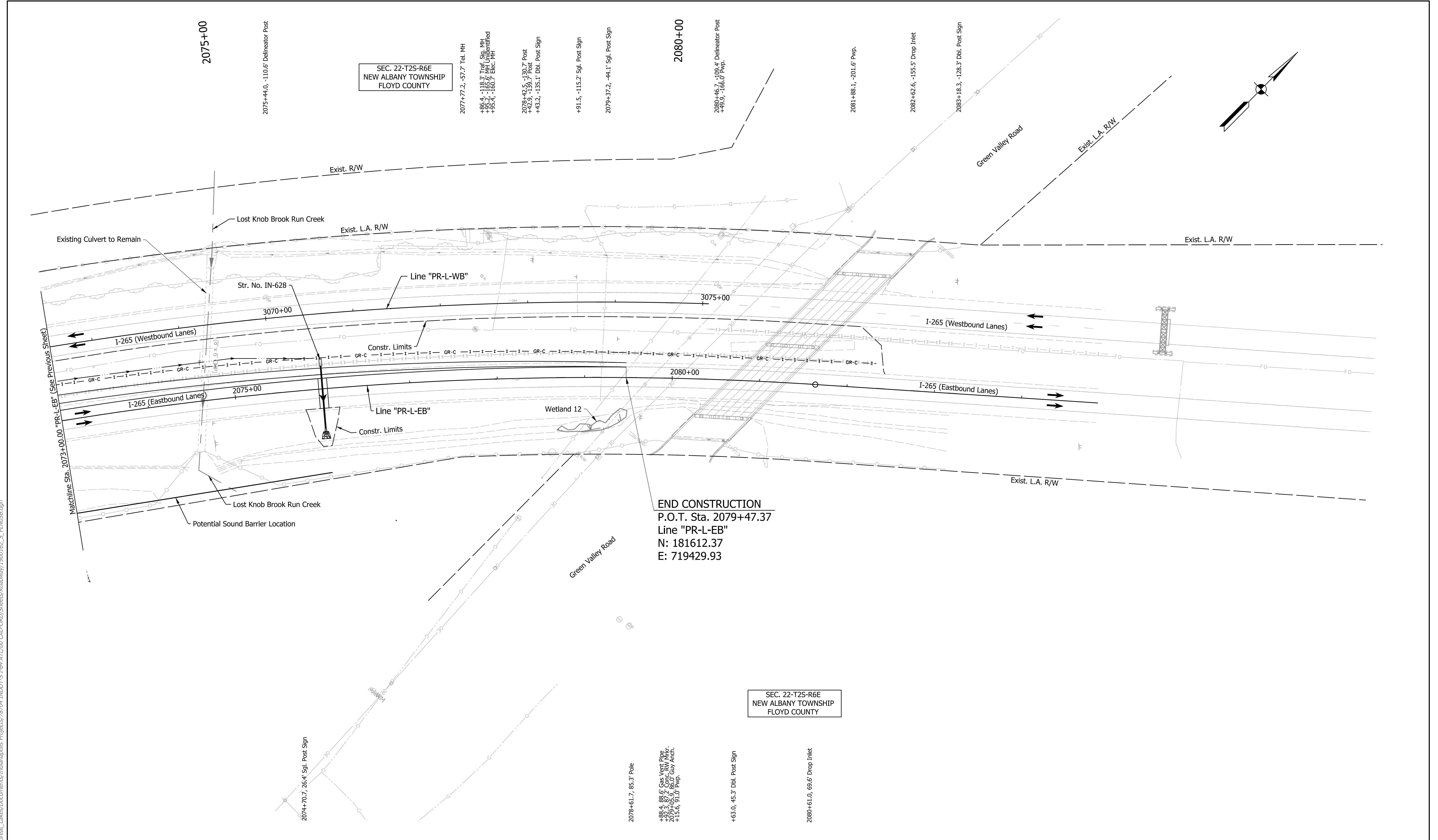


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SEC. 22-T2S-R6E  
NEW ALBANY TOWNSHIP  
FLOYD COUNTY

SEC. 22-T2S-R6E  
NEW ALBANY TOWNSHIP  
FLOYD COUNTY

**DRAFT**  
NOT FOR CONSTRUCTION

|                          |                 |      |
|--------------------------|-----------------|------|
| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: AMP            | DRAWN: JP       |      |
| CHECKED: JMB             | CHECKED: JMB    |      |

INDIANA  
DEPARTMENT OF TRANSPORTATION

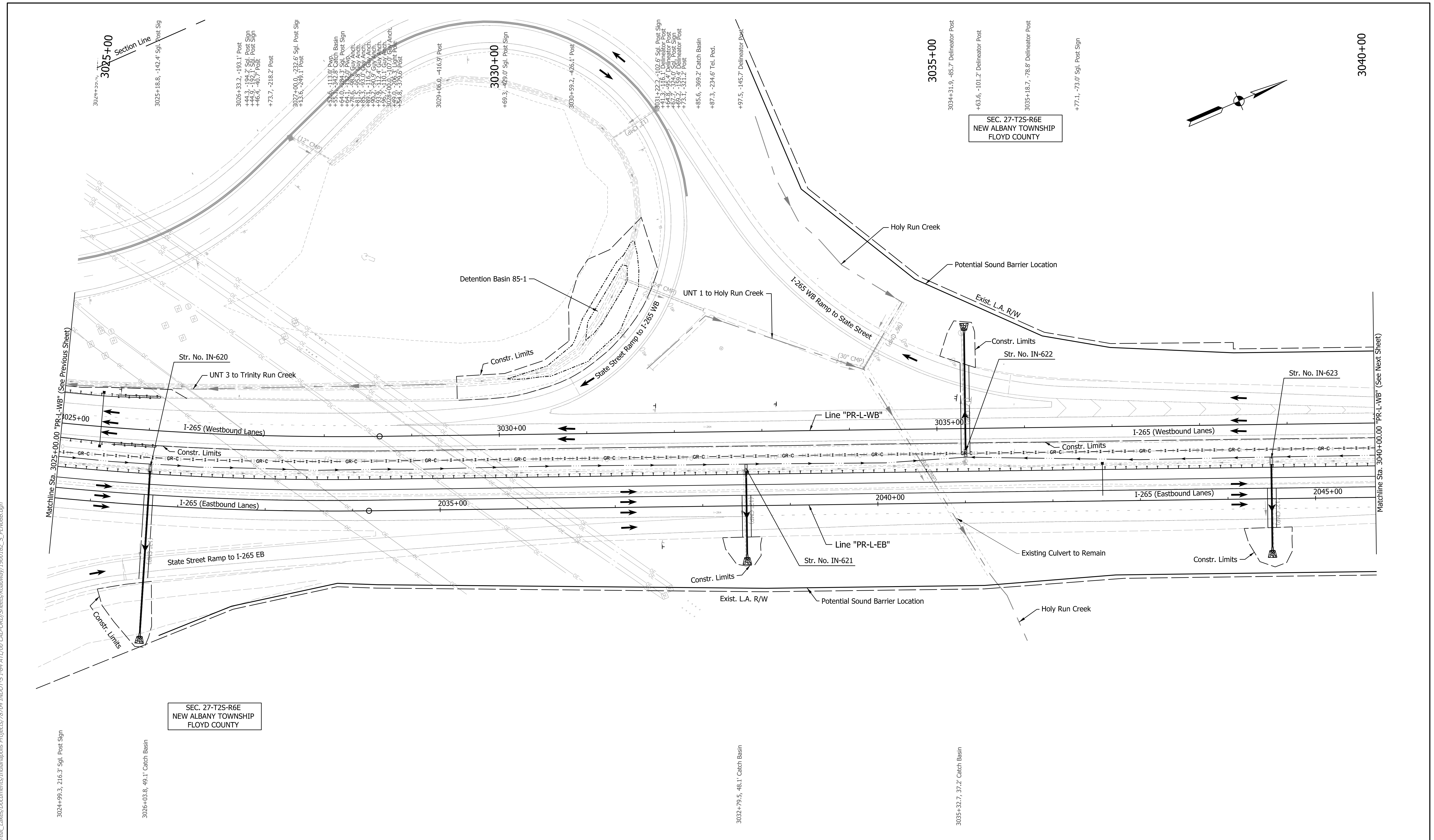
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LINE "PR-L-EB"  
STA. 2073+00 TO STA. 2077+97.42

|                  |             |
|------------------|-------------|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=50'           | N/A         |
| VERTICAL SCALE   | DESIGNATION |
| N/A              | 1900162     |
| SURVEY BOOK      | SHEETS      |
| ELECTRONIC       | 439 of 1273 |
| CONTRACT         | PROJECT     |
| R-42570          | 1900162     |



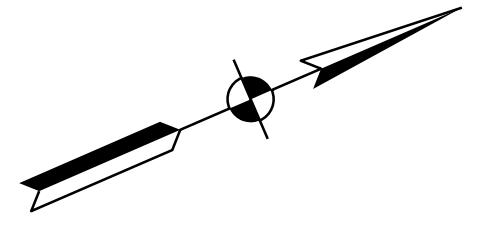


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SEC. 27-T2S-R6E  
NEW ALBANY TOWNSHIP  
FLOYD COUNTY

SEC. 27-T2S-R6E  
NEW ALBANY TOWNSHIP  
FLOYD COUNTY



**DRAFT**  
NOT FOR CONSTRUCTION

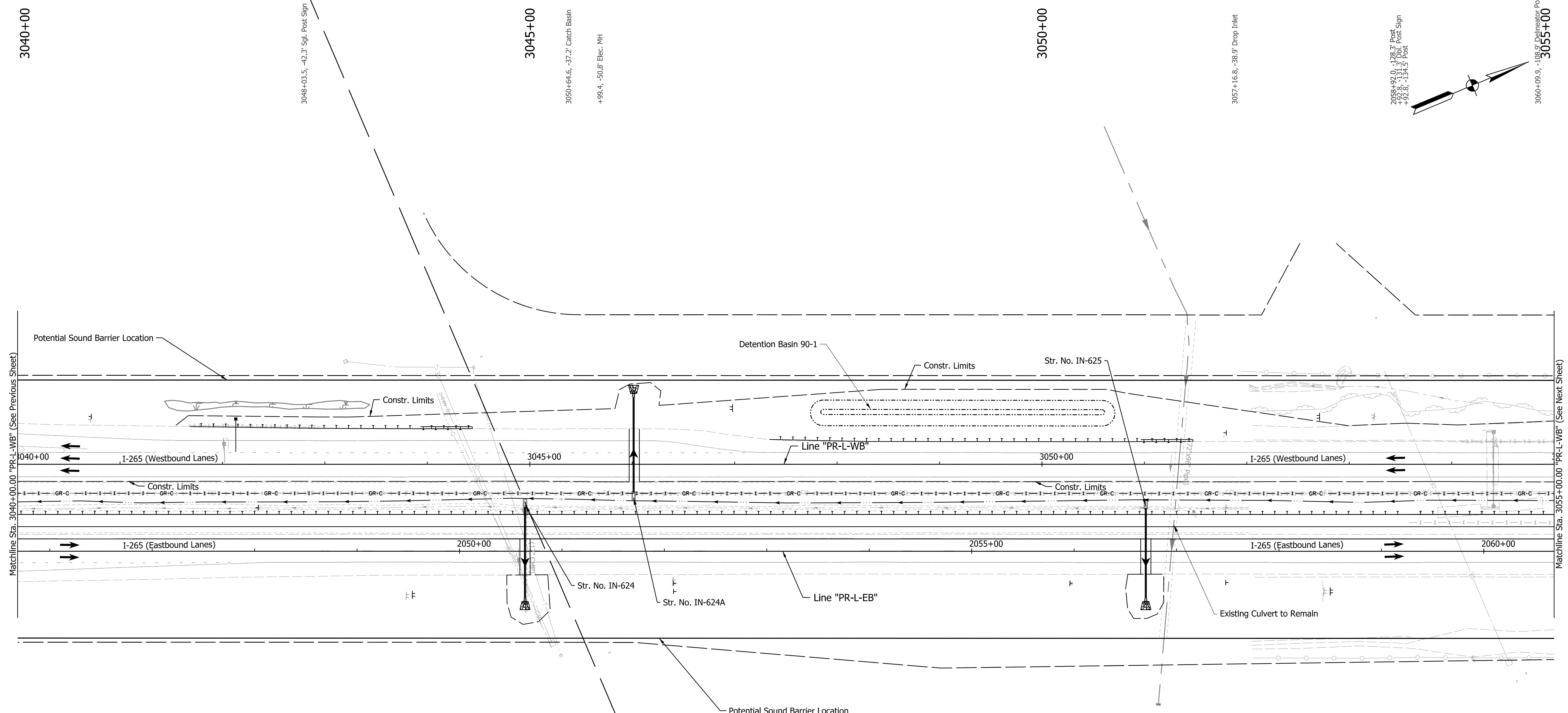
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| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: AMP            | DRAWN: JP       |      |
| CHECKED: JMB             | CHECKED: JMB    |      |

INDIANA  
DEPARTMENT OF TRANSPORTATION

PLAN SHEET  
LINE "PR-L-WB"  
STA. 3025+00 TO STA. 3040+00

|                  |             |
|------------------|-------------|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=50'           | N/A         |
| VERTICAL SCALE   | DESIGNATION |
| N/A              | 1900162     |
| SURVEY BOOK      | SHEETS      |
| ELECTRONIC       | 445 of 1273 |
| CONTRACT         | PROJECT     |
| R-42570          | 1900162     |

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**DRAFT**  
NOT FOR CONSTRUCTION

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|--------------------------------|--------------------------|------------|
| RECOMMENDED FOR APPROVAL _____ | DESIGN ENGINEER _____    | DATE _____ |
| DESIGNED: _____ AMP _____      | DRAWN: _____ JP _____    |            |
| CHECKED: _____ JMB _____       | CHECKED: _____ JMB _____ |            |

INDIANA  
DEPARTMENT OF TRANSPORTATION

**PLAN SHEET**  
**LINE "PR-L-WB"**  
**STA. 3040+00 TO STA. 3055+00**

|                  |             |
|------------------|-------------|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=50'           | N/A         |
| VERTICAL SCALE   | DESIGNATION |
| N/A              | 1900162     |
| SURVEY BOOK      | SHEETS      |
| ELECTRONIC       | 447 of 1273 |
| CONTRACT         | PROJECT     |
| R-42570          | 1900162     |

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3055+00

- +87.1, -56.3' Delineator Post
- 3061+99.6, -167.9' Pole
- 3062+45.3, -42.0' Drop Inlet
- +74.0, -110.5' Sgl. Post Sign
- 3063+70.1, -172.7' Pwp.
- +83.0, -172.3' Guy Pole
- +85.8, -172.8' Guy Pole
- 3064+10.3, -109.1' Delineator Post
- +72.1, -55.7' Traf. Sig. MH

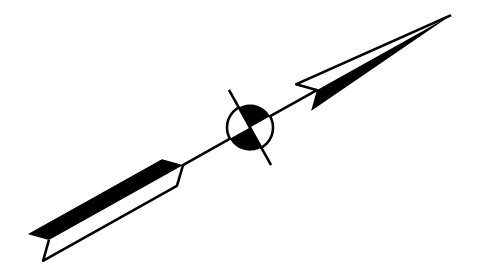
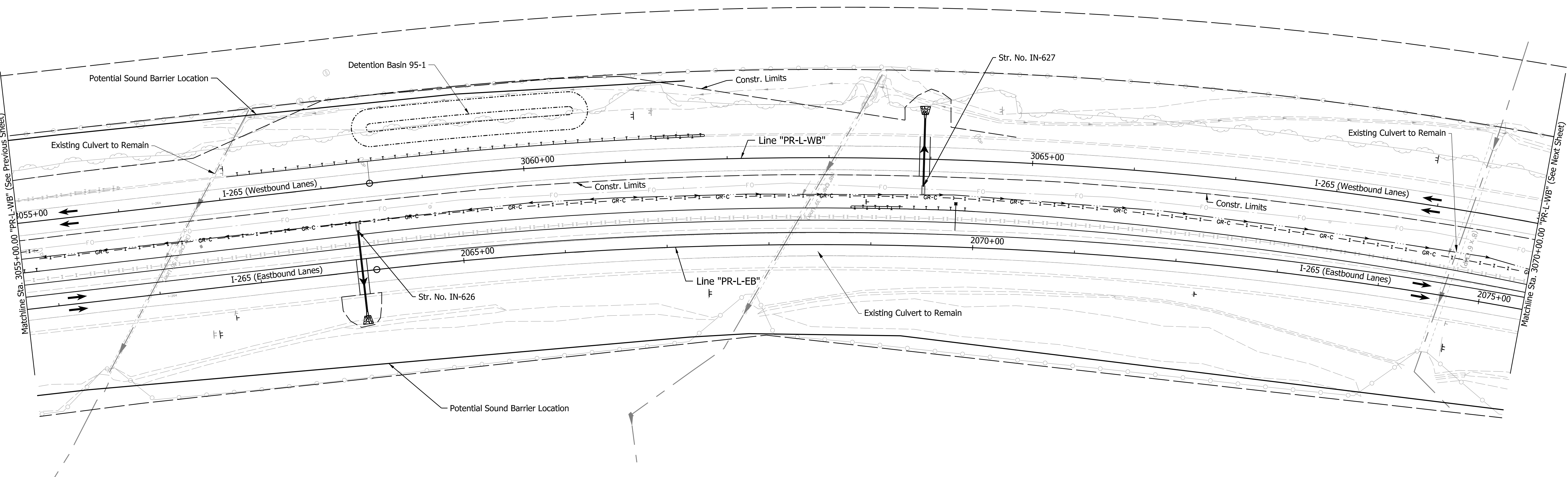
3060+00

- 3065+99.1, -120.8' Post
- +89.2, -137.9' Post
- +89.3, -134.2' Dbl. Post Sign

- 3068+94.3, -42.4' Sgl. Post Sign

- 3070+00.3, -109.4' Delineator Post
- +22.3, -131.3' Post
- +22.8, -140.3' Post
- +23.0, -135.7' Dbl. Post Sign

3065+00



3070+00

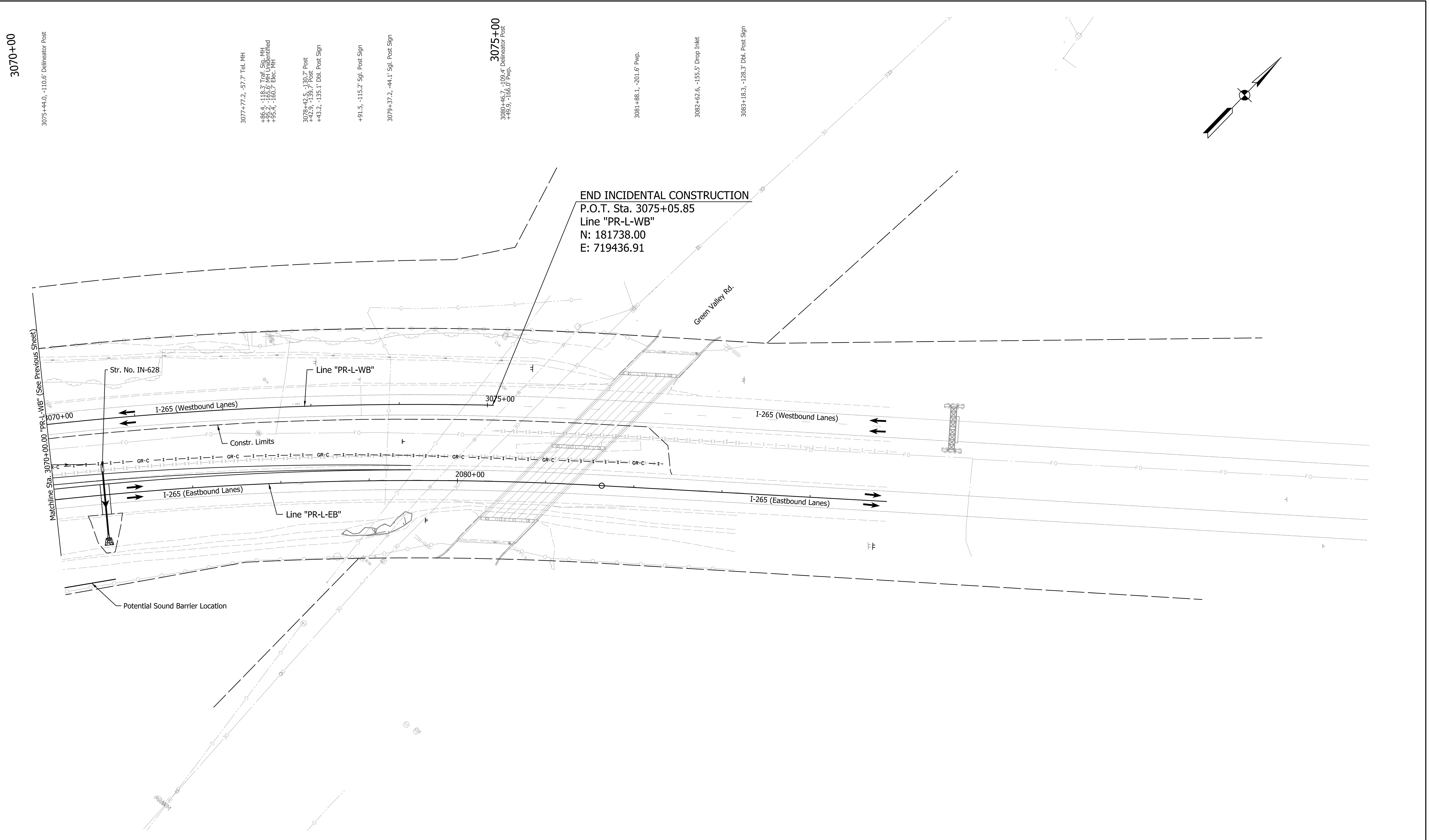
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|--------------------------------|--------------------------|------------|
| RECOMMENDED FOR APPROVAL _____ | DESIGN ENGINEER _____    | DATE _____ |
| DESIGNED: _____ AMP _____      | DRAWN: _____ JP _____    |            |
| CHECKED: _____ JMB _____       | CHECKED: _____ JMB _____ |            |

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
  
**PLAN SHEET**  
**LINE "PR-L-WB"**  
**STA. 3055+00 TO STA. 3070+00**

|                            |                        |
|----------------------------|------------------------|
| HORIZONTAL SCALE<br>1"=50' | BRIDGE FILE<br>N/A     |
| VERTICAL SCALE<br>N/A      | DESIGNATION<br>1900162 |
| SURVEY BOOK<br>ELECTRONIC  | SHEETS<br>449 of 1273  |
| CONTRACT<br>R-42570        | PROJECT<br>1900162     |

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**END INCIDENTAL CONSTRUCTION**  
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 E: 719436.91

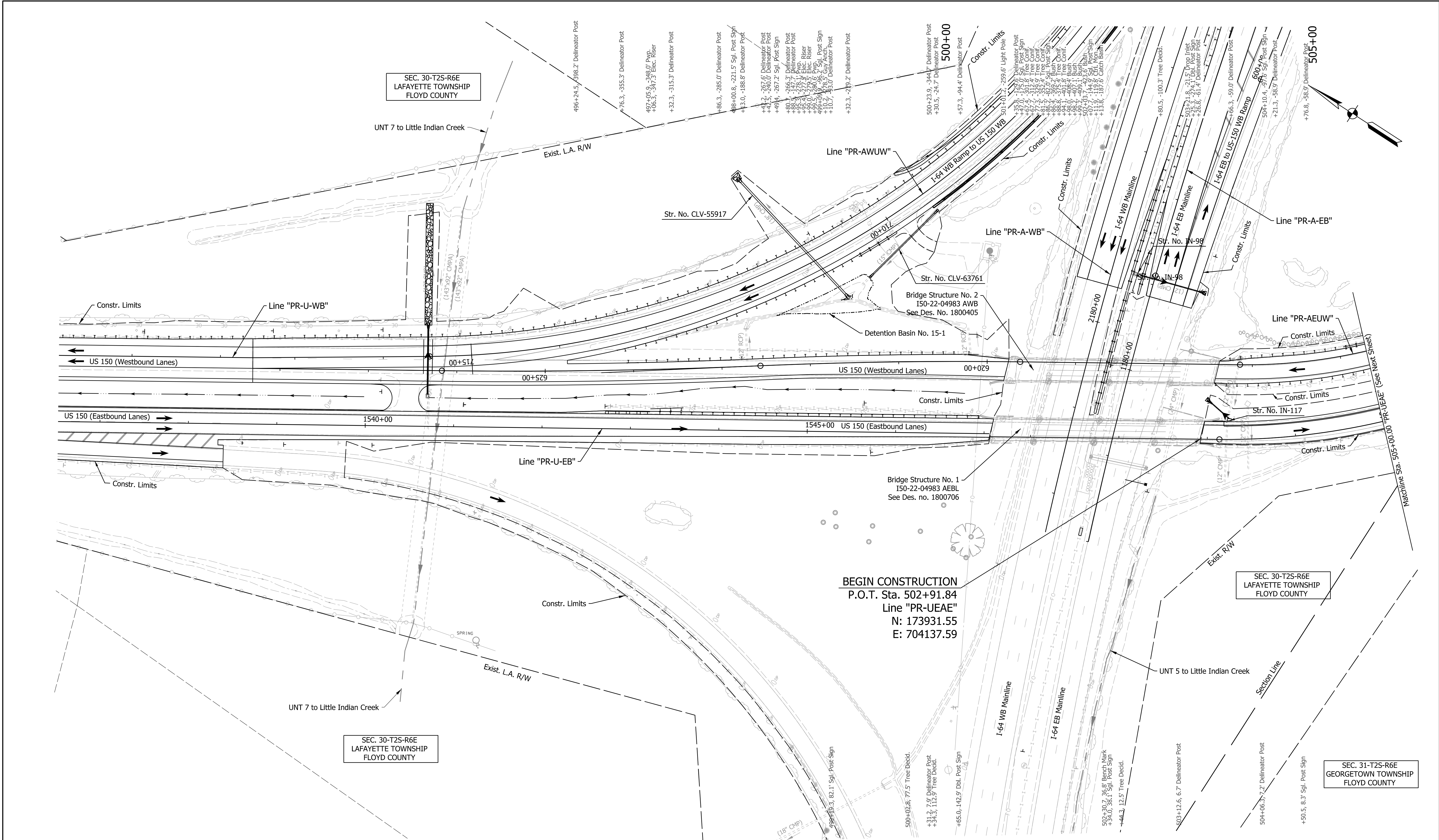
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 NOT FOR CONSTRUCTION

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|--------------------------------|--------------------------|------------|
| RECOMMENDED FOR APPROVAL _____ | DESIGN ENGINEER _____    | DATE _____ |
| DESIGNED: _____ AMP _____      | DRAWN: _____ JP _____    |            |
| CHECKED: _____ JMB _____       | CHECKED: _____ JMB _____ |            |

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
  
**PLAN SHEET**  
**LINE "PR-L-WB"**  
**STA. 3070+00 TO STA. 3075+07**

|                  |             |
|------------------|-------------|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=50'           | N/A         |
| VERTICAL SCALE   | DESIGNATION |
| N/A              | 1900162     |
| SURVEY BOOK      | SHEETS      |
| ELECTRONIC       | 451 of 1273 |
| CONTRACT         | PROJECT     |
| R-42570          | 1900162     |

arcosmeyer  
 5/4/2023, 9:10:21 AM  
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**Note:**  
 For Geometric information see Geometric Layout Sheets  
 GEO-01 to GEO-13.

**DRAFT**  
 NOT FOR CONSTRUCTION

|                          |                 |      |
|--------------------------|-----------------|------|
| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: SGM            | DRAWN: RJS      |      |
| CHECKED: KRC             | CHECKED: KRC    |      |

**INDIANA**  
**DEPARTMENT OF TRANSPORTATION**  
  
**PLAN SHEET**  
**LINE "PR-UEAE"**  
**STA. 502+91.84 TO STA. 505+00**

|                  |             |        |
|------------------|-------------|--------|
| HORIZONTAL SCALE | BRIDGE FILE |        |
| 1"=50'           | N/A         |        |
| VERTICAL SCALE   | DESIGNATION |        |
| N/A              | 1900162     |        |
| SURVEY BOOK      | SHEETS      | PLN-31 |
| ELECTRONIC       | 453 of      | 1273   |
| CONTRACT         | PROJECT     |        |
| R-42570          | 1900162     |        |





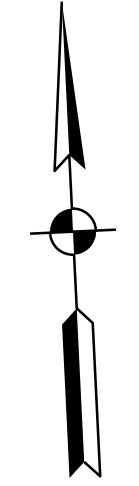
SEC. 30-T25-R6E  
LAFAYETTE TOWNSHIP  
FLOYD COUNTY

SEC. 29-T25-R6E  
NEW ALBANY TOWNSHIP  
FLOYD COUNTY

SEC. 30-T25-R6E  
LAFAYETTE TOWNSHIP  
FLOYD COUNTY

SEC. 29-T25-R6E  
NEW ALBANY TOWNSHIP  
FLOYD COUNTY

END CONSTRUCTION  
P.O.T. Sta. 522+90.00  
Line "PR-UEAE"  
N: 174261.03  
E: 705751.39



arcosmeyer  
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Note:  
For Geometric information see Geometric Layout Sheets  
GEO-01 to GEO-13.

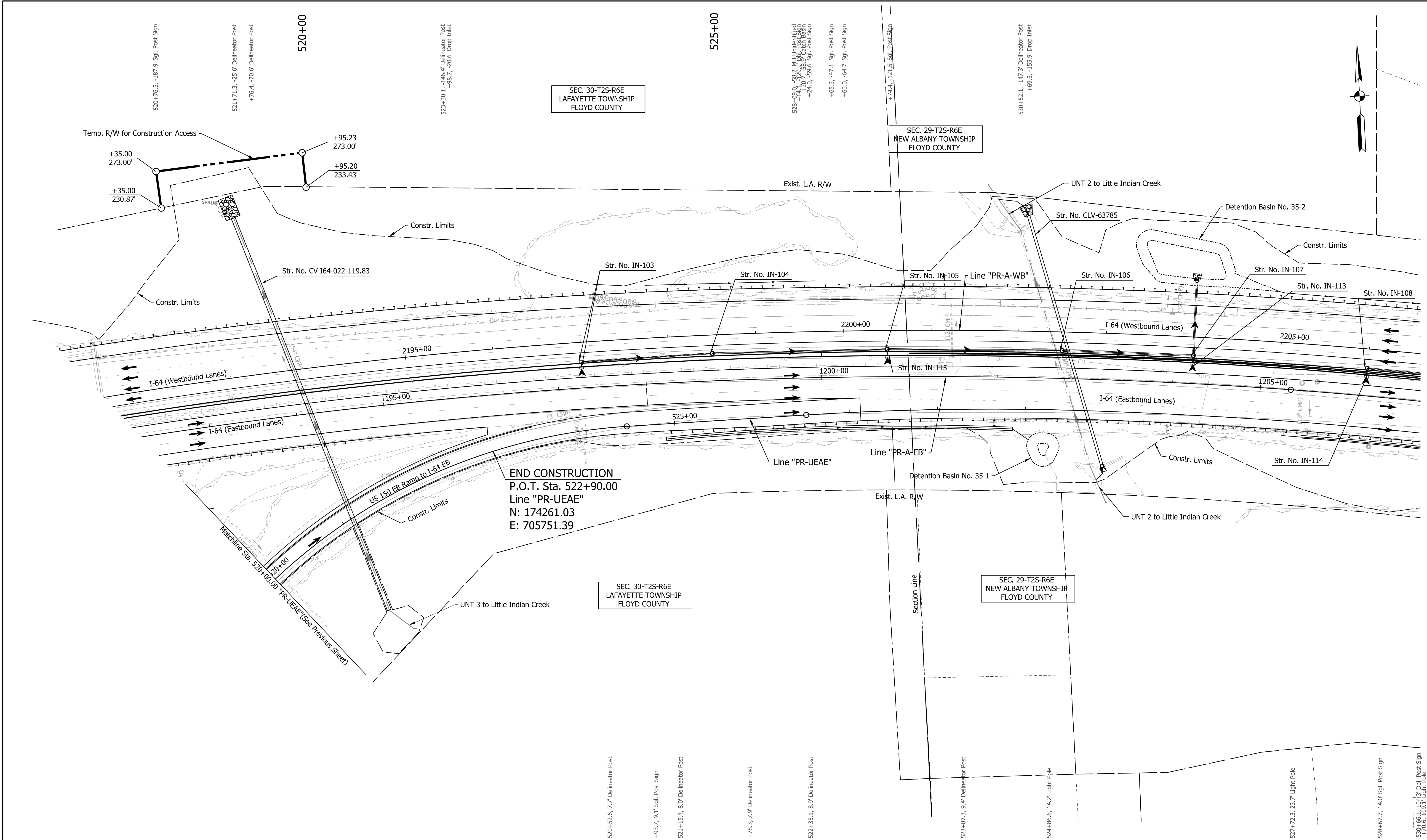
**DRAFT**  
NOT FOR CONSTRUCTION

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| RECOMMENDED FOR APPROVAL _____ | DESIGN ENGINEER _____    | DATE _____ |
| DESIGNED: _____ SGM _____      | DRAWN: _____ RJS _____   |            |
| CHECKED: _____ KRC _____       | CHECKED: _____ KRC _____ |            |

INDIANA  
DEPARTMENT OF TRANSPORTATION

**PLAN SHEET  
LINE "PR-UEAE"  
STA. 520+00 TO STA. 522+90**

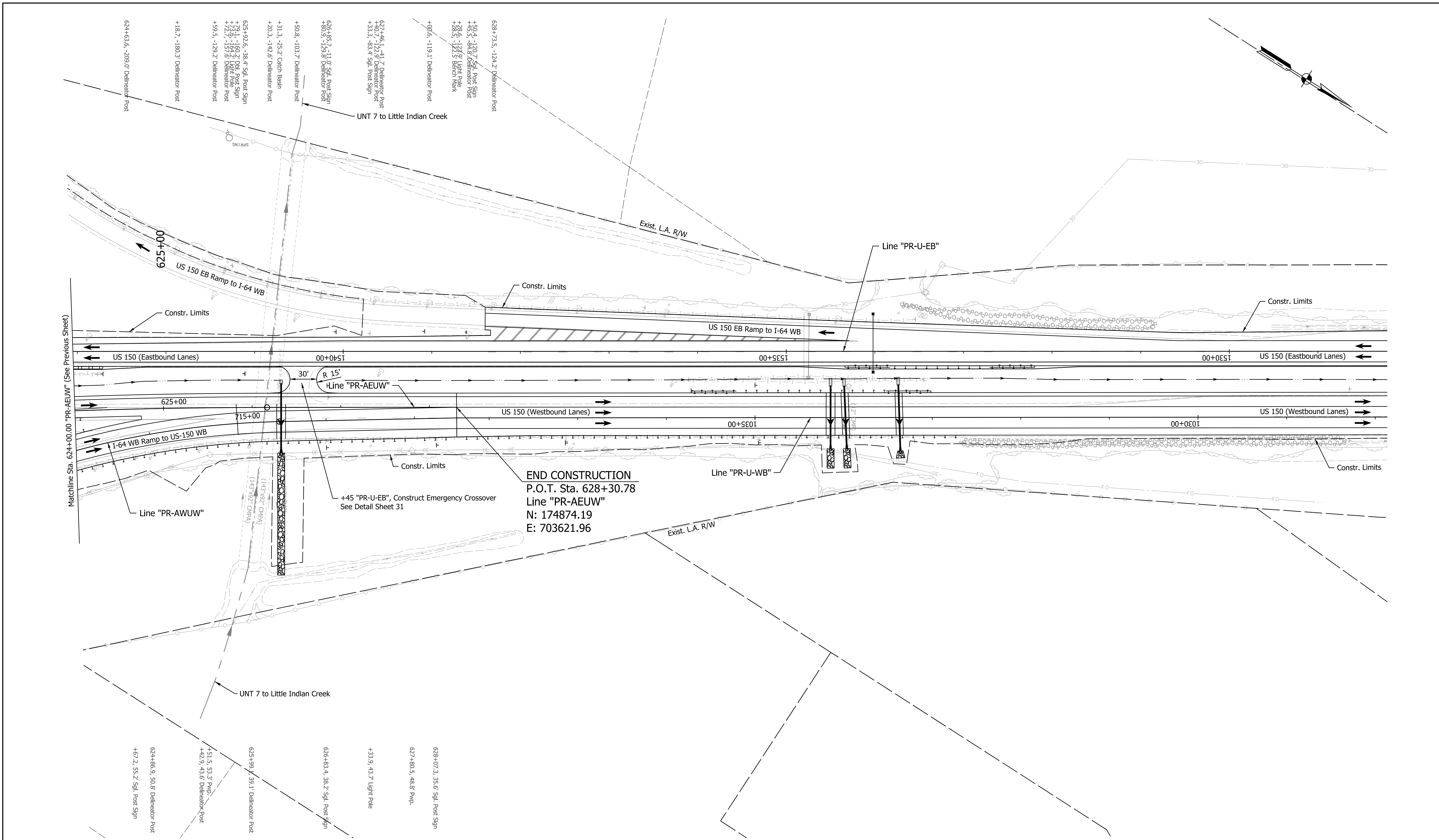
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| VERTICAL SCALE<br>N/A      | DESIGNATION<br>1900162 |
| SURVEY BOOK<br>ELECTRONIC  | SHEETS<br>457 of 1273  |
| CONTRACT<br>R-42570        | PROJECT<br>1900162     |







arcosmeyer  
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**Note:**  
 For Geometric information see Geometric Layout Sheets  
 GEO-01 to GEO-13.

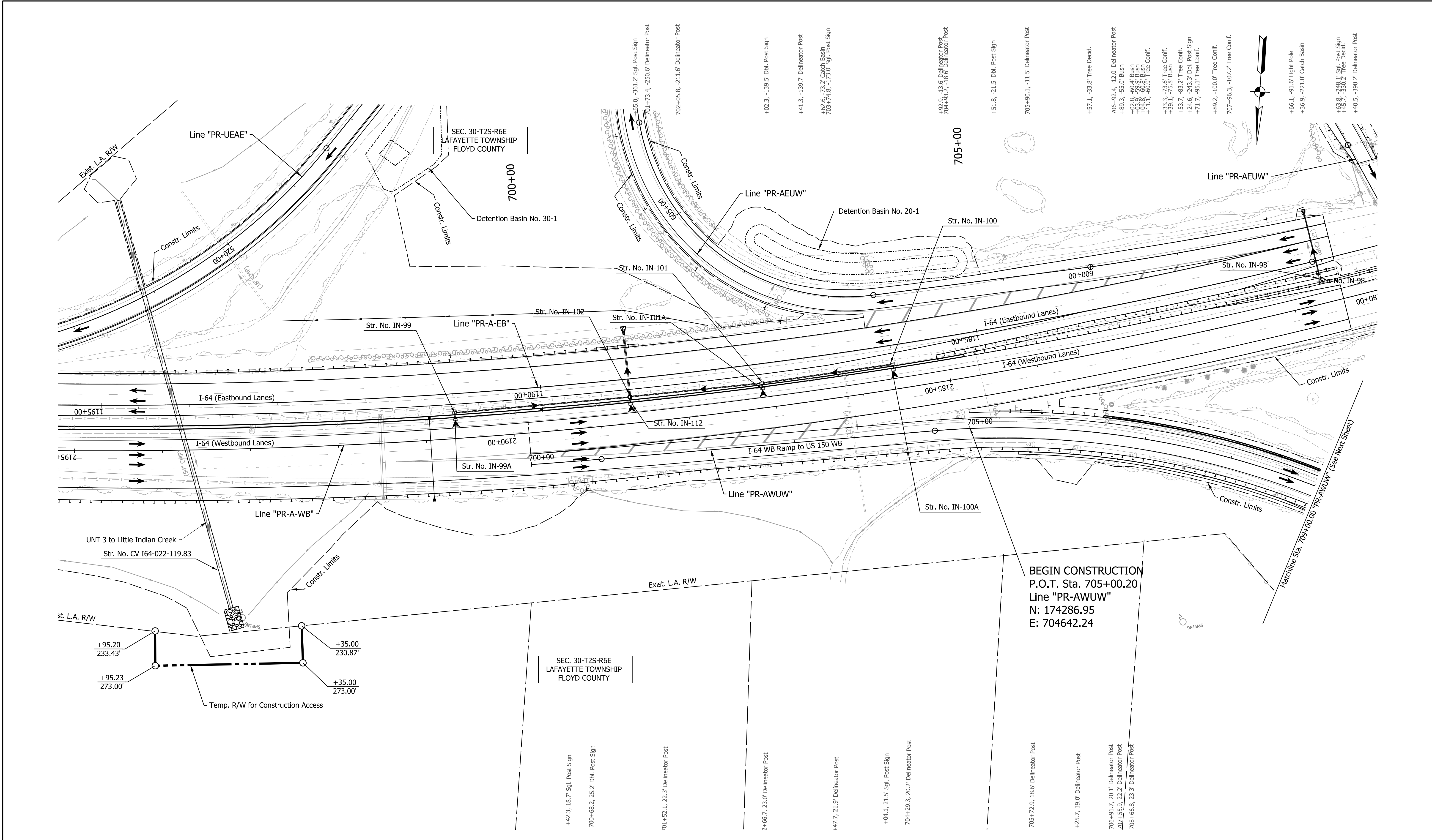
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| DESIGNED: _____ AMP _____      | DRAWN: _____ JP _____    |            |
| CHECKED: _____ JMB _____       | CHECKED: _____ JMB _____ |            |

**INDIANA**  
**DEPARTMENT OF TRANSPORTATION**  
  
**PLAN SHEET**  
**LINE "PR-AEUW"**  
**STA. 624+00 TO STA. 628+30.78**

|                  |             |
|------------------|-------------|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=50'           | N/A         |
| VERTICAL SCALE   | DESIGNATION |
| N/A              | 1900162     |
| SURVEY BOOK      | SHEETS      |
| ELECTRONIC       | 463 of 1273 |
| CONTRACT         | PROJECT     |
| R-42570          | 1900162     |

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**BEGIN CONSTRUCTION**  
 P.O.T. Sta. 705+00.20  
 Line "PR-AWUW"  
 N: 174286.95  
 E: 704642.24

**Note:**  
 For Geometric information see Geometric Layout Sheets  
 GEO-01 to GEO-13.

**DRAFT**  
 NOT FOR CONSTRUCTION

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|--------------------------------|--------------------------|------------|
| RECOMMENDED FOR APPROVAL _____ | DESIGN ENGINEER _____    | DATE _____ |
| DESIGNED: _____ SGM _____      | DRAWN: _____ RJS _____   |            |
| CHECKED: _____ KRC _____       | CHECKED: _____ KRC _____ |            |

**INDIANA**  
**DEPARTMENT OF TRANSPORTATION**  
  
**PLAN SHEET**  
**LINE "PR-AWUW"**  
**STA. 705+00.20 TO STA. 709+00**

|  |   |
|--|---|
| HORIZONTAL SCALE<br>1"=50'                       | BRIDGE FILE<br>N/A                          |
| VERTICAL SCALE<br>N/A                            | DESIGNATION<br>1900162                      |
| SURVEY BOOK<br>ELECTRONIC<br>CONTRACT<br>R-42570 | SHEETS<br>465 of 1273<br>PROJECT<br>1900162 |







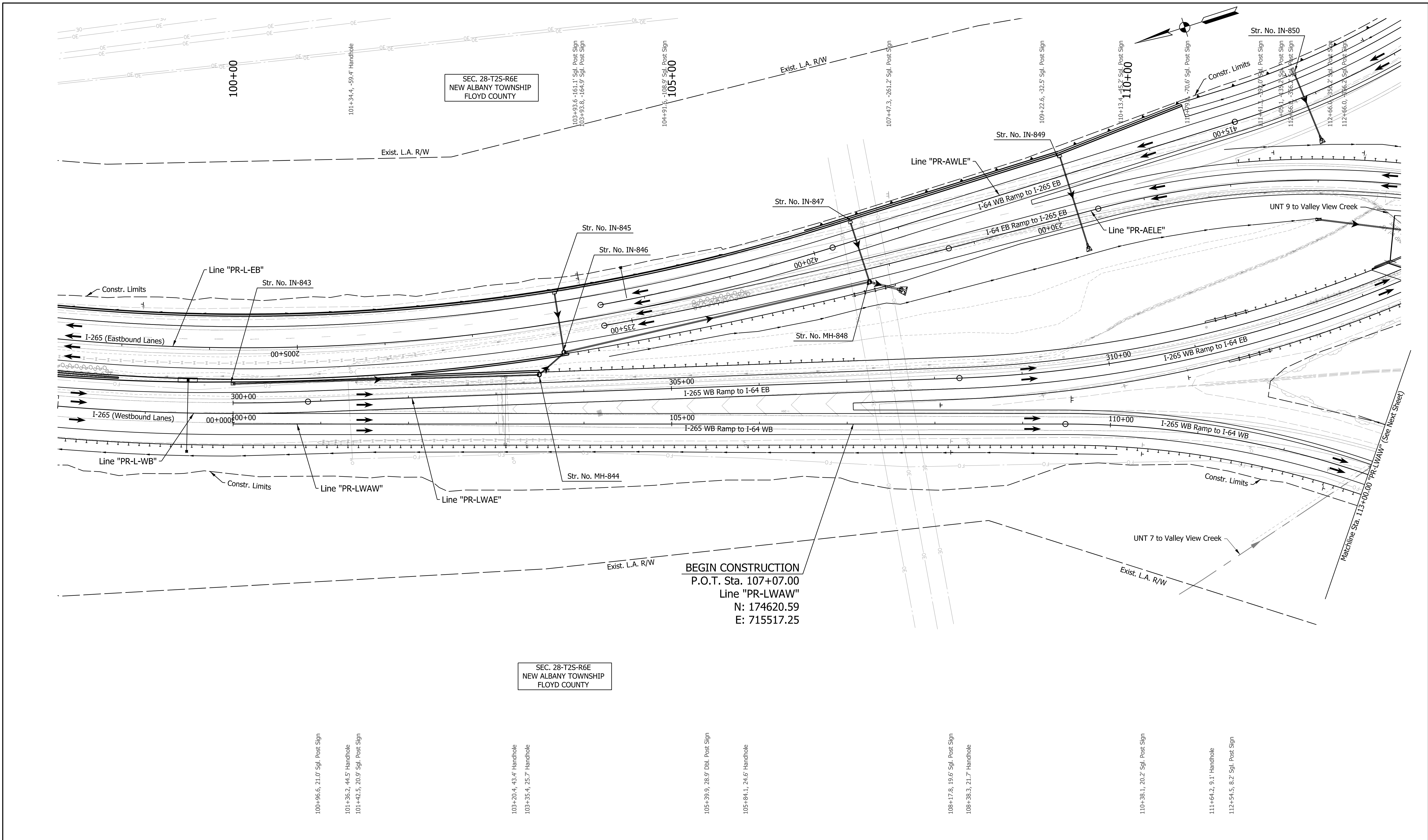








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**Note:**  
 For Geometric information see Geometric Layout Sheets  
 GEO-01 to GEO-13.

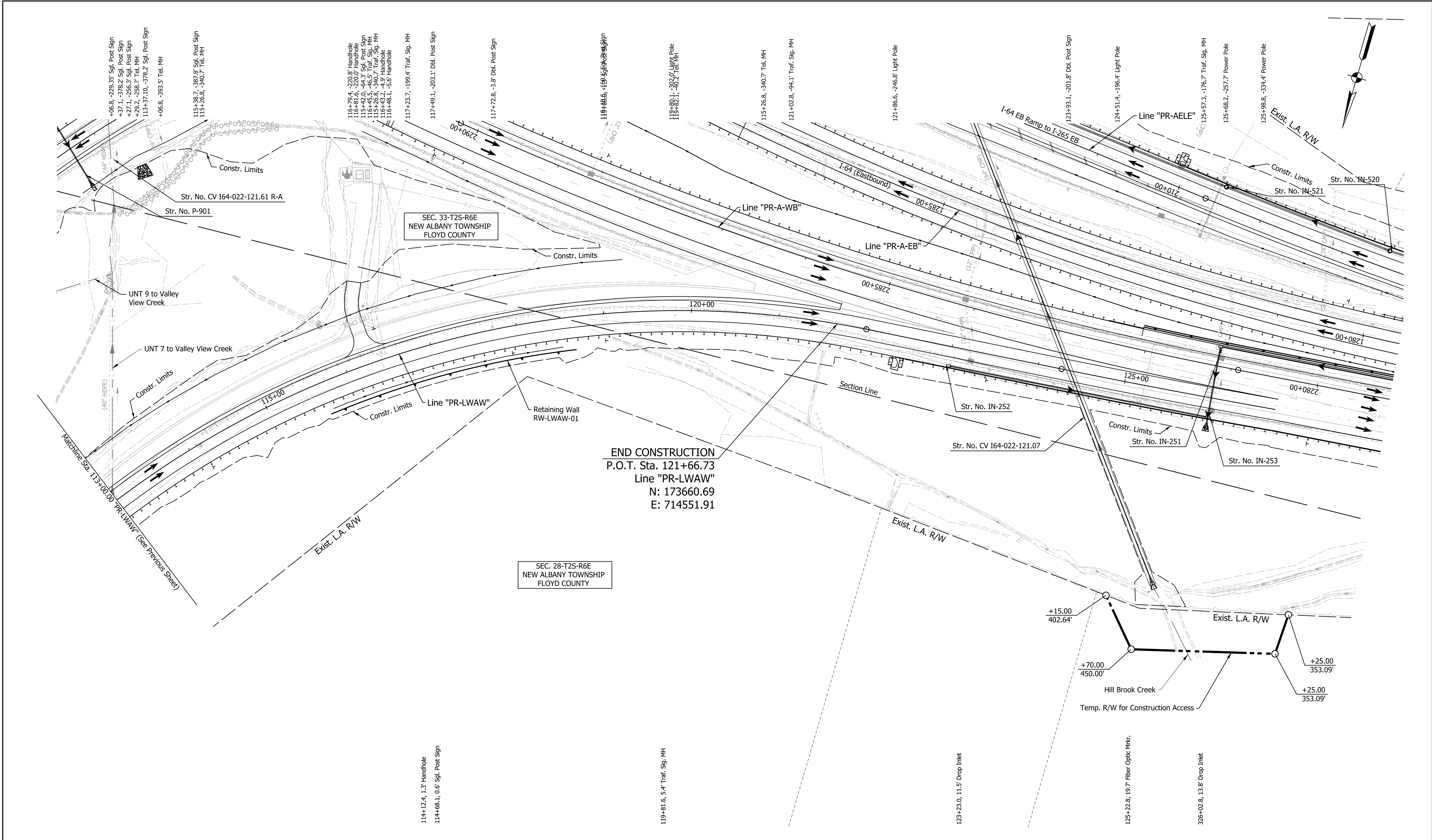
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| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: SGM            | DRAWN: RJS      |      |
| CHECKED: KRC             | CHECKED: KRC    |      |

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
  
**PLAN SHEET**  
**LINE "PR-LWAW"**  
**STA. 107+07 TO STA. 113+00**

|                  |             |
|------------------|-------------|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=50'           | N/A         |
| VERTICAL SCALE   | DESIGNATION |
| N/A              | 1900162     |
| SURVEY BOOK      | SHEETS      |
| ELECTRONIC       | 479 of 1273 |
| CONTRACT         | PROJECT     |
| R-42570          | 1900162     |

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END CONSTRUCTION  
 P.O.T. Sta. 121+66.73  
 Line "PR-LWAW"  
 N: 173660.69  
 E: 714551.91

SEC. 33-T25-R6E  
 NEW ALBANY TOWNSHIP  
 FLOYD COUNTY

SEC. 28-T25-R6E  
 NEW ALBANY TOWNSHIP  
 FLOYD COUNTY

Note:  
 For Geometric information see Geometric Layout Sheets  
 GEO-01 to GEO-13.

**DRAFT**  
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|--------------------------|-----------------|------|
| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: SGM            | DRAWN: RJS      |      |
| CHECKED: KRC             | CHECKED: KRC    |      |

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
  
 PLAN SHEET  
 LINE "PR-LWAW"  
 STA. 113+00 TO STA. 121+66.73

|                  |             |
|------------------|-------------|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=50'           | N/A         |
| VERTICAL SCALE   | DESIGNATION |
| N/A              | 1900162     |
| SURVEY BOOK      | SHEETS      |
| ELECTRONIC       | 481 of 1273 |
| CONTRACT         | PROJECT     |
| R-42570          | 1900162     |

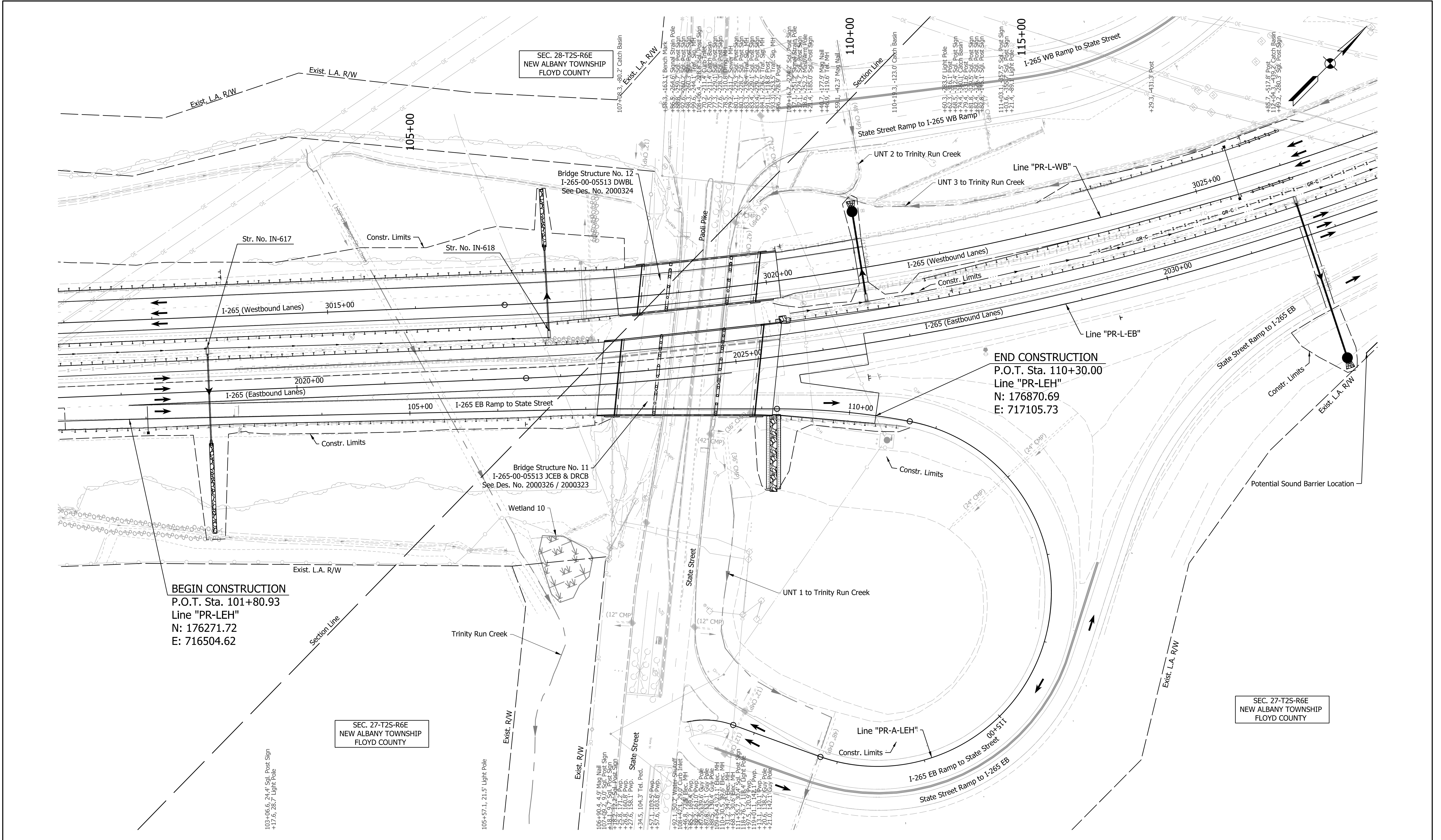








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**BEGIN CONSTRUCTION**  
 P.O.T. Sta. 101+80.93  
 Line "PR-LEH"  
 N: 176271.72  
 E: 716504.62

**END CONSTRUCTION**  
 P.O.T. Sta. 110+30.00  
 Line "PR-LEH"  
 N: 176870.69  
 E: 717105.73

SEC. 28-T25-R6E  
 NEW ALBANY TOWNSHIP  
 FLOYD COUNTY

SEC. 27-T25-R6E  
 NEW ALBANY TOWNSHIP  
 FLOYD COUNTY

SEC. 27-T25-R6E  
 NEW ALBANY TOWNSHIP  
 FLOYD COUNTY

Note:  
 For Geometric information see Geometric Layout Sheets  
 GEO-01 to GEO-13.

**DRAFT**  
 NOT FOR CONSTRUCTION

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|--------------------------|-----------------|------|
| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: SGM            | DRAWN: RJS      |      |
| CHECKED: KRC             | CHECKED: KRC    |      |

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
  
**PLAN SHEET**  
**LINE "PR-LEH"**  
**STA. 101+80.93 TO STA. 110+30**

|                  |             |
|------------------|-------------|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=50'           | N/A         |
| VERTICAL SCALE   | DESIGNATION |
| N/A              | 1900162     |
| SURVEY BOOK      | SHEETS      |
| ELECTRONIC       | 489 of 1273 |
| CONTRACT         | PROJECT     |
| R-42570          | 1900162     |

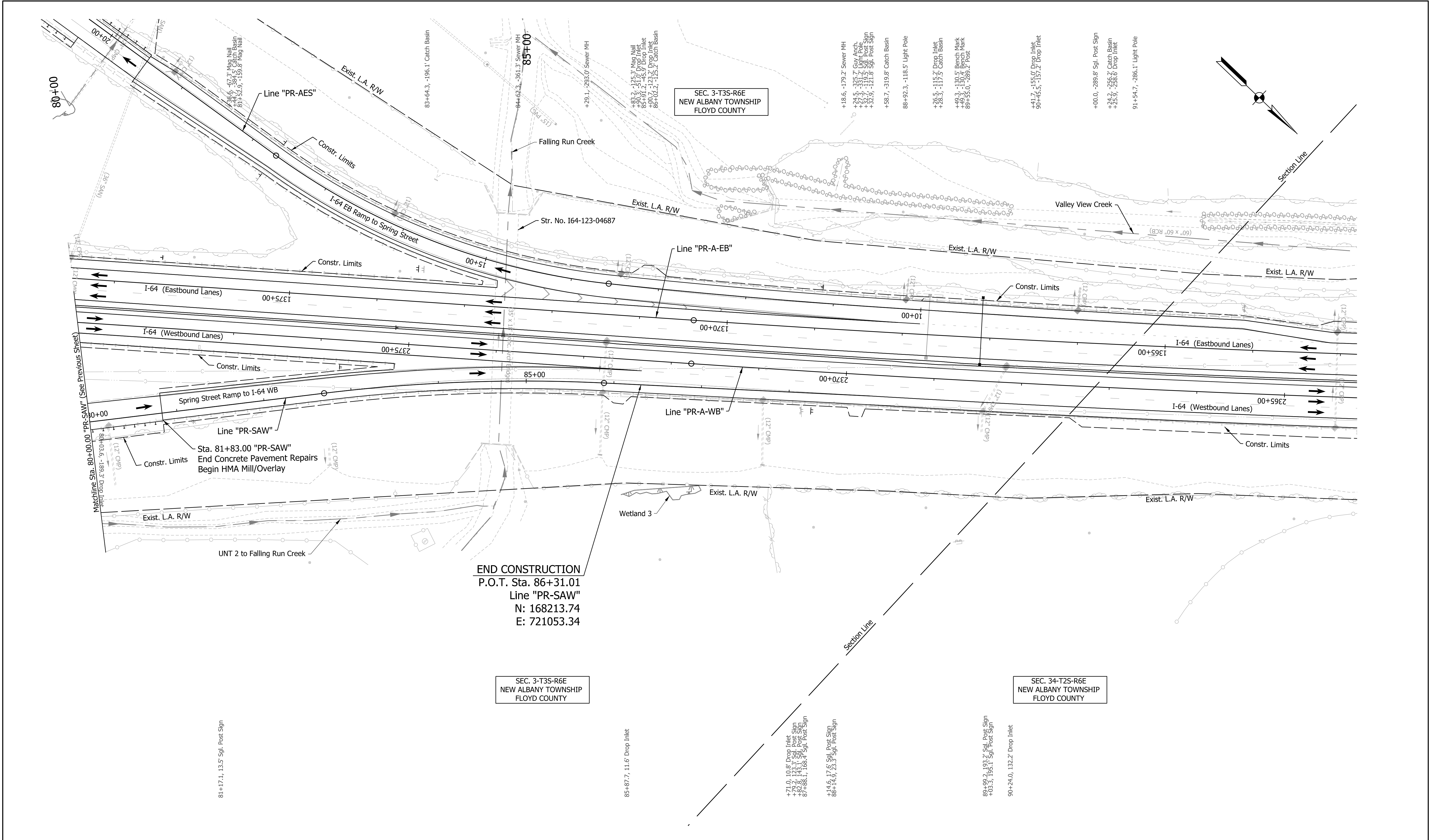








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**END CONSTRUCTION**  
 P.O.T. Sta. 86+31.01  
 Line "PR-SAW"  
 N: 168213.74  
 E: 721053.34

SEC. 3-T35-R6E  
 NEW ALBANY TOWNSHIP  
 FLOYD COUNTY

SEC. 34-T25-R6E  
 NEW ALBANY TOWNSHIP  
 FLOYD COUNTY

**Note:**  
 For Geometric information see Geometric Layout Sheets  
 GEO-01 to GEO-13.

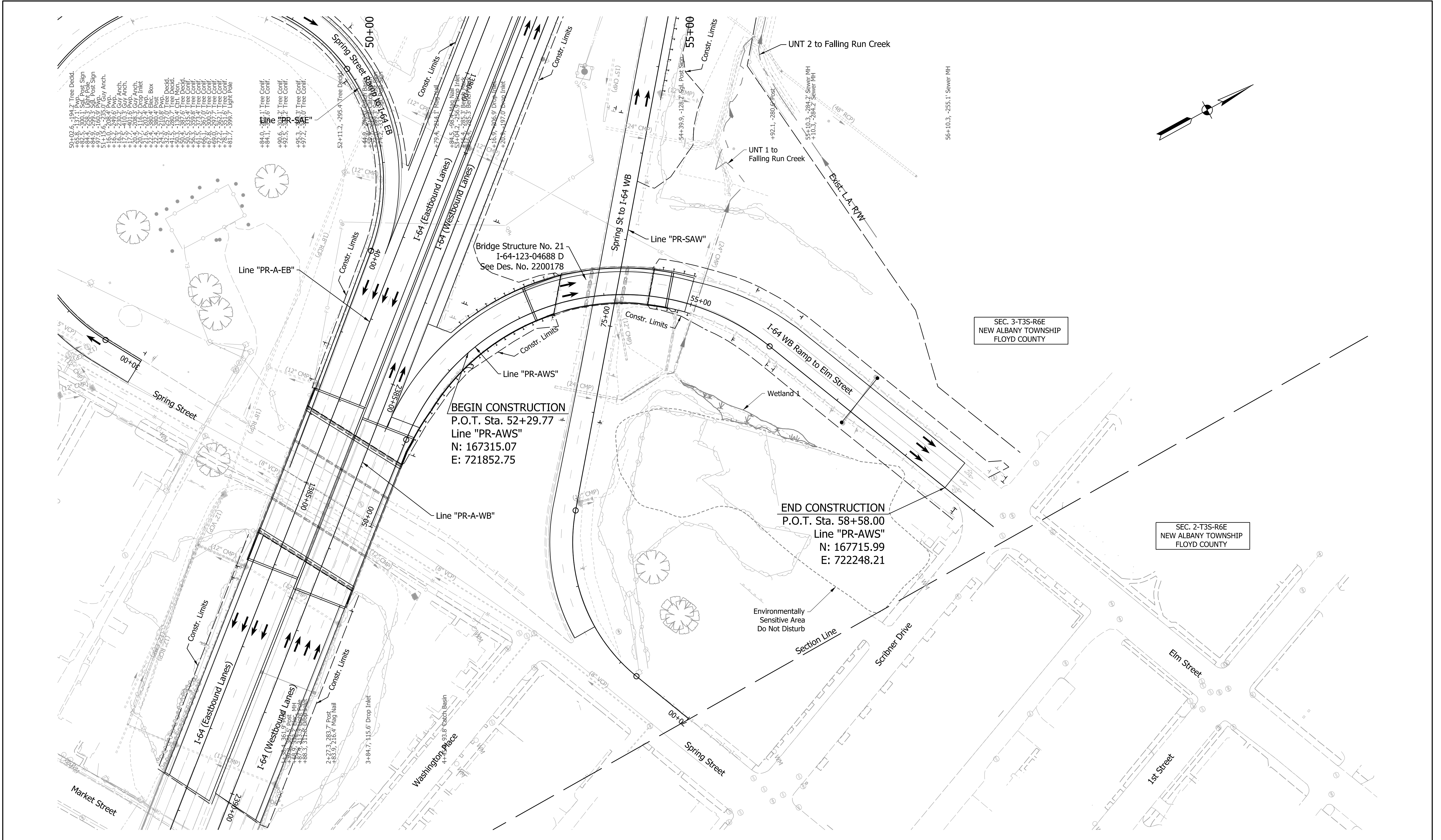
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 NOT FOR CONSTRUCTION

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|--------------------------|-----------------|------|
| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: SGM            | DRAWN: RJS      |      |
| CHECKED: KRC             | CHECKED: KRC    |      |

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
  
**PLAN SHEET**  
**LINE "PR-SAW"**  
**STA. 80+00 TO STA. 86+31.01**

|                  |             |
|------------------|-------------|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=50'           | N/A         |
| VERTICAL SCALE   | DESIGNATION |
| N/A              | 1900162     |
| SURVEY BOOK      | SHEETS      |
| ELECTRONIC       | 499 of 1273 |
| CONTRACT         | PROJECT     |
| R-42570          | 1900162     |

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Note:  
 For Geometric information see Geometric Layout Sheets  
 GEO-01 to GEO-13.

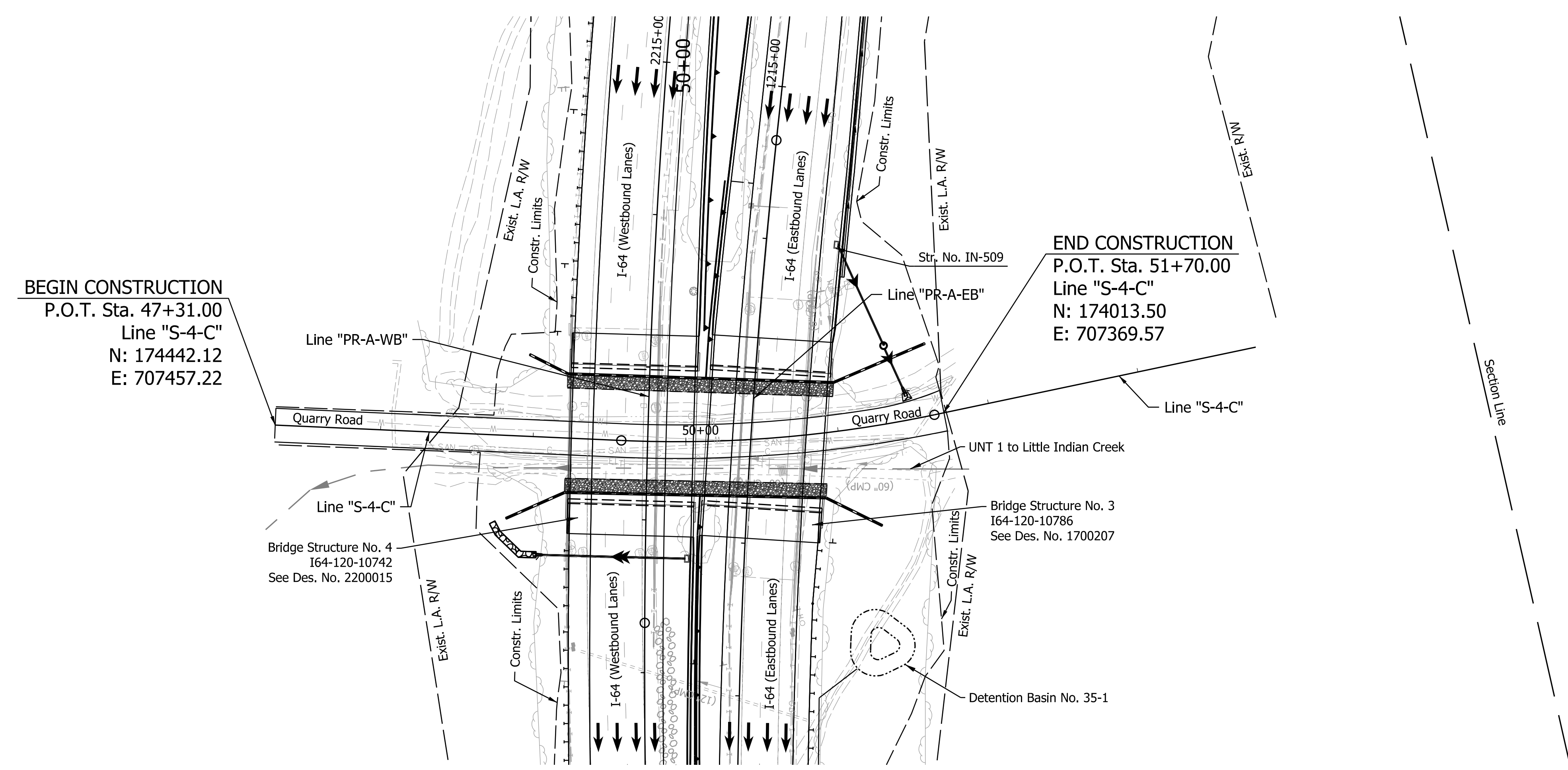
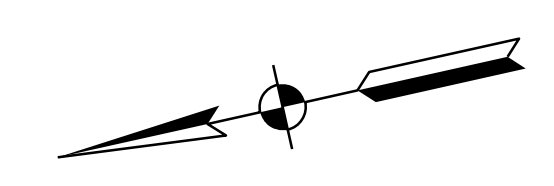
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 NOT FOR CONSTRUCTION

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|--------------------------|-----------------|------|
| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: SGM            | DRAWN: RJS      |      |
| CHECKED: KRC             | CHECKED: KRC    |      |

**INDIANA**  
**DEPARTMENT OF TRANSPORTATION**  
  
**PLAN SHEET**  
**LINE "PR-AWS"**  
**STA. 52+29.77 TO STA. 58+58**

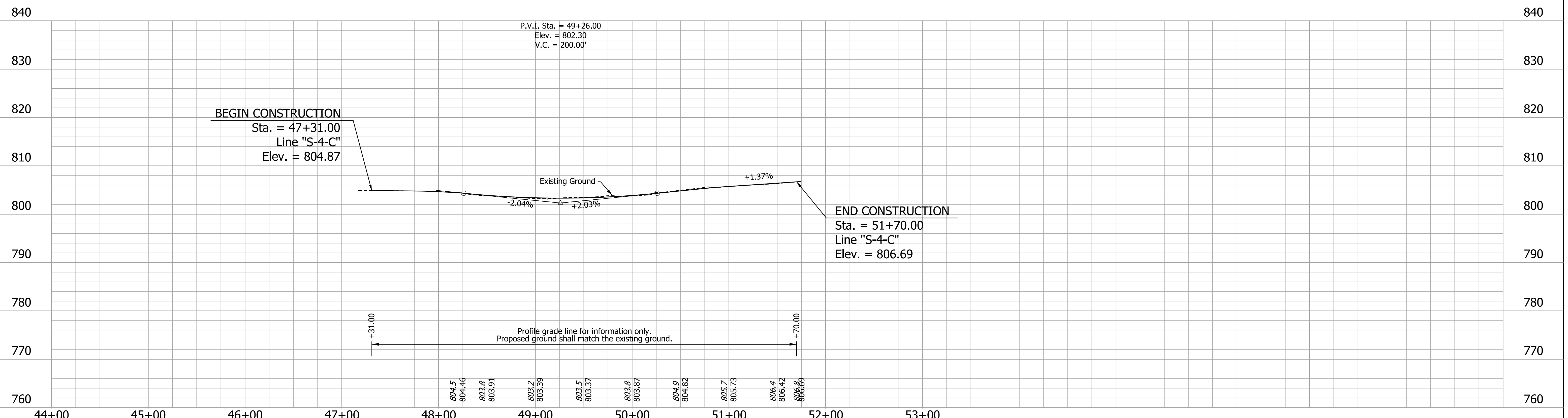
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| VERTICAL SCALE   | DESIGNATION |
| N/A              | 1900162     |
| SURVEY BOOK      | SHEETS      |
| ELECTRONIC       | 501 of 1273 |
| CONTRACT         | PROJECT     |
| R-42570          | 1900162     |





**BEGIN CONSTRUCTION**  
 P.O.T. Sta. 47+31.00  
 Line "S-4-C"  
 N: 174442.12  
 E: 707457.22

**END CONSTRUCTION**  
 P.O.T. Sta. 51+70.00  
 Line "S-4-C"  
 N: 174013.50  
 E: 707369.57



**BEGIN CONSTRUCTION**  
 Sta. = 47+31.00  
 Line "S-4-C"  
 Elev. = 804.87

**END CONSTRUCTION**  
 Sta. = 51+70.00  
 Line "S-4-C"  
 Elev. = 806.69

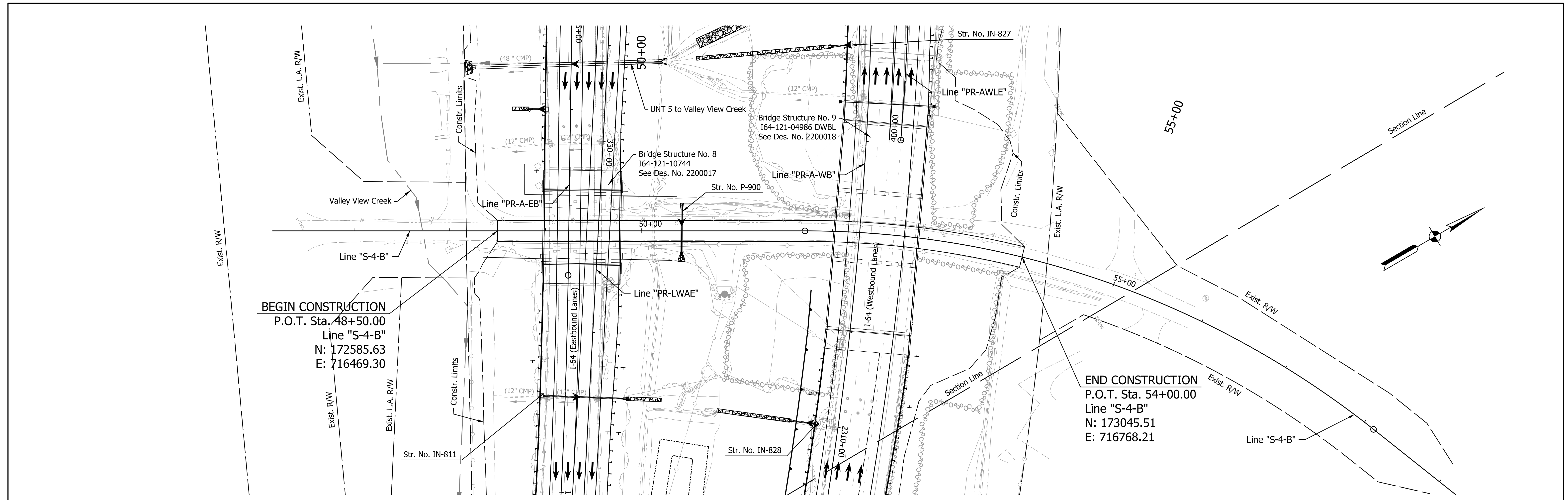
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**DRAFT**  
 NOT FOR CONSTRUCTION

|                                |                          |            |
|--------------------------------|--------------------------|------------|
| RECOMMENDED FOR APPROVAL _____ | DESIGN ENGINEER _____    | DATE _____ |
| DESIGNED: _____ SGM _____      | DRAWN: _____ RJS _____   |            |
| CHECKED: _____ KRC _____       | CHECKED: _____ KRC _____ |            |

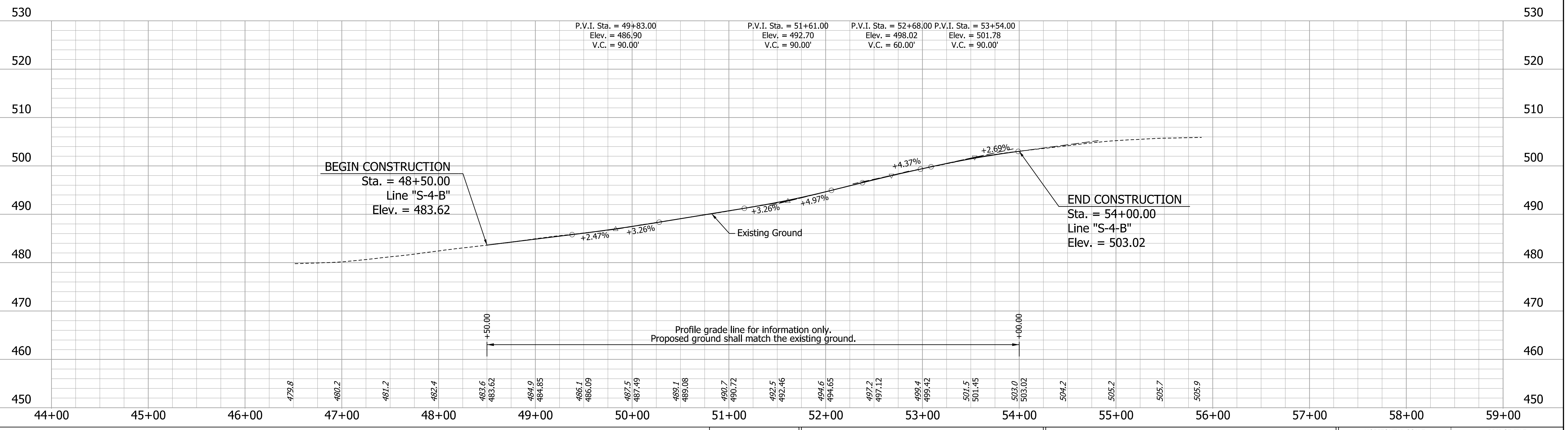
**INDIANA**  
**DEPARTMENT OF TRANSPORTATION**  
  
**PLAN SHEET**  
**LINE "S-4-C"**  
**STA. 47+31 TO STA. 51+70**

|                            |                        |
|----------------------------|------------------------|
| HORIZONTAL SCALE<br>1"=50' | BRIDGE FILE<br>N/A     |
| VERTICAL SCALE<br>1"=10'   | DESIGNATION<br>1900162 |
| SURVEY BOOK<br>ELECTRONIC  | SHEETS<br>503 of 1273  |
| CONTRACT<br>R-42570        | PROJECT<br>1900162     |



**BEGIN CONSTRUCTION**  
 P.O.T. Sta. 48+50.00  
 Line "S-4-B"  
 N: 172585.63  
 E: 716469.30

**END CONSTRUCTION**  
 P.O.T. Sta. 54+00.00  
 Line "S-4-B"  
 N: 173045.51  
 E: 716768.21



**BEGIN CONSTRUCTION**  
 Sta. = 48+50.00  
 Line "S-4-B"  
 Elev. = 483.62

**END CONSTRUCTION**  
 Sta. = 54+00.00  
 Line "S-4-B"  
 Elev. = 503.02

Profile grade line for information only.  
 Proposed ground shall match the existing ground.

rsthriegel  
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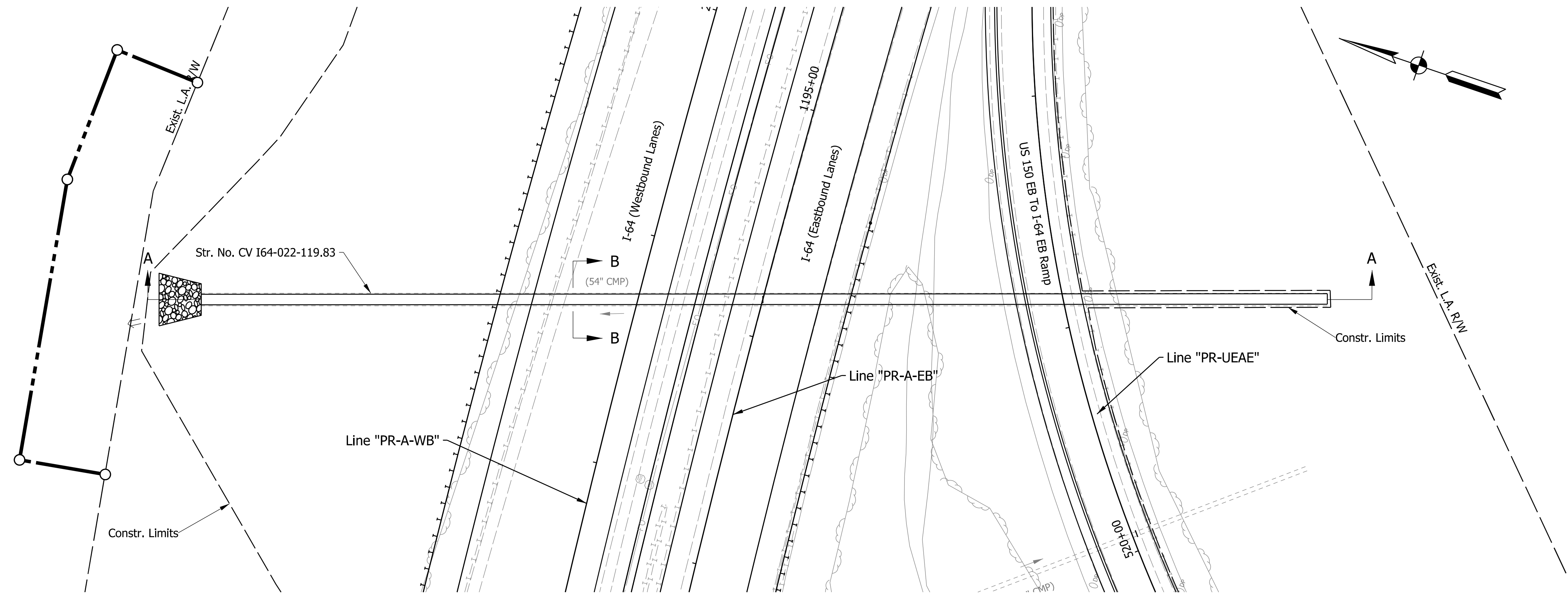
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 NOT FOR CONSTRUCTION

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| DESIGNED: _____ SGM _____      | DRAWN: _____ RJS _____   |            |
| CHECKED: _____ KRC _____       | CHECKED: _____ KRC _____ |            |

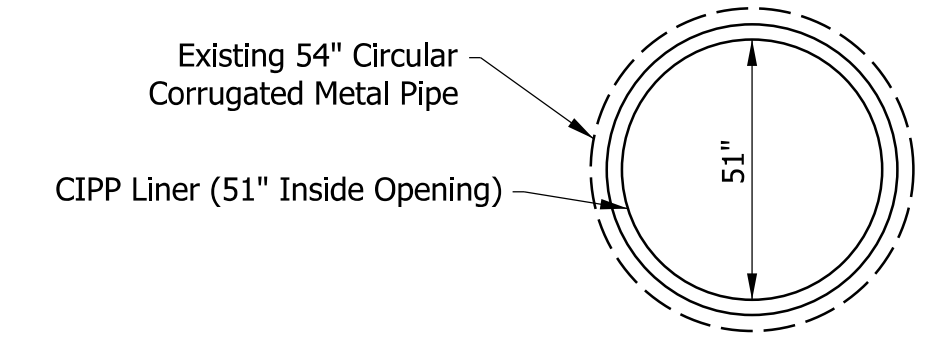
INDIANA  
 DEPARTMENT OF TRANSPORTATION

**PLAN SHEET**  
**LINE "S-4-B"**  
**STA. 48+50 TO STA. 54+00**

|                              |                        |
|------------------------------|------------------------|
| HORIZONTAL SCALE<br>1" = 50' | BRIDGE FILE<br>N/A     |
| VERTICAL SCALE<br>1" = 10'   | DESIGNATION<br>1900162 |
| SURVEY BOOK<br>ELECTRONIC    | SHEETS<br>504 of 1273  |
| CONTRACT<br>R-42570          | PROJECT<br>1900162     |



**PLAN**  
SCALE 1" = 30'

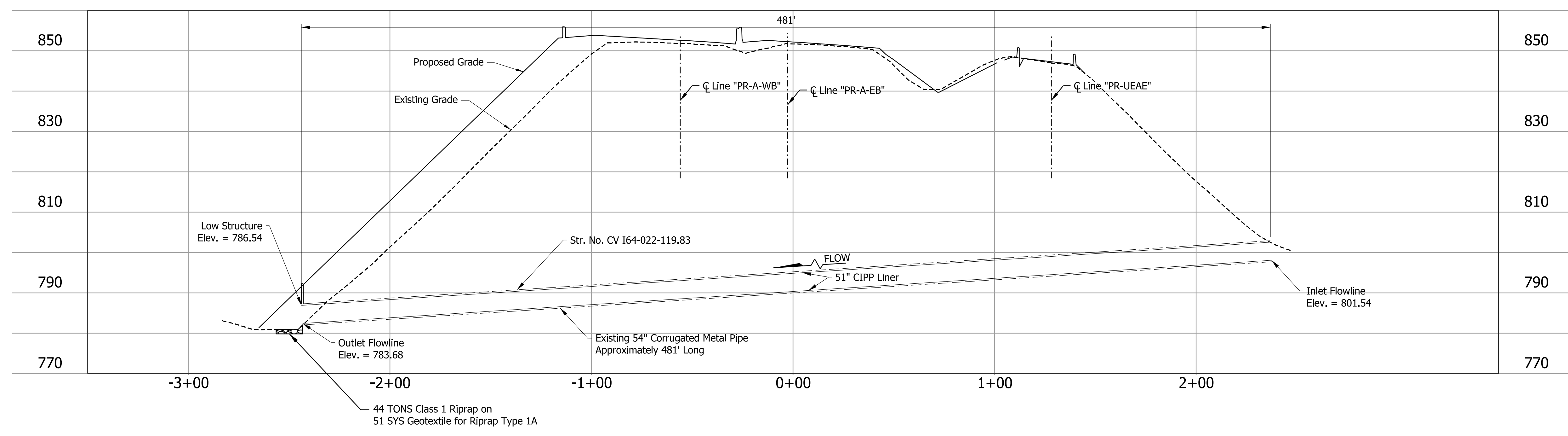


**SECTION B-B**  
N.T.S.

**HYDRAULIC DATA**

|                       |        |       |
|-----------------------|--------|-------|
| DRAINAGE AREA         | 384    | ACRES |
| Q100 DISCHARGE        | 76.10  | CFS   |
| Q100 ELEVATION        | 783.65 | FT    |
| Q100 HEADWATER        | 801.75 | FT    |
| BACKWATER             | 2.07   | FT    |
| 2% EP OUTLET VELOCITY | 18.47  | FPS   |

**EXISTING STRUCTURE**  
EXISTING 54" CORRUGATED METAL PIPE, APPROXIMATELY 481' LONG, TO BE LINED



**SECTION A-A**  
SCALE 1" = 30' H  
SCALE 1" = 15' V

|  |   |  |
|--|---|--|
| <b>NOTE TO REVIEWER</b><br>Headwall to be designed in future submittals. | <b>NOTE TO REVIEWER</b><br>Pipe Liner type and size to be refined in future submittals. | <b>NOTE TO REVIEWER</b><br>Riprap aprons and energy dissipaters to be designed and refined in future submittals. |
|--|---|--|

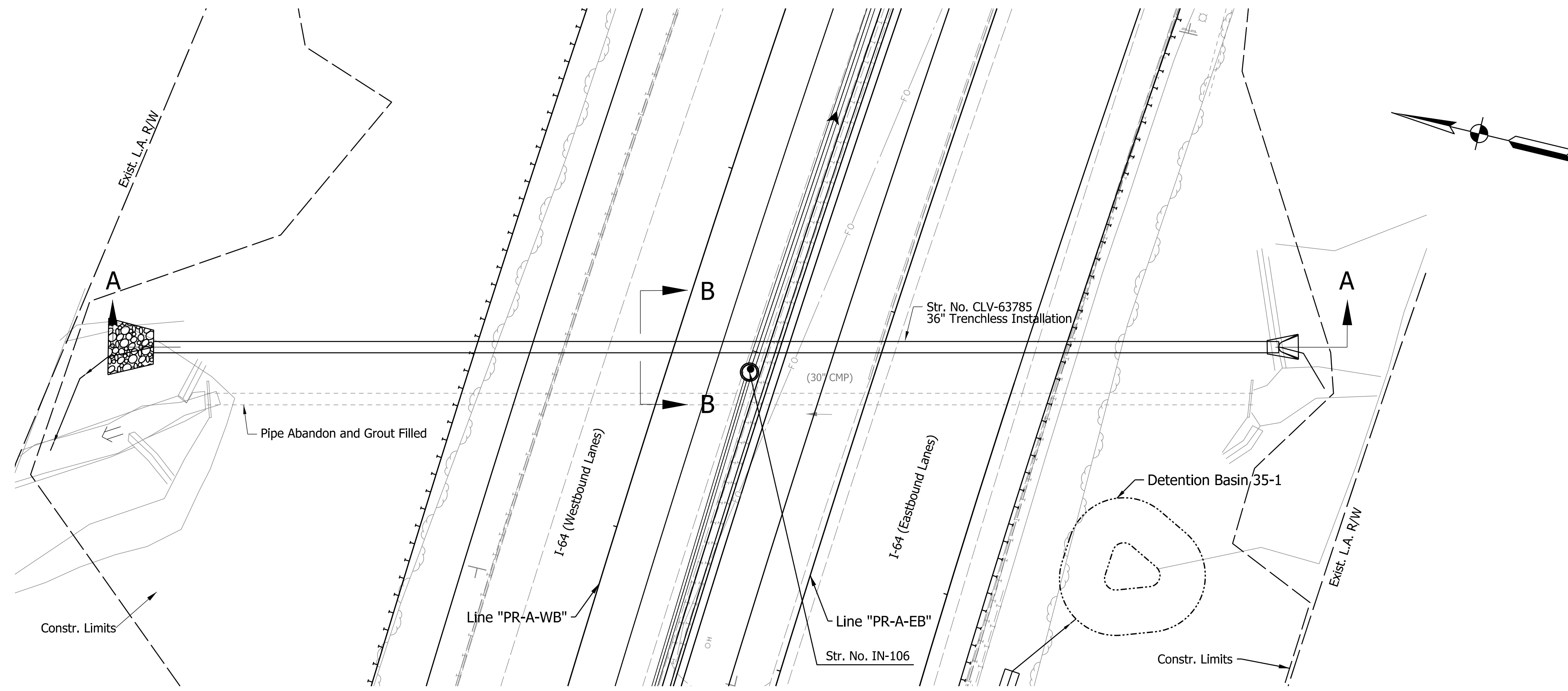
**DRAFT**  
NOT FOR CONSTRUCTION

|                                |                       |            |
|--------------------------------|-----------------------|------------|
| RECOMMENDED FOR APPROVAL _____ | DESIGN ENGINEER _____ | DATE _____ |
| DESIGNED: SAD                  | DRAWN: JP             |            |
| CHECKED: JMB                   | CHECKED: JMB          |            |

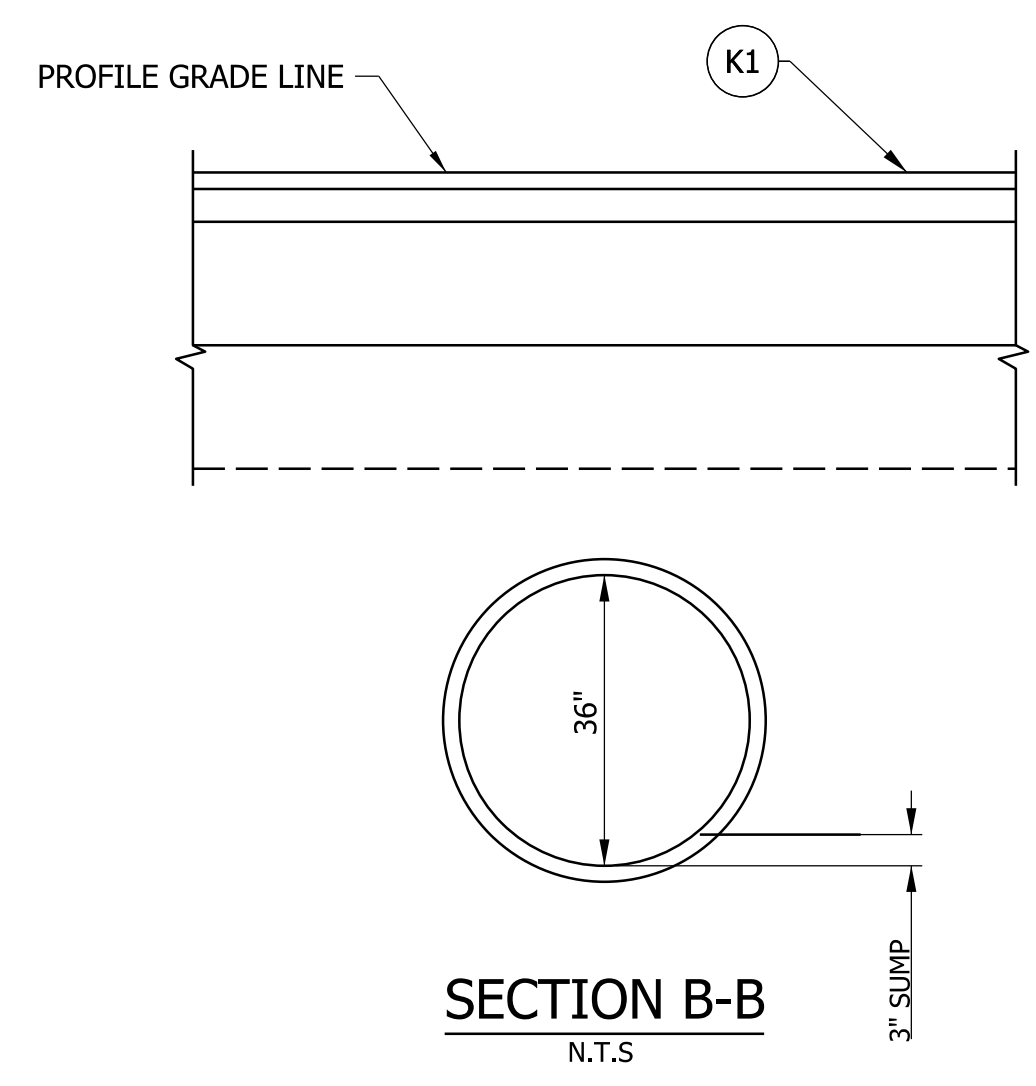
INDIANA DEPARTMENT OF TRANSPORTATION  
**SMALL STRUCTURE DETAIL**  
CV 164-022-119.83

|                  |               |
|------------------|---------------|
| HORIZONTAL SCALE | BRIDGE FILE   |
| 1"=30'           | N/A           |
| VERTICAL SCALE   | DESIGNATION   |
| 1"=15'           | 1900162       |
| SURVEY BOOK      | SHEETS SSD-01 |
| ELECTRONIC       | 618 of 1273   |
| CONTRACT         | PROJECT       |
| R-42570          | 1900162       |

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**PLAN**  
SCALE 1" = 20'



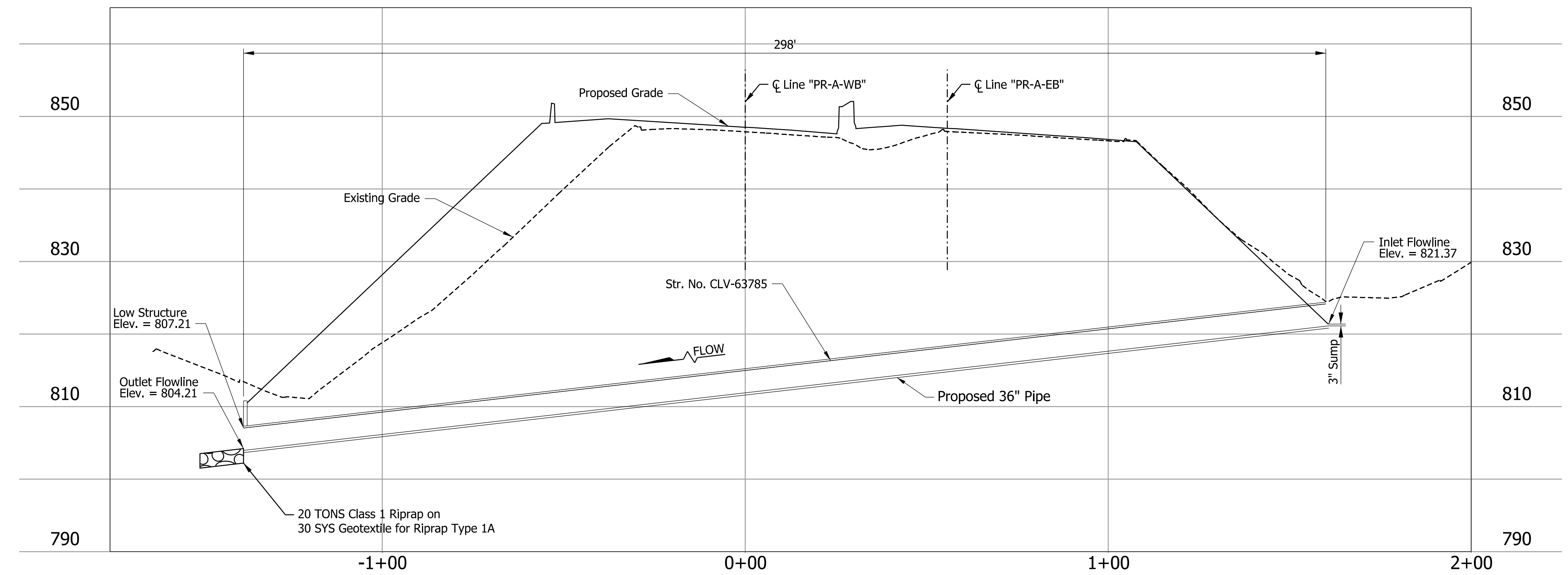
**HYDRAULIC DATA**

|                       |        |       |
|-----------------------|--------|-------|
| DRAINAGE AREA         | 6.21   | ACRES |
| Q100 DISCHARGE        | 17.30  | CFS   |
| Q100 ELEVATION        | 802.58 | FT    |
| Q100 HEADWATER        | 824.54 | FT    |
| BACKWATER             | 0.69   | FT    |
| 2% EP OUTLET VELOCITY | 12.37  | FPS   |

**EXISTING STRUCTURE**

EXISTING 30" CORRUGATED METAL PIPE, APPROXIMATELY 279' LONG, TO BE GROUT FILLED

(K1) 220 #/Syd. QC/QA-HMA, 4, 76, Surface 12.5 mm - SMA [410-09530]  
 Variable Depth Minimum 220 #/Syd. QC/QA-HMA, 4, 76, Intermediate, 12.5 mm  
 1320 #/Syd. QC/QA-HMA, 4, 64, Base, 25.0 mm  
 300 #/Syd. QC/QA-HMA, 4, 76, Intermediate, OG 19.0mm  
 6 in. of Compacted Aggregate, No. 53 on  
 Geotextile for Subgrade, Type 2B  
 Subgrade Treatment Type IC



**SECTION A-A**  
SCALE 1" = 20' H  
SCALE 1" = 10' V

**NOTE TO REVIEWER**  
Pavement design to be updated upon approval.

**NOTE TO REVIEWER**  
Bore Pits for trenchless pipe install to be shown in future submittals

**NOTE TO REVIEWER**  
Riprap aprons and energy dissipaters to be designed and refined in future submittals.

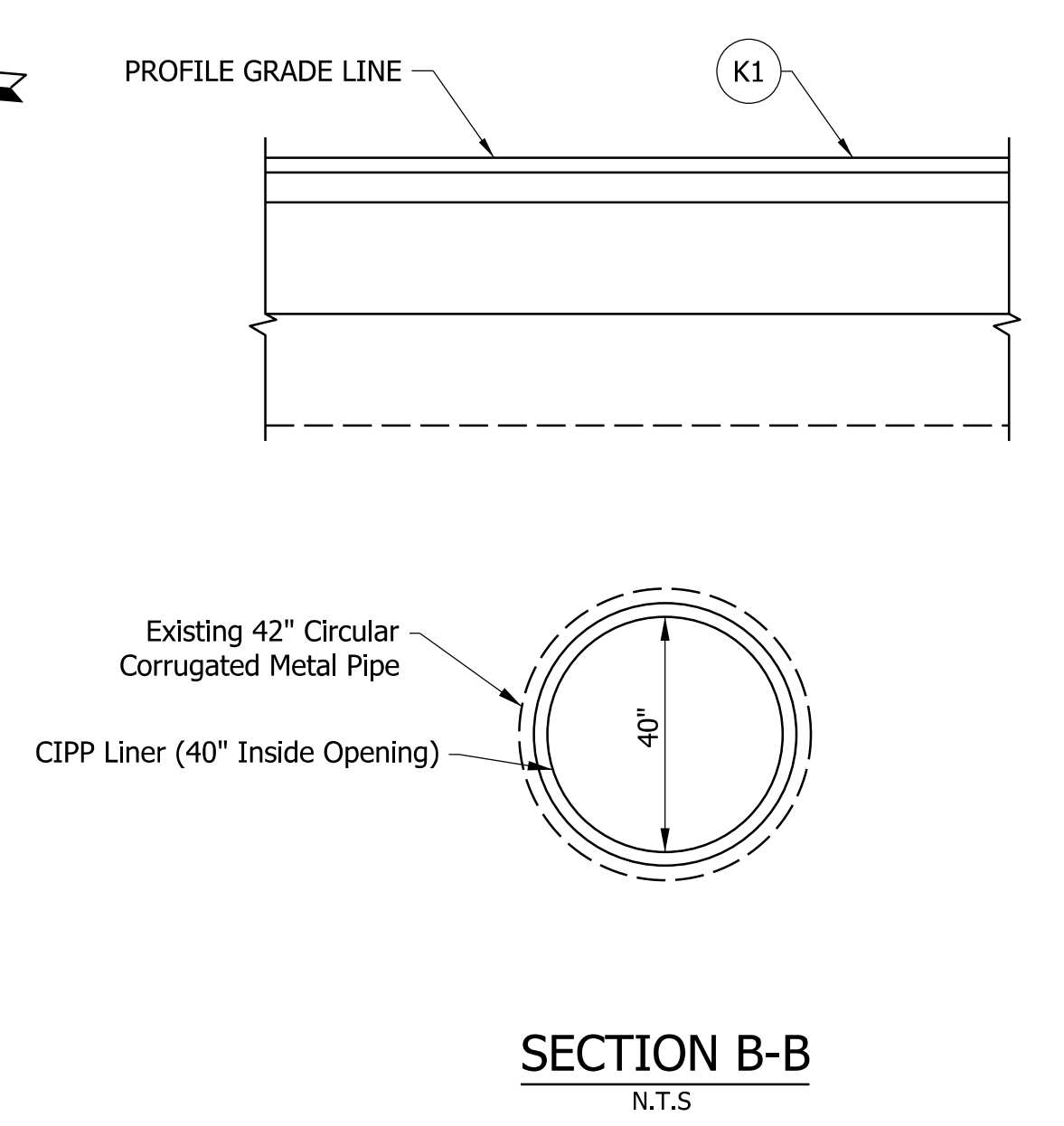
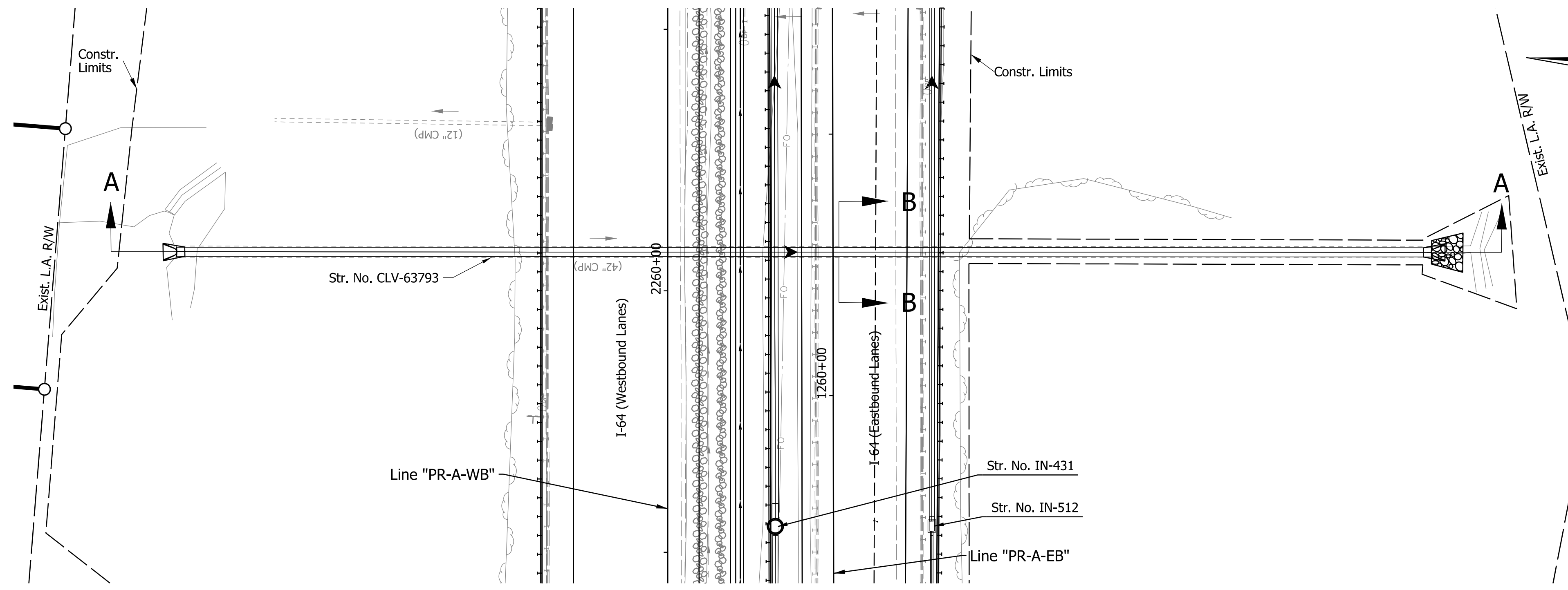
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NOT FOR CONSTRUCTION

|                          |                 |      |
|--------------------------|-----------------|------|
| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: SAD            | DRAWN: JP       |      |
| CHECKED: JMB             | CHECKED: JMB    |      |

INDIANA DEPARTMENT OF TRANSPORTATION  
**SMALL STRUCTURE DETAIL**  
CLV-63785

|                  |               |
|------------------|---------------|
| HORIZONTAL SCALE | BRIDGE FILE   |
| 1"=20'           | N/A           |
| VERTICAL SCALE   | DESIGNATION   |
| 1"=10'           | 1900162       |
| SURVEY BOOK      | SHEETS SSD-02 |
| ELECTRONIC       | 619 of 1273   |
| CONTRACT         | PROJECT       |
| R-42570          | 1900162       |

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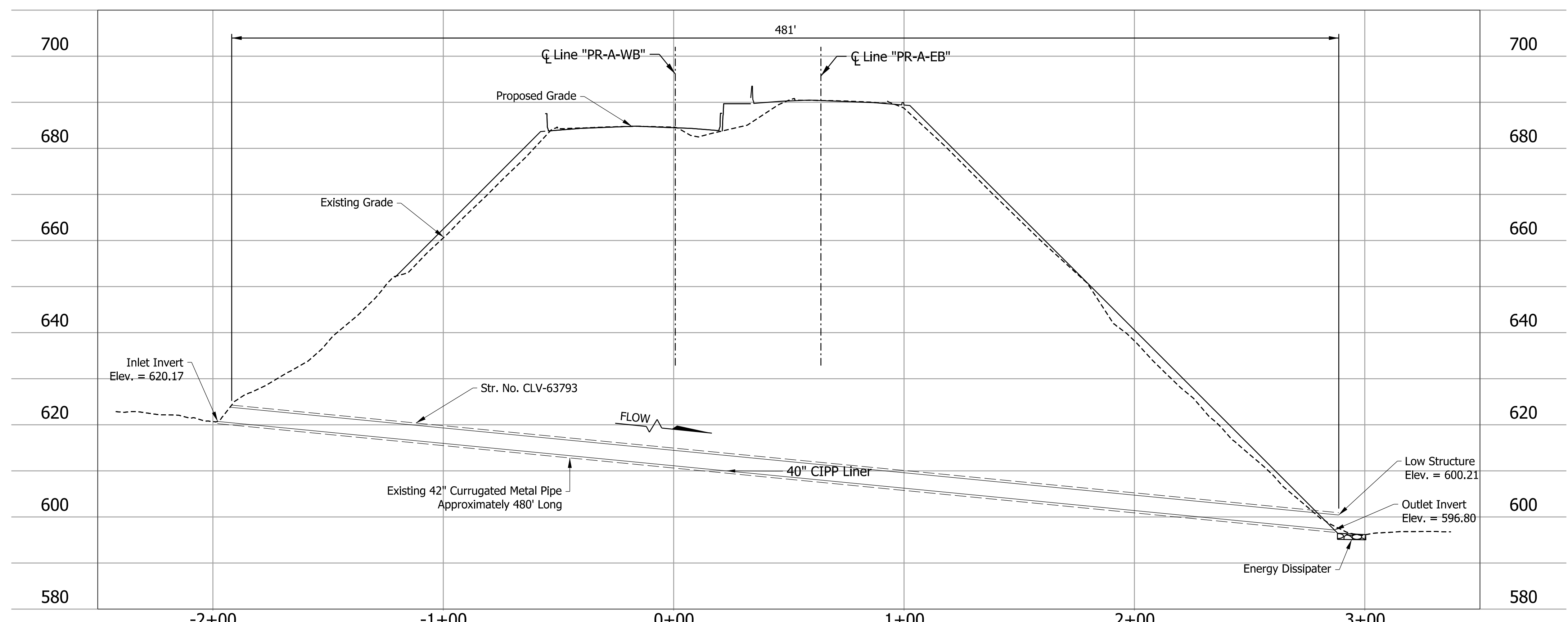
HYDRAULIC DATA

|                       |        |       |
|-----------------------|--------|-------|
| DRAINAGE AREA         | 69.6   | ACRES |
| Q100 DISCHARGE        | 212    | CFS   |
| Q100 ELEVATION        | 599.39 | FT    |
| Q100 HEADWATER        | 652.56 | FT    |
| BACKWATER             | 28.89  | FT    |
| 2% EP OUTLET VELOCITY | 22.39  | FPS   |

EXISTING STRUCTURE

EXISTING 42" CORRUGATED METAL PIPE, APPROXIMATELY 480' LONG, TO BE LINED

K1  
220 #/Syd. QC/QA-HMA, 4, 76, Surface 12.5 mm - SMA [410-09530]  
Variable Depth Minimum 220 #/Syd. QC/QA-HMA, 4, 76, Intermediate, 12.5 mm  
1320 #/Syd. QC/QA-HMA, 4, 64, Base, 25.0 mm  
300 #/Syd. QC/QA-HMA, 4, 76, Intermediate, OG 19.0mm  
6 in. of Compacted Aggregate, No. 53 on  
Geotextile for Subgrade, Type 2B  
Subgrade Treatment Type IC



**NOTE TO REVIEWER**  
Headwall to be refined in future submittals.

**NOTE TO REVIEWER**  
Pipe Liner type and size to be refined in future submittals.

**NOTE TO REVIEWER**  
Riprap aprons and energy dissipaters to be designed and refined in future submittals.

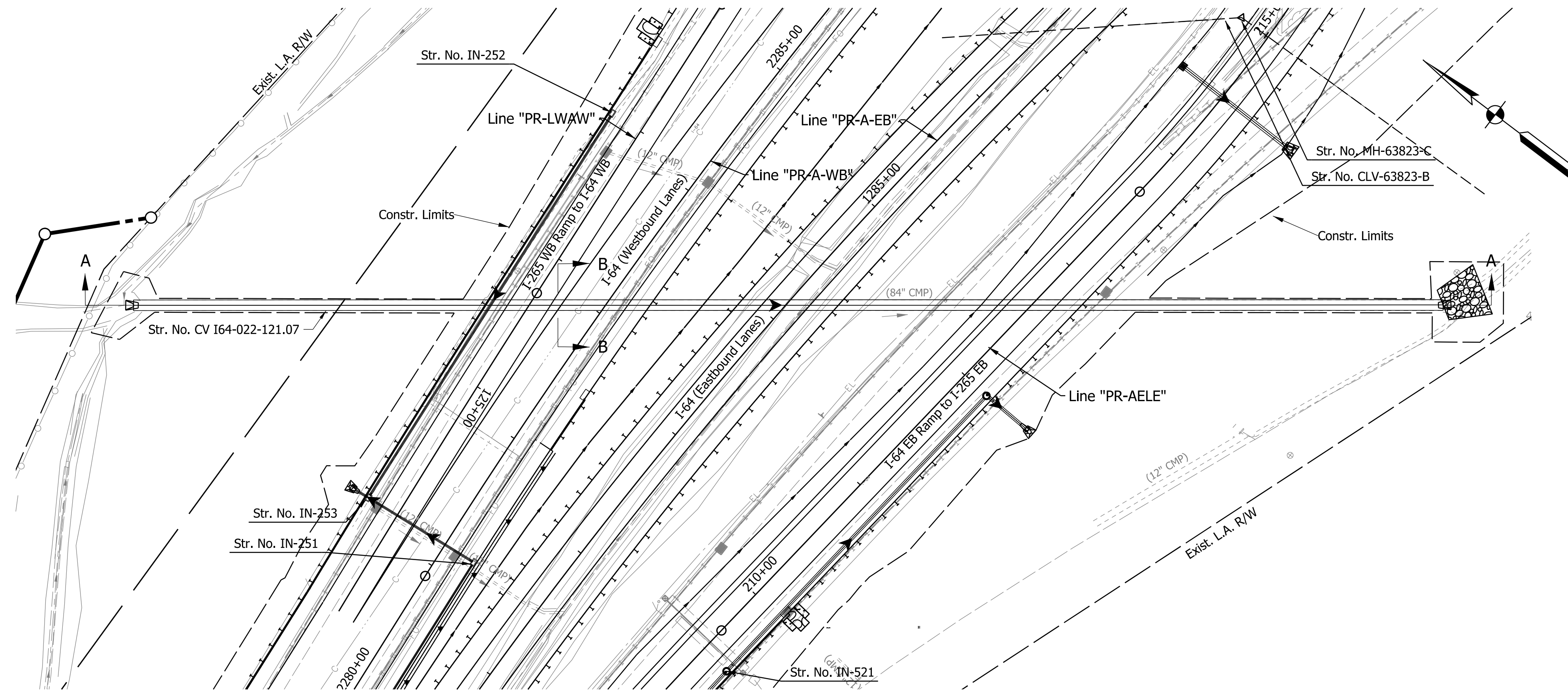
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NOT FOR CONSTRUCTION

|                          |                 |      |
|--------------------------|-----------------|------|
| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: JME            | DRAWN: KCM      |      |
| CHECKED: MCS             | CHECKED: MCS    |      |

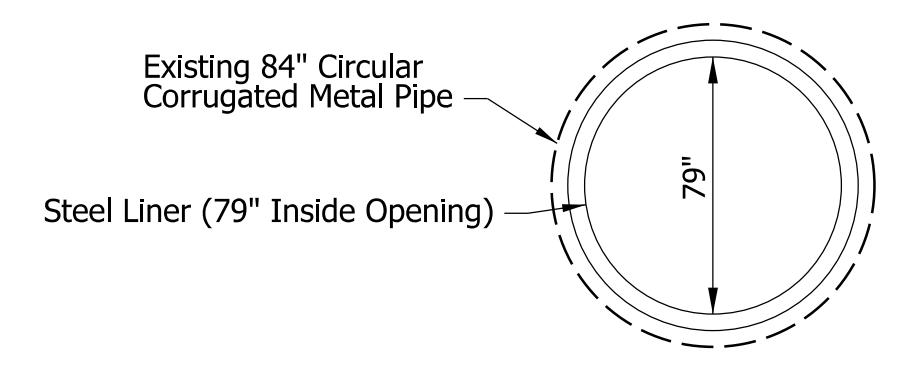
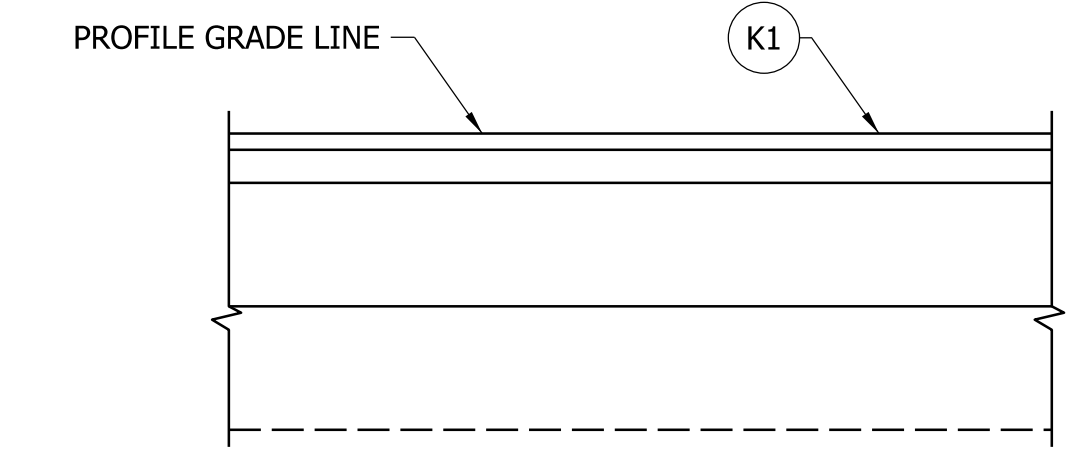
INDIANA DEPARTMENT OF TRANSPORTATION  
SMALL STRUCTURE DETAIL  
CLV-63793

|                  |               |
|------------------|---------------|
| HORIZONTAL SCALE | BRIDGE FILE   |
| 1"=30'           | N/A           |
| VERTICAL SCALE   | DESIGNATION   |
| 1"=15'           | 1900162       |
| SURVEY BOOK      | SHEETS SSD-03 |
| ELECTRONIC       | 620 of 1273   |
| CONTRACT         | PROJECT       |
| R-42570          | 1900162       |

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**PLAN**  
SCALE 1" = 50'



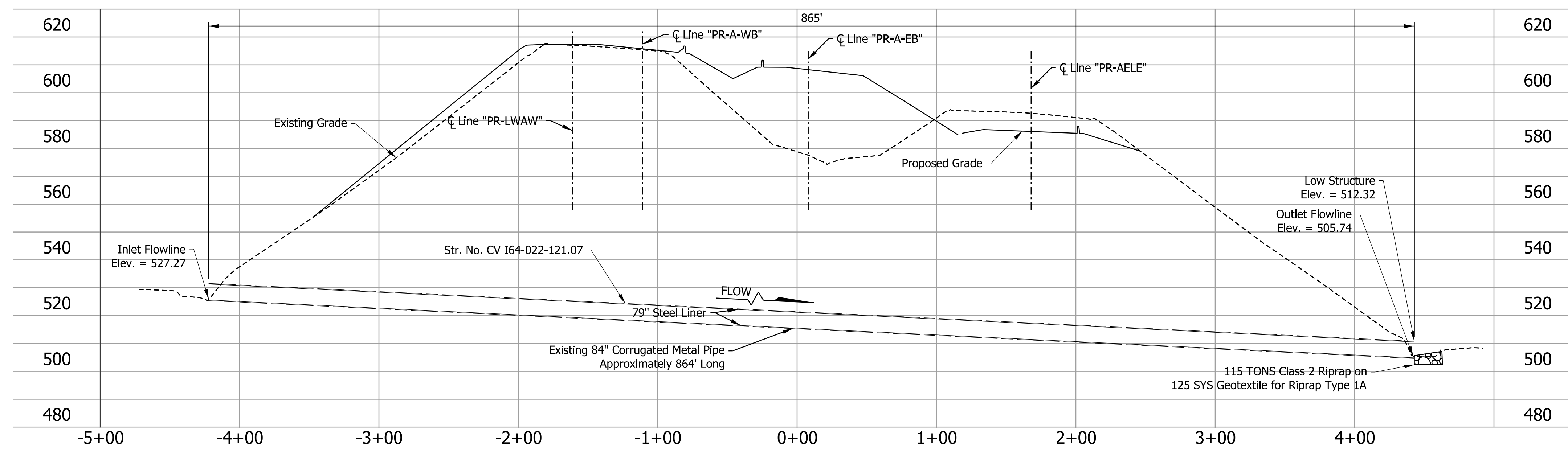
**SECTION B-B**  
N.T.S.

**HYDRAULIC DATA**

|                       |        |       |
|-----------------------|--------|-------|
| DRAINAGE AREA         | 179.86 | ACRES |
| Q100 DISCHARGE        | 529    | CFS   |
| Q100 ELEVATION        | 509.14 | FT    |
| Q100 HEADWATER        | 540.12 | FT    |
| BACKWATER             | 7.57   | FT    |
| 2% EP OUTLET VELOCITY | 28.0   | FPS   |

**EXISTING STRUCTURE**

EXISTING 84" CORRUGATED METAL PIPE, APPROXIMATELY 864' LONG, TO BE LINED



**SECTION A-A**  
SCALE 1" = 50' H  
SCALE 1" = 25' V

K1  
220 #/Syd. QC/QA-HMA, 4, 76, Surface 12.5 mm - SMA [410-09530]  
Variable Depth Minimum 220 #/Syd. QC/QA-HMA, 4, 76, Intermediate, 12.5 mm  
1320 #/Syd. QC/QA-HMA, 4, 64, Base, 25.0 mm  
300 #/Syd. QC/QA-HMA, 4, 76, Intermediate, OG 19.0mm  
6 in. of Compacted Aggregate, No. 53 on  
Geotextile for Subgrade, Type 2B  
Subgrade Treatment Type 1C

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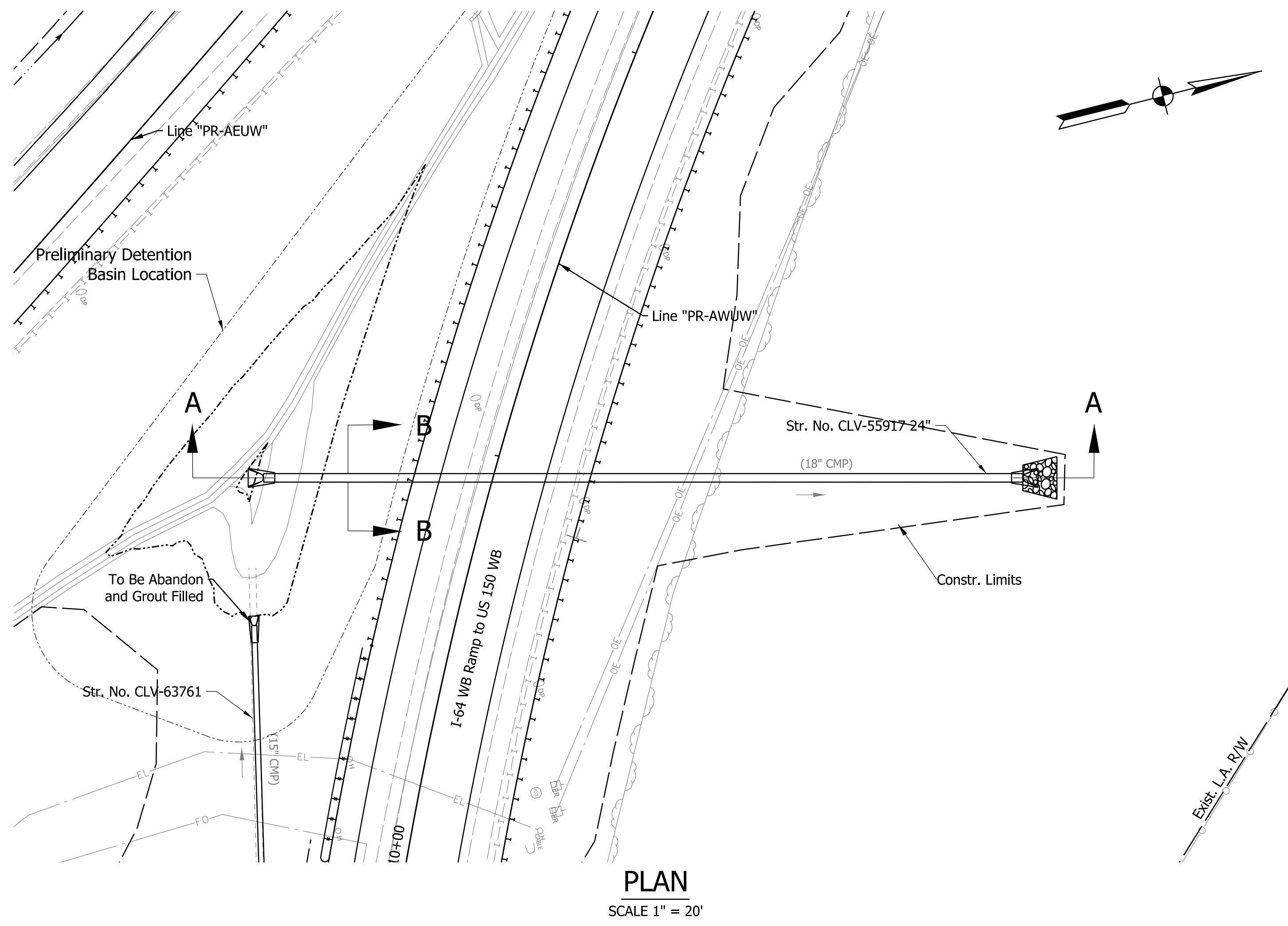
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|--|--|--|
| <b>NOTE TO REVIEWER</b>                      | <b>NOTE TO REVIEWER</b>                                      | <b>NOTE TO REVIEWER</b>  |
| Headwall to be refined in future submittals. | Pipe Liner type and size to be refined in future submittals. | Details for repairs to Gabion Baskets to be designed and refined in future submittals. |

**DRAFT**  
NOT FOR CONSTRUCTION

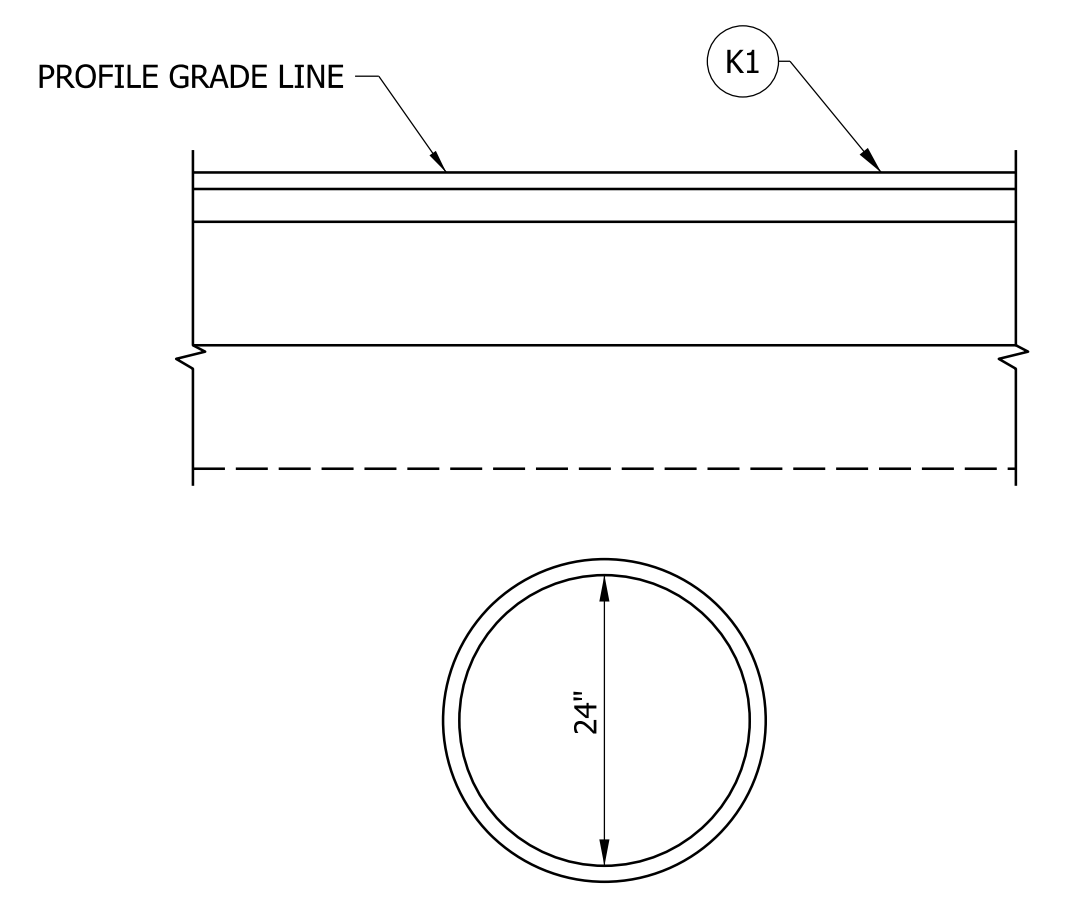
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| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: JME            | DRAWN: KCM      |      |
| CHECKED: MCS             | CHECKED: MCS    |      |

INDIANA DEPARTMENT OF TRANSPORTATION  
**SMALL STRUCTURE DETAIL**  
CV 164-022-121.07

|                  |             |         |
|------------------|-------------|---------|
| HORIZONTAL SCALE | BRIDGE FILE |         |
| 1"=50'           | N/A         |         |
| VERTICAL SCALE   | DESIGNATION |         |
| 1"=25'           | 1900162     |         |
| SURVEY BOOK      | SHEETS      | SSD-04  |
| ELECTRONIC       | 621         | of 1273 |
| CONTRACT         | PROJECT     |         |
| R-42570          | 1900162     |         |



**PLAN**  
SCALE 1" = 20'



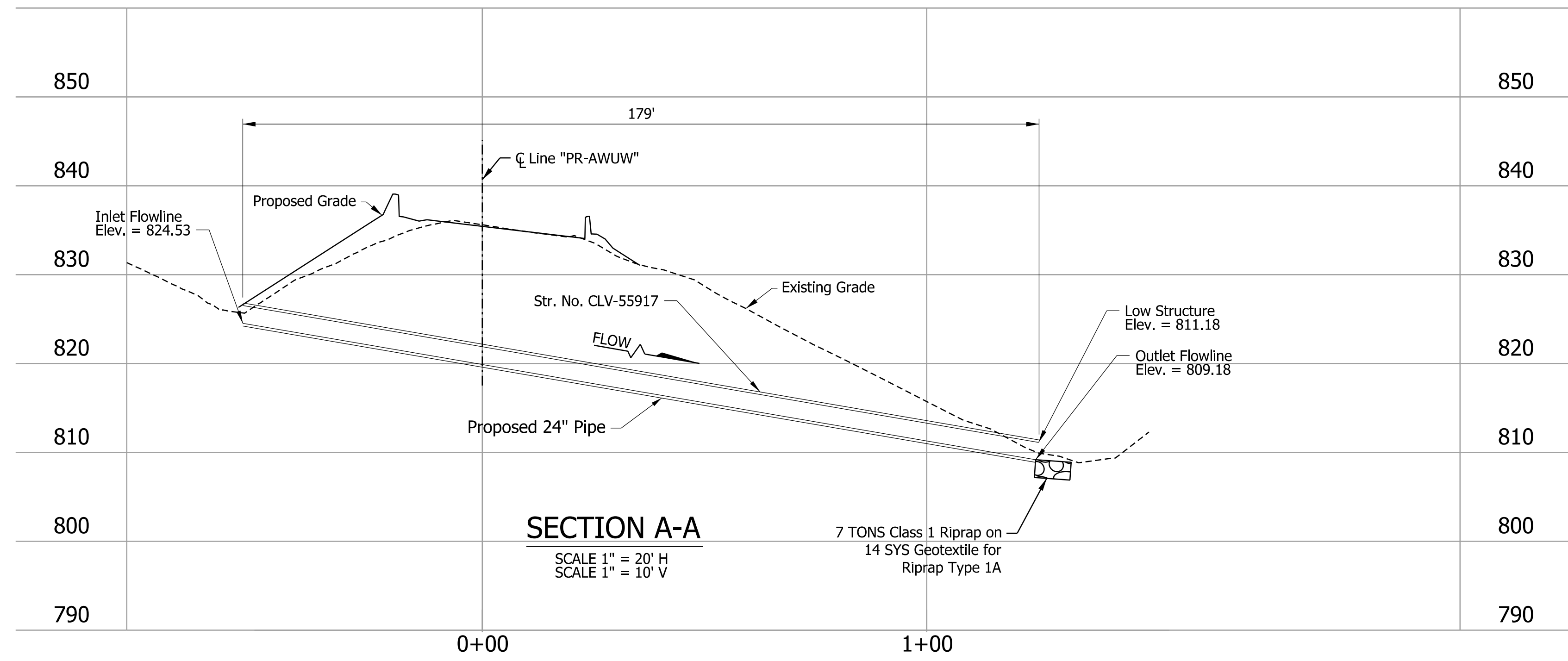
**SECTION B-B**  
N.T.S

**HYDRAULIC DATA**

|                       |        |       |
|-----------------------|--------|-------|
| DRAINAGE AREA         | 1.85   | ACRES |
| Q100 DISCHARGE        | 8.0    | CFS   |
| Q100 ELEVATION        | 809.70 | FT    |
| Q100 HEADWATER        | 825.93 | FT    |
| BACKWATER             | 1.92   | FT    |
| 2% EP OUTLET VELOCITY | 15.6   | FPS   |

**EXISTING STRUCTURE**

EXISTING 18" CORRUGATED METAL PIPE, APPROXIMATELY 179' LONG, TO BE GROUT AND FILLED



**SECTION A-A**  
SCALE 1" = 20' H  
SCALE 1" = 10' V

(K1) 220 #/Syd. QC/QA-HMA, 4, 76, Surface 12.5 mm - SMA [410-09530]  
Variable Depth Minimum 220 #/Syd. QC/QA-HMA, 4, 76, Intermediate, 12.5 mm  
1320 #/Syd. QC/QA-HMA, 4, 64, Base, 25.0 mm  
300 #/Syd. QC/QA-HMA, 4, 76, Intermediate, OG 19.0mm  
6 in. of Compacted Aggregate, No. 53 on  
Geotextile for Subgrade, Type 2B  
Subgrade Treatment Type IC

**NOTE TO REVIEWER**  
Pavement design to be updated upon approval.

**NOTE TO REVIEWER**  
Riprap aprons and energy dissipaters to be designed and refined in future submittals.

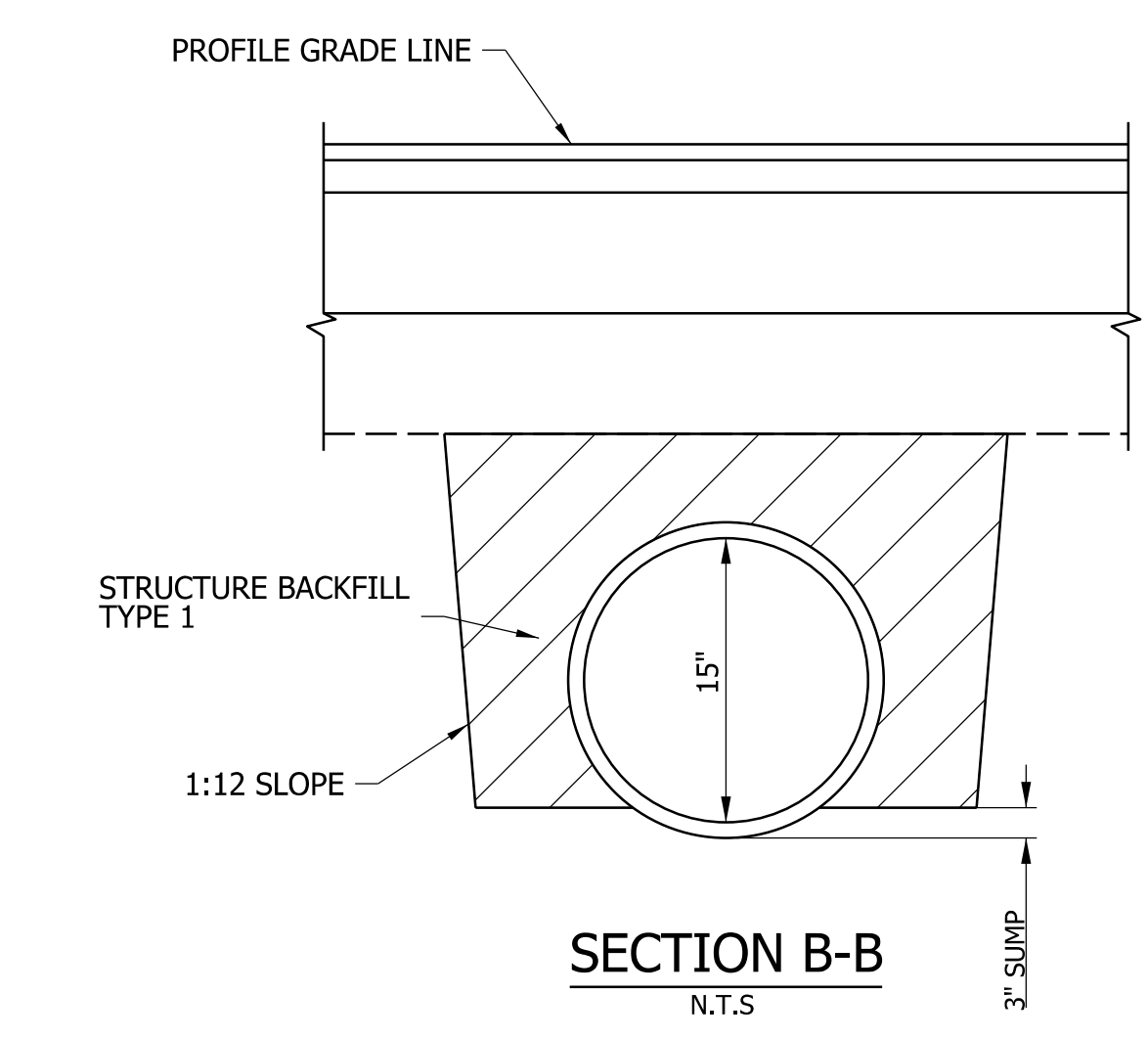
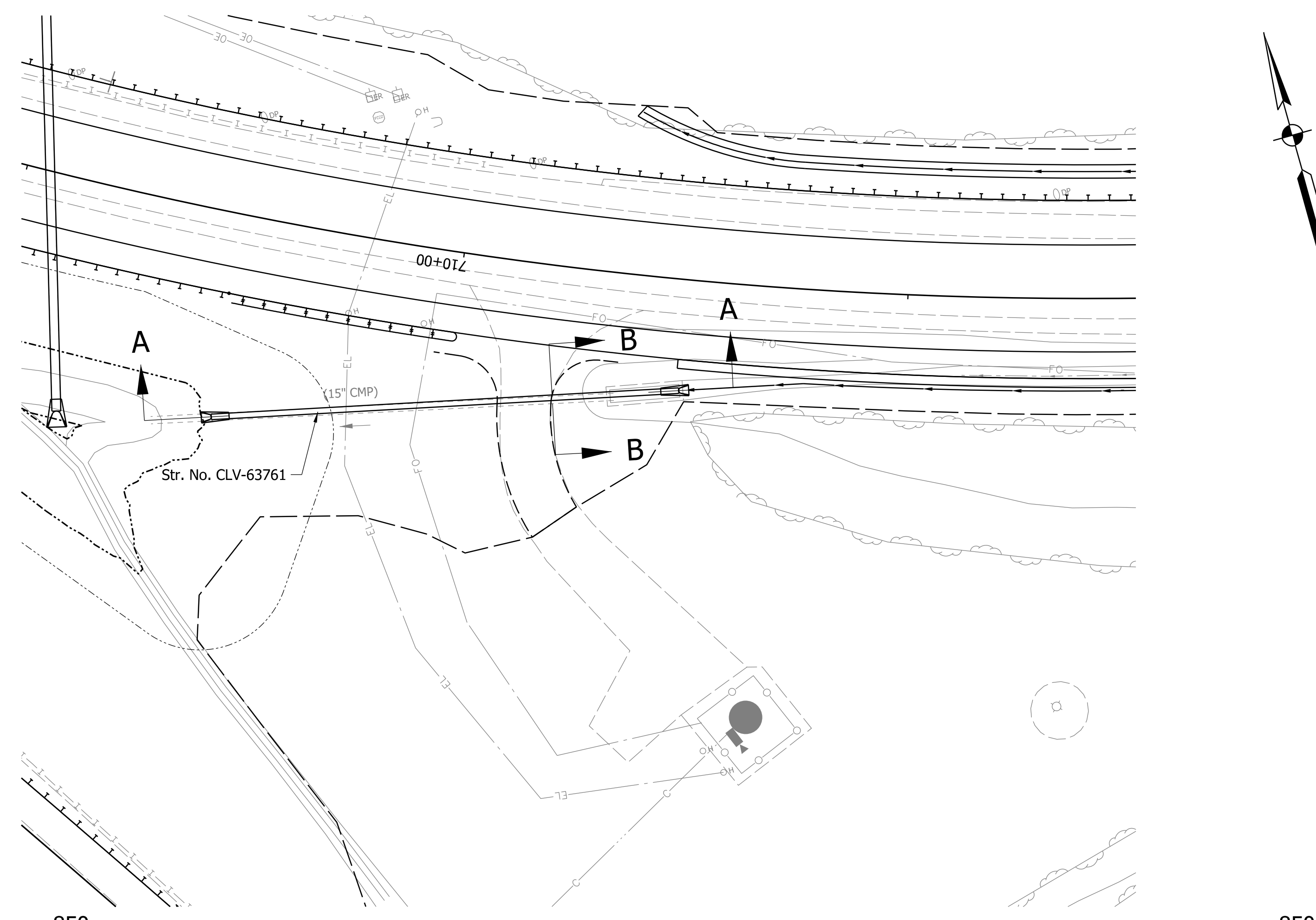
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NOT FOR CONSTRUCTION

|                          |                 |      |
|--------------------------|-----------------|------|
| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: SAD            | DRAWN: JP       |      |
| CHECKED: JMB             | CHECKED: JMB    |      |

INDIANA DEPARTMENT OF TRANSPORTATION  
**SMALL STRUCTURE DETAIL**  
CLV-55917

|                  |               |
|------------------|---------------|
| HORIZONTAL SCALE | BRIDGE FILE   |
| 1"=20'           | N/A           |
| VERTICAL SCALE   | DESIGNATION   |
| 1"=10'           | 1900162       |
| SURVEY BOOK      | SHEETS SSD-06 |
| ELECTRONIC       | 623 of 1273   |
| CONTRACT         | PROJECT       |
| R-42570          | 1900162       |

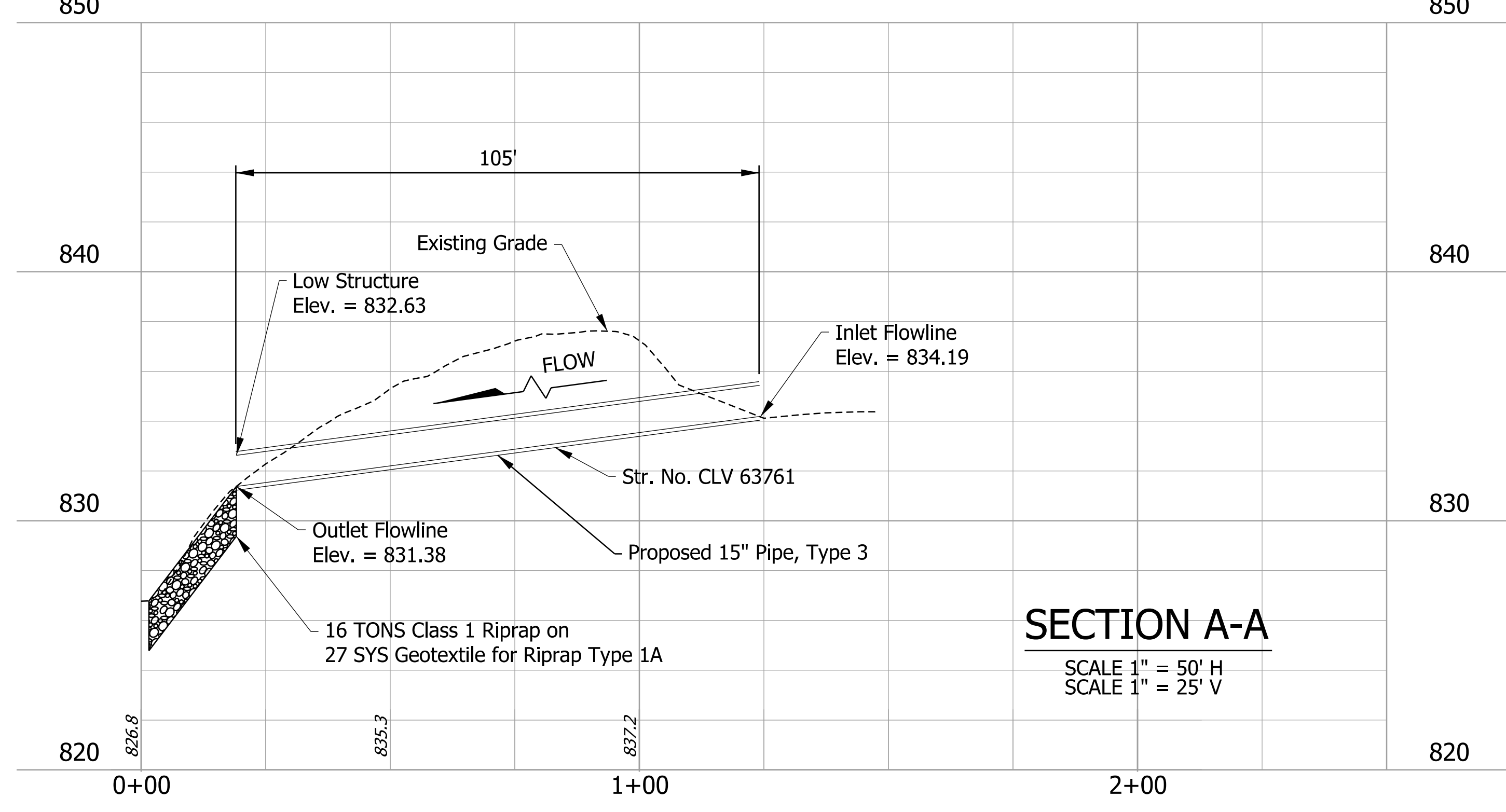
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**HYDRAULIC DATA**

|                       |        |       |
|-----------------------|--------|-------|
| DRAINAGE AREA         | 0.42   | ACRES |
| Q100 DISCHARGE        | 2.0    | CFS   |
| Q100 ELEVATION        | 831.73 | FT    |
| Q100 HEADWATER        | 834.99 | FT    |
| BACKWATER             | 0.55   | FT    |
| 2% EP OUTLET VELOCITY | 3.22   | FPS   |

**EXISTING STRUCTURE**  
 EXISTING 15" CORRUGATED METAL PIPE, APPROXIMATELY 104' LONG, TO BE REMOVED



**SECTION A-A**  
 SCALE 1" = 50' H  
 SCALE 1" = 25' V

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**NOTE TO REVIEWER**  
 Pavement design to be updated upon approval.

**NOTE TO REVIEWER**  
 Riprap aprons and energy dissipaters to be designed and refined in future submittals.

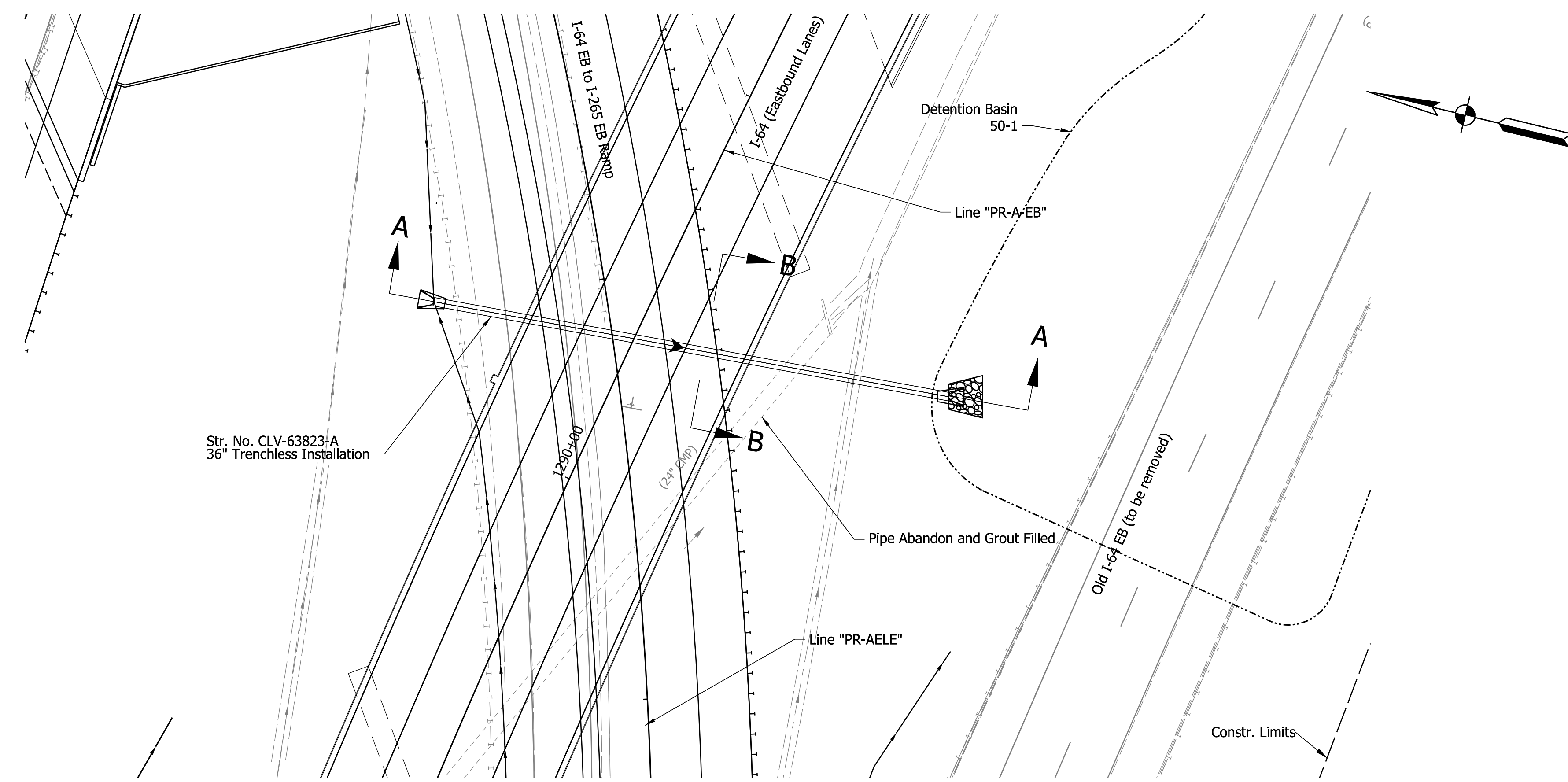
**DRAFT**  
 NOT FOR CONSTRUCTION

|                          |                 |      |
|--------------------------|-----------------|------|
| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: SAD            | DRAWN: JP       |      |
| CHECKED: JMB             | CHECKED: JMB    |      |

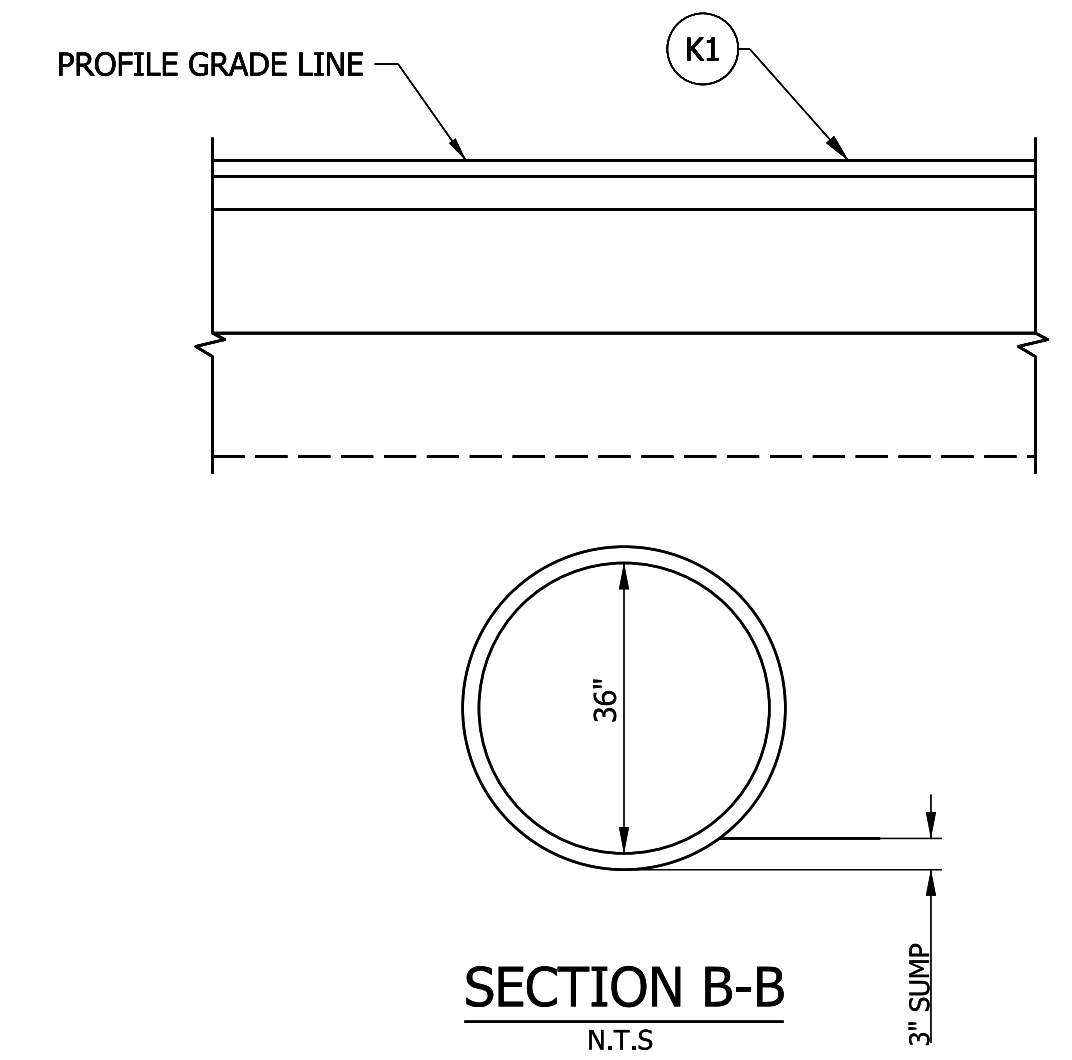
INDIANA DEPARTMENT OF TRANSPORTATION  
 SMALL STRUCTURE DETAIL  
 CLV-63761

|                  |               |
|------------------|---------------|
| HORIZONTAL SCALE | BRIDGE FILE   |
| 1"=20'           | N/A           |
| VERTICAL SCALE   | DESIGNATION   |
| 1"=10'           | 1900162       |
| SURVEY BOOK      | SHEETS SSD-07 |
| ELECTRONIC       | 624 of 1273   |
| CONTRACT         | PROJECT       |
| R-42570          | 1900162       |





**PLAN**  
SCALE 1" = 20'



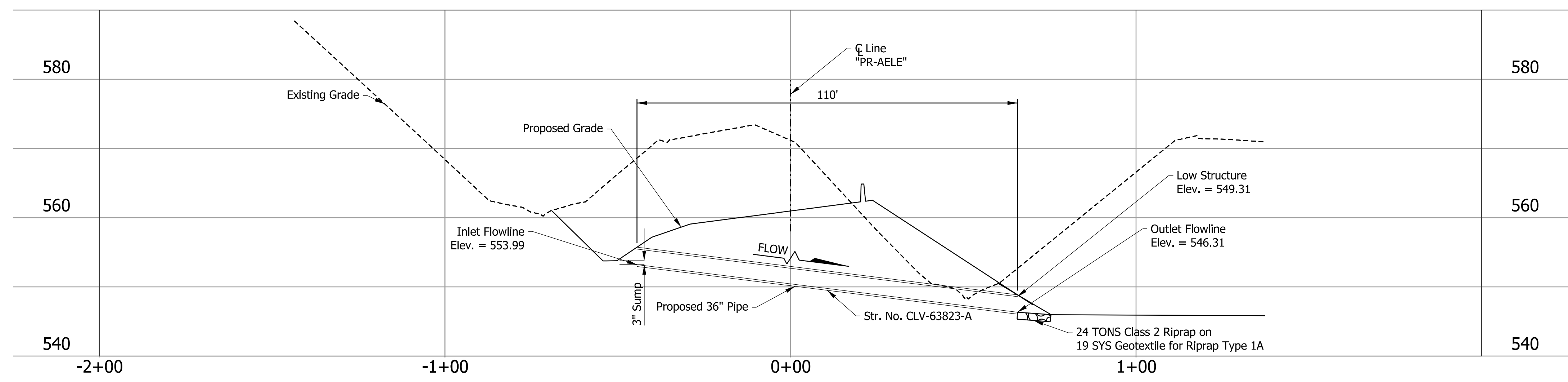
**SECTION B-B**  
N.T.S.

**HYDRAULIC DATA**

|                       |        |       |
|-----------------------|--------|-------|
| DRAINAGE AREA         | 7.45   | ACRES |
| Q100 DISCHARGE        | 33.5   | CFS   |
| Q100 ELEVATION        | 544.45 | FT    |
| Q100 HEADWATER        | 555.93 | FT    |
| BACKWATER             | 2.61   | FT    |
| 2% EP OUTLET VELOCITY | 11.13  | FPS   |

**EXISTING STRUCTURE**

EXISTING 24" CORRUGATED METAL PIPE, APPROXIMATELY 215' LONG, TO BE GROUT FILLED



**SECTION A-A**

SCALE 1" = 20' H  
SCALE 1" = 10' V

**K1** 220 #/Syd. QC/QA-HMA, 4, 76, Surface 12.5 mm - SMA [410-09530]  
Variable Depth Minimum 220 #/Syd. QC/QA-HMA, 4, 76, Intermediate, 12.5 mm  
1320 #/Syd. QC/QA-HMA, 4, 64, Base, 25.0 mm  
300 #/Syd. QC/QA-HMA, 4, 76, Intermediate, OG 19.0mm  
6 in. of Compacted Aggregate, No. 53 on  
Geotextile for Subgrade, Type 2B  
Subgrade Treatment Type IC

|   |  |
|---|--|
| <b>NOTE TO REVIEWER</b>   | <b>NOTE TO REVIEWER</b>                      |
| Bore Pits for trenchless pipe install to be shown in future submittals. | Headwall to be refined in future submittals. |

|  |  |   |
|--|--|---|
| <b>NOTE TO REVIEWER</b>                                    | <b>NOTE TO REVIEWER</b>                      | <b>NOTE TO REVIEWER</b>   |
| Hydraulic information to be completed in future submittal. | Pavement design to be updated upon approval. | Riprap aprons and energy dissipaters to be designed and refined in future submittals. |

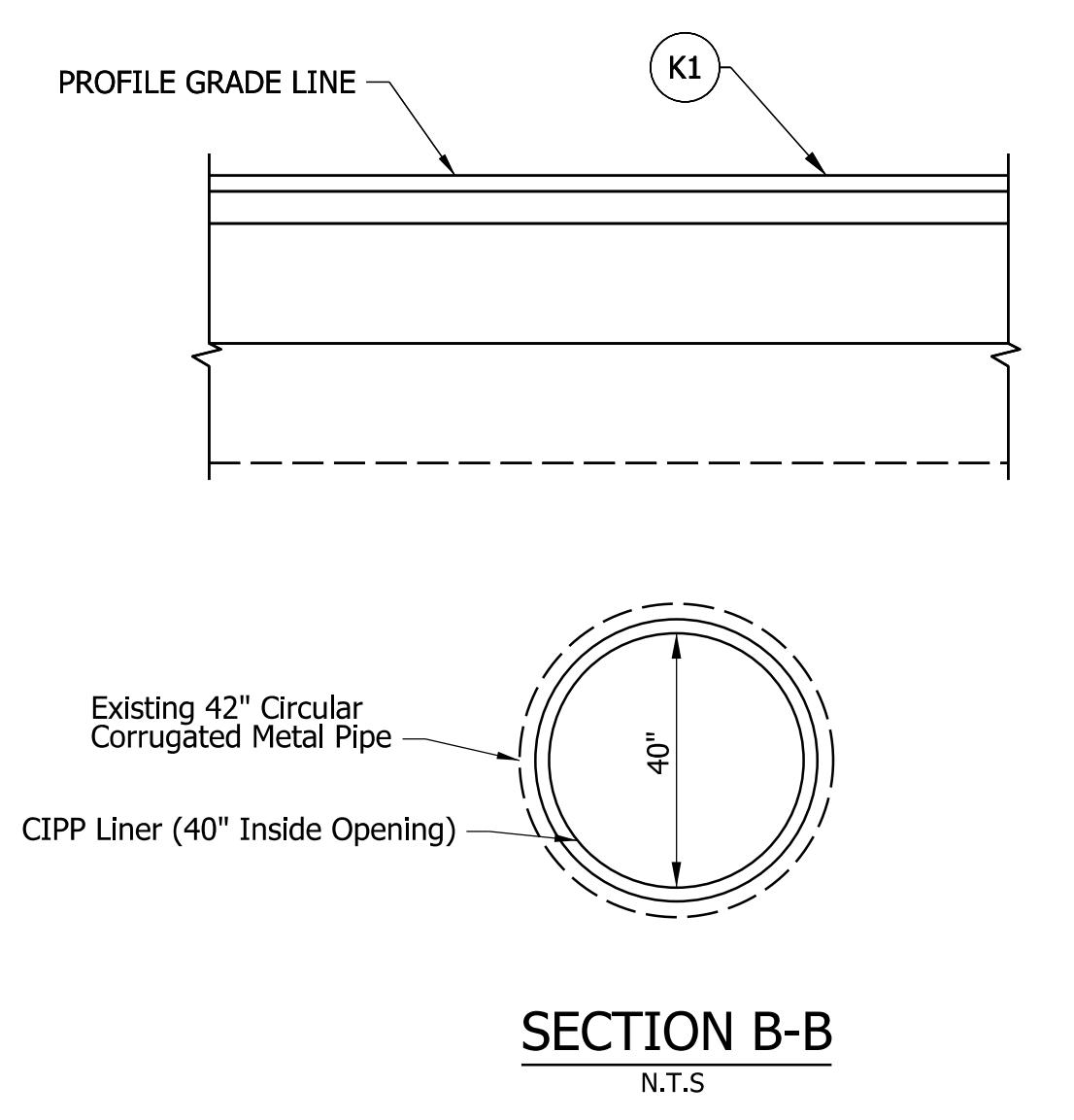
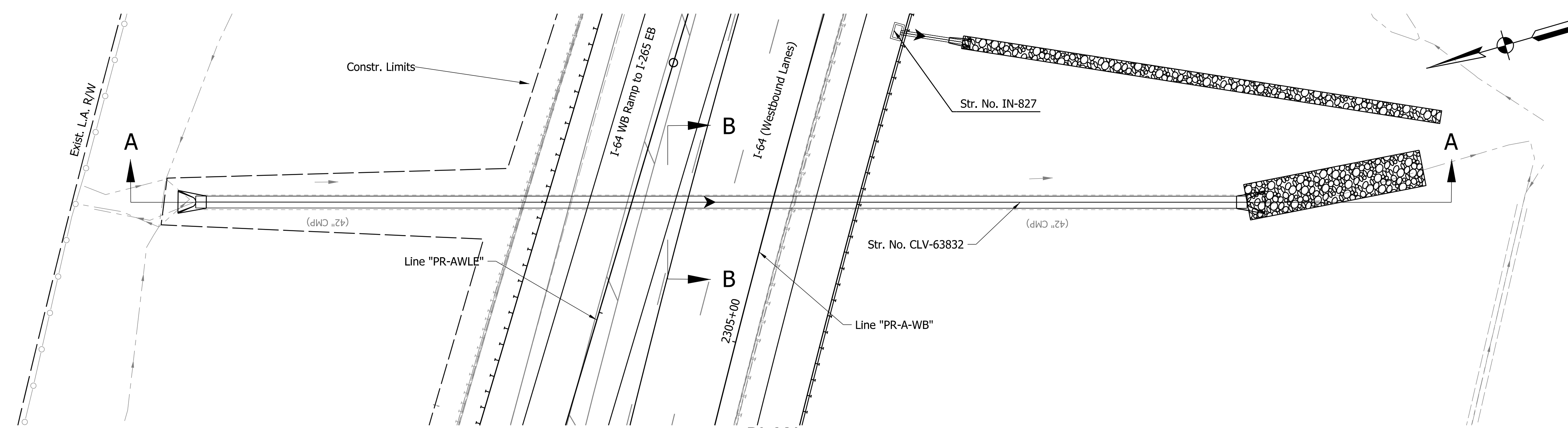
**DRAFT**  
NOT FOR CONSTRUCTION

|                          |                 |      |
|--------------------------|-----------------|------|
| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: JME            | DRAWN: KCM      |      |
| CHECKED: MCS             | CHECKED: MCS    |      |

INDIANA DEPARTMENT OF TRANSPORTATION  
**SMALL STRUCTURE DETAIL**  
CLV-63823-A

|                  |             |         |
|------------------|-------------|---------|
| HORIZONTAL SCALE | BRIDGE FILE |         |
| 1"=20'           | N/A         |         |
| VERTICAL SCALE   | DESIGNATION |         |
| 1"=10'           | 1900162     |         |
| SURVEY BOOK      | SHEETS      | SSD-08  |
| ELECTRONIC       | 625         | of 1273 |
| CONTRACT         | PROJECT     |         |
| R-42570          | 1900162     |         |

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PLAN  
SCALE 1" = 20'

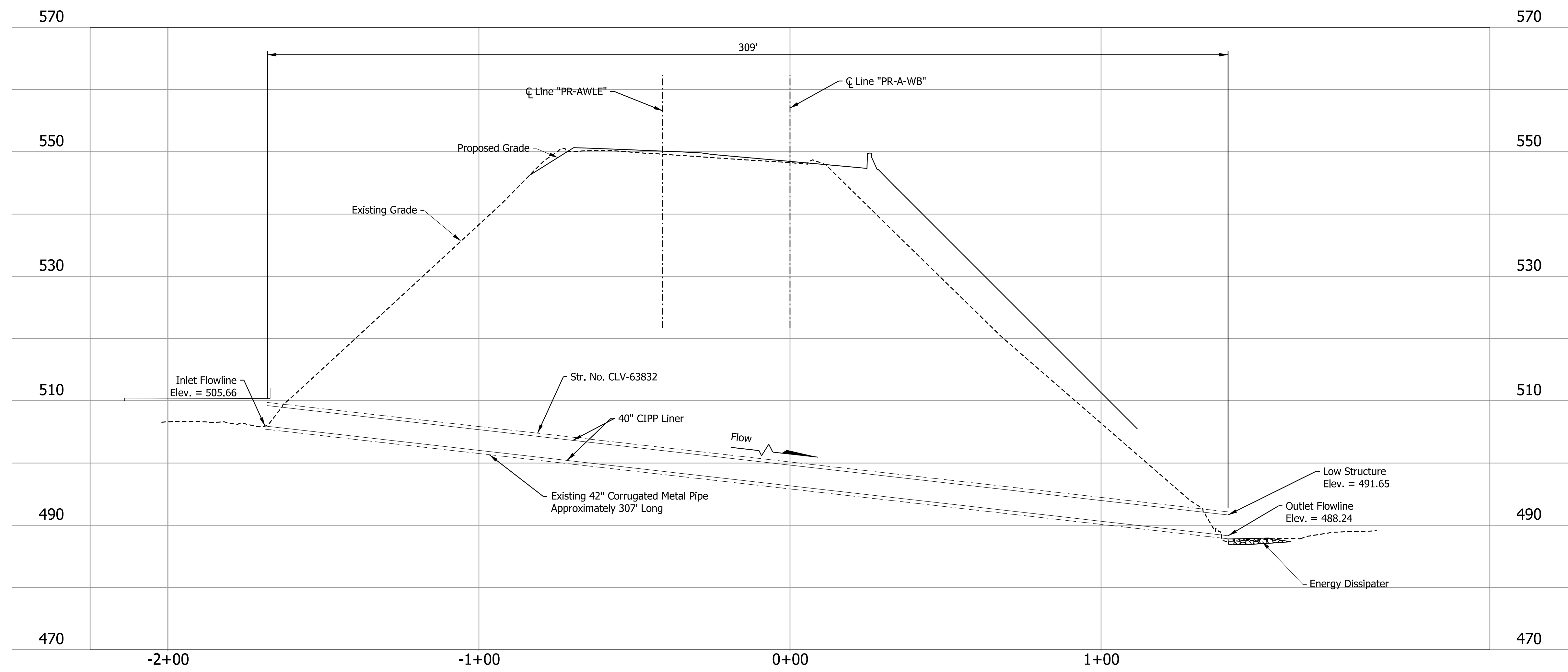
HYDRAULIC DATA

|                       |        |       |
|-----------------------|--------|-------|
| DRAINAGE AREA         | 17.96  | ACRES |
| Q100 DISCHARGE        | 29.7   | CFS   |
| Q100 ELEVATION        | 489.38 | FT    |
| Q100 HEADWATER        | 508.13 | FT    |
| BACKWATER             | 1.33   | FT    |
| 2% EP OUTLET VELOCITY | 18.2   | FPS   |

EXISTING STRUCTURE

EXISTING 42" CORRUGATED METAL PIPE, APPROXIMATELY 307' LONG, TO BE LINED

220 #/Syd. QC/QA-HMA, 4, 76, Surface 12.5 mm - SMA [410-09530]  
 Variable Depth Minimum 220 #/Syd. QC/QA-HMA, 4, 76, Intermediate, 12.5 mm  
 1320 #/Syd. QC/QA-HMA, 4, 64, Base, 25.0 mm  
 300 #/Syd. QC/QA-HMA, 4, 76, Intermediate, OG 19.0mm  
 6 in. of Compacted Aggregate, No. 53 on  
 Geotextile for Subgrade, Type 2B  
 Subgrade Treatment Type 1C



SECTION A-A  
SCALE 1" = 20' H  
SCALE 1" = 10' V

**NOTE TO REVIEWER**  
Headwall to be refined in future submittals.

**NOTE TO REVIEWER**  
Riprap aprons and energy dissipaters to be designed and refined in future submittals.

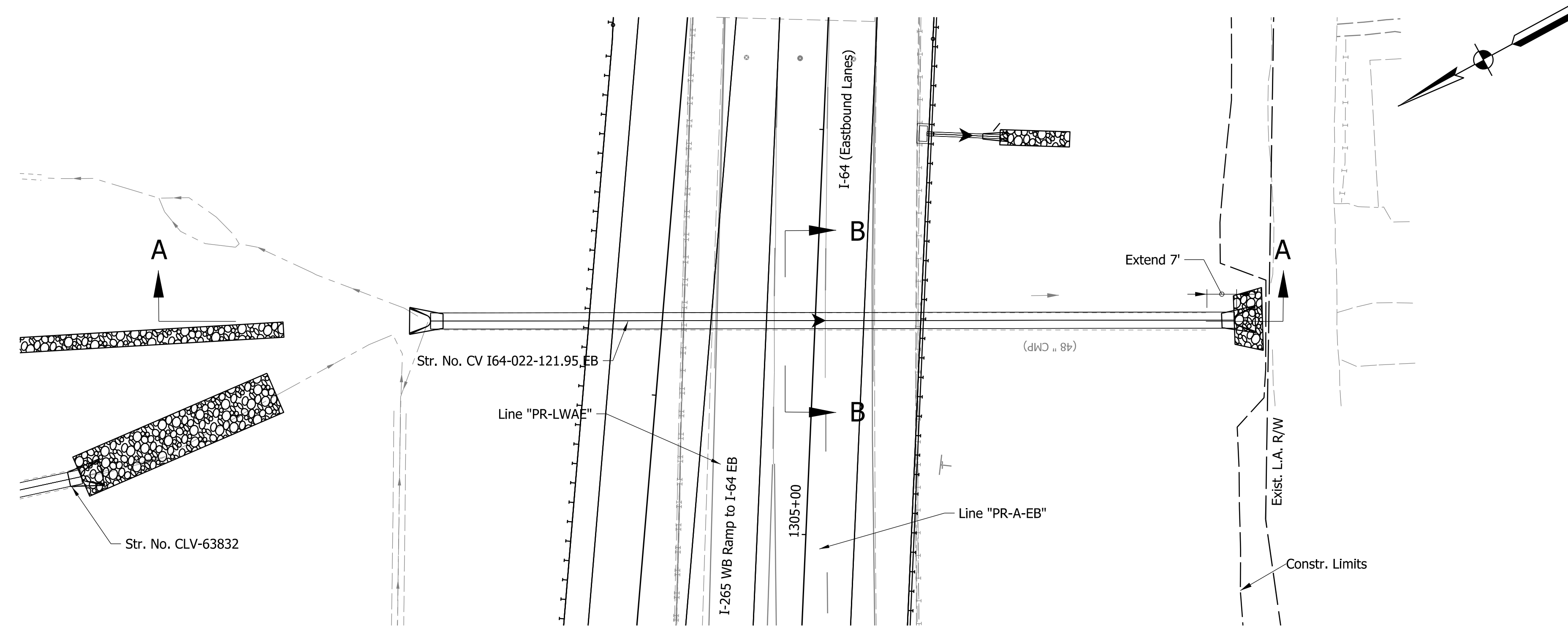
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NOT FOR CONSTRUCTION

|                          |                 |      |
|--------------------------|-----------------|------|
| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: JME            | DRAWN: KCM      |      |
| CHECKED: MCS             | CHECKED: MCS    |      |

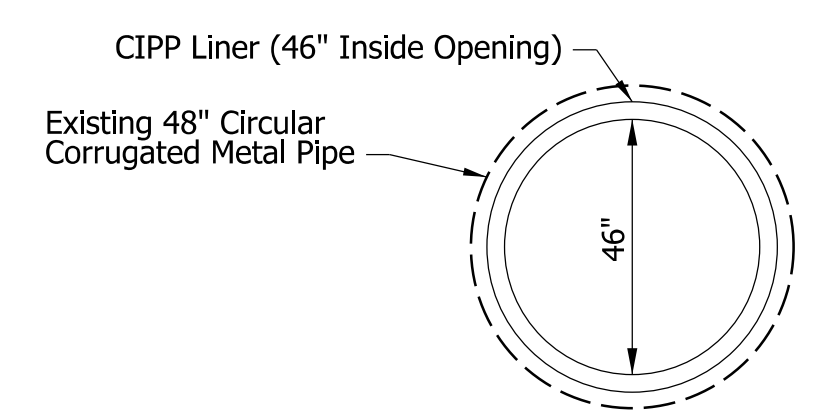
INDIANA DEPARTMENT OF TRANSPORTATION  
SMALL STRUCTURE DETAIL  
CLV-63832

|                  |             |         |
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| HORIZONTAL SCALE | BRIDGE FILE |         |
| 1"=20'           | N/A         |         |
| VERTICAL SCALE   | DESIGNATION |         |
| 1"=10'           | 1900162     |         |
| SURVEY BOOK      | SHEETS      | SSD-09  |
| ELECTRONIC       | 626         | of 1273 |
| CONTRACT         | PROJECT     |         |
| R-42570          | 1900162     |         |

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**PLAN**  
SCALE 1" = 20'



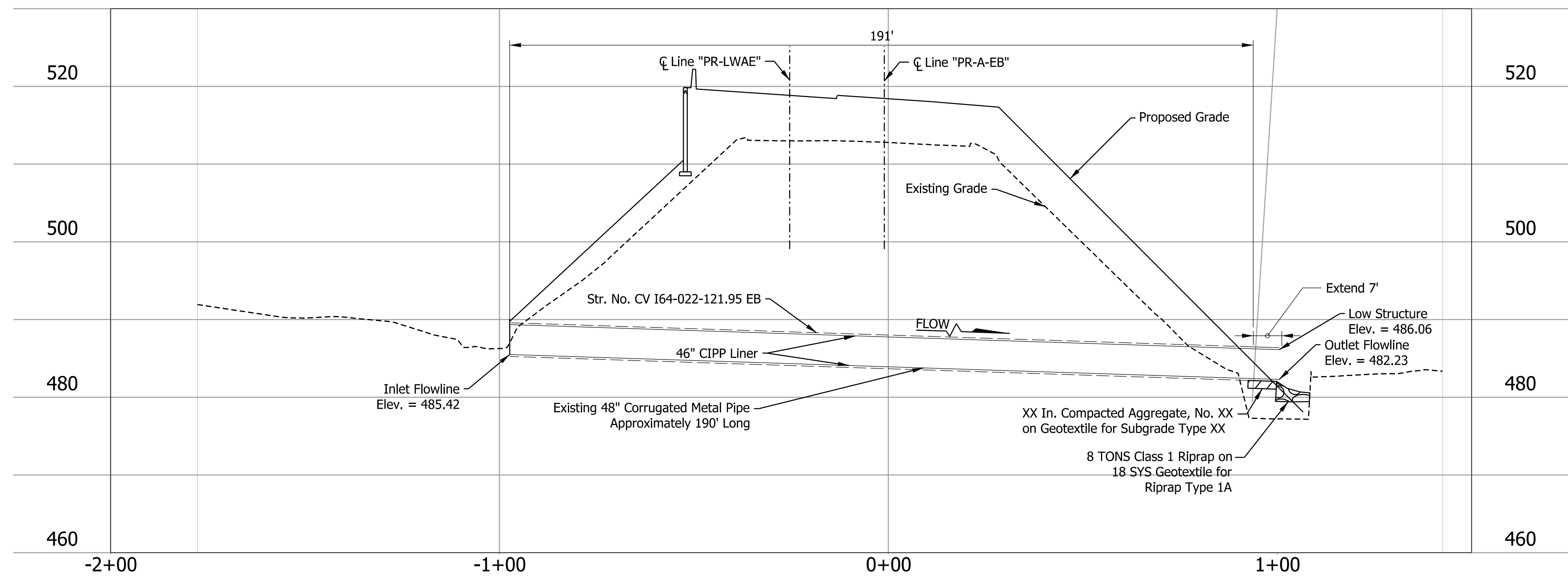
**SECTION B-B**  
N.T.S.

**HYDRAULIC DATA**

|                       |        |       |
|-----------------------|--------|-------|
| DRAINAGE AREA         | 24.4   | ACRES |
| Q100 DISCHARGE        | 52.30  | CFS   |
| Q100 ELEVATION        | 484.26 | FT    |
| Q100 HEADWATER        | 488.84 | FT    |
| BACKWATER             | 1.39   | FT    |
| 2% EP OUTLET VELOCITY | 13.02  | FPS   |

**EXISTING STRUCTURE**

EXISTING 48" CORRUGATED METAL PIPE, APPROXIMATELY 190' LONG, TO BE LINED



**SECTION A-A**  
SCALE 1" = 20' H  
SCALE 1" = 10' V

**NOTE TO REVIEWER**

Headwall to be refined in future submittals.

**NOTE TO REVIEWER**

Retaining wall to be designed in future submittal.

**NOTE TO REVIEWER**

Riprap aprons and energy dissipaters to be designed and refined in future submittal.

**DRAFT**  
NOT FOR CONSTRUCTION

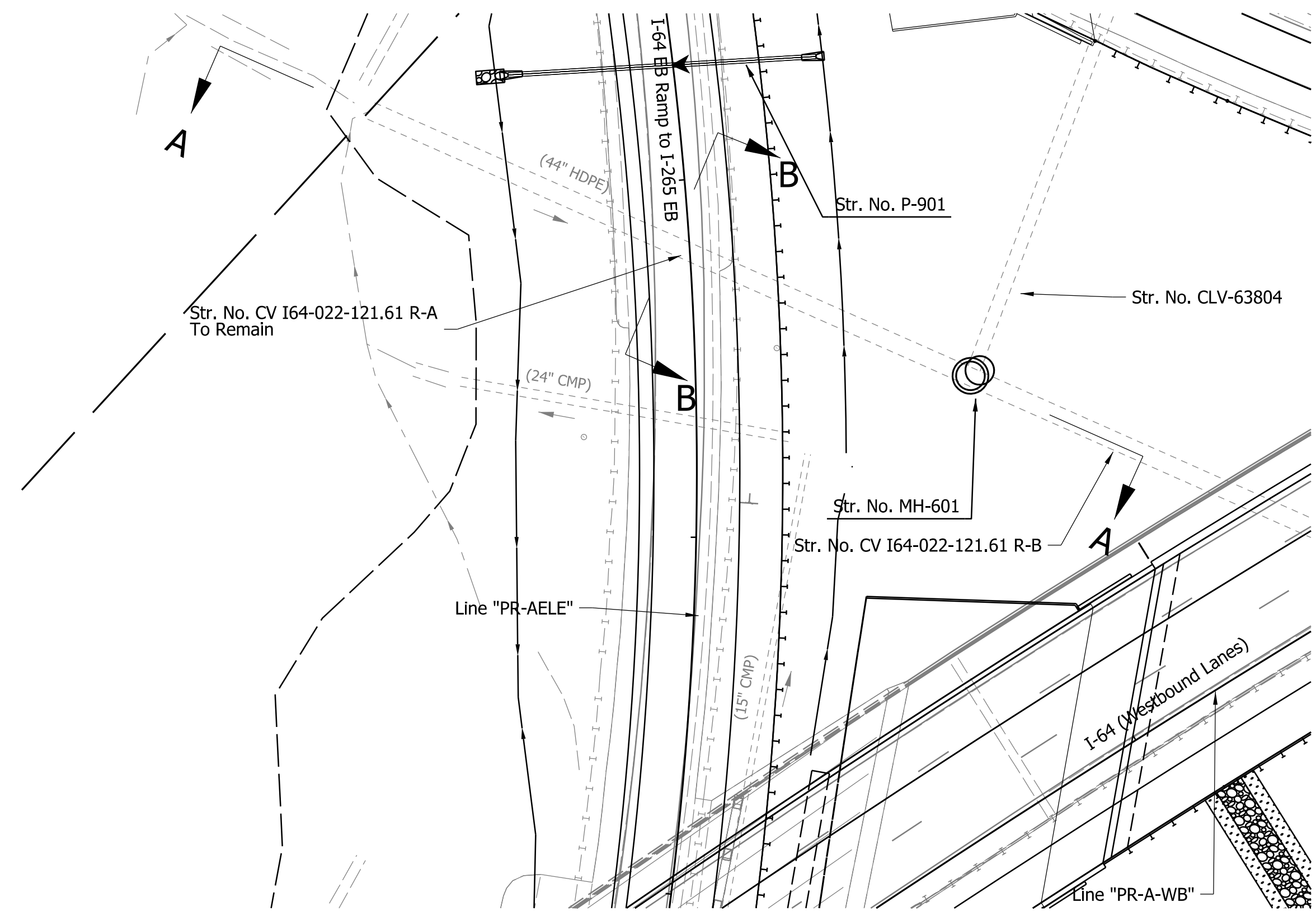
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| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: JME            | DRAWN: KCM      |      |
| CHECKED: MCS             | CHECKED: MCS    |      |

INDIANA DEPARTMENT OF TRANSPORTATION

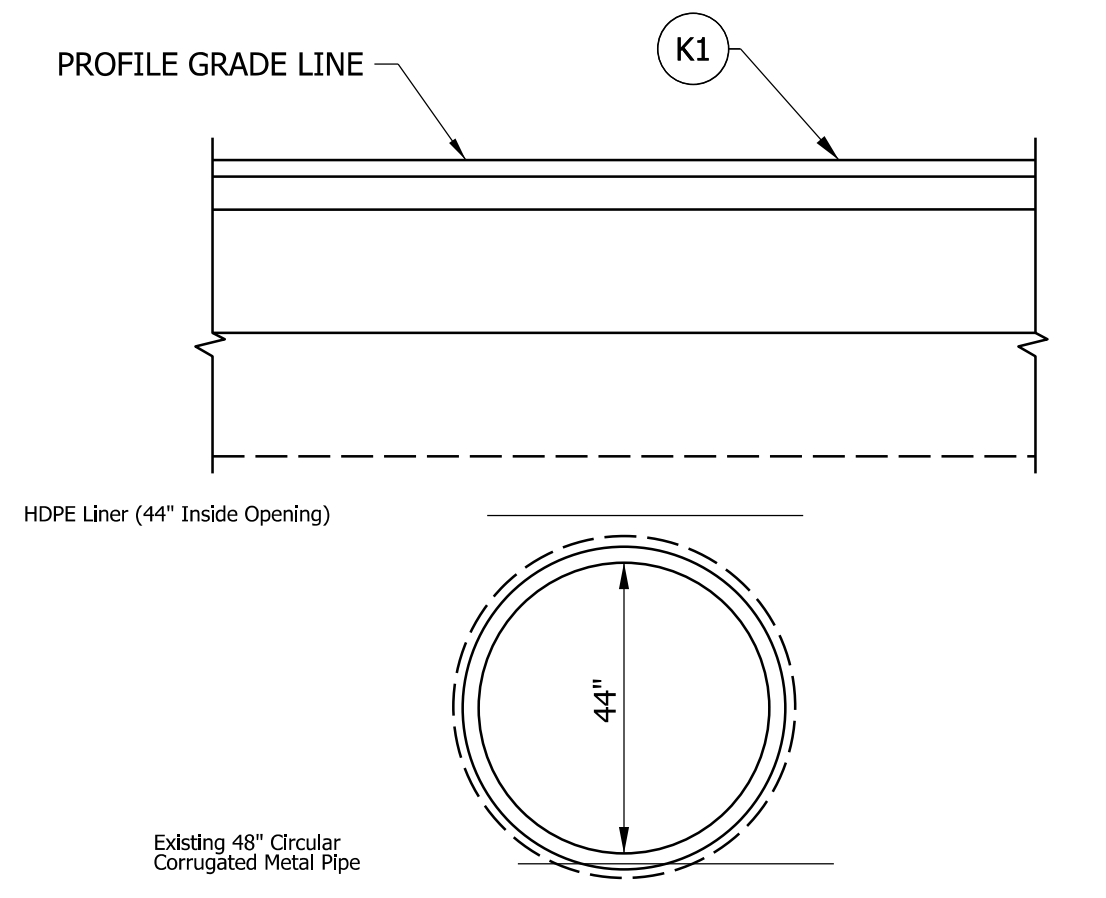
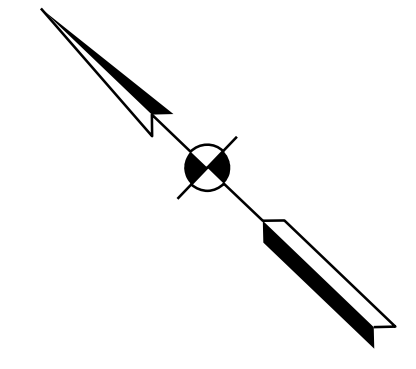
SMALL STRUCTURE DETAIL  
CV 164-022-121.95 EB

|                  |               |
|------------------|---------------|
| HORIZONTAL SCALE | BRIDGE FILE   |
| 1"=20'           | N/A           |
| VERTICAL SCALE   | DESIGNATION   |
| 1"=10'           | 1900162       |
| SURVEY BOOK      | SHEETS SSD-10 |
| ELECTRONIC       | 627 of 1273   |
| CONTRACT         | PROJECT       |
| R-42570          | 1900162       |

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**PLAN**  
SCALE 1" = 30'



**SECTION B-B**  
N.T.S

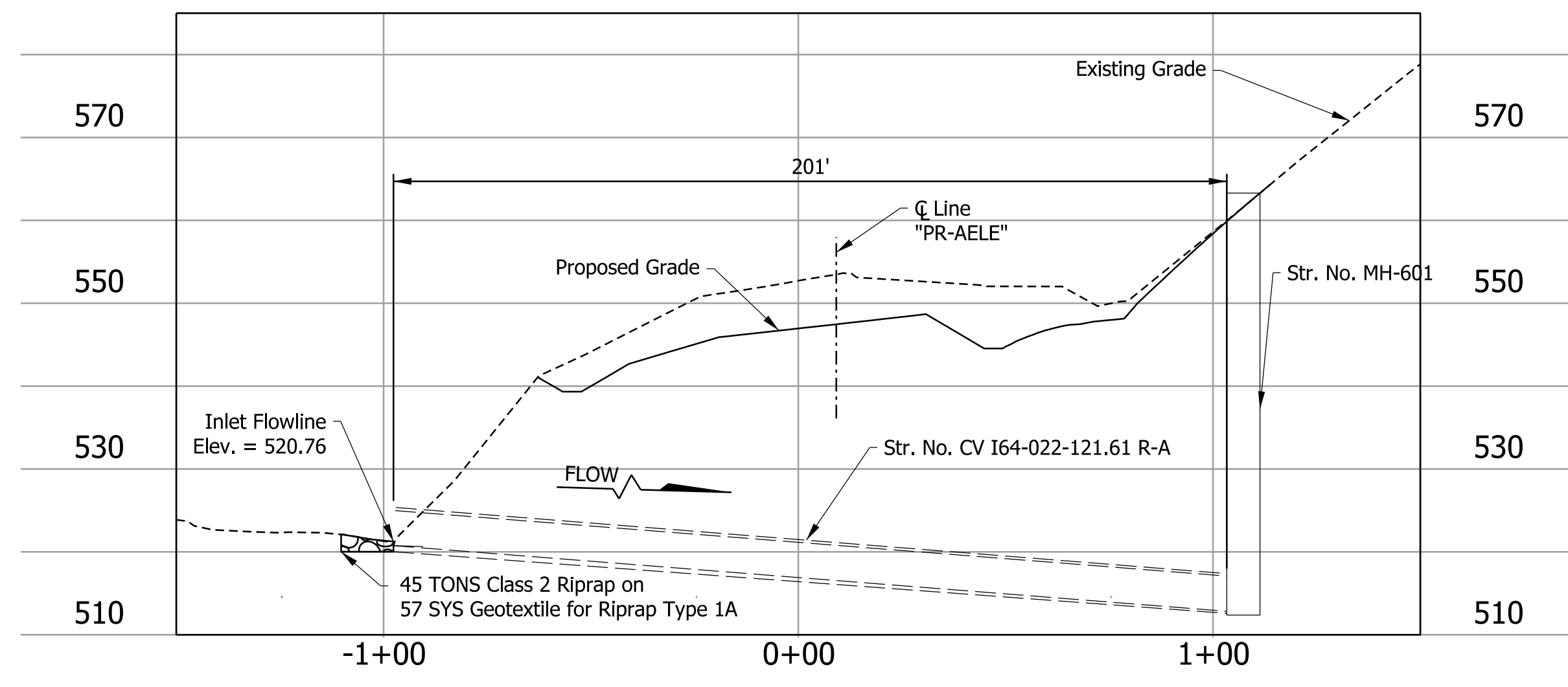
**HYDRAULIC DATA**

|                       |        |       |
|-----------------------|--------|-------|
| DRAINAGE AREA         | 61.23  | ACRES |
| Q100 DISCHARGE        | 130.50 | CFS   |
| Q100 ELEVATION        | 508.93 | FT    |
| Q100 HEADWATER        | 531.27 | FT    |
| BACKWATER             | 7.10   | FT    |
| 2% EP OUTLET VELOCITY | 12.09  | FPS   |

**EXISTING STRUCTURE**

EXISTING 48" CORRUGATED METAL PIPE LINED WITH A 44" HIGH DENSITY POLY ETHYLENE PIPE, APPROXIMATELY 529' LONG

K1 220 #/Syd. QC/QA-HMA, 4, 76, Surface 12.5 mm - SMA [410-09530]  
Variable Depth Minimum 220 #/Syd. QC/QA-HMA, 4, 76, Intermediate, 12.5 mm  
1320 #/Syd. QC/QA-HMA, 4, 64, Base, 25.0 mm  
300 #/Syd. QC/QA-HMA, 4, 76, Intermediate, OG 19.0mm  
6 in. of Compacted Aggregate, No. 53 on  
Geotextile for Subgrade, Type 2B  
Subgrade Treatment Type IC



**SECTION A-A**  
SCALE 1" = 30' H  
SCALE 1" = 15' V

**NOTE TO REVIEWER**

Hydraulic information to be completed in future submittal.

**NOTE TO REVIEWER**

Pavement design to be updated upon approval.

**NOTE TO REVIEWER**

Headwall to be refined in future submittals.

**DRAFT**  
NOT FOR CONSTRUCTION

|                          |                 |      |
|--------------------------|-----------------|------|
| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: JME            | DRAWN: KCM      |      |
| CHECKED: MCS             | CHECKED: MCS    |      |

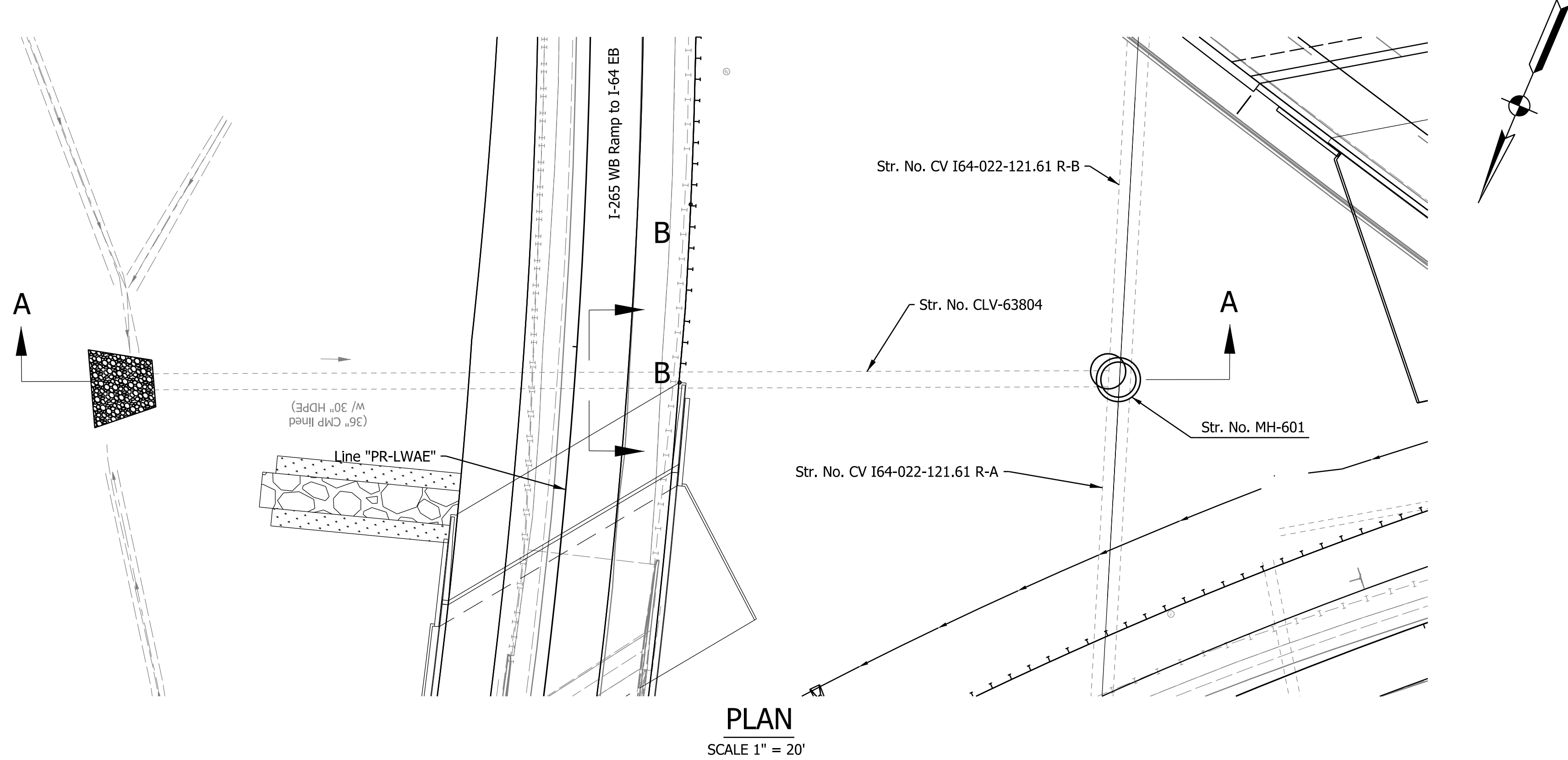
INDIANA DEPARTMENT OF TRANSPORTATION

SMALL STRUCTURE DETAIL  
CV I64-022-121.61 R

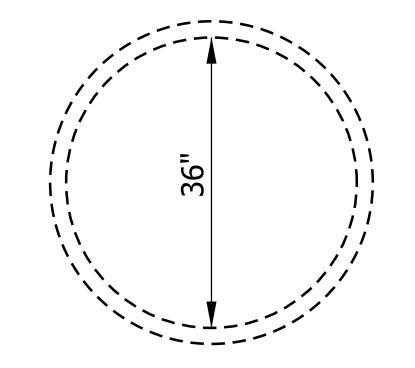
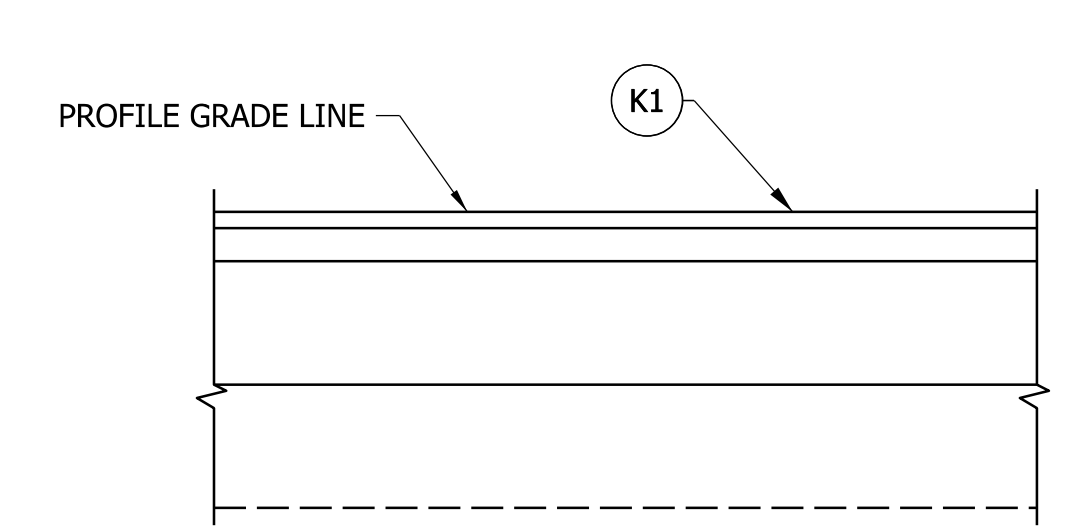
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|------------------|-------------|---------|
| HORIZONTAL SCALE | BRIDGE FILE |         |
| 1"=30'           | N/A         |         |
| VERTICAL SCALE   | DESIGNATION |         |
| 1"=15'           | 1900162     |         |
| SURVEY BOOK      | SHEETS      | SSD-11  |
| ELECTRONIC       | 628         | of 1273 |
| CONTRACT         | PROJECT     |         |
| R-42570          | 1900162     |         |

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**PLAN**  
SCALE 1" = 20'



**SECTION B-B**  
N.T.S

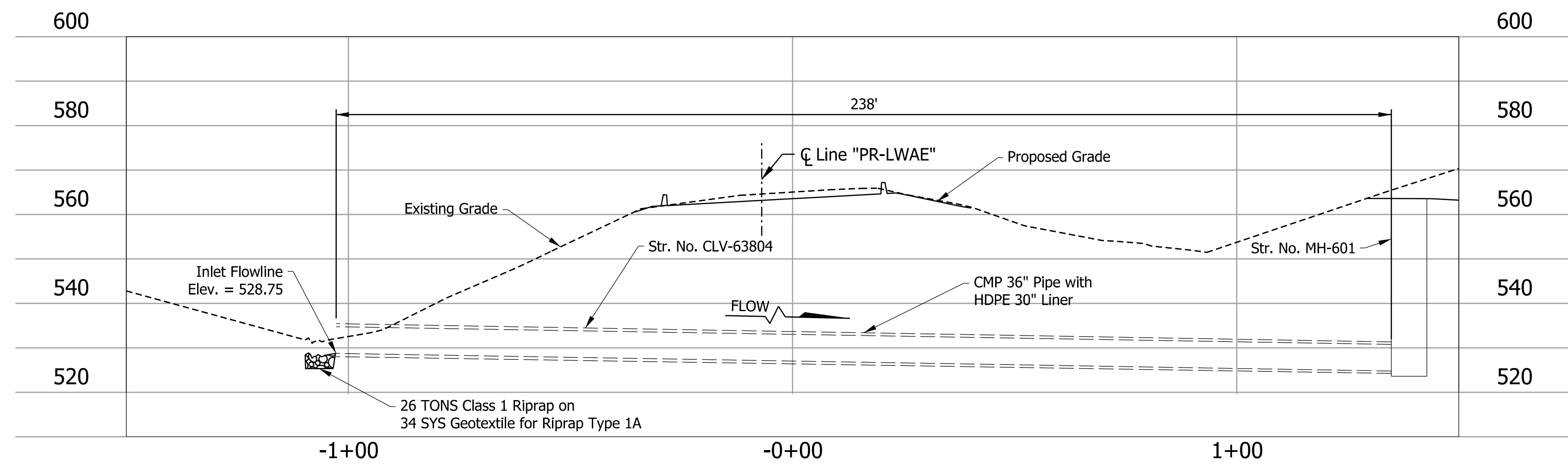
**HYDRAULIC DATA**

|                       |        |       |
|-----------------------|--------|-------|
| DRAINAGE AREA         | 19.38  | ACRES |
| Q100 DISCHARGE        | 24.5   | CFS   |
| Q100 ELEVATION        | 525.46 | FT    |
| Q100 HEADWATER        | 530.35 | FT    |
| BACKWATER             | 0.63   | FT    |
| 2% EP OUTLET VELOCITY | 6.13   | FPS   |

**EXISTING STRUCTURE**

EXISTING 36" CORRUGATED METAL PIPE LINED WITH A 30" HIGH DENSITY POLYETHYLENE PIPE, APPROXIMATELY 217' LONG, TO REMAIN

**K1** 220 #/Syd. QC/QA-HMA, 4, 76, Surface 12.5 mm - SMA [410-09530]  
Variable Depth Minimum 220 #/Syd. QC/QA-HMA, 4, 76, Intermediate, 12.5 mm  
1320 #/Syd. QC/QA-HMA, 4, 64, Base, 25.0 mm  
300 #/Syd. QC/QA-HMA, 4, 76, Intermediate, OG 19.0mm  
6 in. of Compacted Aggregate, No. 53 on  
Geotextile for Subgrade, Type 2B  
Subgrade Treatment Type 1C



**SECTION A-A**  
SCALE 1" = 20' H  
SCALE 1" = 10' V

**NOTE TO REVIEWER**  
Pavement design to be updated upon approval.

**NOTE TO REVIEWER**  
Riprap aprons and energy dissipaters to be designed and refined in future submittals.

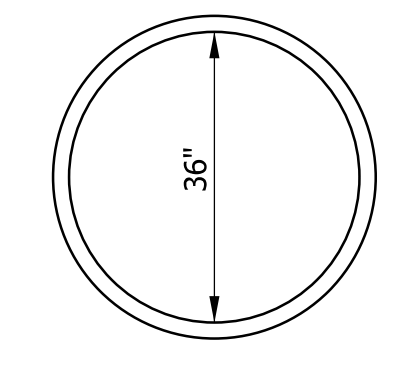
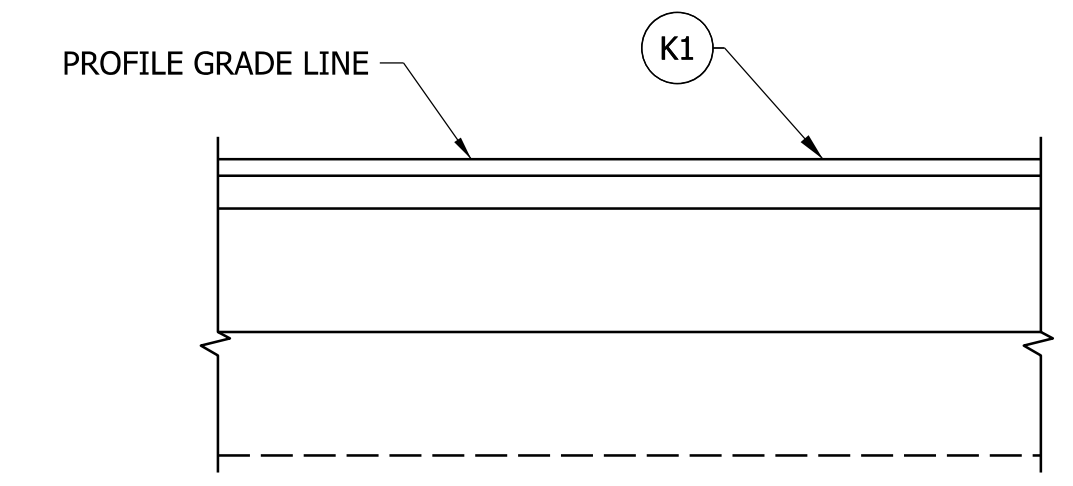
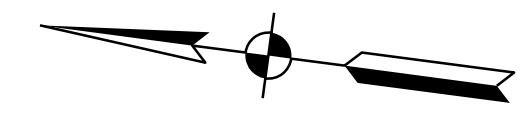
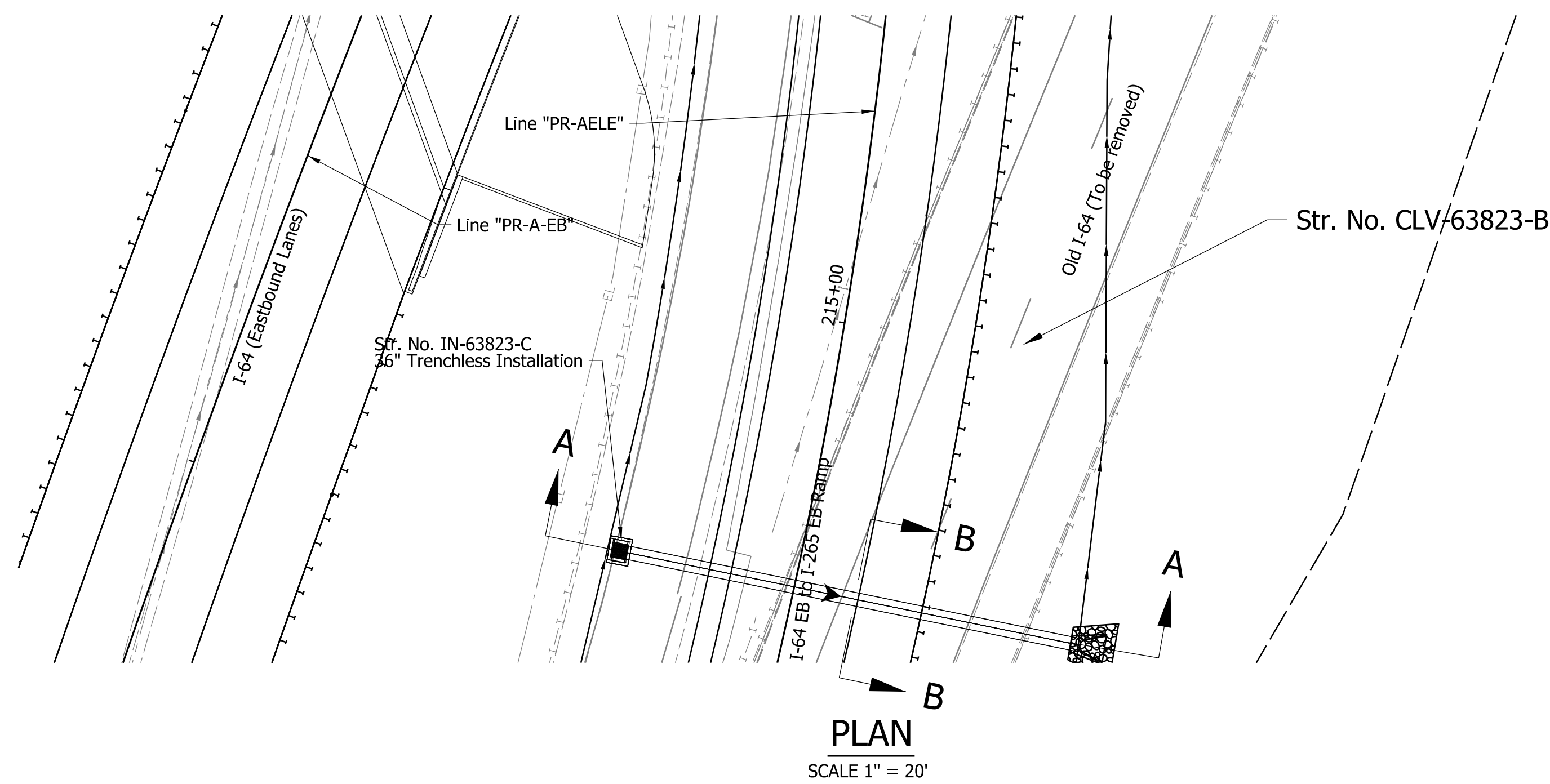
**DRAFT**  
NOT FOR CONSTRUCTION

|                          |                 |      |
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| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: JME            | DRAWN: KCM      |      |
| CHECKED: MCS             | CHECKED: MCS    |      |

INDIANA DEPARTMENT OF TRANSPORTATION  
**SMALL STRUCTURE DETAIL**  
CLV-63804

|                  |               |
|------------------|---------------|
| HORIZONTAL SCALE | BRIDGE FILE   |
| 1"=20'           | N/A           |
| VERTICAL SCALE   | DESIGNATION   |
| 1"=10'           | 1900162       |
| SURVEY BOOK      | SHEETS SSD-13 |
| ELECTRONIC       | 630 of 1273   |
| CONTRACT         | PROJECT       |
| R-42570          | 1900162       |

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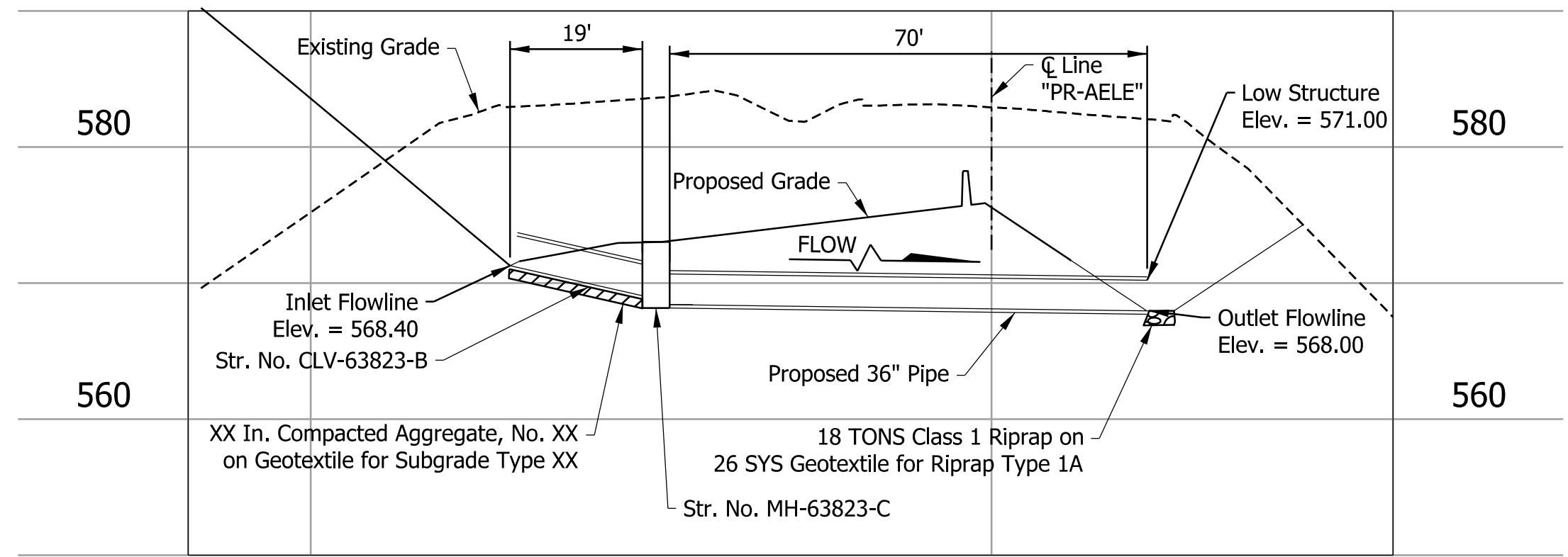
**SECTION B-B**  
N.T.S

**HYDRAULIC DATA**

|                       |        |       |
|-----------------------|--------|-------|
| DRAINAGE AREA         | 7.45   | ACRES |
| Q100 DISCHARGE        | 33.50  | CFS   |
| Q100 ELEVATION        | 544.45 | FT    |
| Q100 HEADWATER        | 555.93 | FT    |
| BACKWATER             | 2.51   | FT    |
| 2% EP OUTLET VELOCITY | 11.13  | FPS   |

**EXISTING STRUCTURE**  
No Existing Structure

**K1** 220 #/Syd. QC/QA-HMA, 4, 76, Surface 12.5 mm - SMA [410-09530]  
Variable Depth Minimum 220 #/Syd. QC/QA-HMA, 4, 76, Intermediate, 12.5 mm  
1320 #/Syd. QC/QA-HMA, 4, 64, Base, 25.0 mm  
300 #/Syd. QC/QA-HMA, 4, 76, Intermediate, OG 19.0mm  
6 in. of Compacted Aggregate, No. 53 on  
Geotextile for Subgrade, Type 2B  
Subgrade Treatment Type IC



**SECTION A-A**  
SCALE 1" = 20' H  
SCALE 1" = 10' V

**NOTE TO REVIEWER**  
Bore Pits for trenchless pipe install to be shown in future submittals

**NOTE TO REVIEWER**  
Pavement design to be updated upon approval.

**NOTE TO REVIEWER**  
Riprap aprons and energy dissipaters to be designed and refined in future submittals.

**DRAFT**  
NOT FOR CONSTRUCTION

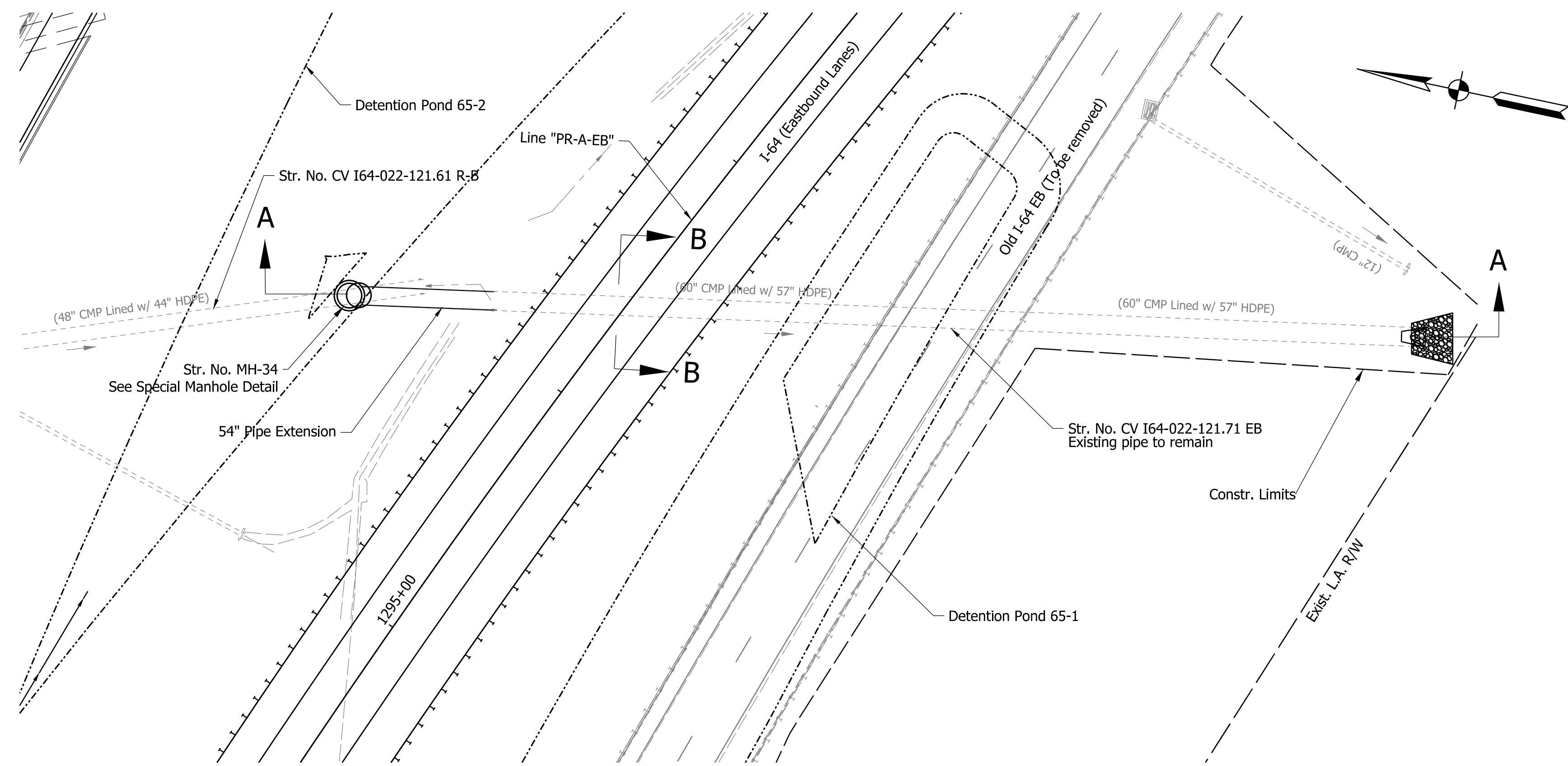
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| RECOMMENDED FOR APPROVAL _____ | DESIGN ENGINEER _____ | DATE _____ |
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| CHECKED: MCS                   | CHECKED: MCS          |            |

INDIANA  
DEPARTMENT OF TRANSPORTATION

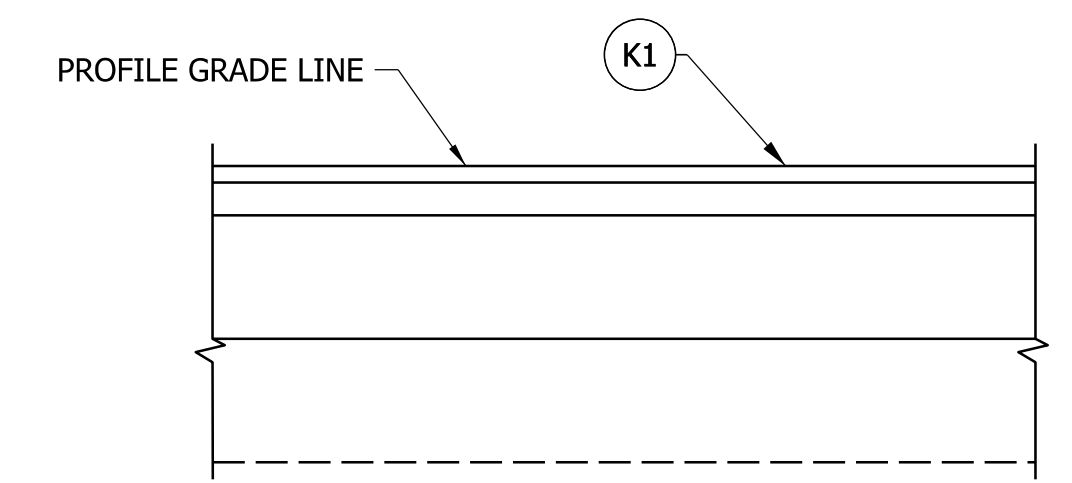
**SMALL STRUCTURE DETAIL**  
CLV-63823-B AND CLV-63823-C

|                  |               |
|------------------|---------------|
| HORIZONTAL SCALE | BRIDGE FILE   |
| 1"=20'           | N/A           |
| VERTICAL SCALE   | DESIGNATION   |
| 1"=10'           | 1900162       |
| SURVEY BOOK      | SHEETS SSD-14 |
| ELECTRONIC       | 631 of 1273   |
| CONTRACT         | PROJECT       |
| R-42570          | 1900162       |

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**PLAN**  
SCALE 1" = 30'



**SECTION B-B**  
N.T.S.

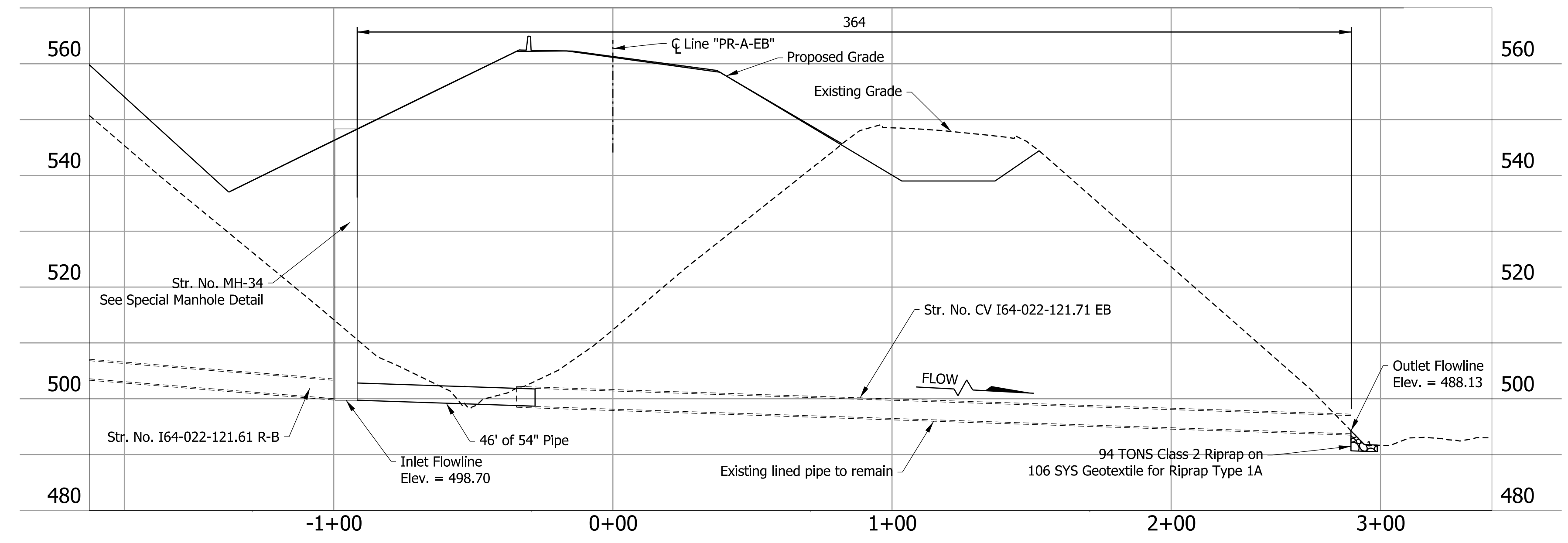
**HYDRAULIC DATA**

|                       |        |       |
|-----------------------|--------|-------|
| DRAINAGE AREA         | 79.3   | ACRES |
| Q100 DISCHARGE        | 189.2  | CFS   |
| Q100 ELEVATION        | 490.24 | FT    |
| Q100 HEADWATER        | 501.93 | FT    |
| BACKWATER             | 2.49   | FT    |
| 2% EP OUTLET VELOCITY | 13.70  | FPS   |

**EXISTING STRUCTURE**

EXISTING 60" CORRUGATED METAL PIPE LINED WITH 57" HDPE, APPROXIMATELY 318' LONG

- K1 220 #/Syd. QC/QA-HMA, 4, 76, Surface 12.5 mm - SMA [410-09530]
- Variable Depth Minimum 220 #/Syd. QC/QA-HMA, 4, 76, Intermediate, 12.5 mm
- 1320 #/Syd. QC/QA-HMA, 4, 64, Base, 25.0 mm
- 300 #/Syd. QC/QA-HMA, 4, 76, Intermediate, OG 19.0mm
- 6 in. of Compacted Aggregate, No. 53 on
- Geotextile for Subgrade, Type 2B
- Subgrade Treatment Type 1C



**SECTION A-A**  
SCALE 1" = 30' H  
SCALE 1" = 15' V

**NOTE TO REVIEWER**

Headwall to be designed in future submittals.

**NOTE TO REVIEWER**

Pavement design to be updated upon approval.

**NOTE TO REVIEWER**

Riprap aprons and energy dissipaters to be designed and refined in future submittals.

**DRAFT**  
NOT FOR CONSTRUCTION

|                          |                 |      |
|--------------------------|-----------------|------|
| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: JME            | DRAWN: RPW      |      |
| CHECKED: MCS             | CHECKED: MCS    |      |

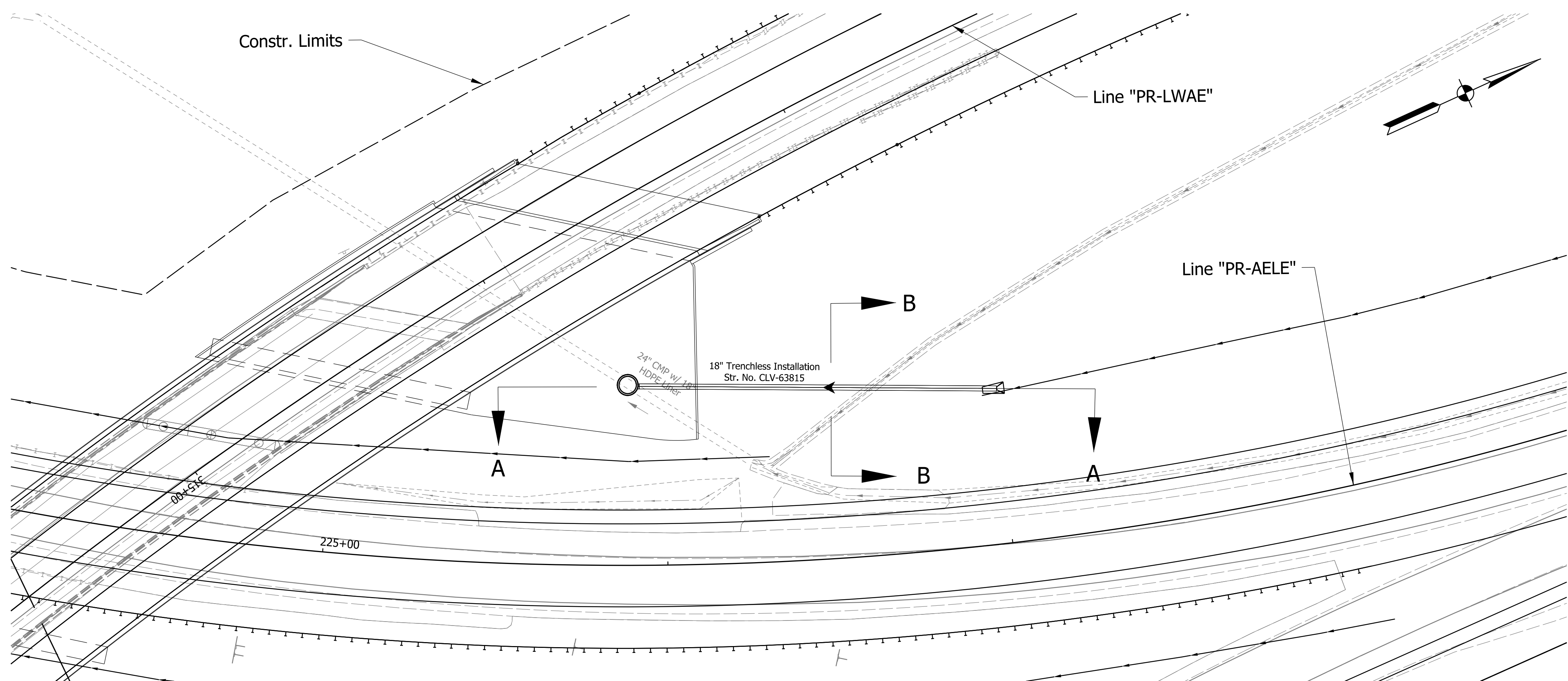
INDIANA DEPARTMENT OF TRANSPORTATION

SMALL STRUCTURE DETAIL  
CV I64-022-121.71 EB

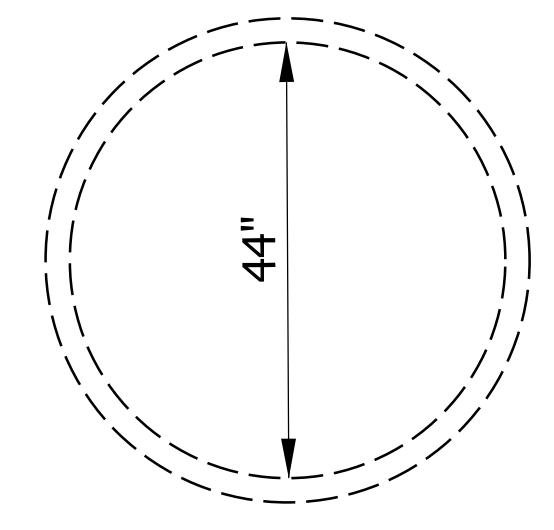
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|------------------|-------------|---------|
| HORIZONTAL SCALE | BRIDGE FILE |         |
| 1"=30'           | N/A         |         |
| VERTICAL SCALE   | DESIGNATION |         |
| 1"=15'           | 1900162     |         |
| SURVEY BOOK      | SHEETS      | SSD-15  |
| ELECTRONIC       | 632         | of 1273 |
| CONTRACT         | PROJECT     |         |
| R-42570          | 1900162     |         |

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**PLAN**  
SCALE 1" = 30'



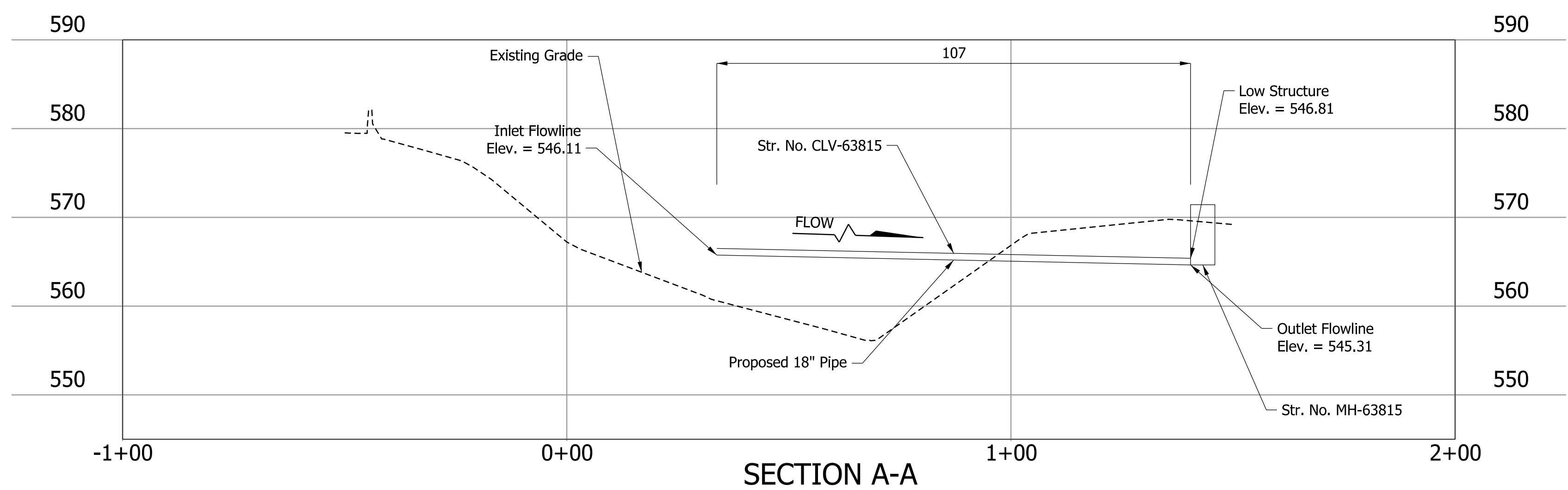
**SECTION B-B**  
N.T.S.

**HYDRAULIC DATA**

| DRAINAGE AREA         | XX.X   | ACRES |
|-----------------------|--------|-------|
| Q100 DISCHARGE        | XXX.XX | CFS   |
| Q100 ELEVATION        | XXX.XX | FT    |
| Q100 HEADWATER        | XXX.XX | FT    |
| BACKWATER             | XX.X   | FT    |
| 2% EF OUTLET VELOCITY | XX.X   | FPS   |

**EXISTING STRUCTURE**

EXISTING 24" CORRUGATED METAL PIPE LINED WITH A 18" HIGH DENSITY POLYETHYLENE PIPE, APPROXIMATELY 241' LONG TO REMAIN. PROPOSED 18" CONCRETE PIPE TO BE CONNECTED VIA MANHOLE CONNECTION.



**SECTION A-A**  
SCALE 1" = 20' H  
SCALE 1" = 10' V

**NOTE TO REVIEWER**  
Hydraulic information to be completed in future submittal.

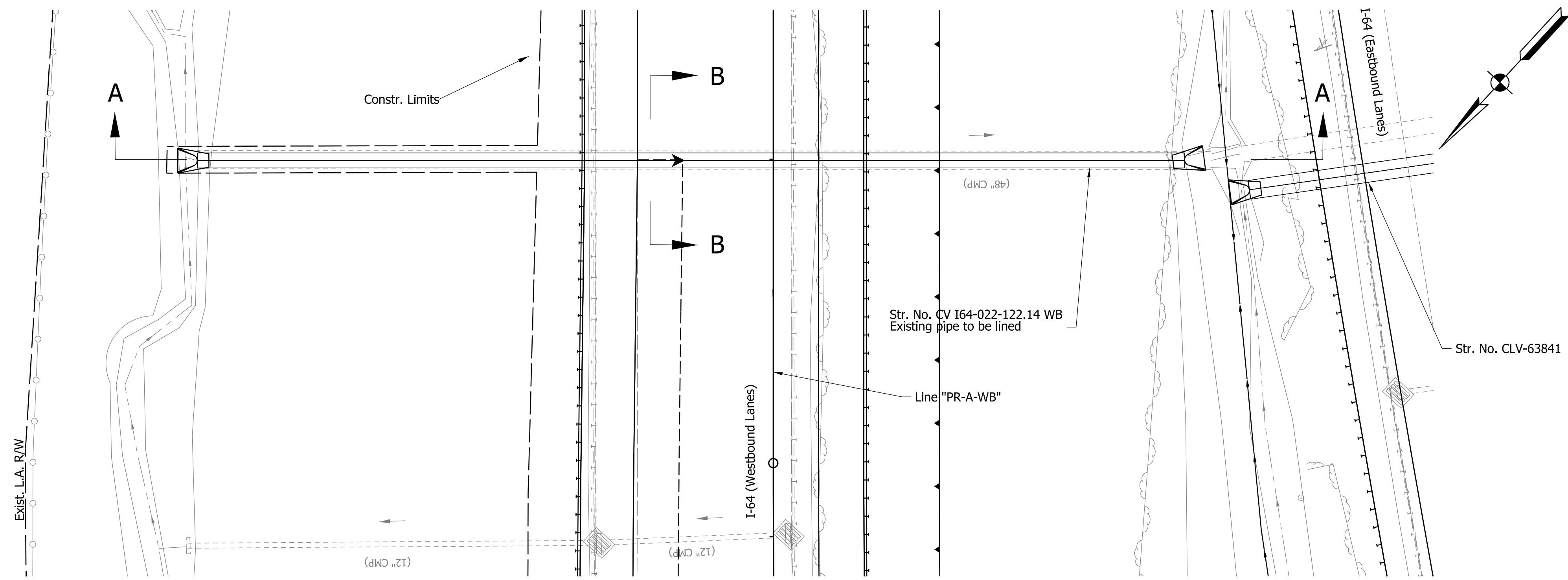
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NOT FOR CONSTRUCTION

|                                |                       |            |
|--------------------------------|-----------------------|------------|
| RECOMMENDED FOR APPROVAL _____ | DESIGN ENGINEER _____ | DATE _____ |
| DESIGNED: JME                  | DRAWN: RPW            |            |
| CHECKED: MCS                   | CHECKED: MCS          |            |

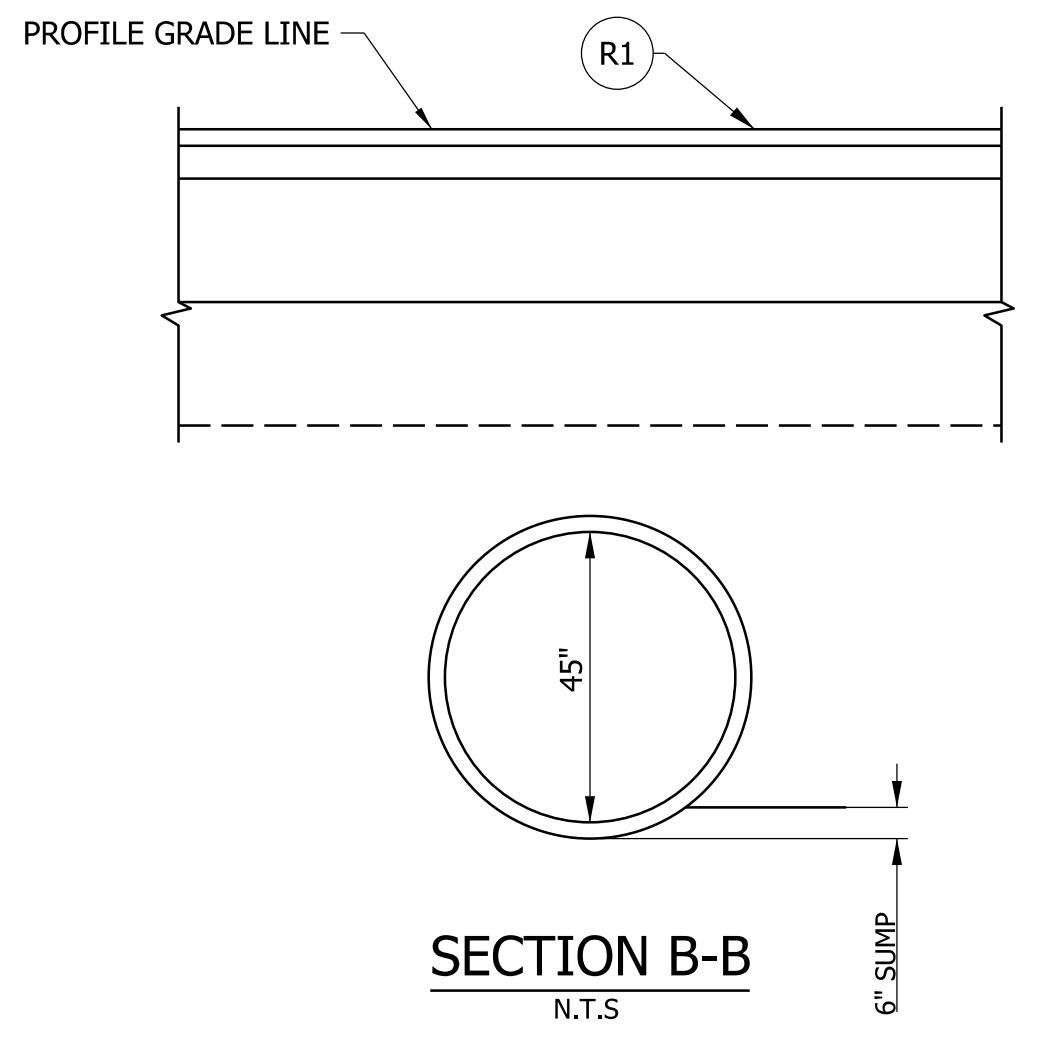
INDIANA DEPARTMENT OF TRANSPORTATION  
**SMALL STRUCTURE DETAIL**  
CLV-63815

|                  |               |
|------------------|---------------|
| HORIZONTAL SCALE | BRIDGE FILE   |
| 1"=20'           | N/A           |
| VERTICAL SCALE   | DESIGNATION   |
| 1"=10'           | 1900162       |
| SURVEY BOOK      | SHEETS SSD-16 |
| ELECTRONIC       | 633 of 1273   |
| CONTRACT         | PROJECT       |
| R-42570          | 1900162       |

rstriegel  
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**PLAN**  
SCALE 1" = 20'

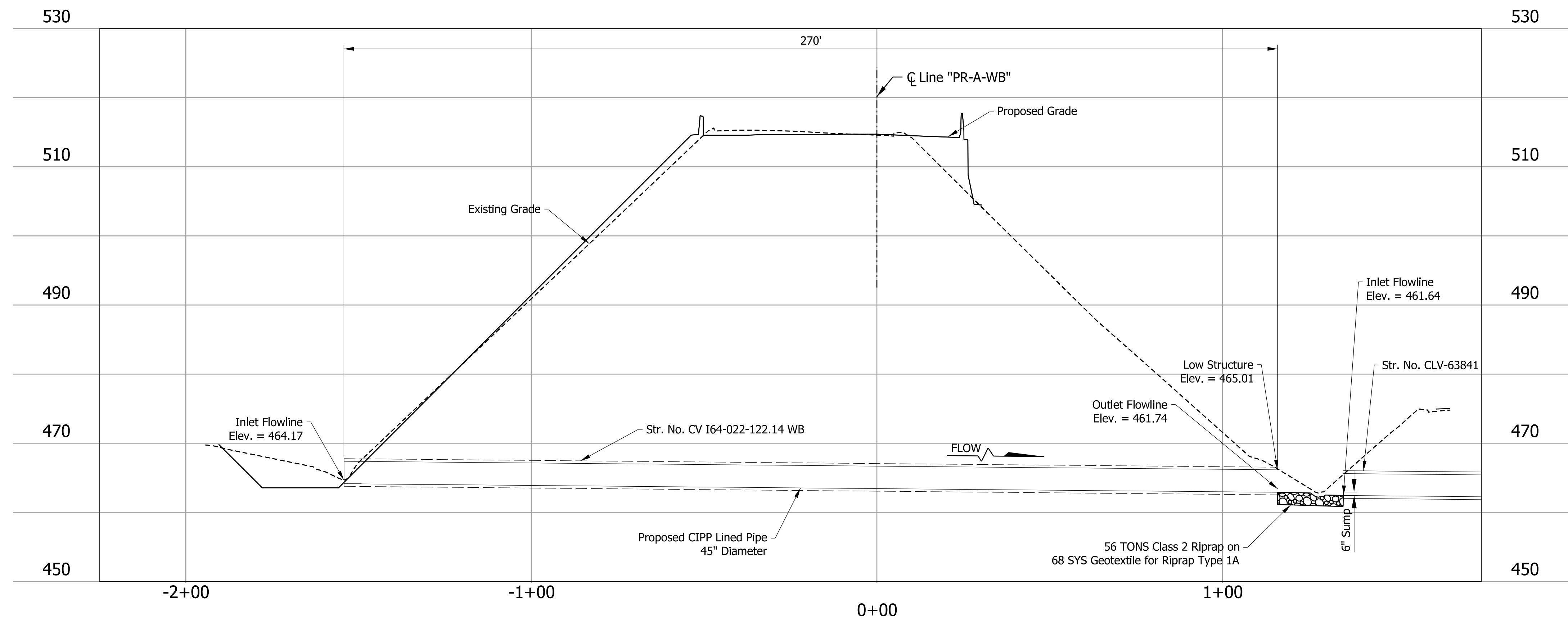


**HYDRAULIC DATA**

|                       |        |       |
|-----------------------|--------|-------|
| DRAINAGE AREA         | 29.0   | ACRES |
| O100 DISCHARGE        | 89.8   | CFS   |
| O100 ELEVATION        | 467.25 | FT    |
| O100 HEADWATER        | 470.23 | FT    |
| BACKWATER             | 1.65   | FT    |
| 2% EP OUTLET VELOCITY | 9.47   | FPS   |

**EXISTING STRUCTURE**

EXISTING 48" CORRUGATED METAL PIPE, APPROXIMATELY 269' LONG, TO BE LINED



**SECTION A-A**  
SCALE 1" = 20' H  
SCALE 1" = 10' V

(R1) Milling, Asphalt, 2 Inches, then 220 #/Syd. QC/QA-HMA, 4, 76, Surface 12.5 mm - SMA [410-09530] 220 #/Syd. QC/QA-HMA, 4, 76, Intermediate, 12.5 mm

**NOTE TO REVIEWER**  
Pavement design to be updated upon approval.

**NOTE TO REVIEWER**  
Bore Pits for trenchless pipe install to be shown in future submittals.

**NOTE TO REVIEWER**  
Headwall to be refined in future submittals.

**NOTE TO REVIEWER**  
Riprap aprons and energy dissipaters to be designed and refined in future submittals.

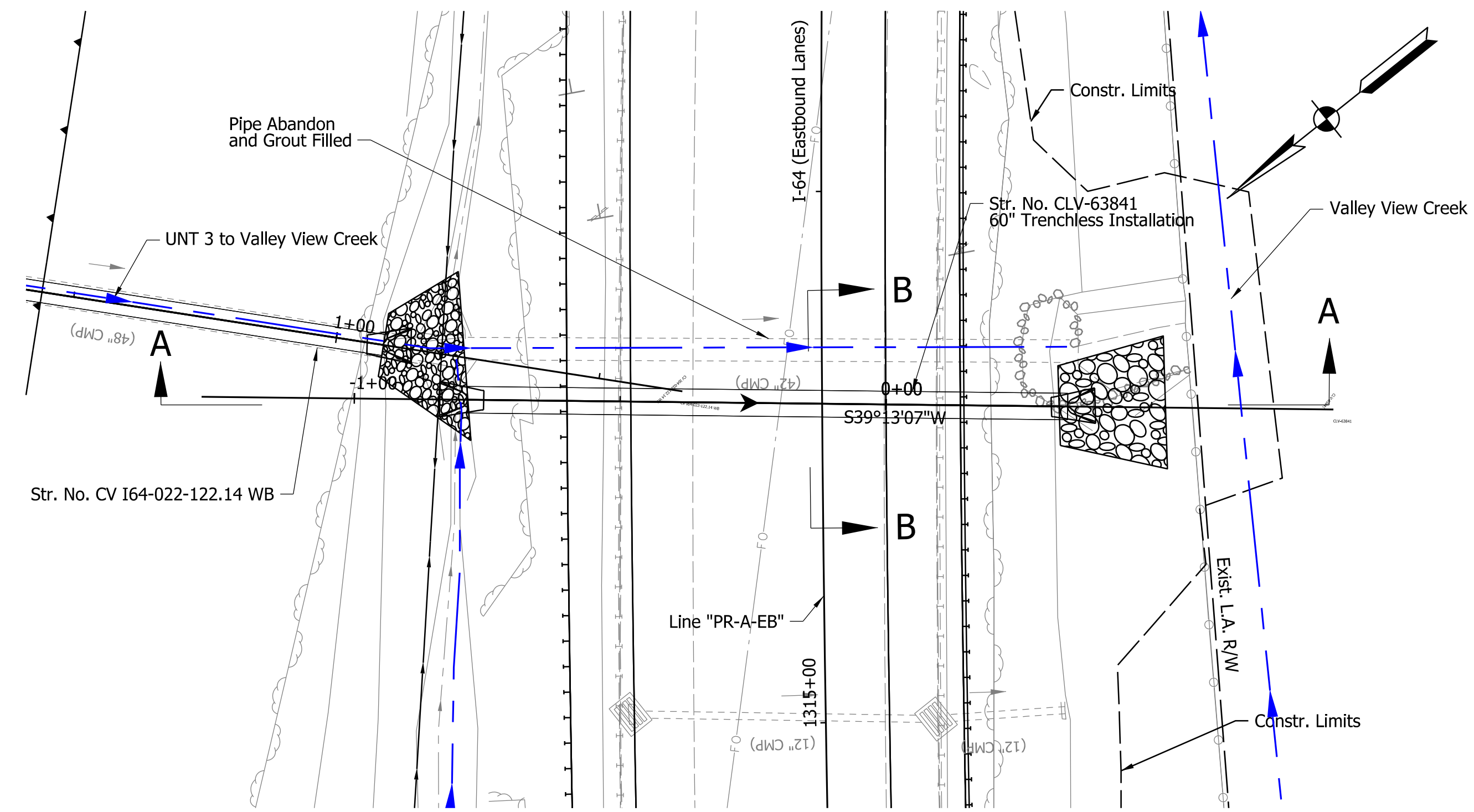
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NOT FOR CONSTRUCTION

|                          |                 |      |
|--------------------------|-----------------|------|
| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: JME            | DRAWN: KCM      |      |
| CHECKED: MCS             | CHECKED: MCS    |      |

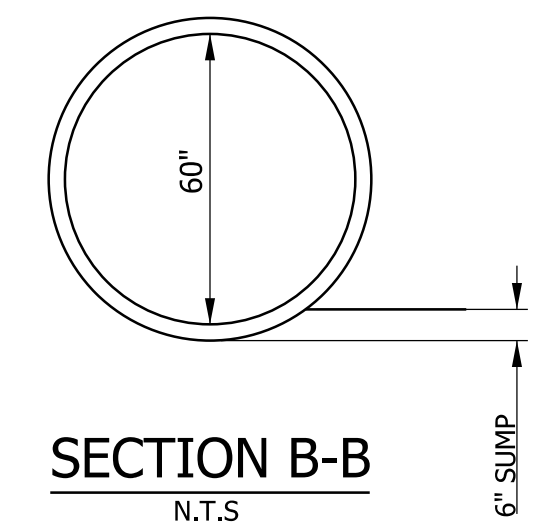
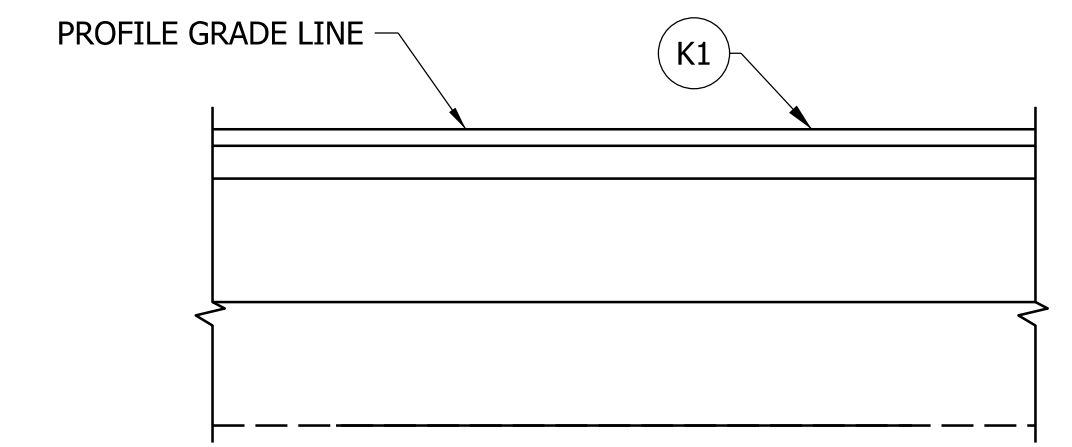
INDIANA DEPARTMENT OF TRANSPORTATION  
**SMALL STRUCTURE DETAIL**  
CV I64-022-122.14 WB

|                  |               |
|------------------|---------------|
| HORIZONTAL SCALE | BRIDGE FILE   |
| 1"=20'           | N/A           |
| VERTICAL SCALE   | DESIGNATION   |
| 1"=10'           | 1900162       |
| SURVEY BOOK      | SHEETS SSD-17 |
| ELECTRONIC       | 634 of 1273   |
| CONTRACT         | PROJECT       |
| R-42570          | 1900162       |

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**PLAN**  
SCALE 1" = 20'

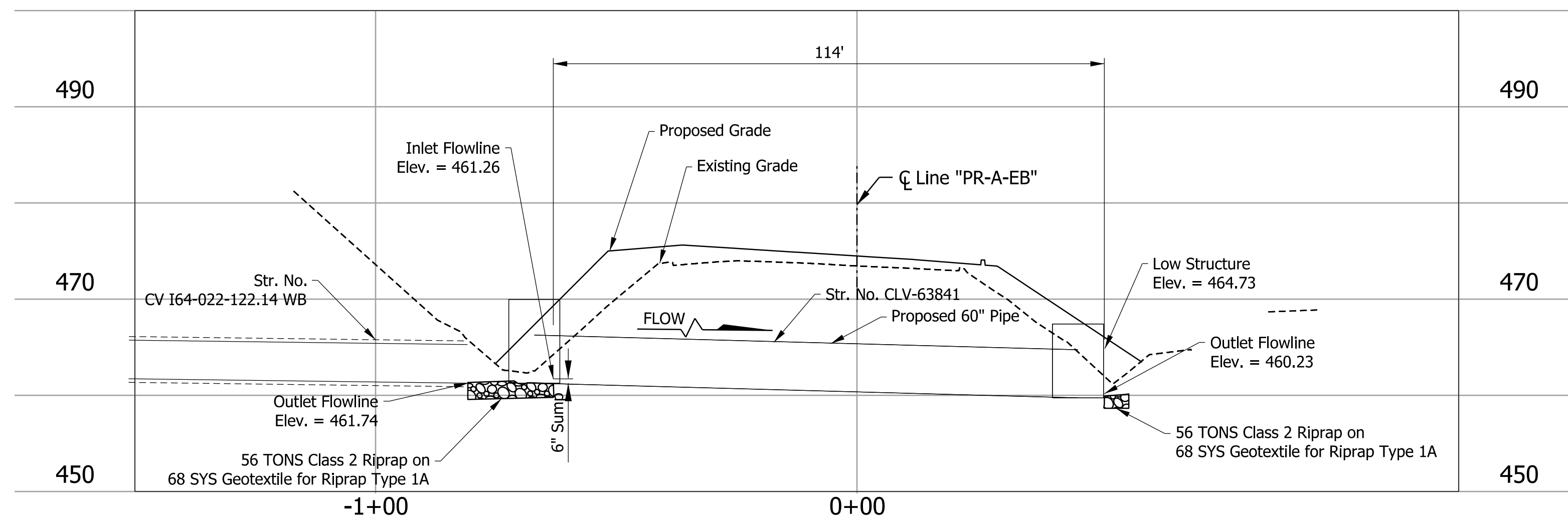


**HYDRAULIC DATA**

|                       |        |       |
|-----------------------|--------|-------|
| DRAINAGE AREA         | 49.60  | ACRES |
| Q100 DISCHARGE        | 146    | CFS   |
| Q100 ELEVATION        | 463.47 | FT    |
| Q100 HEADWATER        | 470.42 | FT    |
| BACKWATER             | 2.71   | FT    |
| 2% EP OUTLET VELOCITY | 10.83  | FPS   |

**EXISTING STRUCTURE**

EXISTING 42" CORRUGATED METAL PIPE, APPROXIMATELY 114' LONG, TO BE GROUT FILLED



**SECTION A-A**  
SCALE 1" = 20' H  
SCALE 1" = 10' V

(K1) 220 #/Syd. QC/QA-HMA, 4, 76, Surface 12.5 mm - SMA [410-09530]  
Variable Depth Minimum 220 #/Syd. QC/QA-HMA, 4, 76, Intermediate, 12.5 mm  
1320 #/Syd. QC/QA-HMA, 4, 64, Base, 25.0 mm  
300 #/Syd. QC/QA-HMA, 4, 76, Intermediate, OG 19.0mm  
6 in. of Compacted Aggregate, No. 53 on  
Geotextile for Subgrade, Type 2B  
Subgrade Treatment Type 1C

**NOTE TO REVIEWER**  
Pavement design to be updated upon approval.

**NOTE TO REVIEWER**  
Surface modeling to be updated in future submittals.

**NOTE TO REVIEWER**  
Bore Pits for trenchless pipe install to be shown in future submittals.

**NOTE TO REVIEWER**  
Headwall to be refined in future submittals.

**NOTE TO REVIEWER**  
Riprap aprons and energy dissipaters to be designed and refined in future submittals.

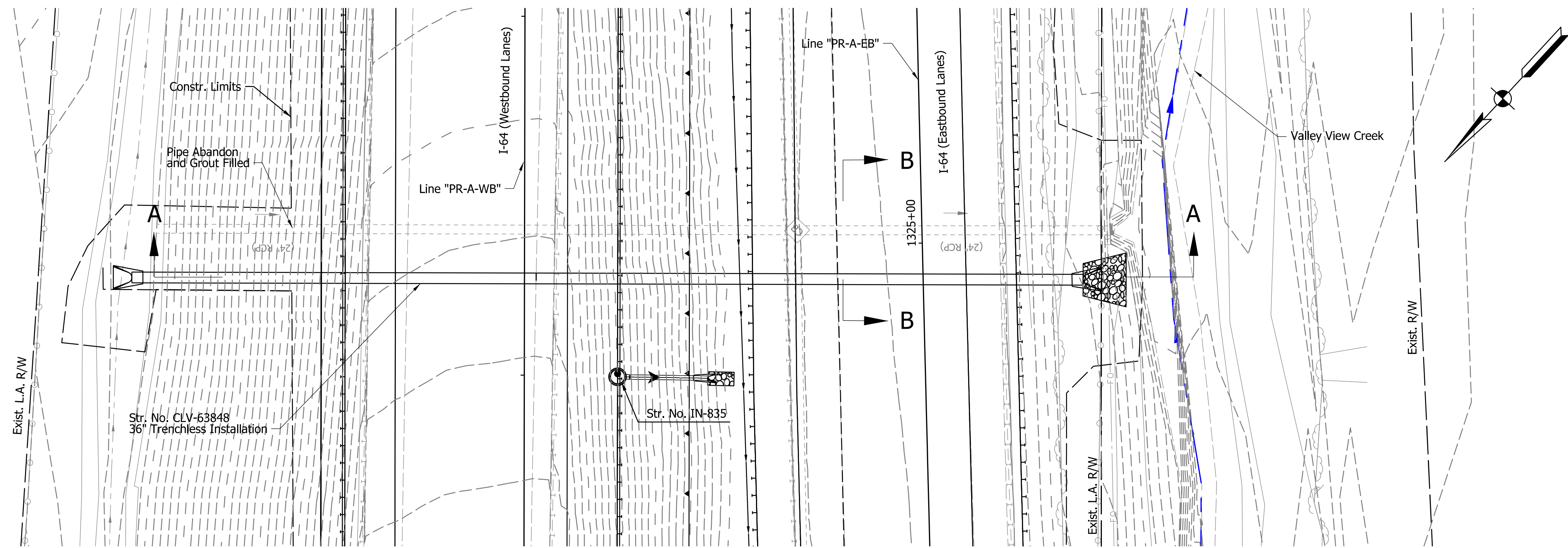
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|                                |                       |            |
|--------------------------------|-----------------------|------------|
| RECOMMENDED FOR APPROVAL _____ | DESIGN ENGINEER _____ | DATE _____ |
| DESIGNED: JME                  | DRAWN: KCM            |            |
| CHECKED: MCS                   | CHECKED: MCS          |            |

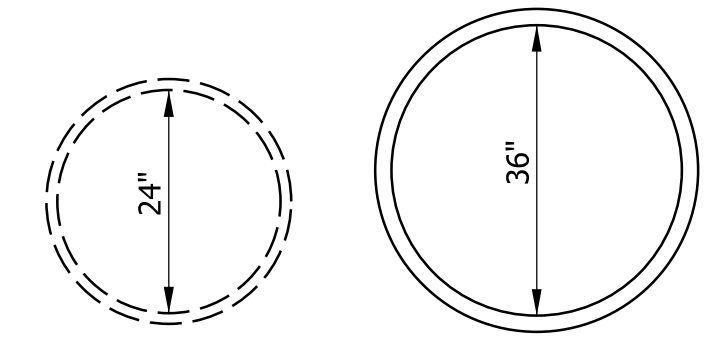
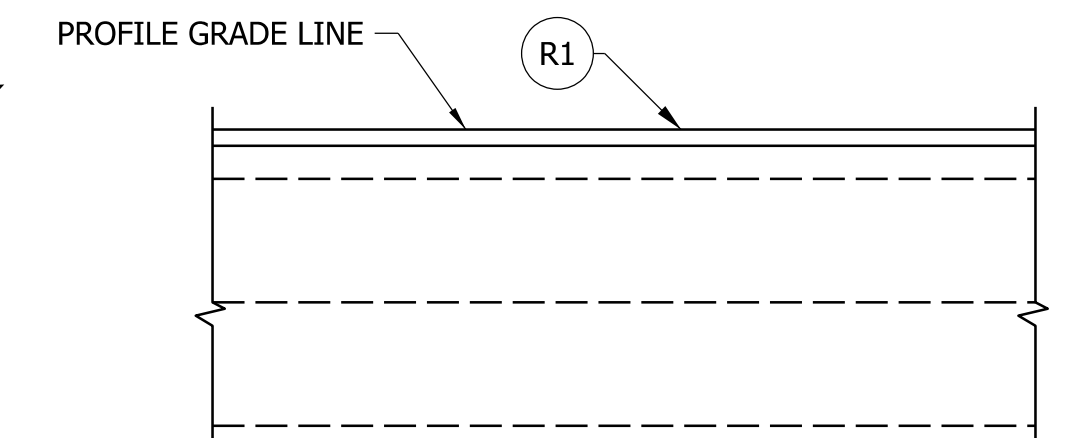
INDIANA DEPARTMENT OF TRANSPORTATION  
**SMALL STRUCTURE DETAIL**  
CLV-63841

|                  |               |
|------------------|---------------|
| HORIZONTAL SCALE | BRIDGE FILE   |
| 1"=20'           | N/A           |
| VERTICAL SCALE   | DESIGNATION   |
| 1"=10'           | 1900162       |
| SURVEY BOOK      | SHEETS SSD-18 |
| ELECTRONIC       | 635 of 1273   |
| CONTRACT         | PROJECT       |
| R-42570          | 1900162       |

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**PLAN**  
SCALE 1" = 20'



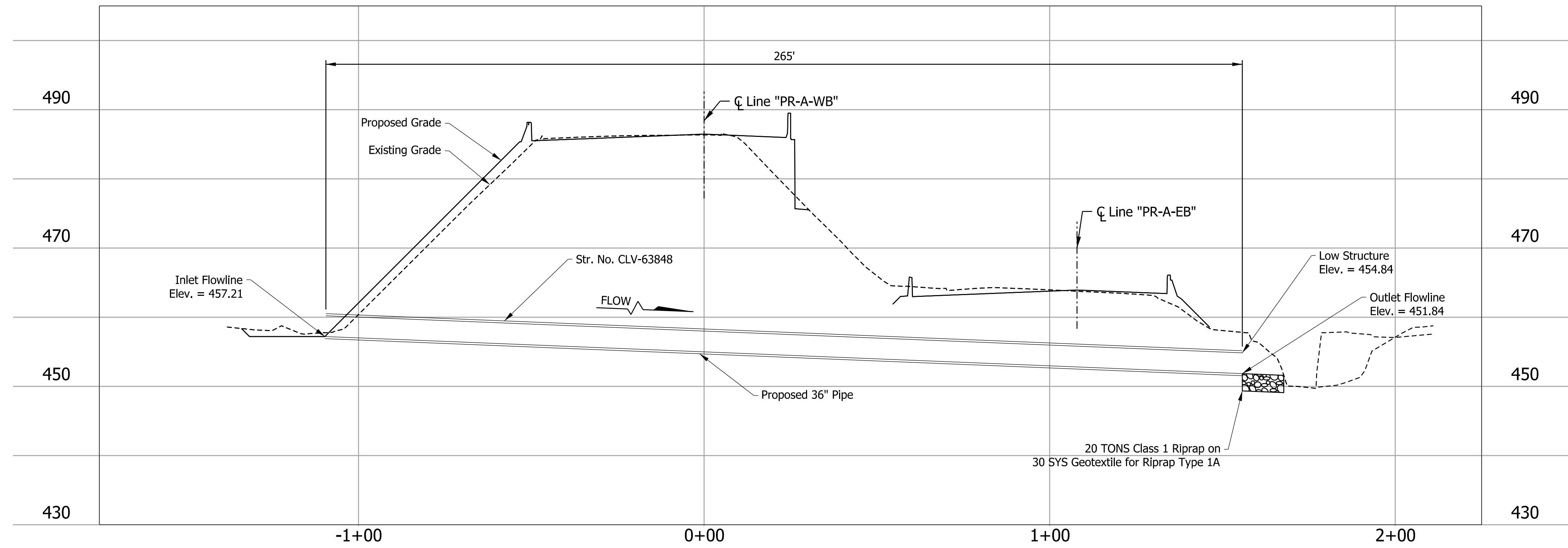
**SECTION B-B**  
N.T.S

**HYDRAULIC DATA**

|                       |        |       |
|-----------------------|--------|-------|
| DRAINAGE AREA         | 5.68   | ACRES |
| O100 DISCHARGE        | 23.0   | CFS   |
| O100 ELEVATION        | 453.05 | FT    |
| O100 HEADWATER        | 459.47 | FT    |
| BACKWATER             | 1.59   | FT    |
| 2% EP OUTLET VELOCITY | 11.70  | FPS   |

**EXISTING STRUCTURE**

EXISTING 24" REINFORCED CONCRETE PIPE, APPROXIMATELY 267' LONG, TO BE GROUT FILLED



**SECTION A-A**  
SCALE 1" = 20' H  
SCALE 1" = 10' V

**NOTE TO REVIEWER**  
Pavement design to be updated upon approval.

**NOTE TO REVIEWER**  
Bore Pits for trenchless pipe install to be shown in future submittals

**NOTE TO REVIEWER**  
Headwall to be designed in future submittals.

**NOTE TO REVIEWER**  
Riprap aprons and energy dissipaters to be designed and refined in future submittals.

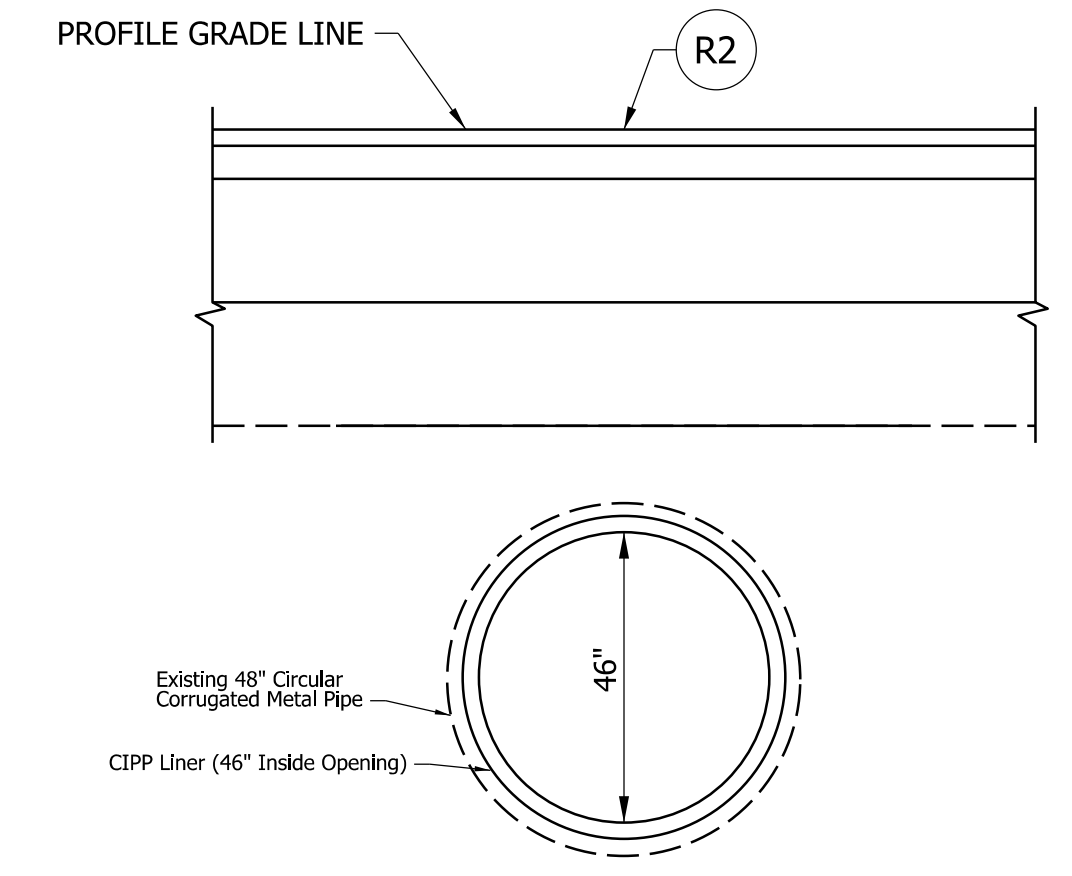
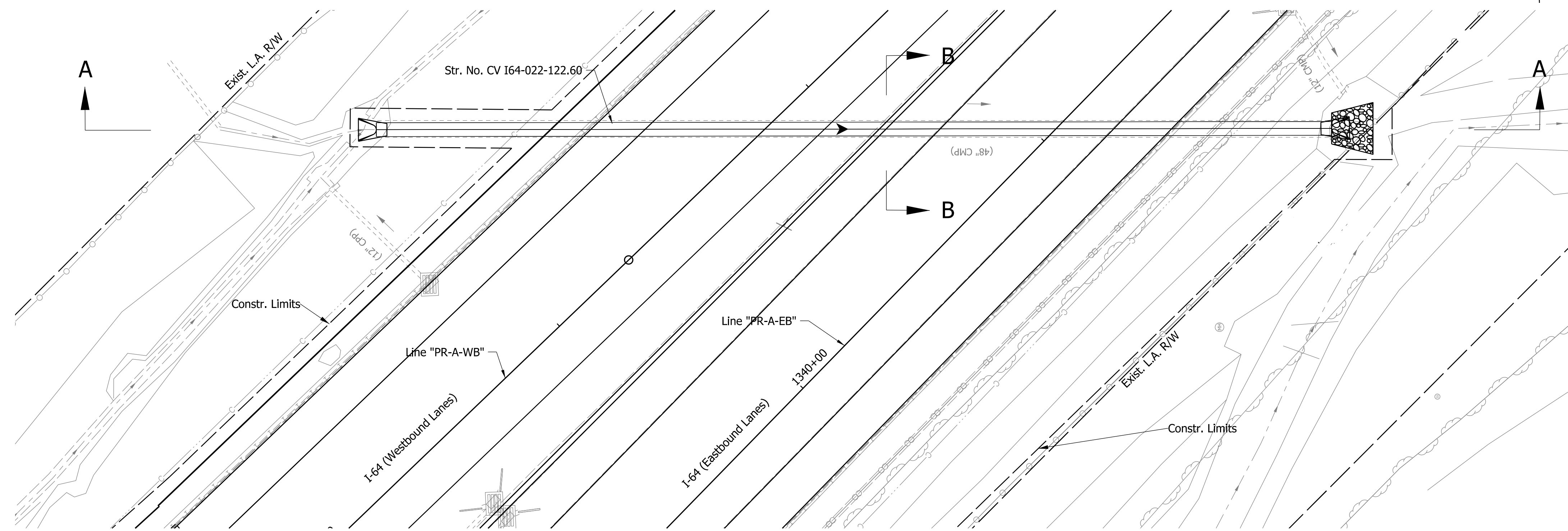
**DRAFT**  
NOT FOR CONSTRUCTION

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|--------------------------|-----------------|------|
| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: SAD            | DRAWN: JP       |      |
| CHECKED: JMB             | CHECKED: JMB    |      |

INDIANA DEPARTMENT OF TRANSPORTATION  
**SMALL STRUCTURE DETAIL**  
CLV-63848

|                  |               |
|------------------|---------------|
| HORIZONTAL SCALE | BRIDGE FILE   |
| 1"=20'           | N/A           |
| VERTICAL SCALE   | DESIGNATION   |
| 1"=10'           | 1900162       |
| SURVEY BOOK      | SHEETS SSD-19 |
| ELECTRONIC       | 636 of 1273   |
| CONTRACT         | PROJECT       |
| R-42570          | 1900162       |

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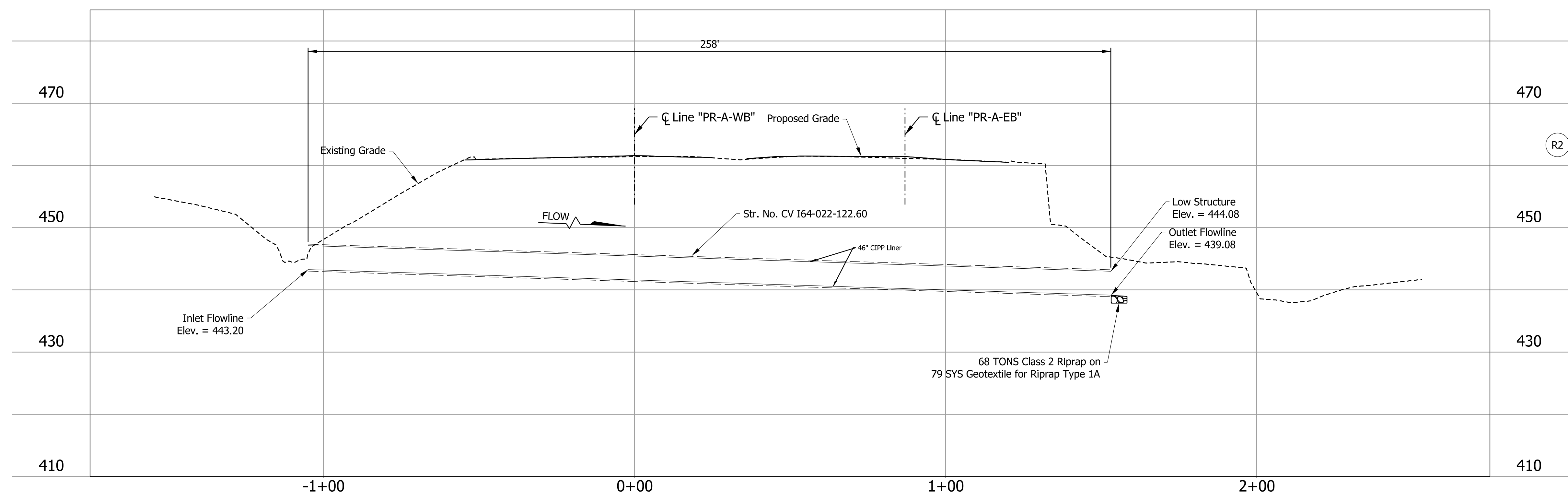


**HYDRAULIC DATA**

|                       |        |       |
|-----------------------|--------|-------|
| DRAINAGE AREA         | 106.2  | ACRES |
| Q100 DISCHARGE        | 171    | CFS   |
| Q100 ELEVATION        | 442.99 | FT    |
| Q100 HEADWATER        | 456.59 | FT    |
| BACKWATER             | 9.67   | FT    |
| 2% EP OUTLET VELOCITY | 16.62  | FPS   |

**EXISTING STRUCTURE**

EXISTING 48" CORRUGATED METAL PIPE, APPROXIMATELY 277' LONG, TO BE LINED



(R2) Milling, Asphalt, 2 Inches, then 220 #/Syd. QC/QA-HMA, 4, 76, Surface 12.5 mm - SMA [410-09530]

**NOTE TO REVIEWER**

Riprap aprons and energy dissipaters to be designed and refined in future submittals.

**NOTE TO REVIEWER**

Bore Pits for trenchless pipe install to be shown in future submittals

**NOTE TO REVIEWER**

Pavement design to be updated upon approval.

**NOTE TO REVIEWER**

Headwall to be refined in future submittals.

**DRAFT**  
NOT FOR CONSTRUCTION

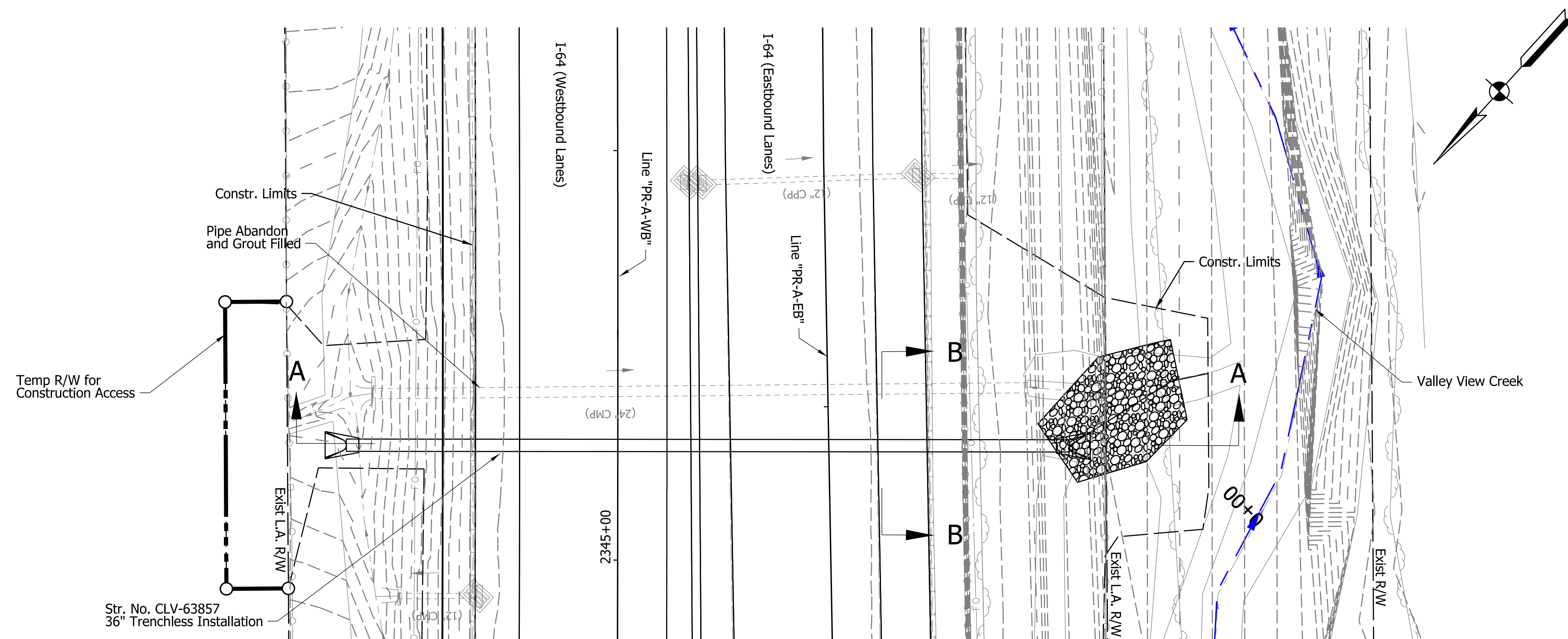
|                          |                 |      |
|--------------------------|-----------------|------|
| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: JME            | DRAWN: KCM      |      |
| CHECKED: MCS             | CHECKED: MCS    |      |

INDIANA DEPARTMENT OF TRANSPORTATION

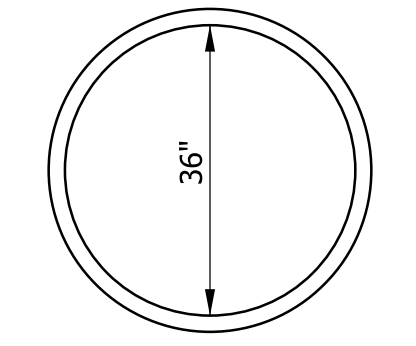
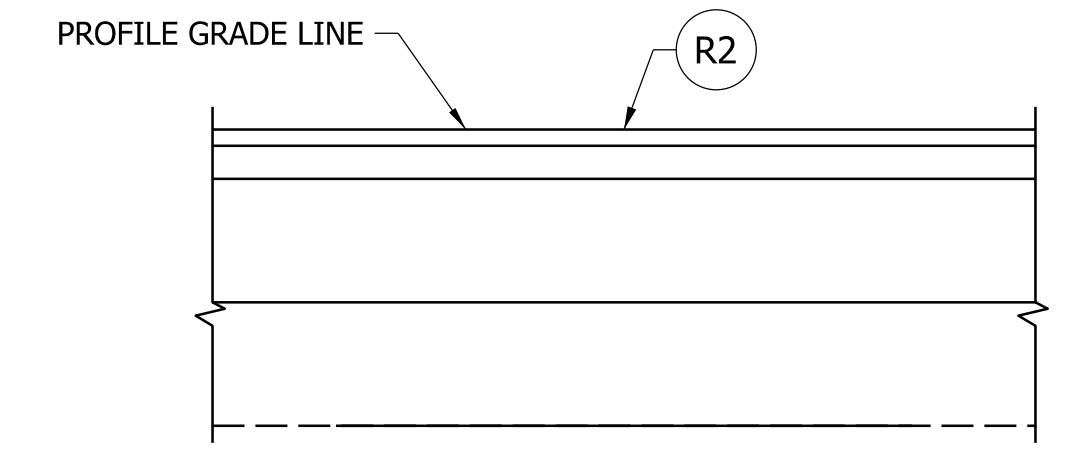
SMALL STRUCTURE DETAIL  
CV 164-022-122.60

|                  |             |         |
|------------------|-------------|---------|
| HORIZONTAL SCALE | BRIDGE FILE |         |
| 1"=20'           | N/A         |         |
| VERTICAL SCALE   | DESIGNATION |         |
| 1"=10'           | 1900162     |         |
| SURVEY BOOK      | SHEETS      | SSD-20  |
| ELECTRONIC       | 637         | of 1273 |
| CONTRACT         | PROJECT     |         |
| R-42570          | 1900162     |         |

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**PLAN**  
SCALE 1" = 20'



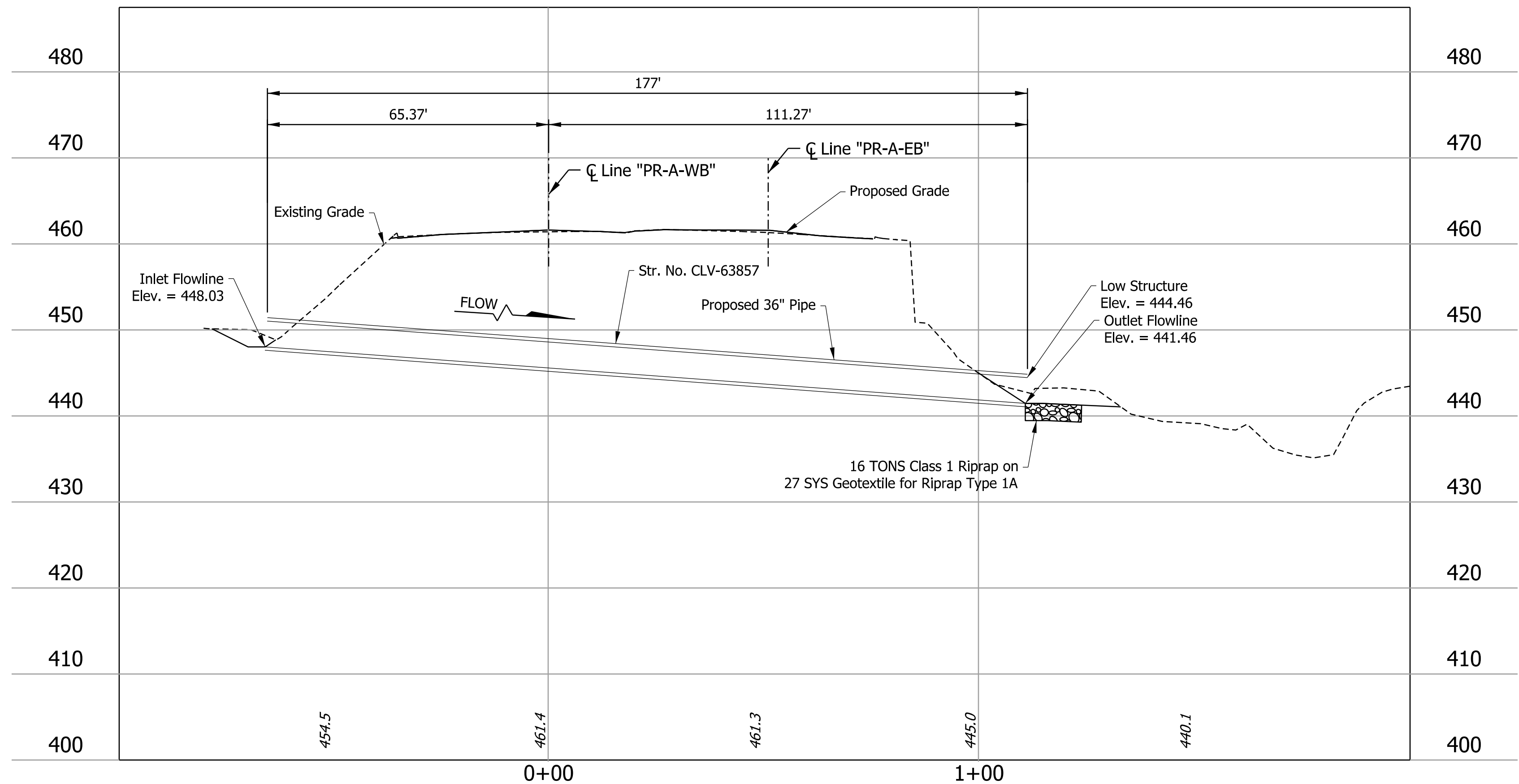
**SECTION B-B**  
N.T.S

**HYDRAULIC DATA**

|                       |        |       |
|-----------------------|--------|-------|
| DRAINAGE AREA         | 4.14   | ACRES |
| Q100 DISCHARGE        | 18     | CFS   |
| Q100 ELEVATION        | 442.48 | FT    |
| Q100 HEADWATER        | 450.06 | FT    |
| BACKWATER             | 1.01   | FT    |
| 2% EP OUTLET VELOCITY | 8.21   | FPS   |

**EXISTING STRUCTURE**

EXISTING 24" CORRUGATED METAL PIPE, APPROXIMATELY 160' LONG, TO BE GROUT FILLED



R2 Milling, Asphalt, 2 Inches, then 220 #/Syd. QC/QA-HMA, 4, 76, Surface 12.5 mm - SMA [410-09530]

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**NOTE TO REVIEWER**  
Bore Pits for trenchless pipe install to be shown in future submittals

**NOTE TO REVIEWER**  
Pavement design to be updated upon approval.

**NOTE TO REVIEWER**  
Riprap aprons and energy dissipaters to be designed and refined in future submittals.

**DRAFT**  
NOT FOR CONSTRUCTION

|                          |                 |      |
|--------------------------|-----------------|------|
| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: SAD            | DRAWN: JP       |      |
| CHECKED: JMB             | CHECKED: JMB    |      |

INDIANA DEPARTMENT OF TRANSPORTATION  
**SMALL STRUCTURE DETAIL**  
CLV-63857

|                  |             |         |
|------------------|-------------|---------|
| HORIZONTAL SCALE | BRIDGE FILE |         |
| 1"=20'           | N/A         |         |
| VERTICAL SCALE   | DESIGNATION |         |
| 1"=10'           | 1900162     |         |
| SURVEY BOOK      | SHEETS      | SSD-21  |
| ELECTRONIC       | 638         | of 1273 |
| CONTRACT         | PROJECT     |         |
| R-42570          | 1900162     |         |

CONTRACT NO. R-42570

INDIANA DEPARTMENT OF TRANSPORTATION

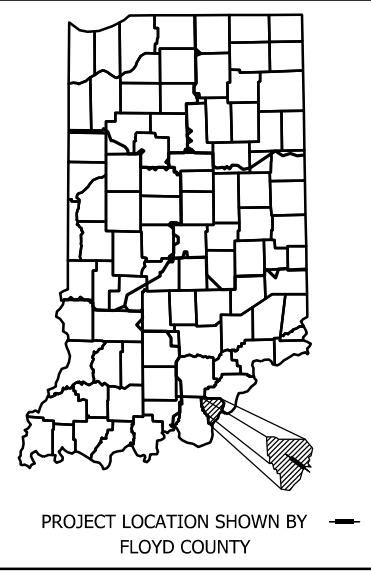
**BRIDGE PREVENTIVE MAINTENANCE PLANS**

**BRIDGE PAINTING**

PROJECT NO. 1800706 (EB) CONST.  
PROJECT NO. 1800405 (WB) CONST.

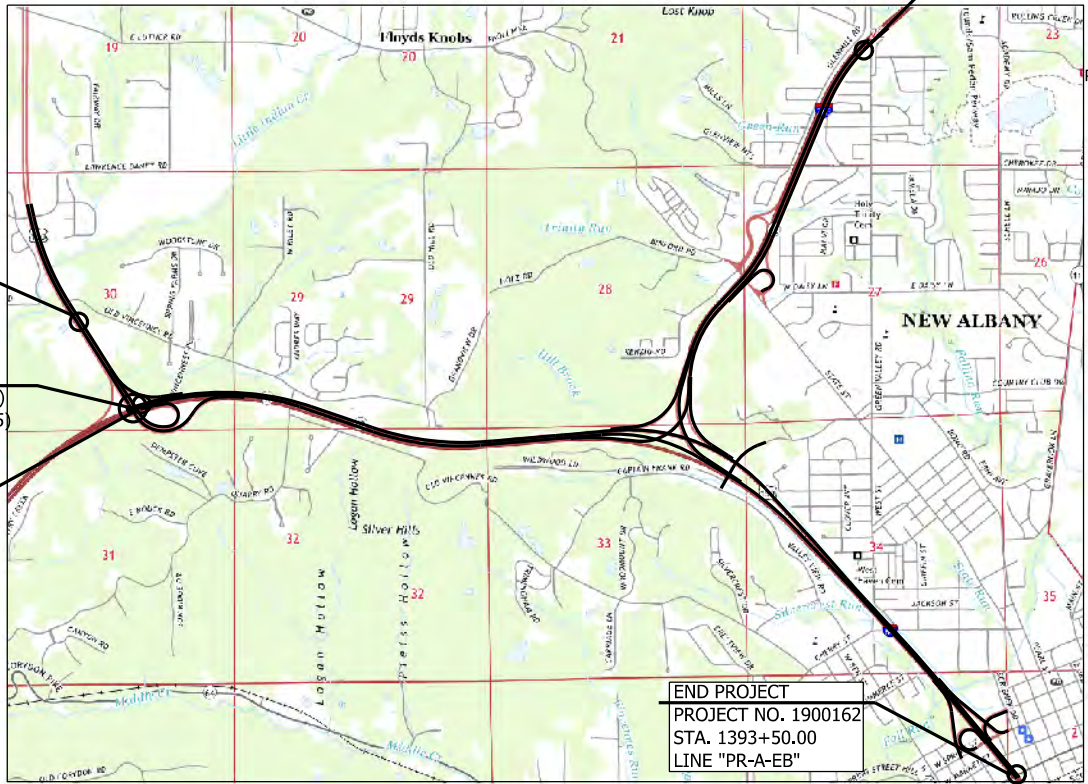
NOTE: SEE INDEX FOR KIN TABLE

**STAGE 2 PLANS**

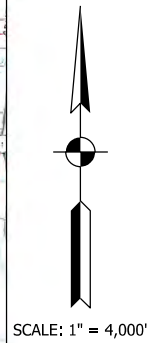


PROJECT LOCATION  
U.S. 150 over I-64, 8.81 miles East of S.R. 335 in Section 30, T-2-S, R-6-E, in Lafayette Township, Floyd County, IN

|           |                        |
|-----------|------------------------|
| US 150 EB | LATITUDE: 38°18'11" N  |
|           | LONGITUDE: 85°53'25" W |
| US 150 WB | LATITUDE: 38°18'12" N  |
|           | LONGITUDE: 85°53'24" W |



PLANS PREPARED BY: SJCA Inc.  
PHONE NUMBER: 317-566-0629



Date: \_\_\_\_\_

Indiana Department of Transportation  
Standard Specifications dated 2022  
to be used with these plans.

**LOCATION MAP**  
FLOYD COUNTY

CERTIFIED BY: \_\_\_\_\_

RECOMMENDED FOR LETTING: \_\_\_\_\_  
INDIANA DEPARTMENT OF TRANSPORTATION

**BRIDGE PAINTING LOCATIONS AND INFORMATION**

| Contract Bridge No. | Des No. | Structure Number  | Route Number | NBI Number | Reference Post | County | Feature Crossed | Location      | No. of Spans | Lengths of Structural Steel Spans | Existing Primer Type | Year Last Painted | Year Built | Tons of Structural Steel* | Surface Area Structural Steel (Sft.)* | New Paint Color | Existing Roadway Drain Casting Extensions (Ea.) |
|---------------------|---------|-------------------|--------------|------------|----------------|--------|-----------------|---------------|--------------|-----------------------------------|----------------------|-------------------|------------|---------------------------|---------------------------------------|-----------------|---|
| 1                   | 1800706 | 150-22-04983 AEBL | US 150 EB    | 27640      | 172+05         | Floyd  | I-64 EB/WB      | 8.81 E SR 335 | 4            | 49'-4", 69'-0", 69'-0", 49'-4"    | Hazardous            | 1992              | 1966       | 94.2                      | 11,752                                | Light Blue      | N/A   |
| 2                   | 1800405 | 150-22-04983 AWBL | US 150 WB    | 27650      | 172+05         | Floyd  | I-64 EB/WB      | 8.81 E SR 335 | 4            | 49'-4", 69'-0", 69'-0", 49'-4"    | Hazardous            | 1992              | 1966       | 94.1                      | 11,752                                | Light Blue      | N/A   |
| <b>TOTAL</b>        |         |                   |              |            |                |        |                 |               |              |                                   |                      |                   |            | <b>188</b>                | <b>23,504</b>                         |                 |   |

**BRIDGE PAINTING TABLE**

|                     |              |              |
|---------------------|--------------|--------------|
| DESIGNED BY:<br>KCH | SCALE        | CONTRACT NO. |
|                     | N/A          | R-42570      |
| DRAWN BY:<br>KCH    | DES. NO.     | COUNTY       |
|                     | 1800706 (EB) | FLOYD        |
| CHECKED BY:<br>MJF  | DES. NO.     | DISTRICT     |
|                     | 1800405 (WB) | SEYMOUR      |

Date Approved: \_\_/\_\_/\_\_\_\_

Approved By: \_\_\_\_\_



|          |               |
|----------|---------------|
| PROJECT  | DESIGNATION   |
| 1900162  | 1700207       |
| CONTRACT | BRIDGE FILE   |
| R-42570  | I64-120-10786 |

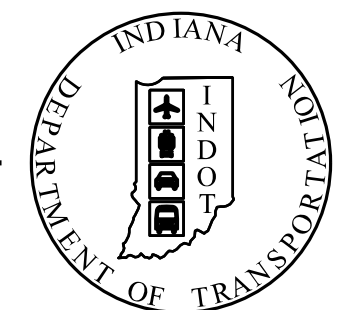
| STRUCTURE INFORMATION |  |                                  |             |                                     |
|-----------------------|--|----------------------------------|-------------|-------------------------------------|
| STRUCTURE             | TYPE                                       | SPAN AND SKEW                    | OVER        | STATION                             |
| I64-120-10786         | COMPOSITE PRESTRESSED BULB-TEE BEAM BRIDGE | 1 SPAN: 89'-0"<br>SKEW: 0°00'00" | QUARRY ROAD | ☉ STA. 1212+69.06<br>LINE "PR-A-EB" |

| KIN PROJECT INFORMATION |   |           |
|-------------------------|---|-----------|
| DESIGNATION             | PROJECT DESCRIPTION   |           |
| ROAD                    |   |           |
| 1900162                 | Added Travel Lanes on I-64  | LEAD DES. |
| 1900366                 | US 150 and Old Vincennes Road (East)                                |           |
| 2100019                 | I-64 Lighting US 150 to I-64 / I-265                                |           |
| BRIDGE                  |   |           |
| 1800706                 | Bridge Painting on US 150 EB over I-64                              | Str. 1    |
| 1800405                 | Bridge Painting on US 150 WB over I-64                              | Str. 2    |
| 1700207                 | Bridge Replacement on I-64 EB over Quarry Road                      | Str. 3    |
| 2200015                 | Bridge Replacement on I-64 WB over Quarry Road                      | Str. 4    |
| 1702617                 | Bridge Replacement on I-64 WB over I-64 Ramp to I-265 EB            | Str. 5A   |
| 2200016                 | Bridge Replacement on I-64 EB over I-64 Ramp to I-265 EB            | Str. 5B   |
| 1800721                 | Bridge Replacement on I-64 WB over I-265 Ramp to I-64 EB            | Str. 6    |
| 2200019                 | Bridge Replacement on I-265 WB to I-64 EB over I-64 EB to I-265 EB  | Str. 7    |
| 2200017                 | Bridge Replacement on I-64 EB over Captain Frank Road               | Str. 8    |
| 2200018                 | Superstructure Replacement on I-64 WB over Captain Frank Road       | Str. 9    |
| 1702614                 | Bridge Deck Overlay on I-64 EB & WB over Cherry Street              | Str. 10   |
| 2000326 / 2000323       | Bridge Deck Replacement and Widening on I-265 EB over State Street  | Str. 11   |
| 2000324                 | Bridge Deck Overlay on I-265 WB over State Street                   | Str. 12   |
| 1700205                 | I-64 WB over SR62 / SR 64   | Str. 14   |
| 1700206                 | I-64 EB over SR62 / SR 64   | Str. 13   |
| 2000144                 | Bridge Deck Overlay on I-64 EB over Yenowine Lane                   | Str. 15   |
| 2000145                 | Bridge Deck Overlay on I-64 WB over Yenowine Lane                   | Str. 16   |
| 2002072                 | US 150 EB over Little Indian Creek                                  | Str. 18   |
| 2002073                 | US 150 WB over Little Indian Creek                                  | Str. 19   |
| 2200719                 | I-64 EB & WB over SR 62 / Spring Street                             | Str. 20   |
| 2200718                 | I-64 WB Off-Ramp to Spring over I-64 WB On-Ramp from Spring         | Str. 21   |
| DRAINAGE                |   |           |
| TBD                     | US 150 Twin Arch Pipe Liner   | Str. 17   |
| TBD                     | Valley View Creek (6 Small Structure and 7 Small Pipe Replacements) |           |
| TBD                     | Valley View Creek CMP Liner   |           |
| TBD                     | UNT to Little Indian Creek CMP Liner                                |           |
| TBD                     | Hill Brook CMP Liner  |           |
| TBD                     | Small Pipes CMP Liners (2)  |           |

**NOTE TO REVIEWER**  
The list of KIN'd projects is tentative and subject to change at INDOT Seymour District's direction. This list represents the current understanding of the contract package.

**STAGE 2 PLANS**

# INDIANA DEPARTMENT OF TRANSPORTATION

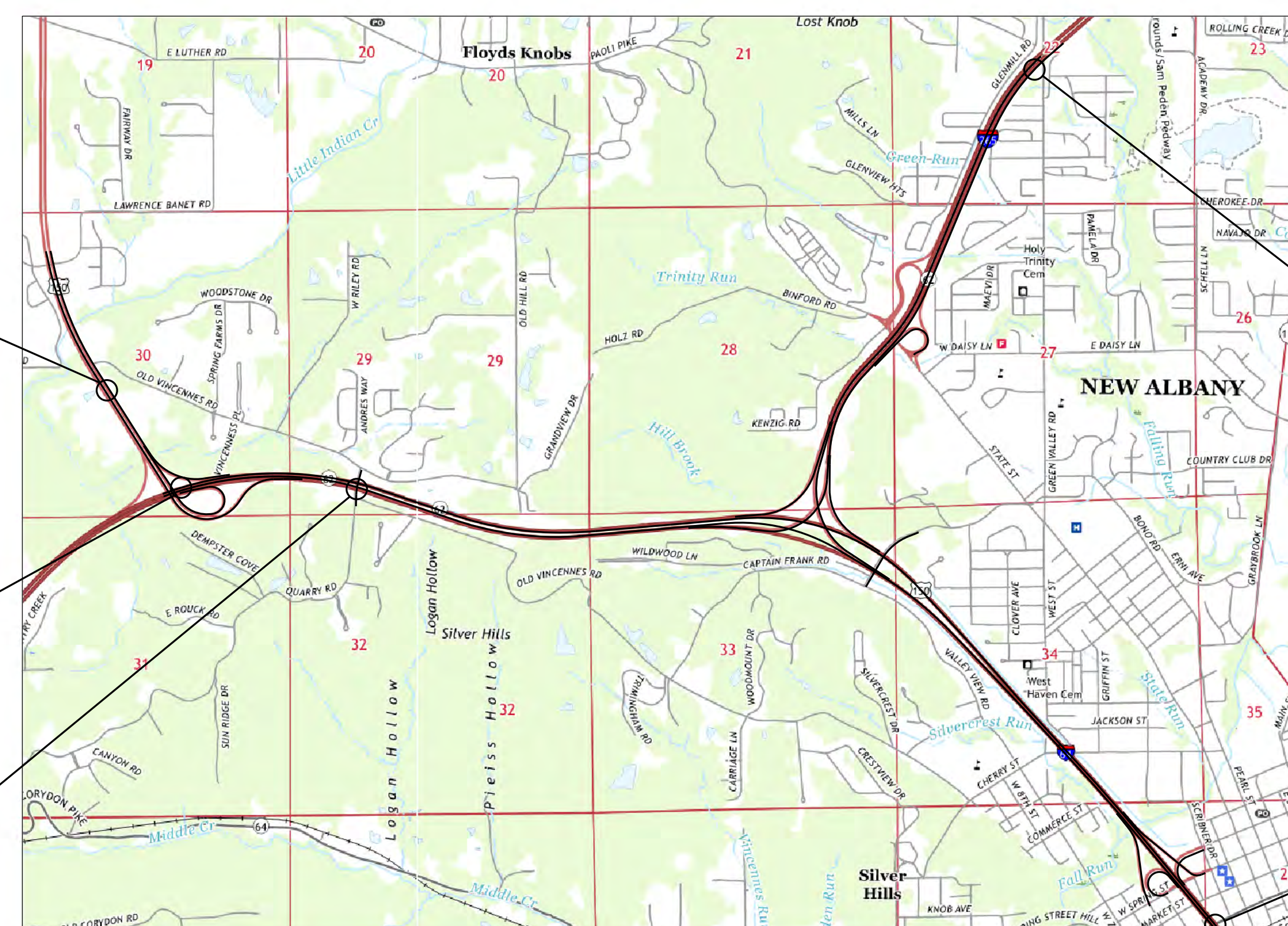


## BRIDGE PLANS

FOR SPANS OVER 20 FEET  
ROUTE : I-64 EB AT: RP 119+944

PROJECT NO. 1700207 P.E.  
1900162 R/W  
1700207 CONST.

BRIDGE REPLACEMENT ON I-64 EB OVER QUARRY ROAD  
LOCATED 0.73 MILES EAST OF US 150 IN  
SECTION 29, T-2-S, R-6-E, NEW ALBANY TOWNSHIP, FLOYD COUNTY, INDIANA



BEGIN CONSTRUCTION  
PROJECT NO. 1900162  
STA. 1025+38.31  
LINE "PR-U-WB"

BEGIN PROJECT  
PROJECT NO. 1900162  
STA. 1180+86.02  
LINE "PR-A-EB"

BRIDGE FILE NO. I64-120-10786  
I-64 EB OVER QUARRY ROAD  
STA. 1212+69.06 LINE "PR-A-EB"

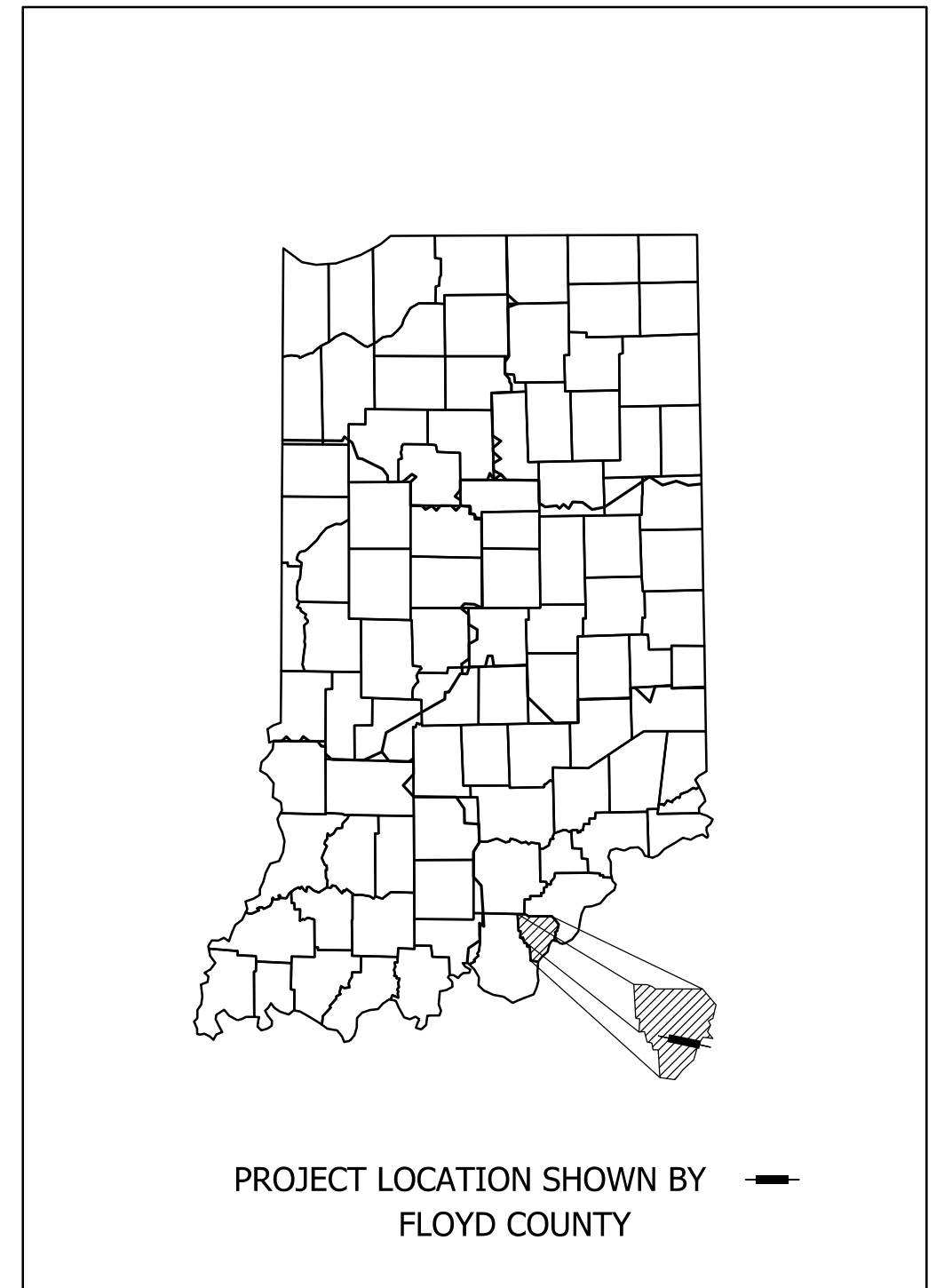
END CONSTRUCTION  
PROJECT NO. 1900162  
STA. 2077+97.42  
LINE "PR-L-EB"

**NOTE TO REVIEWER**  
PLEASE SEE CORRESPONDENCE  
FILE FOR DOCUMENTATION  
OF DESIGN DECISIONS

END PROJECT  
PROJECT NO. 1900162  
STA. 1393+50.00  
LINE "PR-A-EB"

| TRAFFIC DATA             | I-64 MAINLINE | QUARRY ROAD  |
|--------------------------|---------------|--------------|
| A.A.D.T. (2019)          | 69,020 V.P.D. | 1,090 V.P.D. |
| A.A.D.T. (2046)          | 94,560 V.P.D. | 1,440 V.P.D. |
| D.H.V (2046)             | 8,910 V.P.H.  | 170 V.P.H.   |
| DIRECTIONAL DISTRIBUTION | 67%           | 55%          |
| TRUCKS                   | 10%           | 7%           |
|                          | 7% D.H.V.     | 10% D.H.V.   |

| DESIGN DATA               |              |                |
|---------------------------|--------------|----------------|
| DESIGN SPEED              | 70 M.P.H.    |                |
| PROJECT DESIGN CRITERIA   | 4R (FREEWAY) | NO IMPROVEMENT |
| FUNCTIONAL CLASSIFICATION | INTERSTATE   |                |
| RURAL/URBAN               | URBAN        |                |
| TERRAIN                   | ROLLING      |                |
| ACCESS CONTROL            | FULL         |                |



LATITUDE: N 38°18'12" LONGITUDE: W 85°52'44"

BRIDGE LENGTH: 0.017 MI.  
ROADWAY LENGTH: \* MI.  
TOTAL LENGTH: \* MI.  
MAX. GRADE: -2.87 %  
\* SEE DES NO. 1900162

12-DIGIT HYDROLOGIC UNIT CODE: 051401040302

INDIANA DEPARTMENT OF TRANSPORTATION  
STANDARD SPECIFICATIONS DATED 2022  
TO BE USED WITH THESE PLANS

**HNTB**  
HNTB CORPORATION  
THE HNTB COMPANIES  
INFRASTRUCTURE SOLUTIONS  
111 MONUMENT CIRCLE  
SUITE 1200  
INDIANAPOLIS, IN 46204

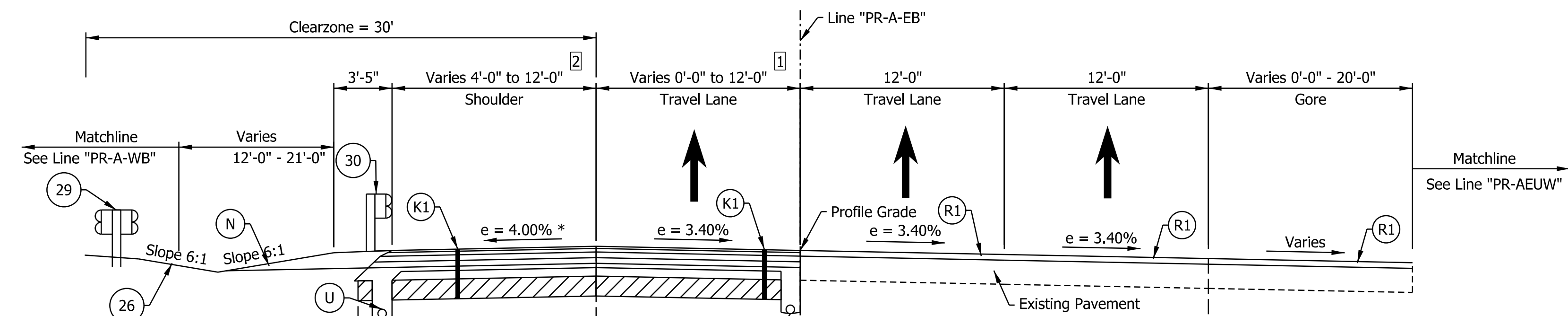
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NOT FOR CONSTRUCTION

PLANS PREPARED BY: HNTB INDIANA, INC (317) 636-4682  
CERTIFIED BY: \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED FOR LETTING: \_\_\_\_\_ DATE \_\_\_\_\_  
INDIANA DEPARTMENT OF TRANSPORTATION

|               |               |
|---------------|---------------|
| BRIDGE FILE   |               |
| I64-120-10786 |               |
| DESIGNATION   |               |
| 1700207       |               |
| SURVEY BOOK   | SHEETS TTL-01 |
| ELECTRONIC    | 1 of 24       |
| CONTRACT      | PROJECT       |
| R-42570       | 1900162       |

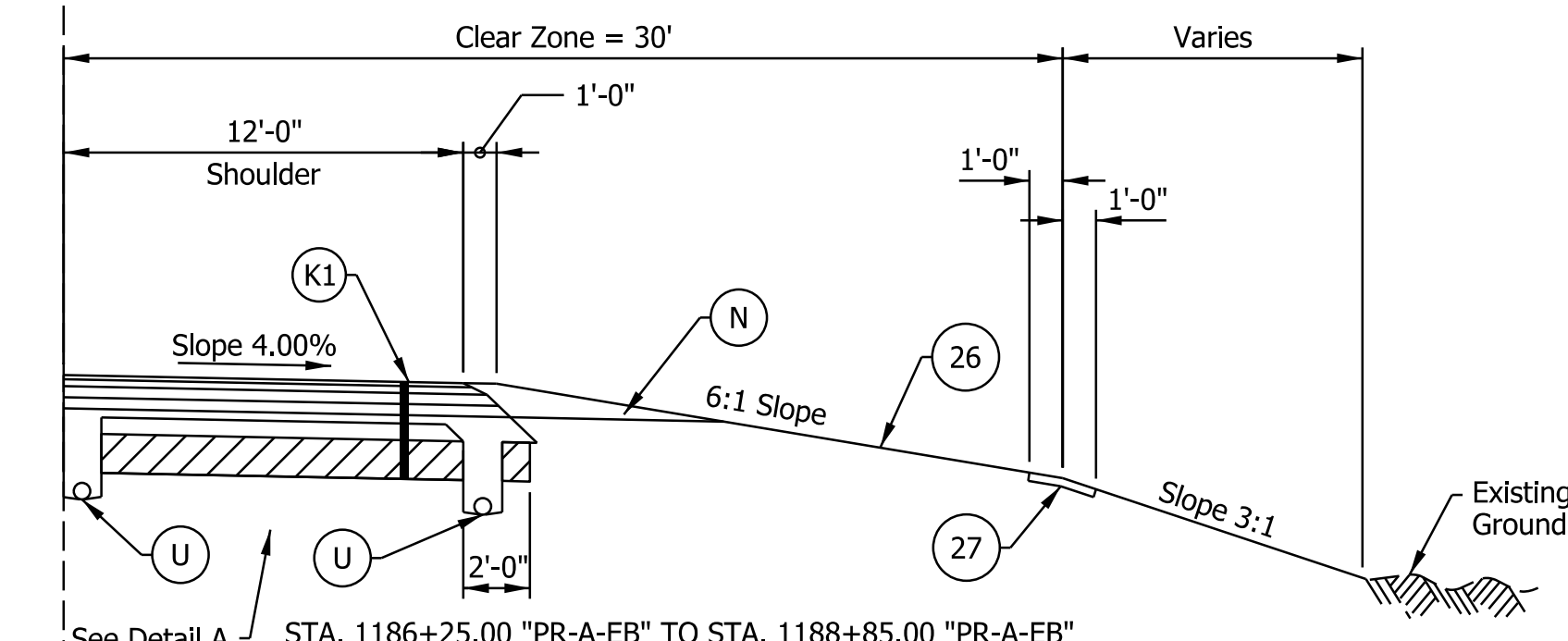
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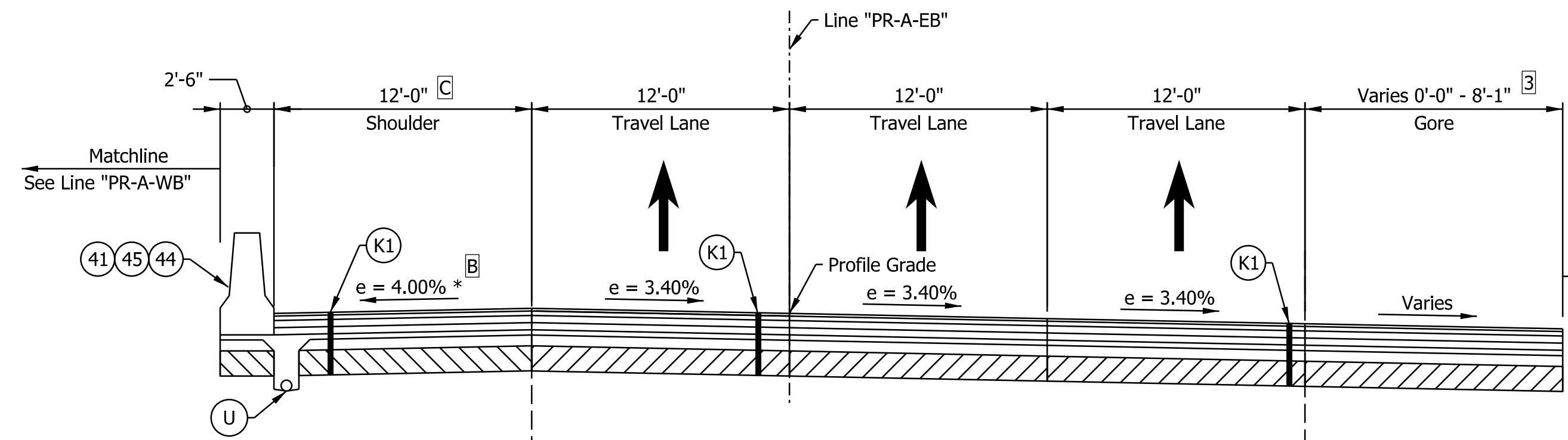
**I-64 EB SUPERELEVATED TYPICAL SECTION**  
 STA. 1180+86.02 "PR-A-EB" TO STA. 1198+00.00 "PR-A-EB"

STA. 1185+50.00 "PR-A-EB" TO STA. 1198+00.00 "PR-A-EB"



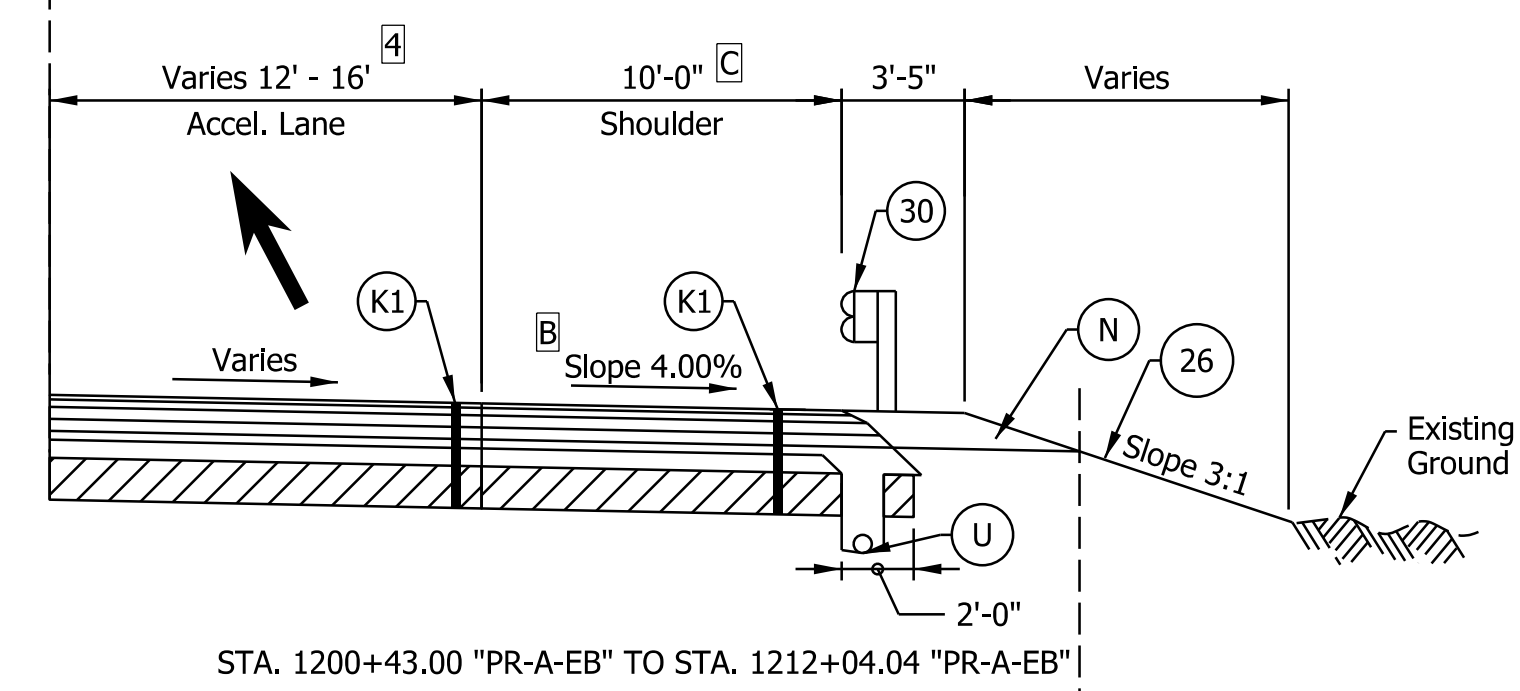
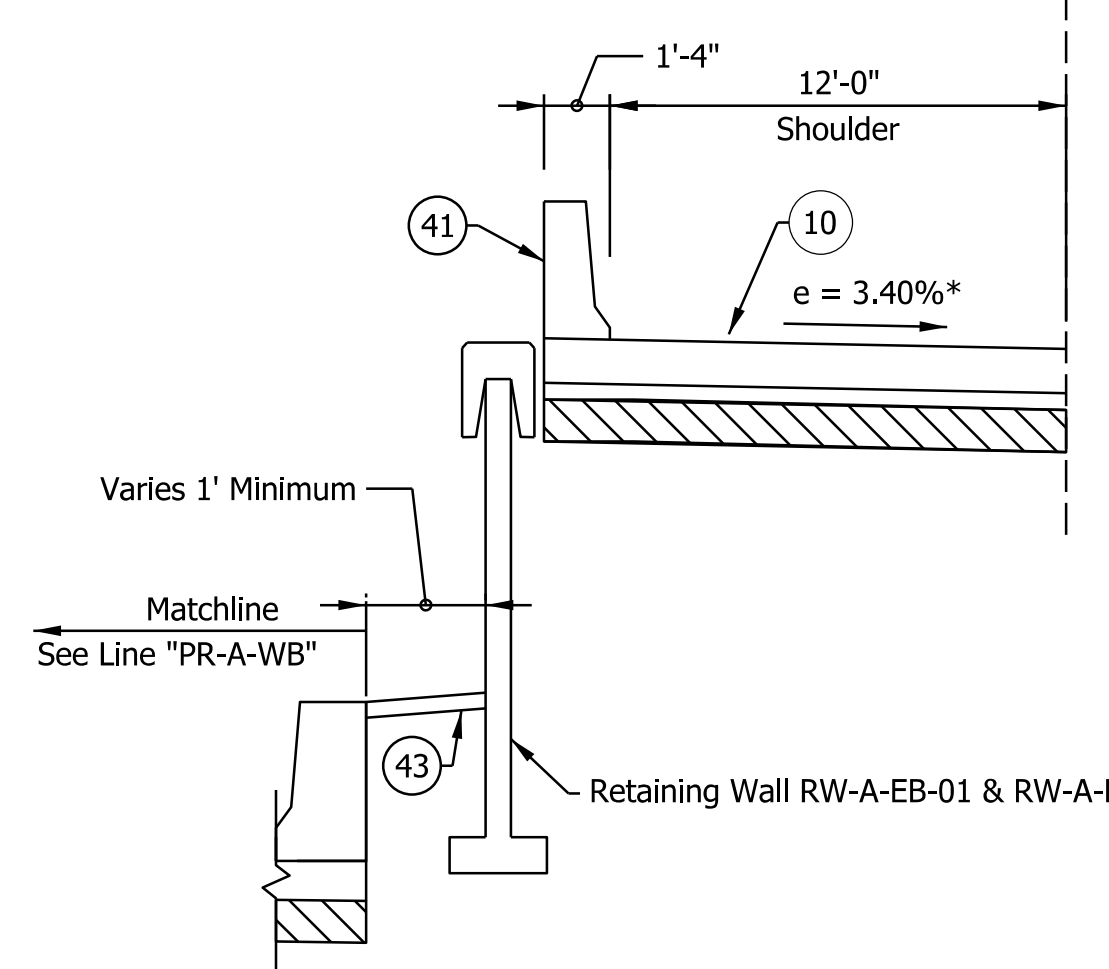
**TYPICAL DITCH CONDITION**

**NOTE TO REVIEWER**  
 Level 2 design exception will be requested for barrier offset widths on the outside shoulder set to the minimum of 0-feet.

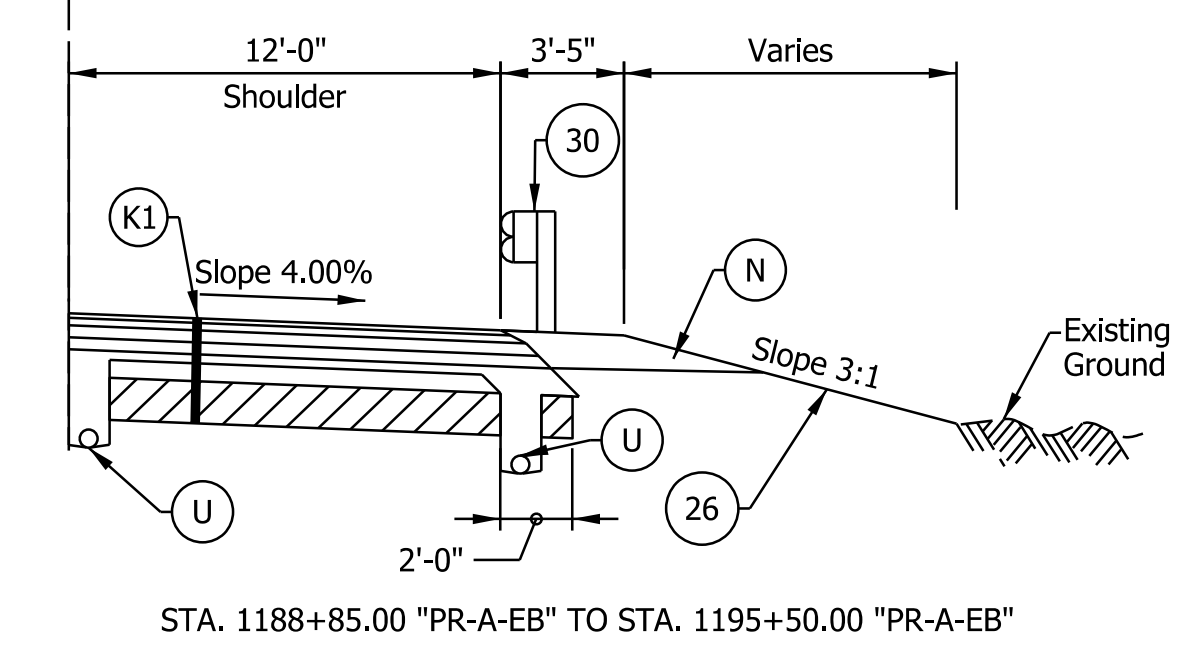


**I-64 EB SUPERELEVATED TYPICAL SECTION**  
 STA. 1198+00.00 "PR-A-EB" TO STA. 1213+75.00 "PR-A-EB"

Bridge Paving Exception Sta. 1212+03.30 to Sta. 1213+34.81



**FOR INFORMATION ONLY**



STA. 1188+85.00 "PR-A-EB" TO STA. 1195+50.00 "PR-A-EB"

Paved Side Ditch  
 STA. 1200+43.00 "PR-A-EB" TO STA. 1202+00.00 "PR-A-EB"  
 STA. 1205+50.00 "PR-A-EB" TO STA. 1210+50.00 "PR-A-EB"

- Notes:
- See Sheet LGD-01 for construction legend
  - See Sheet TS-43 for Safety Edge Details
  - \* Max rollover between shoulder and travel lane not to exceed 8%.
  - A STA. 1207+56.95 "PR-A-EB" TO STA. 1213+35.50 "PR-A-EB"
  - B Shoulder slope will be rotated to match the adjacent lanes on the bridge over Quarry Road. See superelevation diagrams.
  - C Left shoulder width increased to 15'-11" across the Quarry Road bridge  
Right shoulder width increased to 11'-8" across the Quarry Road bridge
  - 1 Lane width is 0'-0" from Sta. 1180+86.02 to 1183+78.76  
Lane width varies from 0'-0" at Sta. 1183+78.76 to 12'-0" at Sta. 1186+78.76
  - 2 Shoulder width is 4'-0" from Sta. 1180+86.02 to 1185+50.00  
Lane width varies from 16'-6" at Sta. 1185+50.00 to 12'-0" at Sta. 1186+75.00
  - 3 Gore ends at Sta. 1200+43.18
  - 4 Lane Width varies from 16'-0" at Sta. 1200+43.18 to 12'-0" at Sta. 1202+92.02

**NOTE TO REVIEWER**  
 Coordination with Geotech is in progress.  
 Retaining Wall Details will be Refined in future Submittals

**NOTE TO REVIEWER**  
 2-foot lane extensions at the shoulders will be reviewed and implemented where applicable in a future submittal.

**NOTE TO REVIEWER**  
 Existing underdrains, their continuation, and proposed underdrains to be finalized after receiving final pavement design.

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 NOT FOR CONSTRUCTION

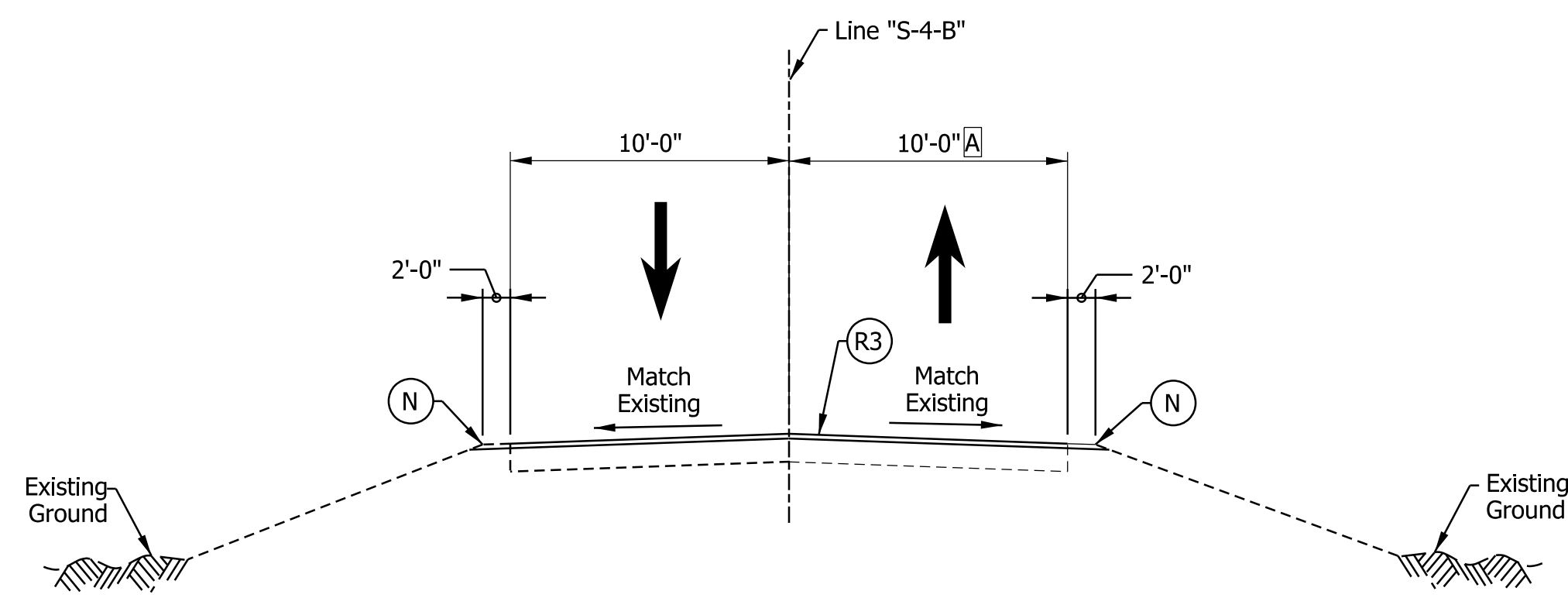
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| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: SGM            | DRAWN: CGR      |      |
| CHECKED: ADR             | CHECKED: ADR    |      |

INDIANA DEPARTMENT OF TRANSPORTATION

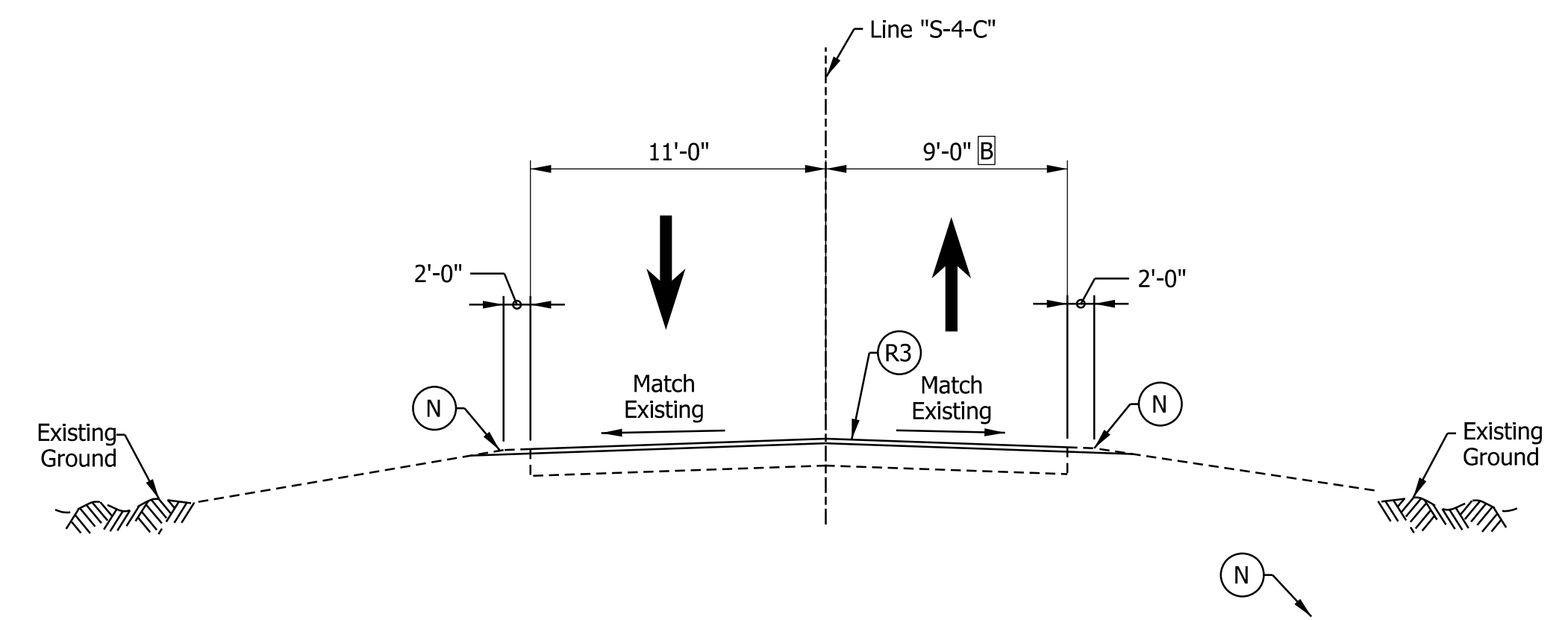
**I-64 EASTBOUND MAINLINE PROPOSED TYPICAL SECTIONS**

|                  |               |
|------------------|---------------|
| HORIZONTAL SCALE | BRIDGE FILE   |
| 3/16"=1'-0"      | I64-120-10786 |
| VERTICAL SCALE   | DESIGNATION   |
| N/A              | 1700207       |
| DWG. NO.         | SHEETS        |
| ELECTRONIC       | 3 of 24       |
| CONTRACT         | PROJECT       |
| R-42570          | 1900162       |

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**Captain Frank Road Typical Section**  
 STA. 48+50.00 "S-4-B" TO STA. 54+00.00 "S-4-B"



**Quarry Road Typical Section**  
 STA. 47+31.00 "S-4-C" TO STA. 51+70.00 "S-4-C"

**Notes:**

See Sheet LGD-01 for construction legend  
 See Sheet TS-43 for Safety Edge Details

- Ⓐ Northbound Travel Lane is 10'-0" from Sta. 48+50 "S-4-B" to Sta. 52+50 "S-4-B"  
 Northbound Travel Lane Varies from 10'-0" to 11'-6" from Sta. 52+50 "S-4-B" to Sta. 54+00 "S-4-B"
- Ⓑ Northbound Travel Lane Varies from 9'-0" to 14'-6" from Sta. 51+25 "S-4-C" to Sta. 51+70 "S-4-C"

FOR INFORMATION ONLY

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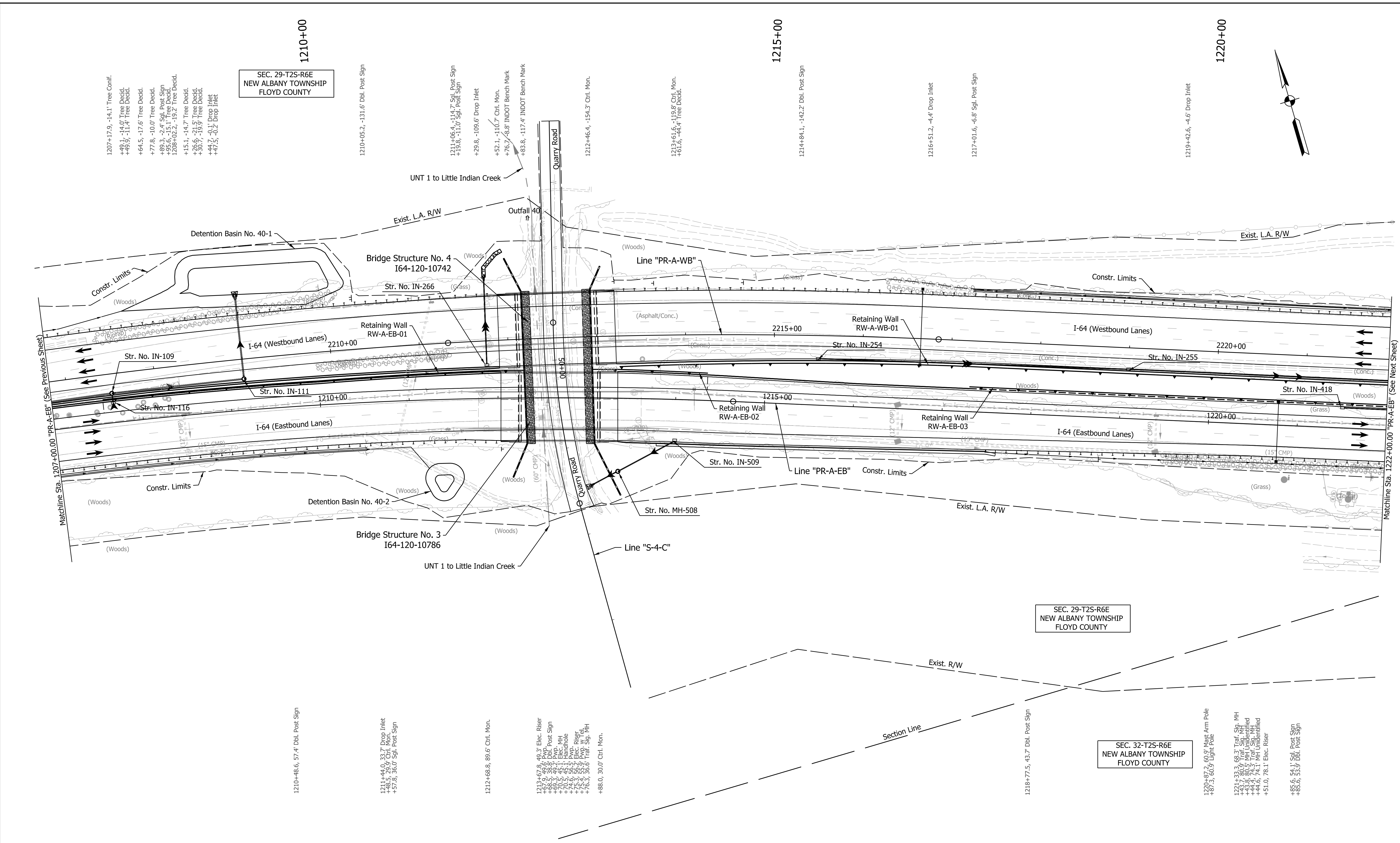
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| DESIGNED: _____ JKH _____      | DRAWN: _____ JKH _____   |            |
| CHECKED: _____ ADR _____       | CHECKED: _____ ADR _____ |            |

INDIANA  
 DEPARTMENT OF TRANSPORTATION

**QUARRY ROAD / CAPTAIN FRANK ROAD  
 PROPOSED TYPICAL SECTIONS**

|                  |               |
|------------------|---------------|
| HORIZONTAL SCALE | BRIDGE FILE   |
| 3/16"=1'-0"      | I64-120-10786 |
| VERTICAL SCALE   | DESIGNATION   |
| N/A              | 1700207       |
| DWG. NO.         | SHEETS        |
| ELECTRONIC       | 4 of 24       |
| CONTRACT         | PROJECT       |
| R-42570          | 1900162       |

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SEC. 29-T2S-R6E  
 NEW ALBANY TOWNSHIP  
 FLOYD COUNTY

SEC. 29-T2S-R6E  
 NEW ALBANY TOWNSHIP  
 FLOYD COUNTY

SEC. 32-T2S-R6E  
 NEW ALBANY TOWNSHIP  
 FLOYD COUNTY

Note:  
 For Geometric information see Geometric Layout Sheets  
 GEO-01 to GEO-13.

FOR INFORMATION ONLY

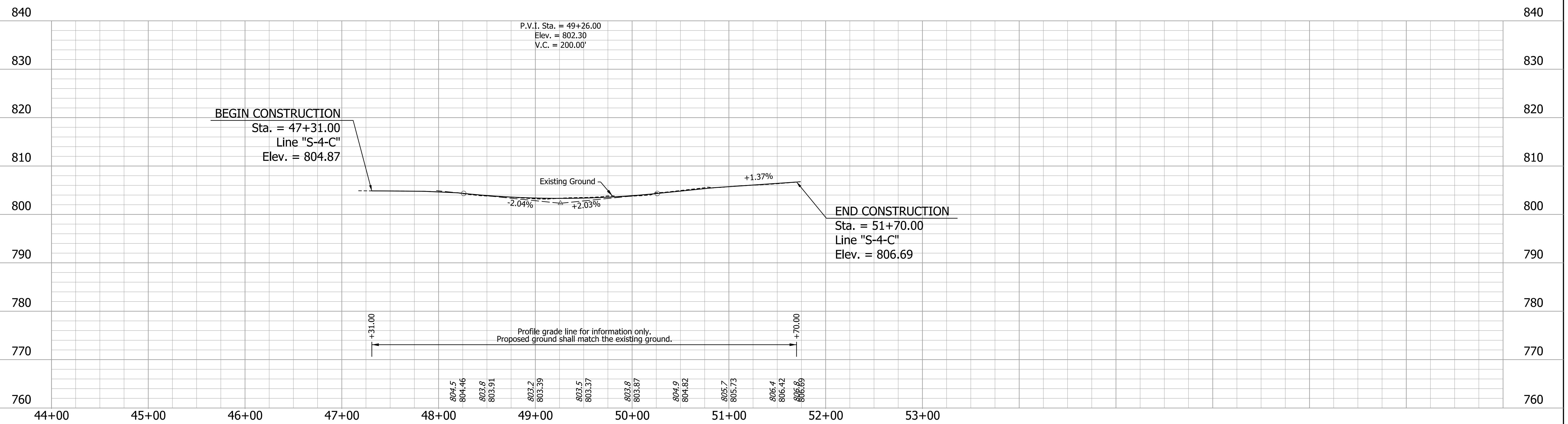
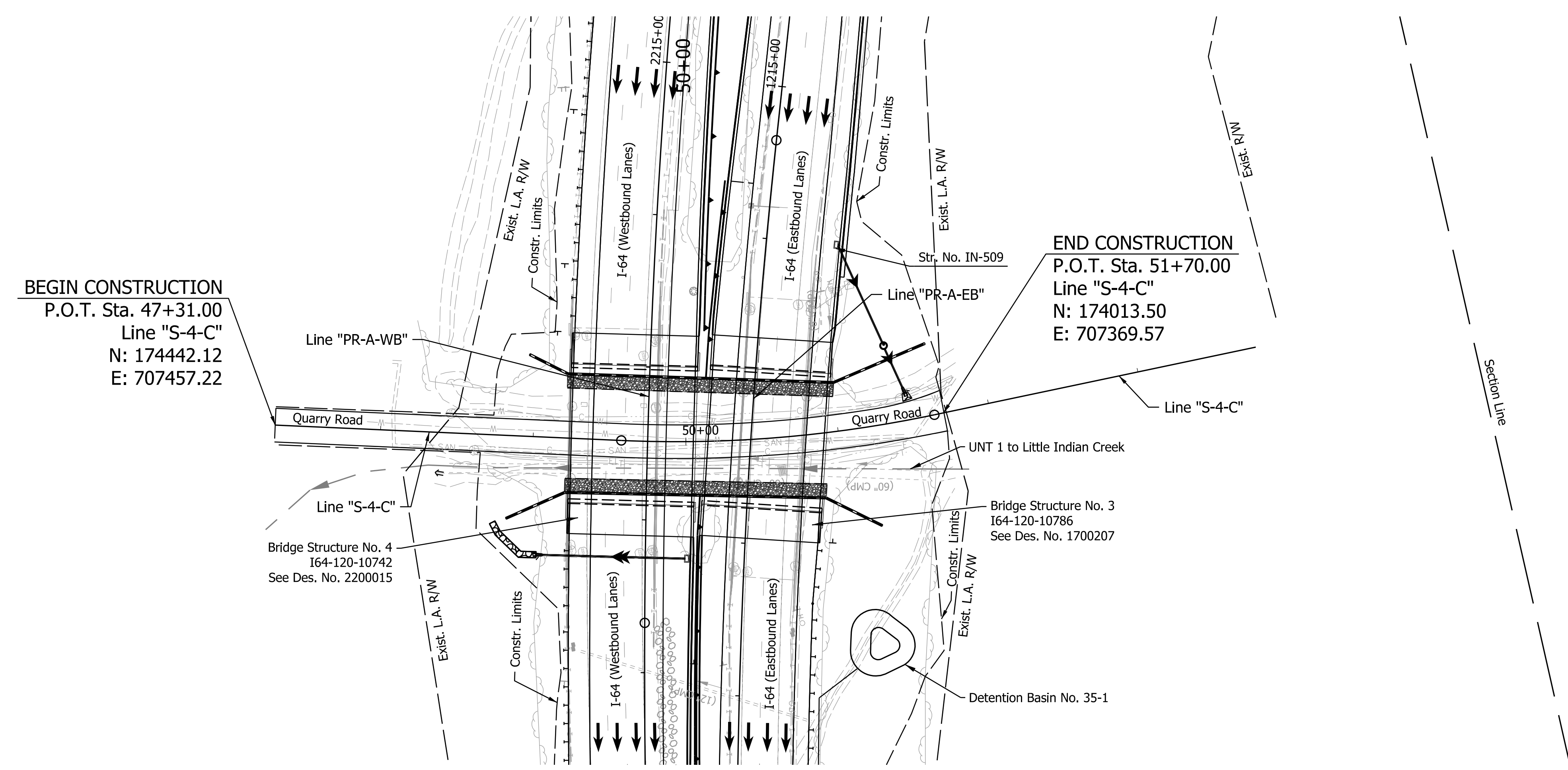
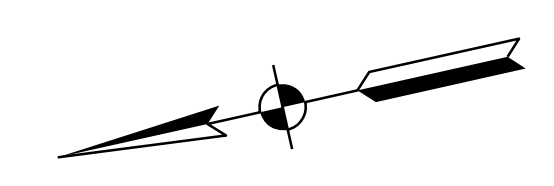
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| DESIGNED: SGM            | DRAWN: RJS      |      |
| CHECKED: KRC             | CHECKED: KRC    |      |

INDIANA  
 DEPARTMENT OF TRANSPORTATION

PLAN SHEET  
 LINE "PR-A-EB" STA. 1207+00 TO STA. 1222+00  
 LINE "PR-A-WB" - STA. 2207+00 TO STA. 2222+00

|                  |               |        |
|------------------|---------------|--------|
| HORIZONTAL SCALE | BRIDGE FILE   |        |
| 1"=50'           | 164-120-10786 |        |
| VERTICAL SCALE   | DESIGNATION   |        |
| N/A              | 1700207       |        |
| DWG. NO.         | SHEETS        | PLN-03 |
| ELECTRONIC       | 5             | of 24  |
| CONTRACT         | PROJECT       |        |
| R-42570          | 1900162       |        |



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| RECOMMENDED FOR APPROVAL _____ | DESIGN ENGINEER _____    | DATE _____ |
| DESIGNED: _____ SGM _____      | DRAWN: _____ RJS _____   |            |
| CHECKED: _____ KRC _____       | CHECKED: _____ KRC _____ |            |

INDIANA  
DEPARTMENT OF TRANSPORTATION

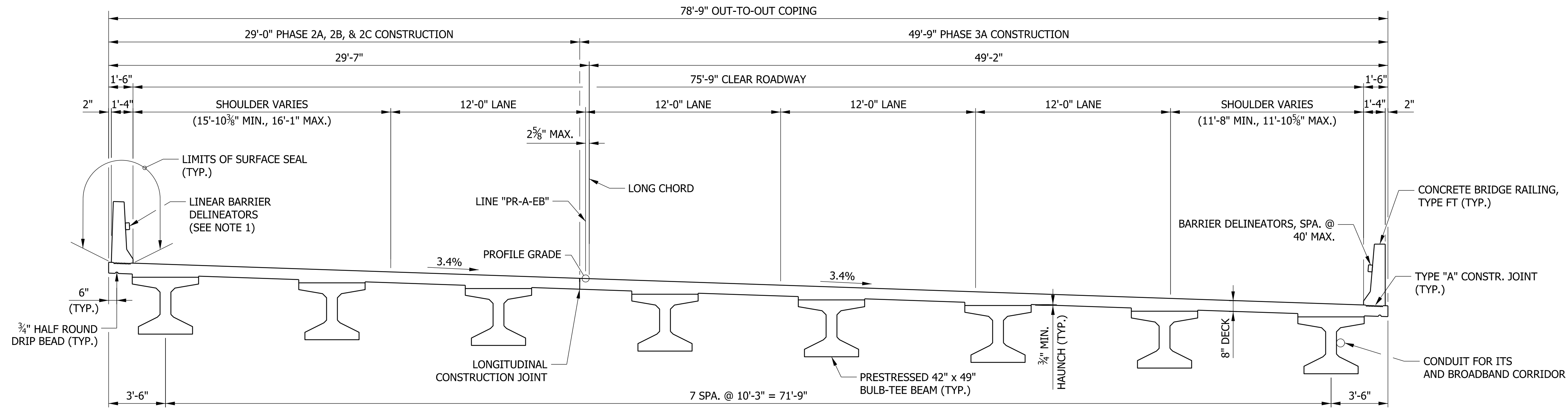
PLAN SHEET  
LINE "S-4-C"  
STA. 47+31 TO STA. 51+70

|                              |                              |
|------------------------------|------------------------------|
| HORIZONTAL SCALE<br>1" = 50' | BRIDGE FILE<br>I64-120-10786 |
| VERTICAL SCALE<br>1" = 10'   | DESIGNATION<br>1700207       |
| DWG. NO.<br>ELECTRONIC       | SHEETS<br>7 of 24            |
| CONTRACT<br>R-42570          | PROJECT<br>1900162           |

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TYPICAL SECTION

**GENERAL NOTES**

ALL DIMENSIONS AND ELEVATIONS ARE IN FEET (FT), UNLESS NOTED OTHERWISE.

REINFORCING BAR COVER SHALL BE 2 1/2" IN TOP AND 1" MINIMUM IN THE BOTTOM OF THE FLOOR SLAB, AND 2" IN ALL OTHER PARTS, UNLESS OTHERWISE NOTED.

ALL EXPOSED FACES OF THE CONCRETE BRIDGE RAILINGS, CONCRETE BRIDGE RAILING TRANSITIONS, WINGS, AND END BENTS SHALL BE SURFACE SEALED. (ESTIMATED QUANTITY = 2139 SFT.)

**DESIGN DATA**

**LIVE LOAD**  
DESIGNED FOR HL-93 LOADING, IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, NINTH EDITION, 2020, AND SUBSEQUENT INTERIMS.

**DEAD LOAD**  
ACTUAL WEIGHT PLUS 35 PSF (COMPOSITE) FOR FUTURE WEARING SURFACE AND 15 PSF (NON-COMPOSITE) FOR PERMANENT METAL DECK FORMS.

**FLOOR SLAB**  
DESIGNED FOR A 7 1/2" STRUCTURAL DEPTH AND A 1/2" SACRIFICIAL WEARING SURFACE.

**DESIGN STRENGTHS**  
CLASS "C" CONCRETE: f<sub>c</sub> = 4,000 PSI  
REINFORCING BARS: f<sub>y</sub> = 60,000 PSI

PRESTRESSED CONCRETE, NORMAL WEIGHT:  
f<sub>c</sub> = 8,000 PSI @ 28 DAYS  
INITIAL f<sub>c</sub> = 6,000 PSI @ RELEASE OF STRANDS  
PRESTRESSING STRANDS:  
0.6" Ø 7 WIRE L0LAX STRANDS (A<sub>s</sub> = 0.217 SQ. IN.)  
MIN. TENSILE STRENGTH = 270,000 PSI  
INITIAL PULL = 43,940 LBS. PER STRAND

**CONSTRUCTION LOADING**

THE EXTERIOR BEAMS HAVE BEEN CHECKED FOR STRENGTH, DEFLECTION, AND OVERTURNING USING CONSTRUCTION LOADS SHOWN BELOW. CANTILEVER OVERHANG BRACKETS WERE ASSUMED FOR SUPPORT OF THE DECK OVERHANG PAST THE EDGE OF EXTERIOR BEAM. THE FINISHING MACHINE WAS ASSUMED TO BE SUPPORTED 6 INCHES OUTSIDE THE VERTICAL COPING FORM. THE TOP OVERHANG BRACKETS WERE ASSUMED TO BE LOCATED 6 INCHES PAST THE EDGE OF THE VERTICAL COPING FORM. THE BOTTOM OVERHANG BRACKETS WERE ASSUMED TO BE BRACED AGAINST THE INTERSECTION OF THE BEAM BOTTOM FLANGE AND WEB.

**DECK FALSEWORK LOADS:**

DESIGNED FOR 15 PSF FOR PERMANENT METAL STAY-IN-PLACE DECK FORMS, REMOVABLE DECK FORMS, AND 2-FT. EXTERIOR WALKWAY.  
**CONSTRUCTION LIVE LOAD:**  
DESIGNED FOR 20 PSF EXTENDING 2 FT. PAST THE EDGE OF COPING AND 75 PLF VERTICAL FORCE APPLIED AT A DISTANCE OF 6 INCHES OUTSIDE THE FACE OF COPING OVER A 30-FT. LENGTH OF THE DECK CENTERED WITH THE FINISHING MACHINE.

**FINISHING-MACHINE LOAD:**

4,500 LBS DISTRIBUTED OVER 10 FT. ALONG COPING.

**WIND LOAD**

DESIGNED FOR 70 MPH HORIZONTAL WIND LOADING IN ACCORDANCE WITH AASHTO LRFD 3.8.1.

**SEISMIC DATA**

SEISMIC PERFORMANCE ZONE: X  
ACCELERATION COEFFICIENT: X.XXX  
SEISMIC SOIL PROFILE TYPE: CLASS D

**NOTE TO REVIEWER**

SEISMIC DATA WILL BE PROVIDED IN A FUTURE SUBMITTAL ONCE THE GEOTECHNICAL REPORT IS COMPLETE

**NOTE:**

1. FOR LINEAR DELINEATOR DETAILS, SEE SPECIAL PROVISIONS.

COMPOSITE PRESTRESSED CONCRETE  
BULB-TEE BEAM BRIDGE  
1 SPAN: 89'-0"  
75'-9" CLEAR ROADWAY  
SKEW: NONE  
I-64 EB OVER QUARRY ROAD  
FLOYD COUNTY

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| RECOMMENDED FOR APPROVAL _____ | DESIGN ENGINEER _____    | DATE _____ |
| DESIGNED: _____ PTT _____      | DRAWN: _____ PTT _____   |            |
| CHECKED: _____ TMB _____       | CHECKED: _____ TMB _____ |            |

INDIANA  
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN

|                  |               |        |
|------------------|---------------|--------|
| HORIZONTAL SCALE | BRIDGE FILE   |        |
| 1/4" = 1'-0"     | I64-120-10786 |        |
| VERTICAL SCALE   | DESIGNATION   |        |
| 1/4" = 1'-0"     | 1700207       |        |
| SURVEY BOOK      | SHEETS        | PLN-02 |
| ELECTRONIC       | 12 of         | 24     |
| CONTRACT         | PROJECT       |        |
| R-42570          | 1900162       |        |



|          |               |
|----------|---------------|
| PROJECT  | DESIGNATION   |
| 1900162  | 2200015       |
| CONTRACT | BRIDGE FILE   |
| R-42570  | I64-120-10742 |

| STRUCTURE INFORMATION |  |                                  |             |                                     |
|-----------------------|--|----------------------------------|-------------|-------------------------------------|
| STRUCTURE             | TYPE                                       | SPAN AND SKEW                    | OVER        | STATION                             |
| I64-120-10742         | COMPOSITE PRESTRESSED BULB-TEE BEAM BRIDGE | 1 SPAN: 89'-0"<br>SKEW: 0°00'00" | QUARRY ROAD | ☉ STA. 1212+55.38<br>LINE "PR-A-WB" |

| KIN PROJECT INFORMATION |   |           |
|-------------------------|---|-----------|
| DESIGNATION             | PROJECT DESCRIPTION   |           |
| ROAD                    |   |           |
| 1900162                 | Added Travel Lanes on I-64  | LEAD DES. |
| 1900366                 | US 150 and Old Vincennes Road (East)                                |           |
| 2100019                 | I-64 Lighting US 150 to I-64 / I-265                                |           |
| BRIDGE                  |   |           |
| 1800706                 | Bridge Painting on US 150 EB over I-64                              | Str. 1    |
| 1800405                 | Bridge Painting on US 150 WB over I-64                              | Str. 2    |
| 1700207                 | Bridge Replacement on I-64 EB over Quarry Road                      | Str. 3    |
| 2200015                 | Bridge Replacement on I-64 WB over Quarry Road                      | Str. 4    |
| 1702617                 | Bridge Replacement on I-64 WB over I-64 Ramp to I-265 EB            | Str. 5A   |
| 2200016                 | Bridge Replacement on I-64 EB over I-64 Ramp to I-265 EB            | Str. 5B   |
| 1800721                 | Bridge Replacement on I-64 WB over I-265 Ramp to I-64 EB            | Str. 6    |
| 2200019                 | Bridge Replacement on I-265 WB to I-64 EB over I-64 EB to I-265 EB  | Str. 7    |
| 2200017                 | Bridge Replacement on I-64 EB over Captain Frank Road               | Str. 8    |
| 2200018                 | Superstructure Replacement on I-64 WB over Captain Frank Road       | Str. 9    |
| 1702614                 | Bridge Deck Overlay on I-64 EB & WB over Cherry Street              | Str. 10   |
| 2000326 / 2000323       | Bridge Deck Replacement and Widening on I-265 EB over State Street  | Str. 11   |
| 2000324                 | Bridge Deck Overlay on I-265 WB over State Street                   | Str. 12   |
| 1700205                 | I-64 WB over SR62 / SR 64   | Str. 14   |
| 1700206                 | I-64 EB over SR62 / SR 64   | Str. 13   |
| 2000144                 | Bridge Deck Overlay on I-64 EB over Yenowine Lane                   | Str. 15   |
| 2000145                 | Bridge Deck Overlay on I-64 WB over Yenowine Lane                   | Str. 16   |
| 2002072                 | US 150 EB over Little Indian Creek                                  | Str. 18   |
| 2002073                 | US 150 WB over Little Indian Creek                                  | Str. 19   |
| 2200719                 | I-64 EB & WB over SR 62 / Spring Street                             | Str. 20   |
| 2200718                 | I-64 WB Off-Ramp to Spring over I-64 WB On-Ramp from Spring         | Str. 21   |
| DRAINAGE                |   |           |
| TBD                     | US 150 Twin Arch Pipe Liner   | Str. 17   |
| TBD                     | Valley View Creek (6 Small Structure and 7 Small Pipe Replacements) |           |
| TBD                     | Valley View Creek CMP Liner   |           |
| TBD                     | UNT to Little Indian Creek CMP Liner                                |           |
| TBD                     | Hill Brook CMP Liner  |           |
| TBD                     | Small Pipes CMP Liners (2)  |           |

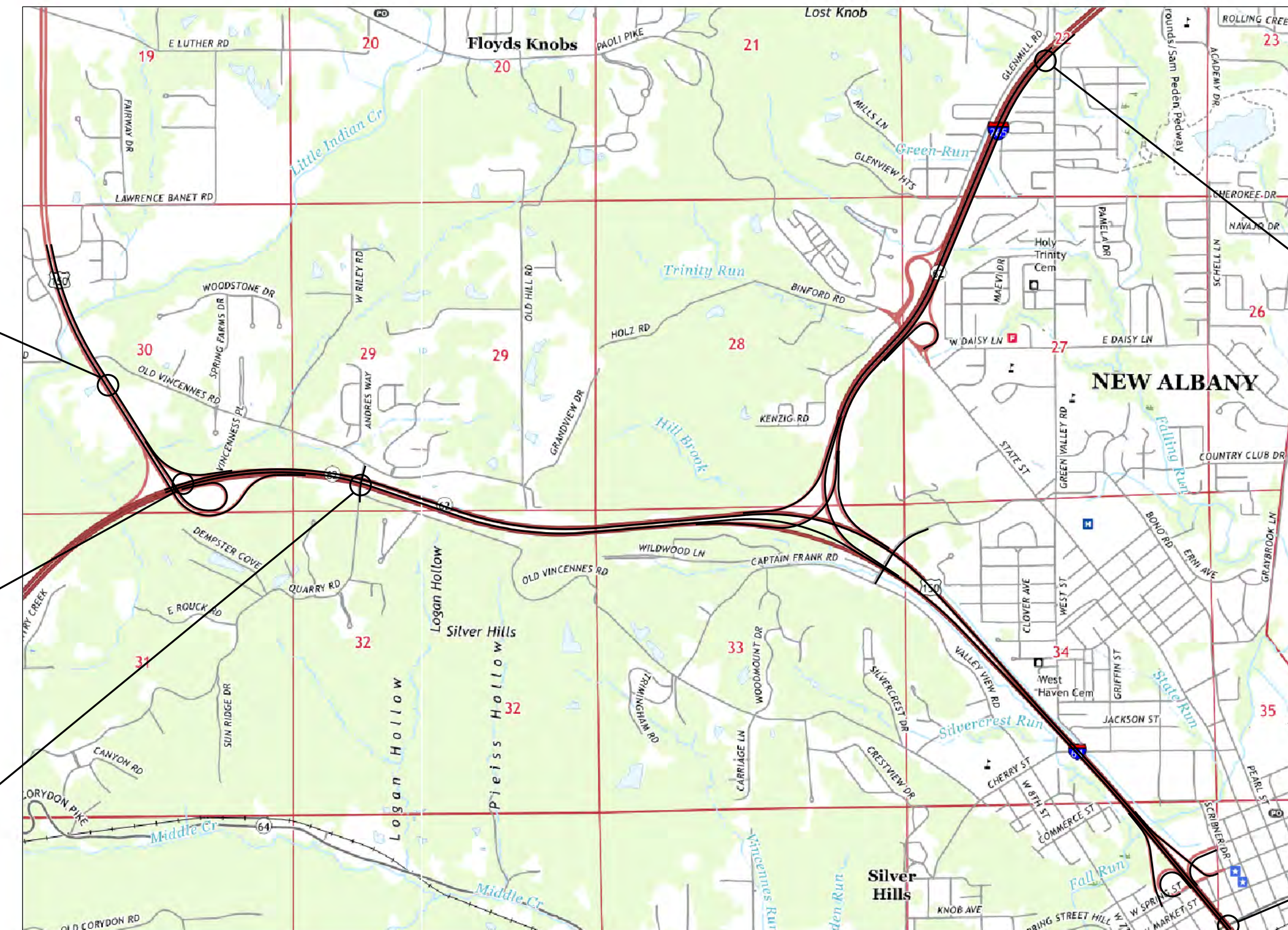
**NOTE TO REVIEWER**  
THE LIST OF KIN'D PROJECTS IS TENTATIVE AND SUBJECT TO CHANGE AT INDOT SEYMOUR DISTRICT'S DIRECTION. THIS LIST REPRESENTS THE CURRENT UNDERSTANDING OF THE CONTRACT PACKAGE.

**STAGE 2 PLANS**

BEGIN CONSTRUCTION  
PROJECT NO. 1900162  
STA. 1025+38.31  
LINE "PR-U-WB"

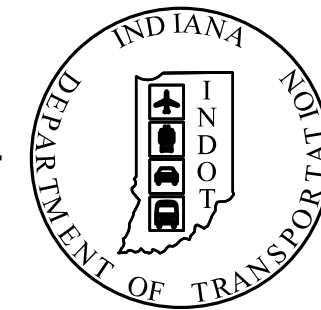
BEGIN PROJECT  
PROJECT NO. 1900162  
STA. 1180+86.02  
LINE "PR-A-EB"

BRIDGE FILE NO. I64-120-10742  
I-64 WB OVER QUARRY ROAD  
STA. 2212+55.38 LINE "PR-A-WB"



LOCATION MAP  
FLOYD COUNTY

# INDIANA DEPARTMENT OF TRANSPORTATION



## BRIDGE PLANS

FOR SPANS OVER 20 FEET

ROUTE : I-64 WB AT: RP 119+94

PROJECT NO. 2200015 P.E.  
1900162 R/W  
2200015 CONST.

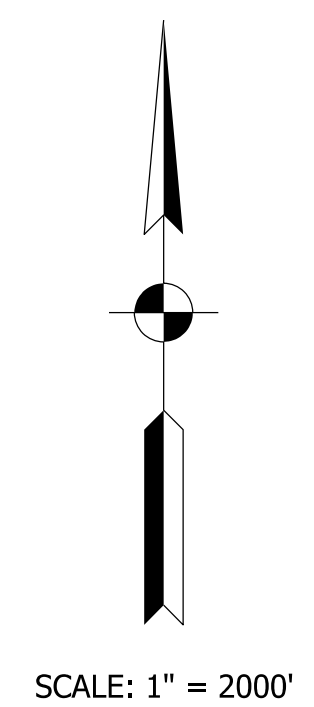
BRIDGE REPLACEMENT ON I-64 WB OVER QUARRY ROAD  
LOCATED 0.73 MILES EAST OF US 150 IN  
SECTION 29, T-2-S, R-6-E, NEW ALBANY TOWNSHIP, FLOYD COUNTY, INDIANA

| TRAFFIC DATA             | I-64 MAINLINE | QUARRY ROAD  |
|--------------------------|---------------|--------------|
| A.A.D.T. (2019)          | 69,020 V.P.D. | 1,090 V.P.D. |
| A.A.D.T. (2046)          | 94,560 V.P.D. | 1,440 V.P.D. |
| D.H.V (2046)             | 8,910 V.P.H.  | 170 V.P.H.   |
| DIRECTIONAL DISTRIBUTION | 67%           | 55%          |
| TRUCKS                   | 10%           | 7%           |
|                          | 7% D.H.V.     | 10% D.H.V.   |

| DESIGN DATA               |              |                |
|---------------------------|--------------|----------------|
| DESIGN SPEED              | 70 M.P.H.    |                |
| PROJECT DESIGN CRITERIA   | 4R (FREEWAY) | NO IMPROVEMENT |
| FUNCTIONAL CLASSIFICATION | INTERSTATE   |                |
| RURAL/URBAN               | URBAN        |                |
| TERRAIN                   | ROLLING      |                |
| ACCESS CONTROL            | FULL         |                |



PROJECT LOCATION SHOWN BY  
FLOYD COUNTY



SCALE: 1" = 2000'

LATITUDE: N 38°18'14" LONGITUDE: W 85°52'44"

BRIDGE LENGTH: 0.017 MI.  
ROADWAY LENGTH: \* MI.  
TOTAL LENGTH: \* MI.  
MAX. GRADE: -2.87 %

\* SEE DES NO. 1900162

12-DIGIT HYDROLOGIC UNIT CODE: 051401040302

**NOTE TO REVIEWER**  
PLEASE SEE CORRESPONDENCE  
FILE FOR DOCUMENTATION  
OF DESIGN DECISIONS

END PROJECT  
PROJECT NO. 1900162  
STA. 1393+50.00  
LINE "PR-A-EB"

END CONSTRUCTION  
PROJECT NO. 1900162  
STA. 2077+97.42  
LINE "PR-L-EB"

INDIANA DEPARTMENT OF TRANSPORTATION  
STANDARD SPECIFICATIONS DATED 2022  
TO BE USED WITH THESE PLANS

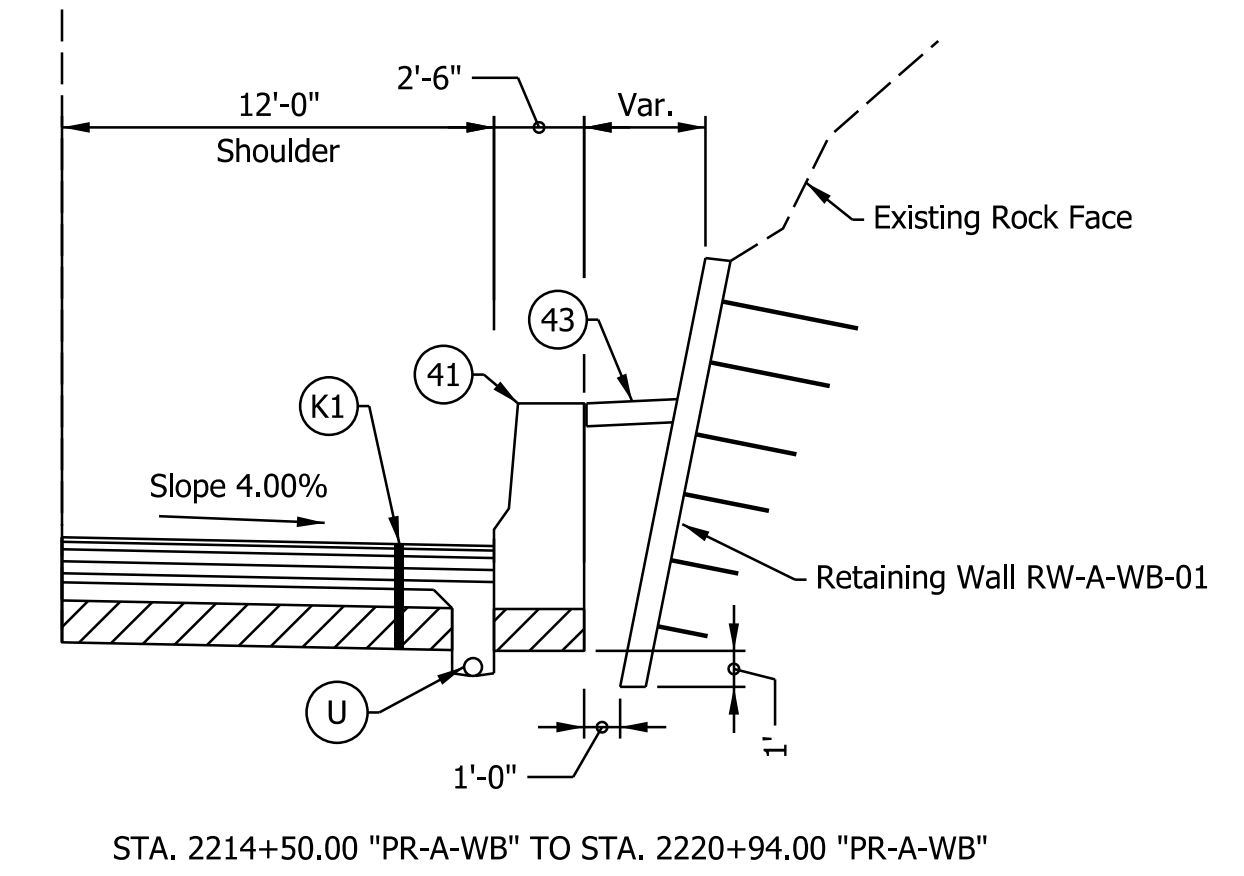
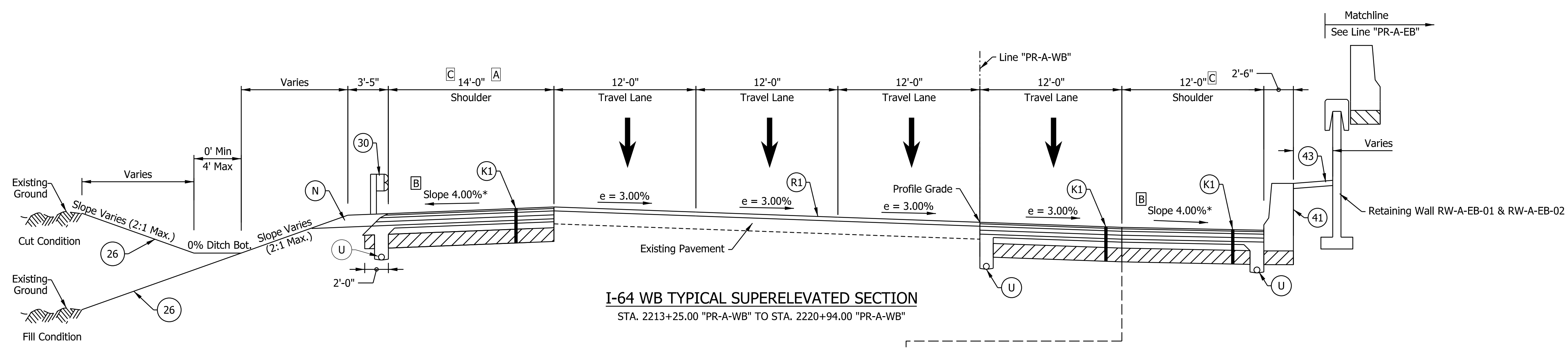
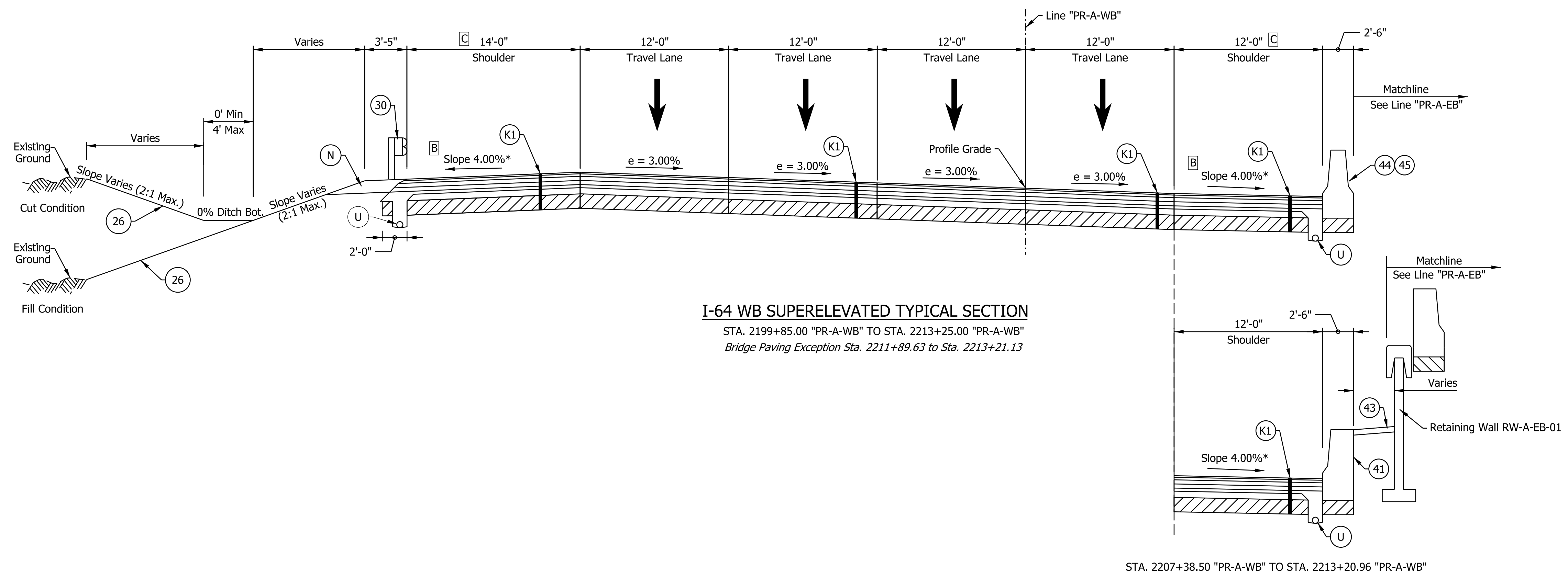


HNTB CORPORATION  
THE HNTB COMPANIES  
INFRASTRUCTURE SOLUTIONS  
111 MONUMENT CIRCLE  
SUITE 1200  
INDIANAPOLIS, IN 46204

**DRAFT**  
NOT FOR CONSTRUCTION

PLANS PREPARED BY: HNTB INDIANA, INC (317) 636-4682 PHONE NUMBER  
CERTIFIED BY: \_\_\_\_\_ DATE  
APPROVED FOR LETTING: \_\_\_\_\_ DATE  
INDIANA DEPARTMENT OF TRANSPORTATION

|               |               |
|---------------|---------------|
| BRIDGE FILE   |               |
| I64-120-10742 |               |
| DESIGNATION   |               |
| 2200015       |               |
| SURVEY BOOK   | SHEETS TTL-01 |
| ELECTRONIC    | 1 of 21       |
| CONTRACT      | PROJECT       |
| R-42570       | 1900162       |



- Notes:
- See Sheet LGD-01 for construction legend
  - See Sheet TS-43 for Safety Edge Details
  - \* Max rollover between shoulder and travel lane not to exceed 8%.
  - A Shoulder width varies from 14'-0" at Sta. 2215+00.00 to 12'-0" at Sta. 2217+10.00. Shoulder width is 12'-0" from Sta. 2217+00 to 2220+94.00
  - B Shoulder slope to rotate to match adjacent lane slope on the bridge over Quarry Road
  - C Left shoulder width reduced to 13'-8" across the bridge over Quarry Road. Right shoulder width increased to 17'-9" across the bridge over Quarry Road

FOR INFORMATION ONLY

**NOTE TO REVIEWER**  
 Coordination with Geotech is in progress.  
 Retaining Wall Details will be  
 Refined in future Submittals

**NOTE TO REVIEWER**  
 2-foot lane extensions at the shoulders will be  
 reviewed and implemented where applicable  
 in a future submittal.

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|                          |                 |      |
|--------------------------|-----------------|------|
| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: SGM            | DRAWN: CGR      |      |
| CHECKED: ADR             | CHECKED: ADR    |      |

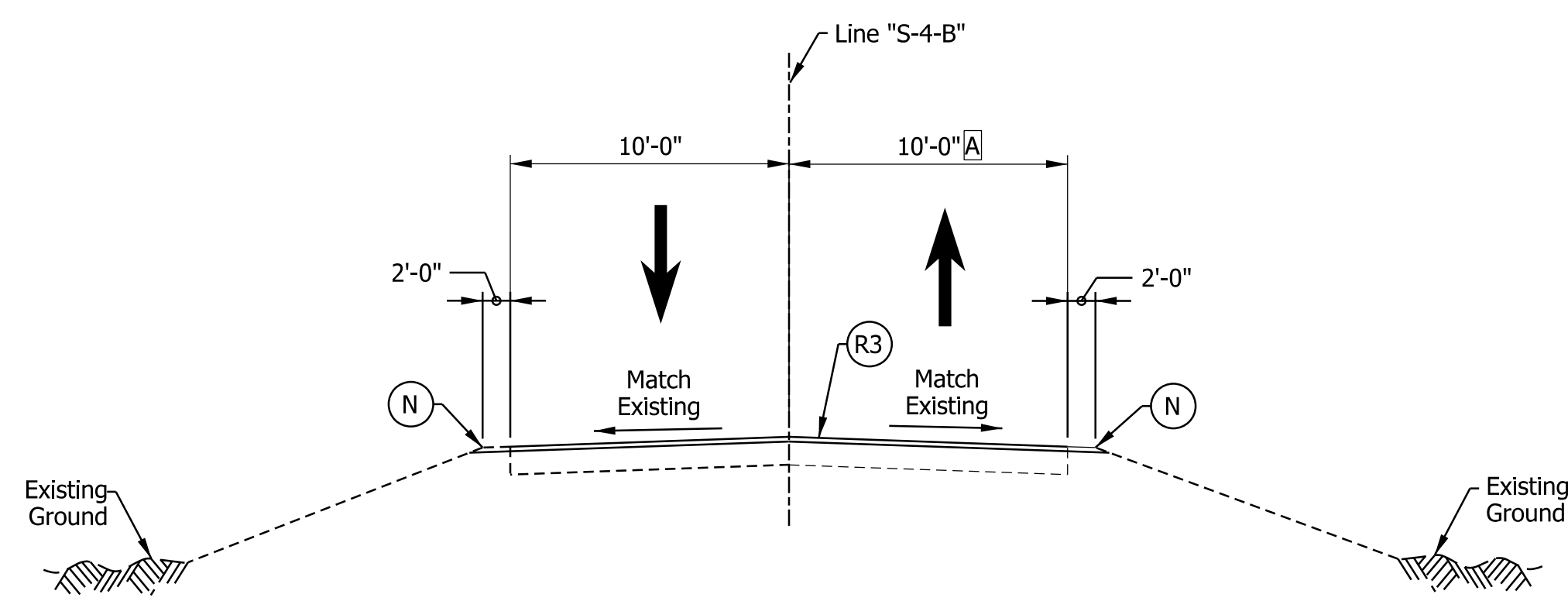
INDIANA  
 DEPARTMENT OF TRANSPORTATION

I-64 WESTBOUND MAINLINE  
 PROPOSED TYPICAL SECTIONS

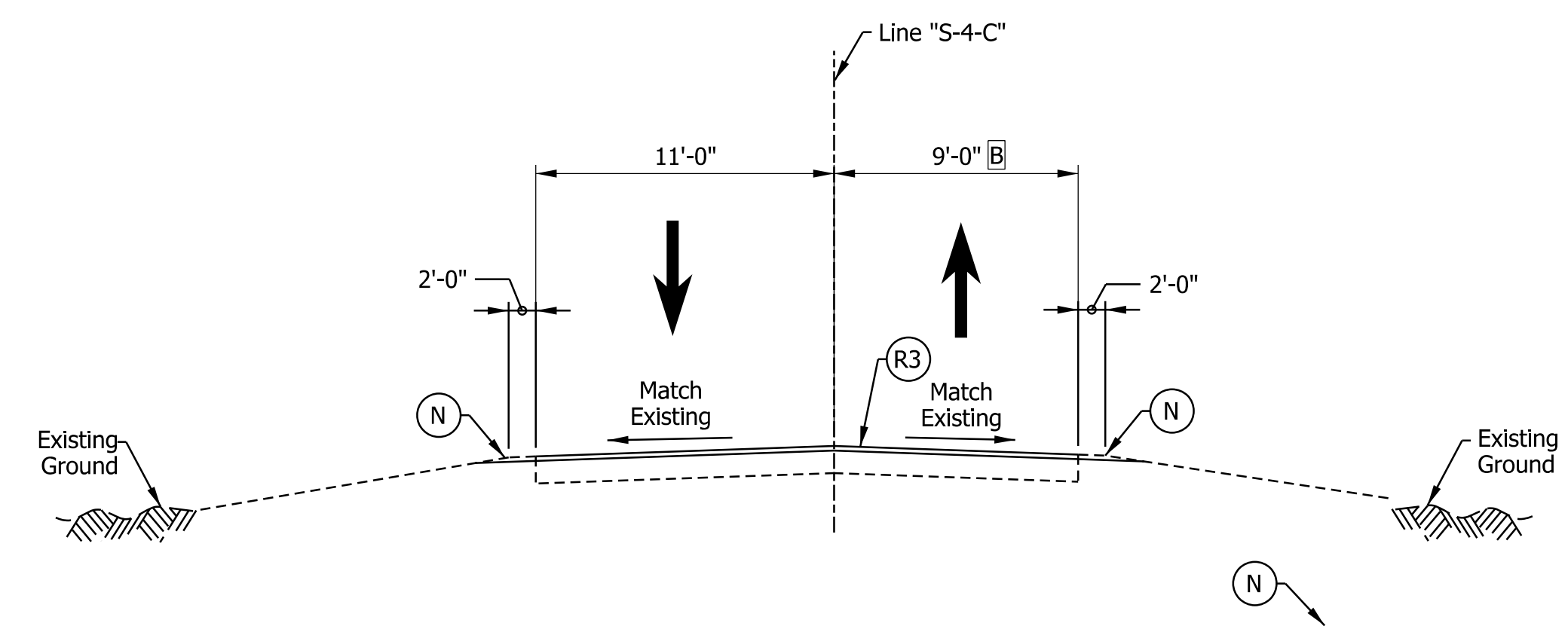
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|------------------|---------------|
| HORIZONTAL SCALE | BRIDGE FILE   |
| 3/16"=1'-0"      | 164-120-10742 |
| VERTICAL SCALE   | DESIGNATION   |
| N/A              | 2200015       |
| SURVEY BOOK      | SHEETS        |
| ELECTRONIC       | 3 of 21       |
| CONTRACT         | PROJECT       |
| R-42570          | 1900162       |

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**Captain Frank Road Typical Section**  
 STA. 48+50.00 "S-4-B" TO STA. 54+00.00 "S-4-B"



**Quarry Road Typical Section**  
 STA. 47+31.00 "S-4-C" TO STA. 51+70.00 "S-4-C"

FOR INFORMATION ONLY

**Notes:**

See Sheet LGD-01 for construction legend  
 See Sheet TS-43 for Safety Edge Details

- Ⓐ Northbound Travel Lane is 10'-0" from Sta. 48+50 "S-4-B" to Sta. 52+50 "S-4-B"  
 Northbound Travel Lane Varies from 10'-0" to 11'-6" from Sta. 52+50 "S-4-B" to Sta. 54+00 "S-4-B"
- Ⓑ Northbound Travel Lane Varies from 9'-0" to 14'-6" from Sta. 51+25 "S-4-C" to Sta. 51+70 "S-4-C"

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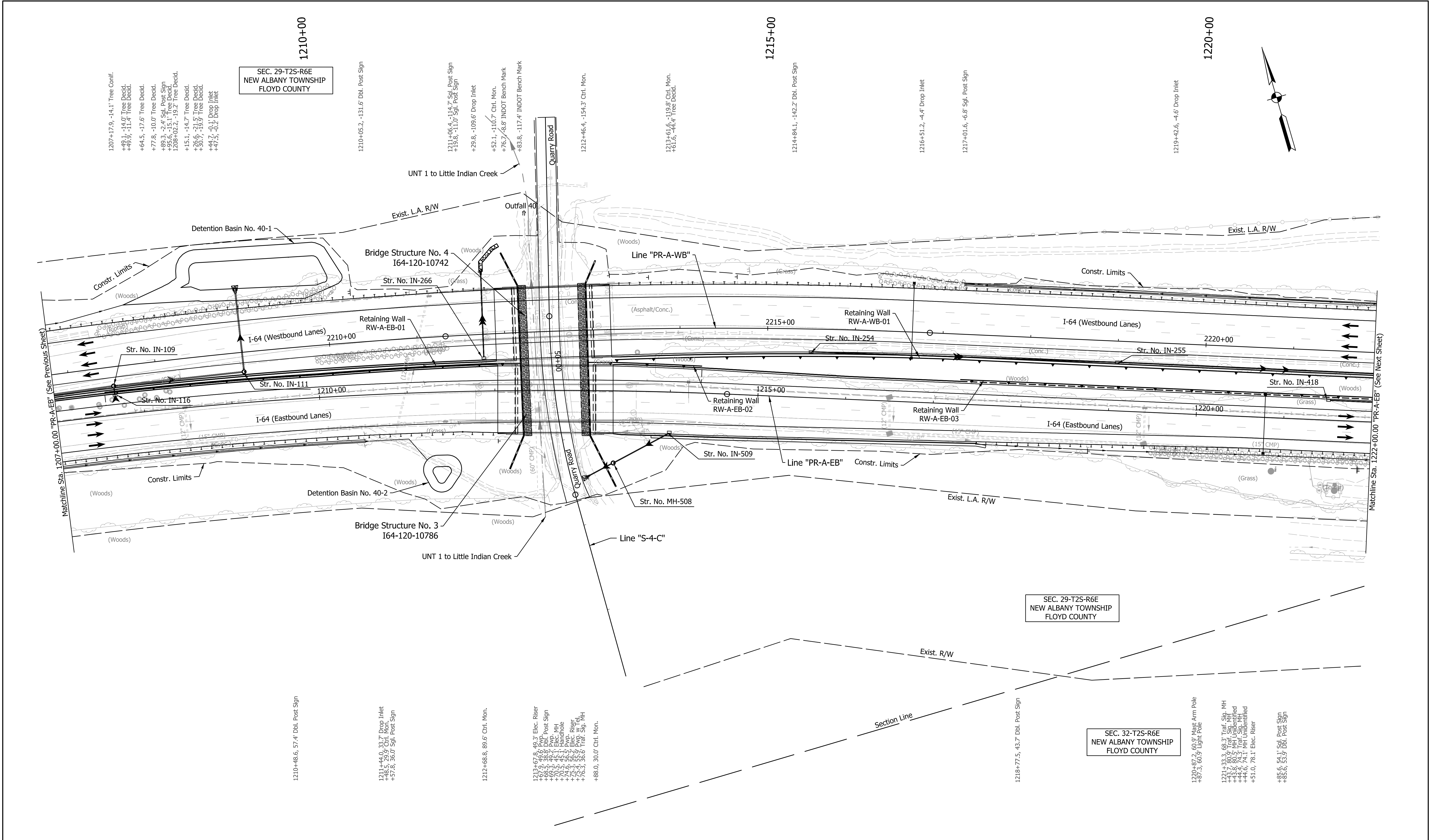
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| RECOMMENDED FOR APPROVAL _____ |     | DESIGN ENGINEER _____ | DATE _____ |
| DESIGNED: _____                | JKH | DRAWN: _____          | JKH        |
| CHECKED: _____                 | ADR | CHECKED: _____        | ADR        |

**INDIANA DEPARTMENT OF TRANSPORTATION**

**QUARRY ROAD / CAPTAIN FRANK ROAD PROPOSED TYPICAL SECTIONS**

|                  |               |
|------------------|---------------|
| HORIZONTAL SCALE | BRIDGE FILE   |
| 3/16"=1'-0"      | 164-120-10742 |
| VERTICAL SCALE   | DESIGNATION   |
| N/A              | 2200015       |
| SURVEY BOOK      | SHEETS TS-42  |
| ELECTRONIC       | 4 of 21       |
| CONTRACT         | PROJECT       |
| R-42570          | 1900162       |

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Note:  
 For Geometric information see Geometric Layout Sheets  
 GEO-01 to GEO-13.

FOR INFORMATION ONLY

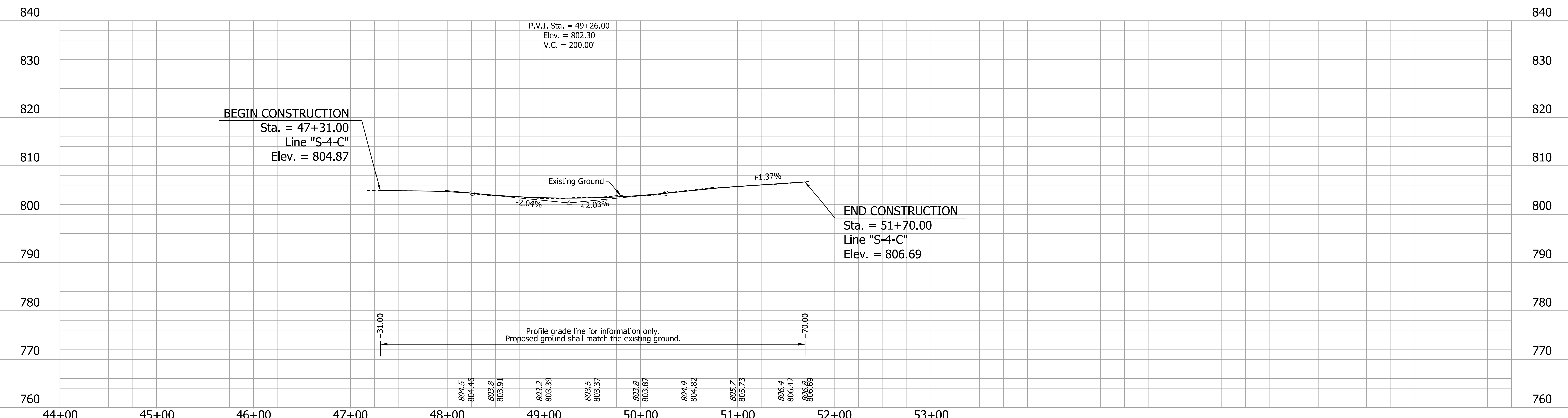
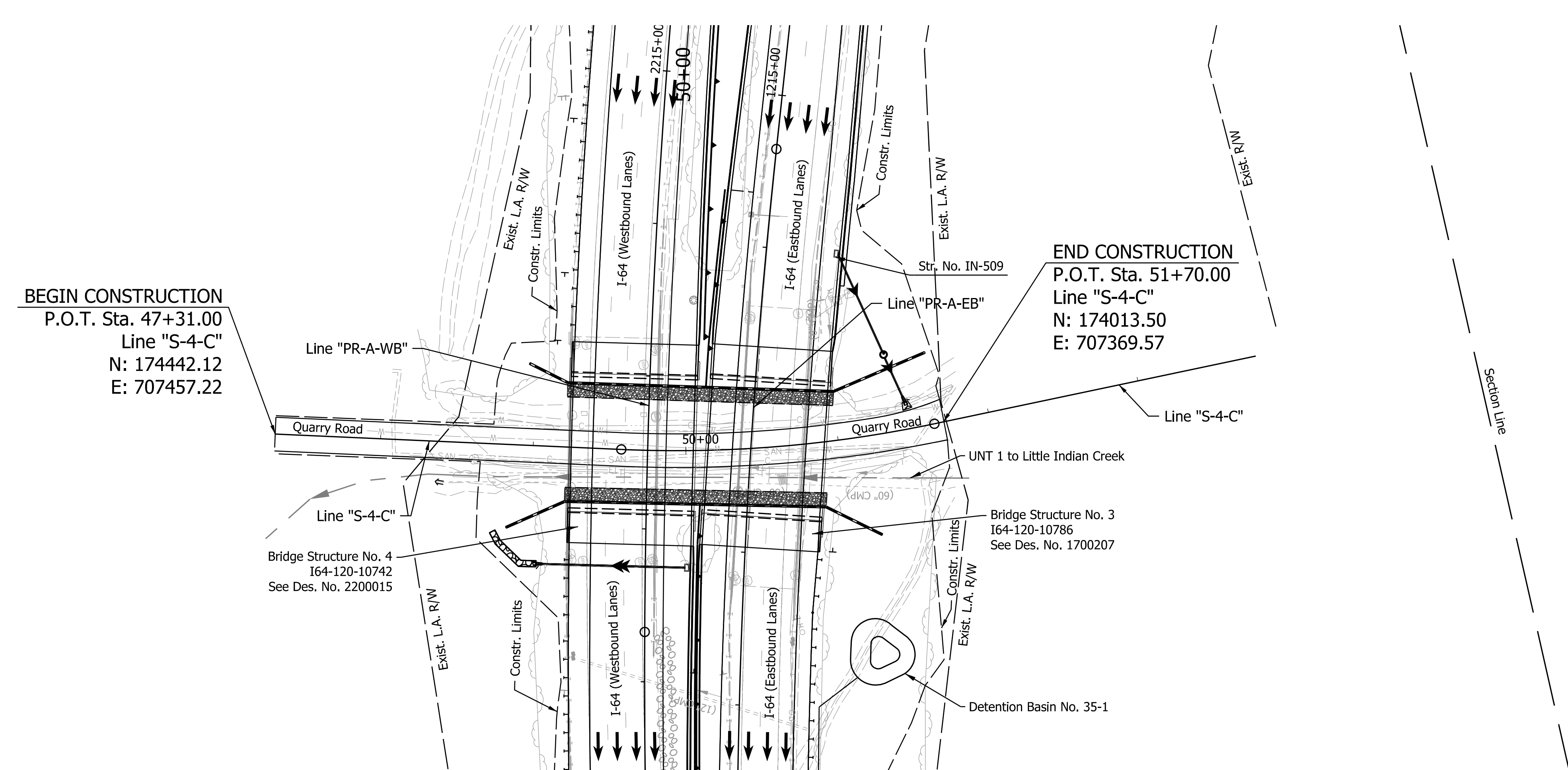
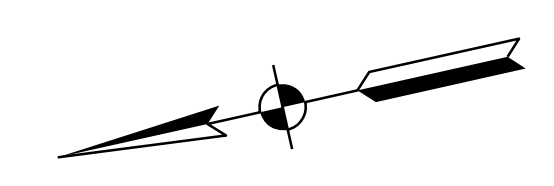
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| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: SGM            | DRAWN: RJS      |      |
| CHECKED: KRC             | CHECKED: KRC    |      |

INDIANA  
 DEPARTMENT OF TRANSPORTATION

PLAN SHEET  
 LINE "PR-A-EB" STA. 1207+00 TO STA. 1222+00  
 LINE "PR-A-WB" - STA. 2207+00 TO STA. 2222+00

|                  |               |        |
|------------------|---------------|--------|
| HORIZONTAL SCALE | BRIDGE FILE   |        |
| 1"=50'           | 164-120-10742 |        |
| VERTICAL SCALE   | DESIGNATION   |        |
| N/A              | 2200015       |        |
| SURVEY BOOK      | SHEETS        | PLN-03 |
| ELECTRONIC       | 5             | of 21  |
| CONTRACT         | PROJECT       |        |
| R-42570          | 1900162       |        |



FOR INFORMATION ONLY

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| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: SGM            | DRAWN: RJS      |      |
| CHECKED: KRC             | CHECKED: KRC    |      |

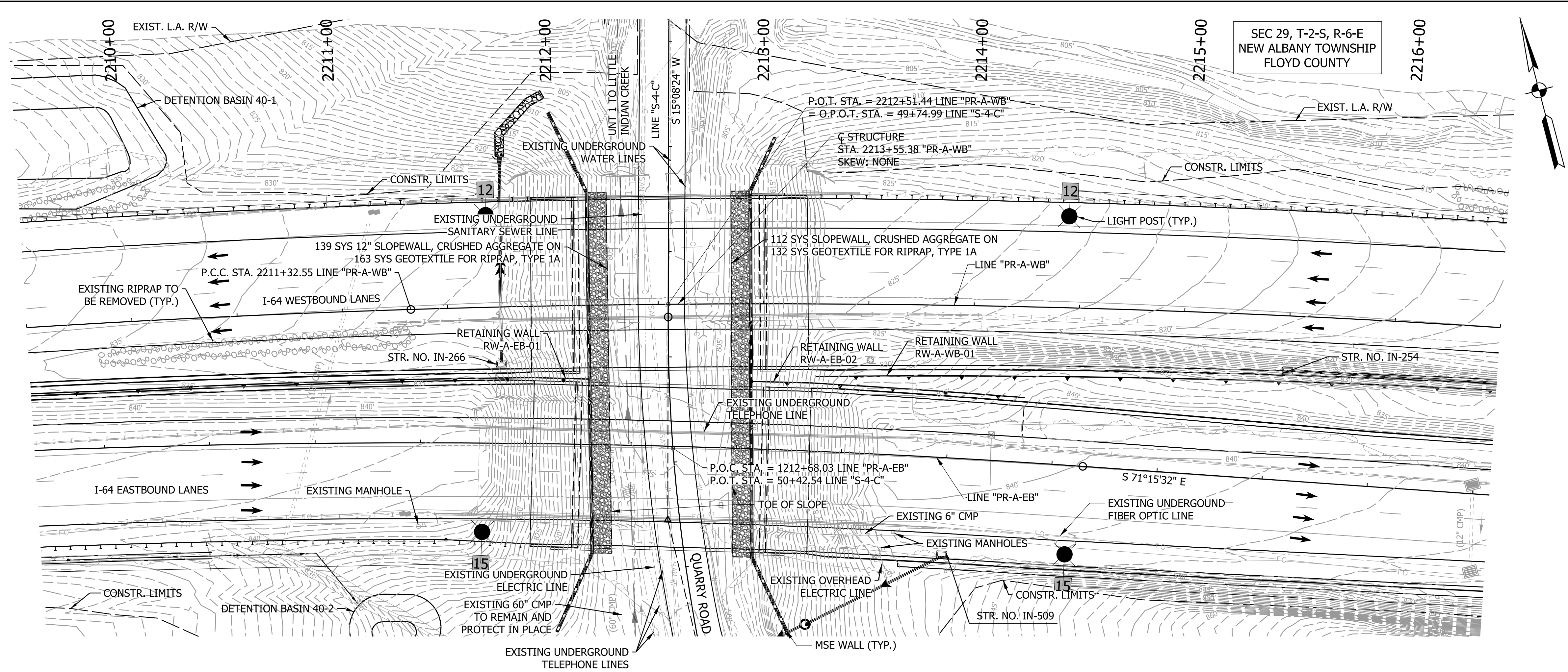
INDIANA  
DEPARTMENT OF TRANSPORTATION

PLAN SHEET  
LINE "S-4-C"  
STA. 47+31 TO STA. 51+70

|                              |                              |
|------------------------------|------------------------------|
| HORIZONTAL SCALE<br>1" = 50' | BRIDGE FILE<br>I64-120-10742 |
| VERTICAL SCALE<br>1" = 10'   | DESIGNATION<br>2200015       |
| SURVEY BOOK<br>ELECTRONIC    | SHEETS<br>7 of 21            |
| CONTRACT<br>R-42570          | PROJECT<br>1900162           |

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SEC 29, T-2-S, R-6-E  
 NEW ALBANY TOWNSHIP  
 FLOYD COUNTY

**EXISTING STRUCTURE**  
 EXISTING STRUCTURE (I64-120-04984 CWBL) IS A THREE-SPAN (49'-6 1/2", 50'-1", 49'-6 1/2") PRESTRESSED CONCRETE COMPOSITE I-BEAM BRIDGE WITH A 56'-2" CLEAR ROADWAY. STRUCTURE IS TO BE REMOVED. EXISTING BRIDGE PLANS ON FILE WITH THE INDIANA DEPARTMENT OF TRANSPORTATION AS FILE NO. I64-120-04984, A, B, & CWBL.

**EARTHWORK TABULATION**  
 FOR EARTHWORK SUMMARY, SEE ROAD PLANS DES. NO. 1900162

**NOTE TO REVIEWER**  
 UTILITY COORDINATION IS ONGOING AND ONCE FINALIZED THE EXISTING UTILITIES WILL BE IDENTIFIED AS "TO REMAIN & PROTECT-IN-PLACE", "RELOCATED", OR "ABANDONED" AS REQUIRED.

**HORIZONTAL CURVE DATA FOR LINE "PR-A-WB"**

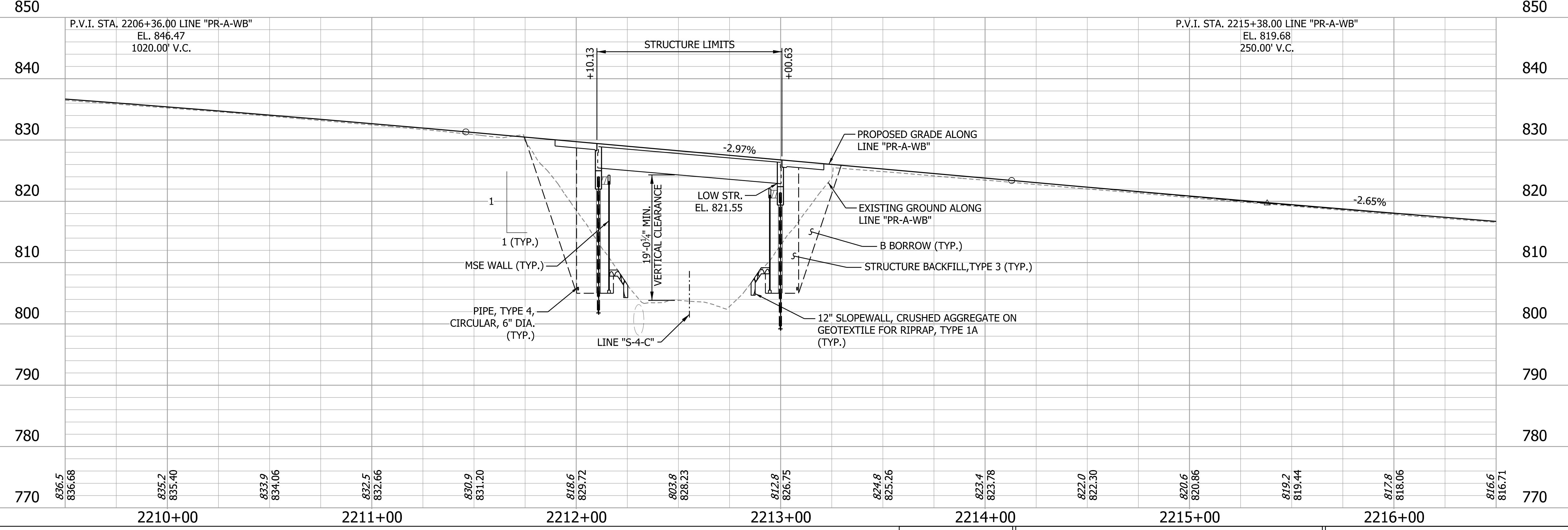
| CURVE 1                        | CURVE 2                        |
|--------------------------------|--------------------------------|
| P.I. 2194+92.44 LINE "PR-A-WB" | P.I. 2214+08.96 LINE "PR-A-WB" |
| $\Delta = 33^{\circ}07'08"$ RT | $\Delta = 05^{\circ}54'54"$ RT |
| D = 0°58'51.60"                | D = 01°04'15.41"               |
| R = 5843.17'                   | R = 5350.01'                   |
| T = 1737.40'                   | T = 276.41'                    |
| L = 3377.51'                   | L = 552.08'                    |
| E = 252.83'                    | E = 7.14'                      |
| SE = 3.00%                     | SE = 3.00%                     |

**HORIZONTAL CURVE DATA FOR LINE "S-4-C"**

|                                    |
|------------------------------------|
| P.I. 50+61.37 LINE "S-4-C"         |
| $\Delta = 14^{\circ}25'54.66"$ LT. |
| D = 07°00'00.00"                   |
| R = 818.51'                        |
| T = 103.63'                        |
| L = 206.17'                        |
| E = 6.53'                          |
| SE = N.C.                          |

- NOTES:**
- FOR REFERENCE TIES AND BENCHMARKS, SEE ROAD PLANS DES. NO. 1900162.
  - FOR DITCH GRADES & GUARDRAIL LIMITS, SEE PLAN & PROFILE SHEET OF ROAD PLANS DES. NO. 1900162.
  - FOR RETAINING WALL RW-A-EB-01, RW-A-EB-02, AND RW-A-WB-01 DETAILS, SEE ROAD PLANS DES. NO. 1900162.
  - FOR EXISTING AND PROPOSED UTILITIES, DRAINAGE, LIGHTING, SIGNING, AND ITS, SEE ROAD PLANS DES. NO. 1900162.

**COMPOSITE PRESTRESSED CONCRETE BULB-TEE BEAM BRIDGE**  
 1 SPAN: 89'-0"  
 79'-8" CLEAR ROADWAY  
 SKEW: NONE  
 I-64 WB OVER QUARRY ROAD  
 FLOYD COUNTY

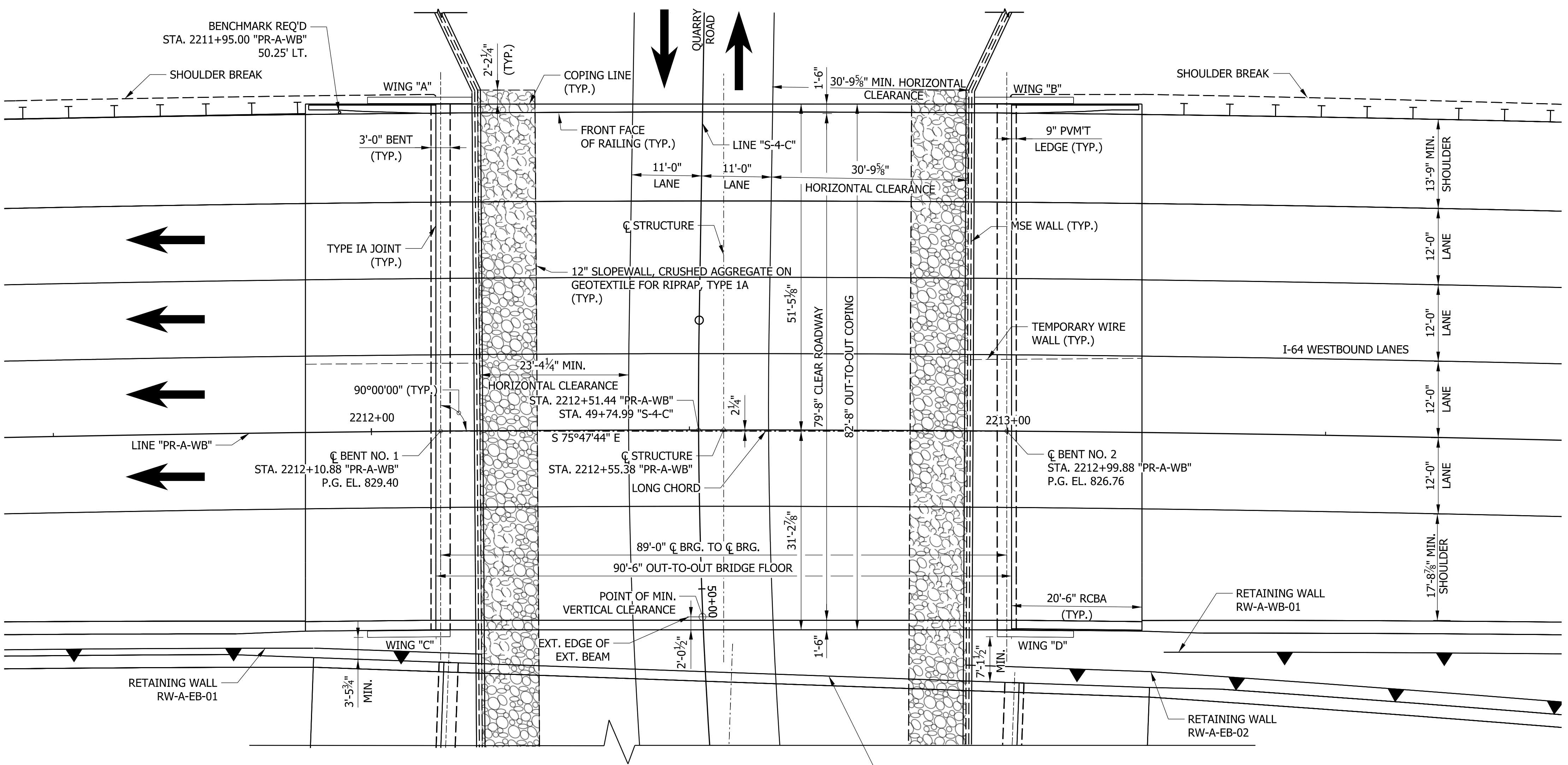
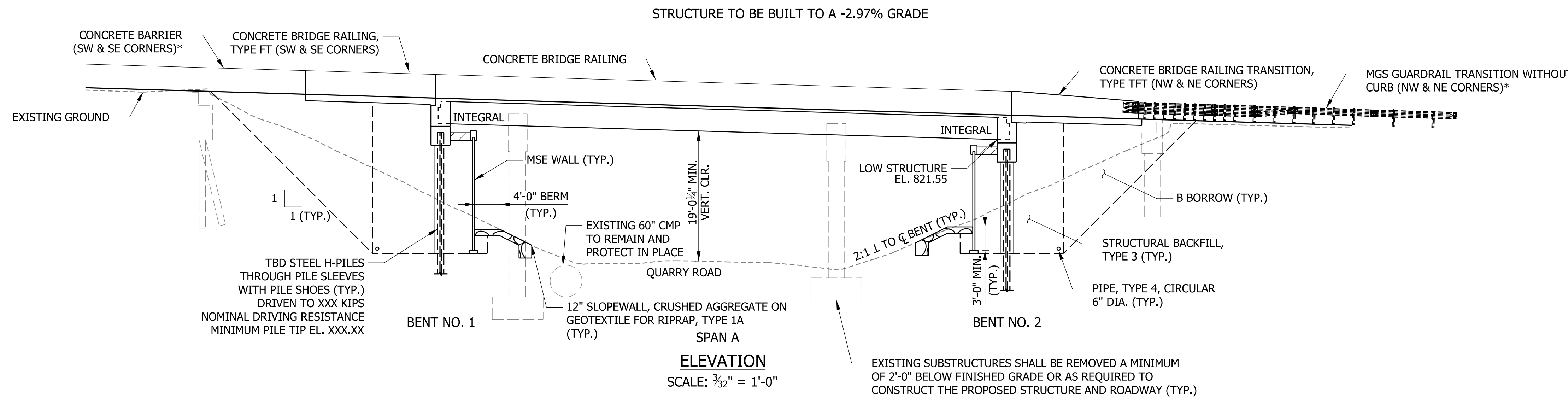


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| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: PTT            | DRAWN: PTT      |      |
| CHECKED: TMB             | CHECKED: TMB    |      |

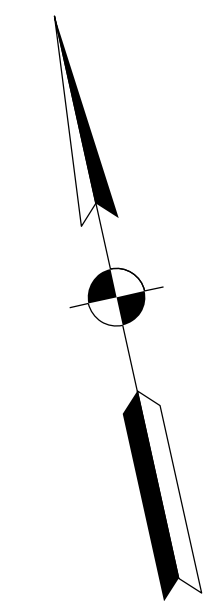
INDIANA DEPARTMENT OF TRANSPORTATION  
 LAYOUT - LINE "PR-A-WB"

| HORIZONTAL SCALE | BRIDGE FILE   |        |
|------------------|---------------|--------|
| 1" = 30'         | I64-120-10742 |        |
| VERTICAL SCALE   | DESIGNATION   |        |
| 1" = 10'         | 2200015       |        |
| SURVEY BOOK      | SHEETS        | LAY-01 |
| ELECTRONIC       | 10            | of 21  |
| CONTRACT         | PROJECT       |        |
| R-42570          | 1900162       |        |



**NOTE TO REVIEWER**

THE GEOTECHNICAL INVESTIGATION IS CURRENTLY UNDERWAY AND PILE AND FOUNDATION INFORMATION WILL BE ADDED AT A FUTURE SUBMITTAL.



- LEGEND:**
- NW DENOTES NORTHWEST
  - SW DENOTES SOUTHWEST
  - NE DENOTES NORTHEAST
  - SE DENOTES SOUTHEAST
  - \* ROADWAY ITEMS UNDER LEAD DES 1900162
- NOTES:**
1. FOR RETAINING WALL DETAILS, SEE I-64 EB OVER QUARRY ROAD (DES. NO. 1700207).

**COMPOSITE PRESTRESSED CONCRETE  
BULB-TEE BEAM BRIDGE  
1 SPAN: 89'-0"  
79'-8" CLEAR ROADWAY  
SKEW: NONE  
I-64 WB OVER QUARRY ROAD  
FLOYD COUNTY**

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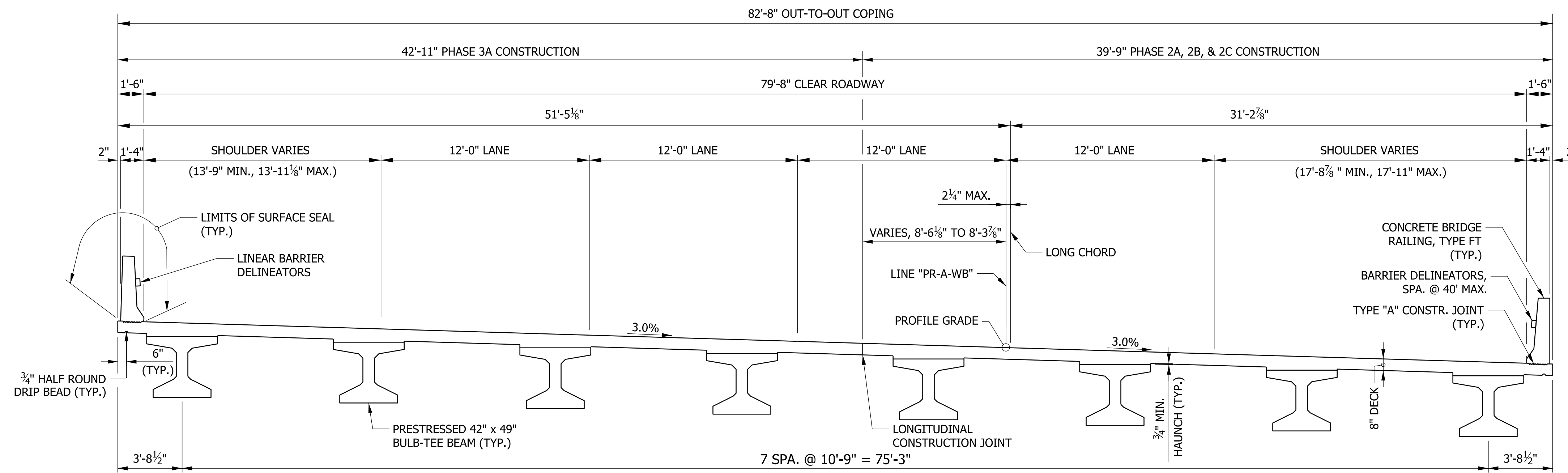
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|--------------------------------|--------------------------|------------|
| RECOMMENDED FOR APPROVAL _____ | DESIGN ENGINEER _____    | DATE _____ |
| DESIGNED: _____ PTT _____      | DRAWN: _____ PTT _____   |            |
| CHECKED: _____ TMB _____       | CHECKED: _____ TMB _____ |            |

**INDIANA  
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN**

|                                   |                              |
|-----------------------------------|------------------------------|
| HORIZONTAL SCALE<br>3/32" = 1'-0" | BRIDGE FILE<br>164-120-10742 |
| VERTICAL SCALE<br>3/32" = 1'-0"   | DESIGNATION<br>2200015       |
| SURVEY BOOK<br>ELECTRONIC         | SHEETS<br>11 of 21           |
| CONTRACT<br>R-42570               | PROJECT<br>1900162           |



**TYPICAL SECTION**  
SCALE: 1/4" = 1'-0"

**GENERAL NOTES**

ALL DIMENSIONS AND ELEVATIONS ARE IN FEET (FT), UNLESS NOTED OTHERWISE.  
 REINFORCING BAR COVER SHALL BE 2 1/2" IN TOP AND 1" IN THE BOTTOM OF THE FLOOR SLAB, AND 2" IN ALL OTHER PARTS, UNLESS OTHERWISE NOTED.  
 ALL EXPOSED FACES OF THE CONCRETE BRIDGE RAILINGS, CONCRETE BRIDGE RAILING TRANSITIONS, WINGS, AND END BENTS SHALL BE SURFACE SEALED. (ESTIMATED QUANTITY = 2089 SF.)

**DESIGN DATA**

**LIVE LOAD**  
 DESIGNED FOR HL-93 LOADING, IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, NINTH EDITION, 2020, AND SUBSEQUENT INTERIMS.

**DEAD LOAD**  
 ACTUAL WEIGHT PLUS 35 PSF (COMPOSITE) FOR FUTURE WEARING SURFACE AND 15 PSF (NON-COMPOSITE) FOR PERMANENT METAL DECK FORMS.

**FLOOR SLAB**  
 DESIGNED FOR A 7 1/2" STRUCTURAL DEPTH AND A 1/2" SACRIFICIAL WEARING SURFACE.

**DESIGN STRENGTHS**  
 CLASS "C" CONCRETE: f<sub>c</sub> = 4,000 PSI  
 REINFORCING BARS: f<sub>y</sub> = 60,000 PSI  
 PRESTRESSED CONCRETE, NORMAL WEIGHT:  
 f<sub>c</sub> = 8,000 PSI @ 28 DAYS  
 INITIAL f<sub>c</sub> = 6,000 PSI @ RELEASE OF STRANDS  
 PRESTRESSING STRANDS:  
 0.6" Ø 7 WIRE LOLAX STRANDS (A<sub>s</sub> = 0.217 SQ. IN.)  
 MIN. TENSILE STRENGTH = 270,000 PSI  
 INITIAL PULL = 43,940 LBS. PER STRAND

**CONSTRUCTION LOADING**  
 THE EXTERIOR BEAMS HAVE BEEN CHECKED FOR STRENGTH, DEFLECTION, AND OVERTURNING USING CONSTRUCTION LOADS SHOWN BELOW. CANTILEVER OVERHANG BRACKETS WERE ASSUMED FOR SUPPORT OF THE DECK OVERHANG PAST THE EDGE OF EXTERIOR BEAM. THE FINISHING MACHINE WAS ASSUMED TO BE SUPPORTED 6 INCHES OUTSIDE THE VERTICAL COPING FORM. THE TOP OVERHANG BRACKETS WERE ASSUMED TO BE LOCATED 6 INCHES PAST THE EDGE OF THE VERTICAL COPING FORM. THE BOTTOM OVERHANG BRACKETS WERE ASSUMED TO BE BRACED AGAINST THE INTERSECTION OF THE BEAM BOTTOM FLANGE AND WEB.

**DECK FALSEWORK LOADS**  
 DESIGNED FOR 15 PSF FOR PERMANENT METAL STAY-IN-PLACE DECK FORMS, REMOVABLE DECK FORMS, AND 2-FT. EXTERIOR WALKWAY.

**CONSTRUCTION LIVE LOAD**  
 DESIGNED FOR 20 PSF EXTENDING 2 FT. PAST THE EDGE OF COPING AND 75 PLF VERTICAL FORCE APPLIED AT A DISTANCE OF 6 INCHES OUTSIDE THE FACE OF COPING OVER A 30-FT. LENGTH OF THE DECK CENTERED WITH THE FINISHING MACHINE.

**FINISHING-MACHINE LOAD**  
 4,500 LBS DISTRIBUTED OVER 10 FT. ALONG COPING.

**WIND LOAD**  
 DESIGNED FOR 70 MPH HORIZONTAL WIND LOADING IN ACCORDANCE WITH AASHTO LRFD 3.8.1.

**SEISMIC DATA**  
 SEISMIC PERFORMANCE ZONE: X  
 ACCELERATION COEFFICIENT: X.XXX  
 SEISMIC SOIL PROFILE TYPE: CLASS D

**NOTE TO REVIEWER**  
 SEISMIC DATA WILL BE PROVIDED IN A FUTURE SUBMITTAL ONCE THE GEOTECHNICAL REPORT IS COMPLETE.

**NOTES:**  
 1. FOR LINEAR DELINEATOR DETAILS, SEE SPECIAL PROVISIONS.

**COMPOSITE PRESTRESSED CONCRETE BULB-TEE BEAM BRIDGE**  
 1 SPAN: 89'-0"  
 79'-8" CLEAR ROADWAY  
 SKEW: 0°  
 I-64 WB OVER QUARRY ROAD  
 FLOYD COUNTY

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**DRAFT**  
 NOT FOR CONSTRUCTION

|                                |                          |            |
|--------------------------------|--------------------------|------------|
| RECOMMENDED FOR APPROVAL _____ | DESIGN ENGINEER _____    | DATE _____ |
| DESIGNED: _____ PTT _____      | DRAWN: _____ PTT _____   |            |
| CHECKED: _____ TMB _____       | CHECKED: _____ TMB _____ |            |

|   |  |
|---|--|
| <b>INDIANA DEPARTMENT OF TRANSPORTATION</b> |  |
| <b>GENERAL PLAN</b>                         |  |

|                  |         |               |    |
|------------------|---------|---------------|----|
| HORIZONTAL SCALE |         | BRIDGE FILE   |    |
| AS NOTED         |         | 164-120-10742 |    |
| VERTICAL SCALE   |         | DESIGNATION   |    |
| AS NOTED         |         | 2200015       |    |
| SURVEY BOOK      | SHEETS  | PLN-02        |    |
| ELECTRONIC       | 12      | of            | 21 |
| CONTRACT         | PROJECT |               |    |
| R-42570          | 1900162 |               |    |