | |
|---|-------------|----------------|-----------------|-------------|-----------|
| Project Phase | Fiscal Year | Federal Source | Federal Funding | State Match | Total* |
| CN | 2024 | NHPP | \$329,854 | \$82,464 | \$412,318 |
| Totals | | | \$329,854 | \$82,464 | \$412,318 |

*Estimated Total Project Cost (23 CFR 450.218(i)(2); 23 CFR 450.326(g)(2)). FY2026 is illustrative.

| SR 46 Bridge Superstructure Replacement at 06.04 Miles W of SR 37 @ Jacks Defeat Creek (WBL) [1900098] | | | | | |
|--|-------------|----------------|-----------------|-------------|-------------|
| Project Phase | Fiscal Year | Federal Source | Federal Funding | State Match | Total* |
| PE | 2024 | NHPP | \$60,000 | \$15,000 | \$75,000 |
| RW | 2022 | NHPP | \$44,000 | \$11,000 | \$55,000 |
| CN | 2024 | NHPP | \$1,967,656 | \$491,914 | \$2,459,570 |
| Totals | | | \$2,071,656 | \$517,914 | \$2,589,570 |

*Estimated Total Project Cost (23 CFR 450.218(i)(2); 23 CFR 450.326(g)(2)). FY2026 is illustrative.

Appendix H

Additional Studies

LWCF Resources

| | | | |
|-----------|-----------|----------|---|
| 1800401.3 | 1800401.3 | Marion | Cancer Park |
| 1800401.4 | 1800401.4 | Marion | Krannert Park |
| 1800404 | 1800404 | Marion | Major Taylor Velodrome & Lake Sullivan |
| 1800459 | 1800459 | Marion | Fall Creek Parkway, Fall Creek Corridor Ph.III |
| 1800467 | 1800467 | Marion | Hartman Park/Beech Grove Little League |
| 1800478 | 1800478 | Marion | Oaklandon Play Park |
| 1800505 | 1800505 | Marion | Fall Creek Parkway, Fall Creek Corridor Ph.III |
| 1800541 | 1800541 | Marion | Southwestway Park |
| 1800600 | 1800600 | Marion | Southport Park |
| 1800617 | 1800617 | Marion | Fort Benjamin Harrison Civic Plaza |
| 1800635 | 1800635 | Marion | Leonard Park |
| 1800104 | 1800104 | Marshall | Centennial Park & Plymouth Municipal Pool |
| 1800259 | 1800259 | Marshall | Centennial Park & Plymouth Municipal Pool |
| 1800341 | 1800341 | Marshall | Sunnyside Park |
| 1800357 | 1800357 | Marshall | Centennial Park & Plymouth Municipal Pool |
| 1800359 | 1800359 | Marshall | Packard Woods Park |
| 1800388 | 1800388 | Marshall | Argos Town Park |
| 1800405 | 1800405P | Marshall | Menominee Wetlands Conservation Area |
| 1800418 | 1800418 | Marshall | Culver Park & Beach |
| 1800565 | 1800565 | Marshall | Argos Community Park |
| 1800630 | 1800630 | Marshall | Pond Park |
| 1800042 | 1800042 | Martin | West Boggs Park and Lakeview Golf Course |
| 1800215 | 1800215 | Martin | West Boggs Park and Lakeview Golf Course |
| 1800293 | 1800293 | Martin | Loogootee City Park |
| 1800363 | 1800363Q | Martin | Martin State Forest |
| 1800637 | 1800637 | Martin | West Boggs Park |
| 1800069 | 1800069B | Miami | Miami State Recreation Area |
| 1800171 | 1800171Y | Miami | Mississinewa Reservoir |
| 1800375 | 1800375D | Miami | Mississinewa Reservoir |
| 1800413 | 1800413H | Miami | Miami State Recreation Area, Mississinewa Reservoir |
| 1800449 | 1800449A | Miami | Miami State Recreation Area, Mississinewa Reservoir |
| 1800563 | 1800563 | Miami | Mississinewa Reservoir - Miami SRA |
| 1800594 | 1800594B | Miami | Miami SRA |
| 1800026 | 1800026 | Monroe | Fairfax Beach & SRA - Monroe Reservoir |

| | | | |
|---------|-----------|------------|---|
| 1800033 | 1800033 | Monroe | Paynetown SRA - Monroe Reservoir |
| 1800039 | 1800039 | Monroe | Fairfax Beach & State Recreation Area, Monroe Reservoir |
| 1800084 | 1800084 | Monroe | Moore's Creek State Recreation Area, Monroe Reservoir |
| 1800118 | 1800118E | Monroe | Fairfax SRA |
| 1800129 | 1800129 | Monroe | Karst Farm Park |
| 1800157 | 1800157 | Monroe | Southeast Park |
| 1800158 | 1800158 | Monroe | Crestmont Park |
| 1800160 | 1800160 | Monroe | Park Square Park (Highland Village Park) |
| 1800171 | 1800171W | Monroe | Paynetown SRA |
| 1800190 | 1800190A | Monroe | Cascades Community Park |
| 1800190 | 1800190B | Monroe | Park Ridge East Park |
| 1800190 | 1800190C | Monroe | Park Ridge West Park |
| 1800190 | 1800190D | Monroe | Winslow Sports Complex |
| 1800232 | 1800232 | Monroe | Allens Creek State Recreation Area, Monroe Reservoir |
| 1800363 | 1800363T | Monroe | Allens Creek SRA |
| 1800423 | 1800423 | Monroe | Bryan Park & Pool |
| 1800487 | 1800487 | Monroe | Thomson Park |
| 1800490 | 1800490 | Monroe | Jackson Creek County Park |
| 1800504 | 1800504 | Monroe | Thomson Park |
| 1800509 | 1800509 | Monroe | Thomson Park |
| 1800572 | 1800572 | Monroe | Will Detmer Park |
| 1800133 | 1800133 | Montgomery | Lincoln Activity Area (Lincoln Recreation Center) |
| 1800161 | 1800161E | Montgomery | Shades State Park |
| 1800171 | 1800171L | Montgomery | Shades State Park |
| 1800211 | 1800211 | Montgomery | Lake Waveland Park |
| 1800308 | 1800308 | Montgomery | Shades State Park |
| 1800312 | 1800312N | Montgomery | Shades State Park |
| 1800327 | 1800327I | Montgomery | Shades State Park |
| 1800363 | 1800363BB | Montgomery | Shades State Park |
| 1800405 | 1800405A | Montgomery | Calvert and Porter Woods |
| 1800413 | 1800413R | Montgomery | Shades State Park |
| 1800456 | 1800456 | Montgomery | Shades State Park |
| 1800480 | 1800480 | Montgomery | Darlington Old School Park |
| 1800110 | 1800110 | Morgan | Pioneer Park |