| PROJECT | DESIGNATION |
|---|---|
| 1702993 | 1702993 |
| CONTRACT | |
| R-41437 | |

# INDIANA DEPARTMENT OF TRANSPORTATION

# ROAD PLANS
# US 20

## PROJECT NO. 1702993 P.E.
## 1702993 R/W
## 1702993 CONST.

| KIN PROJECT INFORMATION | |
|---|---|
| DESIGNATION | PROJECT DESCRIPTION |
| 1900049 | US 20 From 0.15 Miles East Of US 35 To A Point 1.25 Miles East Of US 35 Including Adding A Two-way Left Turn Lane, Improve And Widen Shoulders, Replace Or Add New Pavement Markings. |
| 1900050 | US 20 From 3.1 Miles East Of SR 39 To A Point 4.85 Miles East Of SR 39 Including Adding A Two-way Left Turn Lane, Improve And Widen Shoulders, Replace Or Add New Pavement Markings. |
| 1702992 | US 20 From 4.8 Miles East Of SR 39 (C.R. 300 E) To 7.2 Miles East Of SR 39 (C.R. 500 E) Including Adding A Two-way Left Turn Lane, Improve And Widen Shoulders, Replace Or Add New Pavement Markings. |

The Indiana Department of Transportation (INDOT) LaPorte District Is Planning To Make Improvements To US 20 From SR 39 To 2.88 Miles East Of SR 39 (Fail Rd.) Including Adding A Two-way Left Turn Lane And Widened Shoulders In Sections 1, 2, And 12, T 37 N. Range 3 W And Sections 6 And 7, T 37 N. Range 2 W, Springfield And Kankakee Townships, Laporte County, Indiana.

GROSS LENGTH: 2.88 Mi.
NET LENGTH: 2.88 Mi.

SCALES:

PLAN {LONG:- 1"=50' TRANS:- 1"=50'  PROFILE {HORIZ:- 1"=50' VERT:- 1"=10'  MAX. GRADE- 3.90%

BEGIN PROJECT
P.O.T. Sta. 255+25.28 "D"

END PROJECT
P.O.T. Sta. 407+41.72 "D"

SCALE: 1"=1000'

VICINITY MAP
LAPORTE COUNTY

| TRAFFIC DATA | | US 20 |
|---|---|---|
| A.A.D.T. | (2024) | 28,700 V.P.D. |
| A.A.D.T. | (2044) | 34,400 V.P.D. |
| D.H.V. | (2044) | 3,440 V.P.H. |
| DIRECTIONAL DISTRIBUTION | | 56/44 % |
| TRUCKS | | 37 % D.H.V. |
| | | 37 % A.A.D.T. |

| DESIGN DATA | |
|---|---|
| DESIGN SPEED | 45/55 MPH |
| FUNCTIONAL CLASSIFICATION | OTHER PRINCIPAL ARTERIAL |
| TERRAIN | LEVEL |
| RURAL/URBAN | RURAL |
| ACCESS CONTROL | NONE |
| PROJECT DESIGN CRITERIA | 3R NON-FREEWAY |
| | |

PROJECT LOCATION SHOWN BY

Begin Approx. 41°41'08" N. Lat. & 86°44'12" W. Long.
End Approx. 41°40'43" N. Lat. & 86°40'55" W. Long.

RP 48+0.801 TO 51+0.759

HUC - 04040001100050

INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 2022 AND STANDARD DRAWINGS EFFECTIVE SEPTEMBER 2021 TO BE USED WITH THESE PLANS.

PLANS PREPARED BY: Butler Fairman and Seufert Inc. (317)713-4615 PHONE

CERTIFIED BY: DATE

APPROVED FOR LETTING: INDIANA DEPARTMENT OF TRANSPORTATION DATE

| BRIDGE FILE | |
|---|---|
| | |
| DESIGNATION | |
| 1702993 | |
| SURVEY BOOK | SHEET |
| | 01 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

# PRELIMINARY PLANS

\\bfsrof2\Jobs5\6453.0000\Proj\Development\Design\Drawings\6453_R101.dwg Dillon Mong Plot: 4/22/2022 7:11 AM Save: 3/25/2022 9:21 AM

## UTILITIES

CABLE:
Comcast
16 West 84th Drive
Merrillville, In. 46405
(224) 229-6850
Attn. Larry Smith
Larry Smith3@cable.comcast.com

COMMUNICATIONS:
Automated Data (Acme)
618 Franklin Street
Michigan City, In. 46360
(219) 879-6600
Attn. William Ritchey
BWRitchey@adsnet.com

COMMUNICATIONS:
AT&T Distribution
107 Mariner Drive
Michigan City, In. 46360
(219) 972-5687
Attn. Rich Schulte
rs2763@att.com

COMMUNICATIONS:
Frontier Communications
2401 Chicago Street
Valparaiso, In. 46383
(219) 531-2118
Attn. DianaSacks
diana.l.sacks@ftr.com

INDOT SIGNALS:
INDOT LaPorte
315 East Boyd Boulevard
LaPorte, In. 46350
(219) 325-7581
Attn. Adam Banks
abanks1@indot.in.com

GAS:
NIPSCO
1501 St. Rd. 2 West
Laporte, In. 46350
(219) 325-4284
Attn. Lisa Taylor
letaylor@nisource.com

ELECTRIC:
AEP Distribution
2929 Lathrop Street
South Bend, In. 46628
(574) 236-1658
Attn. Antonio Macias
amacias@aep.com

ELECTRIC:
AEP Transmission
8500 Smith's Mill Rd.
New Albany, Oh. 43054
(614) 933-2297
Attn. Josh Adams
TL PublicProjects@aep.com

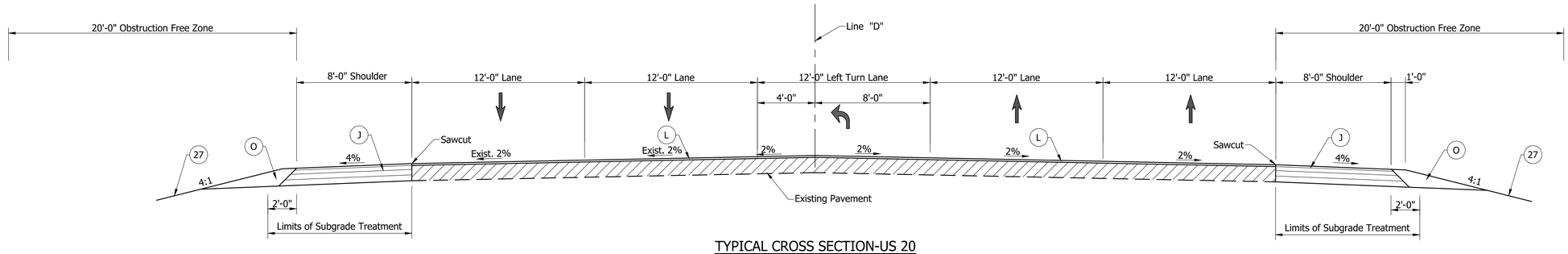
FIBER:
Century Link Fiber
(317) 736-5309
Attn. James Foutz
James.Foutz@CenturyLink.com

PIPELINE:
Wolverine Pipe Line Company
8075 Creekside Drive, Suite 210
Portage, Mi. 49024
(269) 323-2491
Attn. Louis Kraus
Louis Kraus@wplco.com

PIPELINE:
Wolverine Pipe Line Company
8075 Creekside Drive, Suite 210
Portage, Michigan 49024
Attn. Jessica Hunter
Jessica_Hunter@wplco.com

## REVISIONS

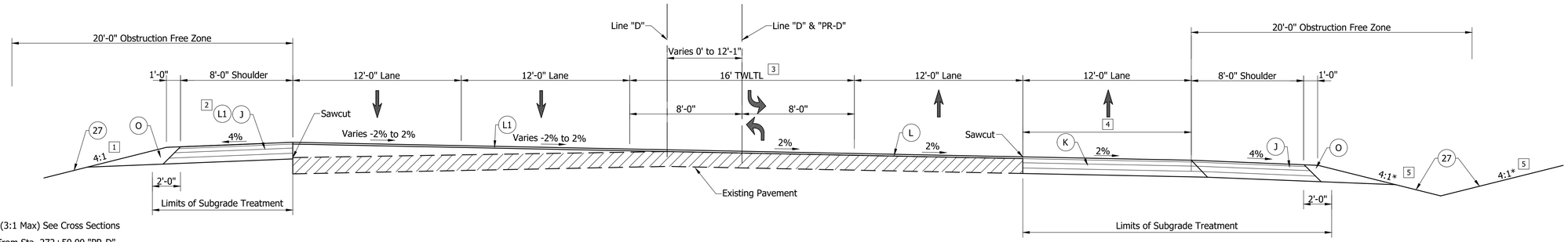
| SHEET NO. | DATE | REVISED |
|---|---|---|
| | | |
| | | |
| | | |




## TYPICAL CROSS SECTION-US 20

Scale: 1/4" = 1'-0'

Sta. 255+25.28 "D" to Sta. 255+82.54 "D"




## TYPICAL CROSS SECTION-US 20

Scale: 1/4" = 1'-0'

Sta. 255+82.54 "D" to Sta. 287+75.78 "PR-D"

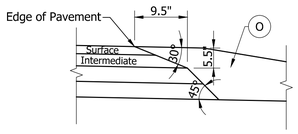
1 Slopes Vary (3:1 Max) See Cross Sections

2 L1 Overlay From Sta. 272+50.00 "PR-D" to Sta. 285+00.00 "PR-D"

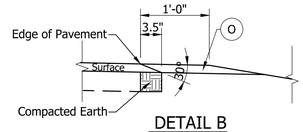
3 Varies 12'-0" to 16'-0" From Sta. 258+91.49 "PR-D" to Sta. 260+79.03 "PR-D"

4 12'-0" Widening From Sta. 260+17.00 "PR-D" to Sta. 268+25.00 "PR-D"
17'-0" Widening From Sta. 268+25.00 "PR-D" to Sta. 285+75.78 "PR-D"

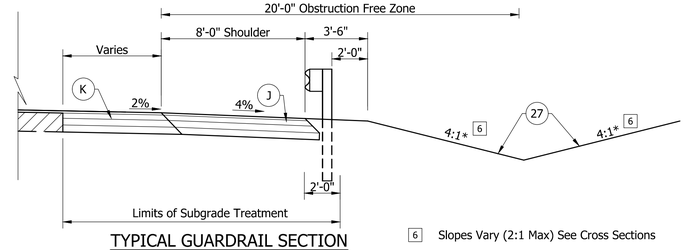
5 Slopes Vary (2:1 Max) See Cross Sections




## DETAIL A
## MODIFIED SAFETY EDGE
Not to Scale




## DETAIL B
## MODIFIED SAFETY EDGE
Not to Scale




## TYPICAL GUARDRAIL SECTION

Scale: 1/4" = 1'-0'

Sta. 280+71.97 "PR-D" to Sta. 285+93.91 "PR-D" Right
Sta. 341+22.91 "PR-D" to Sta. 344+86.62 "PR-D" Right

6 Slopes Vary (2:1 Max) See Cross Sections

## LEGEND

(K) Full Depth HMA, Consisting of
220#/Syd. QC/QA HMA, 4, 76, Surface, 9.5 mm On
385#/Syd. QC/QA HMA, 4, 76 Intermediate, 19.0 mm On
1155#/Syd. QC/QA HMA, 4, 64, Base, 25.0 mm (Placed in 2 Lifts) On
Subgrade Treatment, Type IBC

(L) HMA Mill & Overlay
220#/Syd. QC/QA HMA, 4, 76, Surface, 9.5 mm On
2" Milling, Asphalt

(L1) HMA Mill & Overlay
220#/Syd. QC/QA HMA, 4, 76, Surface, 9.5 mm On
Variable Depth QC/QA HMA, 4, 76, Intermediate, 19.0 mm On
Variable Depth QC/QA HMA, 4, 64, Base, 25 mm On
Milling, Profile

(J) Full Depth HMA Shoulder, Consisting of
220#/Syd. QC/QA HMA, 3, 64, Surface, 9.5 mm On
385#/Syd. QC/QA HMA, 3, 64 Intermediate, 19.0 mm On
550#/Syd. QC/QA HMA, 2, 64, Base, 25.0 mm On
5.5" of No. 53 Compacted Aggregate On
Subgrade Treatment, Type IBC

(O) Compacted Agg. No. 53

(27) Mulched Seeding, R

NOTE:
1. Sta. 255+25.28 "D" to Sta. 407+41.72 "D" : Contractor Shall Install Centerline And Shoulder Rumble Stripes, In accordance With Standard Drawings E 606-SHCG-07 And E 606-SHCG-10, Respectively.
2. See Sheet No. 60-61 For Superelevation Diagrams.
3. See Sheet No. 06 For Riprap/Sodded Ditch Details. See Plan And Profiles For Riprap/Sodded Ditch Locations And Limits.

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JCS DRAWN: BKM

CHECKED: JWG CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1/4"=1'-0" | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 03 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

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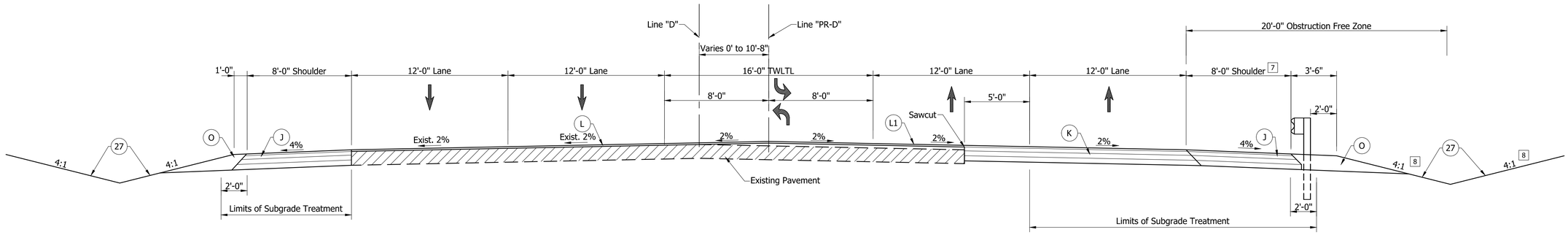
PRELIMINARY PLANS



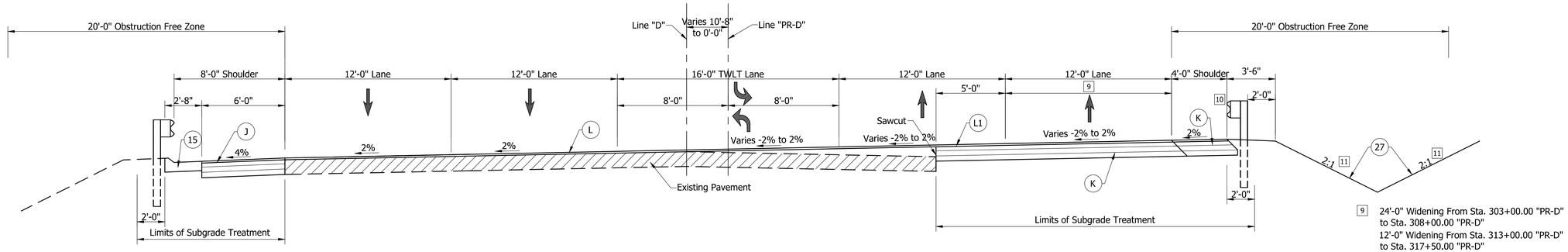

## TYPICAL CROSS SECTION-US 20

Scale: 1/4" = 1'-0'

Sta. 287+75.78 "PR-D" to Sta. 300+00.25 "PR-D"

7 Shoulder Varies 8'-0" to 4'-0" From Sta. 297+58.90 "D" to Sta. 297+83.90 "D"

8 Slopes Vary (3:1 Max.) See Cross Sections




## TYPICAL CROSS SECTION-US 20

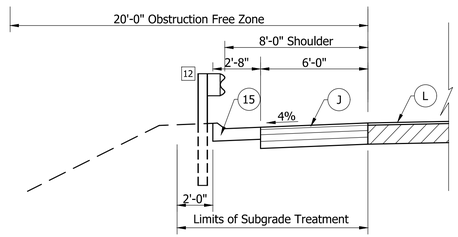
Scale: 1/4" = 1'-0'

Sta. 300+00.25 "PR-D" to Sta. 318+21.66 "D"

9 24'-0" Widening From Sta. 303+00.00 "PR-D" to Sta. 308+00.00 "PR-D"
12'-0" Widening From Sta. 313+00.00 "PR-D" to Sta. 317+50.00 "PR-D"
5'-0" Widening From Sta. 317+50.00 "PR-D" to Sta. 318+21.66 "D"

10 Guardrail Ends At Sta. 313+01.32 "PR-D"

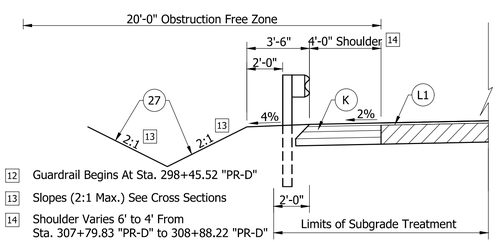
11 Slopes Vary (2:1 Max.) See Cross Sections




## TYPICAL GUARDRAIL SECTION

Scale: 1/4" = 1'-0'

Sta. 298+51.11 "PR-D" to Sta. 307+79.83 "PR-D" Left




12 Guardrail Begins At Sta. 298+45.52 "PR-D"

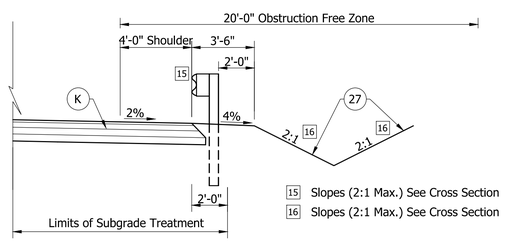
13 Slopes (2:1 Max.) See Cross Sections

14 Shoulder Varies 6' to 4' From Sta. 307+79.83 "PR-D" to 308+88.22 "PR-D"

## TYPICAL GUARDRAIL SECTION

Scale: 1/4" = 1'-0'

Sta. 307+79.83 "PR-D" to Sta. 314+87.16 "PR-D" Left



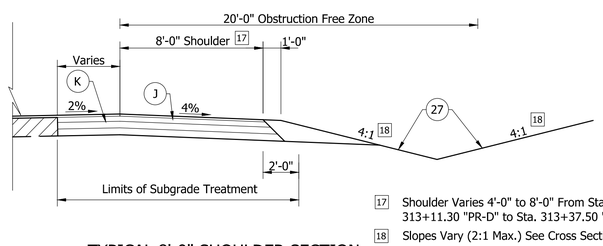

15 Slopes (2:1 Max.) See Cross Section

16 Slopes (2:1 Max.) See Cross Section

## TYPICAL GUARDRAIL SECTION

Scale: 1/4" = 1'-0'

Sta. 297+83.90 "PR-D" to Sta. 300+00.25 "PR-D" Right




17 Shoulder Varies 4'-0" to 8'-0" From Sta. 313+11.30 "PR-D" to Sta. 313+37.50 "PR-D"

18 Slopes Vary (2:1 Max.) See Cross Sections

## TYPICAL 8'-0" SHOULDER SECTION

Scale: 1/4" = 1'-0'

Sta. 313+11.30 "PR-D" to Sta. 318+21.66 "D" Right

## LEGEND

(K) Full Depth HMA, Consisting of
220#/Syd. QC/QA HMA, 4, 76, Surface, 9.5 mm On
385#/Syd. QC/QA HMA, 4, 76 Intermediate, 19.0 mm On
1155#/Syd. QC/QA HMA, 4, 64, Base, 25.0 mm (Placed in 2 Lifts) On
Subgrade Treatment, Type IBC

(L) HMA Mill & Overlay
220#/Syd. QC/QA HMA, 4, 76, Surface, 9.5 mm On
2" Milling, Asphalt

(L1) HMA Mill & Overlay
220#/Syd. QC/QA HMA, 4, 76, Surface, 9.5 mm On
Variable Depth QC/QA HMA, 4, 76, Intermediate, 19.0 mm On
Variable Depth QC/QA HMA, 4, 64, Base, 25 mm On
Milling, Profile

(J) Full Depth HMA Shoulder, Consisting of
220#/Syd. QC/QA HMA, 3, 64, Surface, 9.5 mm On
385#/Syd. QC/QA HMA, 3, 64 Intermediate, 19.0 mm On
550#/Syd. QC/QA HMA, 2, 64, Base, 25.0 mm On
5.5" of No. 53 Compacted Aggregate On
Subgrade Treatment, Type IBC

(O) Compacted Agg. No. 53

(15) Concrete Curb and Gutter, Type B

(27) Mulched Seeding, R

| | | | |
|---|---|---|---|
| RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE | | INDIANA DEPARTMENT OF TRANSPORTATION | HORIZONTAL SCALE: 1/4"=1'-0" / BRIDGE FILE: |
| DESIGNED: JCS | DRAWN: BKM | TYPICAL CROSS SECTIONS | VERTICAL SCALE: N/A / DESIGNATION: 1702993 |
| CHECKED: JWG | CHECKED: JCS | | SURVEY BOOK: / SHEET: 04 OF 283 |
| | | | CONTRACT: R-41437 / PROJECT: 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS

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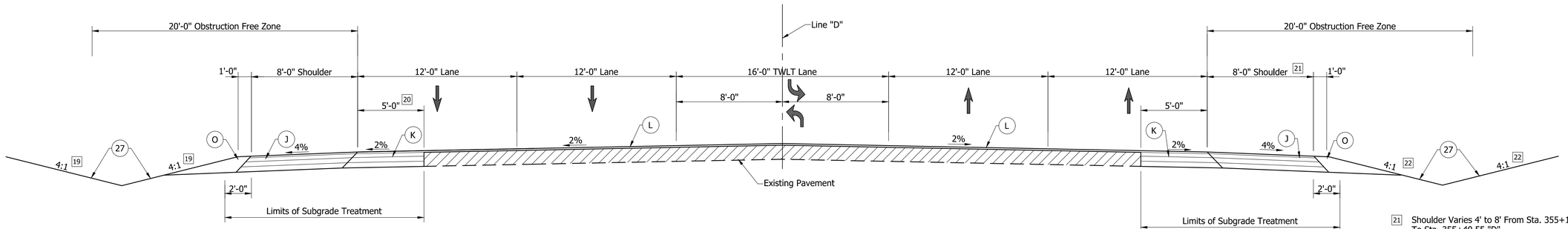



19 Slopes Vary (2:1 Max.) See Cross Sections

20 12'-0" Widening From Sta. 330+50.00 "D" to Sta. 334+50.00 "D"
7'-0" Widening From Sta. 390+85.00 "D" to Sta. 400+85.00 "D"

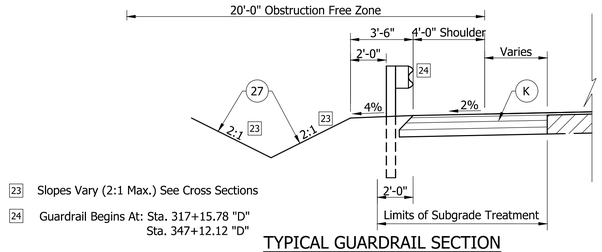
21 Shoulder Varies 4' to 8' From Sta. 355+16.59 "D" To Sta. 355+40.55 "D"

22 Slopes Vary (2:1 Max.) See Cross Sections

## TYPICAL CROSS SECTION-US 20

Scale: 1/4" = 1'-0'

Sta. 318+21.66 "D" to Sta. 374+44.80 "D"
Sta. 389+84.81 "D" to Sta. 400+85.00 "D"



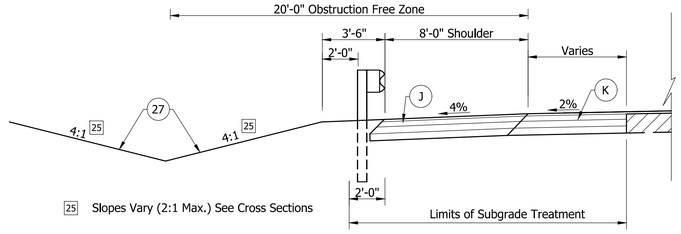

23 Slopes Vary (2:1 Max.) See Cross Sections

24 Guardrail Begins At: Sta. 317+15.78 "D"
Sta. 347+12.12 "D"

## TYPICAL GUARDRAIL SECTION

Scale: 1/4" = 1'-0'

Sta. 316+00.00 "D" to Sta. 345+11.31 "D" Left
Sta. 347+05.86 "D" to Sta. 354+25.49 "D" Left

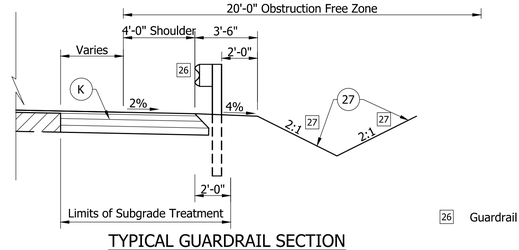



25 Slopes Vary (2:1 Max.) See Cross Sections

## TYPICAL GUARDRAIL SECTION

Scale: 1/4" = 1'-0'

Sta. 341+22.84 "D" to Sta. 344+86.64 "D" Left
Sta. 371+69.56 "D" to Sta. 375+13.82 "D" Left
Sta. 389+61.79 "D" to Sta. 394+86.98 "D" Left



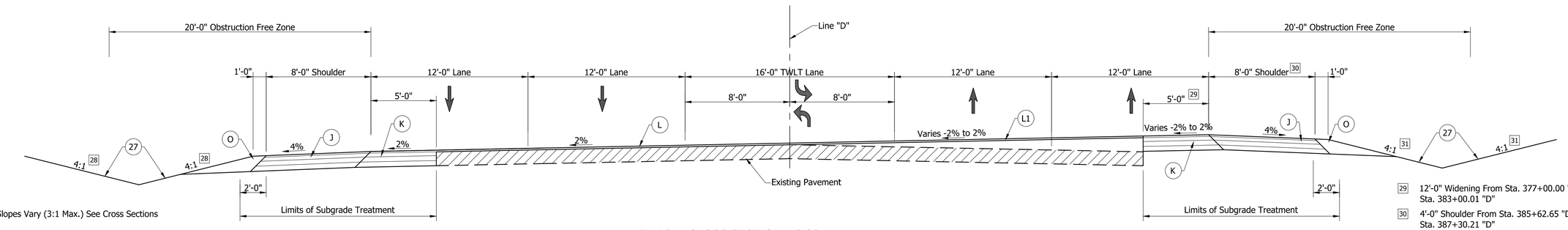

26 Guardrail Begins At: Sta. 327+57.27 "D"
Sta. 355+06.59 "D"
Sta. 392+99.90 "D"

27 Slopes Vary (2:1 Max.) See Cross Sections

## TYPICAL GUARDRAIL SECTION

Scale: 1/4" = 1'-0'

Sta. 322+41.06 "D" to Sta. 327+92.99 "D" Right
Sta. 352+55.97 "D" to Sta. 355+16.59 "D" Right
Sta. 390+18.49 "D" to Sta. 393+09.90 "D" Right




28 Slopes Vary (3:1 Max.) See Cross Sections

29 12'-0" Widening From Sta. 377+00.00 "D" to Sta. 383+00.01 "D"

30 4'-0" Shoulder From Sta. 385+62.65 "D" to Sta. 387+30.21 "D"

31 Slopes Vary (3:1 Max.) See Cross Sections

## TYPICAL CROSS SECTION-US 20

Scale: 1/4" = 1'-0'

Sta. 374+44.80 "D" to Sta. 389+84.81 "D"

## LEGEND

(K) Full Depth HMA, Consisting of
220#/Syd. QC/QA HMA, 4, 76, Surface, 9.5 mm On
385#/Syd. QC/QA HMA, 4, 76 Intermediate, 19.0 mm On
1155#/Syd. QC/QA HMA, 4, 64, Base, 25.0 mm (Placed in 2 Lifts) On
Subgrade Treatment, Type IBC

(L) HMA Mill & Overlay
220#/Syd. QC/QA HMA, 4, 76, Surface, 9.5 mm On
2" Milling, Asphalt

(L1) HMA Mill & Overlay
220#/Syd. QC/QA HMA, 4, 76, Surface, 9.5 mm On
Variable Depth QC/QA HMA, 4, 76, Intermediate, 19.0 mm On
Variable Depth QC/QA HMA, 4, 64, Base, 25 mm On
Milling, Profile

(J) Full Depth HMA Shoulder, Consisting of
220#/Syd. QC/QA HMA, 3, 64, Surface, 9.5 mm On
385#/Syd. QC/QA HMA, 3, 64 Intermediate, 19.0 mm On
550#/Syd. QC/QA HMA, 2, 64, Base, 25.0 mm On
5.5" of No. 53 Compacted Aggregate On
Subgrade Treatment, Type IBC

(O) Compacted Agg. No. 53

(27) Mulched Seeding, R

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JCS DRAWN: BKM

CHECKED: JWG CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS

| | |
|---|---|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1/4"=1'-0" | |
| VERTICAL SCALE | DESIGNATION |
| 1"=10' | 1702993 |
| SURVEY BOOK | SHEET |
| | 05 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

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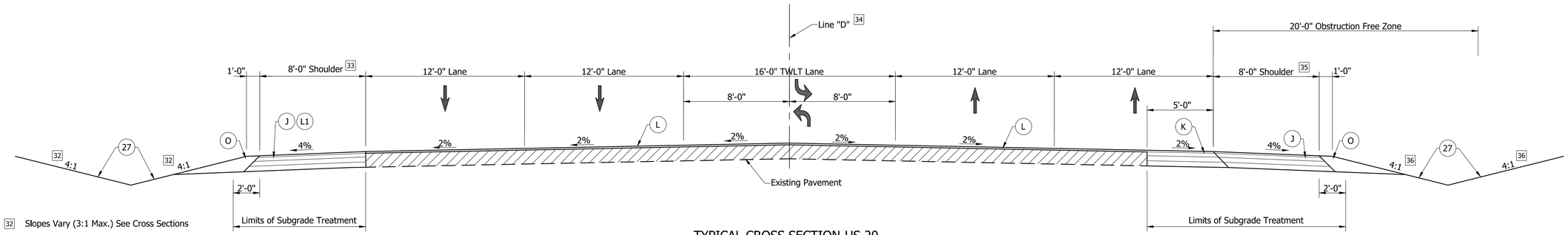
PRELIMINARY PLANS




32 Slopes Vary (3:1 Max.) See Cross Sections

33 Shoulder Varies 8'-0" to 10'-0" From Sta. 406+41.72 "D" to Sta. 407+41.72 "D"
L1 Overlay From Sta. 405+35.02 "D" to Sta. 407+41.72 "D"

## TYPICAL CROSS SECTION-US 20

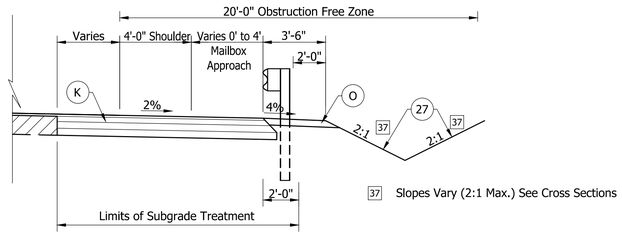
Scale: 1/4" = 1'-0'

Sta. 400+85.00 "D" to Sta. 407+41.72 "D"

34 Line "D" Shifts 0'-0" to 6'-0" Left Of Center From Sta. 399+65.00 "D" to Sta. 407+41.72 "D"

35 Shoulder Varies 8'-0" to 10'-0" From Sta. 406+41.72 "D" to Sta. 407+41.72 "D"
L1 Overlay From Sta. 405+35.02 "D" to Sta. 407+41.72 "D"

36 Slopes Vary (2:1 Max.) See Cross Sections

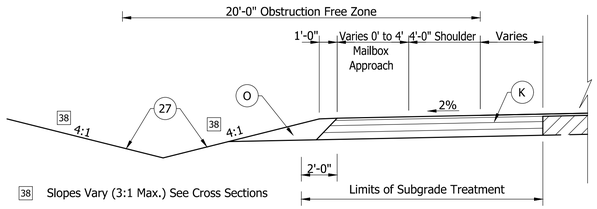



37 Slopes Vary (2:1 Max.) See Cross Sections

## TYPICAL MAILBOX APPROACH SECTION

Scale: 1/4" = 1'-0'

Sta. 323+80.48 "D" to Sta. 324+98.56 "D" Right
Sta. 325+91.88 "D" to Sta. 327+08.85 "D" Left
Sta. 330+75.88 "D" to Sta. 331+91.78 "D" Left

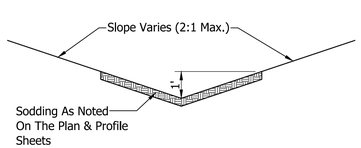



38 Slopes Vary (3:1 Max.) See Cross Sections

## TYPICAL MAILBOX APPROACH SECTION

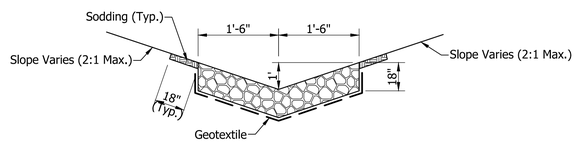
Scale: 1/4" = 1'-0'

Sta. 327+92.99 "D" to Sta. 329+11.07 "D" Right
Sta. 345+76.35 "D" to Sta. 347+05.86 "D" Left
Sta. 385+30.21 "D" to Sta. 388+23.36 "D" Right
Sta. 393+09.89 "D" to Sta. 394+01.71 "D" Right




## SODDED DITCH DETAIL

Not to Scale




## RIPRAP DITCH DETAIL

Not to Scale

## LEGEND

(K) Full Depth HMA, Consisting of
220#/Syd. QC/QA HMA, 4, 76, Surface, 9.5 mm On
385#/Syd. QC/QA HMA, 4, 76 Intermediate, 19.0 mm On
1155#/Syd. QC/QA HMA, 4, 64, Base, 25.0 mm (Placed in 2 Lifts) On
Subgrade Treatment, Type IBC

(L) HMA Mill & Overlay
220#/Syd. QC/QA HMA, 4, 76, Surface, 9.5 mm On
2" Milling, Asphalt

(L1) HMA Mill & Overlay
220#/Syd. QC/QA HMA, 4, 76, Surface, 9.5 mm On
Variable Depth QC/QA HMA, 4, 76, Intermediate, 19.0 mm On
Variable Depth QC/QA HMA, 4, 64, Base, 25 mm On
Milling, Profile

(J) Full Depth HMA Shoulder, Consisting of
220#/Syd. QC/QA HMA, 3, 64, Surface, 9.5 mm On
385#/Syd. QC/QA HMA, 3, 64 Intermediate, 19.0 mm On
550#/Syd. QC/QA HMA, 2, 64, Base, 25.0 mm On
5.5" of No. 53 Compacted Aggregate On
Subgrade Treatment, Type IBC

(O) Compacted Agg. No. 53

(27) Mulched Seeding, R

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JCS DRAWN: JMT

CHECKED: JWG CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1/4"=1'-0" | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 06 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BPS NO. 6453.0000

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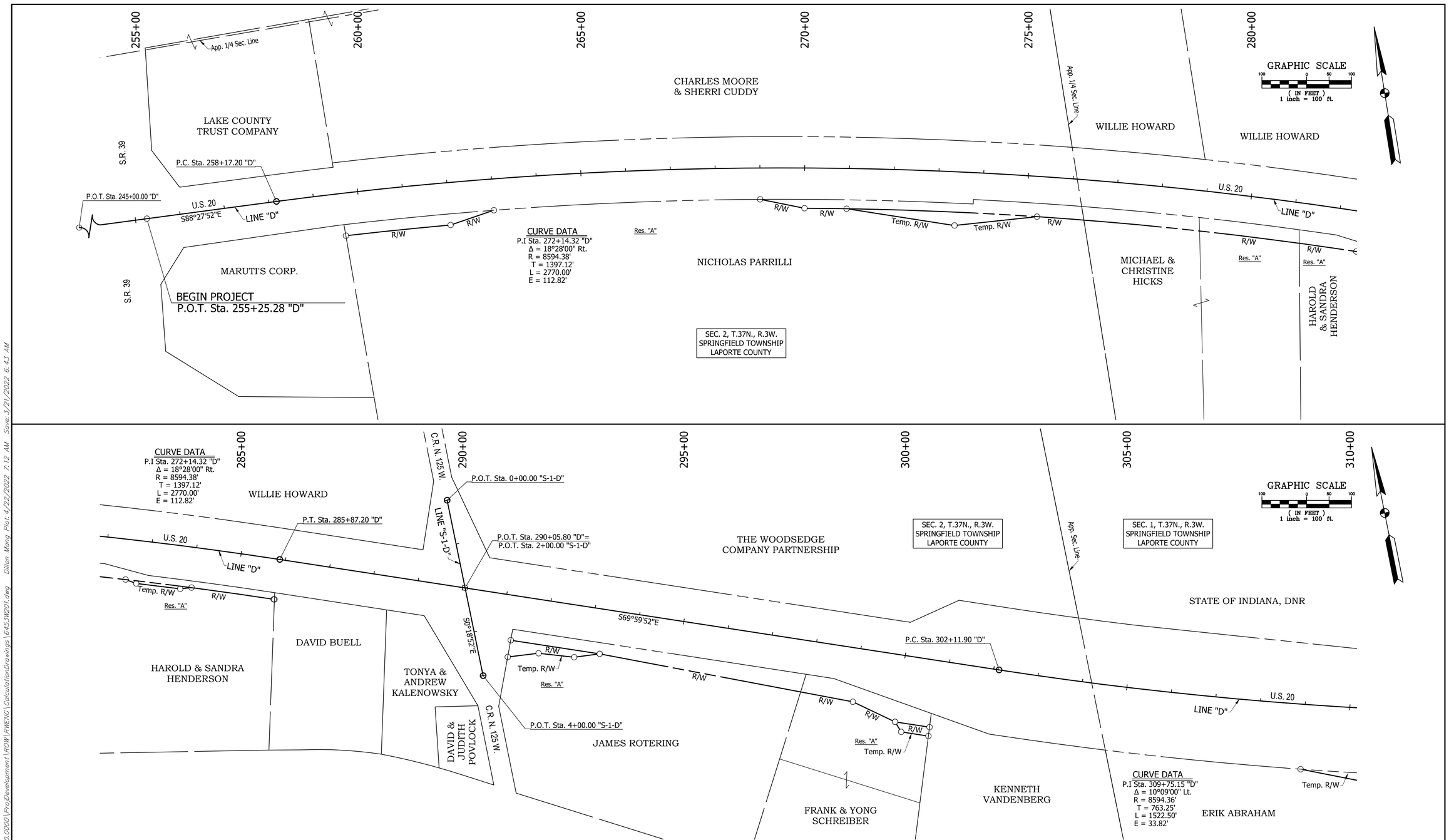
PRELIMINARY PLANS




| | | | | |
|---|---|---|---|---|
| | RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE | INDIANA DEPARTMENT OF TRANSPORTATION | HORIZONTAL SCALE 1"=100' | BRIDGE FILE |
| | DESIGNED: JCS DRAWN: CKH | PLAT NO. 1 | VERTICAL SCALE N/A | DESIGNATION 1702993 |
| | CHECKED: JWG CHECKED: EKG | | SURVEY BOOK | SHEET 07 OF 283 |
| | | | CONTRACT R-41437 | PROJECT 1702993 |

BFS NO. 6453.0000

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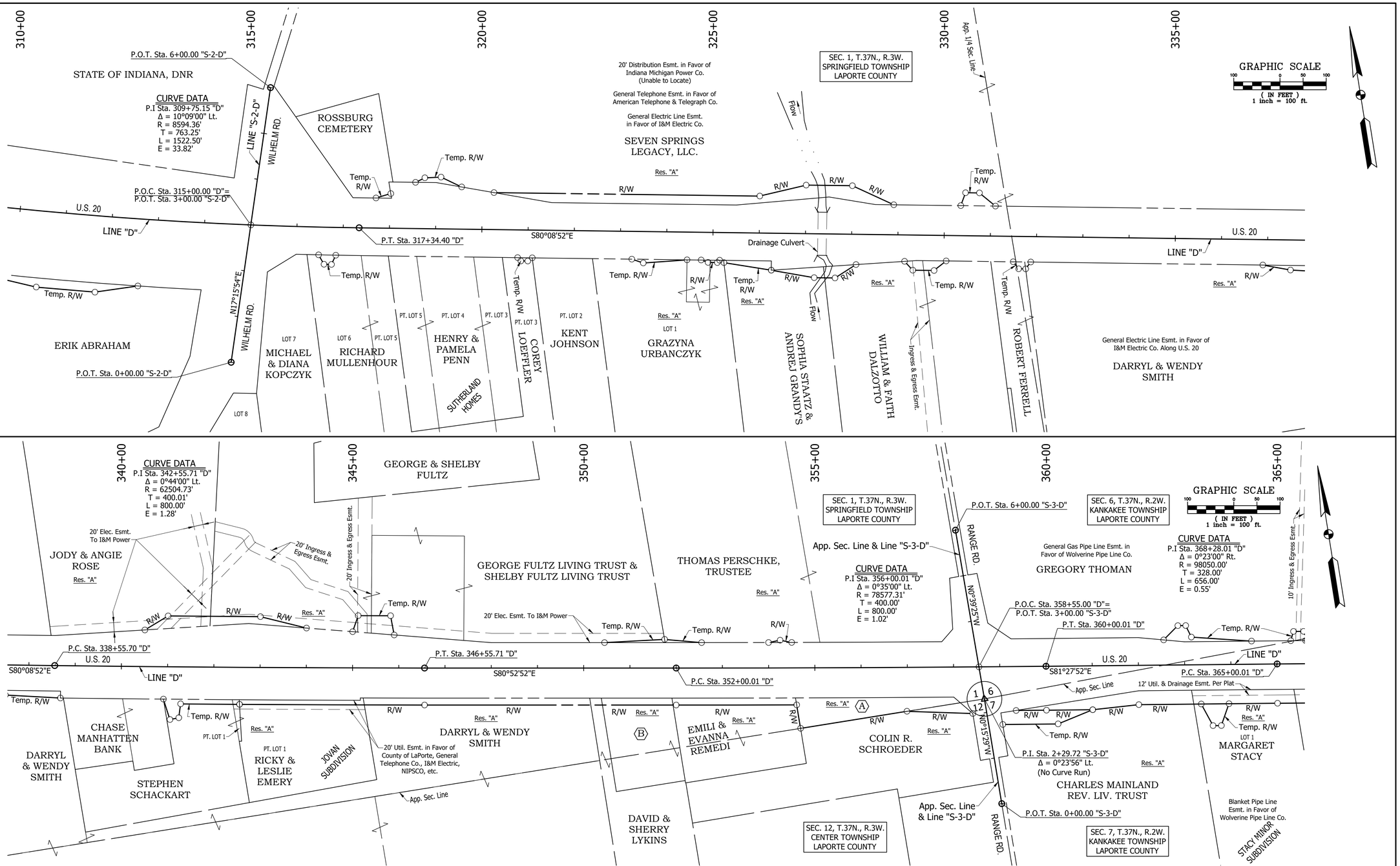
# PRELIMINARY PLANS




| INDEX LETTER | OWNER'S NAME |
|---|---|
| Ⓐ | EDWIN & IMOGENE ESKRIDGE |
| Ⓑ | OPAL LYKINS LIFE ESTATE, ET. AL. |

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JCS DRAWN: CKH

CHECKED: JWG CHECKED: EKG

INDIANA DEPARTMENT OF TRANSPORTATION

PLAT NO. 1

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=100' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 08 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

# PRELIMINARY PLANS

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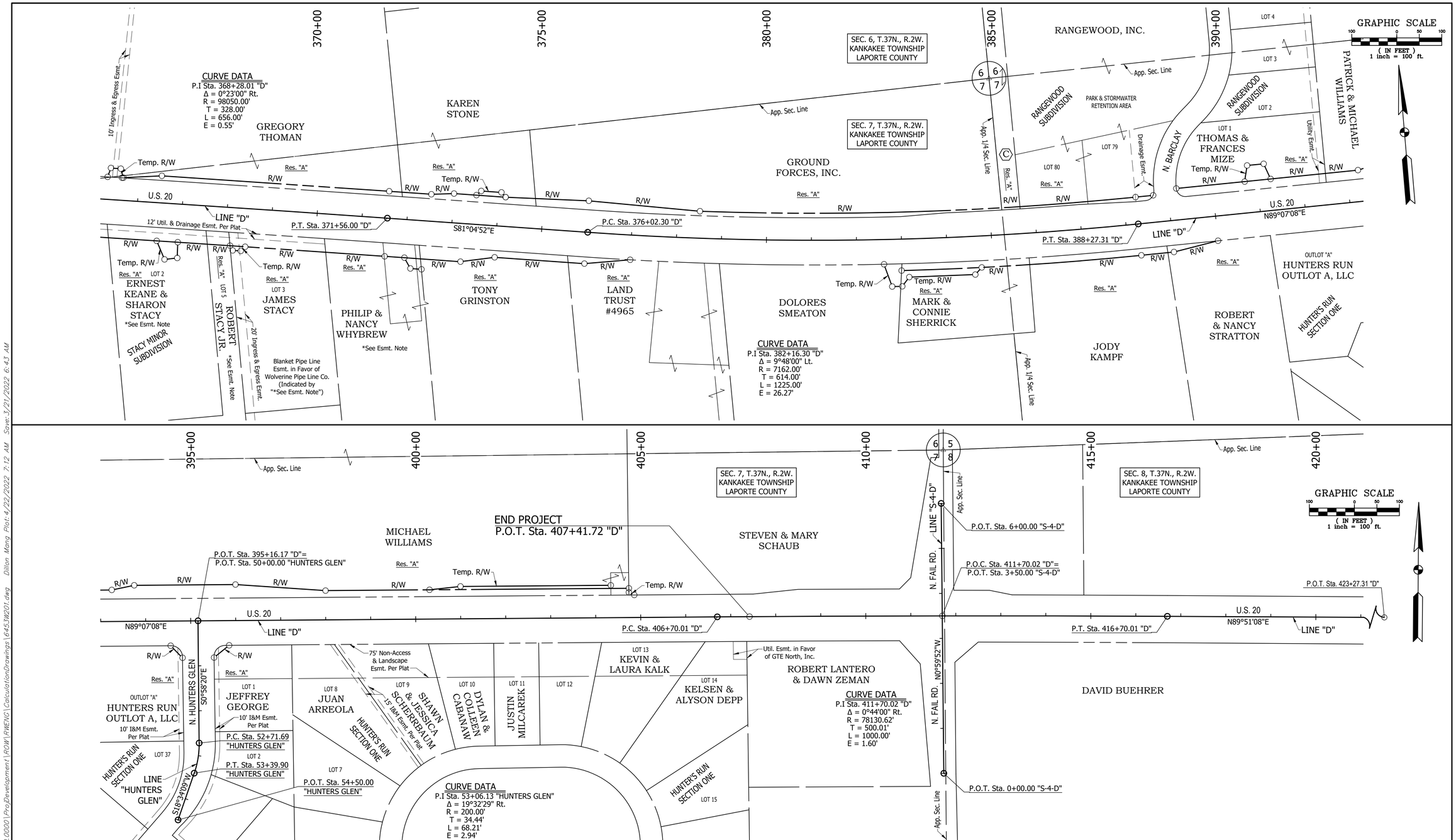


| INDEX LETTER | OWNER'S NAME |
|---|---|
| Ⓒ | KAREN C. ANDERTON, SOLE TRUSTEE OF THE KAREN C. ANDERTON TRUST |

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JCS DRAWN: CKH

CHECKED: JWG CHECKED: EKG

INDIANA DEPARTMENT OF TRANSPORTATION

PLAT NO. 1

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=100' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 09 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS

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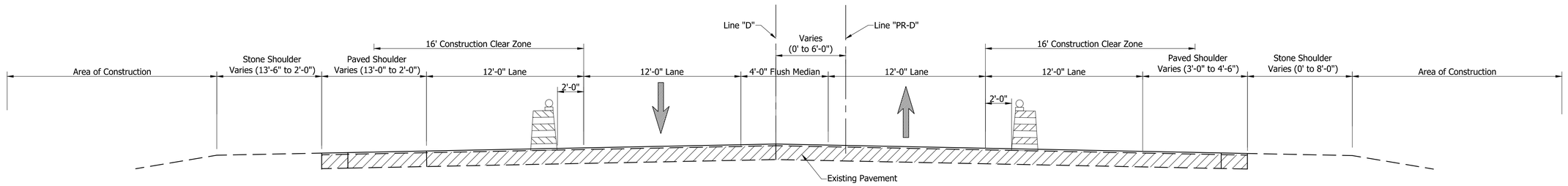
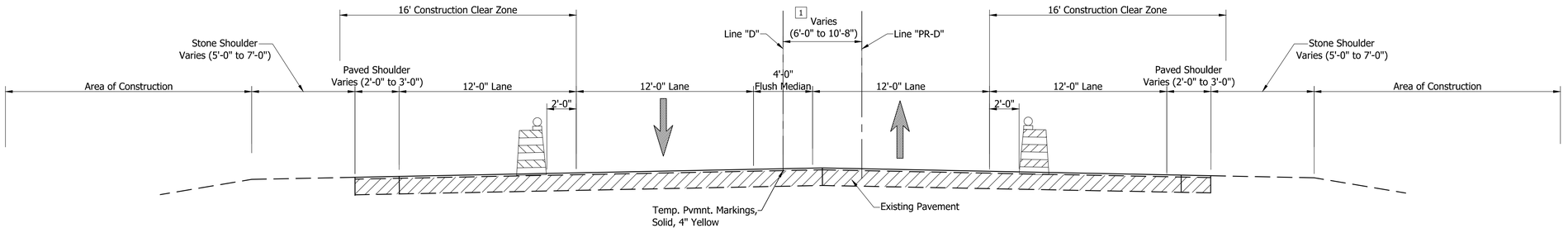



## TYPICAL CROSS SECTION M.O.T. PHASE 1

Scale: 1/4" = 1'-0'

Sta. 255+25.28 "D" to Sta. 264+00.00 "D"




## TYPICAL CROSS SECTION M.O.T. PHASE 1

Scale: 1/4" = 1'-0'

Sta. 264+00.00 "D" to Sta. 407+41.72 "D"

1 Varies 10'-8" to 0'
From Sta. 302+11.90 "D" to Sta. 317+34.40 "D"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JCS DRAWN: DRM

CHECKED: JWG CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
TYPICAL CROSS SECTIONS

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| As Shown | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 10 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

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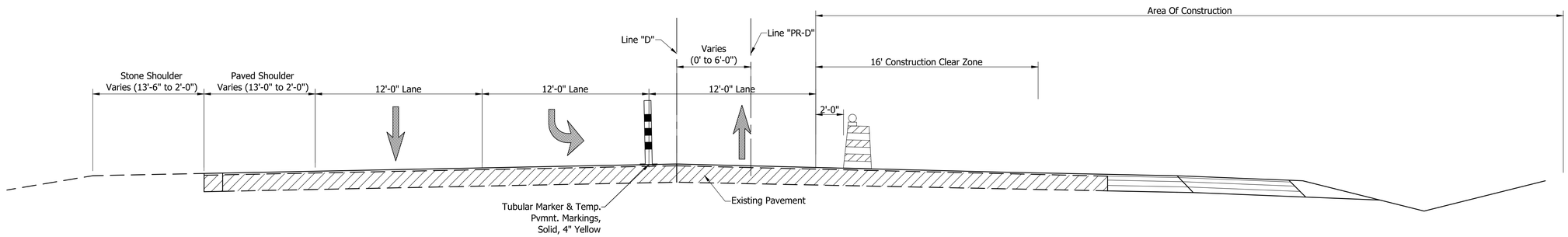
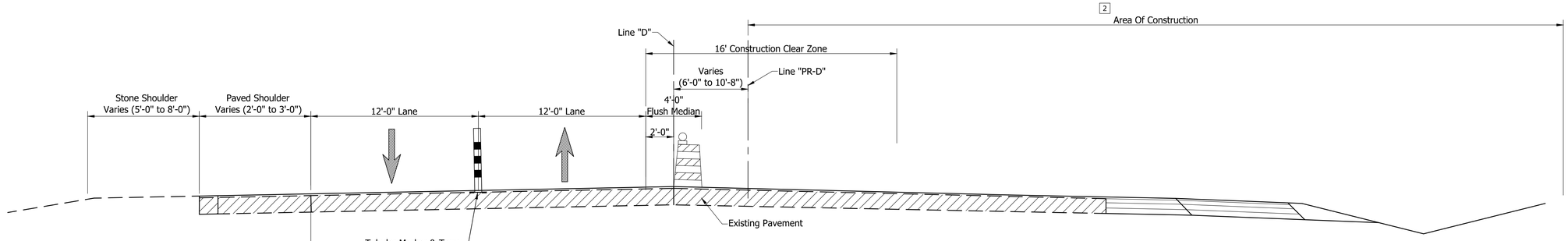
PRELIMINARY PLANS




## TYPICAL CROSS SECTION M.O.T. PHASE 2

Scale: 1/4" = 1'-0'

Sta. 255+25.28 "D" to Sta. 263+86.53 "D"



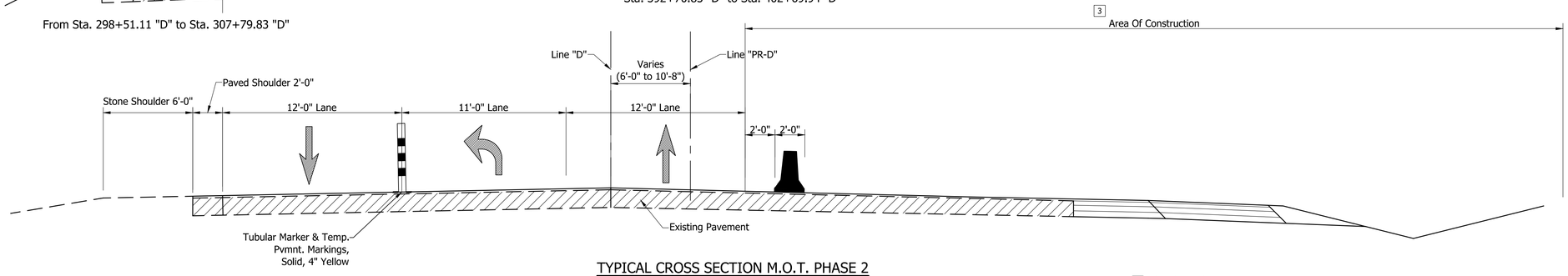

## TYPICAL CROSS SECTION M.O.T. PHASE 2

Scale: 1/4" = 1'-0'

From Sta. 298+51.11 "D" to Sta. 307+79.83 "D"

Sta. 263+86.53 "D" to Sta. 284+70.54 "D"
Sta. 304+77.34 "D" to Sta. 309+74.56 "D"
Sta. 320+36.23 "D" to Sta. 353+16.97 "D"
Sta. 363+76.36 "D" to Sta. 383+62.95 "D"
Sta. 392+70.83 "D" to Sta. 402+69.94 "D"

2 See Superelevation Diagram:
From Sta. 301+57.75 "D" to Sta. 315+64.16 "D"
From Sta. 376+02.30 "D" to Sta. 388+27.31 "D"




## TYPICAL CROSS SECTION M.O.T. PHASE 2

Scale: 1/4" = 1'-0'

Sta. 284+70.54 "D" to Sta. 289+96.93 "D"
Sta. 291+40.45 "D" to Sta. 292+64.26 "D"
Sta. 309+74.56 "D" to Sta. 315+05.76 "D"
Sta. 353+16.97 "D" to Sta. 358+46.83 "D"

3 See Superelevation Diagram:
From Sta. 301+57.75 "D" to Sta. 315+64.16 "D"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JCS DRAWN: DRM

CHECKED: JWG CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
TYPICAL CROSS SECTIONS

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| As Shown | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 11 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

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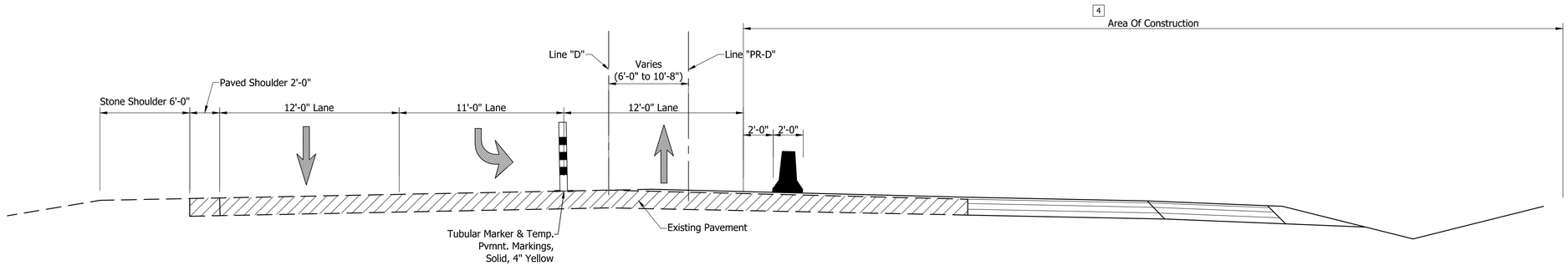
PRELIMINARY PLANS

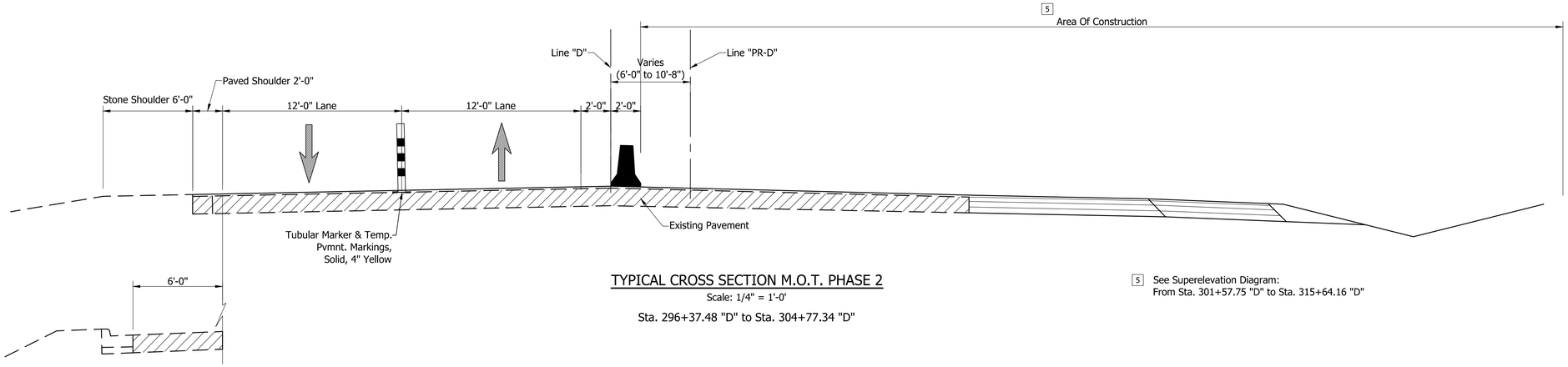



TYPICAL CROSS SECTION M.O.T. PHASE 2

Scale: 1/4" = 1'-0'

Sta. 289+96.93 "D" to Sta. 291+40.45 "D"
Sta. 315+05.76 "D" to Sta. 320+36.23 "D"
Sta. 358+46.83 "D" to Sta. 363+76.36 "D"

4 See Superelevation Diagram:
From Sta. 301+57.75 "D" to Sta. 315+64.16 "D"



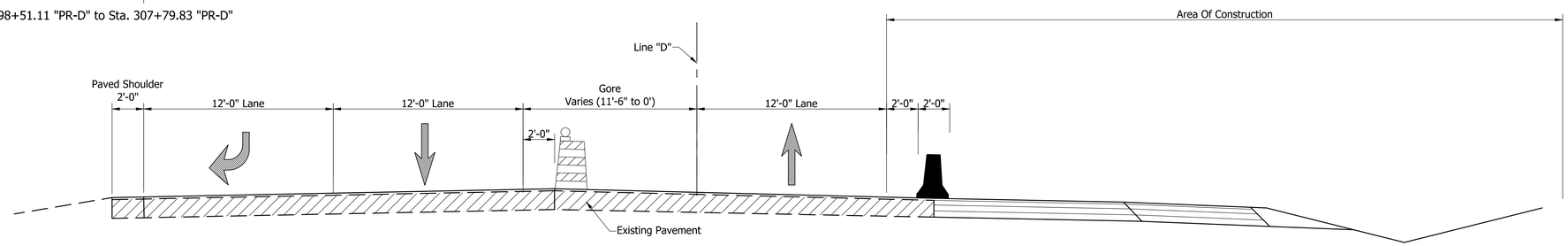

TYPICAL CROSS SECTION M.O.T. PHASE 2

Scale: 1/4" = 1'-0'

Sta. 296+37.48 "D" to Sta. 304+77.34 "D"

From Sta. 298+51.11 "PR-D" to Sta. 307+79.83 "PR-D"

5 See Superelevation Diagram:
From Sta. 301+57.75 "D" to Sta. 315+64.16 "D"




TYPICAL CROSS SECTION M.O.T. PHASE 2

Scale: 1/4" = 1'-0'

Sta. 388+93.26 "D" to Sta. 392+70.83 "D"

| | | | |
|---|---|---|---|
| | RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE | INDIANA DEPARTMENT OF TRANSPORTATION | HORIZONTAL SCALE: As Shown; BRIDGE FILE: |
| | | | VERTICAL SCALE: N/A; DESIGNATION: 1702993 |
| | DESIGNED: JCS; DRAWN: DRM | MAINTENANCE OF TRAFFIC TYPICAL CROSS SECTIONS | SURVEY BOOK: ; SHEET: 12 OF 283 |
| | CHECKED: JWG; CHECKED: JWG | | CONTRACT: R-41437; PROJECT: 1702993 |

BFS NO. 6453.0000

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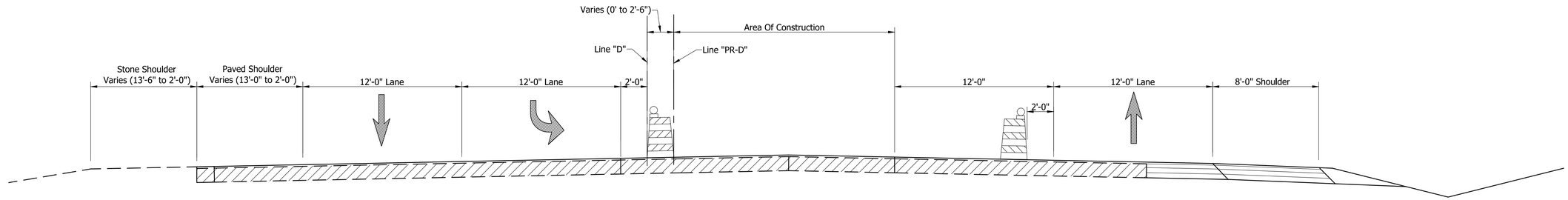
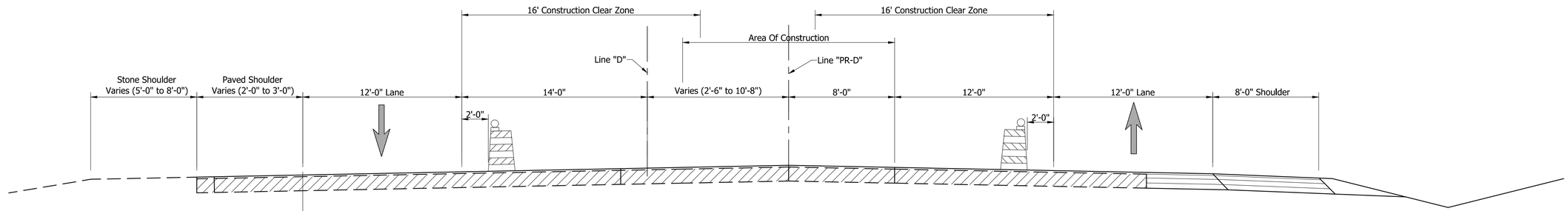
PRELIMINARY PLANS




TYPICAL CROSS SECTION M.O.T. PHASE 3

Scale: 1/4" = 1'-0'

Sta. 255+25.28 "D" to Sta. 259+98.56 "D"

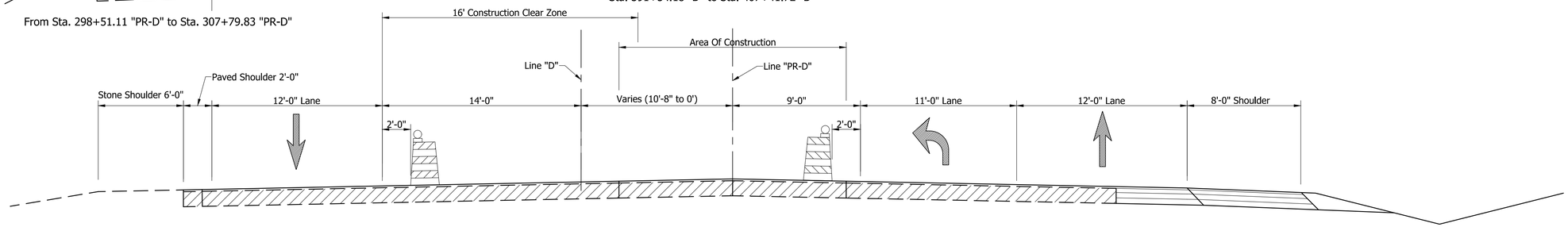



From Sta. 298+51.11 "PR-D" to Sta. 307+79.83 "PR-D"

TYPICAL CROSS SECTION M.O.T. PHASE 3

Scale: 1/4" = 1'-0'

Sta. 259+98.56 "D" to Sta. 288+00.60 "D"
Sta. 292+70.08 "D" to Sta. 313+04.91 "D"
Sta. 317+08.58 "D" to Sta. 356+46.84 "D"
Sta. 360+46.83 "D" to Sta. 386+91.60 "D"
Sta. 391+54.18 "D" to Sta. 407+41.72 "D"




TYPICAL CROSS SECTION M.O.T. PHASE 3

Scale: 1/4" = 1'-0'

Sta. 288+00.60 "D" to Sta. 289+96.93 "D"
Sta. 291+46.31 "D" to Sta. 292+70.08 "D"
Sta. 313+04.91 "D" to Sta. 315+05.76 "D"
Sta. 356+46.84 "D" to Sta. 358+46.83 "D"
Sta. 386+91.60 "D" to Sta. 388+93.26 "D"

| | | | | |
|---|---|---|---|---|
| | RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE | | INDIANA DEPARTMENT OF TRANSPORTATION | HORIZONTAL SCALE: As Shown; BRIDGE FILE: |
| | DESIGNED: JCS | DRAWN: DRM | MAINTENANCE OF TRAFFIC TYPICAL CROSS SECTIONS | VERTICAL SCALE: N/A; DESIGNATION: 1702993 |
| | CHECKED: JWG | CHECKED: JWG | | SURVEY BOOK: ; SHEET: 13 OF 283 |
| | | | | CONTRACT: R-41437; PROJECT: 1702993 |

BFS NO. 6453.0000

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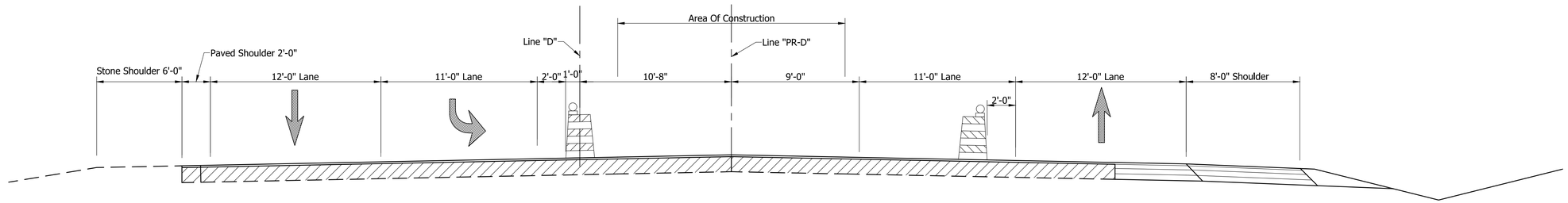
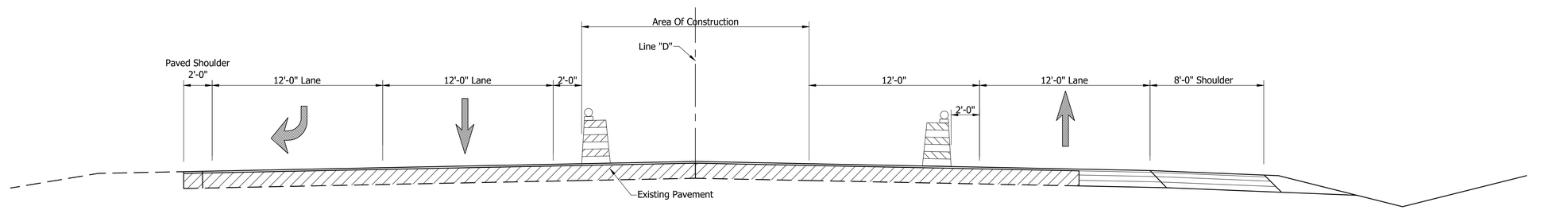
PRELIMINARY PLANS




TYPICAL CROSS SECTION M.O.T. PHASE 3

Scale: 1/4" = 1'-0'

Sta. 289+96.93 "D" to Sta. 291+46.31 "D"
Sta. 315+05.76 "D" to Sta. 317+08.58 "D"
Sta. 358+46.83 "D" to Sta. 360+46.83 "D"




TYPICAL CROSS SECTION M.O.T. PHASE 3

Scale: 1/4" = 1'-0'

Sta. 388+93.26 "D" to Sta. 391+54.18 "D"

| | | | |
|---|---|---|---|
| | RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE | INDIANA DEPARTMENT OF TRANSPORTATION | HORIZONTAL SCALE: As Shown; BRIDGE FILE: |
| | DESIGNED: JWG; DRAWN: DRM; CHECKED: JCS; CHECKED: JWG | MAINTENANCE OF TRAFFIC TYPICAL CROSS SECTIONS | VERTICAL SCALE: N/A; DESIGNATION: 1702993; SURVEY BOOK: ; SHEET: 14 OF 283; CONTRACT: R-41437; PROJECT: 1702993; BPS NO. 6453.0000 |

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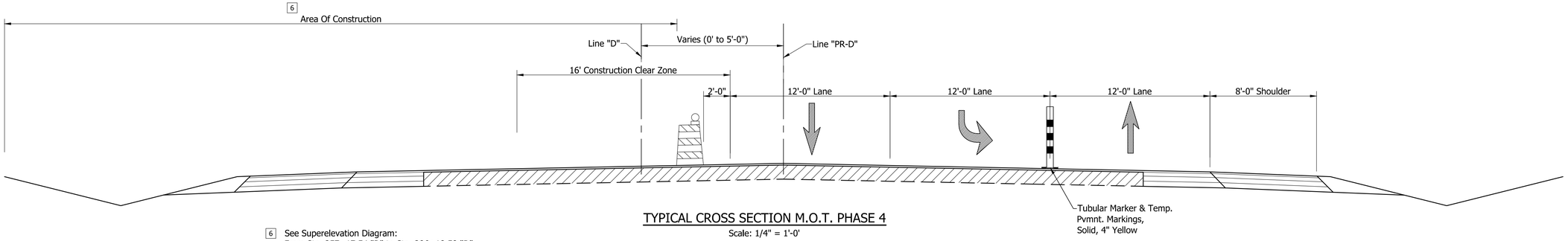
PRELIMINARY PLANS

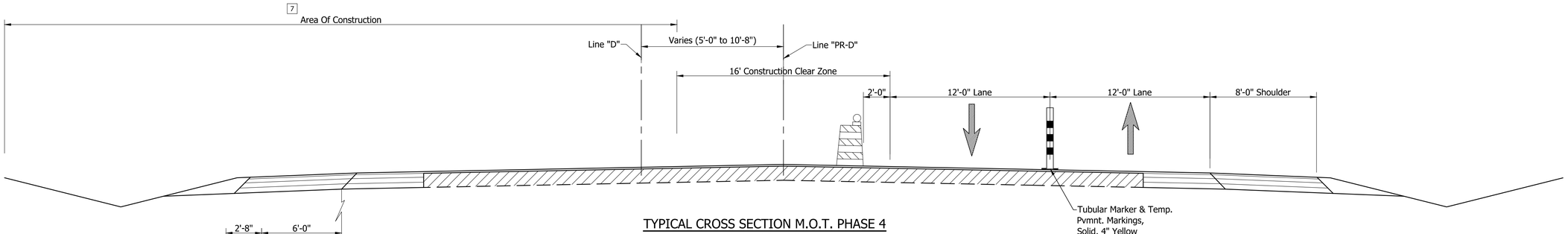


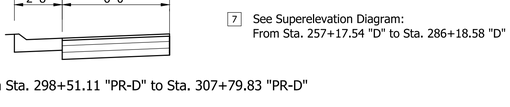

6 See Superelevation Diagram:
From Sta. 257+17.54 "D" to Sta. 286+18.58 "D"

## TYPICAL CROSS SECTION M.O.T. PHASE 4

Scale: 1/4" = 1'-0'

Sta. 255+25.28 "D" to Sta. 262+76.33 "D"



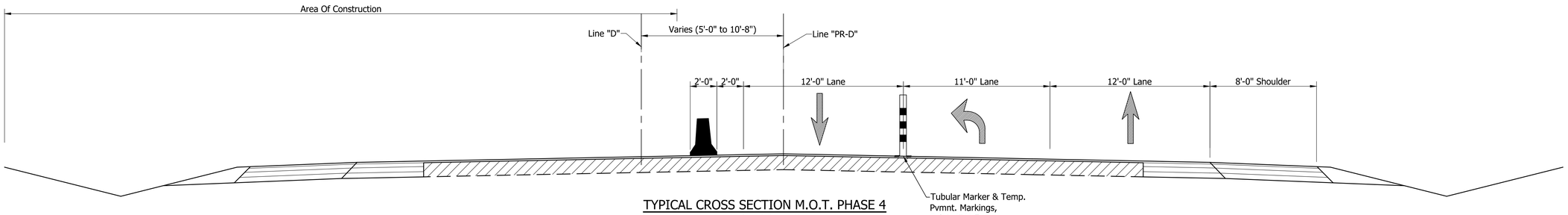

7 See Superelevation Diagram:
From Sta. 257+17.54 "D" to Sta. 286+18.58 "D"

From Sta. 298+51.11 "PR-D" to Sta. 307+79.83 "PR-D"

## TYPICAL CROSS SECTION M.O.T. PHASE 4

Scale: 1/4" = 1'-0'

Sta. 262+76.33 "D" to Sta. 284+67.95 "D"
Sta. 320+33.00 "D" to Sta. 353+23.44 "D"
Sta. 363+83.44 "D" to Sta. 383+66.69 "D"
Sta. 392+76.12 "D" to Sta. 403+99.68 "D"




## TYPICAL CROSS SECTION M.O.T. PHASE 4

Scale: 1/4" = 1'-0'

Sta. 284+67.95 "D" to Sta. 289+94.54 "D"
Sta. 309+73.25 "D" to Sta. 315+02.19 "D"
Sta. 353+23.44 "D" to Sta. 358+50.64 "D"
Sta. 383+66.69 "D" to Sta. 388+96.19 "D"

| | | | |
|---|---|---|---|
| | RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE | INDIANA DEPARTMENT OF TRANSPORTATION | HORIZONTAL SCALE: As Shown; BRIDGE FILE: ; VERTICAL SCALE: N/A; DESIGNATION: 1702993; SURVEY BOOK: ; SHEET: 15 OF 283; CONTRACT: R-41437; PROJECT: 1702993 |
| | DESIGNED: JWG DRAWN: DRM CHECKED: JCS CHECKED: JWG | MAINTENANCE OF TRAFFIC TYPICAL CROSS SECTIONS | BFS NO. 6453.0000 |

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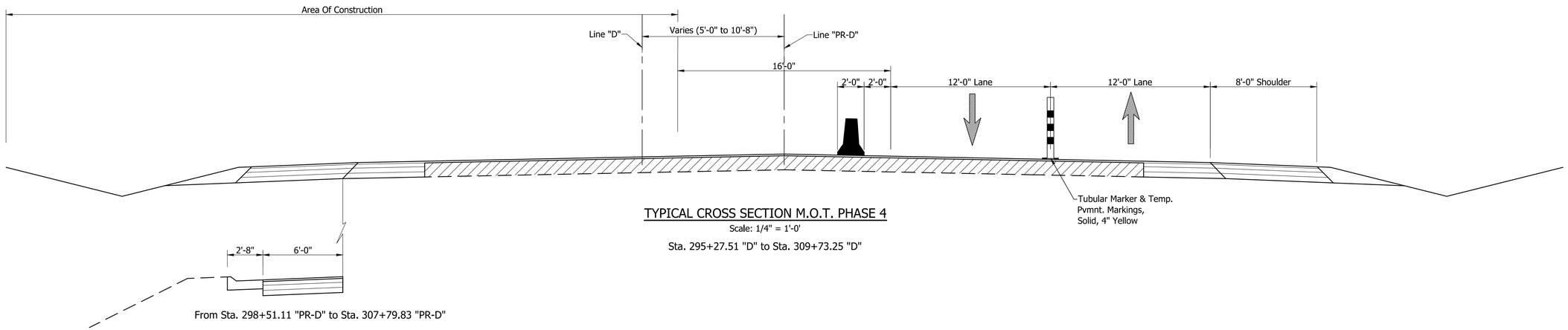
PRELIMINARY PLANS

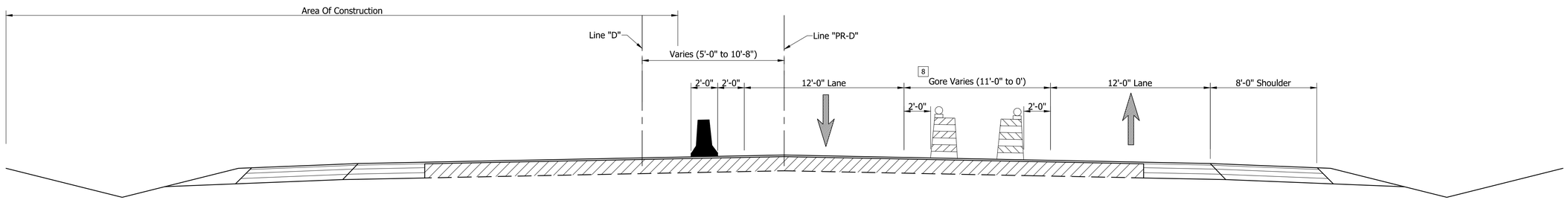



From Sta. 298+51.11 "PR-D" to Sta. 307+79.83 "PR-D"

## TYPICAL CROSS SECTION M.O.T. PHASE 4

Scale: 1/4" = 1'-0'

Sta. 295+27.51 "D" to Sta. 309+73.25 "D"




## TYPICAL CROSS SECTION M.O.T. PHASE 4

Scale: 1/4" = 1'-0'

Sta. 388+96.19 "D" to Sta. 392+76.12 "D"
Sta. 403+99.68 "D" to Sta. 407+41.72 "D"

8 Gore Area Varies (0' to 12'-0")
From Sta. 403+99.68 "D" to Sta. 407+41.72 "D"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JWG | DRAWN: DRM

CHECKED: JCS | CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
TYPICAL CROSS SECTIONS

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| As Shown | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 16 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BPS NO. 6453.0000

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PRELIMINARY PLANS

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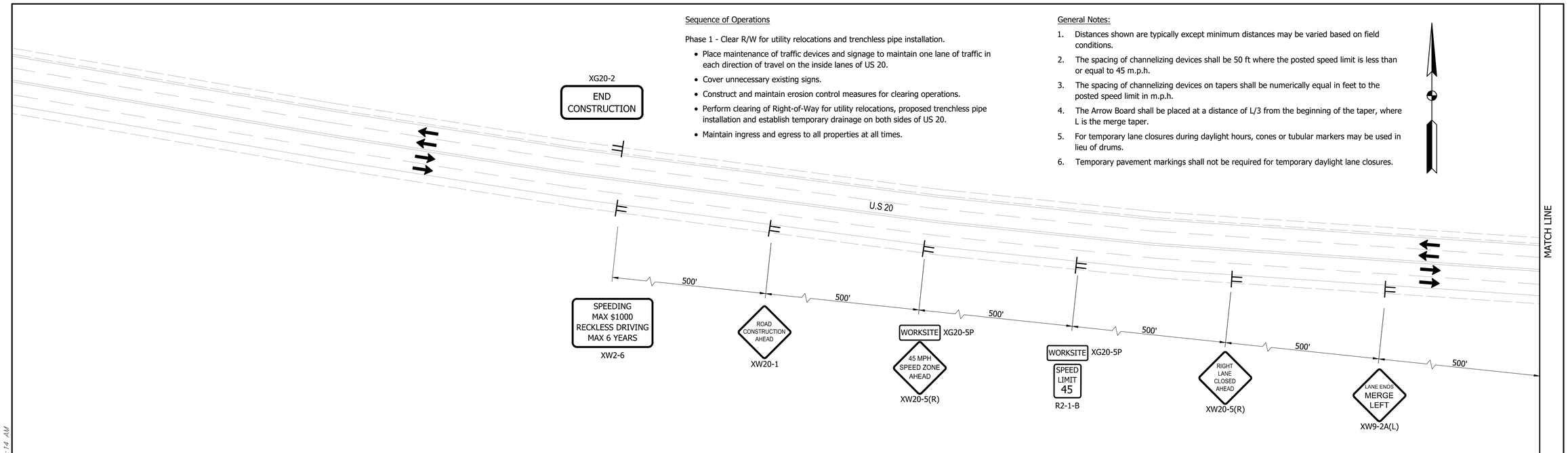


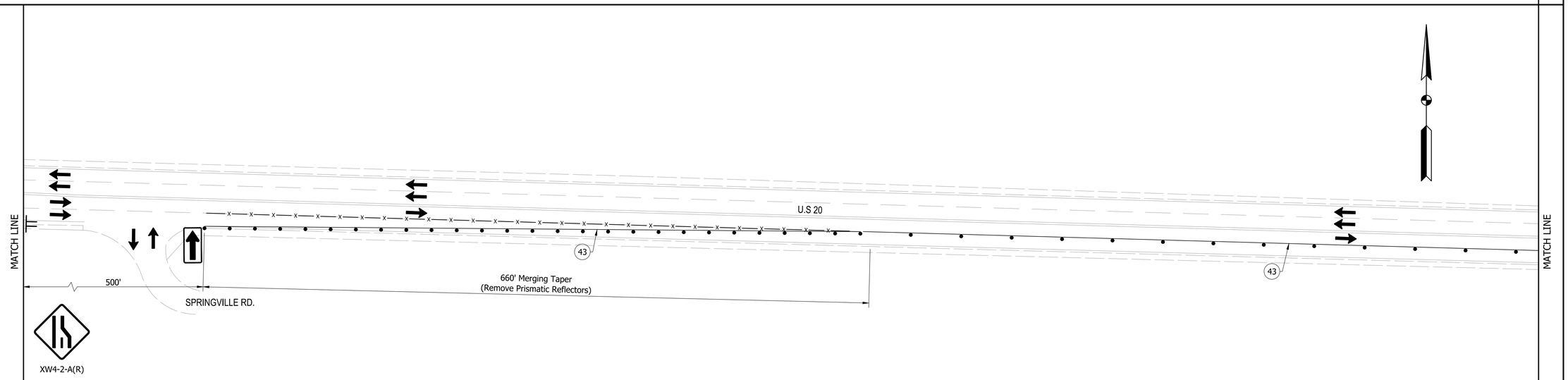

Sequence of Operations

Phase 1 - Clear R/W for utility relocations and trenchless pipe installation.

- Place maintenance of traffic devices and signage to maintain one lane of traffic in each direction of travel on the inside lanes of US 20.
- Cover unnecessary existing signs.
- Construct and maintain erosion control measures for clearing operations.
- Perform clearing of Right-of-Way for utility relocations, proposed trenchless pipe installation and establish temporary drainage on both sides of US 20.
- Maintain ingress and egress to all properties at all times.

General Notes:

1. Distances shown are typically except minimum distances may be varied based on field conditions.
2. The spacing of channelizing devices shall be 50 ft where the posted speed limit is less than or equal to 45 m.p.h.
3. The spacing of channelizing devices on tapers shall be numerically equal in feet to the posted speed limit in m.p.h.
4. The Arrow Board shall be placed at a distance of L/3 from the beginning of the taper, where L is the merge taper.
5. For temporary lane closures during daylight hours, cones or tubular markers may be used in lieu of drums.
6. Temporary pavement markings shall not be required for temporary daylight lane closures.




LEGEND

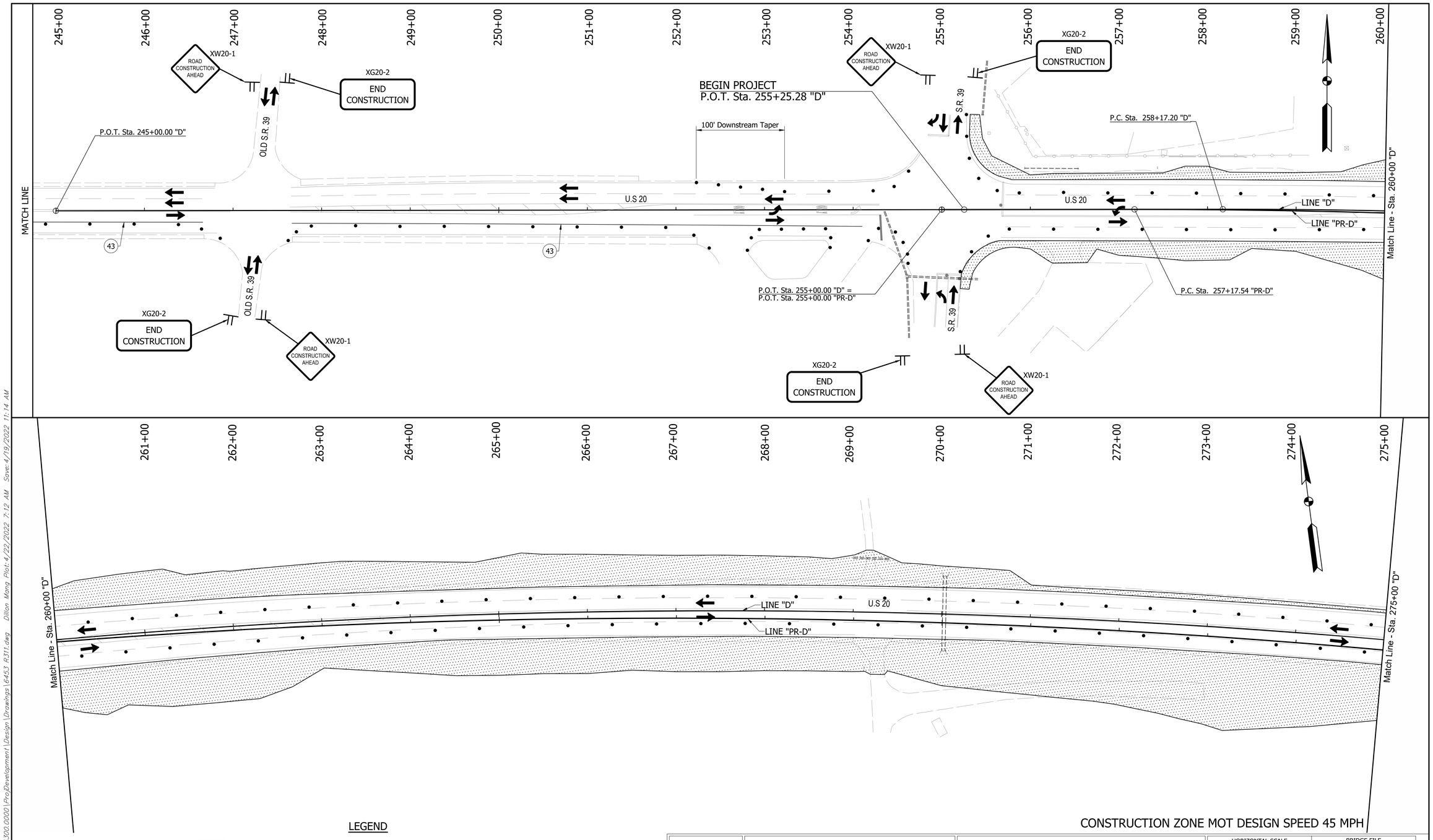
- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TRAFFIC SIGNS
- ARROW BOARD
- PAVEMENT MARKING REMOVAL
- (43) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 6"

CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

| | | | |
|---|---|---|---|
| RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE | | INDIANA DEPARTMENT OF TRANSPORTATION | HORIZONTAL SCALE 1"=50' / BRIDGE FILE |
| DESIGNED: JWG | DRAWN: DRM | MAINTENANCE OF TRAFFIC PHASE 1 | VERTICAL SCALE N/A / DESIGNATION 1702993 |
| CHECKED: JCS | CHECKED: JWG | | SURVEY BOOK / SHEET 17 OF 283 |
| | | | CONTRACT R-41437 / PROJECT 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS




LEGEND

- AREA OF CONSTRUCTION
- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TRAFFIC SIGNS
- (43) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 6"

CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JWG | DRAWN: DRM

CHECKED: JCS | CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE 1

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 18 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS

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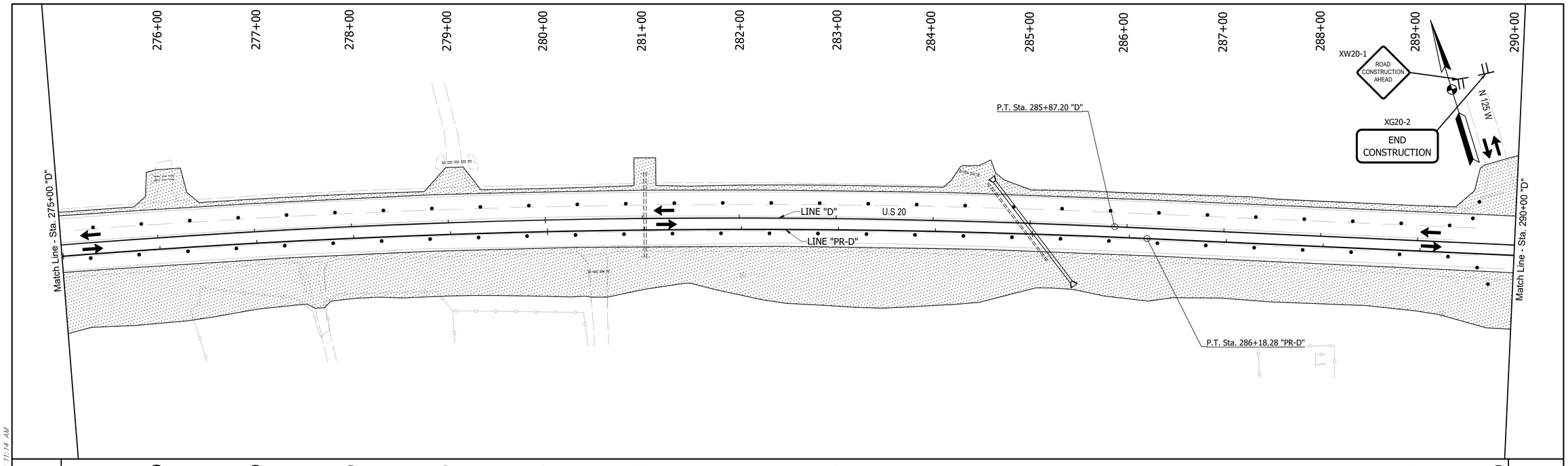


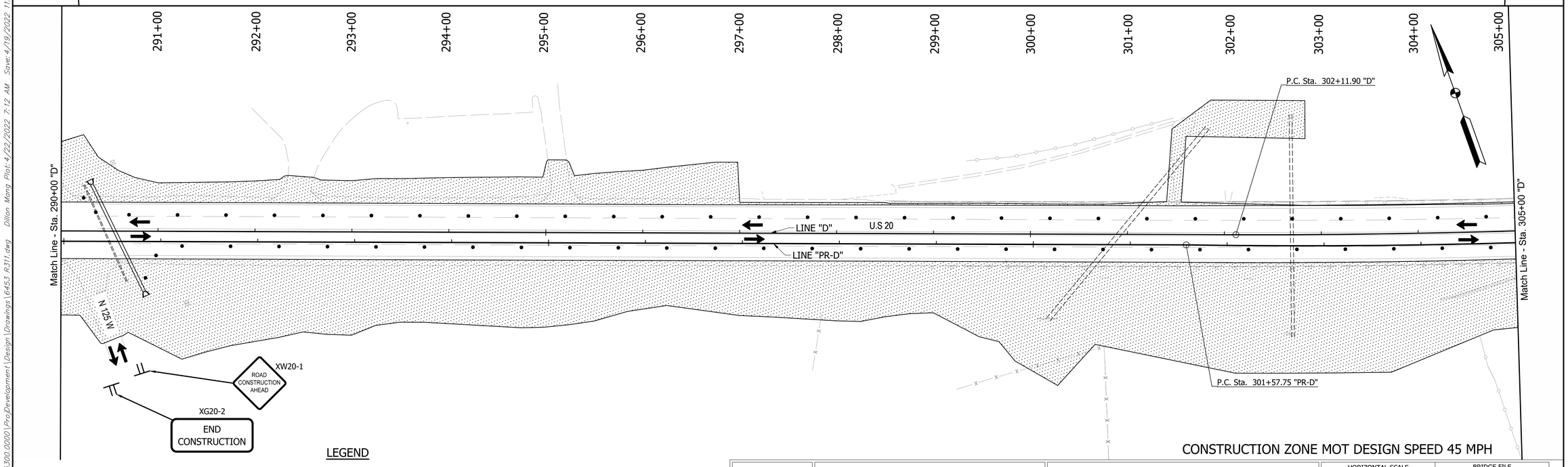


LEGEND

- AREA OF CONSTRUCTION
- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TRAFFIC SIGNS

CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JWG DRAWN: DRM

CHECKED: JCS CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE 1

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 19 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

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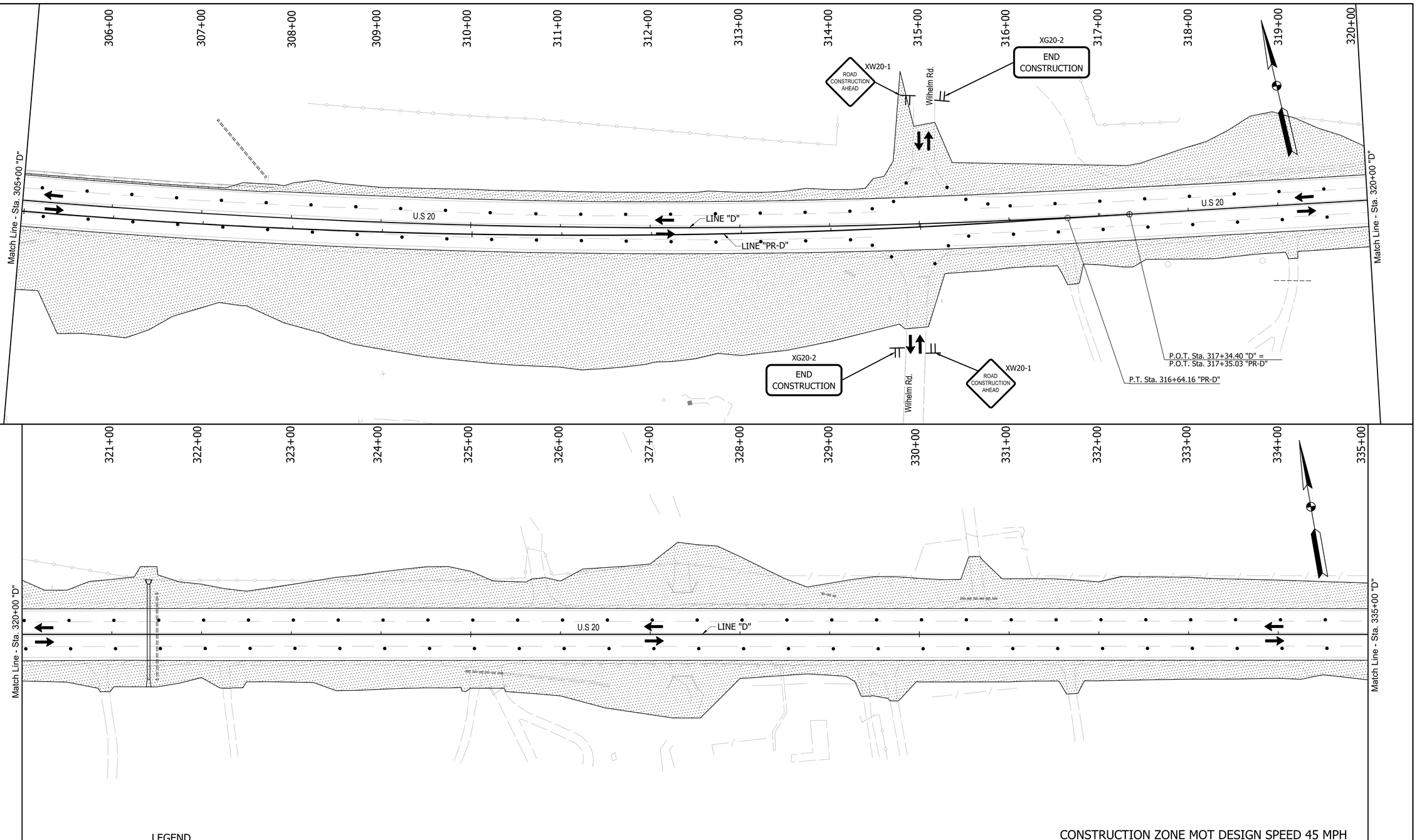
PRELIMINARY PLANS




LEGEND

- AREA OF CONSTRUCTION
- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TRAFFIC SIGNS

CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

| | | | |
|---|---|---|---|
| RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE | | INDIANA DEPARTMENT OF TRANSPORTATION | HORIZONTAL SCALE: 1"=50' / BRIDGE FILE: |
| | | | VERTICAL SCALE: N/A / DESIGNATION: 1702993 |
| DESIGNED: JWG | DRAWN: DRM | MAINTENANCE OF TRAFFIC PHASE 1 | SURVEY BOOK: / SHEET: 20 OF 283 |
| CHECKED: JCS | CHECKED: JWG | | CONTRACT: R-41437 / PROJECT: 1702993 |

BRS NO. 6453.0000

PRELIMINARY PLANS

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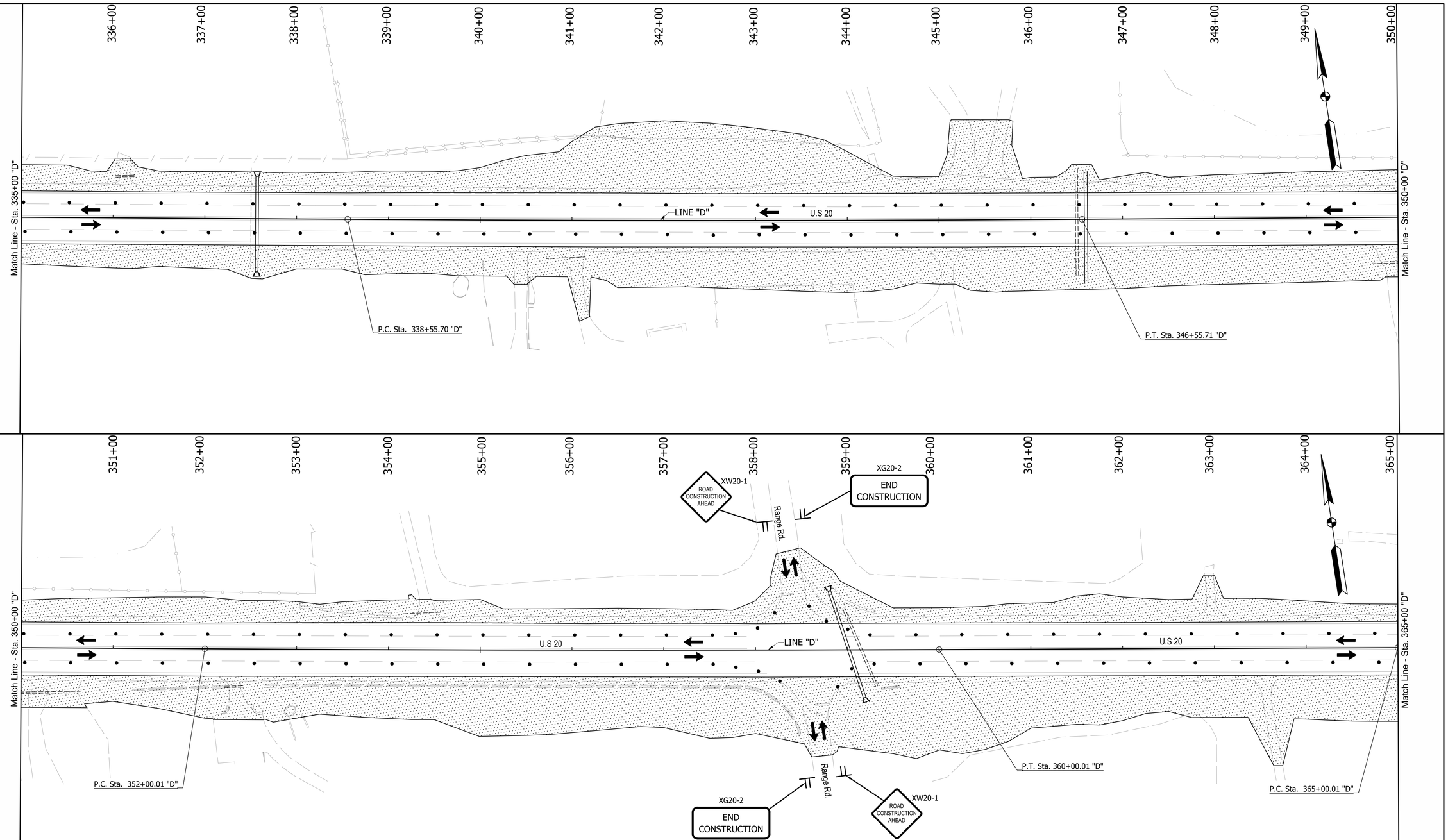


LEGEND

- AREA OF CONSTRUCTION
- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TRAFFIC SIGNS

CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

| | | | |
|---|---|---|---|
| RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE | | INDIANA DEPARTMENT OF TRANSPORTATION | HORIZONTAL SCALE 1"=50' / BRIDGE FILE |
| | | | VERTICAL SCALE N/A / DESIGNATION 1702993 |
| DESIGNED: JWG | DRAWN: DRM | MAINTENANCE OF TRAFFIC PHASE 1 | SURVEY BOOK / SHEET 21 OF 283 |
| CHECKED: JCS | CHECKED: JWG | | CONTRACT R-41437 / PROJECT 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS

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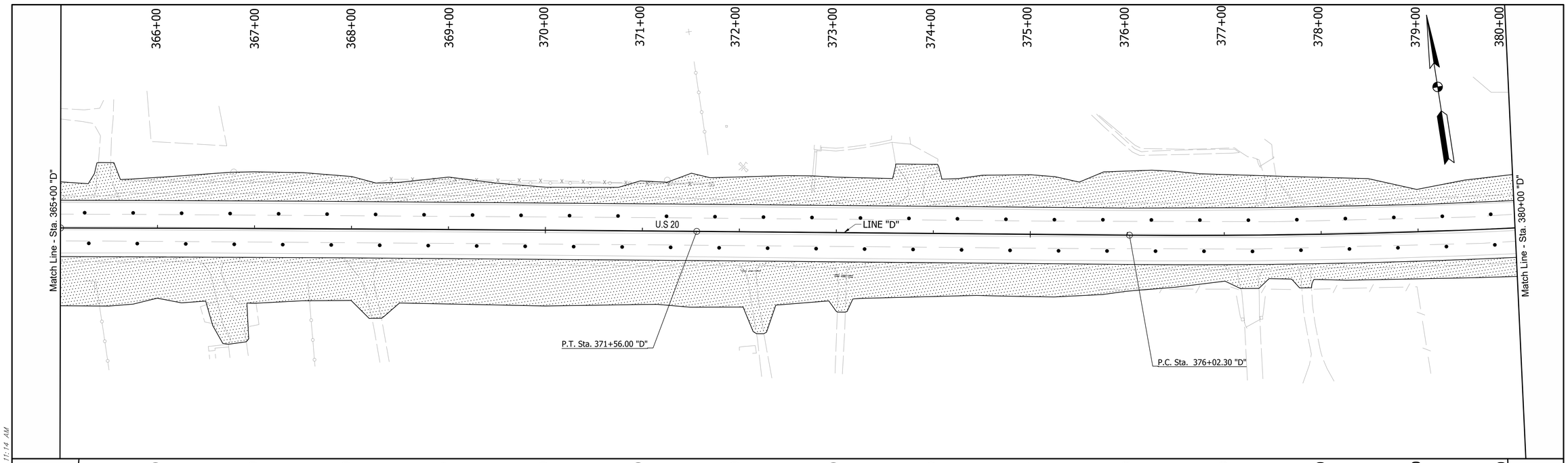


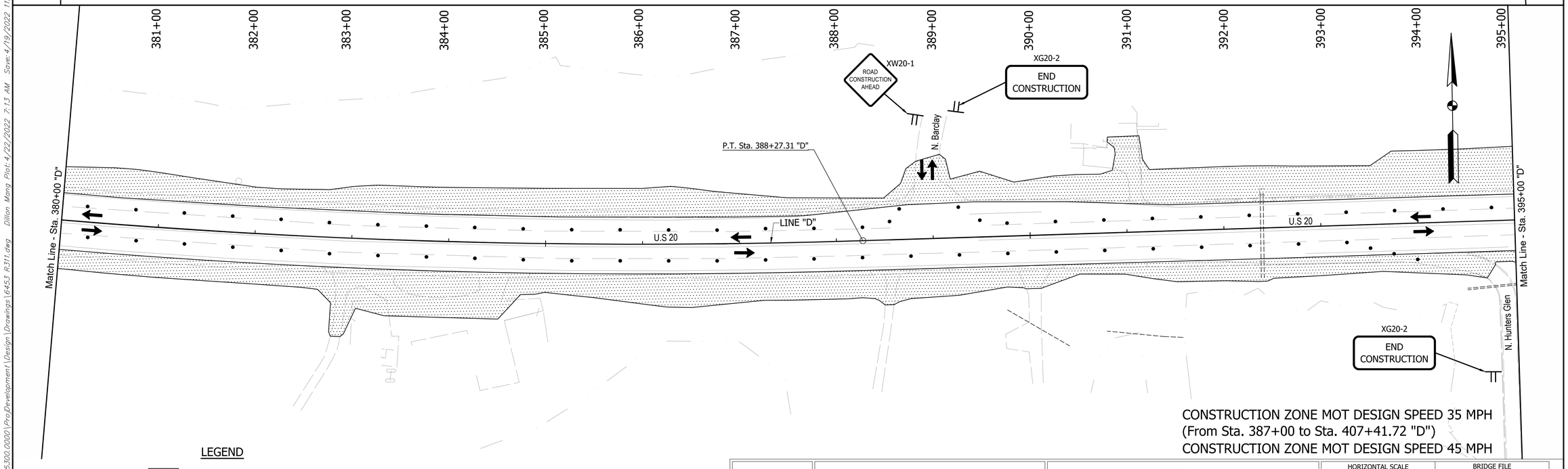


CONSTRUCTION ZONE MOT DESIGN SPEED 35 MPH
(From Sta. 387+00 to Sta. 407+41.72 "D")
CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

LEGEND

- AREA OF CONSTRUCTION
- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TRAFFIC SIGNS

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JWG | DRAWN: DRM

CHECKED: JCS | CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE 1

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 22 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

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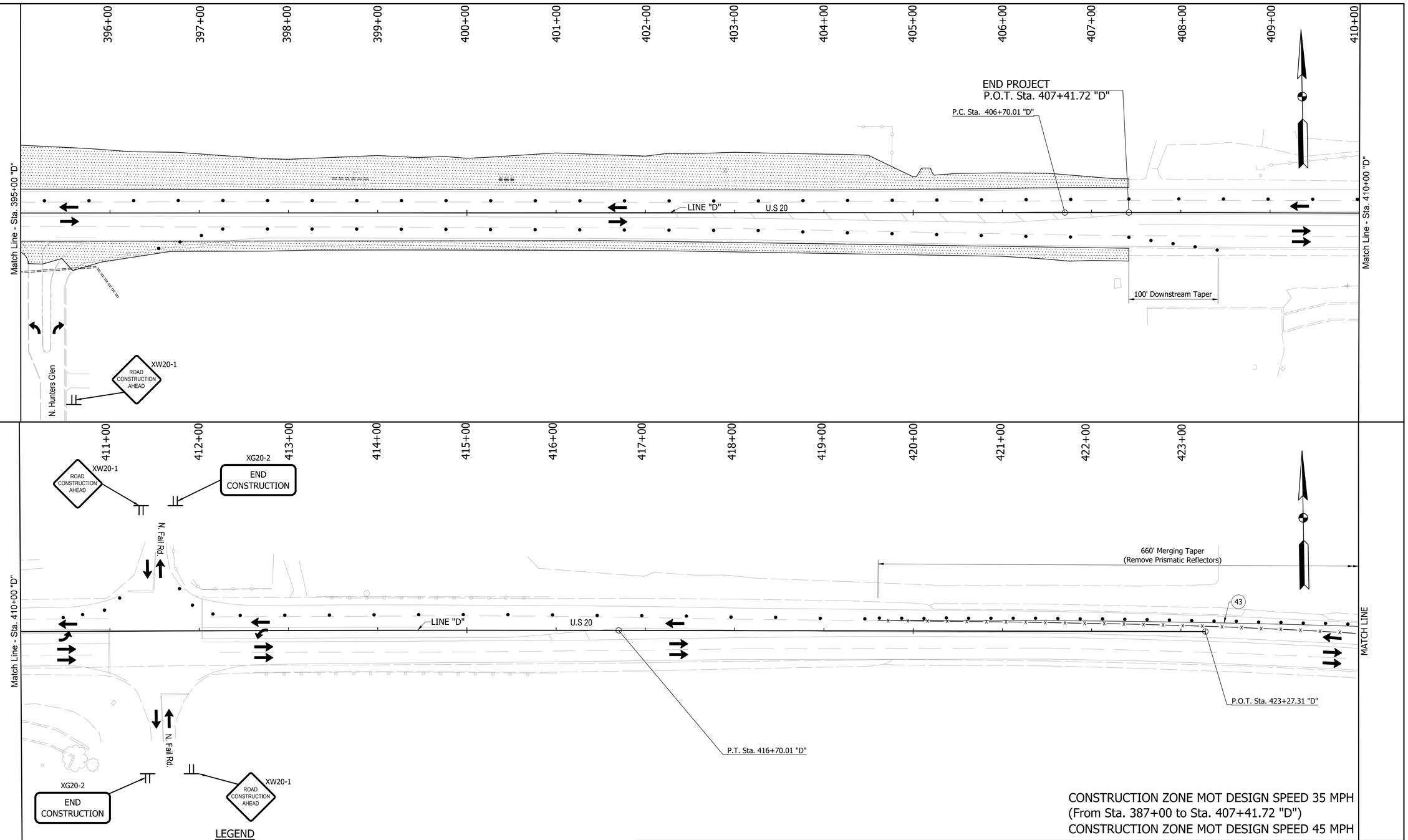
PRELIMINARY PLANS




RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JWG DRAWN: DRM

CHECKED: JCS CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE 1

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 23 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS

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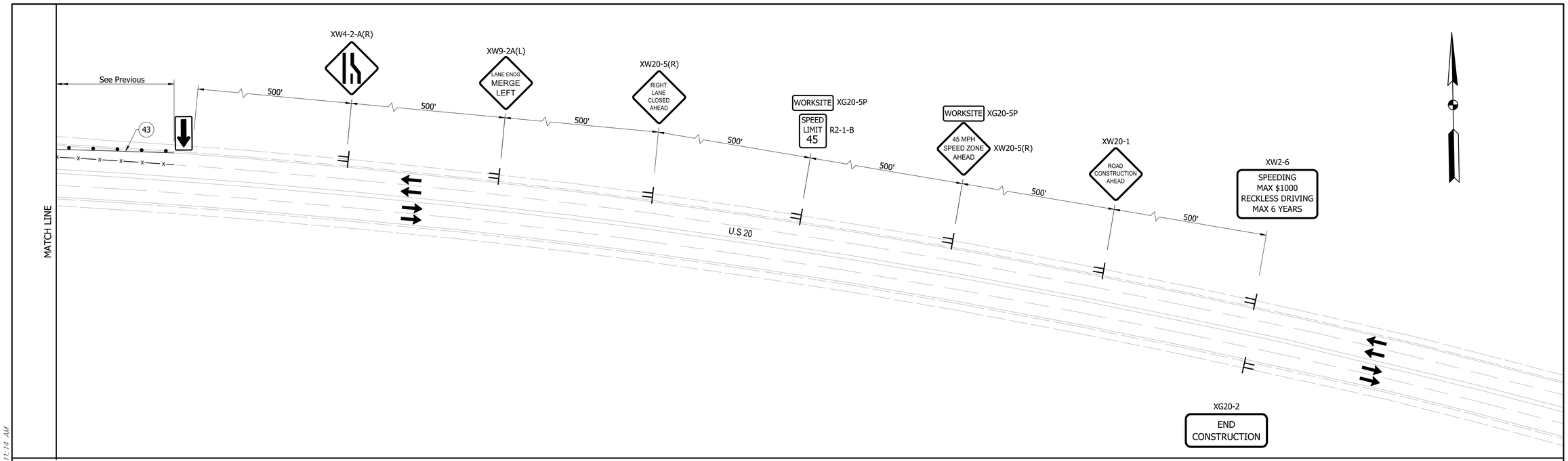


LEGEND

- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TRAFFIC SIGNS
- ARROW BOARD
- PAVEMENT MARKING REMOVAL
- (43) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 6"

CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JWG DRAWN: DRM

CHECKED: JCS CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE 1

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| NA | 1702993 |
| SURVEY BOOK | SHEET |
| | 24 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BPS NO. 6453.0000

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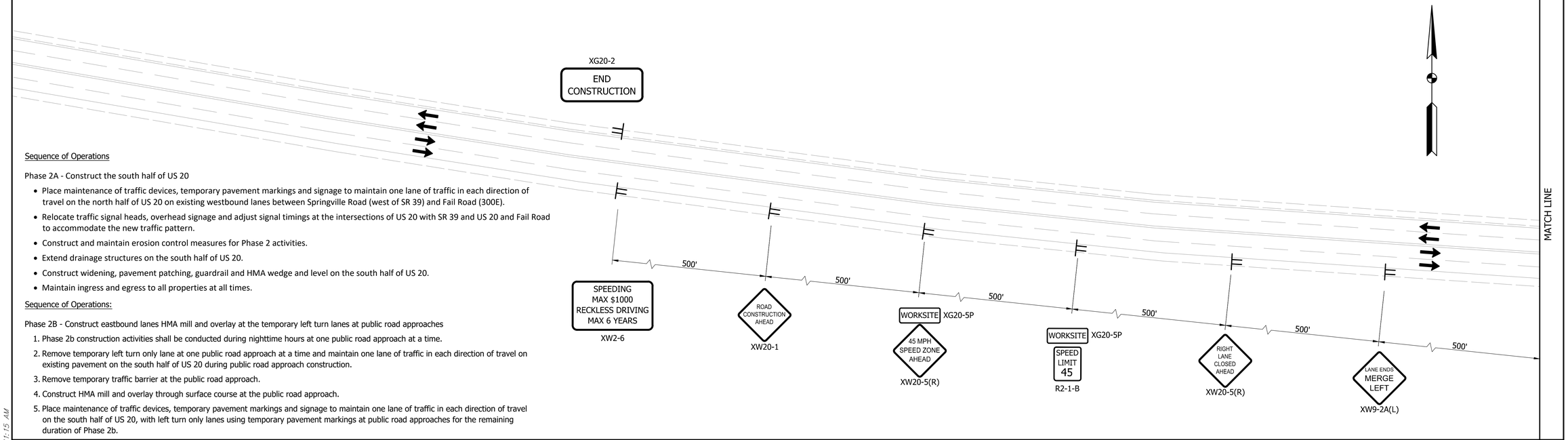
PRELIMINARY PLANS




Sequence of Operations

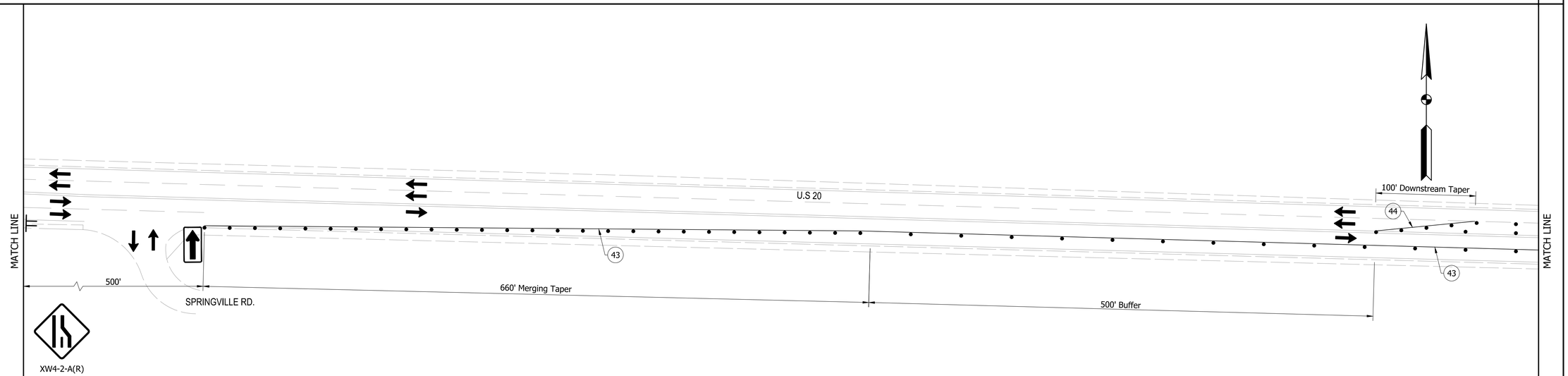
Phase 2A - Construct the south half of US 20

- Place maintenance of traffic devices, temporary pavement markings and signage to maintain one lane of traffic in each direction of travel on the north half of US 20 on existing westbound lanes between Springville Road (west of SR 39) and Fail Road (300E).
- Relocate traffic signal heads, overhead signage and adjust signal timings at the intersections of US 20 with SR 39 and US 20 and Fail Road to accommodate the new traffic pattern.
- Construct and maintain erosion control measures for Phase 2 activities.
- Extend drainage structures on the south half of US 20.
- Construct widening, pavement patching, guardrail and HMA wedge and level on the south half of US 20.
- Maintain ingress and egress to all properties at all times.

Sequence of Operations:

Phase 2B - Construct eastbound lanes HMA mill and overlay at the temporary left turn lanes at public road approaches

1. Phase 2b construction activities shall be conducted during nighttime hours at one public road approach at a time.
2. Remove temporary left turn only lane at one public road approach at a time and maintain one lane of traffic in each direction of travel on existing pavement on the south half of US 20 during public road approach construction.
3. Remove temporary traffic barrier at the public road approach.
4. Construct HMA mill and overlay through surface course at the public road approach.
5. Place maintenance of traffic devices, temporary pavement markings and signage to maintain one lane of traffic in each direction of travel on the south half of US 20, with left turn only lanes using temporary pavement markings at public road approaches for the remaining duration of Phase 2b.




LEGEND

- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TRAFFIC SIGNS
- ARROW BOARD
- (43) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 6"
- (44) TEMP. PAVEMENT MARKING, REMOVABLE SOLID YELLOW, 6"

CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JWG DRAWN: DRM

CHECKED: JCS CHECKED: JWG

INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PHASE 2A

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 25 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS

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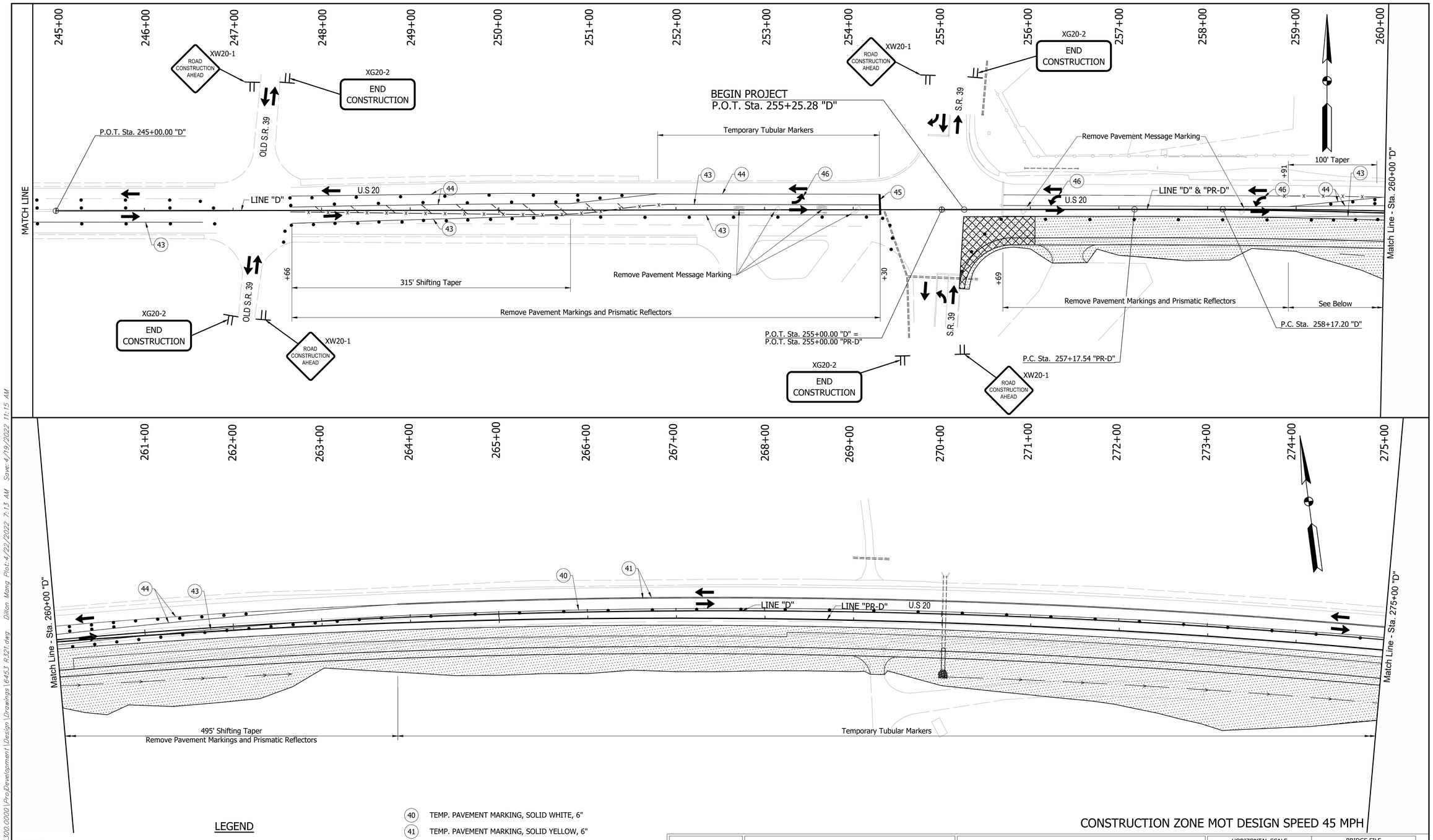


## LEGEND

- AREA OF CONSTRUCTION UNDER FLAGGING OPERATIONS
- AREA OF CONSTRUCTION
- TRAFFIC FLOW
- CHANNELIZING DEVICE
- PAVEMENT MARKING REMOVAL
- TRAFFIC SIGNS

(40) TEMP. PAVEMENT MARKING, SOLID WHITE, 6"
(41) TEMP. PAVEMENT MARKING, SOLID YELLOW, 6"
(43) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 6"
(44) TEMP. PAVEMENT MARKING, REMOVABLE SOLID YELLOW, 6"
(45) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 24"
(46) TEMP. PAVEMENT MARKING, REMOVABLE, LANE INDICATION ARROW

CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JWG DRAWN: DRM

CHECKED: JCS CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE 2A

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 26 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS

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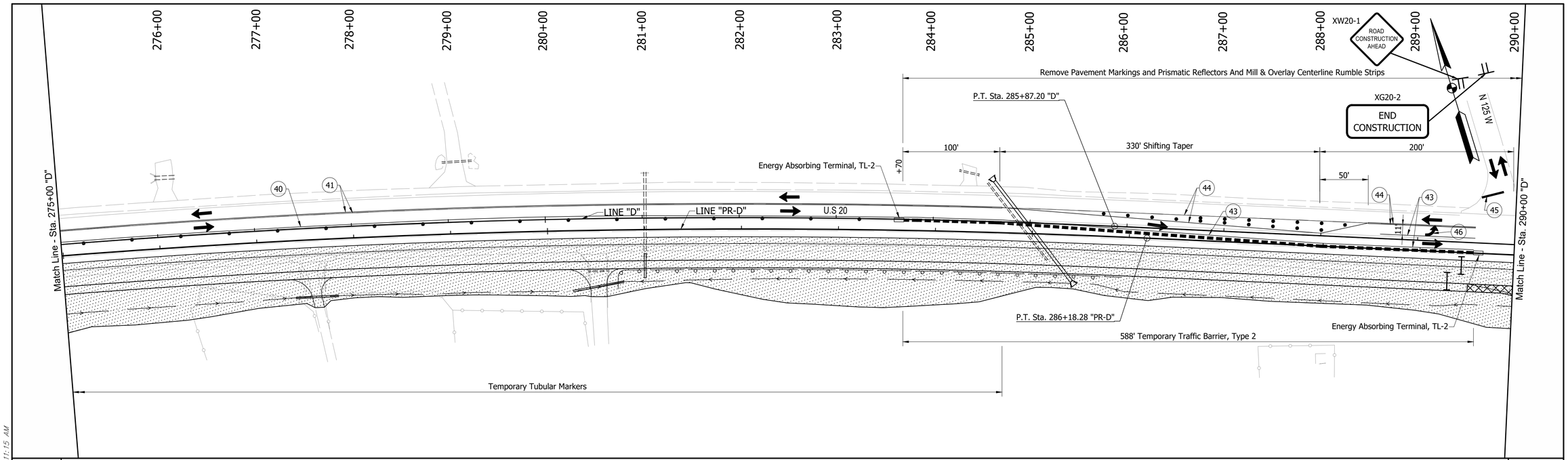


CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JWG DRAWN: DRM

CHECKED: JCS CHECKED: JWG

INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PHASE 2A

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 27 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

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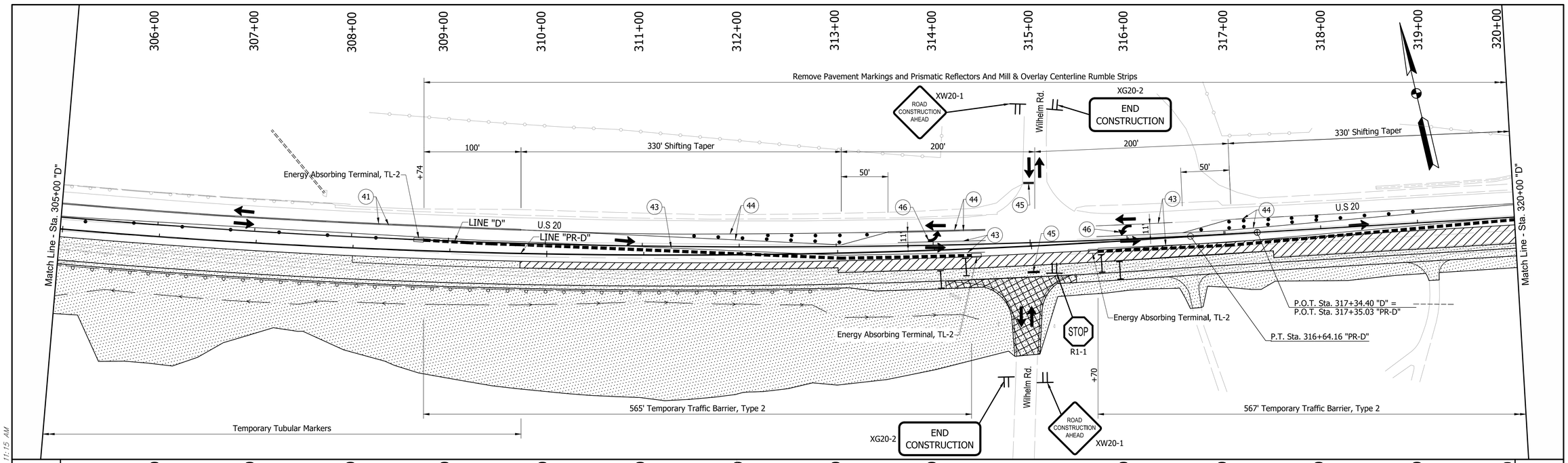
PRELIMINARY PLANS




LEGEND

- PHASE 2B - MILL AND OVERLAY
- AREA OF CONSTRUCTION UNDER FLAGGING OPERATIONS
- AREA OF CONSTRUCTION
- Temp. Traffic Barrier, Type 2
- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TRAFFIC SIGNS
- TYPE III-B BARRICADE
- (41) TEMP. PAVEMENT MARKING, SOLID YELLOW, 6"
- (43) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 6"
- (44) TEMP. PAVEMENT MARKING, REMOVABLE SOLID YELLOW, 6"
- (45) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 24"
- (46) TEMP. PAVEMENT MARKING, REMOVABLE, LANE INDICATION ARROW

CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JWG DRAWN: DRM

CHECKED: JCS CHECKED: JWG

INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PHASE 2A

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 28 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

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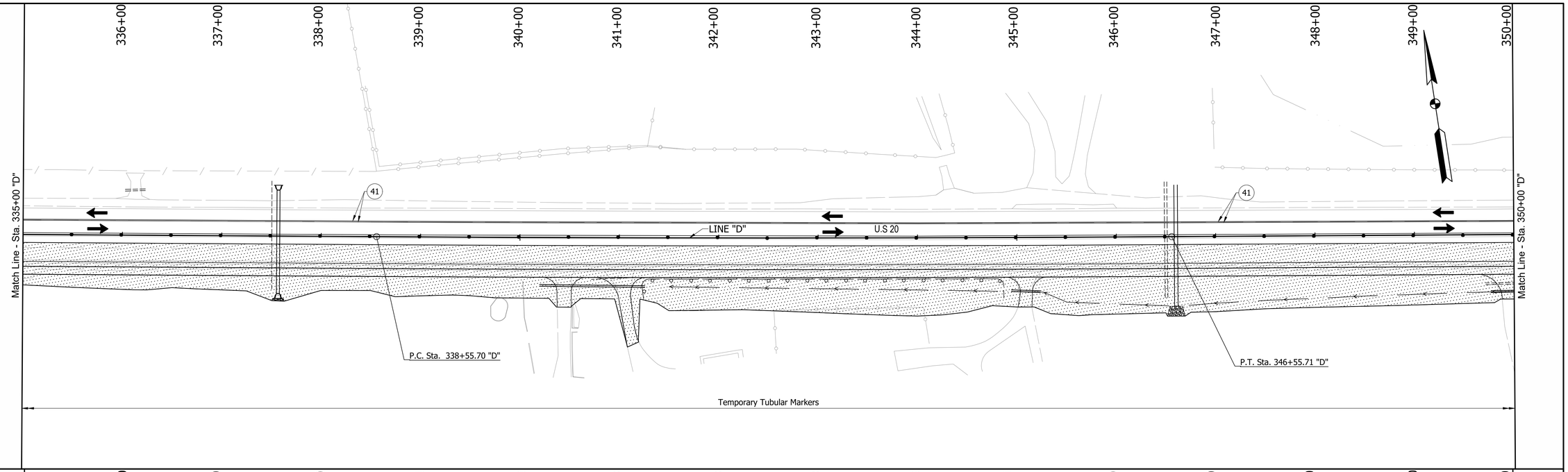
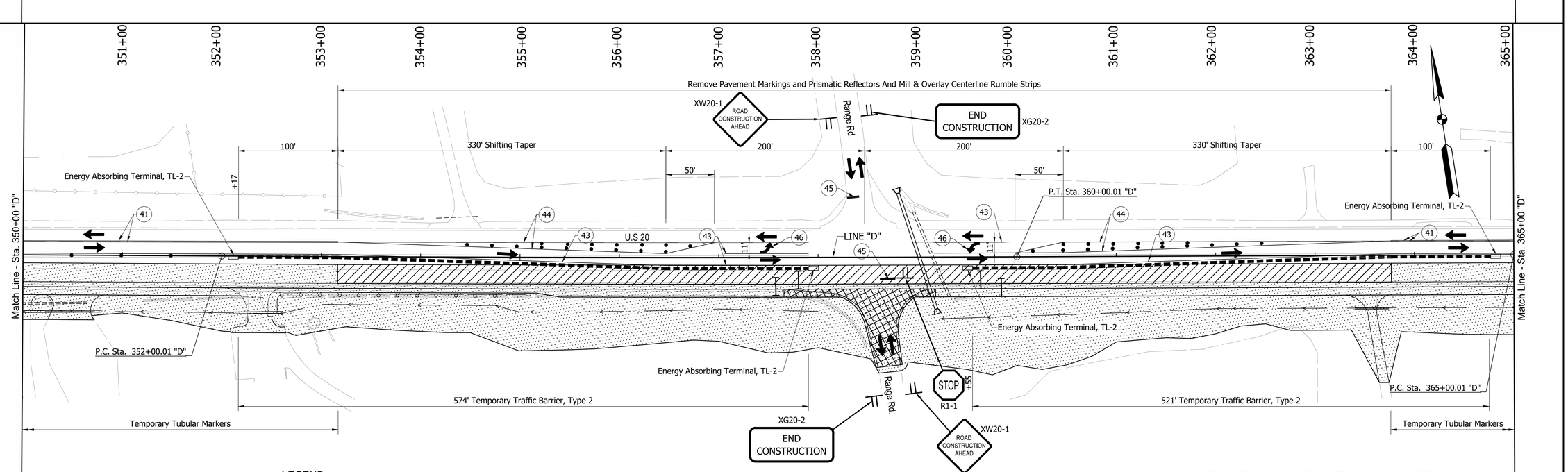
PRELIMINARY PLANS




## LEGEND

- PHASE 2B - MILL AND OVERLAY
- AREA OF CONSTRUCTION UNDER FLAGGING OPERATIONS
- AREA OF CONSTRUCTION
- Temp. Traffic Barrier, Type 2
- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TRAFFIC SIGNS
- TYPE III-B BARRICADE
- (41) TEMP. PAVEMENT MARKING, SOLID YELLOW, 6"
- (43) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 6"
- (44) TEMP. PAVEMENT MARKING, REMOVABLE SOLID YELLOW, 6"
- (45) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 24"
- (46) TEMP. PAVEMENT MARKING, REMOVABLE, LANE INDICATION ARROW

CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JWG DRAWN: DRM

CHECKED: JCS CHECKED: JWG

INDIANA DEPARTMENT OF TRANSPORTATION

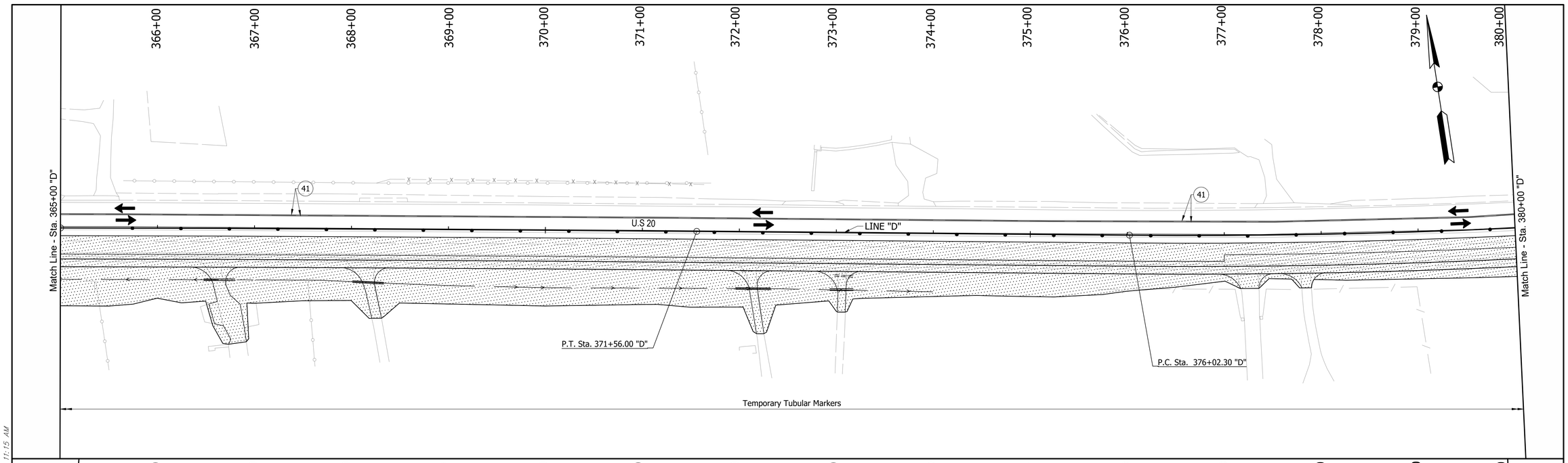
MAINTENANCE OF TRAFFIC PHASE 2A

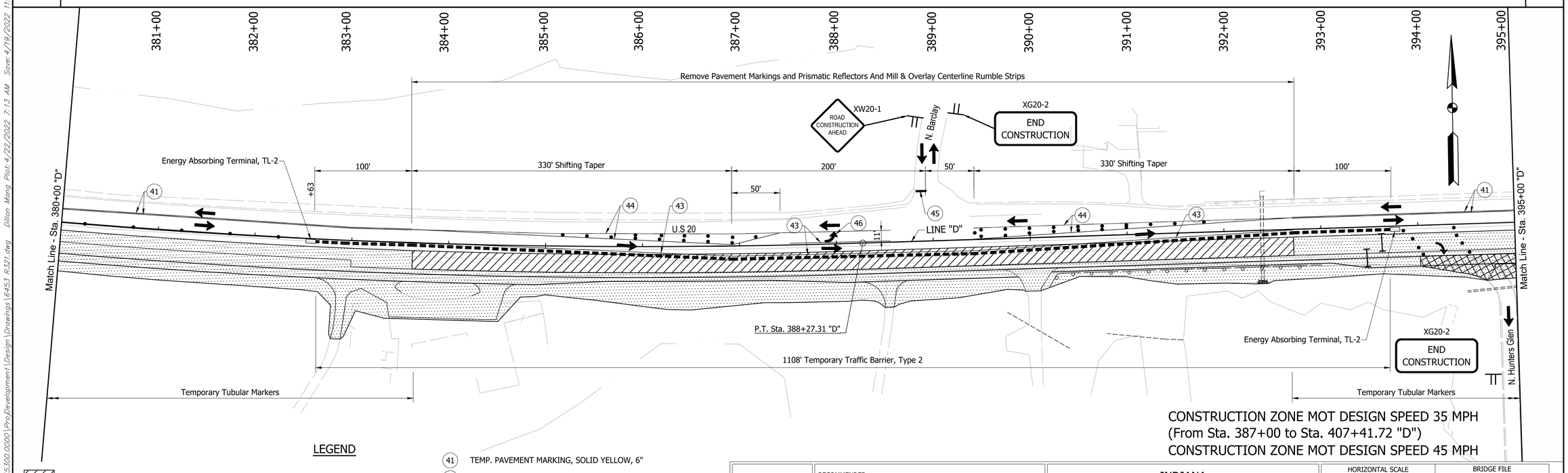
| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 29 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

\\bfsfs02\Jobs5\6453000.0000\ProDevelopment\Design\Drawings\6453_R321.dwg Dillon Mong Plot:4/22/2022 7:13 AM Save:4/19/2022 11:15 AM

PRELIMINARY PLANS




CONSTRUCTION ZONE MOT DESIGN SPEED 35 MPH
(From Sta. 387+00 to Sta. 407+41.72 "D")
CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

LEGEND

- PHASE 2B - MILL AND OVERLAY
- AREA OF CONSTRUCTION UNDER FLAGGING OPERATIONS
- AREA OF CONSTRUCTION
- Temp. Traffic Barrier, Type 2
- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TRAFFIC SIGNS
- TYPE III-B BARRICADE
- (41) TEMP. PAVEMENT MARKING, SOLID YELLOW, 6"
- (43) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 6"
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- (46) TEMP. PAVEMENT MARKING, REMOVABLE, LANE INDICATION ARROW

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JWG | DRAWN: DRM

CHECKED: JCS | CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE 2A

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 30 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

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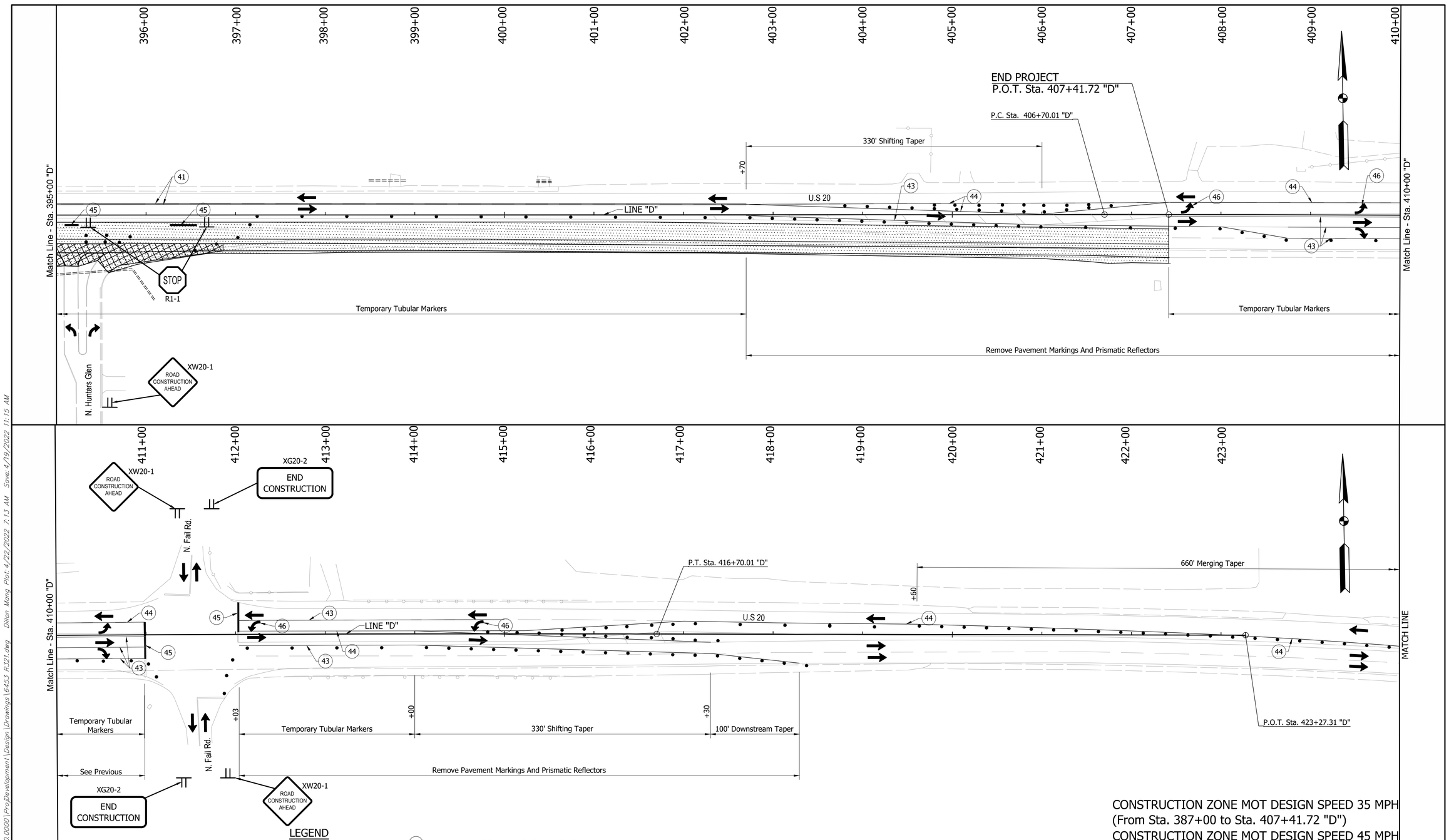
PRELIMINARY PLANS




CONSTRUCTION ZONE MOT DESIGN SPEED 35 MPH
(From Sta. 387+00 to Sta. 407+41.72 "D")
CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JWG DRAWN: DRM

CHECKED: JCS CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE 2A

| | |
|---|---|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 31 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS

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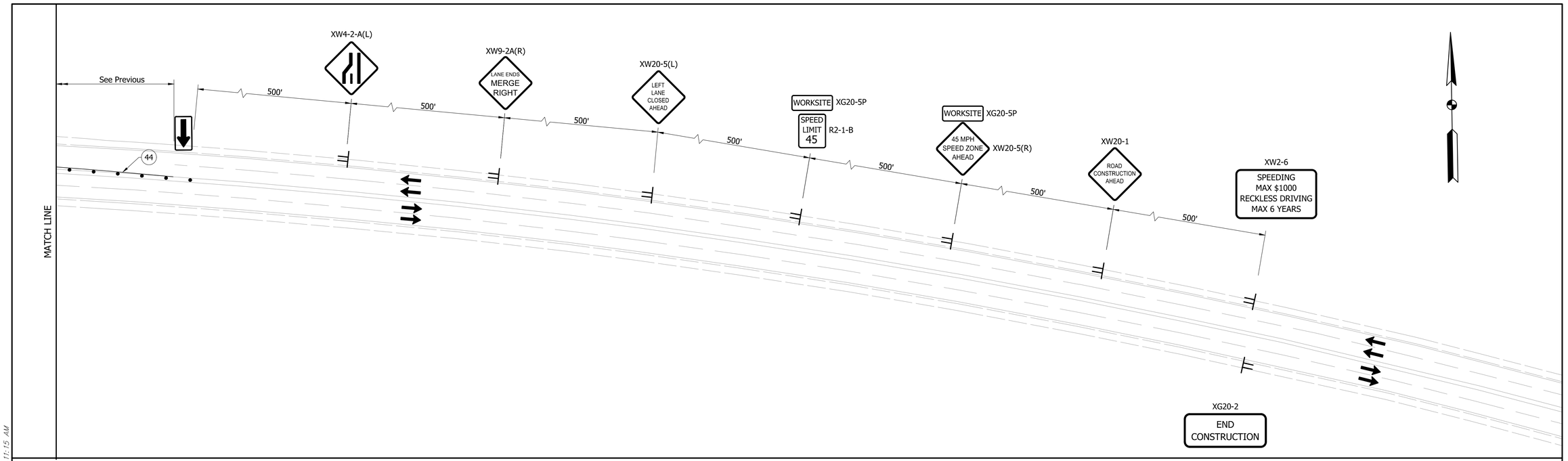


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LEGEND

- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TRAFFIC SIGNS
- ARROW BOARD
- (44) TEMP. PAVEMENT MARKING, REMOVABLE SOLID YELLOW, 6"

CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JCS | DRAWN: DRM

CHECKED: JWG | CHECKED: JWG

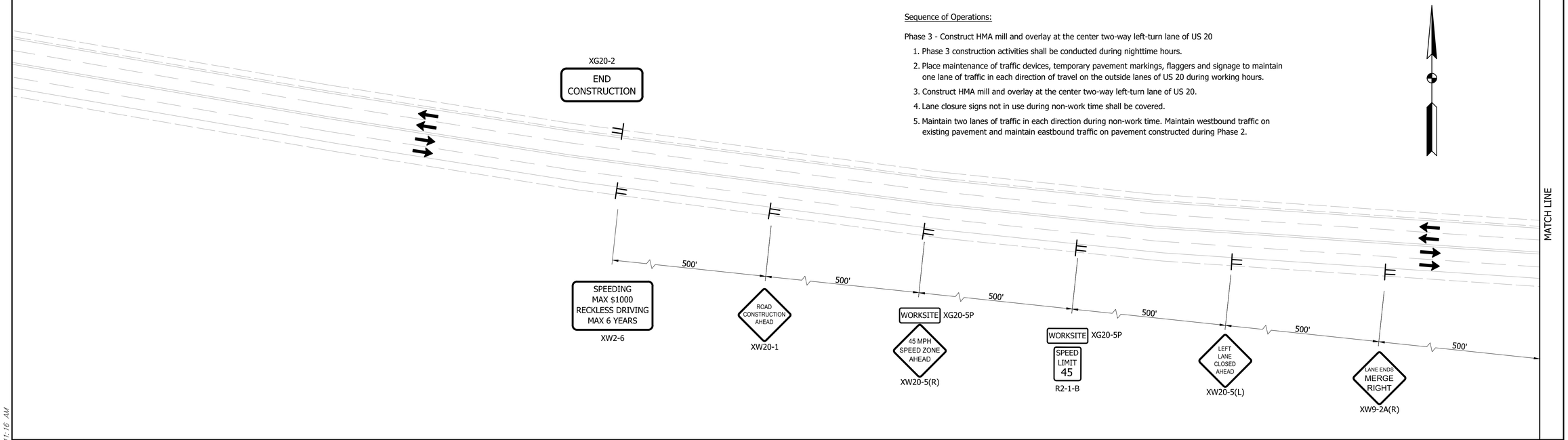
INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE 2A

| | |
|---|---|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 32 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

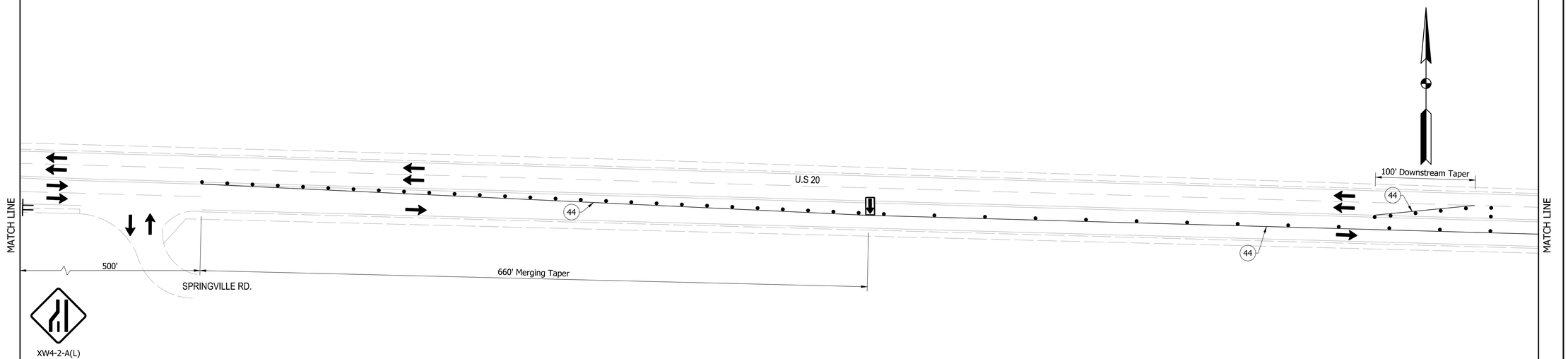
PRELIMINARY PLANS




Sequence of Operations:

Phase 3 - Construct HMA mill and overlay at the center two-way left-turn lane of US 20

1. Phase 3 construction activities shall be conducted during nighttime hours.
2. Place maintenance of traffic devices, temporary pavement markings, flaggers and signage to maintain one lane of traffic in each direction of travel on the outside lanes of US 20 during working hours.
3. Construct HMA mill and overlay at the center two-way left-turn lane of US 20.
4. Lane closure signs not in use during non-work time shall be covered.
5. Maintain two lanes of traffic in each direction during non-work time. Maintain westbound traffic on existing pavement and maintain eastbound traffic on pavement constructed during Phase 2.




LEGEND

- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TRAFFIC SIGNS
- ARROW BOARD
- (44) TEMP. PAVEMENT MARKING, REMOVABLE SOLID YELLOW, 6"

CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

| | | | |
|---|---|---|---|
| RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE | | INDIANA DEPARTMENT OF TRANSPORTATION | HORIZONTAL SCALE: 1"=50' / BRIDGE FILE: |
| DESIGNED: JCS | DRAWN: DRM | MAINTENANCE OF TRAFFIC PHASE 3 | VERTICAL SCALE: N/A / DESIGNATION: 1702993 |
| CHECKED: JWG | CHECKED: JWG | | SURVEY BOOK: / SHEET: 33 OF 283 |
| | | | CONTRACT: R-41437 / PROJECT: 1702993 |

BRS NO. 6453.0000

PRELIMINARY PLANS

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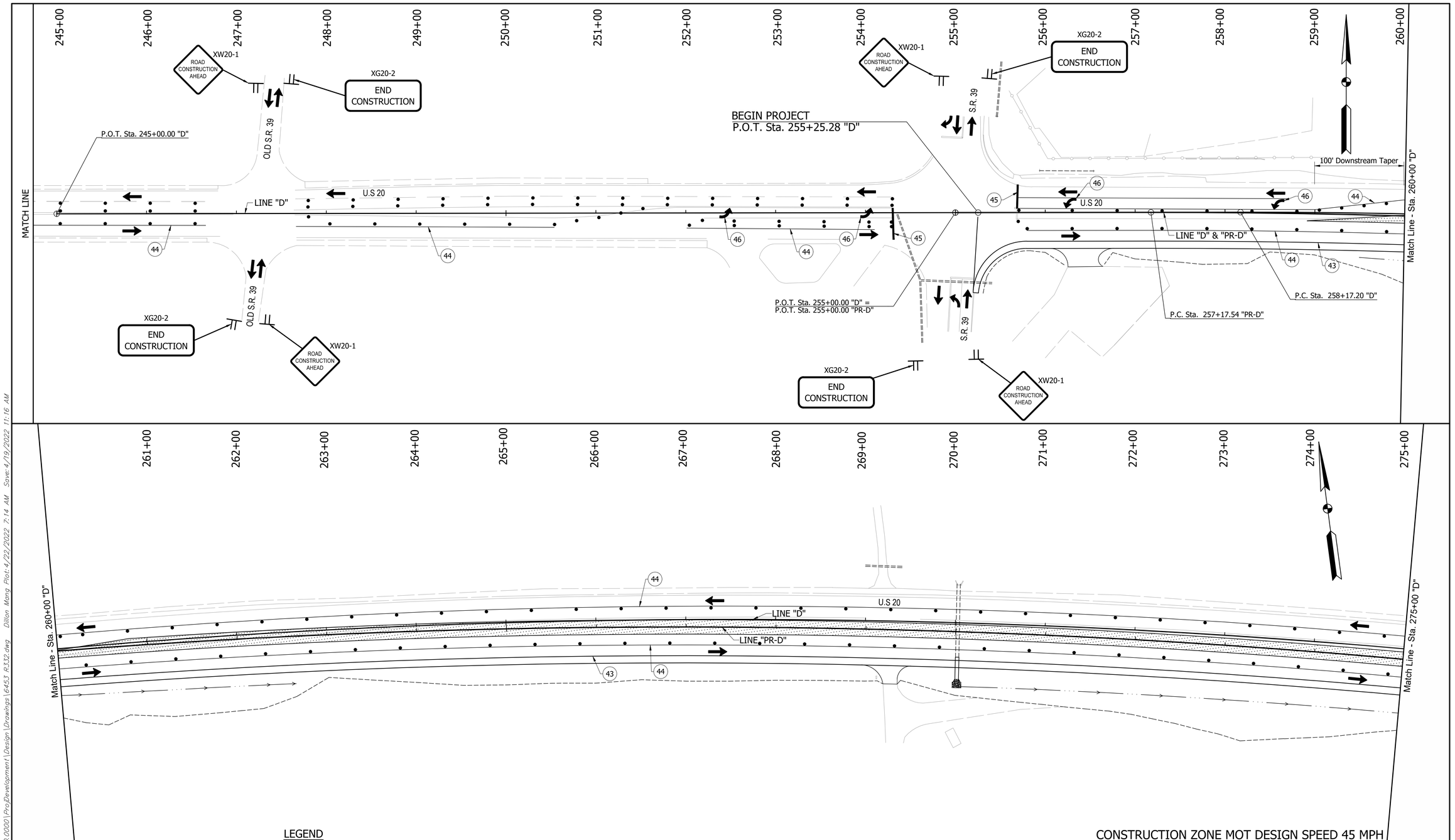


LEGEND

- AREA OF CONSTRUCTION
- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TRAFFIC SIGNS

(43) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 6"
(44) TEMP. PAVEMENT MARKING, REMOVABLE SOLID YELLOW, 6"
(45) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 24"
(46) TEMP. PAVEMENT MARKING, REMOVABLE, LANE INDICATION ARROW

CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JCS DRAWN: DRM

CHECKED: JWG CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE 3

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 34 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BRS NO. 6453.0000

PRELIMINARY PLANS

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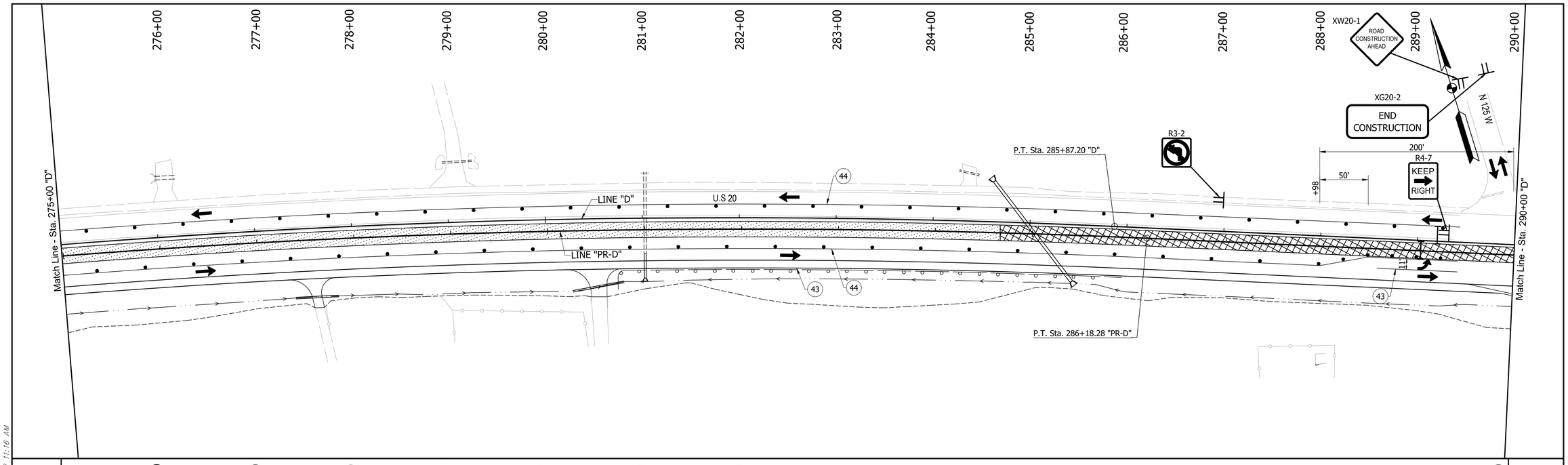


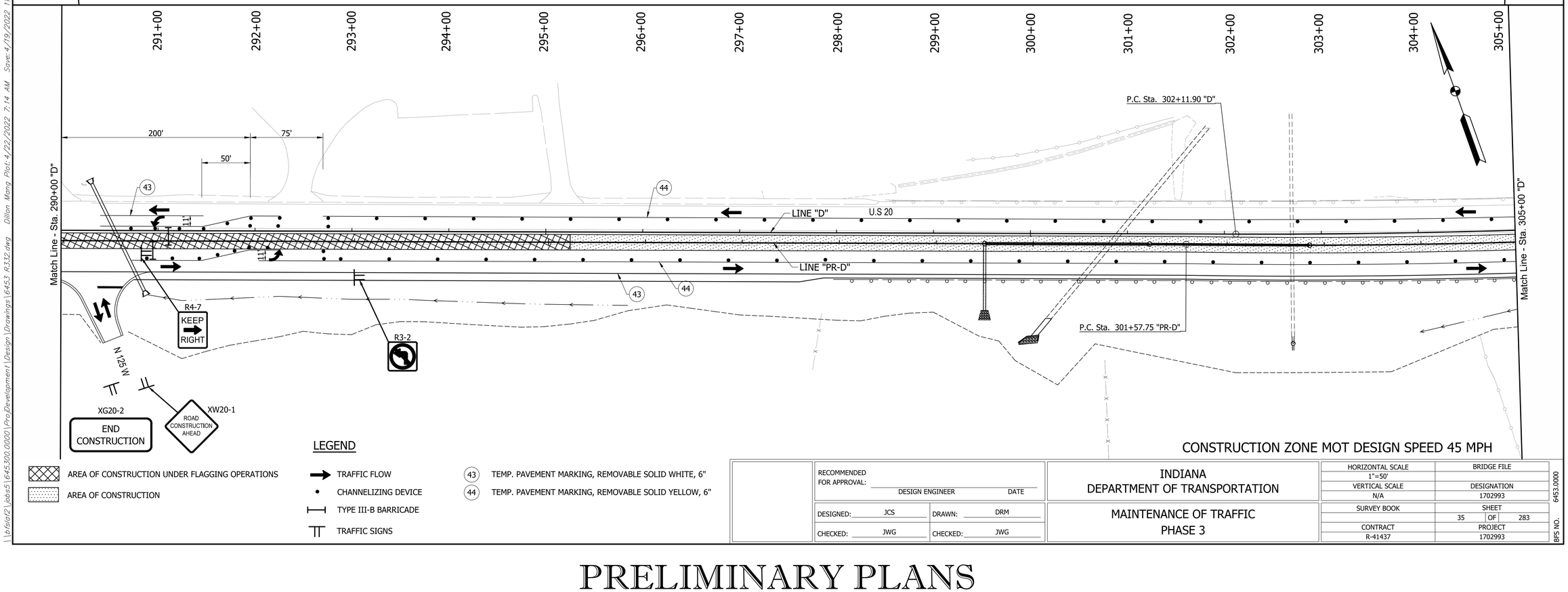


LEGEND

- AREA OF CONSTRUCTION UNDER FLAGGING OPERATIONS
- AREA OF CONSTRUCTION
- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TYPE III-B BARRICADE
- TRAFFIC SIGNS
- (43) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 6"
- (44) TEMP. PAVEMENT MARKING, REMOVABLE SOLID YELLOW, 6"

CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JCS | DRAWN: DRM

CHECKED: JWG | CHECKED: JWG

INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PHASE 3

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 35 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS

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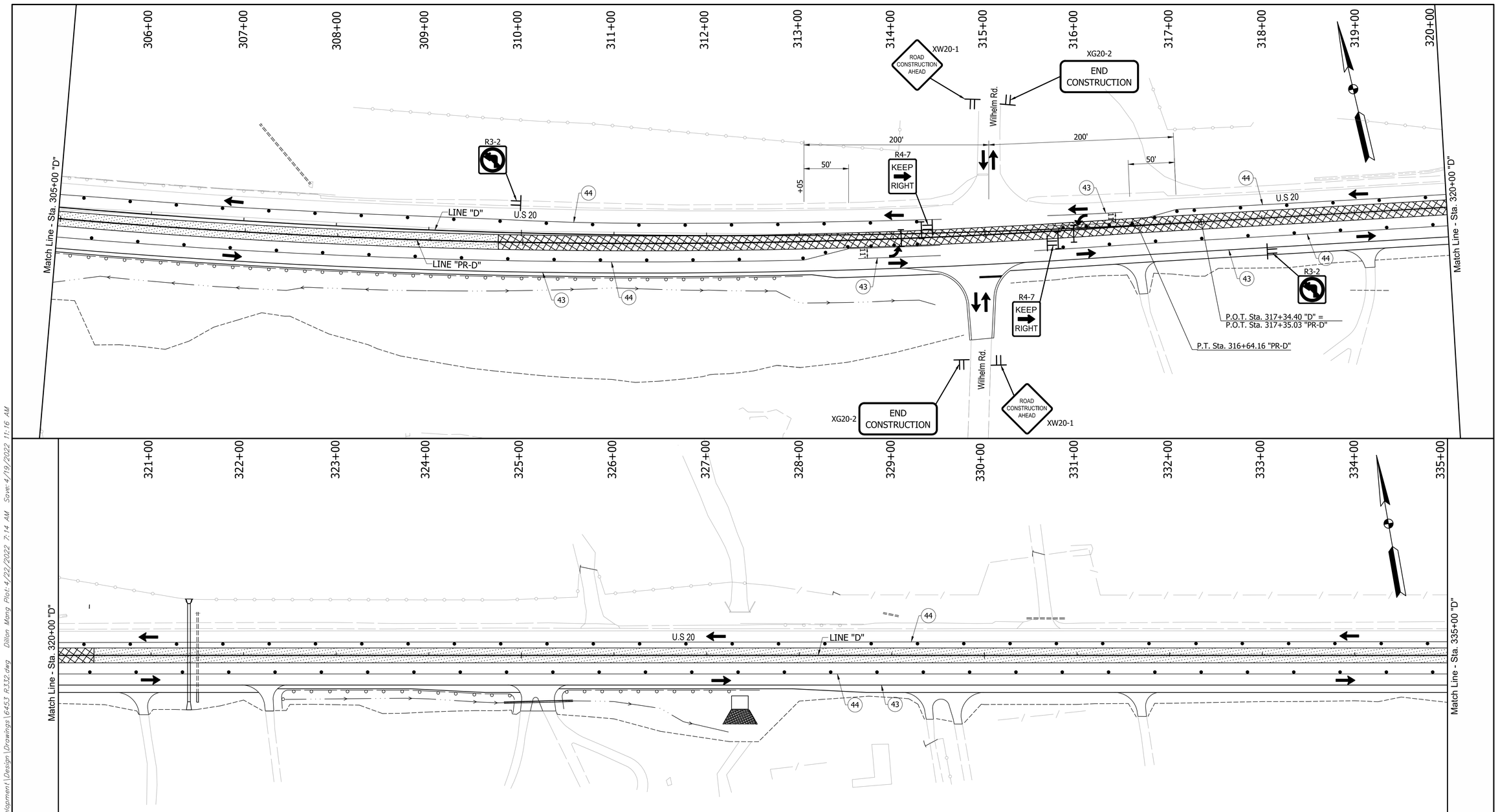


LEGEND

- AREA OF CONSTRUCTION UNDER FLAGGING OPERATIONS
- AREA OF CONSTRUCTION
- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TYPE III-B BARRICADE
- TRAFFIC SIGNS
- (43) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 6"
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CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JCS | DRAWN: DRM | CHECKED: JWG | CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE 3

| | |
|---|---|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 36 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS

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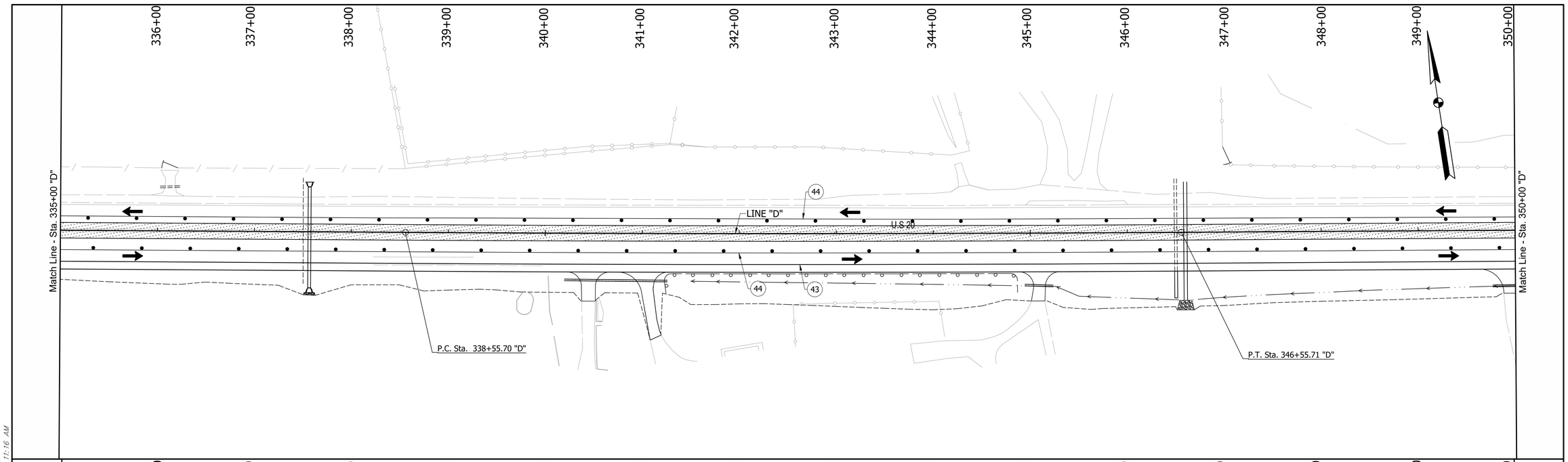


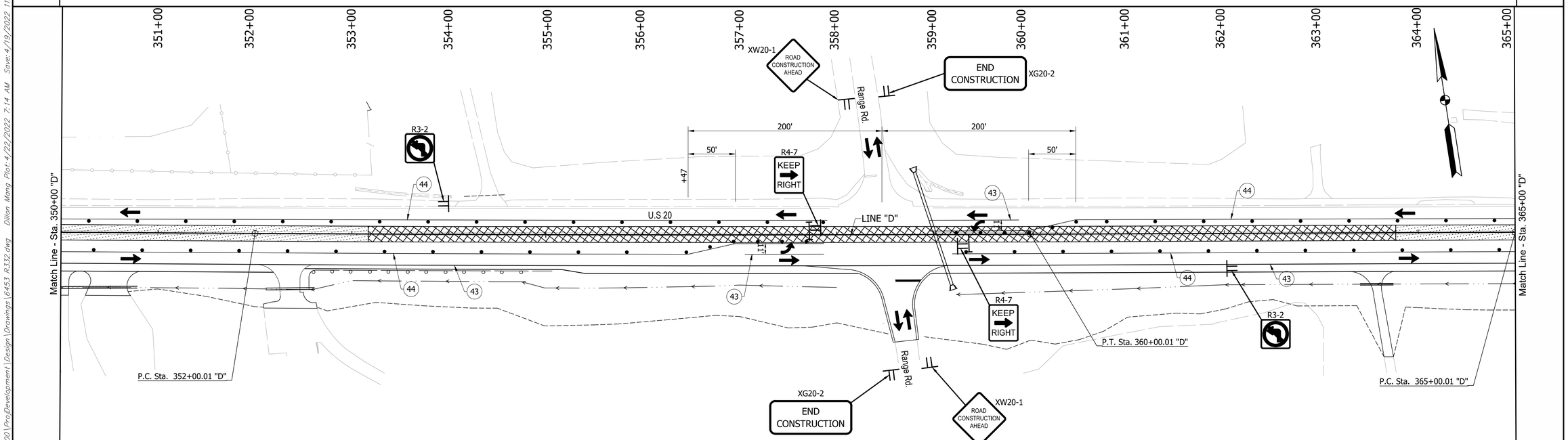


LEGEND

- AREA OF CONSTRUCTION UNDER FLAGGING OPERATIONS
- AREA OF CONSTRUCTION
- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TYPE III-B BARRICADE
- TRAFFIC SIGNS
- (43) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 6"
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CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JCS DRAWN: DRM

CHECKED: JWG CHECKED: JWG

INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PHASE 3

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 37 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

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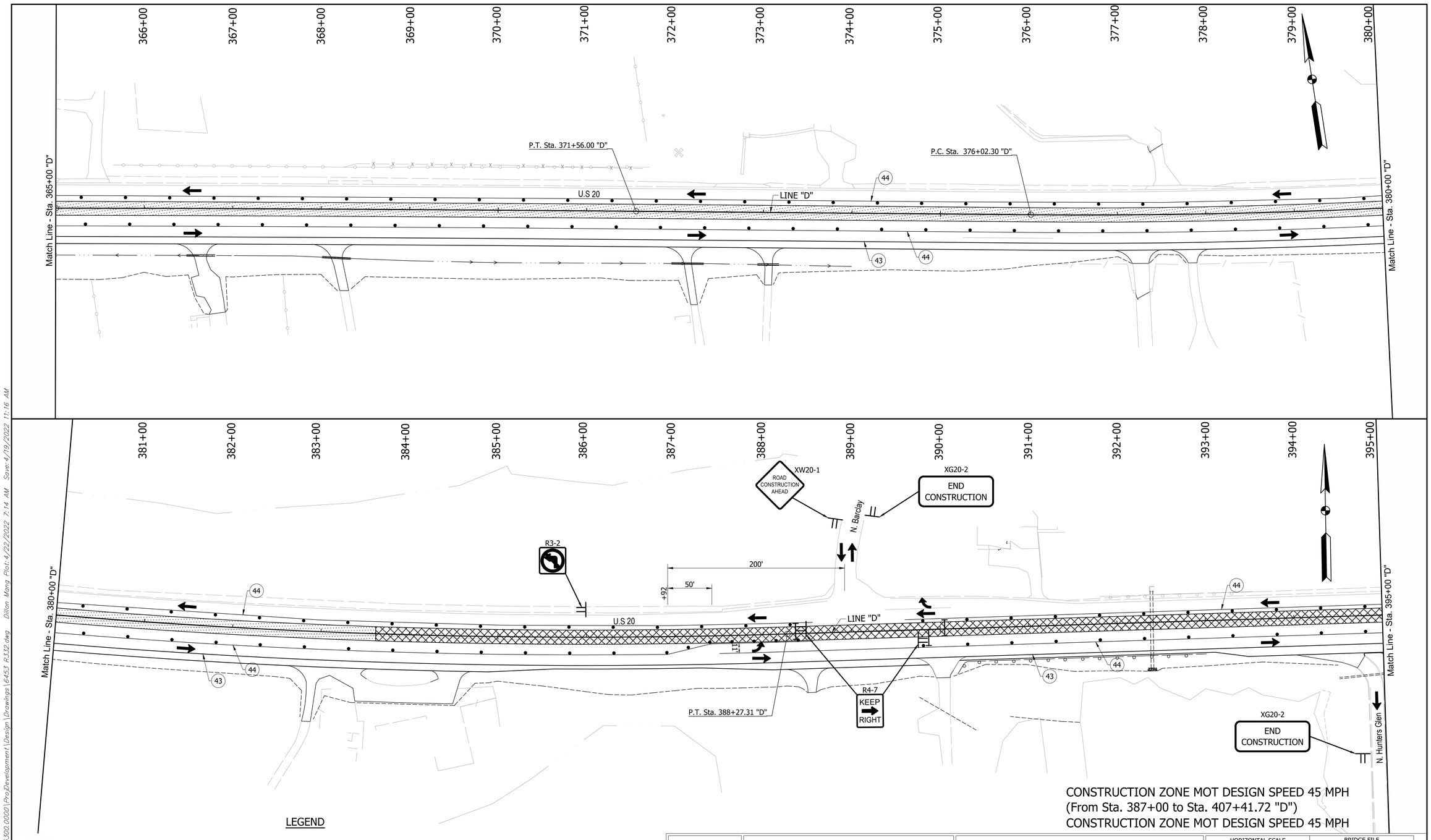
PRELIMINARY PLANS




CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH
(From Sta. 387+00 to Sta. 407+41.72 "D")
CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

LEGEND

- AREA OF CONSTRUCTION UNDER FLAGGING OPERATIONS
- AREA OF CONSTRUCTION
- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TYPE III-B BARRICADE
- TRAFFIC SIGNS
- (43) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 6"
- (44) TEMP. PAVEMENT MARKING, REMOVABLE SOLID YELLOW, 6"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JCS | DRAWN: DRM | CHECKED: JWG | CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE 3

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 38 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

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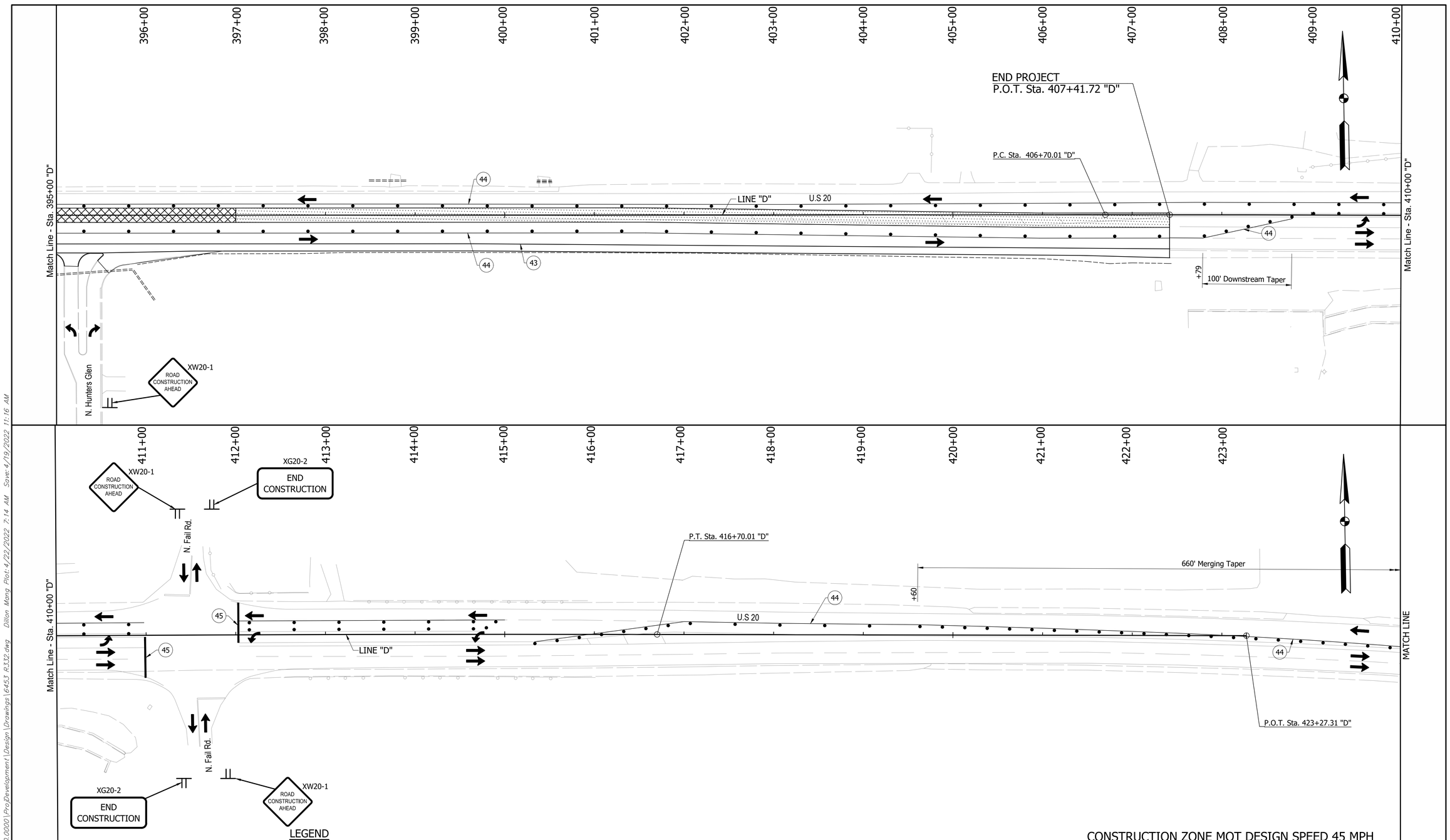
PRELIMINARY PLANS




CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JCS DRAWN: DRM

CHECKED: JWG CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE 3

| | |
|---|---|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 39 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

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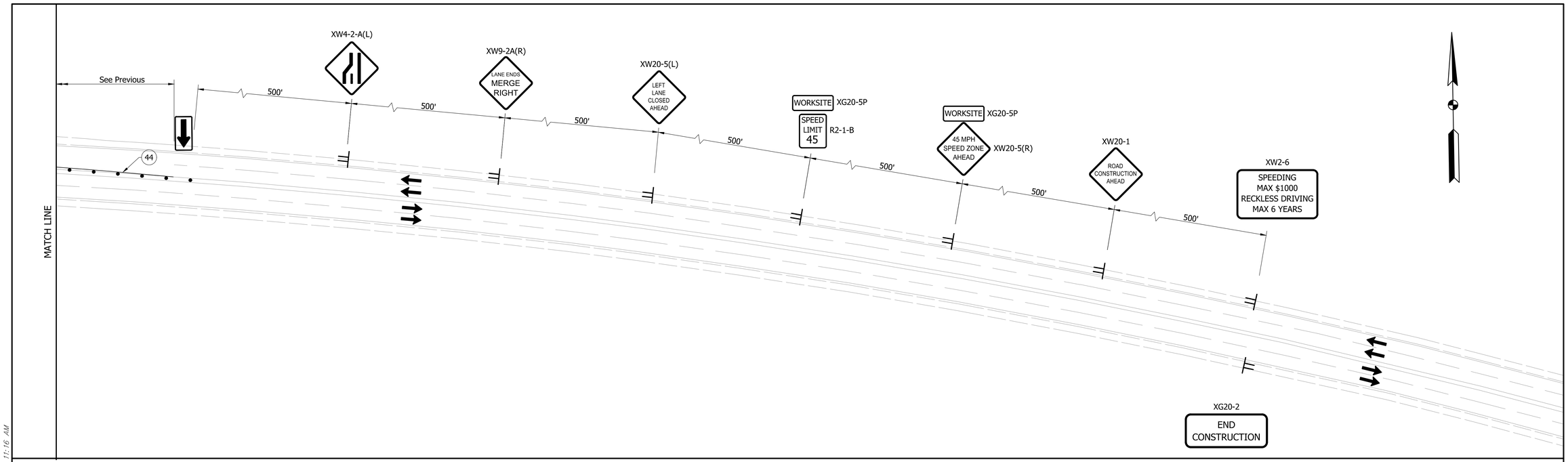
PRELIMINARY PLANS

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## LEGEND

- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TRAFFIC SIGNS
- ARROW BOARD
- (44) TEMP. PAVEMENT MARKING, REMOVABLE SOLID YELLOW, 6"

CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JCS DRAWN: DRM

CHECKED: JWG CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE 3

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 40 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS

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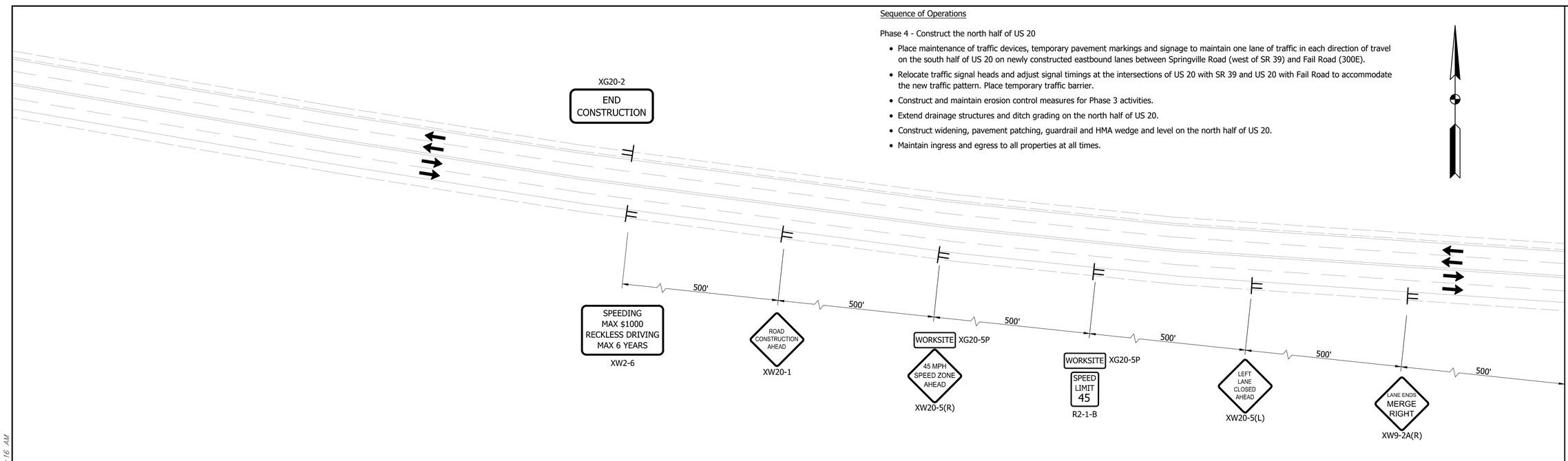
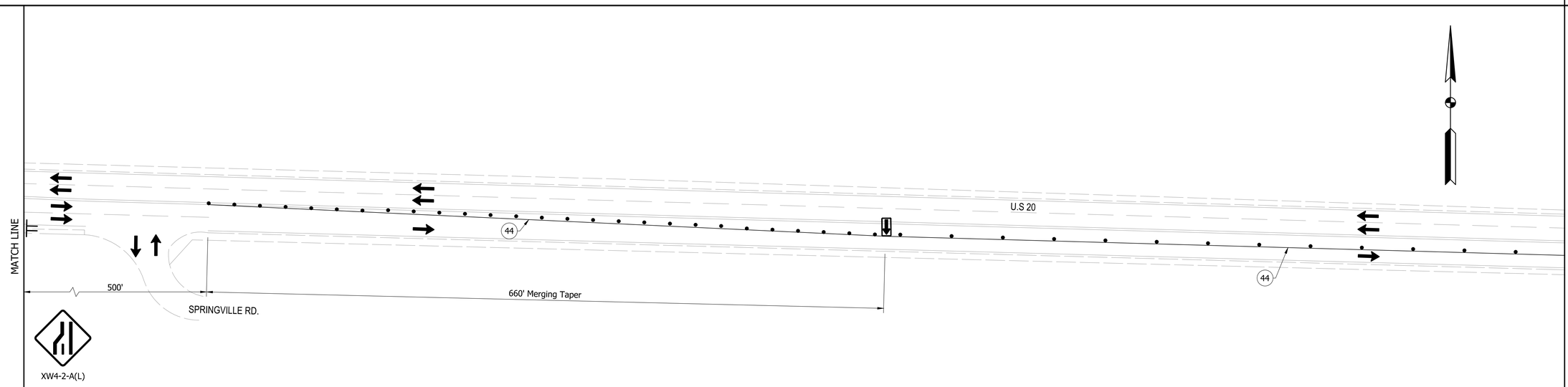
Sequence of Operations

Phase 4 - Construct the north half of US 20

- Place maintenance of traffic devices, temporary pavement markings and signage to maintain one lane of traffic in each direction of travel on the south half of US 20 on newly constructed eastbound lanes between Springville Road (west of SR 39) and Fail Road (300E).
- Relocate traffic signal heads and adjust signal timings at the intersections of US 20 with SR 39 and US 20 with Fail Road to accommodate the new traffic pattern. Place temporary traffic barrier.
- Construct and maintain erosion control measures for Phase 3 activities.
- Extend drainage structures and ditch grading on the north half of US 20.
- Construct widening, pavement patching, guardrail and HMA wedge and level on the north half of US 20.
- Maintain ingress and egress to all properties at all times.




LEGEND

- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TRAFFIC SIGNS
- ARROW BOARD
- (44) TEMP. PAVEMENT MARKING, REMOVABLE SOLID YELLOW, 6"

CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JWG | DRAWN: DRM | CHECKED: JCS | CHECKED: JWG

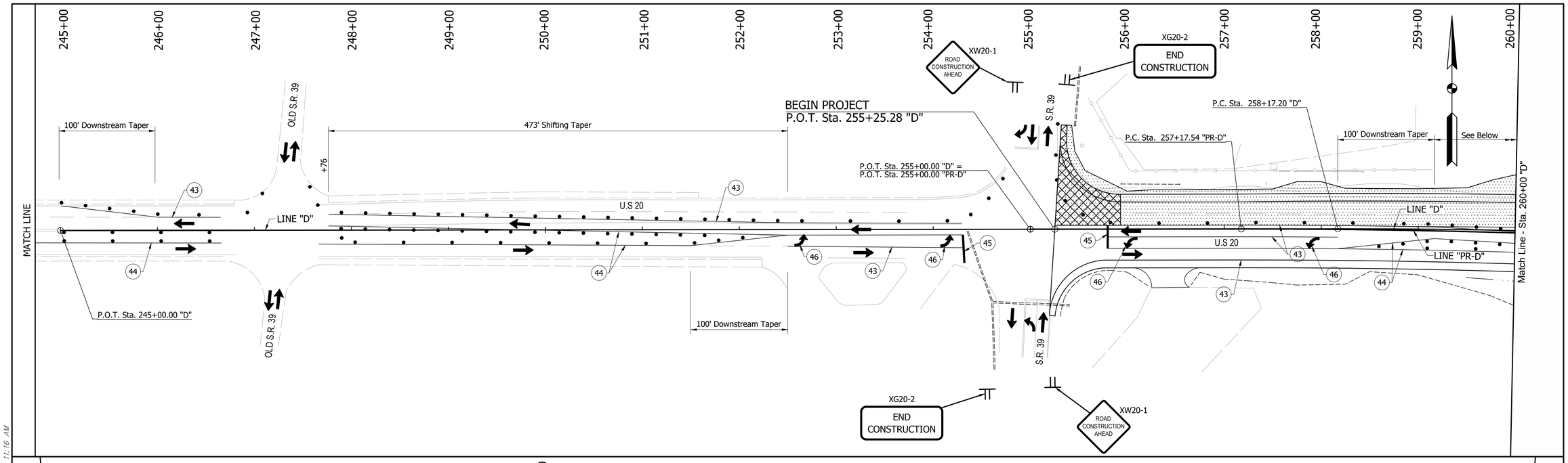
INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PHASE 4

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 41 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS




## LEGEND

- AREA OF CONSTRUCTION UNDER FLAGGING OPERATIONS
- AREA OF CONSTRUCTION
- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TRAFFIC SIGNS
- (43) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 6"
- (44) TEMP. PAVEMENT MARKING, REMOVABLE SOLID YELLOW, 6"
- (45) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 24"
- (46) TEMP. PAVEMENT MARKING, REMOVABLE, LANE INDICATION ARROW

CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JWG | DRAWN: DRM | CHECKED: JCS | CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE 4

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 42 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

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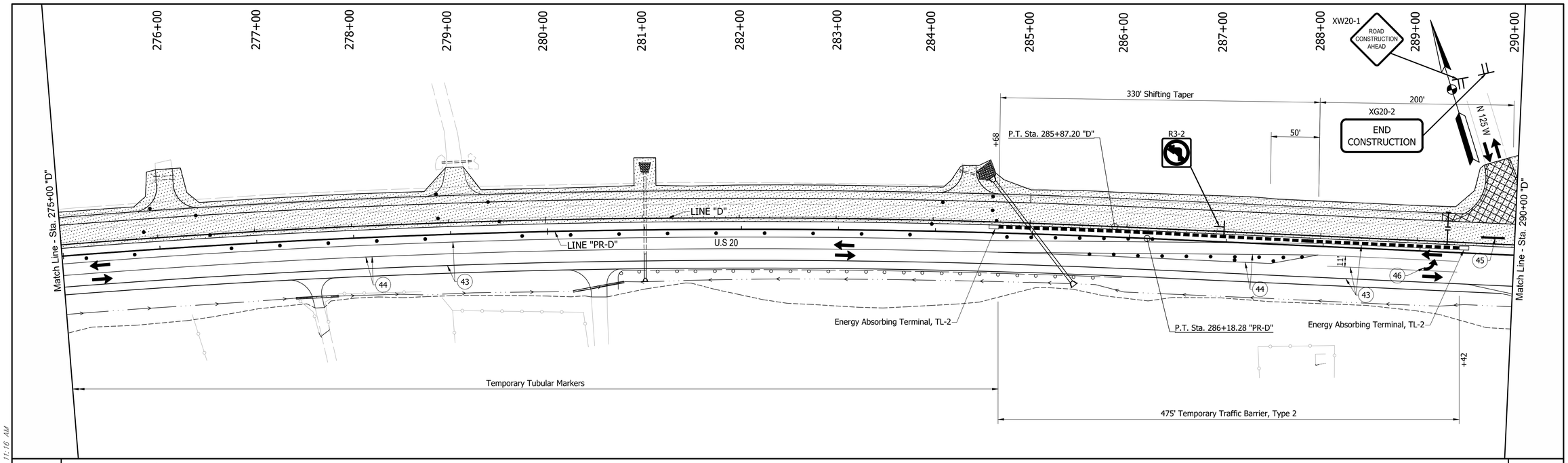
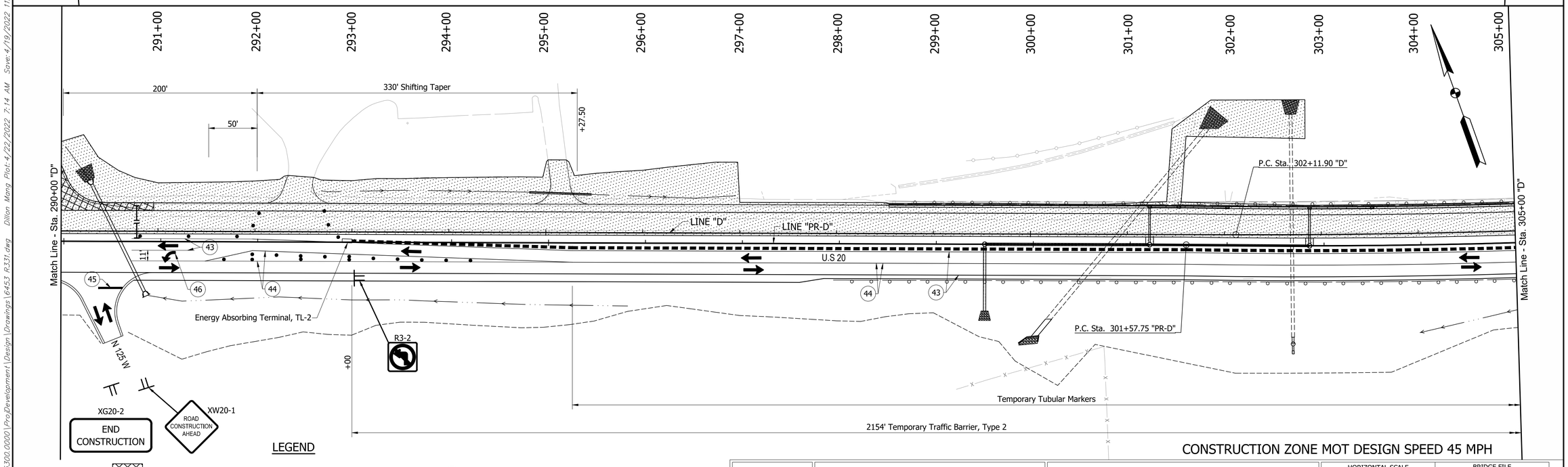
PRELIMINARY PLANS




LEGEND

- AREA OF CONSTRUCTION UNDER FLAGGING OPERATIONS
- AREA OF CONSTRUCTION
- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TYPE III-B BARRICADE
- Temp. Traffic Barrier, Type 2
- TRAFFIC SIGNS
- (43) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 6"
- (44) TEMP. PAVEMENT MARKING, REMOVABLE SOLID YELLOW, 6"
- (45) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 24"
- (46) TEMP. PAVEMENT MARKING, REMOVABLE, LANE INDICATION ARROW

CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JWG | DRAWN: DRM

CHECKED: JCS | CHECKED: JWG

INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PHASE 4

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 43 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS

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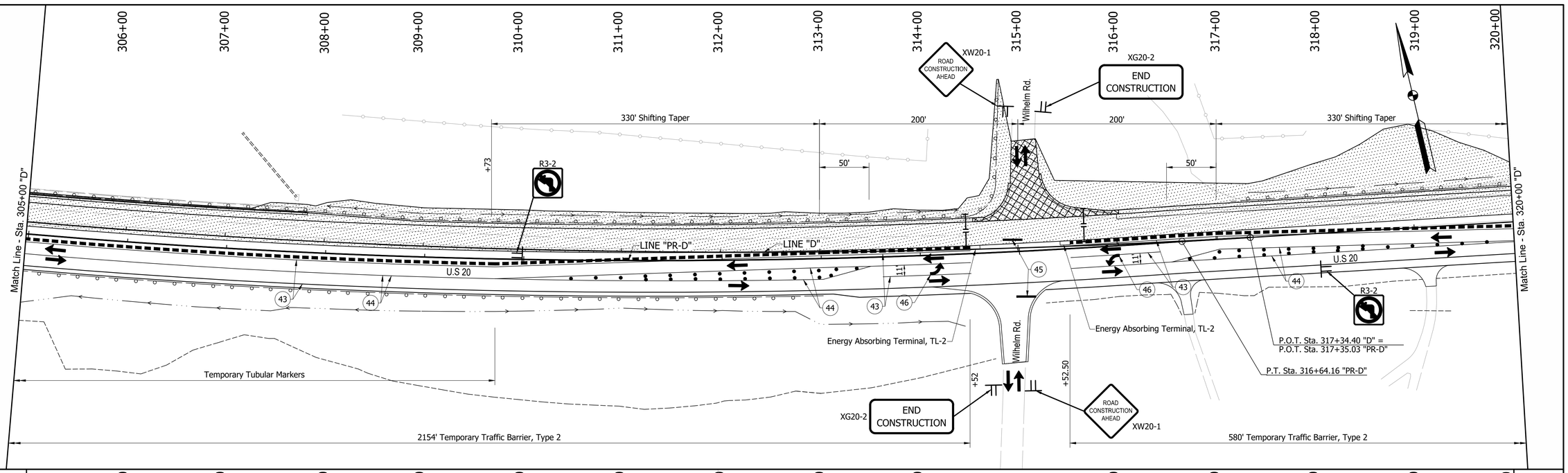


## LEGEND

- AREA OF CONSTRUCTION UNDER FLAGGING OPERATIONS
- AREA OF CONSTRUCTION
- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TYPE III-B BARRICADE
- Temp. Traffic Barrier, Type 2
- TRAFFIC SIGNS
- (43) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 6"
- (44) TEMP. PAVEMENT MARKING, REMOVABLE SOLID YELLOW, 6"
- (45) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 24"
- (46) TEMP. PAVEMENT MARKING, REMOVABLE, LANE INDICATION ARROW

CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JWG | DRAWN: DRM | CHECKED: JCS | CHECKED: JWG

INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PHASE 4

| | |
|---|---|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 44 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS

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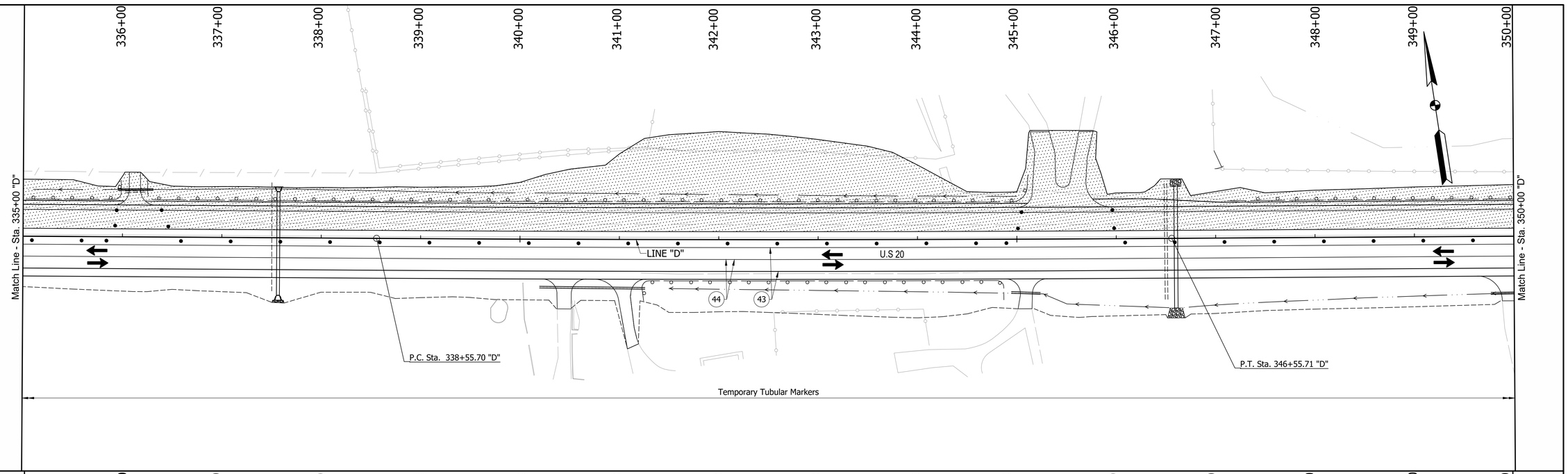


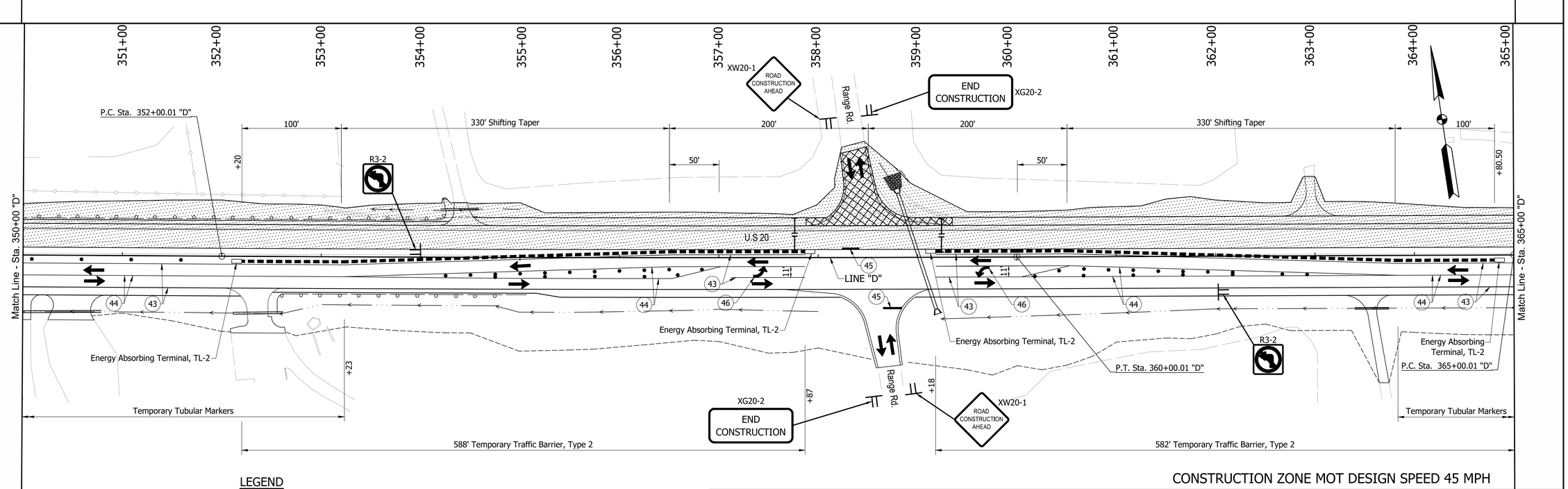


## LEGEND

- AREA OF CONSTRUCTION UNDER FLAGGING OPERATIONS
- AREA OF CONSTRUCTION
- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TYPE III-B BARRICADE
- Temp. Traffic Barrier, Type 2
- TRAFFIC SIGNS

(43) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 6"
(44) TEMP. PAVEMENT MARKING, REMOVABLE SOLID YELLOW, 6"
(45) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 24"
(46) TEMP. PAVEMENT MARKING, REMOVABLE, LANE INDICATION ARROW

CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JWG DRAWN: DRM
CHECKED: JCS CHECKED: JWG

INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PHASE 4

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 45 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS

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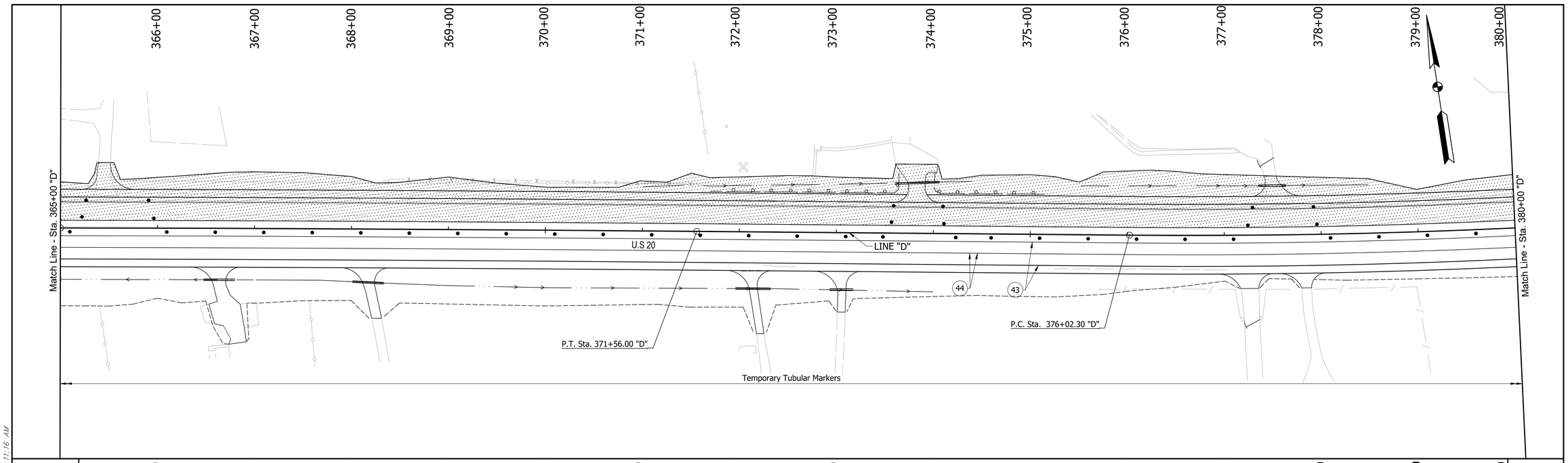


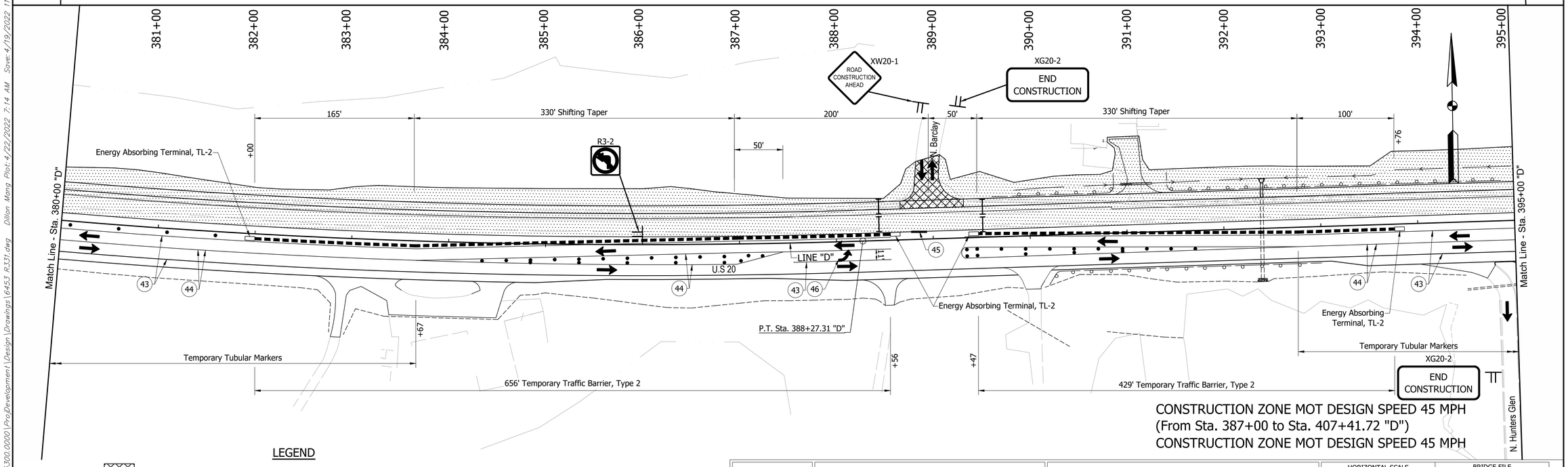


CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH
(From Sta. 387+00 to Sta. 407+41.72 "D")
CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

## LEGEND

- AREA OF CONSTRUCTION UNDER FLAGGING OPERATIONS
- AREA OF CONSTRUCTION
- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TYPE III-B BARRICADE
- Temp. Traffic Barrier, Type 2
- TRAFFIC SIGNS
- (43) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 6"
- (44) TEMP. PAVEMENT MARKING, REMOVABLE SOLID YELLOW, 6"
- (45) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 24"
- (46) TEMP. PAVEMENT MARKING, REMOVABLE, LANE INDICATION ARROW

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JWG DRAWN: DRM
CHECKED: JCS CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE 4

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 46 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

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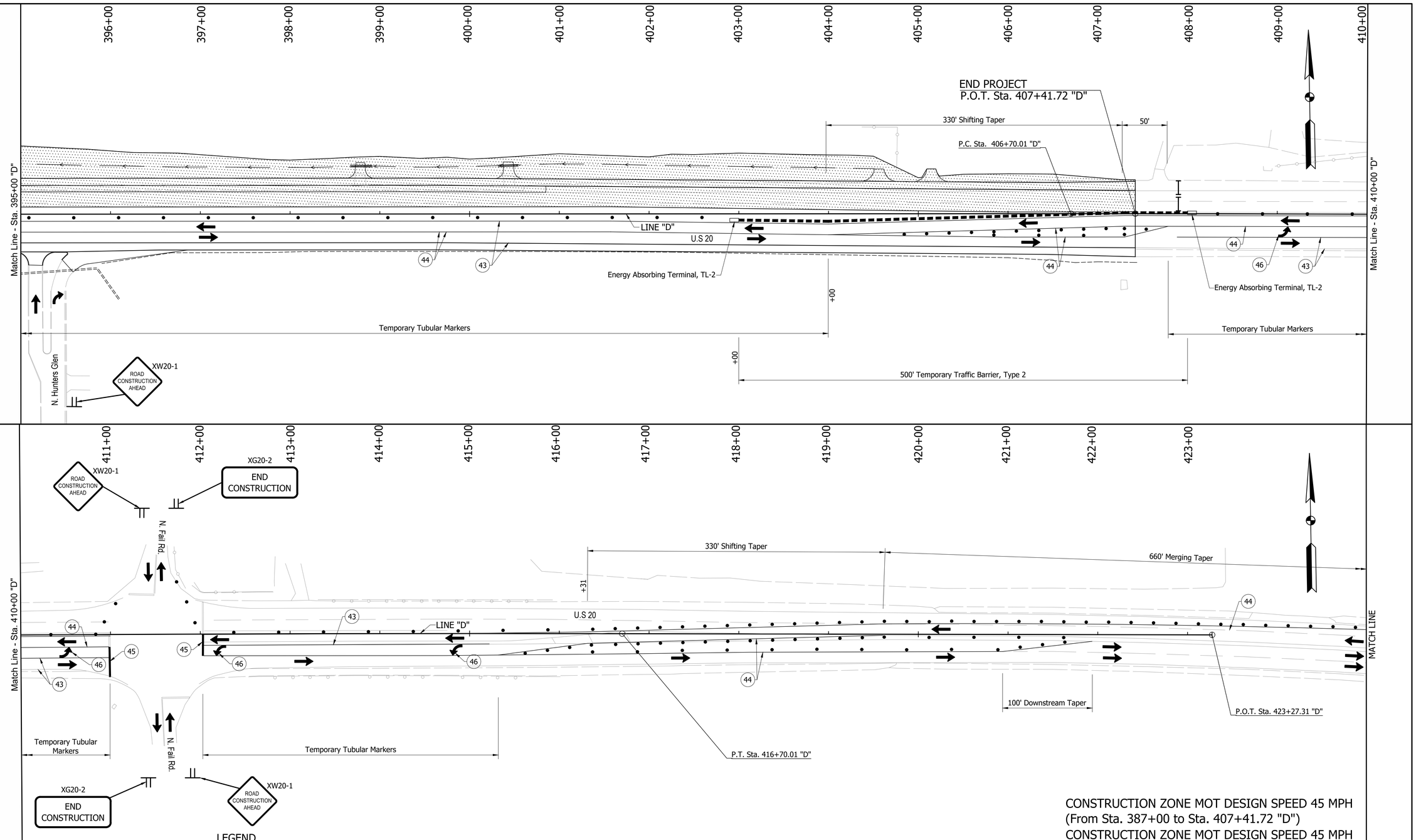
PRELIMINARY PLANS




RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JWG DRAWN: DRM

CHECKED: JCS CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE 4

| | |
|---|---|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 47 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS

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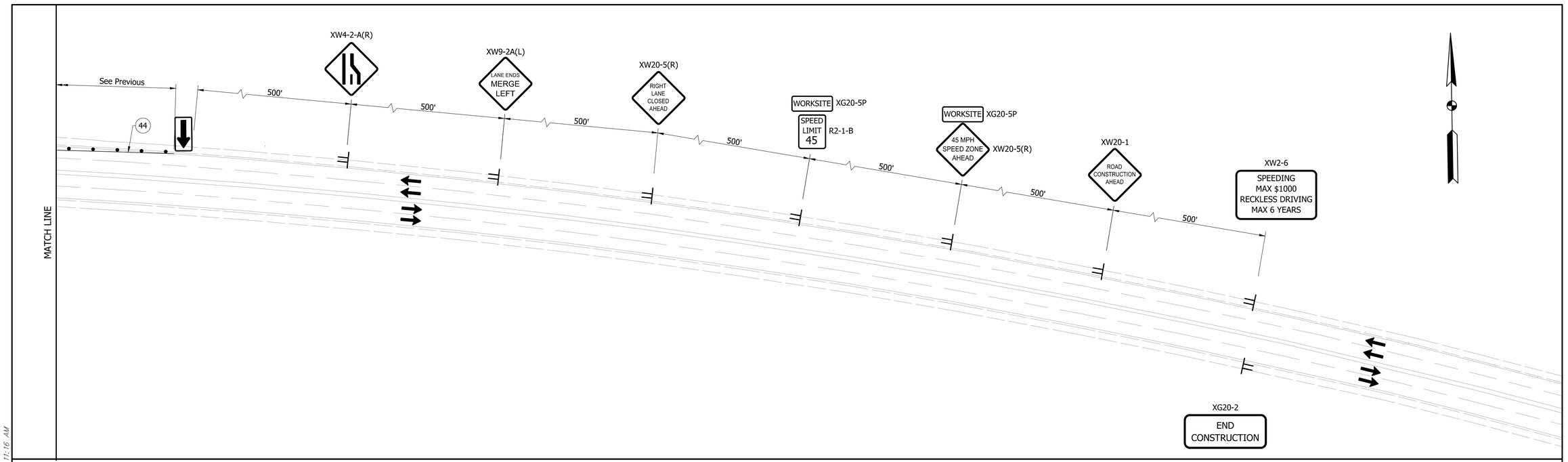


LEGEND

- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TRAFFIC SIGNS
- ARROW BOARD
- (44) TEMP. PAVEMENT MARKING, REMOVABLE SOLID YELLOW, 6"

CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

| | | | |
|---|---|---|---|
| | RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE | INDIANA DEPARTMENT OF TRANSPORTATION | HORIZONTAL SCALE: 1"=50' / BRIDGE FILE: |
| | DESIGNED: JCS / DRAWN: DRM | MAINTENANCE OF TRAFFIC PHASE 4 | VERTICAL SCALE: N/A / DESIGNATION: 1702993 |
| | CHECKED: JWG / CHECKED: JWG | | SURVEY BOOK: / SHEET: 48 OF 283 |
| | | | CONTRACT: R-41437 / PROJECT: 1702993 |

BPS NO. 6453.0000

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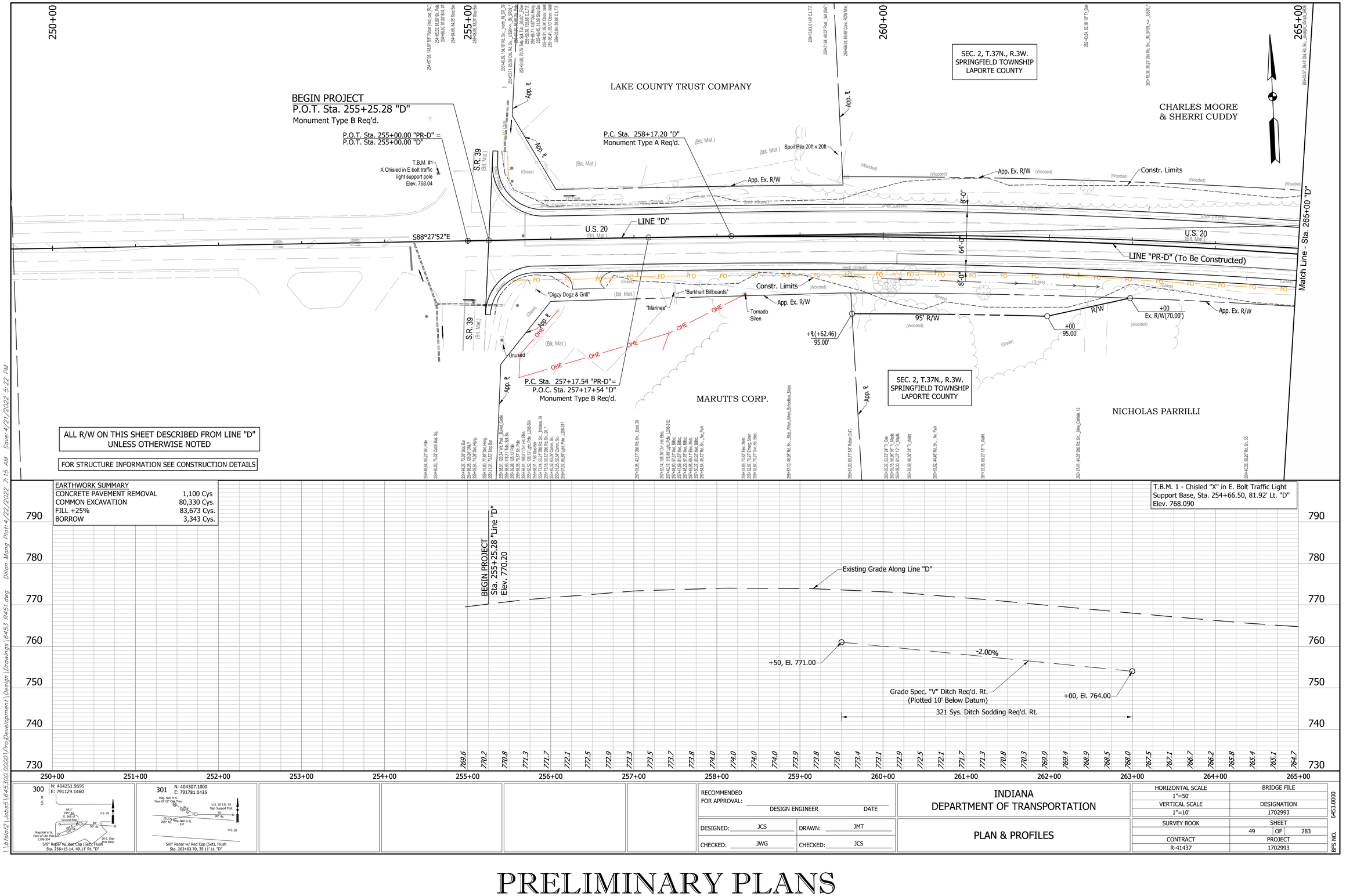
PRELIMINARY PLANS




PRELIMINARY PLANS

CHARLES MOORE & SHERRI CUDDY

NICHOLAS PARRILLI

WILLIE HOWARD

MICHAEL & CHRISTINE HICKS

CURVE DATA
P.I Sta. 271+80.60 "PR-D"
Δ = 18°28'00" Rt.
R = 9000.00'
T = 1463.06'
L = 2900.74'
E = 118.14'
S.E. = 2%

CURVE DATA
P.I Sta. 272+14.32 "D"
Δ = 18°28'00" Rt.
R = 8594.38'
T = 1397.12'
L = 2770.00'
E = 112.82'

P.I. Sta. 271+80.60 "PR-D"
Δ = 18°28'00" Rt.

P.I. Sta. 272+14.32 "D"
Δ = 18°28'00" Rt.

SEC. 2, T.37N., R.3W.
SPRINGFIELD TOWNSHIP
LAPORTE COUNTY

SEC. 2, T.37N., R.3W.
SPRINGFIELD TOWNSHIP
LAPORTE COUNTY

Match Line - Sta. 265+00 "D"

Match Line - Sta. 280+00 "D"

App. 1/4 Sec. Line & ℄

App. ℄

App. Tract Line

App. Ex. R/W

S88°27'52"E

S69°59'52"E

S69°59'52"E

U.S. 20 (Bit. Mat.)

LINE "D"

LINE "PR-D" (To Be Constructed)

Constr. Limits

64'-0"

8'-0"

8'-0"

Pvt. Dr. (Bit. Mat.)

Comm. Dr. (Bit. Mat.)

Shldr. (Gravel)

(Wooded)

(Grass)

OHE

FO

+00
Ex. R/W(70.00')

+03
STR. No. 10, (CLV-56660)

R/W

90° R/W

+00
90.00'

+95
90.00'

Trailer Park Under Demolition

+40
120.00'

Constr. Limits

Temp. R/W for Grading

+25
90.00'

90° R/W

+03
STR. No. 10A

90° R/W

(Horse Pasture)

T.B.M. #2
R.R Spike in S. face
of ppwp I208-159
Elev. 751.25

"Howard Excavating"

FOR STRUCTURE INFORMATION SEE CONSTRUCTION DETAILS

ALL R/W ON THIS SHEET DESCRIBED FROM LINE "D" UNLESS OTHERWISE NOTED

T.B.M. 2 - R.R. Spike Set in S. Face Powerpole #L208-15, Sta. 277+90.80, 68.97' Lt. "D" Elev. 751.265

Existing Grade Along Line "D"

Existing 3'x2' RCB, (CLV-56660)
DS Invert El. 754.16'

-0.33%

-0.40%

+50, El. 753.64

+02.80, El. 754.16

Grade Spec. "V" Ditch Req'd. Lt.

STR. No. 10, (CLV-56660)
US Invert El. 754.68'

+02.80, El. 754.71

-0.74%

-0.10%

Grade Spec. "V" Ditch Req'd. Rt.
(Plotted 10' Below Datum)

+00, El. 748.80

780 770 760 750 740 730 720

764.7 764.4 764.1 763.8 763.6 763.3 763.1 762.9 762.7 762.5 762.3 762.1 761.9 761.7 761.5 761.3 761.1 760.9 760.7 760.5 760.3 760.1 759.9 759.7 759.5 759.4 759.2 759.0 758.9 758.7 758.5 758.3 758.1 757.9 757.7 757.5 757.3 757.2 757.0 756.8 756.6 756.4 756.3 756.1 755.9 755.7 755.5 755.4 755.2 755.0 754.8 754.6 754.5 754.3 754.1 754.0 753.9 753.8 753.9 753.9 754.0

265+00 266+00 267+00 268+00 269+00 270+00 271+00 272+00 273+00 274+00 275+00 276+00 277+00 278+00 279+00 280+00

302 N: 404234.8380 E: 792447.9470
Private Lane 1553
S.R. 39 Sign Support Post
65.6' 270° Az.
Telephone Pedestal
30.7' 105.35' Az.
53.8' 180° Az.
"Bus Stop" Sign Support Post
U.S. 20 Westbound
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 269+31.66, 41.61' Lt. "D"

303 N: 404148.0180 E: 792890.9805
Mag. Nail 5" Up 24" Oak Tree
Mag. Nail In Edge Of Pavement
21.5' 225° Az.
22.7' 105° Az.
U.S. 20
0° 91.7' 270° Az.
Mag. Nail In Edge Of Pavement
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 273+81.10, 36.69' Lt. "D"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JCS DRAWN: JMT

CHECKED: JWG CHECKED: JCS

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILES

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| 1"=10' | 1702993 |
| SURVEY BOOK | SHEET |
| | 50 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS

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WILLIE HOWARD

SEC. 2, T.37N., R.3W.
SPRINGFIELD TOWNSHIP
LAPORTE COUNTY

THE WOODSEDGE COMPANY PARTNERSHIP

P.O.T. Sta. 0+00.00 "S-1-D"

P.O.T. Sta. 290+05.80 "D" =
P.O.T. Sta. 2+00.00 "S-1-D"
Monument Type B Req'd.

P.O.T. Sta. 290+06.87 "PR-D" =
P.O.T. Sta. 2+11.39 "S-1-D"
Monument Type B Req'd.

P.T. Sta. 285+87.20 "D"
Monument Type B Req'd.

Match Line - Sta. 280+00 "D"

Match Line - Sta. 295+00 "D"

285+00

290+00

295+00

App. Ex. R/W

Abandon Structure In-Place.
See Construction Details For More
Information.

Constr. Limits

U.S. 20
(Bit. Mat.)

S69°59'52"E

LINE "D"

LINE "PR-D" (To Be Constructed)

LINE "S-1-D"

N. 125 W. (Bit. Mat.)

64'-0"

8'-0"

110°-19'-07"

69°-41'-07"

90' R/W

100' R/W

+54
STR. No. 11

+03
STR. No. 12, (CLV-56661)

+96
STR. No. 13, (CLV-56662)

+55
STR. No. 14, (CLV-56663)

Temp. R/W
for Grading

+50
90.00'

+75
96.00'

+00
90.00'

+87.20
90.00'

+(+88.95)
90.00'

+90
119.28'

+25
100.00'

+70
116.00'

+Ex. R/W(+24.30)
100.00'

+Ex. R/W(+23.24)
138.00'

P.T. Sta. 286+18.28 "PR-D"
Monument Type B Req'd.

DAVID BUELL

TONYA & ANDREW
KALENOWSKY

JAMES ROTERING

T.B.M. #3
"X" Chisled in South
side conc. light base
Elev. 779.14

"Thermco"

Comm. Dr.
(Bit. Mat.)

ALL R/W ON THIS SHEET DESCRIBED FROM LINE "D"
UNLESS OTHERWISE NOTED

HAROLD & SANDRA
HENDERSON

FOR STRUCTURE INFORMATION SEE CONSTRUCTION DETAILS

SEC. 2, T.37N., R.3W.
SPRINGFIELD TOWNSHIP
LAPORTE COUNTY

P.O.T. Sta. 4+00.00 "S-1-D"

T.B.M. 3 - Chixled "X" in S. Side Conc. Light
Base, Sta. 293+57.00, 111.76' Lt. "D"
Elev. 779.164

+72.91

37.50' MGS Height Transition, Rt.

425.00' MGS W-Beam Guardrail, 6.25' Spacing, Rt.

+03.14

Curved W-Beam Terminal System, Type 3

12.50' Omitted Post Span, Rt.

50' OS End Treatment, 31", Rt.

Hand Dig Guardrail Post Holes On Either Side Of Structure

Existing Grade Along Line "D"

STR. No. 13, (CLV-56662)
DS Invert El. 756.78'
(Sumped 1.5')
US Invert El. 758.14'
(Sumped 1.5')

+45, El. 759.64

2.00%

Existing 24" VCP, (CLV-56661)
DS Invert El. 746.88'

STR. No. 12, (CLV-56661)
US Invert El. 748.45'

+03, El. 748.51

2.77%

+00, El. 756.74

2.56%

STR. No. 14, (CLV-56663)
DS Invert El. 769.26'
(Sumped 1.5')
US Invert El. 770.31'
(Sumped 1.5')

+50, El. 770.00

Grade Spec. "V" Ditch Req'd. Rt.
(Plotted 10' Below Datum)

+83, El. 771.77

1.34%

+50, El. 774.01

+75, El. 774.00

-0.90%

-2.00%

Grade Spec. "V" Ditch Req'd. Lt.

275 Sys. Ditch Sodding Req'd. Rt.

133 Sys. Ditch Sodding Req'd. Rt.

371 Sys. Ditch Sodding Req'd. Rt.

153 Sys Ditch Sodding Req'd. Rt.

321 Sys Ditch Sodding Req'd. Rt.

790
780
770
760
750
740
730

280+00 281+00 282+00 283+00 284+00 285+00 286+00 287+00 288+00 289+00 290+00 291+00 292+00 293+00 294+00 295+00

304 | N: 403978.9470 E: 793558.3260

Mag. Nail in Edge Of Pavement

Mag Nail 6' in Power Pole 1,089.158

33.7' 90° Ac.

28.1' 270° Ac.

N.W. Cor. of Conc. Headwall Around Pipe

U.S. 20

Private Witness Iron Rod Cap (Set), Flush
Sta. 280+66.77, 37.06' Lt. "D"

305 | N: 403602.5365 E: 794407.9145

U.S. 20
125 W
Sign Support

125 W, U.S. 20 Sign Support

68.30' 135° Ac.

Stop Sign Support

U.S. 20

5/8" Rebar w/ Red Cap (Set), Flush
Sta. 289+91.94, 41.86' Rt. "D"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JCS DRAWN: JMT

CHECKED: JWG CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILES

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| 1"=10' | 1702993 |
| SURVEY BOOK | SHEET |
| | 51 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS

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THE WOODSEDGE COMPANY PARTNERSHIP

SEC. 2, T.37N., R.3W.
SPRINGFIELD TOWNSHIP
LAPORTE COUNTY

SEC. 1, T.37N., R.3W.
SPRINGFIELD TOWNSHIP
LAPORTE COUNTY

STATE OF INDIANA, DNR

Match Line - Sta. 295+00 "D"

Match Line - Sta. 310+00 "D"

U.S. 20
(Bit. Mat.)

LINE "D"

S69°59'52"E

LINE "PR-D" (To Be Constructed)

App. Ex. R/W

App. Sec. Line & ℄

"Dedicated Nature Preserve Boundary"

+12
STR. No. 15

+50, "PR-D"
Structure No. 101

+20, "PR-D"
Structure No. 102

+50, "PR-D"
Structure No. 104

+00, "PR-D"
Structure No. 105

+85.1, "PR-D"
Structure No. 106

+85, 0.0' , "PR-D"
Structure No. 107

+50, "PR-D"
Structure No. 108

+20, "PR-D"
Structure No. 103

Ditch (Conc.)

Constr. Limits

Washaway Support

P.C. Sta. 302+11.90 "D"
Monument Type B Req'd.

P.C. Sta. 301+57.75 "PR-D"
Monument Type B Req'd.

Ditch (Conc, partially buried)

Evidence of buried conc.

+72
STR. No. 17

+72
STR. No. 18

54'-0"

4'-0"

CURVE DATA
P.I Sta. 309+75.15 "D"
Δ = 10°09'00" Lt.
R = 8594.36'
T = 763.25'
L = 1522.50'
E = 33.82'

CURVE DATA
P.I Sta. 309+13.57 "PR-D"
Δ = 11°39'49" Lt.
R = 7400.00'
T = 755.81'
L = 1506.40'
E = 38.50'
S.E. = 2%

P.I. Sta. 309+13.57 "PR-D"
Δ = 11°39'49" Lt.
Monument Type C Req'd.

P.I. Sta. 309+75.15 "D"
Δ = 10°09'00" Lt.
Monument Type B Req'd.

JAMES ROTERING

ALL R/W ON THIS SHEET DESCRIBED FROM LINE "D"
UNLESS OTHERWISE NOTED

R/W

+00
120.00'

+19
STR. No. 16,
(CV-020-046-49.65)

+00
150.00'

150' R/W

+17
170.00'

+℄(+77.89)
150.00'

+℄(+78.42)
170.00'

Temp. R/W
for Grading

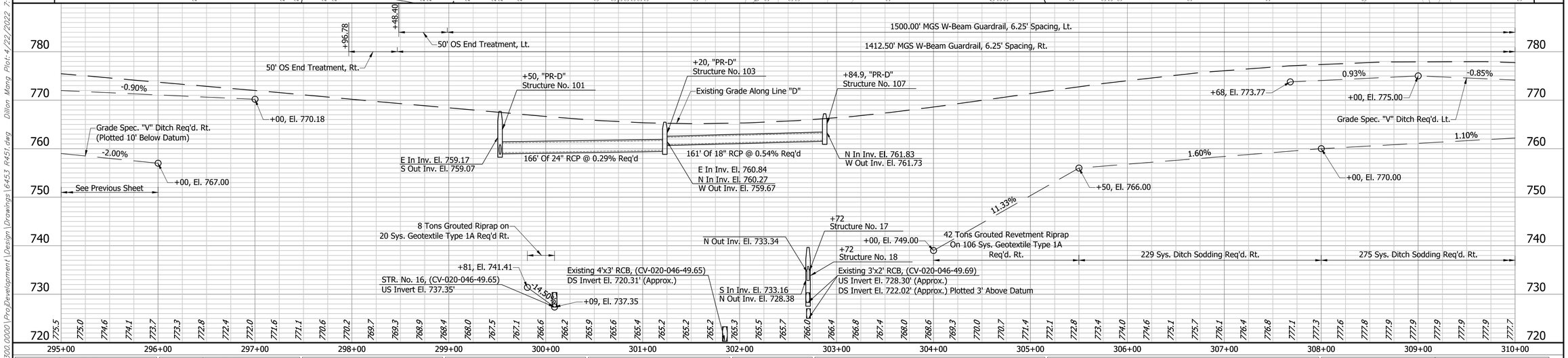
FRANK & YONG
SCHREIBER

KENNETH
VANDENBERG

ERIK
ABRAHAM

+00
Ex. R/W(145.00')

Temp. R/W
for Grading




306
N: 403379.5575
E: 795037.6485
Mag. Nail In Edge of Pavement
310° Az. Ob.
U.S. 20
Mag. Nail In N. Face of 48" Cottonwood Tree
Mag. Nail In N. Face of 6" Tree
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 296+59.96, 35.98'' Rt. "D"

307
N: 403069.6735
E: 795914.7540
U.S. 20
Mag. Nail In Edge of Pavement
Mag. Nail In N. Face of 6" Tree
Mag. Nail In N. Face of 6" Tree
Mag. Nail In Edge of Pavement
5/8" Rebarw/ Red Cap (Set), Flush
Sta. 305+88.72, 35.45'' Rt. "D"

RECOMMENDED FOR APPROVAL:
DESIGN ENGINEER DATE

DESIGNED: JCS DRAWN: JMT
CHECKED: JWG CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILES

| | |
|---|---|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| 1"=10' | 1702993 |
| SURVEY BOOK | SHEET |
| | 52 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

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PRELIMINARY PLANS

SEC. 1, T.37N., R.3W.
SPRINGFIELD TOWNSHIP
LAPORTE COUNTY

STATE OF INDIANA, DNR

ROSSBURG CEMETERY

SEVEN SPRINGS LEGACY, LLC.

20' Distribution Esmt. in Favor of Indiana Michigan Power Co. (Unable to Locate)

General Telephone Esmt. in Favor of American Telephone & Telegraph Co.

General Electric Line Esmt. in Favor of I&M Electric Co.

Match Line - Sta. 310+00 "D"

Match Line - Sta. 325+00 "D"

315+00

320+00

325+00

App. Ex. R/W

App. ℄

App. Ex. R/W

CURVE DATA
P.I Sta. 309+75.15 "D"
Δ = 10°09'00" Lt.
R = 8594.36'
T = 763.25'
L = 1522.50'
E = 33.82'

T.B.M. #4
R.R Spike in SE face
Pit1L209-236
Elev. 764.40
"Galena Marsh"

Constr. Limits

U.S. 20
(Bit. Mat.)

LINE "D"

LINE "PR-D" (To Be Constructed)

Wilhelm Rd.
(Bit. Mat.)

P.O.C. Sta. 315+00.00 "D"=
P.O.T. Sta. 3+00.00 "S-2-D"
Monument Type B Req'd.

Temp. R/W for Grading
+70
Ex. R/W(65.00')

+75
110.00'

+55
Ex. R/W(100.00')

Temp. R/W for Grading
+10
112.00'

+25
Ex. R/W(80.00')

Abandon Structure In-Place.
See Construction Details For More Information.

Constr. Limits
80' R/W

App. Ex. R/W
+Ex. R/W(+01.87)
75.00'
+55
Ex. R/W(91.20')

Ditch (Conc.)

P.T. Sta. 316+64.16 "PR-D"
Monument Type B Req'd.

P.O.T. Sta. 317+32.51 "PR-D" (Back)
P.T. Sta. 317+34.40 "D" (Ahead)
Monument Type B Req'd.

S80°08'52"E
641.0'

P.O.T. Sta. 317+35.03 "PR-D"

97°24'46"
82°35'14"
82°35'14"
97°24'46"

CURVE DATA
P.I Sta. 309+13.57 "PR-D"
Δ = 11°39'49" Lt.
R = 7400.00'
T = 755.81'
L = 1506.40'
E = 38.50'

Ditch (Conc, partially buried)

Constr. Limits

P.O.C. Sta. 314+98.31 "PR-D"=
P.O.T. Sta. 2+96.44 "S-2-D"
Monument Type B Req'd.

+50
165.00'

+75
165.00'

+65
Ex. R/W(145.00')

Temp. R/W for Grading

ERIK ABRAHAM

LINE "S-2-D"
N17°15'54"E

SEC. 1, T.37N., R.3W.
SPRINGFIELD TOWNSHIP
LAPORTE COUNTY

ALL R/W ON THIS SHEET DESCRIBED FROM LINE "D" UNLESS OTHERWISE NOTED

FOR STRUCTURE INFORMATION SEE CONSTRUCTION DETAILS

Constr. Limits

App. Ex. R/W

+85
Ex. R/W(60.00')

+76
80.00'

Temp. R/W for Drive Const.

+60
80.00'

+48
Ex. R/W(60.00')

MICHAEL & DIANA KOPCZYK
LOT 7

RICHARD MULLENHOUR
LOT 6

SUTHERLAND HOMES

App. Lot Line

PT. LOT 5

HENRY & PAMELA PENN
624 W. Hwy 20
1-Sty. Frame Hse.
PT. LOT 4

+78
Ex. R/W(60.00')

+85
67.00'

COREY LOEFFLER
PT. LOT 3

KENT JOHNSON
PT. LOT 2

+41
STR. No. 19,
(CLV-56664)

+℄(+09.58)
Ex. R/W(60.00')

+00
67.00'

Temp. R/W for Drive Const.

Constr. Limits
App. Ex. R/W

+25
Ex. R/W(60.00')

+50
68.00'

Temp. R/W for Grading
+TL(+44.52)
Ex. R/W(60.00')

+75
Ex. R/W(60.00')

554 W. Hwy 20
1-Sty., Brk. Comm. Bldg.

App. Tract Line

+90
65.00'

GRAZYNA URBANCZYK
LOT 1

U.S. 20 (Bit. Mat.)

OHE

OHE&T

FO

TV

Shldr. (Gravel)

Ditch (Conc.)

Curb & Gutter

Sidew. (Concr.)

Pvt. Dr.

Pvt. Mat.

(Wooded)

(Grass)

(Gravel)

(Bit. Mat.)

(Concr.)

(Carpeted)

(Brick)

(Stone)

(Metal)

(Frame)

(Comm. Bldg.)

(Ind. Bldg.)

(Res. Bldg.)

(Barn)

(Shed)

(Silo)

(Tank)

(Tower)

(Pole)

(Sign)

(Mailbox)

(Fence)

(Hedge)

(Tree)

(Stump)

(Rock)

(Water)

(Creek)

(Pond)

(Swamp)

(Marsh)

(Ditch)

(Culvert)

(Bridge)

(Road)

(Drive)

(Parking)

(Walk)

(Curb)

(Gutter)

(Island)

(Median)

(Shoulder)

(Lane)

(Turn Lane)

(Intersection)

(Crossing)

(Signal)

(Light)

(Utility)

(Power)

(Telephone)

(Cable TV)

(Fiber Optic)

(Gas)

(Water Main)

(Sewer)

(Storm Sewer)

(Sanitary Sewer)

(Combined Sewer)

(Force Main)

(Manhole)

(Inlet)

(Catch Basin)

(Valve)

(Hydrant)

(Meter)

(Vault)

(Transformer)

(Pedestal)

(Riser)

(Conduit)

(Duct)

(Wire)

(Cable)

(Fiber)

(Gas Line)

(Water Line)

(Sewer Line)

(Storm Line)

(Sanitary Line)

(Combined Line)

(Force Main Line)

(Manhole Line)

(Inlet Line)

(Catch Basin Line)

(Valve Line)

(Hydrant Line)

(Meter Line)

(Vault Line)

(Transformer Line)

(Pedestal Line)

(Riser Line)

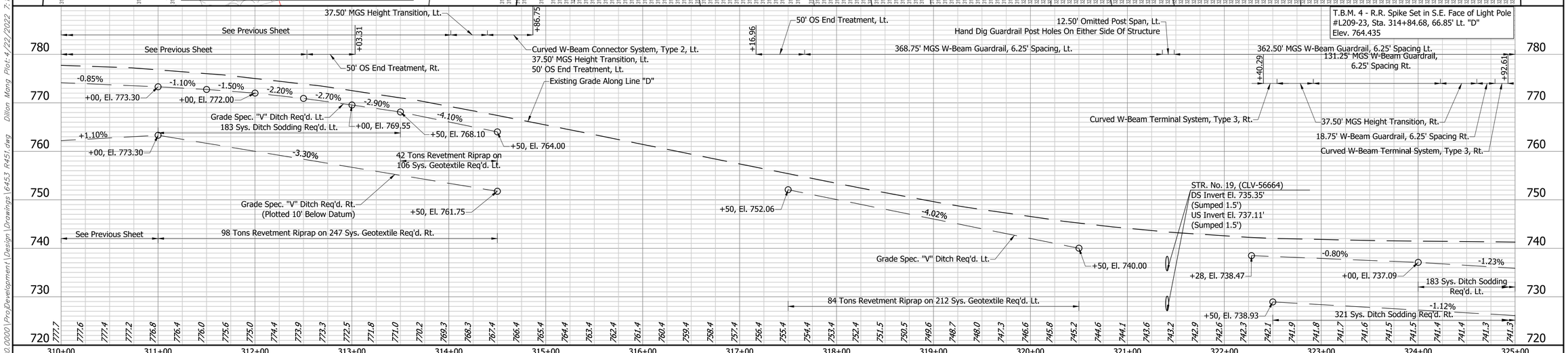
(Conduit Line)

(Duct Line)

(Wire Line)

(Cable Line)

(Fiber Line)




308
N: 402935.7035
E: 796389.6090
U.S. 20
Mag. Nail In Edge of Pavement
Sta. 307.40
Rt. 35.00
N. Post of "La Lumiere" Sign
79.9° 280° Az.
Mag. Nail In N. Face of 15" Oak Tree
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 310+80.18, 34.62' Rt. "D"

309
N: 402908.9050
E: 796872.6020
Mag. Nail In E. Face of 24" Cottonwood Tree
Power Pole Anchor Wire Base
80.1° 305° Az.
A.R. Spike in S.E. Face of Pole #L209-23
BM4
70.9'
300° Az.
Gravel Lot
U.S. 20
Mag. Nail In N. Face of Pole
Boat Spike (Set), Flush
Sta. 315+57.70, 44.81' Lt. "D"

310
N: 402706.4610
E: 797543.8940
U.S. 20
Mag Nail in Edge of Pavement
Sta. 321+50.00
Rt. 35.00
Mag Nail in N. Face of Util. Pole #L209-20
106.2'
110° Az.
Telephone Pedestal
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 322+54.66, 37.98' Rt. "D"

RECOMMENDED FOR APPROVAL:
DESIGN ENGINEER — DATE

DESIGNED: JCS — DRAWN: JMT
CHECKED: JWG — CHECKED: JCS

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILES

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| 1"=10' | 1702993 |
| SURVEY BOOK | SHEET |
| 53 | OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS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Plot: 4/22/2022 7:16 AM
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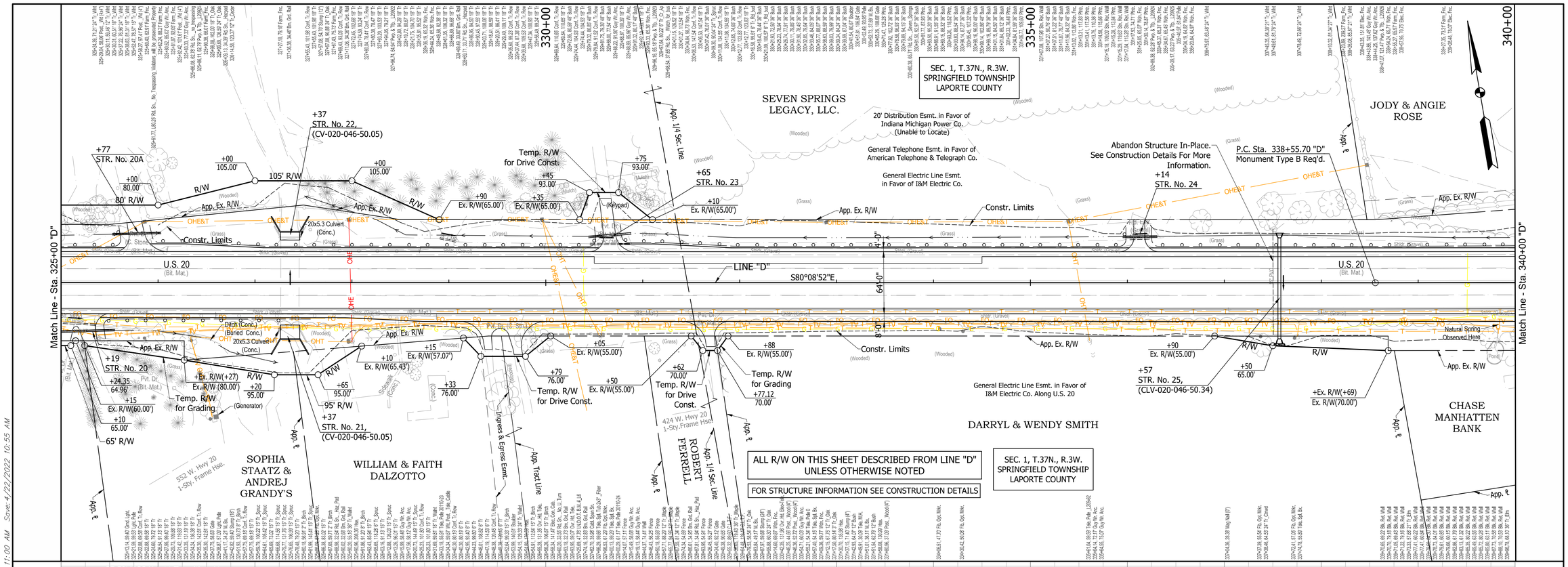


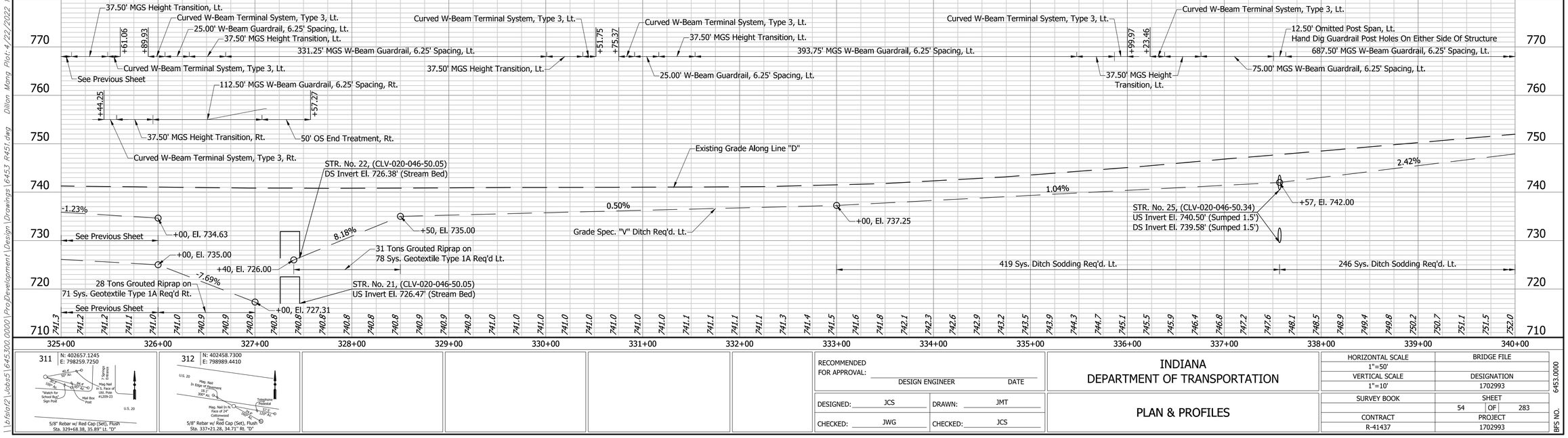








RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JCS DRAWN: JMT

CHECKED: JWG CHECKED: JCS

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILES

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| 1"=10' | 1702993 |
| SURVEY BOOK | SHEET |
| | 54 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

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# PRELIMINARY PLANS

JODY & ANGIE ROSE

20' Elec. Esmt. for I&M Power

CURVE DATA
P.I Sta. 342+55.71 "D"
Δ = 0°44'00" Lt.
R = 62504.73'
T = 400.01'
L = 800.00'
E = 1.28'

181 W. Hwy 20
1-Sty. Steel Bldg.

177 W. Hwy 20
1-Sty. Brick Hse.

20' Ingress & Egress Esmt.

App. Tract Line

SEC. 1, T.37N., R.3W.
SPRINGFIELD TOWNSHIP
LAPORTE COUNTY

T.B.M. #5
R. R Spike in surface
PJNT L209-9 N. Side
HWY US 20
Elev. 832.836

GEORGE FULTZ LIVING TRUST &
SHELBY FULTZ LIVING TRUST

THOMAS PERSCHKE, TRUSTEE

57 W. Hwy 20
1-Sty. Frame Comm. Bldg.

Temp. R/W for Drive Const.

Temp. R/W for Grading

Temp. R/W for Grading
P.C. Sta. 352+00.01 "D"
Monument Type B Req'd.

P.I. Sta. 342+55.71 "D"
Δ = 0°44'00" Lt.
Monument Type B Req'd.

Match Line - Sta. 340+00 "D"

Match Line - Sta. 355+00 "D"

U.S. 20
(Bit. Mat.)

LINE "D" S80°52'52"E

64'-0"

80' R/W

Constr. Limits

20' Elec. Esmt. for I&M Power

App. Ex. R/W

Ex. R/W(79.25')

Ex. R/W(85.84')

Ex. R/W(78.34')

STR. No. 28

Ex. R/W(71.44')

Ex. R/W(55.00')

Ex. R/W(55.00')

Ex. R/W(55.00')

Ex. R/W(55.00')

Ex. R/W(70.00')

STR. No. 26

STR. No. 27

STR. No. 29, (CLV-020-046-50.53)

STR. No. 30

STR. No. 31

STR. No. 31A

P.T. Sta. 346+55.71 "D"

CHASE MANHATTAN BANK (Wooded)
1-Sty.Frame Garage.

STEPHEN SCHACKART

RICKY & LESLIE EMERY

JOVAN SUBDIVISION

Abandon Structure In-Place.
See Construction Details For More Information.

20' Util. Esmt. in Favor of County of LaPorte, General Telephone Co., I&M Electric, NIPSCO, Etc.

General Electric Line Esmt. in Favor of I&M Electric Co. Along U.S. 20

SEC. 1, T.37N., R.3W.
SPRINGFIELD TOWNSHIP
LAPORTE COUNTY

DARRYL & WENDY SMITH

DAVID & SHERRY LYKINS

OPAL LYKINS LIFE ESTATE, ET. AL.

EMILI & EVANNA REMEDI

SEC. 12, T.37N., R.3W.
CENTER TOWNSHIP
LAPORTE COUNTY

ALL R/W ON THIS SHEET DESCRIBED FROM LINE "D" UNLESS OTHERWISE NOTED

FOR STRUCTURE INFORMATION SEE CONSTRUCTION DETAILS

202 W. Hwy 20
1-Sty.Frame Hse.

212 W. Hwy 20
1-Sty. Brick Hse.

76 W. Hwy 20
1-Sty.Frame Hse.

44 W. Hwy 20
1-Sty. Brick Hse.

44 W. Hwy 20
3-Sty. Brick Hse.

Curved W-Beam Terminal System, Type 6, Lt.

See Previous Sheet

37.50' MGS Height Transition, Lt.

+12.81

+12.12

50' OS End Treatment, Rt.

612.50' MGS W-Beam Guardrail, 6.25' Spacing, Lt.

Curved W-Beam Terminal System, Type 3, Lt.

37.50' MGS Height Transition, Lt.

+24.20

37.50' MGS Height Transition, Rt.

Curved W-Beam Terminal System, Type 6, Rt.

+23.04

+88.14

262.50' MGS W-Beam Guardrail, 6.25' Spacing, Rt.

Curved W-Beam Terminal System, Type 3, Rt.

37.50' MGS Height Transition, Rt.

T.B.M. 5 - R.R. Spike Set in S. Face Utility Pole #L2099, Sta. 347+19.71, 92.81' Lt. "D" Elev. 761.738

Existing Grade Along Line "D"

4.13%

+50, El. 778.91

+00, El. 785.10

Grade Spec. "V" Ditch Req'd. Lt.

3.34%

+00, El. 758.00

STR. No. 29, (CLV-020-046-50.53)
US Invert El. 755.82' (Inlet Depression)
DS Invert El. 754.85' (Inlet Depression)

2.00%

+54.47

150.00' MGS W-Beam Guardrail, 6.25' Spacing, Rt.

Curved W-Beam Terminal System, Type 3, Rt.

37.50' MGS Height Transition, Rt.

50' OS End Treatment, Rt.

+25, El. 748.50

435 Sys. Ditch Sodding Req'd. Lt.

3.03%

+00, El. 762.31

See Previous Sheet

+50, El. 753.65

3.50%

0.57%

1.04%

Grade Spec. "V" Ditch Req'd. Rt. (Plotted 10' Below Datum)

+60, El. 754.85

573 Sys. Ditch Sodding Req'd. Lt.

280 Tons Revetment Riprap on 706 Sys. Geotextile Req'd. Rt.

+75, El. 749.75

790 780 770 760 750 740 730

752.0 752.4 752.8 753.3 753.7 754.1 754.5 755.0 755.4 755.8 756.2 756.7 757.1 757.5 758.0 758.4 758.9 759.3 759.7 760.1 760.5 760.9 761.3 761.7 762.1 762.5 763.0 763.4 763.8 764.3 764.7 765.2 765.8 766.3 766.8 767.4 768.0 768.6 769.3 769.9 770.6 771.4 772.2 773.0 773.7 774.6 775.5 776.4 777.3 778.2 779.1 780.0 780.9 781.8 782.7 783.6 784.5 785.4 786.3 787.1 788.0

340+00 341+00 342+00 343+00 344+00 345+00 346+00 347+00 348+00 349+00 350+00 351+00 352+00 353+00 354+00 355+00

313 N: 402319.6405 E: 799780.5990

U.S. 20
Mailbox Post #202
'Mag. Nail In N. Face of Utili. Pole
34.6' 280° Az.
43.3' 147° Az.
'Mag. Nail In N. Face of Utili. Pole
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 345+24.16, 39.96' Rt. "D"

314 N: 402275.3175 E: 800607.2865

'Mag Nail in S. of 24" Hawthorn Tree
100' Az.
'Mag Nail S. Face of Utili. Pole #2099
BEL 0.7 'Mag Nail in 100° Az. S. Face of 4x4 Wood Post
U.S. 20
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 353+47.42, 47.30' Lt. "D"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JCS DRAWN: JMT

CHECKED: JWG CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILES

| | |
|---|---|
| HORIZONTAL SCALE 1"=50' | BRIDGE FILE |
| VERTICAL SCALE 1"=10' | DESIGNATION 1702993 |
| SURVEY BOOK | SHEET 55 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

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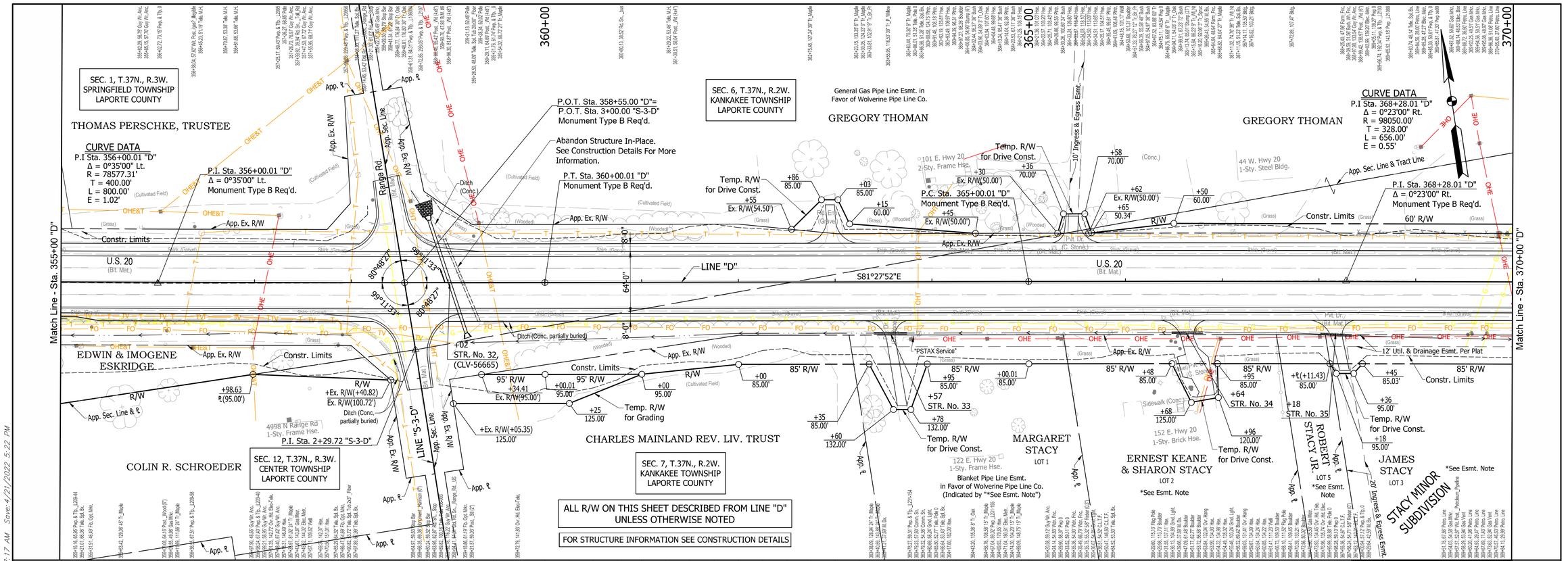
PRELIMINARY PLANS




PRELIMINARY PLANS

SEC. 6, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

SEC. 7, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

General Gas Pipe Line Esmt. in Favor of Wolverine Pipe Line Co.

KAREN STONE

GREGORY THOMAN

GROUND FORCES, INC.

Match Line - Sta. 370+00 "D"

Match Line - Sta. 385+00 "D"

App. Sec. Line & ℄

App. Sec. Line & Tract Line

App. ℄

App. Ex. R/W

60' R/W

60' R/W

85' R/W

65' R/W

70' R/W

R/W

+56 60.00'

+50 60.00'

+00 65.00'

+50 65.00'

+83 STR. No. 38

+60 75.00'

+05 75.00'

+15 Ex. R/W(65.00')

+00 70.00'

+51 STR. No. 39

+50 60.00'

+56 85.00'

+00 85.00'

+15 108.00'

+15 STR. No. 36

+06 STR. No. 37

+25 85.00'

+00 70.00'

+00 Ex. R/W(55.00')

+60 Ex. R/W(55.00')

+15 85.00'

+℄(+98.45) 70.00'

+99 105.00'

+75 70.00'

+60 85.00'

+77 105.00'

287 E. Hwy 20
2-Sty. Frame Hse.

1-Sty. Frame Garage.

355 E. Hwy 20
1-Sty. Comm. Frm. Bldg.

Pvt. Dr. (C.Stn.)

Pvt. Dr. (Old Mat'l)

Pvt. Dr. (Conc)

Constr. Limits

Temp. R/W for Drive Const.

U.S. 20
(Bit. Mat.)

LINE "D" S81°04'52"E

64'-0"

80'-0"

80'-0"

Drainage Pipe (Buried)

Gate Combination Post

T.B.M. #7
R.R Spike in Ptel at fence line, S. of Hwy W of 0356 Driveway Entrance
Elev. 791.373

P.T. Sta. 371+56.00 "D"
Monument Type B Req'd.

P.C. Sta. 376+02.30 "D"
Monument Type B Req'd.

CURVE DATA
P.I Sta. 382+16.30 "D"
Δ = 9°48'00" Lt.
R = 7162.00'
T = 614.00'
L = 1225.00'
E = 26.27'
S.E. = 2%

P.I. Sta. 382+16.30 "D"
Δ = 9°48'00" Lt.
Monument Type B Req'd.

Blanket Pipe Line Esmt. in Favor of Wolverine Pipe Line Co.

234 E. Hwy 20
2-Sty. Frm. Hse.

PHILIP & NANCY WHYBREW

TONY GRINSTON

LAND TRUST #4965

DOLORES SMEATON

422 N. Hwy 20
2-Sty. Frame Hse.

1-Sty. Blk. Comm. Bldg.

MARK & CONNIE SHERRICK

356 E. Hwy 20
1-Sty. Brk. Hse.

+℄(+39.64) 108.00'

Mag. Nail (Set), Flush
Sta. 372+61.67, 34.45'' Rt. "D"

5/8" Rebar w/ Red Cap (Set), Flush
Sta. 379+74.09, 35.86'' Rt. "D"

ALL R/W ON THIS SHEET DESCRIBED FROM LINE "D" UNLESS OTHERWISE NOTED

FOR STRUCTURE INFORMATION SEE CONSTRUCTION DETAILS

T.B.M. 7 - R.R. Spike Set in Tele. Pole, no number, Sta. 377+45.60, 54.48' Rt. "D" Elev. 791.373

Curved W-Beam Terminal System, Type 3, Lt.
50' OS End Treatment, Lt.
37.50' MGS Height Transition, Lt.
93.75' MGS W-Beam Guardrail, 6.25' Spacing, Lt.
12.50' MGS W-Beam Guardrail, 6.25' Spacing, Lt.
+69.56
+65.56
+99.64
+13.82
+00, El. 795.34
-2.81%
Grade Spec. "V" Ditch Req'd. Lt.
367 Sys Ditch Sodding Req'd. Lt.
+50, El. 785.50
-1.00%
6.00%
+50, El. 788.00
-0.33%
Existing Grade Along Line "D"
Grade Spec. "V" Ditch Req'd. Lt.
-1.84%
+25, El. 791.86
+00, El. 786.80
Grade Spec. "V" Ditch Req'd. Rt. (Plotted 10' Below Datum)
See Previous Sheet

| 317 | 318 |
|---|---|
| N: 401904.9010<br>E: 802486.7340 | N: 401802.3790<br>E: 803193.4940 |

| RECOMMENDED FOR APPROVAL: | DESIGN ENGINEER | DATE |
|---|---|---|
| DESIGNED: JCS | DRAWN: JMT | |
| CHECKED: JWG | CHECKED: JCS | |

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILES

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| 1"=10' | 1702993 |
| SURVEY BOOK | SHEET |
| | 57 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS

\\bfsfs02\Jobs5\6453.0000\ProjDevelopment\Design\Drawings\6453_R451.dwg Dillon Mang Plot: 4/22/2022 7:17 AM Save: 4/21/2022 5:22 PM

RANGEWOOD SUBDIVISION

PARK & STORMWATER RETENTION AREA
RANGEWOOD, INC.

KAREN C. ANDERTON, SOLE TRUSTEE OF THE KAREN C. ANDERTON TRUST

LOT 80

LOT 79

LOT 2

THOMAS & FRANCES MIZE
LOT 1

RANGEWOOD SUBDIVISION

PATRICK & MICHAEL WILLIAMS

SEC. 7, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

P.O.T. Sta. 395+16.17 "D" =
P.O.T. Sta. 50+00.00 "HUNTERS GLEN"
Monument Type B Req'd.

Match Line - Sta. 385+00 "D"

Match Line - Sta. 400+00 "D"

App. 1/4 Sec. Line & ℄

App. ℄

App. Lot Line

Drainage Esmt.

Temp. R/W for Drive Const.

+11 STR. No. 40

505 E. Hwy 20 1-Sty. Frame Hse.

+40 STR. No. 41, (CLV-56666)

+79 STR. No. 42

Utility Esmt.

Constr. Limits

60' R/W

70' R/W

80' R/W

65' R/W

App. Ex. R/W

App. Ex℄R/W

N. Barclay (Bit. Mat.)

"RangeWood" CR 450 E

U.S. 20
(Bit. Mat.)

LINE "D"

N89°07'08"E

90°05'28"

269°54'32"

Heavily Silted Area

Pvt. Dr. (C.Stn.)

Pvt. Dr. (Conc.)

N. Hunters Glen (Bit. Mat.)

10' T&M Esmt. Per Plat

287 E. Hwy 20 2-Sty. Frame Hse.

X Chisled in E. top of curb "Hunters Glen" Entrance Elev. 781.945

"Hunters Run"

75' Non-Access & Landscape Esmt. Per Plat

JODY KAMPF

MARK & CONNIE SHERRICK

ROBERT & NANCY STRATTON

HUNTERS RUN OUTLOT A, LLC
OUTLOT "A"

HUNTER'S RUN SECTION ONE

JUAN ARREOLA
LOT 8

LOT 9

JEFFREY GEORGE
LOT 1

SHAWN & JESSICA SCHERRERBAUM

15' T&M Esmt. Per Plat

ALL R/W ON THIS SHEET DESCRIBED FROM LINE "D" UNLESS OTHERWISE NOTED

FOR STRUCTURE INFORMATION SEE CONSTRUCTION DETAILS

T.B.M. 8 - Chisled X in E. Top of Curb "Hunters Glen Entrance" Sta. 395+08.45, 67.74' Rt. "D" Elev. 781.945

50' OS End Treatment, Lt.

37.50' MGS Height Transition, Lt.

25.00' MGS W-Beam Guardrail, 6.25' Spacing, Lt.

Curved W-Beam Terminal System, Type 3, Lt.

281.25' MGS W-Beam Guardrail, 6.25' Spacing, Lt.

Existing Grade Along Line "D"

STR. No. 41, (CLV-56666)
US Invert El.:
775.69'

+50, El. 777.40

-0.59%

+39, El. 775.70

0.78%

Grade Spec. "V" Ditch Req'd. Lt.

+00, El. 777.74

1.55%

+00, El. 782.40

0.84%

2.81%

1.66%

+50, El. 784.86

870 Sys. Ditch Sodding Req'd. Lt.

Existing 30" RCP, (CLV-56666)
DS Invert El.:
774.16'

50' OS End Treatment, Rt.

156.25' MGS W-Beam Guardrail, 6.25' Spacing, Rt.

Curved W-Beam Terminal System, Type 3, Rt.

37.50' MGS Height Transition, Rt.

6.25' MGS W-Beam Guardrail, 6.25' Spacing, Rt.

12.50' Omitted Post Span, Rt.

Hand Dig Guardrail Post Holes On Either Side Of Structure

800 790 780 770 760 750 740

385+00 386+00 387+00 388+00 389+00 390+00 391+00 392+00 393+00 394+00 395+00 396+00 397+00 398+00 399+00 400+00

319 N: 401764.3450 E: 803835.6015

5/8" Rebar w/ Red Cap (Set), Flush
Sta. 386+14.33, 35.91' Rt. "D"

320 N: 401840.0545 E: 804595.5045

5/8" Rebar w/ Red Cap (Set), Flush
Sta. 393+74.27, 31.27' Lt. "D"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JCS DRAWN: JMT

CHECKED: JWG CHECKED: JCS

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILES

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| 1"=10' | 1702993 |
| SURVEY BOOK | SHEET |
| | 58 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS

\\Dfs1a\2\Jobs\645300.0000\ProDevelopment\Design\Drawings\6453_R451.dwg Dillon Mong Plot:4/22/2022 7:17 AM Save:4/21/2022 5:22 PM

ALL R/W ON THIS SHEET DESCRIBED FROM LINE "D" UNLESS OTHERWISE NOTED

FOR STRUCTURE INFORMATION SEE CONSTRUCTION DETAILS

Match Line - Sta. 400+00 "D"

Match Line - Sta. 415+00 "D"

PATRICK & MICHAEL WILLIAMS

SEC. 7, T.37N., R.2W. KANKAKEE TOWNSHIP LAPORTE COUNTY

STEVEN & MARY SCHAUB

GEORGE CYR

SEC. 8, T.37N., R.2W. KANKAKEE TOWNSHIP LAPORTE COUNTY

DAVID BUEHRER

SEC. 8, T.37N., R.2W. KANKAKEE TOWNSHIP LAPORTE COUNTY

ROBERT LANTERO & DAWN ZEMAN

SEC. 7, T.37N., R.2W. KANKAKEE TOWNSHIP LAPORTE COUNTY

DYLAN & COLLEEN CABANAW
LOT 10

JUSTIN MILCAREK
LOT 11

HUNTER'S RUN SECTION ONE

LOT 12

KEVIN & LAURA KALK
LOT 13

KELSEN & ALYSON DEPP
LOT 14

P.C. Sta. 406+70.01 "D"
Monument Type B Req'd.

P.O.T. Sta. 6+00.00 "S-4-D"

LIMITS TO BE CONSTRUCTED IN PROJECT DES. NO. 1900050

END PROJECT
P.O.T. Sta. 407+41.72 "D"
Monument Type B Req'd.

P.O.C. Sta. 411+70.02 "D" =
P.O.T. Sta. 3+50.00 "S-4-D"

P.I. Sta. 411+70.02 "D"
Δ = 0°44'00" Rt.
1011 Hwy 20
2-Sty. Frame Hse.

CURVE DATA
P.I Sta. 411+70.02 "D"
Δ = 0°44'00" Rt.
R = 78130.62'
T = 500.01'
L = 1000.00'
E = 1.60'

N00°59'52"W

N00°59'52"W

LINE "S-4-D"

N. Fail Rd.

U.S. 20 (Bit. Mat.)

LINE "D"

N89°07'08"E

89°53'30"

90°51'14"

90°17'0"

89°58'56"

App. Ex. R/W

App. Sec. Line

App. ℄

Temp. R/W for Grading
65' R/W
Constr. Limits

App. Tract Line

Steel Shed

+℄(+73.97)
65.00'

+℄(+74.01)
56.00'

+TL(+33.94)
72.00'

Temp. R/W for Grading
+86
Ex. R/W(50.00')

+31
65.00'

+45
STR. No. 43

+00
72.00'

64'-0"

8'-0"

75' Non-Access & Landscape Esmt. Per Plat

Util. Esmt. in Favor of GTE North, Inc.

"Heston Supply"

OHE

OHE&T

Children's Playground

Gravel

Wooded

Grass

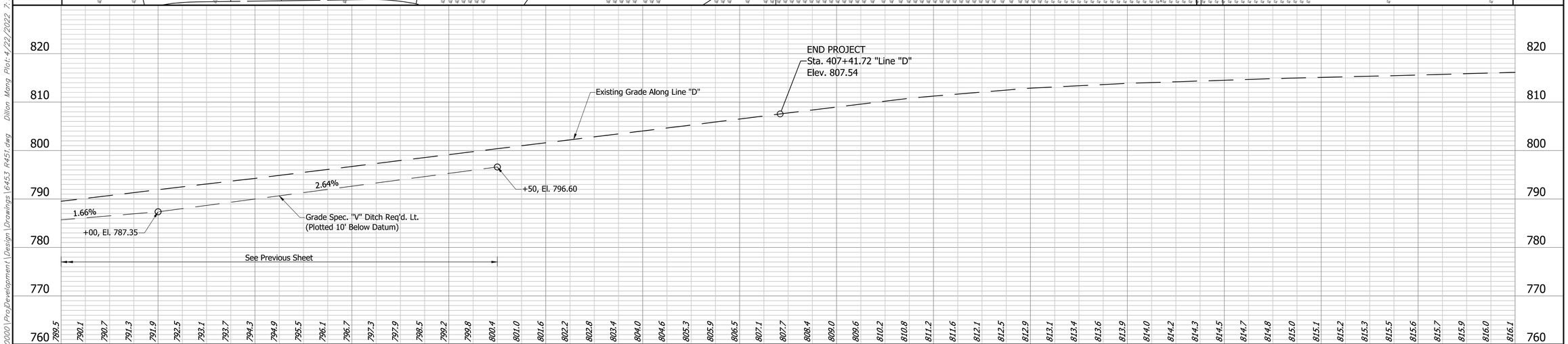
Pvt. Dr. (C.Stn.)

Pvt. Ent.

TV

FO

T




321 N: 401781.1770 E: 805286.1600

Mag Nail (Set), Flush
Sta. 400+63.93, 38.22'" Rt. "D"

322 N: 401782.2255 E: 805862.662

Mag. Nail (Set), Flush
Sta. 406+40.38, 46.04" Rt. "D"

323 N: 401781.5230 E: 806335.8865

Mag. Nail (Set), Flush
Sta. 411+13.84, 52.76"' Rt. "D"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JCS DRAWN: JMT

CHECKED: JWG CHECKED: JCS

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN & PROFILES

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| 1"=10' | 1702993 |
| SURVEY BOOK | SHEET |
| | 59 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

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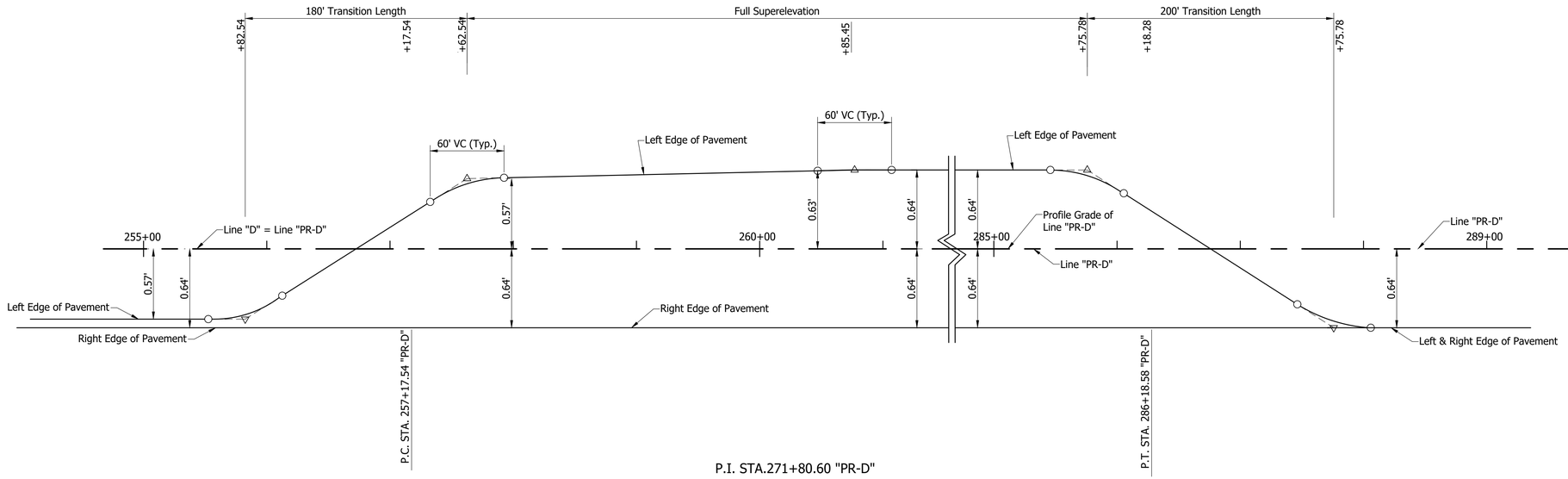
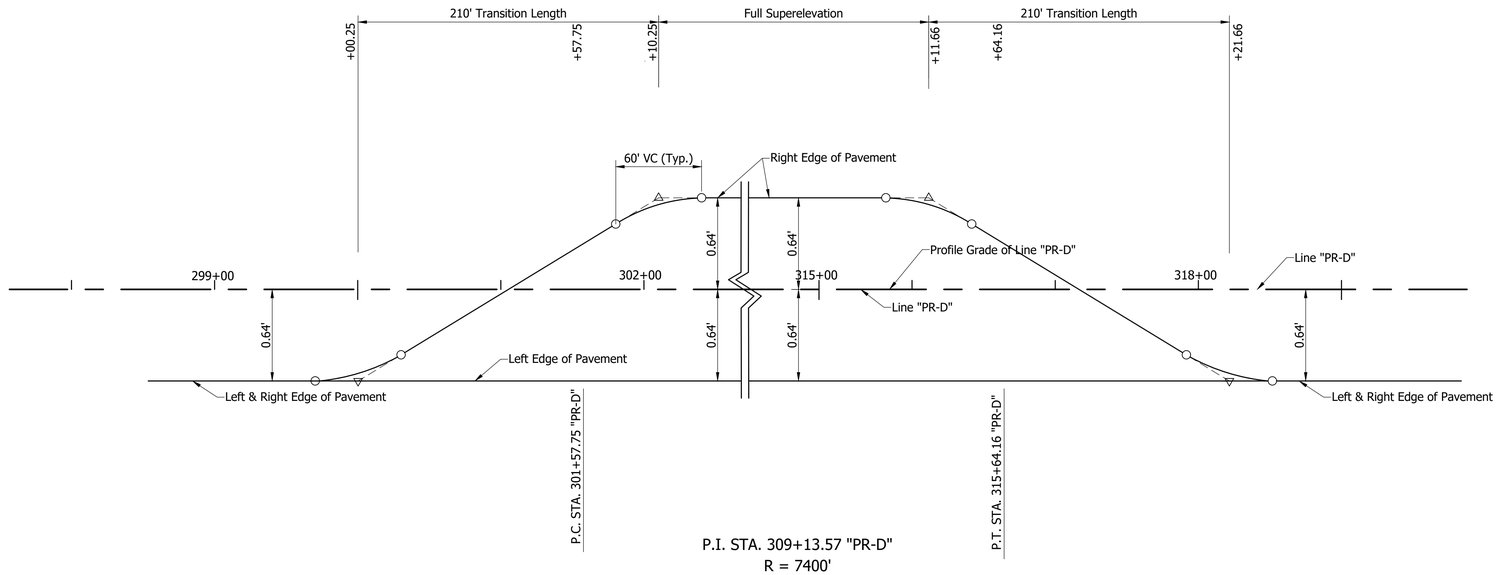
PRELIMINARY PLANS




P.I. STA.271+80.60 "PR-D"
R = 9000'
e = 2%

DESIGN SPEED 55 MPH




P.I. STA. 309+13.57 "PR-D"
R = 7400'
e = 2%

DESIGN SPEED 55 MPH

| | | | | |
|---|---|---|---|---|
| | RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE | | INDIANA DEPARTMENT OF TRANSPORTATION | HORIZONTAL SCALE: 1"=50' / VERTICAL SCALE: 1"=5' / BRIDGE FILE: / DESIGNATION: 1702993 |
| | DESIGNED: JWG | DRAWN: BKM | SUPERELEVATION DIAGRAM | SURVEY BOOK: 60 OF 283 |
| | CHECKED: JCS | CHECKED: JWG | | CONTRACT: R-41437 / PROJECT: 1702993 |

BFS NO. 6453.0000

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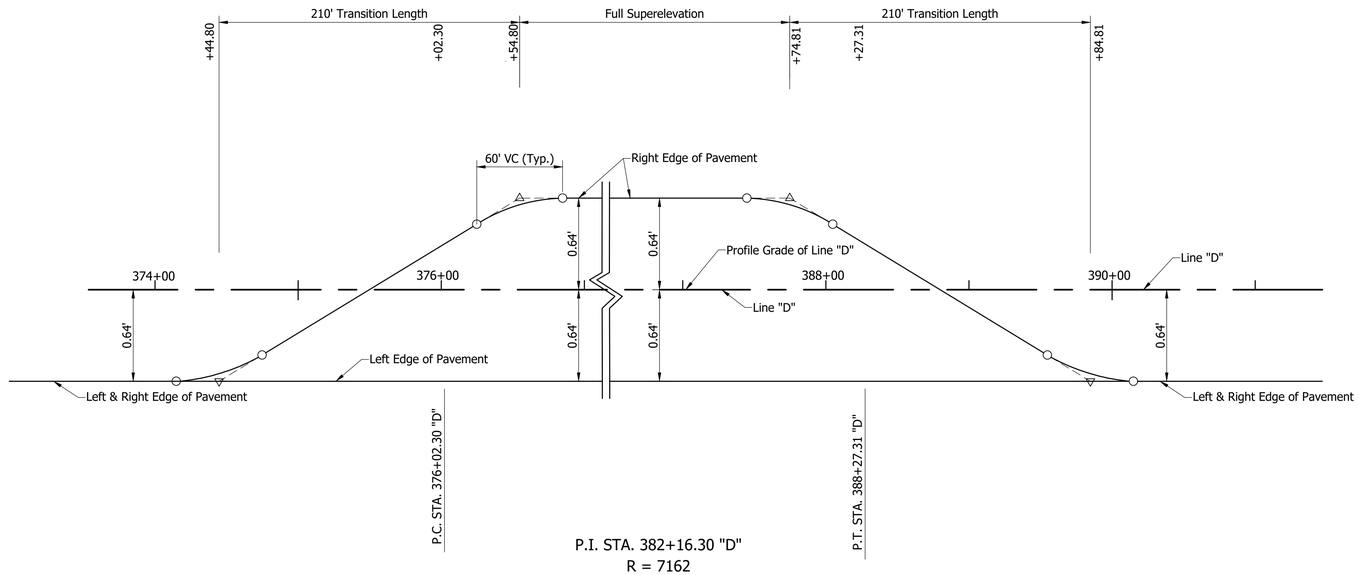
PRELIMINARY PLANS




P.I. STA. 382+16.30 "D"
R = 7162
e = 2%

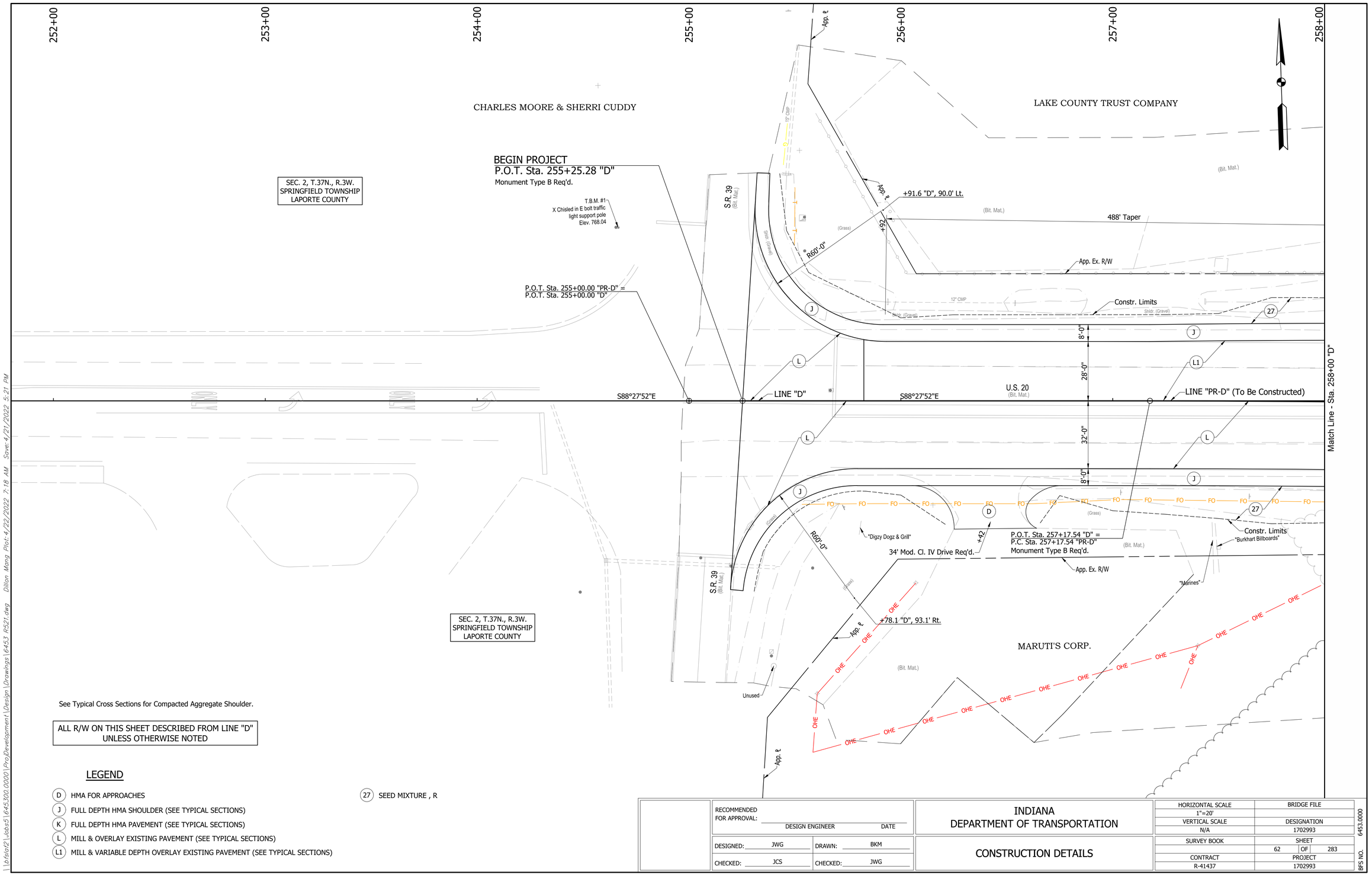
DESIGN SPEED 55 MPH

| | | | | |
|---|---|---|---|---|
| | RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE | INDIANA DEPARTMENT OF TRANSPORTATION | HORIZONTAL SCALE 1"=50' | BRIDGE FILE |
| | | | VERTICAL SCALE 1"=5' | DESIGNATION 1702993 |
| | DESIGNED: JWG DRAWN: BKM | SUPELEVATION DIAGRAM | SURVEY BOOK | SHEET 61 OF 283 |
| | CHECKED: JCS CHECKED: JWG | | CONTRACT R-41437 | PROJECT 1702993 |

BFS NO. 6453.0000

\\bfsfol2\Jobs5\6453.0000\ProjDevelopment\Design\Drawings\6453_R501.dwg Dillon Marg Plot: 4/22/2022 7:17 AM Save: 4/19/2022 11:18 AM

PRELIMINARY PLANS




See Typical Cross Sections for Compacted Aggregate Shoulder.

ALL R/W ON THIS SHEET DESCRIBED FROM LINE "D" UNLESS OTHERWISE NOTED

## LEGEND

- (D) HMA FOR APPROACHES
- (J) FULL DEPTH HMA SHOULDER (SEE TYPICAL SECTIONS)
- (K) FULL DEPTH HMA PAVEMENT (SEE TYPICAL SECTIONS)
- (L) MILL & OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
- (L1) MILL & VARIABLE DEPTH OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
- (27) SEED MIXTURE , R

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JWG | DRAWN: BKM

CHECKED: JCS | CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=20' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 62 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

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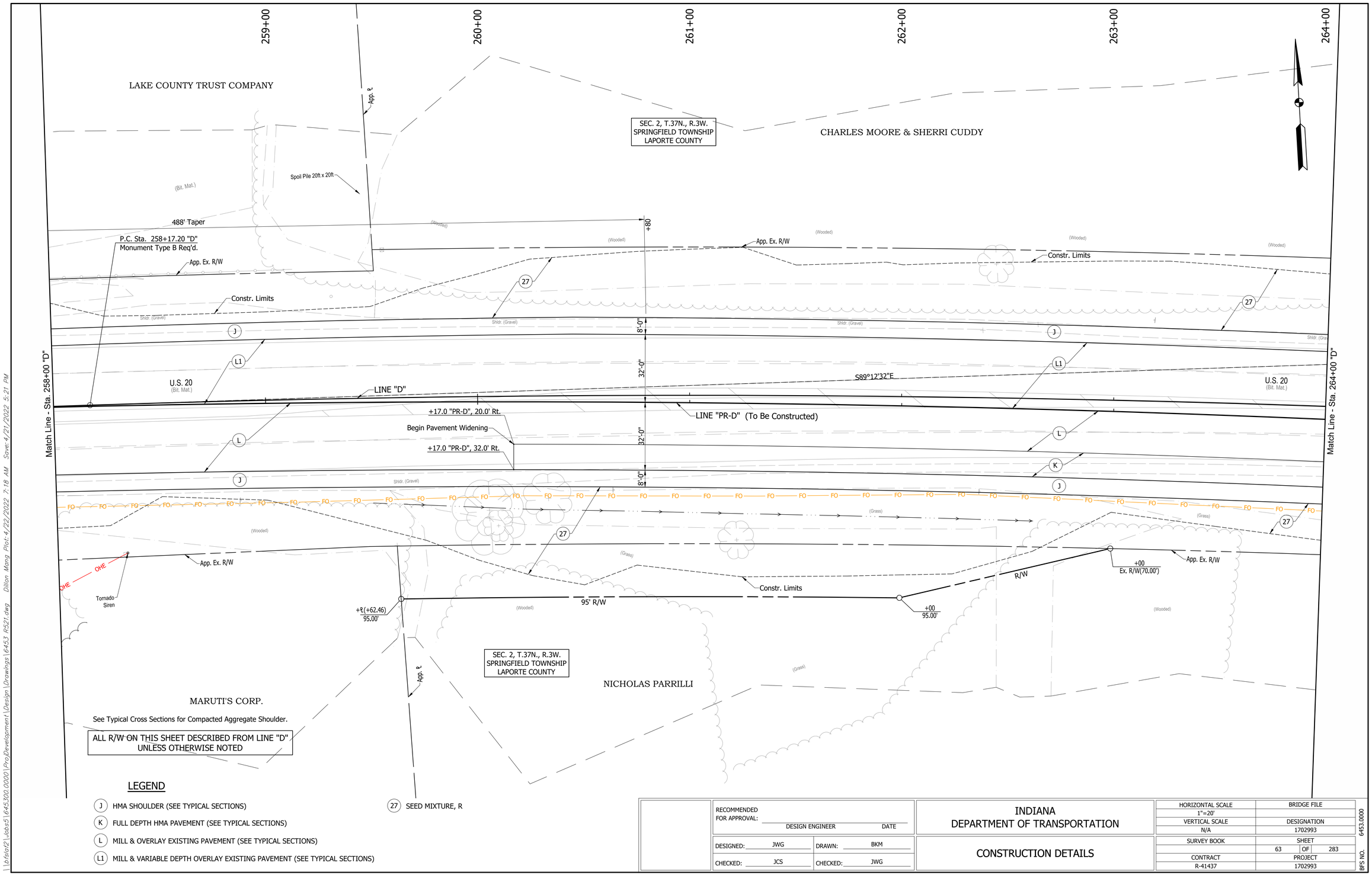
PRELIMINARY PLANS




RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JWG DRAWN: BKM

CHECKED: JCS CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=20' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 63 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

\\bfsfol2\Jobs5\6453.0000\ProjDevelopment\Design\Drawings\6453 R521.dwg Dillon Mang Plot: 4/22/2022 7:18 AM Save: 4/21/2022 5:21 PM

PRELIMINARY PLANS

265+00 | 266+00 | 267+00 | 268+00 | 269+00 | 270+00

CHARLES MOORE & SHERRI CUDDY

SEC. 2, T.37N., R.3W.
SPRINGFIELD TOWNSHIP
LAPORTE COUNTY

8' Mod. Cl. II Drive Req'd.
+18

App. Ex. R/W
Constr. Limits
S88°27'52"E

(Wooded) (Grass) (Shldr. (Gravel)) 18" CMP Pvt. Dr. (C-Stk)

27 J L1 L K D

U.S. 20
(Bit. Mat.)

8'-0" 32'-0" 8'-0"

LINE "D"
LINE "PR-D" (To Be Constructed)
+25.0 "PR-D", 15.0' Rt.
+25.0 "PR-D", 20.0' Rt.

FO

Match Line - Sta. 264+00 "D"
Match Line - Sta. 270+00 "D"

+00
Ex. R/W(70.00')
+28
R/W
+00
90.00'
16' Cl. II Drive Req'd.

OHE

See Typical Cross Sections for Compacted Aggregate Shoulder.

ALL R/W ON THIS SHEET DESCRIBED FROM LINE "D" UNLESS OTHERWISE NOTED

NICHOLAS PARRILLI

SEC. 2, T.37N., R.3W.
SPRINGFIELD TOWNSHIP
LAPORTE COUNTY

## LEGEND

- (D) HMA FOR APPROACHES
- (J) HMA SHOULDER (SEE TYPICAL SECTIONS)
- (K) FULL DEPTH HMA PAVEMENT (SEE TYPICAL SECTIONS)
- (L) MILL & OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
- (L1) MILL & VARIABLE DEPTH OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
- (27) SEED MIXTURE, R

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JWG | DRAWN: BKM
CHECKED: JCS | CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

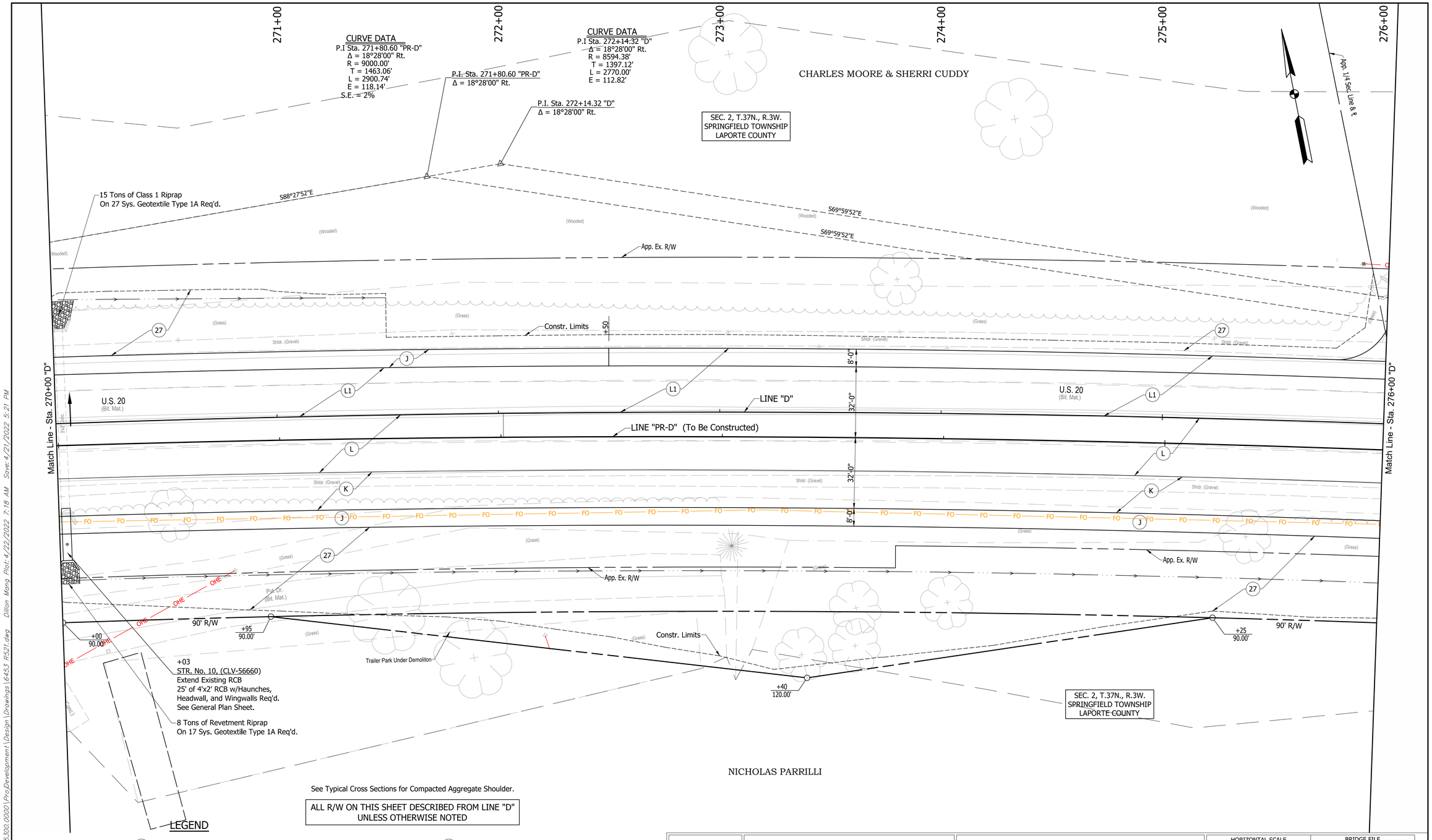
CONSTRUCTION DETAILS

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=20' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 64 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS

\\bfs\f2\Jobs5\6453.00\0000\ProjDevelopment\Design\Drawings\6453_R521.dwg Dillon Mang Plot:4/22/2022 7:18 AM Save:4/21/2022 5:21 PM




See Typical Cross Sections for Compacted Aggregate Shoulder.

ALL R/W ON THIS SHEET DESCRIBED FROM LINE "D" UNLESS OTHERWISE NOTED

## LEGEND

- (J) HMA SHOULDER (SEE TYPICAL SECTIONS)
- (K) FULL DEPTH HMA PAVEMENT (SEE TYPICAL SECTIONS)
- (L) MILL & OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
- (L1) MILL & VARIABLE DEPTH OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
- (27) SEED MIXTURE, R

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JWG DRAWN: BKM

CHECKED: JCS CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

| | |
|---|---|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=20' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 65 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

Save: 4/21/2022 5:21 PM Dillon Mong Plot: 4/22/2022 7:18 AM \\bfsfs2\Jobs\645300.0000\ProjDevelopment\Design\Drawings\6453 R521.dwg

# PRELIMINARY PLANS

277+00
278+00
279+00
280+00
281+00
282+00

WILLIE HOWARD

SEC. 2, T.37N., R.3W.
SPRINGFIELD TOWNSHIP
LAPORTE COUNTY

App. Tract Line

WILLIE HOWARD

(Woodes)

(Grass)

"Howard Excavating"

+10
15' Cl. V Drive Req'd.

App. Ex. R/W

T.B.M. #2
R.R Spike in S. face
of ppwp I208-159
Elev. 751.25

+07
18' Mod. Cl. IV Drive Req'd.

12 Tons of Class 1 Riprap
On 22 Sys. Geotextile Type 1A Req'd.

App. Ex. R/W

OHE

3'x2' Conc.

Fnd. Entr. (Gravel)

Comm. Dr. (Bit. Mat.)

Constr. Limits

S69°59'52"E

S69°59'52"E

Match Line - Sta. 276+00 "D"

Match Line - Sta. 282+00 "D"

8'-0"
32'-0"
8'-0"

U.S. 20
(Bit. Mat.)

LINE "D"

LINE "PR-D" (To Be Constructed)

Remove Existing Headwall Prior
To Extending Structure

Shldr. (Gravel)

FO

Pvt. Dr. (Bit. Mat.)

App. Ex. R/W

Constr. Limits

"Suncatchers
Paintings by Chrissy"

90' R/W

+60
10' Mod. Cl. II Drive Req'd.

+60
STR. No. 10A
44' of 15" Pipe w/
2 P.E.S. Req'd.

+03
STR. No. 12, (CLV-56661)
Extend Existing VCP
25' of 24" VCP w/ 1 P.E.S. Req'd.

+52
16' Cl. II Drive Req'd.

+52
STR. No. 11
52' of 15" Pipe w/
2 P.E.S. Req'd.

90' R/W

(Horse Pasture)

HAROLD & SANDRA
HENDERSON

MICHAEL & CHRISTINE HICKS

App. 1/4 Sec. Line & ℄

App. Tract Line

App. ℄

See Typical Cross Sections for Compacted Aggregate Shoulder.

ALL R/W ON THIS SHEET DESCRIBED FROM LINE "D"
UNLESS OTHERWISE NOTED

## LEGEND

- (D) HMA FOR APPROACHES
- (J) HMA SHOULDER (SEE TYPICAL SECTIONS)
- (K) FULL DEPTH HMA PAVEMENT (SEE TYPICAL SECTIONS)
- (L) MILL & OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
- (L1) MILL & VARIABLE DEPTH OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
- (O) COMPACTED AGGREGATE NO. 53

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JWG | DRAWN: BKM

CHECKED: JCS | CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=20' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 66 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

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PRELIMINARY PLANS

283+00 | 284+00 | 285+00 | 286+00 | 287+00 | 288+00

WILLIE HOWARD

SEC. 2, T.37N., R.3W.
SPRINGFIELD TOWNSHIP
LAPORTE COUNTY

(Grass)

15' Cl. V Drive Req'd.

+34

App. Ex. R/W

OHE

Fld. Entr. (Gravel)

18" CMP

20 Tons of Revetment Riprap
On 38 Sys. Geotextile Type 1A Req'd.

P.T. Sta. 285+87.20 "D"
Monument Type B Req'd.

Constr. Limits

+00

Shldr. (Gravel)

27

O

J

8'-0"

32'-0"

Match Line - Sta. 282+00 "D"

U.S. 20
(Bit. Mat.)

L1

+96
STR. No. 13, (CLV-56662)
130' of 36" Trenchless Pipe
w/ 1.5' Sump & 2 P.E.S. Req'd.

S69°59'52"E

LINE "D"

LINE "PR-D" (To Be Constructed)

Match Line - Sta. 288+00 "D"

L

K

Grout & Fill Existing Structure
With Non-Removable Flowable
Backfill, Abandon In-Place.

FO

Guardrail Req'd. See Plan & Profiles for Details

Constr. Limits

App. Ex. R/W

90' R/W

+50
90.00'

+75
96.00'

Temp. R/W
for Grading

+00
90.00'

+87.20
90.00'

+℄(+88.95)
90.00'

P.T. Sta. 286+18.28 "PR-D"=
P.O.T. Sta. 286+21.2 "D", 10.7' Rt.
Monument Type B Req'd.

HAROLD & SANDRA HENDERSON

SEC. 2, T.37N., R.3W.
SPRINGFIELD TOWNSHIP
LAPORTE COUNTY

DAVID BUELL

See Typical Cross Sections for Compacted Aggregate Shoulder.

ALL R/W ON THIS SHEET DESCRIBED FROM LINE "D"
UNLESS OTHERWISE NOTED

## LEGEND

- (J) HMA SHOULDER (SEE TYPICAL SECTIONS)
- (K) FULL DEPTH HMA PAVEMENT (SEE TYPICAL SECTIONS)
- (L) MILL & OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
- (L1) MILL & VARIABLE DEPTH OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
- (O) COMPACTED AGGREGATE NO. 53
- (27) SEED MIXTURE, R

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JWG | DRAWN: BKM | CHECKED: JCS | CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=20' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 67 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

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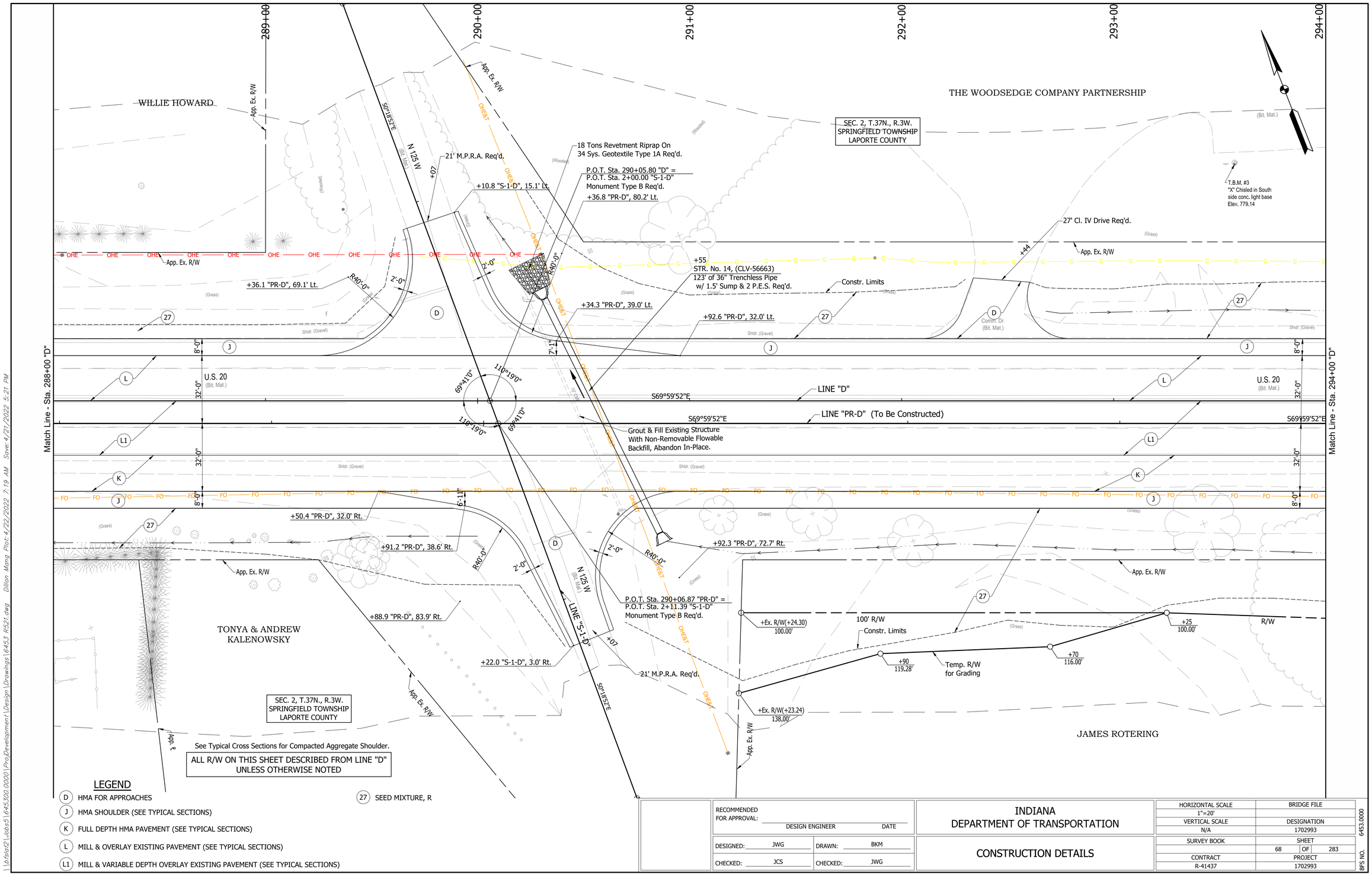
PRELIMINARY PLANS




PRELIMINARY PLANS

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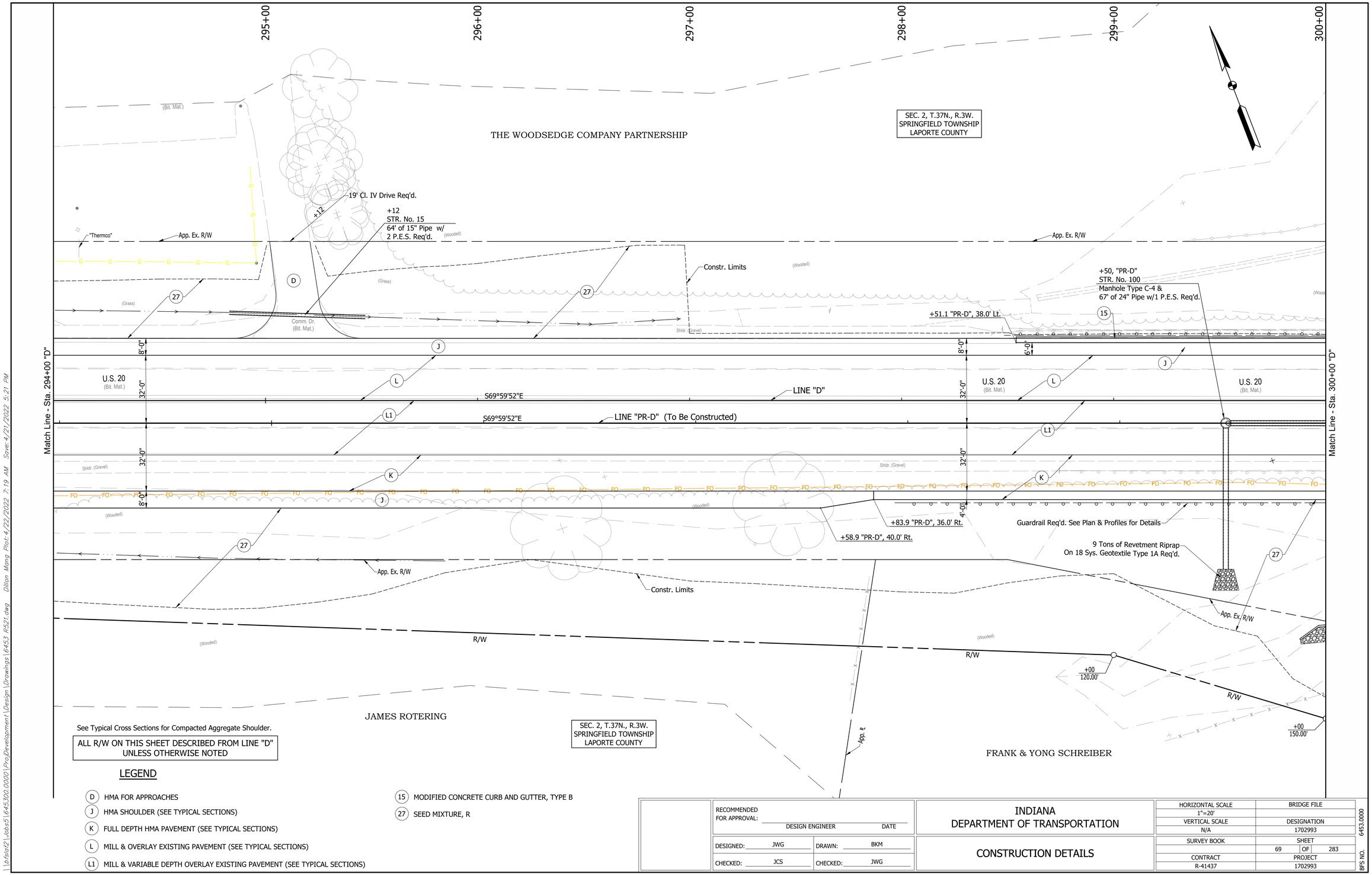


See Typical Cross Sections for Compacted Aggregate Shoulder.

ALL R/W ON THIS SHEET DESCRIBED FROM LINE "D" UNLESS OTHERWISE NOTED

## LEGEND

- (D) HMA FOR APPROACHES
- (J) HMA SHOULDER (SEE TYPICAL SECTIONS)
- (K) FULL DEPTH HMA PAVEMENT (SEE TYPICAL SECTIONS)
- (L) MILL & OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
- (L1) MILL & VARIABLE DEPTH OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
- (15) MODIFIED CONCRETE CURB AND GUTTER, TYPE B
- (27) SEED MIXTURE, R

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JWG | DRAWN: BKM

CHECKED: JCS | CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

| | |
|---|---|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=20' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 69 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS

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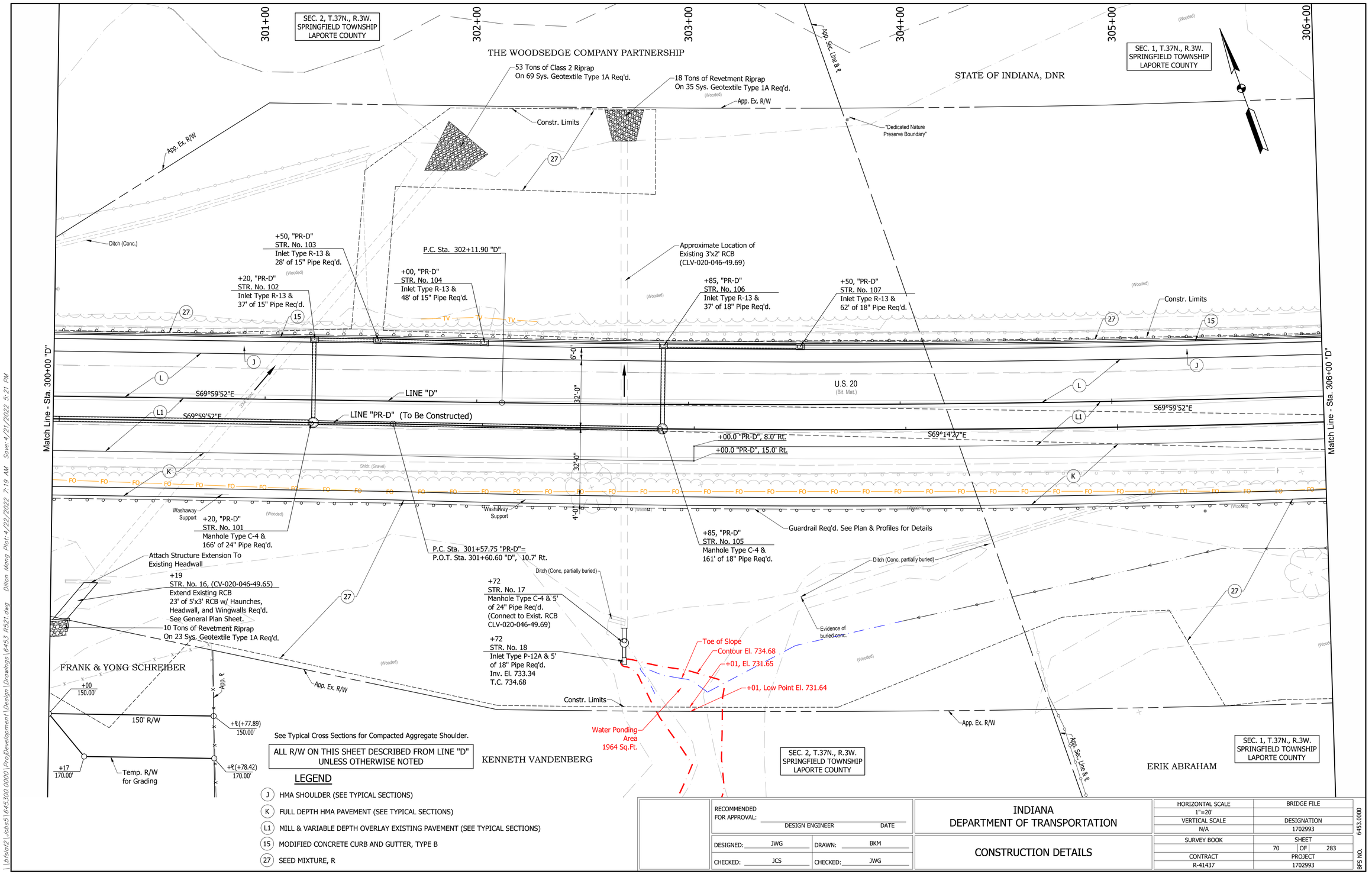
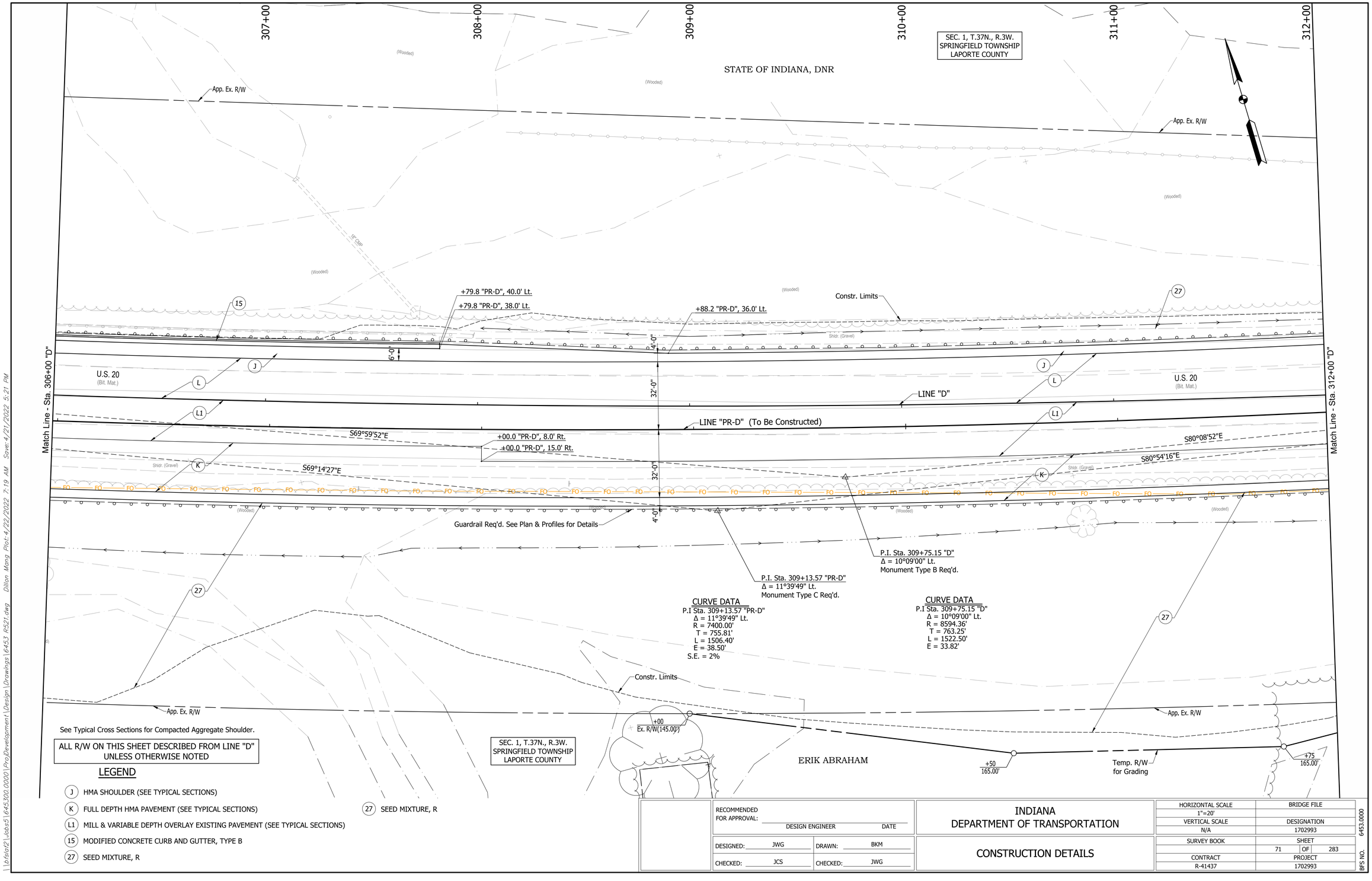
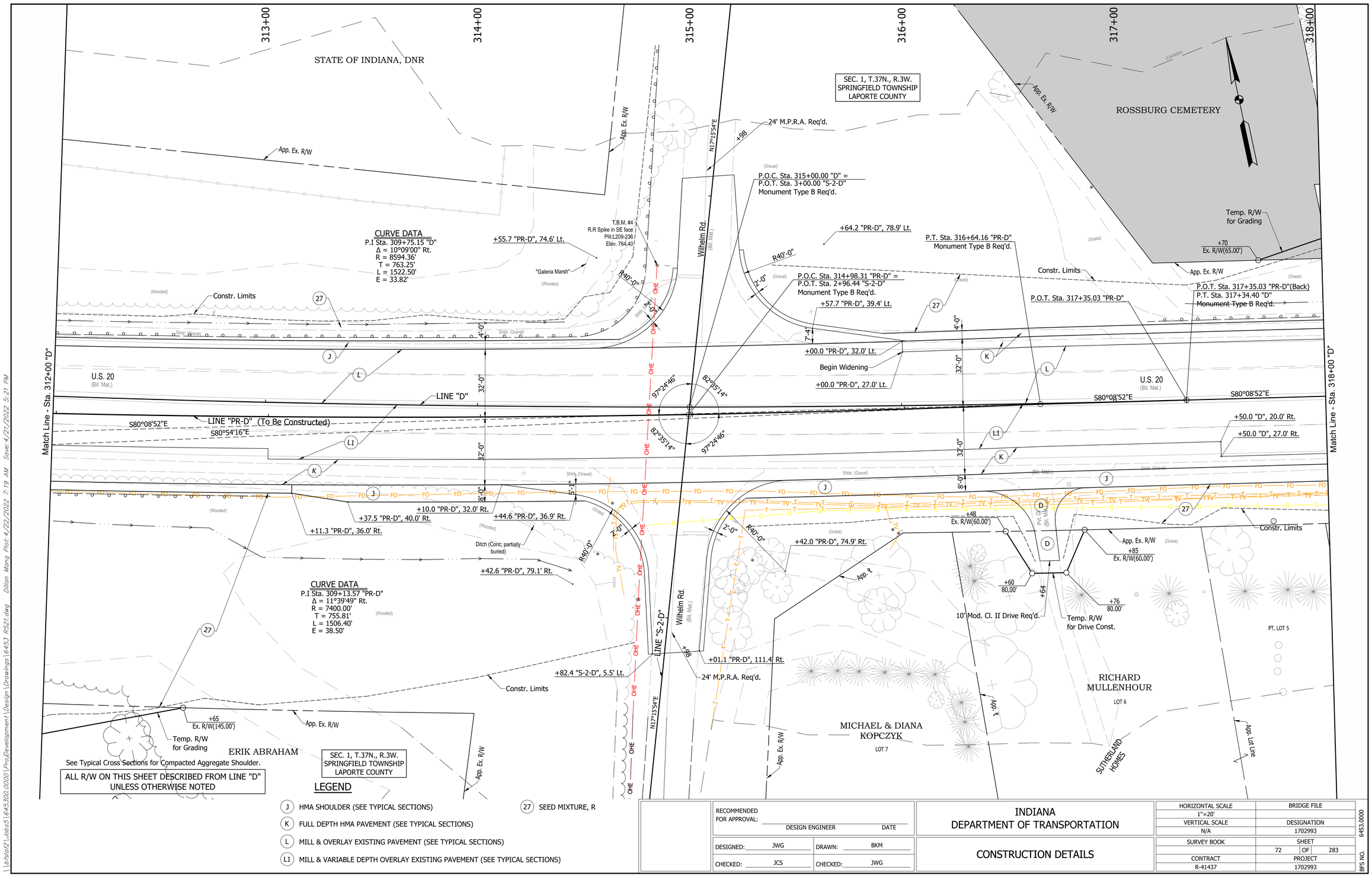



PRELIMINARY PLANS




# PRELIMINARY PLANS




RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JWG DRAWN: BKM

CHECKED: JCS CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=20' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 72 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

# PRELIMINARY PLANS

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319+00 320+00 321+00 322+00 323+00 324+00

20' Distribution Esmt. in Favor of Indiana Michigan Power Co. (Unable to Locate)

General Telephone Esmt. in Favor of American Telephone & Telegraph Co.

General Electric Line Esmt. in Favor of I&M Electric Co.

SEVEN SPRINGS LEGACY, LLC.

SEC. 1, T.37N., R.3W. SPRINGFIELD TOWNSHIP LAPORTE COUNTY

App. 2

+75 110.00'

Temp. R/W for Grading

+10 112.00'

App. Ex. R/W

+55 Ex. R/W(100.00')

+Ex. R/W(+01.87) 75.00'

+55 Ex. R/W(91.20')

App. Ex. R/W

+25 Ex. R/W(80.00')

80' R/W

18 Tons of Revetment Riprap On 34 Sys. Geotextile Req'd.

Constr. Limits

App. Ex. R/W

(Wooded)

Guardrail Req'd. See Plan & Profiles for Details

Ditch (Conc.)

(Grass)

Shldr. (Gravel)

4'-0"

32'-0"

8'-0"

U.S. 20 (Bit. Mat.)

S80°08'52"E

LINE "D"

Grout & Fill Existing Structure With Non-Removable Flowable Backfill, Abandon In-Place.

15° Rt.

+80.5 "D", 36.0' Rt.

Match Line - Sta. 318+00 "D"

Match Line - Sta. 324+00 "D"

Pvt. Dr. (Bit. Mat.)

FO T TV G

+14

11' Mod. Cl. II Drive Req'd.

12" HDPE

+78 Ex. R/W(60.00')

+85 67.00'

10' Mod. Cl. II Drive Req'd.

+91

+℄(+09.58) Ex. R/W(60.00')

+00 67.00'

Temp. R/W for Drive Const.

Constr. Limits

+41 (Grass)

STR. No. 19, (CLV-56664) 106' of 36" Trenchless Pipe w/ 1.0' Sump, 1 P.E.S. & 1 S.M.E.S. Req'd.

9' Mod. Cl. II Drive Req'd.

+28

+25 Ex. R/W(60.00')

+50 68.00'

OHE&T

OHE

PT. LOT 5

HENRY & PAMELA PENN

PT. LOT 4

App. Lot Line

PT. LOT 3

SUTHERLAND HOMES

COREY LOEFFLER

PT. LOT 3

SEC. 1, T.37N., R.3W. SPRINGFIELD TOWNSHIP LAPORTE COUNTY

KENT JOHNSON

PT. LOT 2

LOT 1

GRAZYNA URBANCZYK

624 W. Hwy 20 1-Sty. Frame Hse.

See Typical Cross Sections for Compacted Aggregate Shoulder.

ALL R/W ON THIS SHEET DESCRIBED FROM LINE "D" UNLESS OTHERWISE NOTED

## LEGEND

- (D) HMA FOR APPROACHES
- (J) HMA SHOULDER (SEE TYPICAL SECTIONS)
- (K) FULL DEPTH HMA PAVEMENT (SEE TYPICAL SECTIONS)
- (L) MILL & OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
- (L1) MILL & VARIABLE DEPTH OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
- (27) SEED MIXTURE, R

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JWG DRAWN: BKM

CHECKED: JCS CHECKED: JWG

INDIANA DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

| | |
|---|---|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=20' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 73 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

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PRELIMINARY PLANS

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325+00 | 326+00 | 327+00 | 328+00 | 329+00 | 330+00

Match Line - Sta. 324+00 "D"

Match Line - Sta. 330+00 "D"

SEVEN SPRINGS LEGACY, LLC.

SEC. 1, T.37N., R.3W.
SPRINGFIELD TOWNSHIP
LAPORTE COUNTY

20' Distribution Esmt. in Favor of Indiana Michigan Power Co. (Unable to Locate)

General Telephone Esmt. in Favor of American Telephone & Telegraph Co.

General Electric Line Esmt. in Favor of I&M Electric Co.

+77
STR. No. 20A
50' of 15" Pipe w/ 2 P.E.S. Req'd.

15.5' Cl. II Drive Req'd.

80' R/W

+00 80.00'

105' R/W

+00 105.00'

+37
STR. No. 22, (CV-020-046-50.05)
Extend Existing 3 Sided Str.
9' of 20'x5.3' Three-Sided Str. w/ Headwall, and Wingwalls Req'd.
See General Plan Sheet.

+90 Ex. R/W(65.00')

Constr. Limits

App. Ex. R/W

R/W

(Wooded)

(Pond)

(Grass)

(Bit. Mat.)

Shldr. (Gravel)

OHE&T

OHE

OHT

FO

T

TV

G

+27.9 "D", 40.0' Lt.

Guardrail Req'd. See Plan & Profiles for Details

+08.8 "D", 36.0' Lt.

20x5.3 Culvert (Conc.)

15" CMP

Pvt. Dr. (C. Stone.)

8'-0"

32'-0"

4'-5"

U.S. 20

S80°08'52"E

LINE "D"

+93.0 "D", 36.0' Rt.

+98.6 "D", 40.0' Rt.

+60.5 "D", 40.0' Rt.

+73.0 "D", 40.0' Rt.

12" HDPE

Remove And Reset Keypad/Post

Guardrail Req'd. See Plan & Profiles for Details

Ditch (Conc.) (Buried Conc.)

Do Not Disturb Stone Pillars

Do Not Disturb Underground Boxes

Do Not Disturb Gate

Do Not Disturb Above Ground Box

+R(+24.35)
64.96'

14' Mod. Cl. II Drive Req'd.

+TL(+44.52)
Ex. R/W(60.00')

+75
Ex. R/W(60.00')

+90
65.00'

+05

+19

+15
Ex. R/W(60.00')

+10
65.00'

65' R/W

+Ex. R/W(+27)
+Ex. R/W(80.00')

Temp. R/W for Grading

+19
STR. No. 20
74' of 15" Pipe w/ 2 P.E.S. Req'd.

Pvt. Dr. (Bit. Mat.)

App. Tract Line

554 W. Hwy 20
1-Sty. Brk Comm. Bldg.

SUTHERLAND HOMES

LOT 1

GRAZYNA URBANCZYK

SOPHIA STAATZ & ANDREJ GRANDY'S

552 W. Hwy 20
1-Sty. Frame Hse.

(Generator)

+20
95.00'

95' R/W

+65
95.00'

+37
STR. No. 21, (CV-020-046-50.05)
Extend Existing 3 Sided Str.
15' of 20'x5.3' Three-Sided Str. w/ Headwall, and Wingwalls Req'd.
See General Plan Sheet.

Sidewalk (Conc.)

+10
Ex. R/W(65.43')

+15
Ex. R/W(57.07')

+33
76.00'

+40

+70

+79
76.00'

8' Mod. Cl. II Drive Req'd.

9' Mod. Cl. II Drive Req'd.

Temp. R/W for Drive Const.

Ingress & Egress Esmt.

SEC. 1, T.37N., R.3W.
SPRINGFIELD TOWNSHIP
LAPORTE COUNTY

WILLIAM & FAITH DALZOTTO

See Typical Cross Sections for Compacted Aggregate Shoulder.

ALL R/W ON THIS SHEET DESCRIBED FROM LINE "D" UNLESS OTHERWISE NOTED

## LEGEND

- (D) HMA FOR APPROACHES
- (J) HMA SHOULDER (SEE TYPICAL SECTIONS)
- (K) FULL DEPTH HMA PAVEMENT (SEE TYPICAL SECTIONS)
- (L) MILL & OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
- (L1) MILL & VARIABLE DEPTH OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
- (27) SEED MIXTURE, R

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JWG DRAWN: BKM

CHECKED: JCS CHECKED: JWG

INDIANA DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

| | |
|---|---|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=20' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 74 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

# PRELIMINARY PLANS

331+00
332+00
333+00
334+00
335+00
336+00

Match Line - Sta. 330+00 "D"

Match Line - Sta. 336+00 "D"

App. 1/4 Sec. Line

Temp. R/W
for Drive Const.

Do Not Disturb Keypad

12' Mod. Cl. II Drive Req'd.

(Keypad)

+45
93.00'

+75
93.00'

Do Not Disturb
Landscaping

+35
Ex. R/W(65.00')

App. Ex. R/W

+65
STR. No. 23
44' of 15" Pipe w/
2 P.E.S. Req'd.

+10
Ex. R/W(65.00')

SEVEN SPRINGS
LEGACY, LLC.

20' Distribution Esmt. in Favor of
Indiana Michigan Power Co.
(Unable to Locate)

General Telephone Esmt. in Favor of
American Telephone & Telegraph Co.

General Electric Line Esmt.
in Favor of I&M Electric Co.

SEC. 1, T.37N., R.3W.
SPRINGFIELD TOWNSHIP
LAPORTE COUNTY

Constr. Limits

App. Ex. R/W

+11.9 "D", 40.0' Lt.

+91.8 "D", 36.0' Lt.

Guardrail Req'd. See Plan & Profiles for Details

+50.0 "D", 27.0' Lt.

+50.0 "D", 20.0' Lt.

U.S. 20
(Bit. Mat.)

S80°08'52"E

LINE "D"

32'-0"

8'-0"

Pvt. Dr.
(Bit. Mat.)
15" CMP

+05
Ex. R/W(55.00')

+50
Ex. R/W(55.00')

+88
Ex. R/W(55.00')

+62
70.00'

+69

10' Mod. Cl. II Drive Req'd.

Temp. R/W
for Drive Const.

Temp. R/W
for Grading

+77.12
70.00'

General Electric Line Esmt. in Favor of
I&M Electric Co. Along U.S. 20

WILLIAM & FAITH
DALZOTTO

424 W. Hwy 20
1-Sty.Frame Hse.

ROBERT
FERRELL

DARRYL & WENDY SMITH

SEC. 1, T.37N., R.3W.
SPRINGFIELD TOWNSHIP
LAPORTE COUNTY

App. 1/4 Sec. Line

App. ± ft.

App. ± ft.

See Typical Cross Sections for Compacted Aggregate Shoulder.

ALL R/W ON THIS SHEET DESCRIBED FROM LINE "D"
UNLESS OTHERWISE NOTED

## LEGEND

- (D) HMA FOR APPROACHES
- (J) HMA SHOULDER (SEE TYPICAL SECTIONS)
- (K) FULL DEPTH HMA PAVEMENT (SEE TYPICAL SECTIONS)
- (L) MILL & OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
- (L1) MILL & VARIABLE DEPTH OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
- (27) SEED MIXTURE, R

RECOMMENDED
FOR APPROVAL: _____
DESIGN ENGINEER DATE

DESIGNED: JWG DRAWN: BKM
CHECKED: JCS CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=20' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 75 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS

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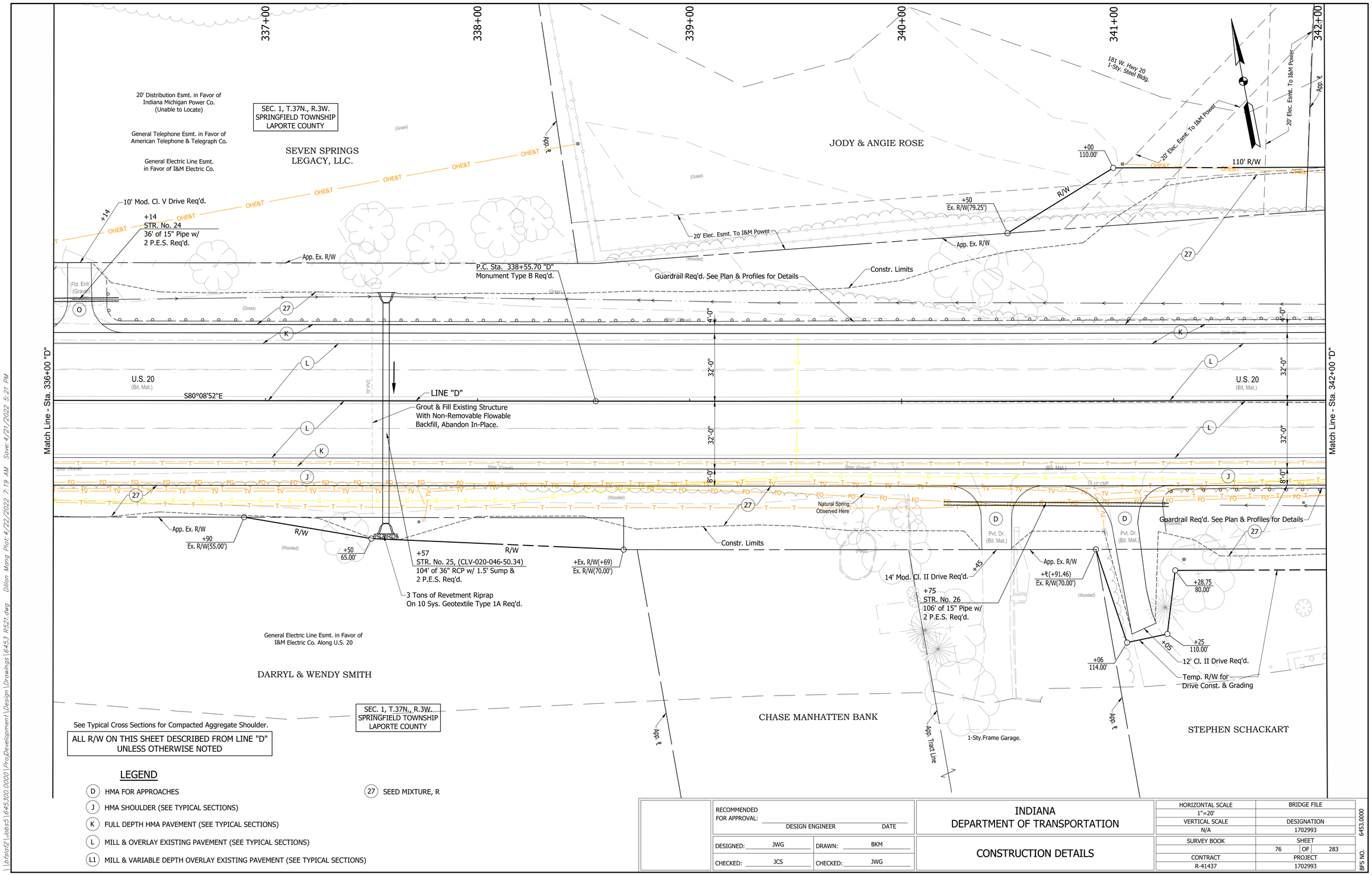


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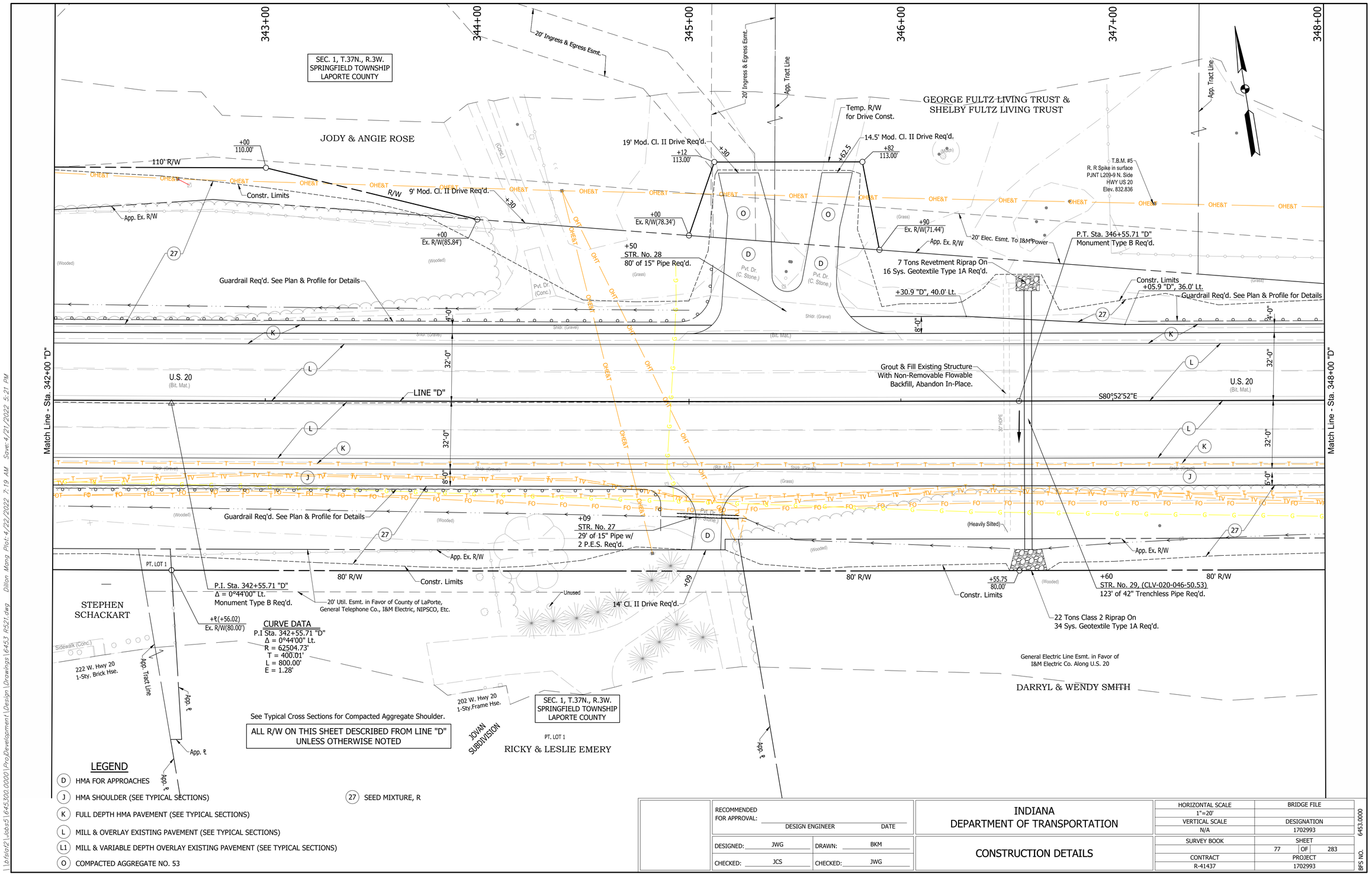
PRELIMINARY PLANS

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# PRELIMINARY PLANS

\\sfsrd2\Jobs5\645300.0000\ProDevelopment\Design\Drawings\6453 R521.dwg Dillon Mong Plot: 4/22/2022 7:20 AM Saved: 4/21/2022 5:21 PM

349+00 | 350+00 | 351+00 | 352+00 | 353+00 | 354+00

Match Line - Sta. 348+00 "D"

Match Line - Sta. 354+00 "D"

SEC. 1, T.37N., R.3W.
SPRINGFIELD TOWNSHIP
LAPORTE COUNTY

GEORGE FULTZ LIVING TRUST &
SHELBY FULTZ LIVING TRUST

THOMAS PERSCHKE, TRUSTEE

57 W. Hwy 20
1-Sty. Frame Comm. Bldg.

1-Sty. Steel Bldg

(Pond)

App. ℄

OHE&T

+℄(+75.06)
62.00'

Do Not Disturb Fence

Temp. R/W for Grading

P.C. Sta. 352+00.01 "D"
Monument Type B Req'd.

Constr. Limits

20' Elec. Esmt. To I&M Power

App. Ex. R/W

+45
Ex. R/W(55.00')

+55
Ex. R/W(55.00')

Ditch (Conc.)
(Bahed Conc.)

Guardrail Req'd. See Plan & Profiles for Details

U.S. 20
(Bit. Mat.)

S80°52'52"E

LINE "D"

4'-0"

32'-0"

8'-0"

Shldr. (Gravel)

(Grass)

(Bit. Mat.)

18"HDPE

18" CMP

(Heavily Silted)

(Wooded)

Ditch (Conc, partially buried)

Unused

+25.9 "D", 56.9' Rt.
+26.5 "D", 64.2' Rt.
+17.8 "D", 70.7' Rt.
+08.9 "D", 72.8' Rt.
+09.5 "D", 77.0' Rt.

+50.7 "D", 60.8' Rt.
+63.4 "D", 70.9' Rt.
+64.7 "D", 77.0' Rt.

+00.01
80.00'

Pvt. Dr.
(Bit. Mat.)

+36.5

+37
STR. No. 31
50' of 18" Pipe w/
2 P.E.S. Req'd.
25' Mod. Cl. II Drive Req'd.

EMILI & EVANNA
REMEDI

Pvt. Dr.
(C. Stone.)

+98

+50

37' Mod. Cl. II Drive Req'd.

20' Mod. Cl. II Drive Req'd.

+15
STR. No. 30
102' of 18" Pipe w/
2 P.E.S. Req'd.

80' R/W

Constr. Limits

App. Sec. Line

44 W. Hwy 20
1-Sty. Brick Hse.

76 W. Hwy 20
1-Sty.Frame Hse.

OPAL LYKINS
LIFE ESTATE, ET. AL.

DAVID & SHERRY
LYKINS

App. ℄

DARRYL & WENDY SMITH

General Electric Line Esmt. in Favor of
I&M Electric Co. Along U.S. 20

SEC. 1, T.37N., R.3W.
SPRINGFIELD TOWNSHIP
LAPORTE COUNTY

See Typical Cross Sections for Compacted Aggregate Shoulder.

ALL R/W ON THIS SHEET DESCRIBED FROM LINE "D"
UNLESS OTHERWISE NOTED

## LEGEND

- (D) HMA FOR APPROACHES
- (J) HMA SHOULDER (SEE TYPICAL SECTIONS)
- (K) FULL DEPTH HMA PAVEMENT (SEE TYPICAL SECTIONS)
- (L) MILL & OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
- (L1) MILL & VARIABLE DEPTH OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
- (27) SEED MIXTURE, R

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JWG | DRAWN: BKM

CHECKED: JCS | CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

| | |
|---|---|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=20' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 78 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

# PRELIMINARY PLANS

\\bfs\v2\Jobs\645300.0000\ProjDevelopment\Design\Drawings\6453 R521.dwg Dillon Mang Plot: 4/22/2022 7:20 AM Save: 4/21/2022 5:21 PM

355+00 | 356+00 | 357+00 | 358+00 | 359+00 | 360+00

Match Line - Sta. 354+00 "D"

Match Line - Sta. 360+00 "D"

SEC. 1, T.37N., R.3W.
SPRINGFIELD TOWNSHIP
LAPORTE COUNTY

THOMAS PERSCHKE, TRUSTEE

SEC. 6, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

GREGORY THOMAN

App. Tract Line

Pvt. Dr. (Bit. Mat.)

12.5' Cl. II Drive Req'd.
+40
STR. No. 31A
38' of 15" Pipe w/
2 P.E.S. Req'd.

+00
Ex. R/W(55.00')

+25
60.00'

+50
Ex. R/W(55.00')

R/W

Partially Silted

18" HDPE

P.O.C. Sta. 358+55.00 "D" =
P.O.T. Sta. 3+00.00 "S-3-D"
Monument Type B Req'd.

+87.8 "D", 71.6' Lt.

23' M.P.R.A. Req'd. +55

+10.7 "S-3-D", 10.2' Rt.

Range Rd. (Bit. Mat.)

App. Ex. R/W

App. Sec. Line

2'-0"

R40'-0"

Ditch (Conc.)

18 Tons of Revetment Riprap
On 34 Sys. Geotextile Type 1A Req'd.

+94.7 "D", 78.0' Lt.

General Gas Pipe Line Esmt. in
Favor of Wolverine Pipe Line Co.

T.B.M. #7
X Chiseled in NW Cor. in headwall
Elev. 793.610

+35.1 "D", 32.0' Lt.

+91.8 "D", 36.4' Lt.

Constr. Limits

App. Ex. R/W

U.S. 20
(Bit. Mat.)

S80°52'52"E

S81°27'52"E

LINE "D"

32'-0"

8'-0"

4'-2"

99°11'33"

80°48'27"

Grout & Fill Existing Structure
With Non-Removable Flowable
Backfill, Abandon In-Place.

+16.6 "D", 36.0' Rt.

+40.6 "D", 40.0' Rt.

+65.6 "D", 32.0' Rt.

+13.8 "D", 36.1' Rt.

Guardrail Req'd. See Plan & Profiles for Details

P.I. Sta. 356+00.01 "D"
Δ = 0°35'00" Lt.
Monument Type B Req'd.

EDWIN & IMOGENE ESKRIDGE

+14.0 "D", 79.9' Rt.

+14.5 "D", 75.5' Rt.

+02
STR. No. 32, (CLV-56665)
123' of 36" RCP w/ 0.5'
Sump & 2 P.E.S. Req'd.

Ditch (Conc. partially buried)

Ditch (Conc, partially buried)

App. Sec. Line & ℄

80' R/W

+60.50
80.00'

44 W. Hwy 20
3-Sty. Brick Hse.

+98.63
℄(95.00')

+Ex. R/W(+40.82)
Ex. R/W(100.72')

95' R/W

+00.01
95.00'

+34.41
Ex. R/W(95.00')

+55

23' M.P.R.A. Req'd.

P.I. Sta. 2+29.72 "S-3-D"
Δ = 0°23'56" Lt.
(No Curve Run)

+89.9 "S-3-D", 12.6' Lt.

LINE "S-3-D"

App. Sec. Line

+Ex. R/W(+05.35)
125.00'

Temp. R/W
for Grading

CURVE DATA
P.I Sta. 356+00.01 "D"
Δ = 0°35'00" Lt.
R = 78577.31'
T = 400.00'
L = 800.00'
E = 1.02'

+℄(+68.70)
℄(130.77')

EMILI & EVANNA
REMEDI

COLIN R. SCHROEDER

SEC. 12, T.37N., R.3W.
CENTER TOWNSHIP
LAPORTE COUNTY

4998 N Range Rd
1-Sty. Frame Hse.

CHARLES MAINLAND
REV. LIV. TRUST

SEC. 7, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

See Typical Cross Sections for Compacted Aggregate Shoulder.

ALL R/W ON THIS SHEET DESCRIBED FROM LINE "D"
UNLESS OTHERWISE NOTED

## LEGEND

- (D) HMA FOR APPROACHES
- (J) HMA SHOULDER (SEE TYPICAL SECTIONS)
- (K) FULL DEPTH HMA PAVEMENT (SEE TYPICAL SECTIONS)
- (L) MILL & OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
- (L1) MILL & VARIABLE DEPTH OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
- (27) SEED MIXTURE, R

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JWG DRAWN: BKM

CHECKED: JCS CHECKED: JWG

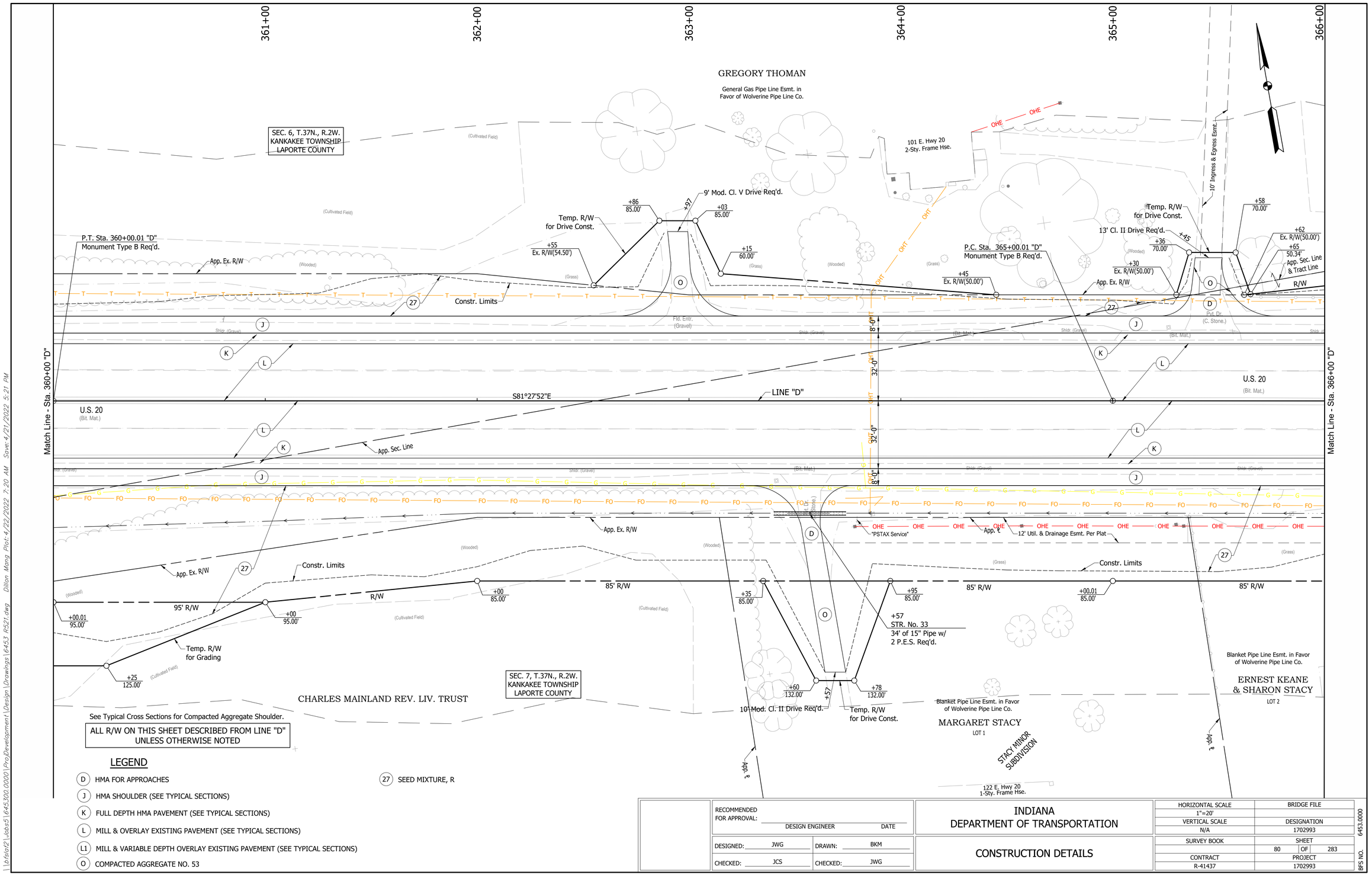
INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=20' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 79 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

# PRELIMINARY PLANS

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# PRELIMINARY PLANS

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367+00 | 368+00 | 369+00 | 370+00 | 371+00 | 372+00

Match Line - Sta. 366+00 "D"

Match Line - Sta. 372+00 "D"

SEC. 6, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

44 W. Hwy 20
1-Sty. Steel Bldg.

CURVE DATA
P.I Sta. 368+28.01 "D"
Δ = 0°23'00" Rt.
R = 98050.00'
T = 328.00'
L = 656.00'
E = 0.55'

App. Sec. Line & Tract Line

GREGORY THOMAN

General Gas Pipe Line Esmt. in
Favor of Wolverine Pipe Line Co.

WARNING! WOLVERINE PIPELINE
Location Shown On Plans is Approximate. Contractor Shall Field Verify Prior to Commencing Construction Activities.

P.I. Sta. 368+28.01 "D"
Δ = 0°23'00" Rt.
Monument Type B Req'd.

N.=402024.80
E.=802233.54

N.=402021.26
E.=802253.32

P.T. Sta. 371+56.00 "D"
Monument Type B Req'd.

R/W | +50 60.00' | 60' R/W | Constr. Limits | App. Ex. R/W | +56 60.00' | 60' R/W

+70.33 49.99'
+69.56 41.45'

8'-0" | 32'-0" | 8'-0"

U.S. 20 (Bit. Mat.)

LINE "D"

S81°04'52"E

App. Ex. R/W

12' Util. & Drainage Esmt. Per Plat

N.=401933.50
E.=802182.48

N.=401930.49
E.=802199.77

85' R/W | +48 85.00' | +95 85.00' | +(+11.43) 85.00' | +45 85.03' | +56 85.00' | +00 85.00'

+64
STR. No. 34
32' of 15" Pipe w/ 2 P.E.S. Req'd.

+18
STR. No. 35
32' of 15" Pipe w/ 2 P.E.S. Req'd.

Do Not Disturb Well

+96 120.00' | +68 125.00' | +18 95.00' | +36 95.00'

+69

13' Cl. II Drive Req'd.

12' Cl. II Drive Req'd.

Temp. R/W for Drive Const.

Temp. R/W for Drive Const.

Blanket Pipe Line Esmt. in Favor of Wolverine Pipe Line Co.

Blanket Pipe Line Esmt. in Favor of Wolverine Pipe Line Co.

Blanket Pipe Line Esmt. in Favor of Wolverine Pipe Line Co.

Blanket Pipe Line Esmt. in Favor of Wolverine Pipe Line Co.

152 E. Hwy 20
1-Sty. Brick Hse.

ERNEST KEANE & SHARON STACY
LOT 2

ROBERT STACY JR.
LOT 5

JAMES STACY
LOT 3

STACY MINOR SUBDIVISION

PHILIP & NANCY WHYBREW

234 E. Hwy 20
2-Sty. Frame Hse.

App. ℄

20' Ingress & Egress Esmt.

App. Tract Line

SEC. 7, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

See Typical Cross Sections for Compacted Aggregate Shoulder.

ALL R/W ON THIS SHEET DESCRIBED FROM LINE "D" UNLESS OTHERWISE NOTED

## LEGEND

- (D) HMA FOR APPROACHES
- (J) HMA SHOULDER (SEE TYPICAL SECTIONS)
- (K) FULL DEPTH HMA PAVEMENT (SEE TYPICAL SECTIONS)
- (L) MILL & OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
- (L1) MILL & VARIABLE DEPTH OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
- (O) COMPACTED AGGREGATE NO. 53
- (27) SEED MIXTURE, R

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JWG | DRAWN: BKM

CHECKED: JCS | CHECKED: JWG

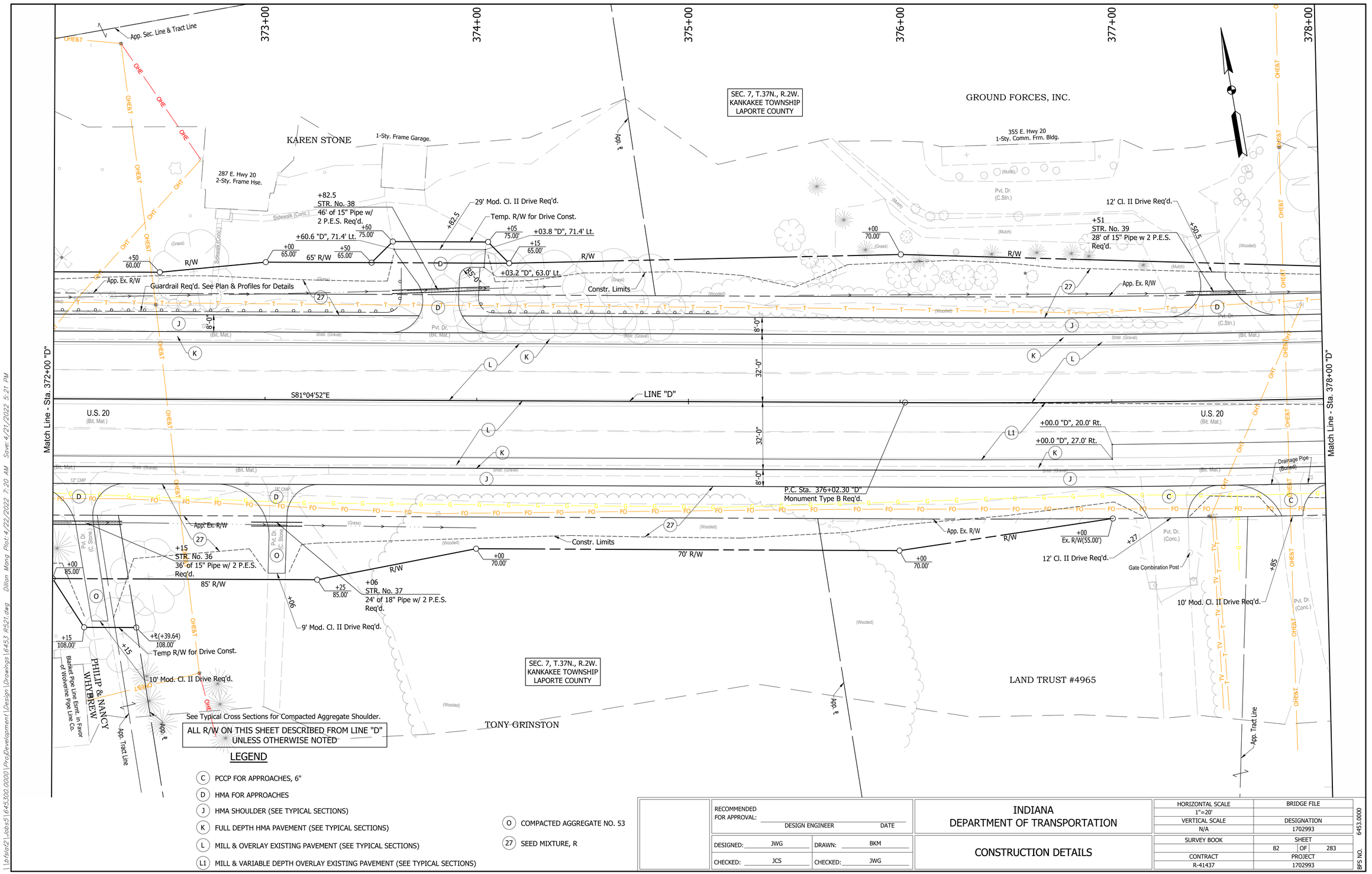
INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

| | |
|---|---|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=20' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 81 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

# PRELIMINARY PLANS




RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JWG DRAWN: BKM

CHECKED: JCS CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

| | |
|---|---|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=20' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 82 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

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# PRELIMINARY PLANS

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379+00 380+00 381+00 382+00 383+00 384+00

OHE&T

(Pond)

SEC. 7, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

GROUND FORCES, INC.

(Wooded)

R/W

+50
60.00'

60' R/W

App. Ex. R/W

(Grass)

Constr. Limits

27

J

K

L

8'-0"

32'-0"

8'-0"

Shldr. (Gravel)

U.S. 20
(Bit. Mat.)

LINE "D"

Match Line - Sta. 378+00 "D"

Match Line - Sta. 384+00 "D"

L1

+00.0 "D", 20.0' Rt.

+00.0 "D", 27.0' Rt.

FO

G

TV

D

O

Pvt. Dr. (C.Stn.)

+60
Ex. R/W(55.00')

+98.45
70.00'

70' R/W

14' Mod. Cl. II Drive Req'd.

Temp. R/W
for Drive Const.

+15
85.00'

+99
105.00'

+77
105.00'

+92

11' Mod. Cl. II Drive Req'd.

422 N. Hwy 20
2-Sty. Frame Hse.

1-Sty. Blk
Comm. Bldg.

+39

P.I. Sta. 382+16.30 "D"
Δ = 9°48'00" Lt.
Monument Type B Req'd.

## CURVE DATA

P.I Sta. 382+16.30 "D"
Δ = 9°48'00" Lt.
R = 7162.00'
T = 614.00'
L = 1225.00'
E = 26.27'
S.E. = 2%

LAND TRUST #4965

DOLORES SMEATON

MARK & CONNIE SHERRICK

356 E. Hwy 20
1-Sty. Brk. Hse.

App. Tract Line

App. Ex. R/W

See Typical Cross Sections for Compacted Aggregate Shoulder.

ALL R/W ON THIS SHEET DESCRIBED FROM LINE "D"
UNLESS OTHERWISE NOTED

SEC. 7, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

## LEGEND

- (D) HMA FOR APPROACHES
- (J) HMA SHOULDER (SEE TYPICAL SECTIONS)
- (K) FULL DEPTH HMA PAVEMENT (SEE TYPICAL SECTIONS)
- (L) MILL & OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
- (L1) MILL & VARIABLE DEPTH OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
- (O) COMPACTED AGGREGATE NO. 53
- (27) SEED MIXTURE, R

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JWG DRAWN: BKM

CHECKED: JCS CHECKED: JWG

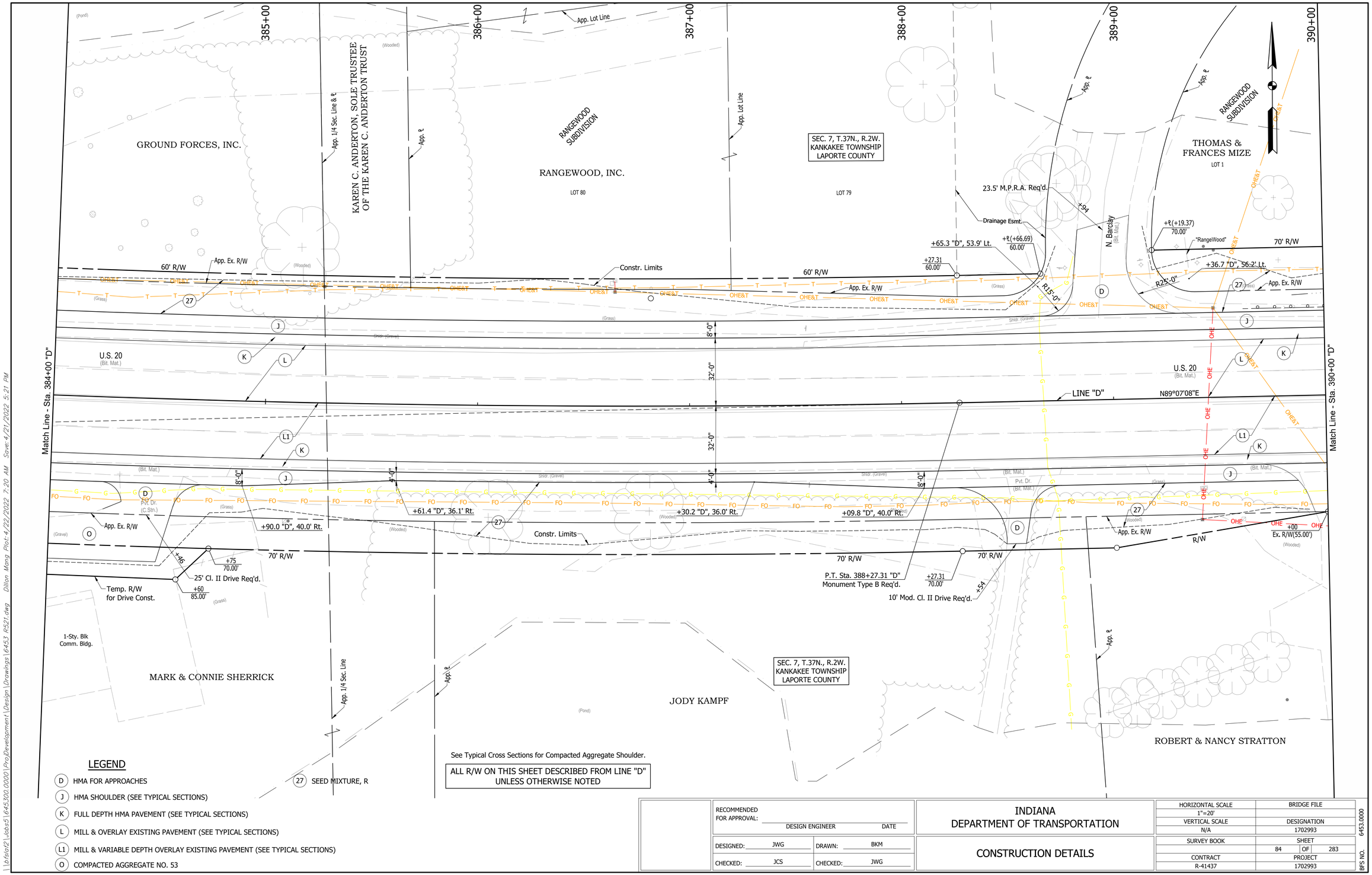
INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=20' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 83 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

# PRELIMINARY PLANS




## LEGEND

- (D) HMA FOR APPROACHES
- (J) HMA SHOULDER (SEE TYPICAL SECTIONS)
- (K) FULL DEPTH HMA PAVEMENT (SEE TYPICAL SECTIONS)
- (L) MILL & OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
- (L1) MILL & VARIABLE DEPTH OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
- (O) COMPACTED AGGREGATE NO. 53
- (27) SEED MIXTURE, R

See Typical Cross Sections for Compacted Aggregate Shoulder.

ALL R/W ON THIS SHEET DESCRIBED FROM LINE "D" UNLESS OTHERWISE NOTED

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JWG DRAWN: BKM

CHECKED: JCS CHECKED: JWG

INDIANA DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=20' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 84 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

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PRELIMINARY PLANS

391+00 | 392+00 | 393+00 | 394+00 | 395+00 | 396+00

RANGEWOOD SUBDIVISION

THOMAS & FRANCES MIZE
LOT 1

PATRICK & MICHAEL WILLIAMS

SEC. 7, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

Temp. R/W for Drive Const.

+81 105.00'

505 E. Hwy 20 1-Sty. Frame Hse.

+11 15' Cl. II Drive Req'd.

+18 105.00'

505 E. Hwy 20 1-Sty. Frame Hse.

Utility Esmt.

App. ℄

Do Not Disturb Garage

Do Not Disturb Fence

+72 Ex. R/W(70.00')

70' R/W

+11 STR. No. 40 32' of 15" Pipe w/ 2 P.E.S. Req'd.

+30 Ex. R/W(70.00')

+40 STR. No. 41, (CLV-56666) Extend Existing RCP 15' of 30" RCP w/ 1 P.E.S. Req'd.

70' R/W

+25 70.00'

R/W

+75 80.00'

80' R/W

+00 80.00'

P.O.T. Sta. 395+16.17 "D" =
P.O.T. Sta. 50+00.00 "HUNTERS GLEN"
Monument Type B Req'd.

Constr. Limits

Guardrail Req'd. See Plan & Profiles for Details

App. Ex. R/W

Remove Existing Headwall And Wingwalls Prior To Extending Structure

+85.0 "D", 27.0' Lt.

+85.0 "D", 25.0' Lt.

U.S. 20 (Bit. Mat.)

N89°07'08"E

LINE "D"

Match Line - Sta. 390+00 "D"

Match Line - Sta. 396+00 "D"

+09.9 "D", 36.0' Rt.

+47.5 "D", 42.0' Rt.

+01.7 "D", 42.0' Rt.

Heavily Silted

Guardrail Req'd. See Plan & Profiles for Details

App. Ex. R/W

Constr. Limits

6 Tons Class 2 Riprap On 15 Sys. Geotextile Type 1A Req'd.

+01.5

17' Cl. V Drive Req'd.

+55 Ex. R/W(55.00')

+74 R/W

18' M.P.R.A. Req'd.

+94.0 "D", 57.0' Rt.

+℄(+81.20) 82.00'

T.B.M. #8
X Chisled in E. top of curb
"Hunters Glen" Entrance
Elev. 781.945

N. Hunters Glen (Bit. Mat.)

"Hunters Run"

10' I&M Esmt. Per Plat

LINE "HUNTERS GLEN"

+16

+85 Ex. R/W(55.00')

R2'-0"

R15'-0"

+52 R/W

18' M.P.R.A. Req'd.

+39.9 "D", 55.8' Rt.

+℄(+51.20) 82.00'

15' M.P.R.A. Req'd.

75' Non-Access & Landscape Esmt. Per Plat

JEFFREY GEORGE
LOT 1

HUNTER'S RUN SECTION ONE

ROBERT & NANCY STRATTON

HUNTERS RUN OUTLOT A, LLC

OUTLOT "A"

SEC. 7, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

See Typical Cross Sections for Compacted Aggregate Shoulder.

ALL R/W ON THIS SHEET DESCRIBED FROM LINE "D" UNLESS OTHERWISE NOTED

## LEGEND

- (D) HMA FOR APPROACHES
- (J) HMA SHOULDER (SEE TYPICAL SECTIONS)
- (K) FULL DEPTH HMA PAVEMENT (SEE TYPICAL SECTIONS)
- (L) MILL & OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
- (L1) MILL & VARIABLE DEPTH OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
- (O) COMPACTED AGGREGATE NO. 53
- (14) MODIFIED CONCRETE CURB
- (27) SEED MIXTURE, R

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JWG DRAWN: BKM

CHECKED: JCS CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=20' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 85 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

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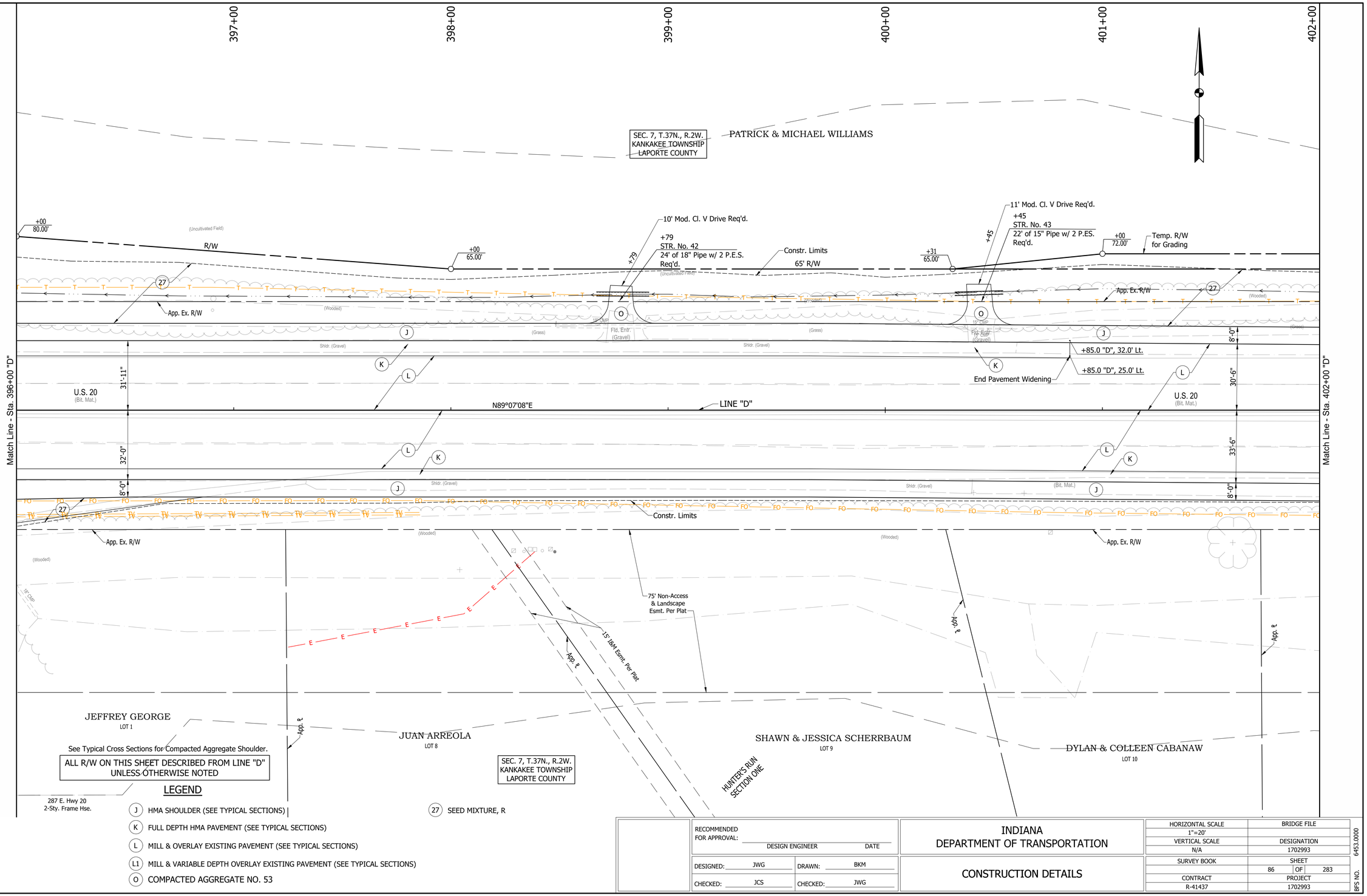
PRELIMINARY PLANS




PRELIMINARY PLANS

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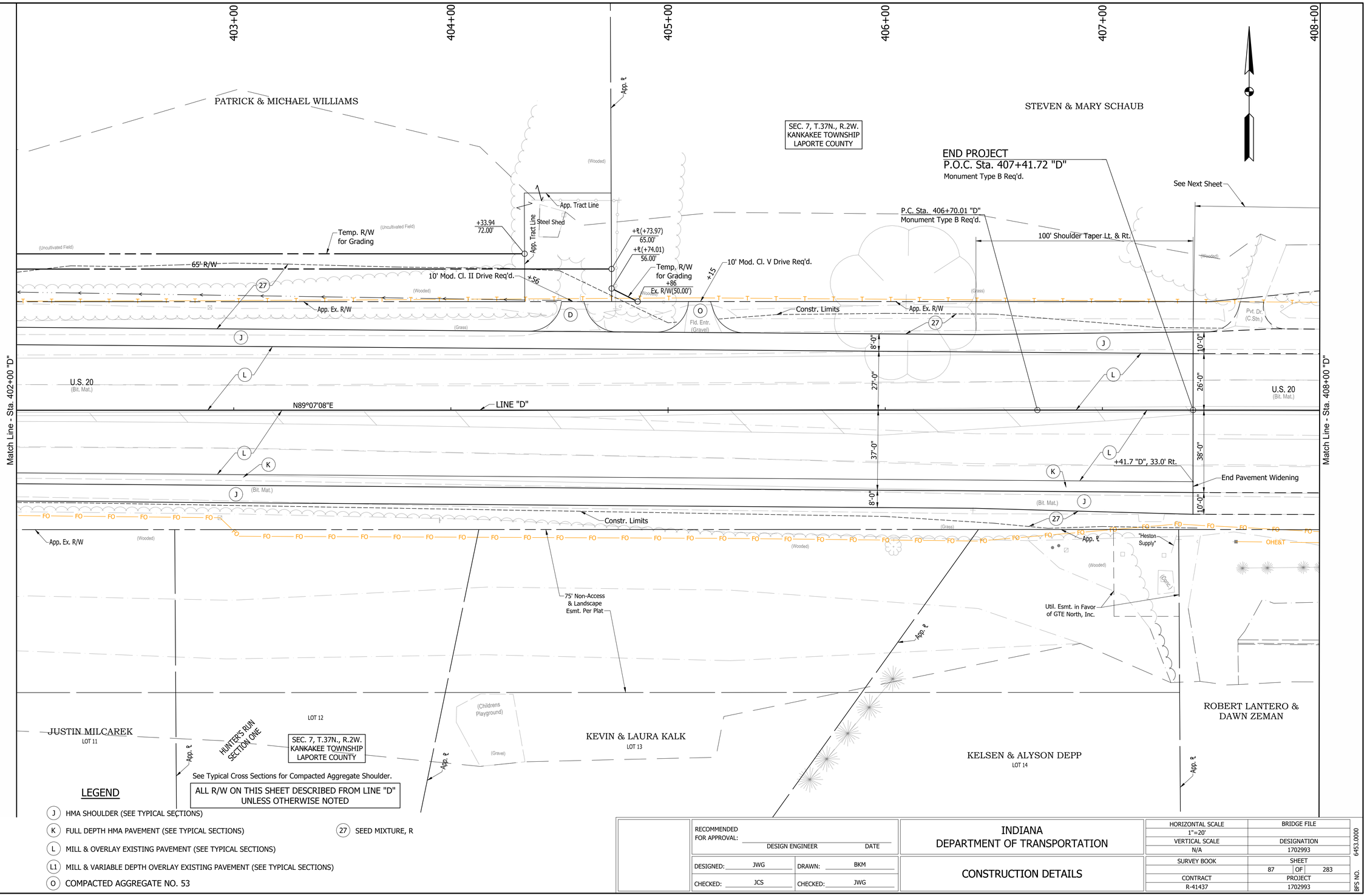


RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JWG DRAWN: BKM

CHECKED: JCS CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=20' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 87 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

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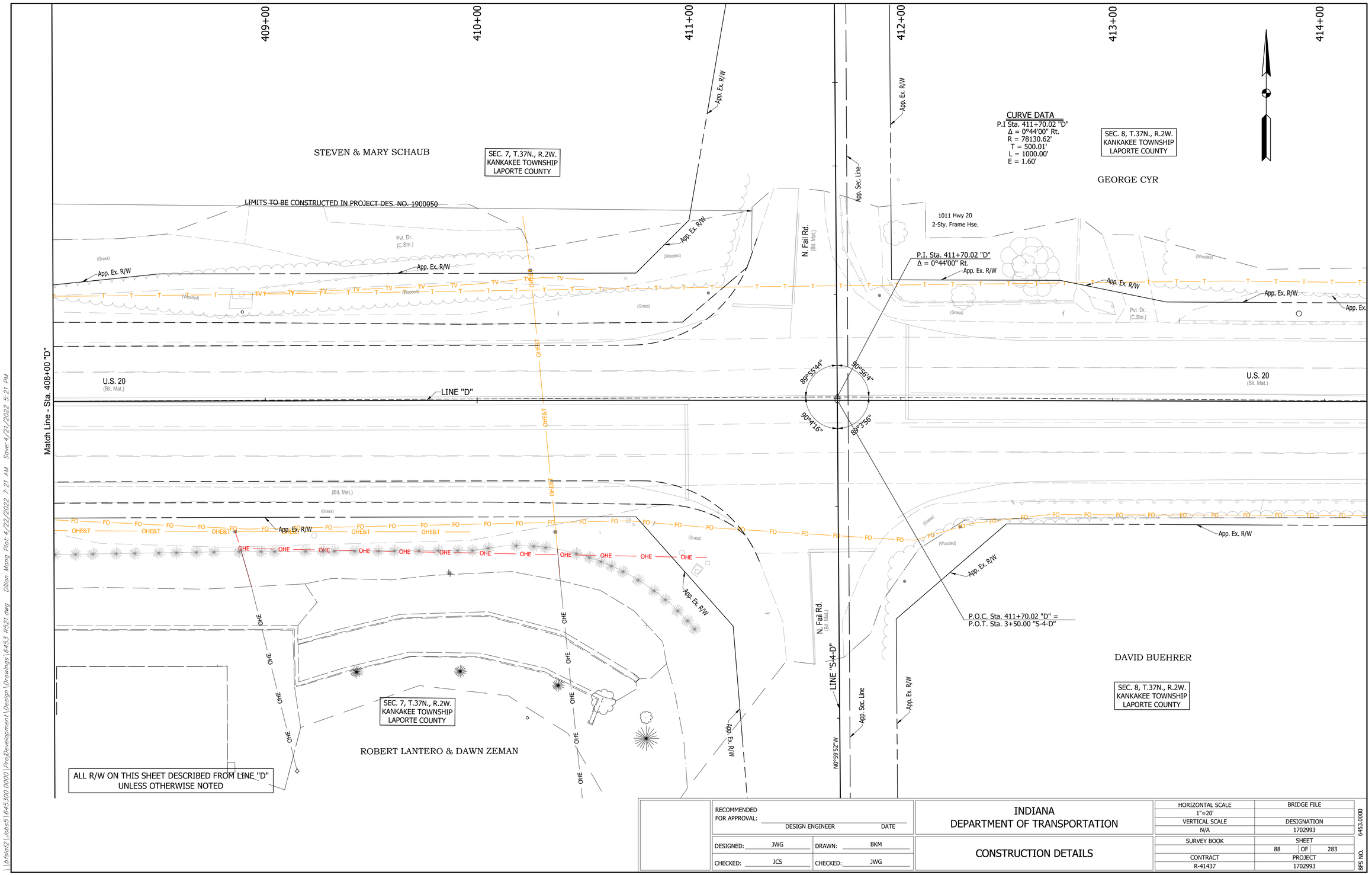
PRELIMINARY PLANS

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RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JWG DRAWN: BKM

CHECKED: JCS CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=20' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 88 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

# PRELIMINARY PLANS

P.C. Sta. 302+11.90 "D"

302+00

303+00

304+00

U.S 20

Shldr. (Gravel)

FO

(Wooded)

765

760

755

750

749

748

745

740

735

732

Inv. 733.34
T.C. 734.68

Ditch Flow Line

Toe of Slope

+01, Low Point El. 731.64

| | | | | |
|---|---|---|---|---|
| | RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE | INDIANA DEPARTMENT OF TRANSPORTATION | HORIZONTAL SCALE: 1"=10' | BRIDGE FILE: |
| | | | VERTICAL SCALE: N/A | DESIGNATION: 1702993 |
| | DESIGNED: JWG DRAWN: BKM | U.S. 20 STR. 17 & 17A (CLV-020-046-49.69) GRADING PLAN | SURVEY BOOK: | SHEET: 89 OF 283 |
| | CHECKED: JCS CHECKED: JWG | | CONTRACT: R-41437 | PROJECT: 1702993 |

BFS NO. 6453.0000

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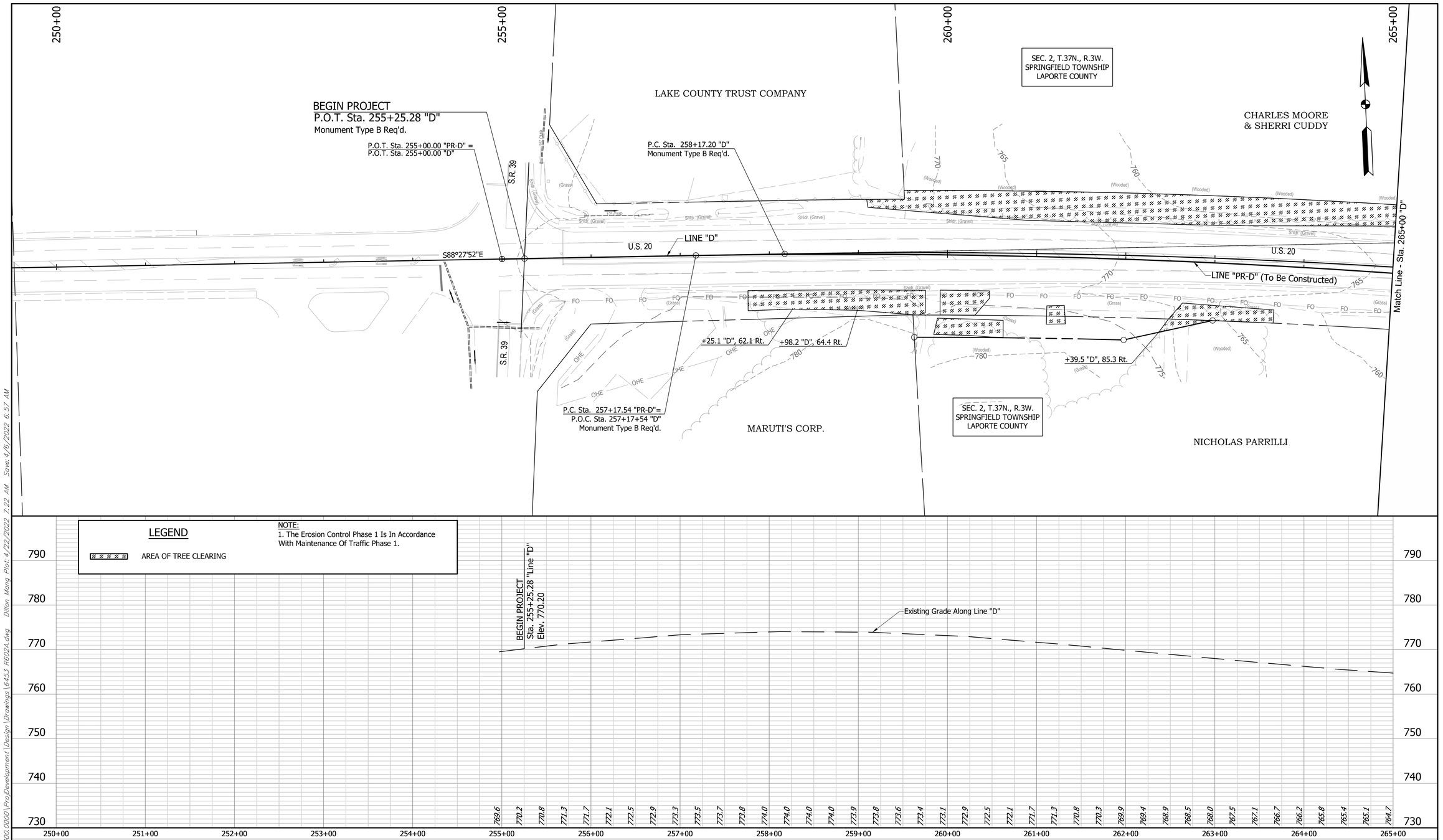
PRELIMINARY PLANS

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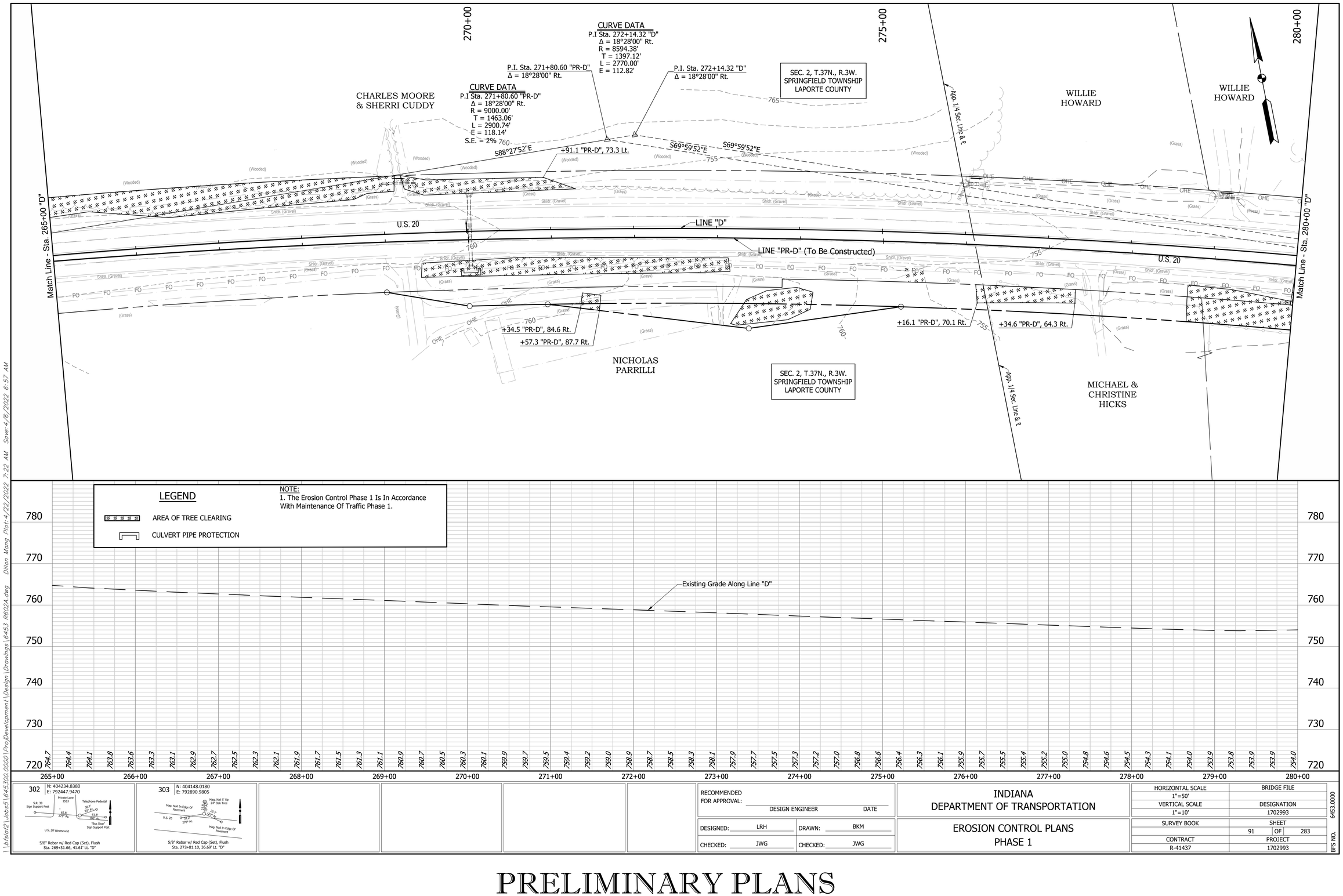
# PRELIMINARY PLANS







302
N: 404234.8380
E: 792447.9470
S.R. 39 Sign Support Post
Private Lane 1553
Telephone Pedestal
65.8' 270° Az.
30.7' 197.35'
33.8' 180° Az.
"Bus Stop" Sign Support Post
U.S. 20 Westbound
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 269+31.66, 41.61' Lt. "D"

303
N: 404148.0180
E: 792890.9805
Mag. Nail In Edge Of Pavement
Mag. Nail 5' Up 24" Oak Tree
22.7' 100° Az.
U.S. 20
0° 37.3' 270° Az.
Mag. Nail In Edge Of Pavement
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 273+81.10, 36.69' Lt. "D"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: LRH DRAWN: BKM
CHECKED: JWG CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLANS
PHASE 1

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| 1"=10' | 1702993 |
| SURVEY BOOK | SHEET |
| | 91 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

# PRELIMINARY PLANS

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WILLIE HOWARD

SEC. 2, T.37N., R.3W.
SPRINGFIELD TOWNSHIP
LAPORTE COUNTY

285+00

290+00

295+00

Match Line - Sta. 280+00 "D"

Match Line - Sta. 295+00 "D"

P.T. Sta. 285+87.20 "D"
Monument Type B Req'd.

U.S. 20

S69°59'52"E

LINE "D"

LINE "PR-D" (To Be Constructed)

App. Ex. R/W

P.O.T. Sta. 0+00.00 "S-1-D"

LINE "S-1-D"

N. 125 W.

THE WOODSEDGE COMPANY PARTNERSHIP

P.O.T. Sta. 290+05.80 "D" =
P.O.T. Sta. 2+00.00 "S-1-D"
Monument Type B Req'd.

P.O.T. Sta. 290+06.87 "PR-D" =
P.O.T. Sta. 2+11.39 "S-1-D"
Monument Type B Req'd.

+30
STR. No. 14, (CLV-56663)

69°41'01"

110°19'00"

+48.6 "PR-D", 74.9 Rt.

+60
STR. No. 13, (CLV-56662)

P.T. Sta. 286+18.28 "PR-D"
Monument Type B Req'd.

DAVID BUELL

TONYA & ANDREW
KALENOWSKY

HAROLD & SANDRA
HENDERSON

SEC. 2, T.37N., R.3W.
SPRINGFIELD TOWNSHIP
LAPORTE COUNTY

Temp. R/W
for Grading

+72.0 "PR-D", 86.4 Rt.

JAMES ROTERING

P.O.T. Sta. 4+00.00 "S-1-D"

## LEGEND

- SILT FENCE
- AREA OF TREE CLEARING
- CULVERT PIPE PROTECTION
- BORING/RECEIVING PIT

NOTE:
1. The Erosion Control Phase 1 Is In Accordance With Maintenance Of Traffic Phase 1.

Existing Grade Along Line "D"

+64, Inv. El. 758.71 Lt.

+42, Inv. El. 760.00 Rt.
(Plotted 10' Below Datum)

+30, Inv. El. 770.66 Lt.

+83, Inv. El. 771.77 Rt.
(Plotted 10' Below Datum)

280+00 281+00 282+00 283+00 284+00 285+00 286+00 287+00 288+00 289+00 290+00 291+00 292+00 293+00 294+00 295+00

304 N: 403978.9470 E: 793558.3260

5/8" Rebar w/ Red Cap (Set), Flush
Sta. 280+66.77, 37.06' Lt. "D"

305 N: 403602.5365 E: 794407.9145

5/8" Rebar w/ Red Cap (Set), Flush
Sta. 289+91.94, 41.86' Rt. "D"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: LRH DRAWN: BKM

CHECKED: JWG CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLANS
PHASE 1

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| 1"=10' | 1702993 |
| SURVEY BOOK | SHEET |
| | 92 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

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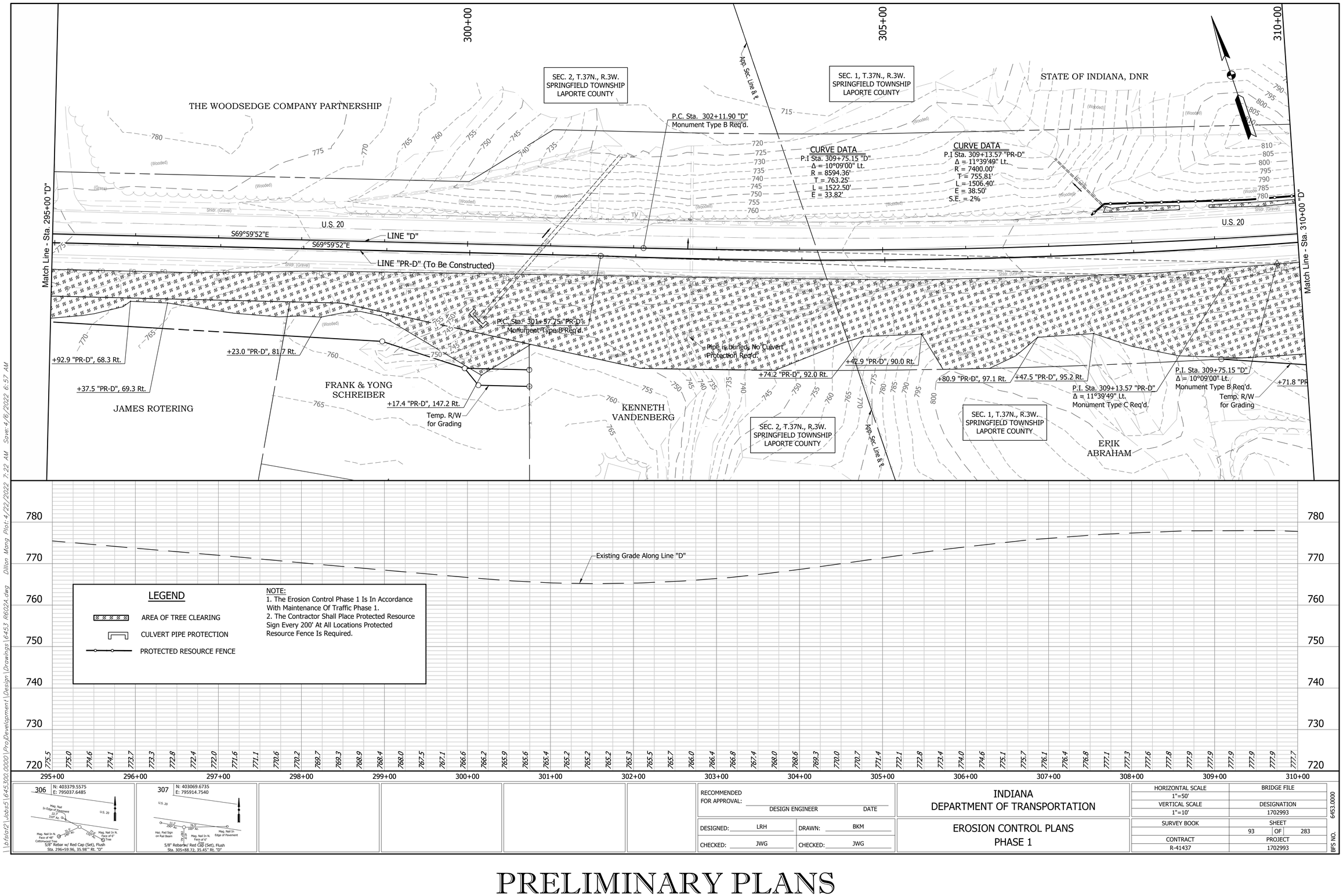
PRELIMINARY PLANS




## LEGEND

- AREA OF TREE CLEARING
- CULVERT PIPE PROTECTION
- PROTECTED RESOURCE FENCE

NOTE:
1. The Erosion Control Phase 1 Is In Accordance With Maintenance Of Traffic Phase 1.
2. The Contractor Shall Place Protected Resource Sign Every 200' At All Locations Protected Resource Fence Is Required.

306 N: 403379.5575 E: 795037.6485

Mag. Nail In Edge of Pavement 22.7' Lt. 210° Az.
U.S. 20
Mag. Nail In N. Face of 48" Cottonwood Tree
330.96'
100.00'
Mag. Nail In N. Face of 6" Tree
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 296+59.96, 35.98° Rt. "D"

307 N: 403069.6735 E: 795914.7540

U.S. 20
Mag. Nail In N. Face of 6" Tree
Mag. Nail In Edge of Pavement
Hex. Pad Sign on Rail Beam
11.9'
290°
100.00'
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 305+88.72, 35.45° Rt. "D"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

INDIANA DEPARTMENT OF TRANSPORTATION

DESIGNED: LRH DRAWN: BKM
CHECKED: JWG CHECKED: JWG

EROSION CONTROL PLANS
PHASE 1

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| 1"=10' | 1702993 |
| SURVEY BOOK | SHEET |
| | 93 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

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# PRELIMINARY PLANS

SEC. 1, T.37N., R.3W.
SPRINGFIELD TOWNSHIP
LAPORTE COUNTY

CURVE DATA
P.I Sta. 309+75.15 "D"
Δ = 10°09'00" Lt.
R = 8594.36'
T = 763.25'
L = 1522.50'
E = 33.82'

CURVE DATA
P.I Sta. 309+13.57 "PR-D"
Δ = 11°39'49" Lt.
R = 7400.00'
T = 755.81'
L = 1506.40'
E = 38.50'
SE = 2%

STATE OF INDIANA, DNR

ROSSBURG CEMETERY

SEVEN SPRINGS LEGACY, LLC.

20' Distribution Esmt. in Favor of Indiana Michigan Power Co. (Unable to Locate)

General Telephone Esmt. in Favor of American Telephone & Telegraph Co.

General Electric Line Esmt. in Favor of I&M Electric Co.

"Galena Marsh"

Wilhelm Rd.

P.O.C. Sta. 315+00.00 "D"=
P.O.T. Sta. 3+00.00 "S-2-D"
Monument Type B Req'd.

Temp. R/W for Grading

+50.0 "D", 75.4 Lt.

+49.8 "D", 69.4 Lt.

Match Line - Sta. 310+00 "D"

Match Line - Sta. 325+00 "D"

U.S. 20

LINE "D"

LINE "PR-D" (To Be Constructed)

97°24'46"

82°35'14"

P.T. Sta. 316+64.16 "PR-D"
Monument Type B Req'd.

P.O.T. Sta. 317+32.51 "PR-D" (Back)
P.T. Sta. 317+34.40 "D" (Ahead)
Monument Type B Req'd.

S80°08'52"E

P.O.T. Sta. 317+35.03 "PR-D"

Constr. Limits

Temp. R/W for Drive Const.

+25
STR. No. 19,
(CLV-56664)

Temp. R/W for Grading

554 W. Hwy 20
1-Sty. Brk.Comm. Bldg

-D", 150.5 Rt.

Temp. R/W for Grading

+71.6 "PR-D", 151.6 Rt.

ERIK ABRAHAM

+45.5 "PR-D", 132.0 Rt.

P.O.C. Sta. 314+98.31 "PR-D"=
P.O.T. Sta. 2+96.44 "S-2-D"
Monument Type B Req'd.

LINE "S-2-D"

N17°15'54"E

SEC. 1, T.37N., R.3W.
SPRINGFIELD TOWNSHIP
LAPORTE COUNTY

MICHAEL & DIANA KOPCZYK
LOT 7

RICHARD MULLENHOUR
LOT 6

SUTHERLAND HOMES
PT. LOT 5

PT. LOT 5

HENRY & PAMELA PENN
624 W. Hwy 20
1-Sty. Frame Hse.
PT. LOT 4

PT. LOT 3

COREY LOEFFLER
PT. LOT 3

KENT JOHNSON
PT. LOT 2

SUTHERLAND HOMES

GRAZYNA URBANCZYK
LOT 1

Temp. R/W for Drive Const.

Existing Grade Along Line "D"

+25, Inv. El. 737.00 Lt.

+25, Inv. El. 738.20 Rt.
(Plotted 10' Below Datum)

LEGEND

- SILT FENCE
- AREA OF TREE CLEARING
- CULVERT PIPE PROTECTION
- BORING/RECEIVING PIT
- PROTECTED RESOURCE FENCE

NOTE:
1. The Erosion Control Phase 1 Is In Accordance With Maintenance Of Traffic Phase 1.
2. The Contractor Shall Place Protected Resource Sign Every 200' At All Locations Protected Resource Fence Is Required.

308 N: 402935.7035 E: 796389.6090
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 310+80.18, 94.62° Rt. "D"

309 N: 402908.9050 E: 796872.6020
Mag. Nail In E. Face of 24" Cottonwood Tree
R.R. Spike in S.E. Face of Pole #L209-13
75.9' 300° Az.
Boat Spike (Set), Flush
Sta. 315+57.70, 44.81'' Lt. "D"

310 N: 402706.4610 E: 797543.8940
Mag Nail in Edge of Pavement
Mag Nail in N. Face of Util. Pole #L209-20
106.9' 119° Az.
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 322+54.66, 37.98° Rt. "D"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: LRH DRAWN: BKM
CHECKED: JWG CHECKED: JWG

INDIANA DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLANS
PHASE 1

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| 1"=10' | 1702993 |
| SURVEY BOOK | SHEET |
| | 94 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS

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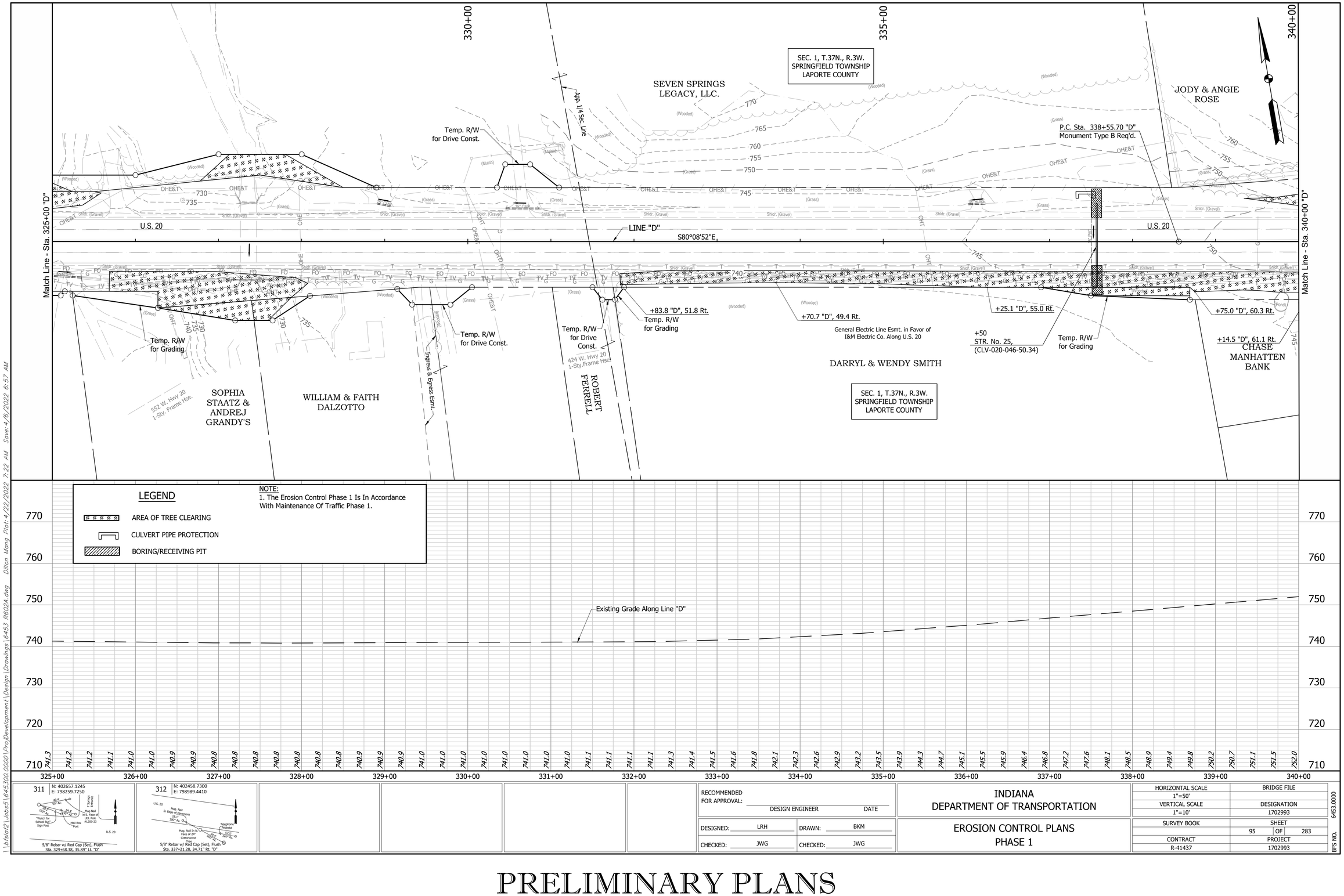


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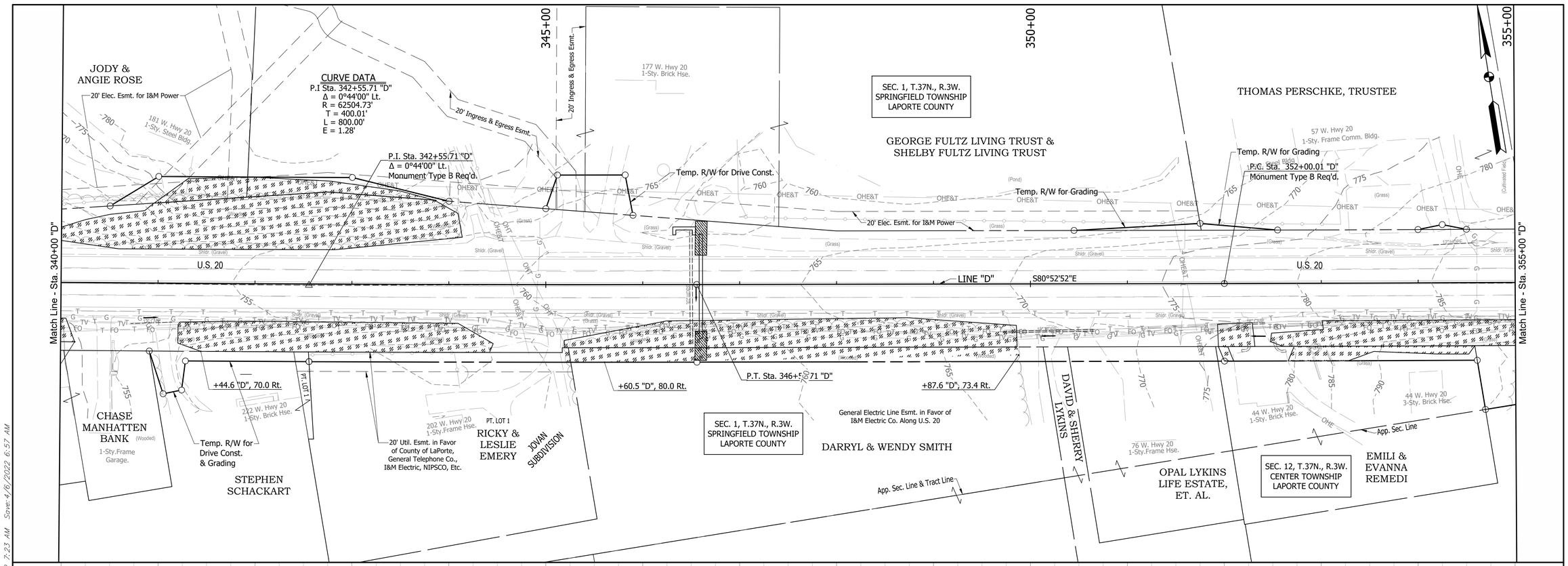
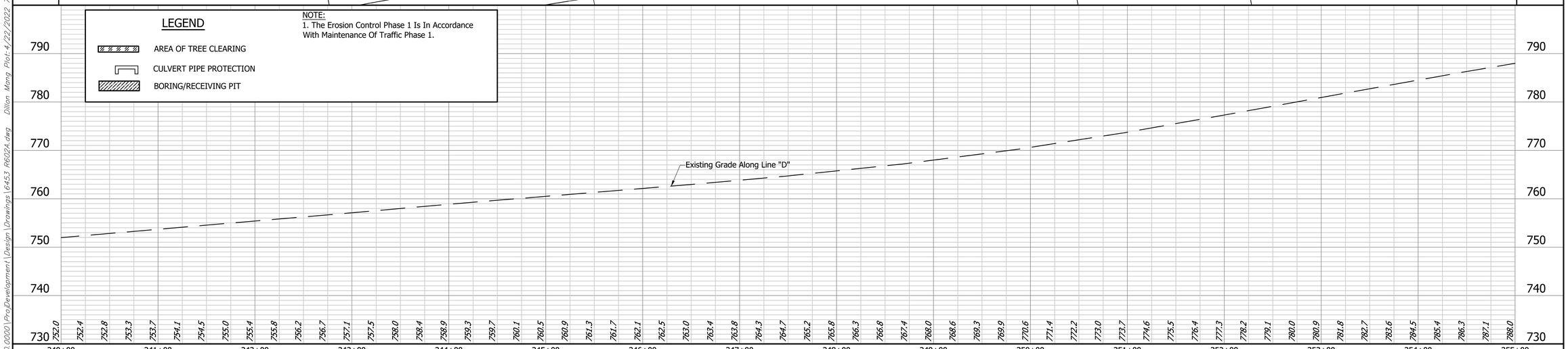
PRELIMINARY PLANS



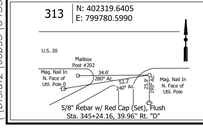

LEGEND

- AREA OF TREE CLEARING
- CULVERT PIPE PROTECTION
- BORING/RECEIVING PIT

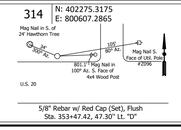
NOTE:
1. The Erosion Control Phase 1 Is In Accordance With Maintenance Of Traffic Phase 1.




313 | N: 402319.6405 | E: 799780.5990




314 | N: 402275.3175 | E: 800607.2865




RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

INDIANA DEPARTMENT OF TRANSPORTATION

DESIGNED: LRH | DRAWN: BKM | CHECKED: JWG | CHECKED: JWG

EROSION CONTROL PLANS PHASE 1

| | |
|---|---|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| 1"=10' | 1702993 |
| SURVEY BOOK | SHEET |
| | 96 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

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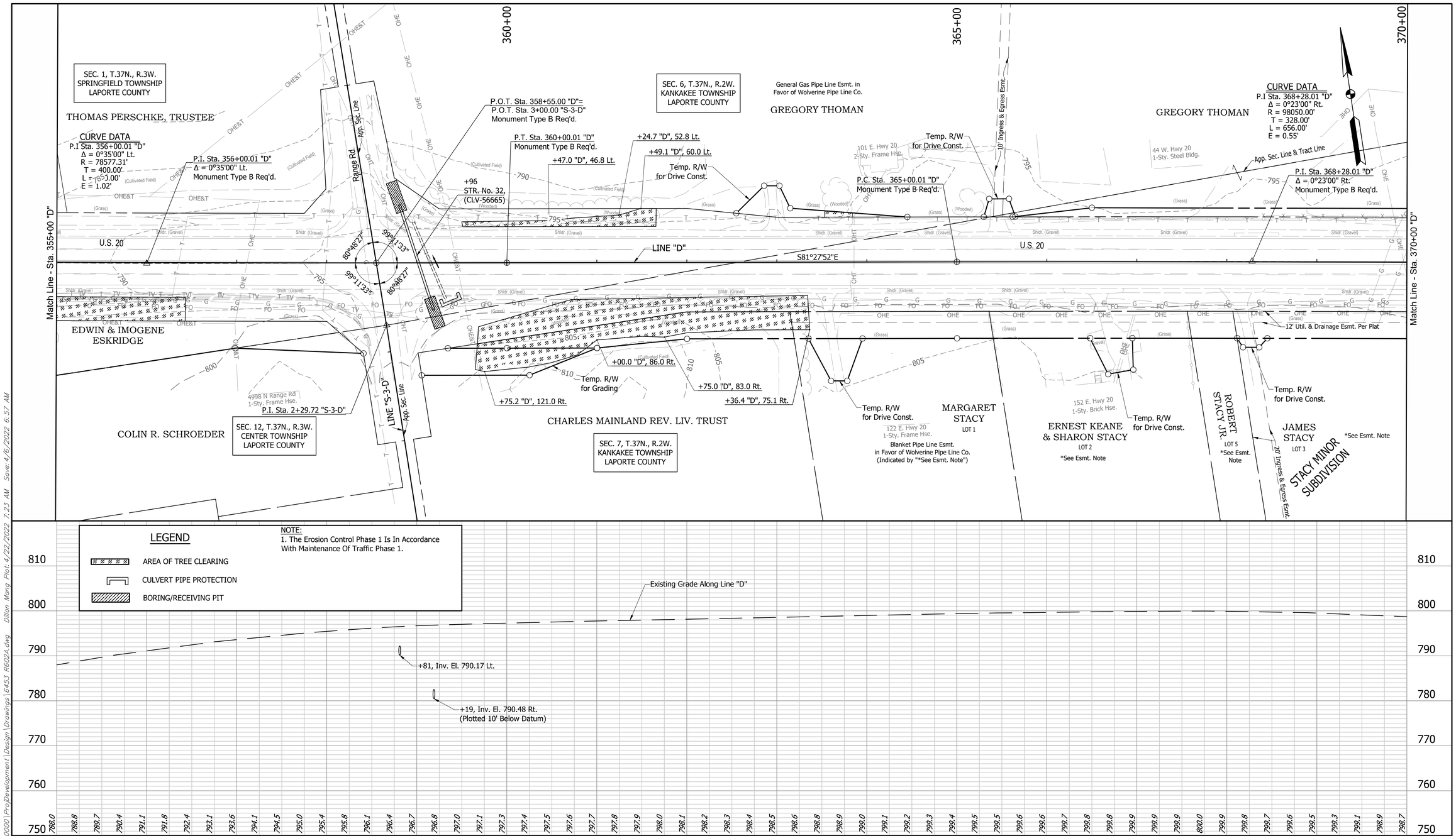
PRELIMINARY PLANS

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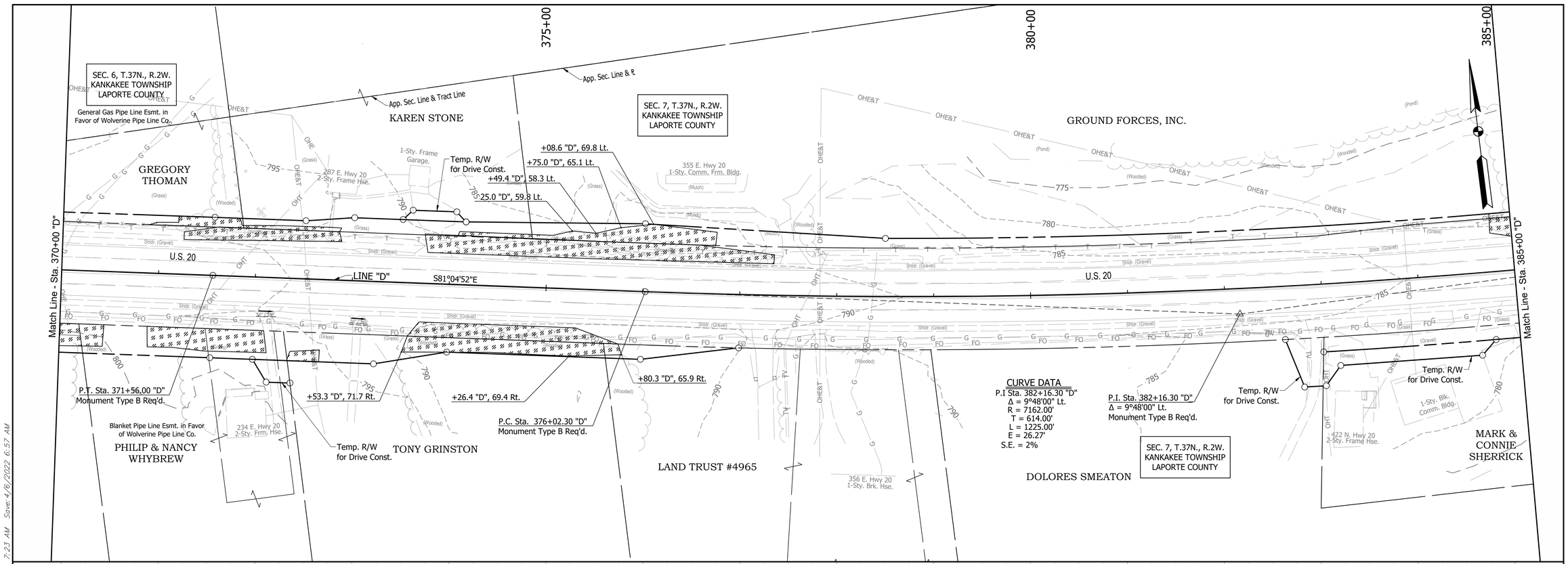
# PRELIMINARY PLANS

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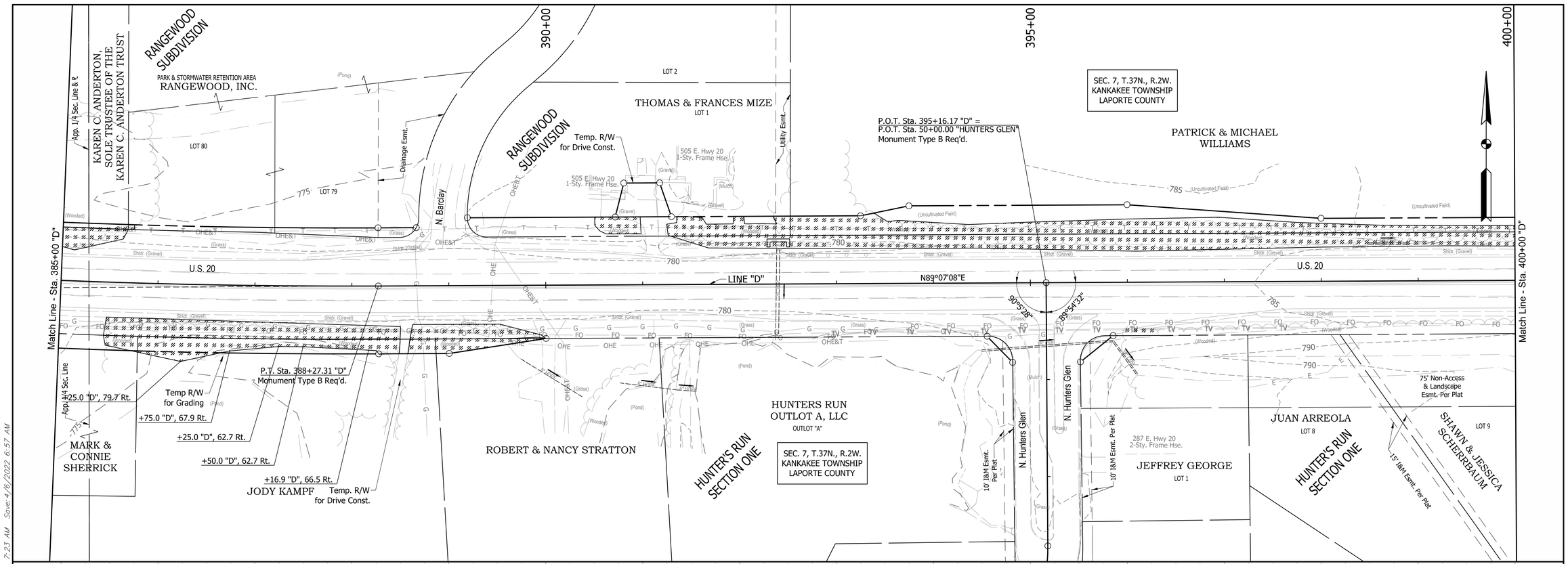
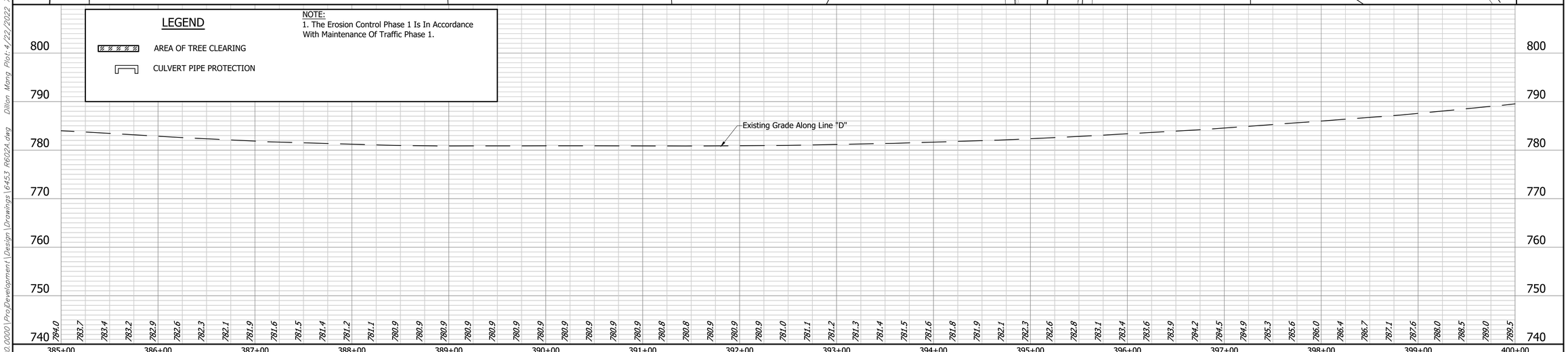
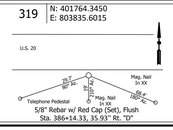
PRELIMINARY PLANS

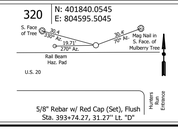



319 | N: 401764.3450 | E: 803835.6015




320 | N: 401840.0545 | E: 804595.5045




RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: LRH | DRAWN: BKM | CHECKED: JWG | CHECKED: JWG

INDIANA DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLANS PHASE 1

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| 1"=10' | 1702993 |
| SURVEY BOOK | SHEET |
| | 99 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

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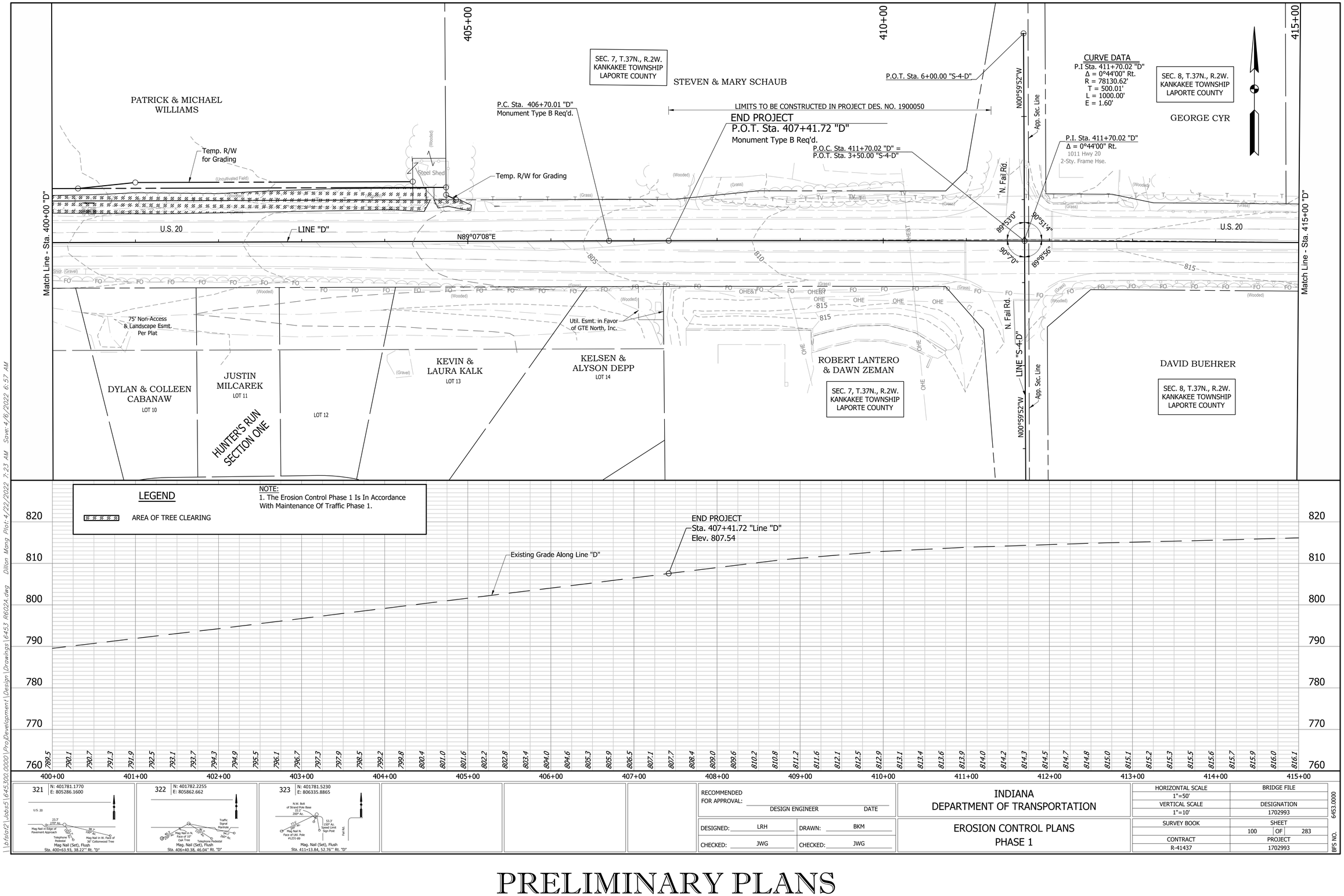
PRELIMINARY PLANS

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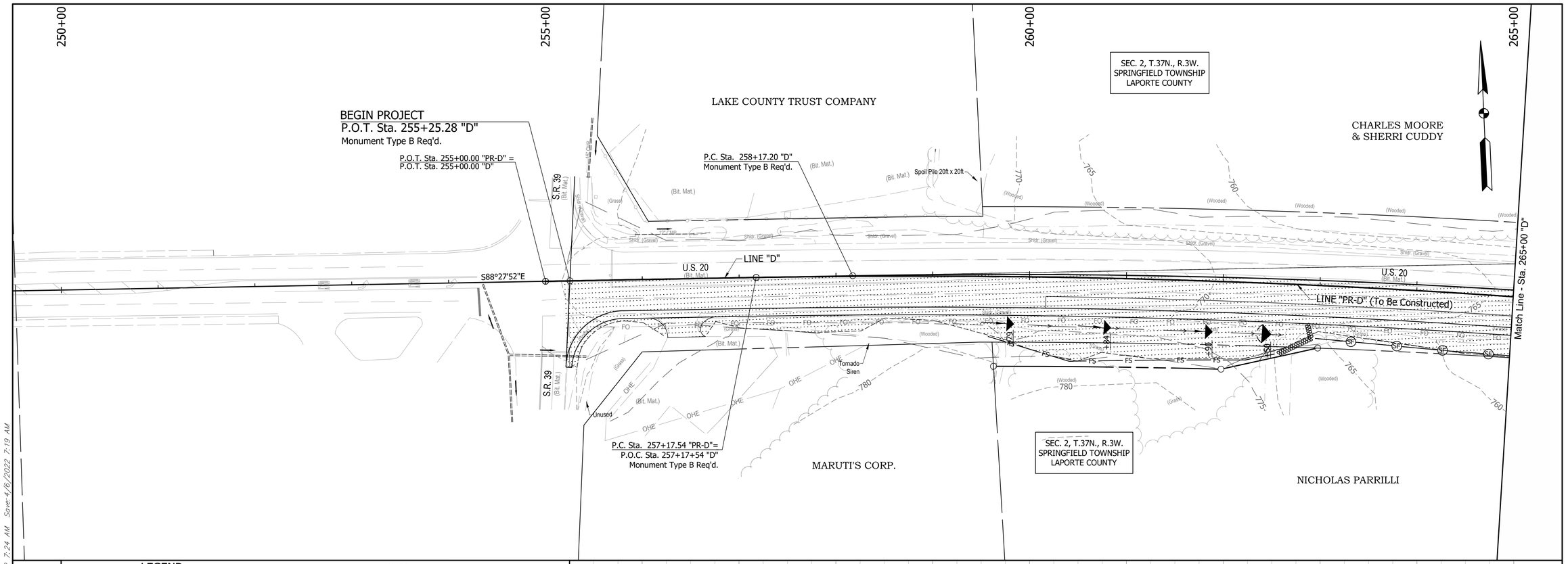
PRELIMINARY PLANS

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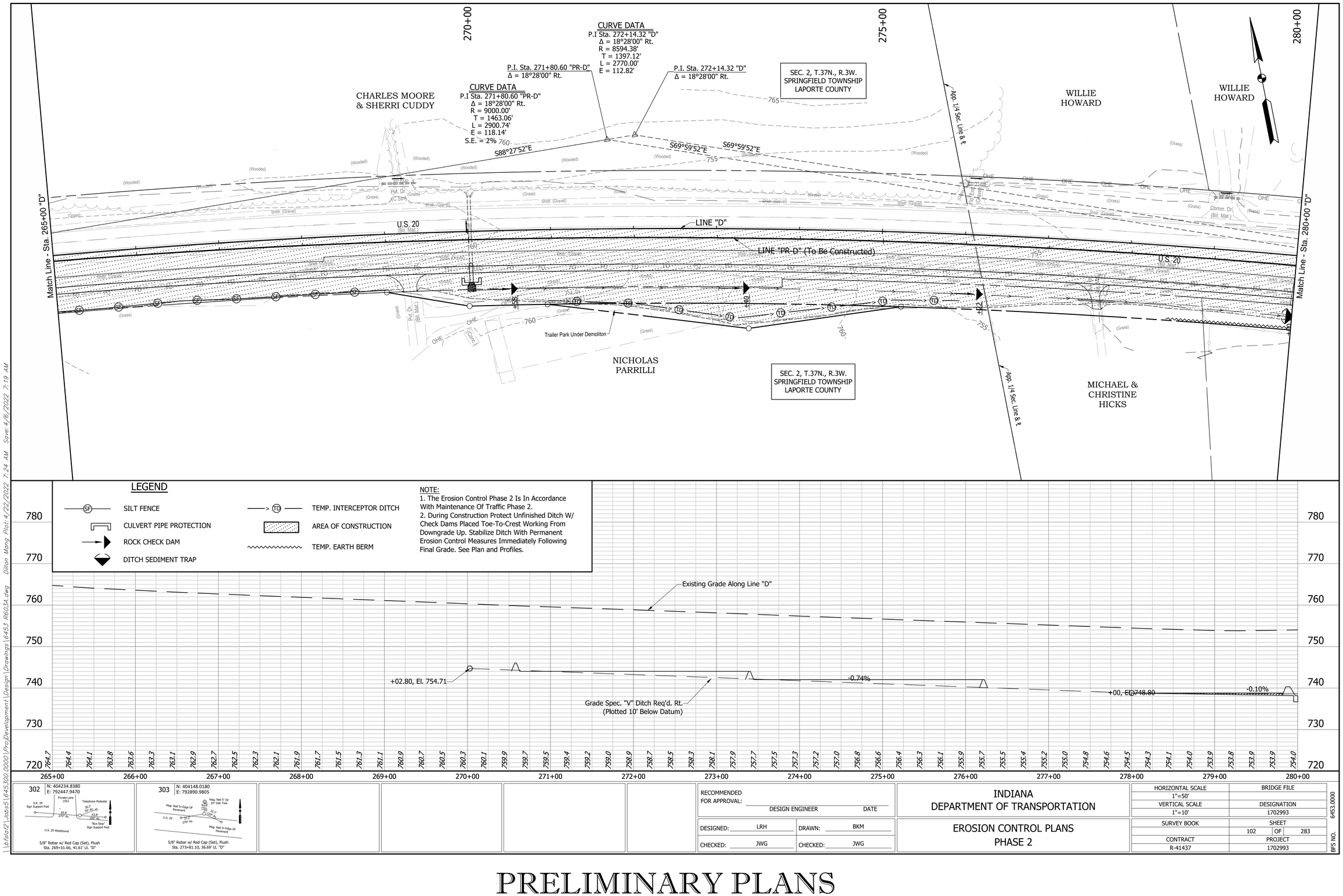
# PRELIMINARY PLANS




LEGEND

- SILT FILTER FENCE
- CULVERT PIPE PROTECTION
- ROCK CHECK DAM
- DITCH SEDIMENT TRAP
- TEMP. INTERCEPTOR DITCH
- AREA OF CONSTRUCTION
- TEMP. EARTH BERM

NOTE:
1. The Erosion Control Phase 2 Is In Accordance With Maintenance Of Traffic Phase 2.
2. During Construction Protect Unfinished Ditch W/ Check Dams Placed Toe-To-Crest Working From Downgrade Up. Stabilize Ditch With Permanent Erosion Control Measures Immediately Following Final Grade. See Plan and Profiles.




302 N: 404234.8380 E: 792447.9470
S.R. 39 Sign Support Post
Private Lane 1553
Telephone Pedestal
65.6' 270° Az.
30.7' 157.5°
33.8' 180° Az.
"Bus Stop" Sign Support Post
U.S. 20 Westbound
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 269+31.66, 41.61' Lt. "D"

303 N: 404148.0180 E: 792890.9805
Mag. Nail 5" Up 24" Oak Tree
Mag. Nail In Edge Of Pavement
U.S. 20
0° 91.2' 270° Az.
22.7' 135° Az.
Mag. Nail In Edge Of Pavement
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 273+81.10, 36.69' Lt. "D"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: LRH DRAWN: BKM
CHECKED: JWG CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLANS
PHASE 2

| | |
|---|---|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| 1"=10' | 1702993 |
| SURVEY BOOK | SHEET |
| | 102 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

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PRELIMINARY PLANS

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285+00

290+00

295+00

Match Line - Sta. 280+00 "D"

Match Line - Sta. 295+00 "D"

WILLIE HOWARD

SEC. 2, T.37N., R.3W.
SPRINGFIELD TOWNSHIP
LAPORTE COUNTY

THE WOODSEDGE COMPANY PARTNERSHIP

P.O.T. Sta. 0+00.00 "S-1-D"

P.O.T. Sta. 290+05.80 "D" =
P.O.T. Sta. 2+00.00 "S-1-D"
Monument Type B Req'd.

P.O.T. Sta. 290+06.87 "PR-D" =
P.O.T. Sta. 2+11.39 "S-1-D"
Monument Type B Req'd.

+30
STR. No. 14, (CLV-56663)

App. Ex. R/W

LINE "S-1-D"

N. 12° W. (Bit. Mat.)

P.T. Sta. 285+87.20 "D"
Monument Type B Req'd.

U.S. 20
(Bit. Mat.)

S69°59'52"E

LINE "D"

LINE "PR-D" (To Be Constructed)

69°41'07"

110°19'07"

Comm. Dr.
(Bit. Mat.)

Thermco

+02
STR. No. 12, (CLV-56661)

+60
STR. No. 13, (CLV-56662)

P.T. Sta. 286+18.28 "PR-D"
Monument Type B Req'd.

DAVID BUELL

TONYA & ANDREW
KALENOWSKY

HAROLD & SANDRA
HENDERSON

SEC. 2, T.37N., R.3W.
SPRINGFIELD TOWNSHIP
LAPORTE COUNTY

JAMES ROTERING

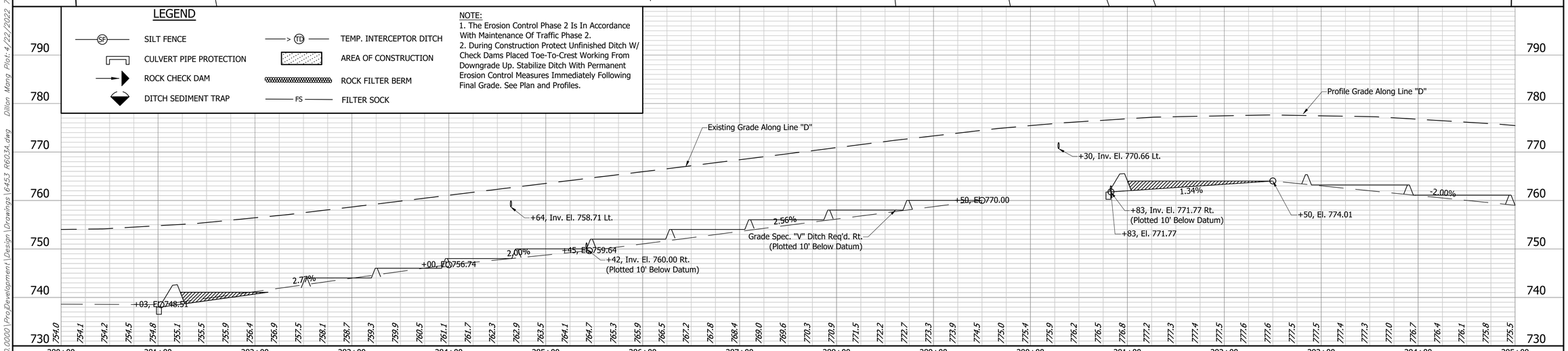
Temp. R/W
for Grading

P.O.T. Sta. 4+00.00 "S-1-D"

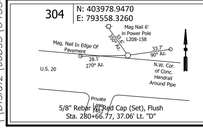
## LEGEND

- SILT FENCE
- CULVERT PIPE PROTECTION
- ROCK CHECK DAM
- DITCH SEDIMENT TRAP
- TEMP. INTERCEPTOR DITCH
- AREA OF CONSTRUCTION
- ROCK FILTER BERM
- FILTER SOCK

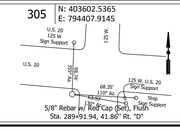
NOTE:
1. The Erosion Control Phase 2 Is In Accordance With Maintenance Of Traffic Phase 2.
2. During Construction Protect Unfinished Ditch W/ Check Dams Placed Toe-To-Crest Working From Downgrade Up. Stabilize Ditch With Permanent Erosion Control Measures Immediately Following Final Grade. See Plan and Profiles.




304 | N: 403978.9470 E: 793558.3260




305 | N: 403602.5365 E: 794407.9145




RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: LRH | DRAWN: BKM

CHECKED: JWG | CHECKED: JWG

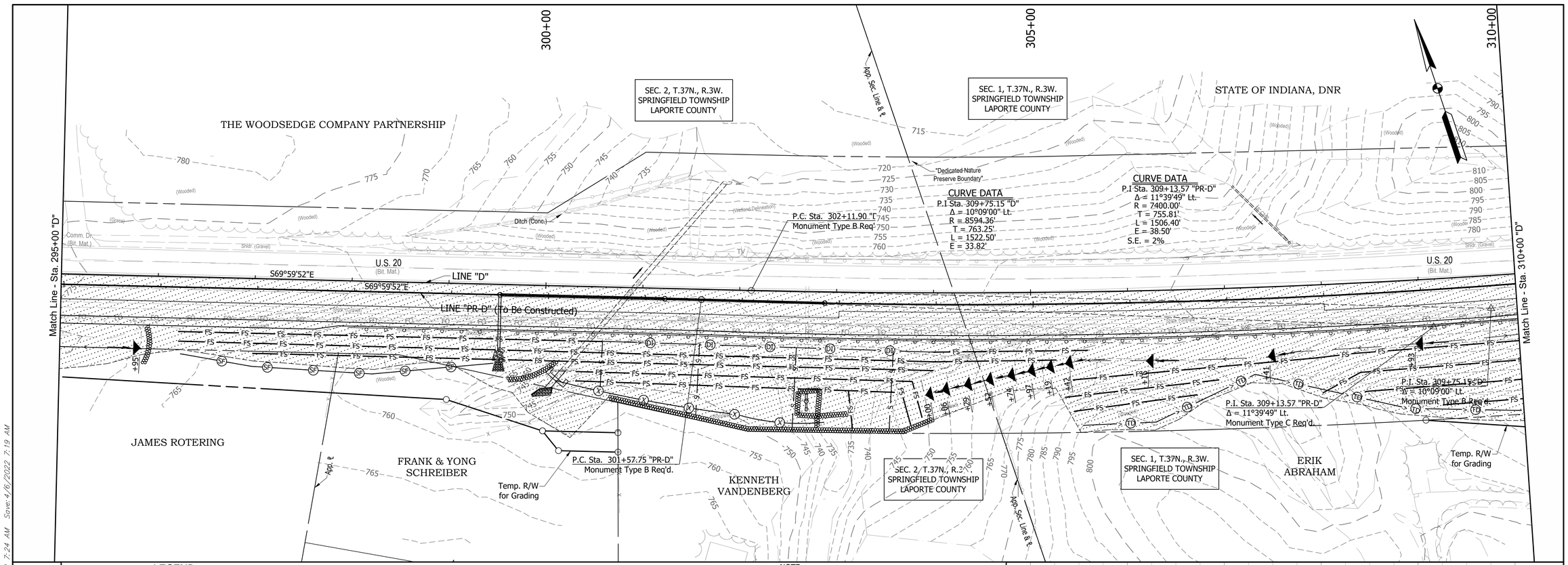
INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLANS
PHASE 2

| | |
|---|---|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| 1"=10' | 1702993 |
| SURVEY BOOK | SHEET |
| | 103 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

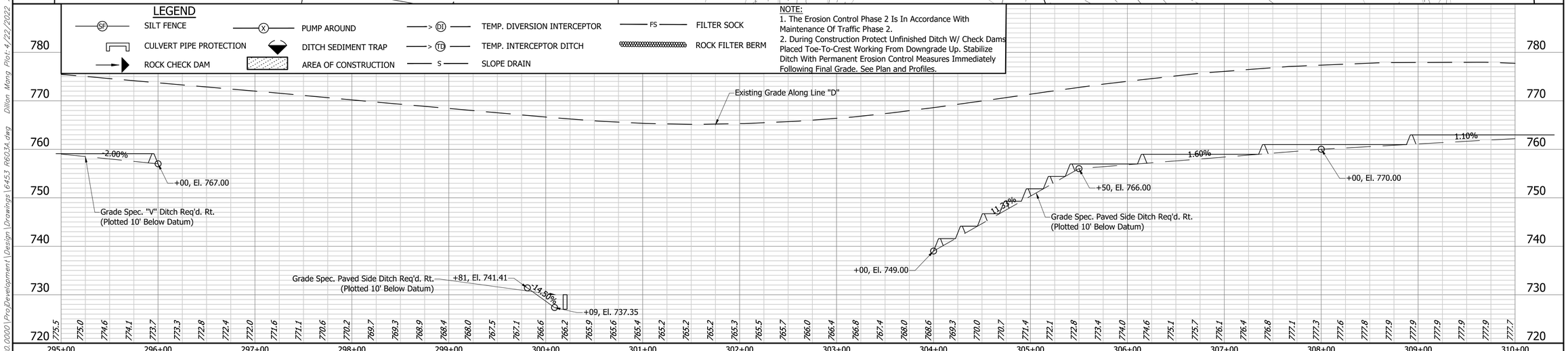
# PRELIMINARY PLANS




## LEGEND

- SF — SILT FENCE
- X — PUMP AROUND
- DI — TEMP. DIVERSION INTERCEPTOR
- FS — FILTER SOCK
- CULVERT PIPE PROTECTION
- DITCH SEDIMENT TRAP
- TD — TEMP. INTERCEPTOR DITCH
- ROCK FILTER BERM
- ROCK CHECK DAM
- AREA OF CONSTRUCTION
- S — SLOPE DRAIN

NOTE:
1. The Erosion Control Phase 2 Is In Accordance With Maintenance Of Traffic Phase 2.
2. During Construction Protect Unfinished Ditch W/ Check Dams Placed Toe-To-Crest Working From Downgrade Up. Stabilize Ditch With Permanent Erosion Control Measures Immediately Following Final Grade. See Plan and Profiles.




306 — N: 403379.5575, E: 795037.6485
Mag. Nail In Edge of Pavement 22.7' 310° Az. Obv.
U.S. 20
Mag. Nail In N. Face of 48" Cottonwood Tree
Mag. Nail In N. Face of 6" Tree
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 296+59.96, 35.98'' Rt. "D"

307 — N: 403069.6735, E: 795914.7540
U.S. 20
Hac. Pad Sign on Rail Beam
Mag. Nail In N. Face of 6" Tree
Mag. Nail In Edge of Pavement
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 305+88.72, 35.45'' Rt. "D"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

INDIANA DEPARTMENT OF TRANSPORTATION

DESIGNED: LRH | DRAWN: BKM
CHECKED: JWG | CHECKED: JWG

EROSION CONTROL PLANS
PHASE 2

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| 1"=10' | 1702993 |
| SURVEY BOOK | SHEET |
| | 104 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

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# PRELIMINARY PLANS

SEC. 1, T.37N., R.3W.
SPRINGFIELD TOWNSHIP
LAPORTE COUNTY

STATE OF INDIANA, DNR

ROSSBURG CEMETERY

SEVEN SPRINGS LEGACY, LLC.

20' Distribution Esmt. in Favor of Indiana Michigan Power Co. (Unable to Locate)

General Telephone Esmt. in Favor of American Telephone & Telegraph Co.

General Electric Line Esmt. in Favor of I&M Electric Co.

315+00

320+00

325+00

Match Line - Sta. 310+00 "D"

Match Line - Sta. 325+00 "D"

U.S. 20 (Bit. Mat.)

Wilhelm Rd. (Bit. Mat.)

"Galena Marsh"

CURVE DATA
P.I Sta. 309+75.15 "D"
Δ = 10°09'00" Lt.
R = 8594.36'
T = 763.25'
L = 1522.50'
E = 33.82'

P.O.C. Sta. 315+00.00 "D"=
P.O.T. Sta. 3+00.00 "S-2-D"
Monument Type B Req'd.

P.T. Sta. 316+64.16 "PR-D"
Monument Type B Req'd.

P.O.T. Sta. 317+32.51 "PR-D" (Back)
P.T. Sta. 317+34.40 "D" (Ahead)
Monument Type B Req'd.

P.O.T. Sta. 317+35.03 "PR-D"

97°24'46"

82°35'14"

S80°08'52"E

LINE "D"

LINE "PR-D" (To Be Constructed)

LINE "S-2-D"

N17°15'54"E

Temp. R/W for Grading

Temp. R/W for Drive Const.

Ditch (Conc.)

+40
STR. No. 19,
(CLV-56664)

554 W. Hwy 20
1-Sty. Brk Comm. Bldg

624 W. Hwy 20
1-Sty. Frame Hse.

MICHAEL & DIANA KOPCZYK
LOT 7

RICHARD MULLENHOUR
LOT 6

SUTHERLAND HOMES

PT. LOT 5

HENRY & PAMELA PENN
PT. LOT 4

PT. LOT 3

COREY LOEFFLER
PT. LOT 3

KENT JOHNSON
PT. LOT 2

SUTHERLAND HOMES

GRAZYNA URBANCZYK
LOT 1

ERIK ABRAHAM

CURVE DATA
P.I Sta. 309+13.57 "PR-D"
Δ = 11°39'49" Lt.
R = 7400.00'
T = 755.81'
L = 1506.40'
E = 38.50'

SEC. 1, T.37N., R.3W.
SPRINGFIELD TOWNSHIP
LAPORTE COUNTY

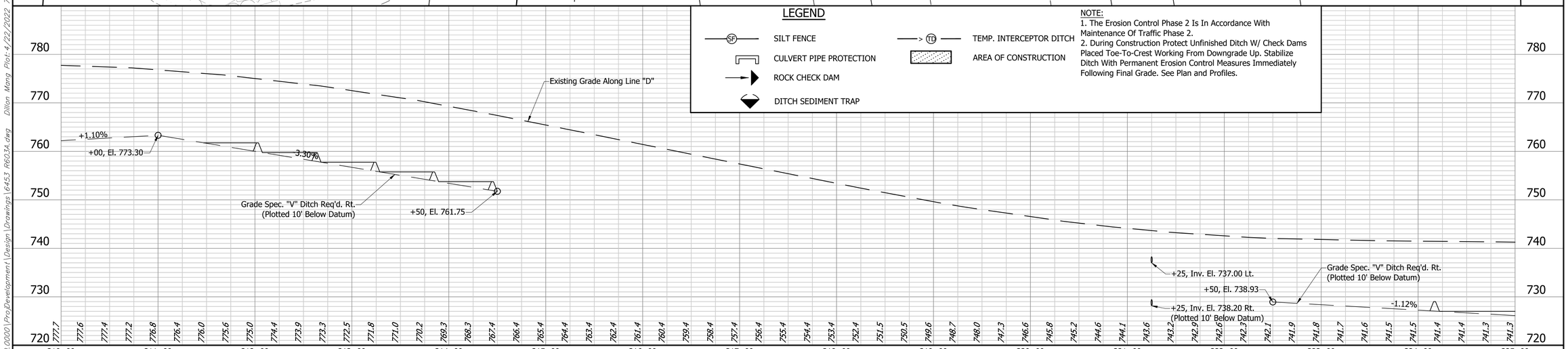
P.O.C. Sta. 314+98.31 "PR-D"=
P.O.T. Sta. 2+96.44 "S-2-D"
Monument Type B Req'd.

Temp. R/W for Grading

LEGEND

- SILT FENCE
- CULVERT PIPE PROTECTION
- ROCK CHECK DAM
- DITCH SEDIMENT TRAP
- TEMP. INTERCEPTOR DITCH
- AREA OF CONSTRUCTION

NOTE:
1. The Erosion Control Phase 2 Is In Accordance With Maintenance Of Traffic Phase 2.
2. During Construction Protect Unfinished Ditch W/ Check Dams Placed Toe-To-Crest Working From Downgrade Up. Stabilize Ditch With Permanent Erosion Control Measures Immediately Following Final Grade. See Plan and Profiles.




308 | N: 402935.7035 | E: 796389.6090
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 310+80.18, 34.62' Rt. "D"

309 | N: 402908.9050 | E: 796872.6020
Boat Spike (Set), Flush
Sta. 315+57.70, 44.81'' Lt. "D"

310 | N: 402706.4610 | E: 797543.8940
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 322+54.66, 37.98'' Rt. "D"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: LRH DRAWN: BKM
CHECKED: JWG CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLANS
PHASE 2

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| 1"=10' | 1702993 |
| SURVEY BOOK | SHEET |
| 105 | OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

Save: 4/6/2022 7:19 AM
Plot: 4/22/2022 7:25 AM
Dillon Mang
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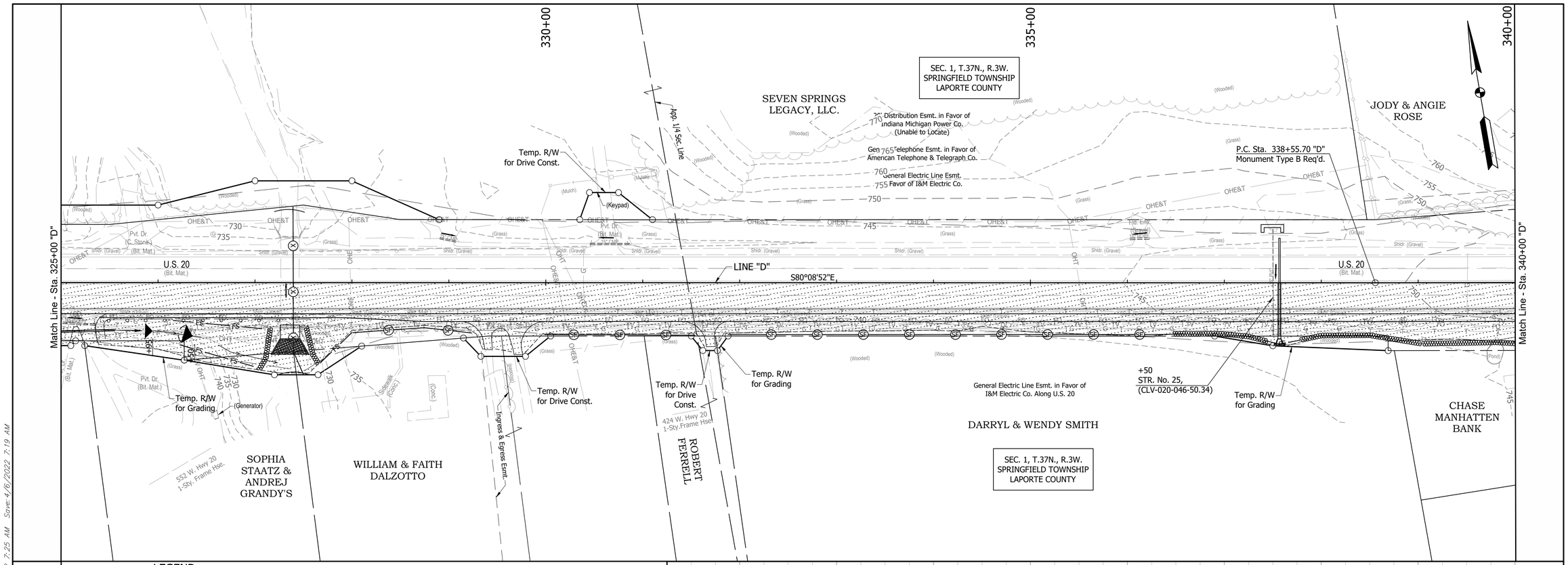
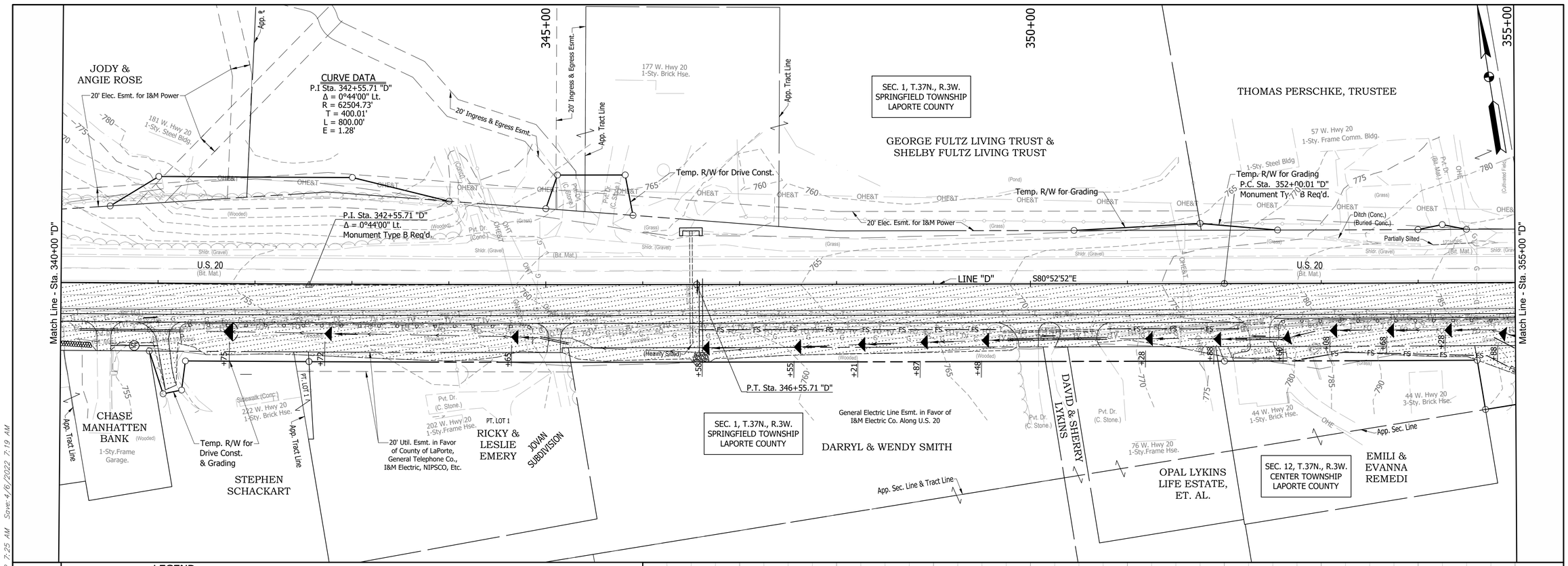
# PRELIMINARY PLANS


330+00
335+00
340+00
SEC. 1, T.37N., R.3W.
SPRINGFIELD TOWNSHIP
LAPORTE COUNTY
SEVEN SPRINGS LEGACY, LLC.
JODY & ANGIE ROSE
Appr. 1/4 Sec. Line
Temp. R/W for Drive Const.
(Keypad)
30' Distribution Esmt. in Favor of Indiana Michigan Power Co. (Unable to Locate)
General Telephone Esmt. in Favor of American Telephone & Telegraph Co.
General Electric Line Esmt. in Favor of I&M Electric Co.
P.C. Sta. 338+55.70 "D"
Monument Type B Req'd.
Match Line - Sta. 325+00 "D"
Match Line - Sta. 340+00 "D"
U.S. 20
(Bit. Mat.)
LINE "D"
S80°08'52"E,
Pvt. Dr. (C. Stone) (Bit. Mat.)
Pvt. Dr. (Bit. Mat.)
Temp. R/W for Grading
(Generator)
Temp. R/W for Drive Const.
Temp. R/W for Drive Const.
Temp. R/W for Grading
General Electric Line Esmt. in Favor of I&M Electric Co. Along U.S. 20
+50 STR. No. 25, (CLV-020-046-50.34)
Temp. R/W for Grading
CHASE MANHATTEN BANK
DARRYL & WENDY SMITH
SOPHIA STAATZ & ANDREJ GRANDY'S
552 W. Hwy 20 1-Sty. Frame Hse.
WILLIAM & FAITH DALZOTTO
ROBERT FERRELL
424 W. Hwy 20 1-Sty. Frame Hse.
Ingress & Egress Esmt.
SEC. 1, T.37N., R.3W.
SPRINGFIELD TOWNSHIP
LAPORTE COUNTY
OHE&T
Shldr. (Gravel)
(Wooded)
(Grass)
(Mulch)
(Pond)
(Conc.)
Sidewalk (Conc.)
Fnd. Entr. (Gravel)
Fnd. Mtl.
Fnd. Conc.
Ex. Mtl. Bldg.
Ex. Conc. Bldg.
Ex. Frame Bldg.
Ex. Mtl. Shed
Ex. Frame Shed
Ex. Conc. Shed
Ex. Mtl. Garage
Ex. Frame Garage
Ex. Conc. Garage
Ex. Mtl. Barn
Ex. Frame Barn
Ex. Conc. Barn
Ex. Mtl. Silo
Ex. Conc. Silo
Ex. Mtl. Grain Bin
Ex. Conc. Grain Bin
Ex. Mtl. Pole Barn
Ex. Frame Pole Barn
Ex. Conc. Pole Barn
Ex. Mtl. Pole Shed
Ex. Frame Pole Shed
Ex. Conc. Pole Shed
Ex. Mtl. Pole Garage
Ex. Frame Pole Garage
Ex. Conc. Pole Garage

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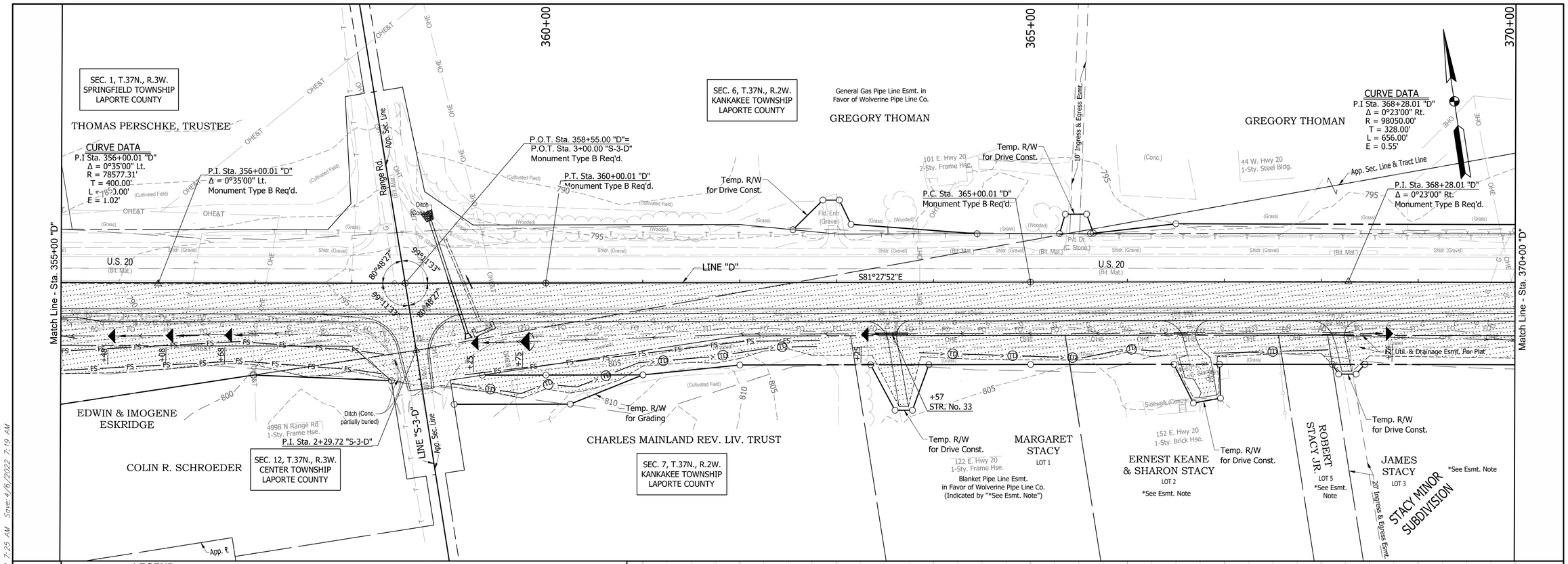
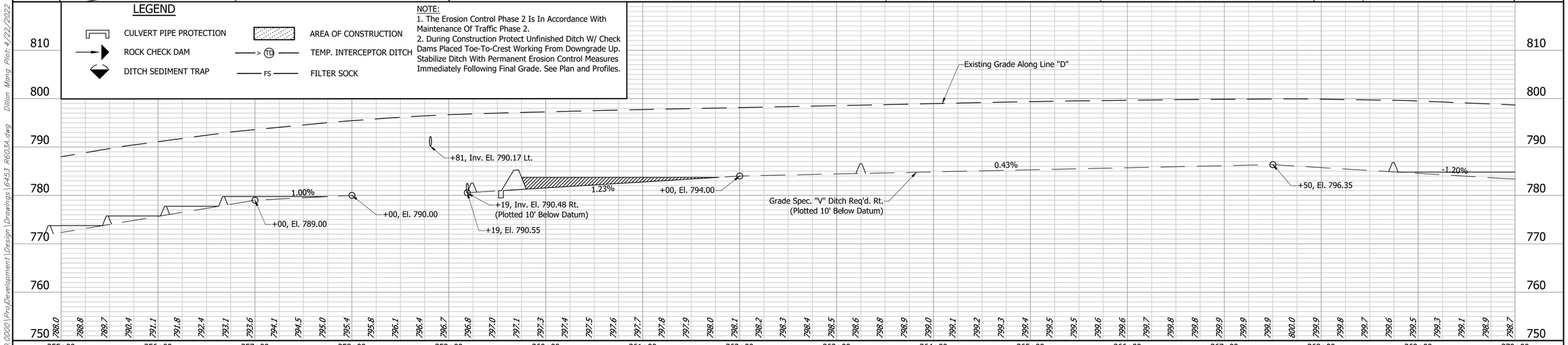
PRELIMINARY PLANS

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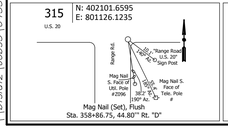
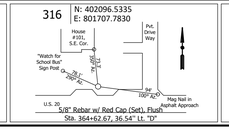



316 | N: 402096.5335 | E: 801707.7830




RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: LRH | DRAWN: BKM | CHECKED: JWG | CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLANS
PHASE 2

| | |
|---|---|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| 1"=10' | 1702993 |
| SURVEY BOOK | SHEET |
| | 108 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

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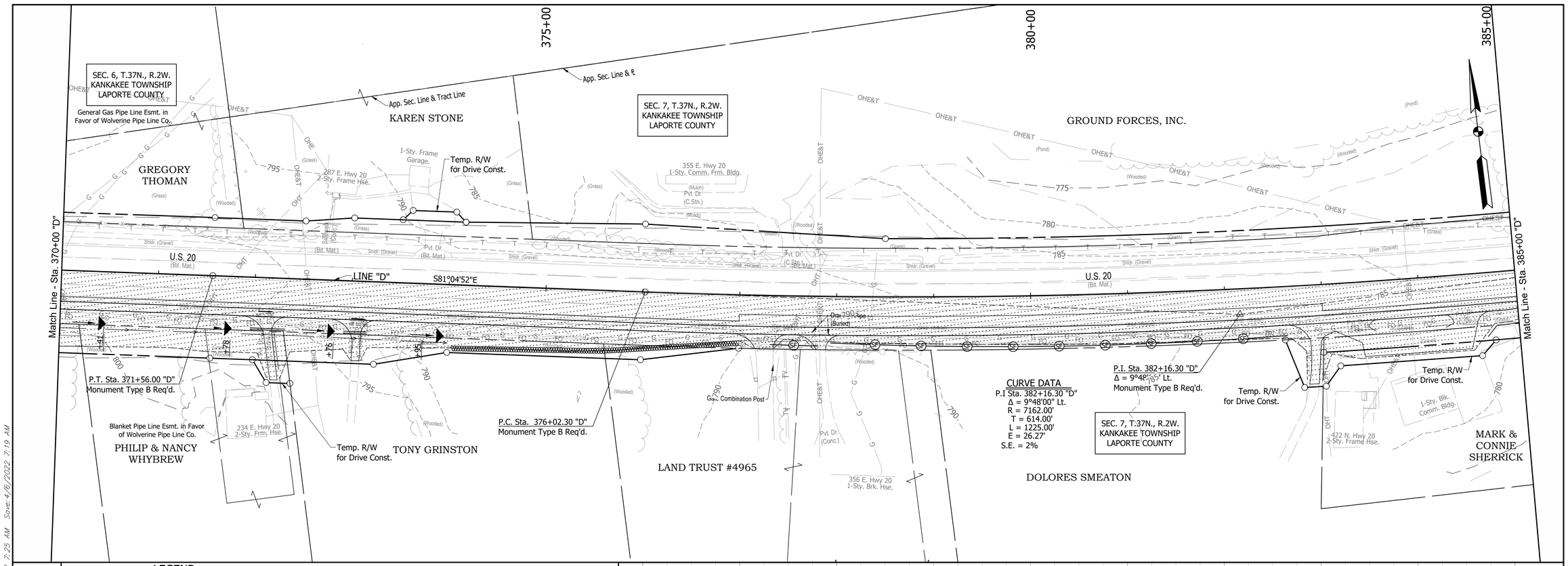
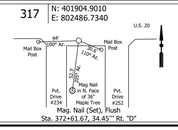
PRELIMINARY PLANS

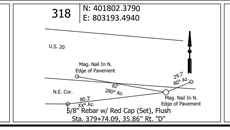



317 | N: 401904.9010 E: 802486.7340




Mag. Nail (Set), Flush
Sta. 372+61.67, 34.45'' Rt. "D"

318 | N: 401802.3790 E: 803193.4940




5/8" Rebar w/ Red Cap (Set), Flush
Sta. 379+74.09, 35.86'' Rt. "D"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: LRH | DRAWN: BKM

CHECKED: JWG | CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLANS
PHASE 2

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| 1"=10' | 1702993 |
| SURVEY BOOK | SHEET |
| | 109 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

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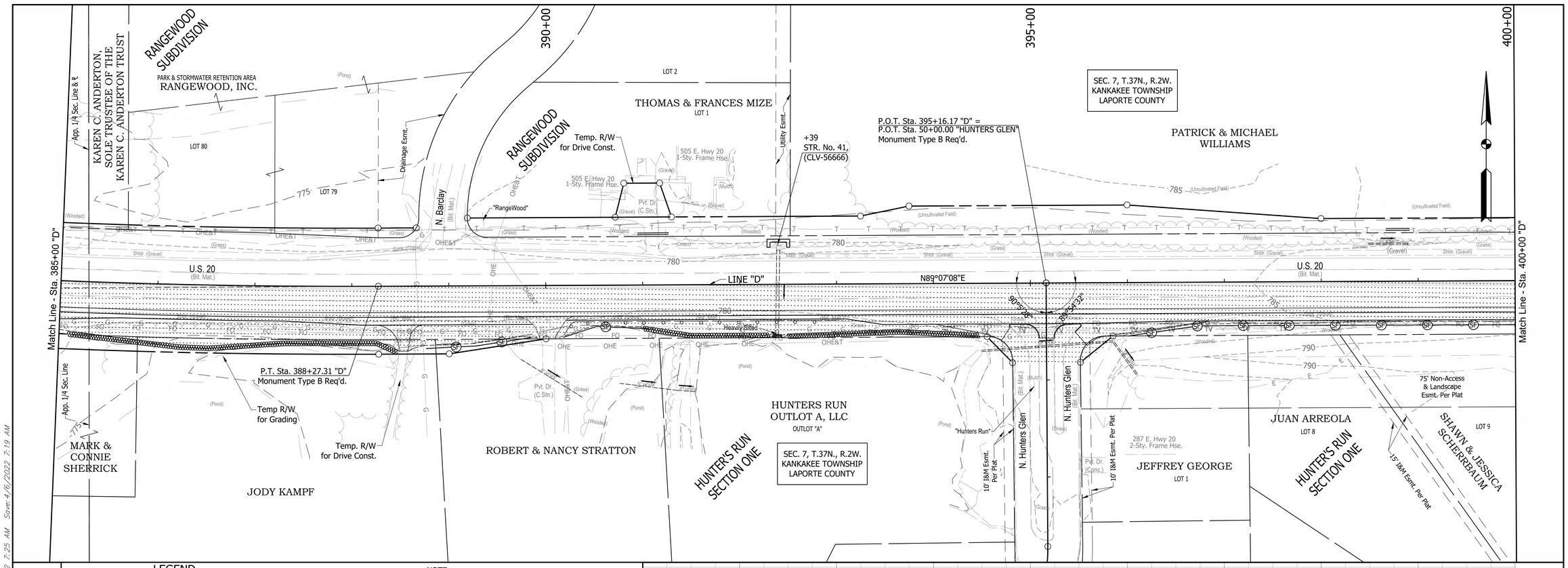
PRELIMINARY PLANS




RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: LRH DRAWN: BKM

CHECKED: JWG CHECKED: JWG

INDIANA DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLANS PHASE 2

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| 1"=10' | 1702993 |
| SURVEY BOOK | SHEET |
| | 110 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

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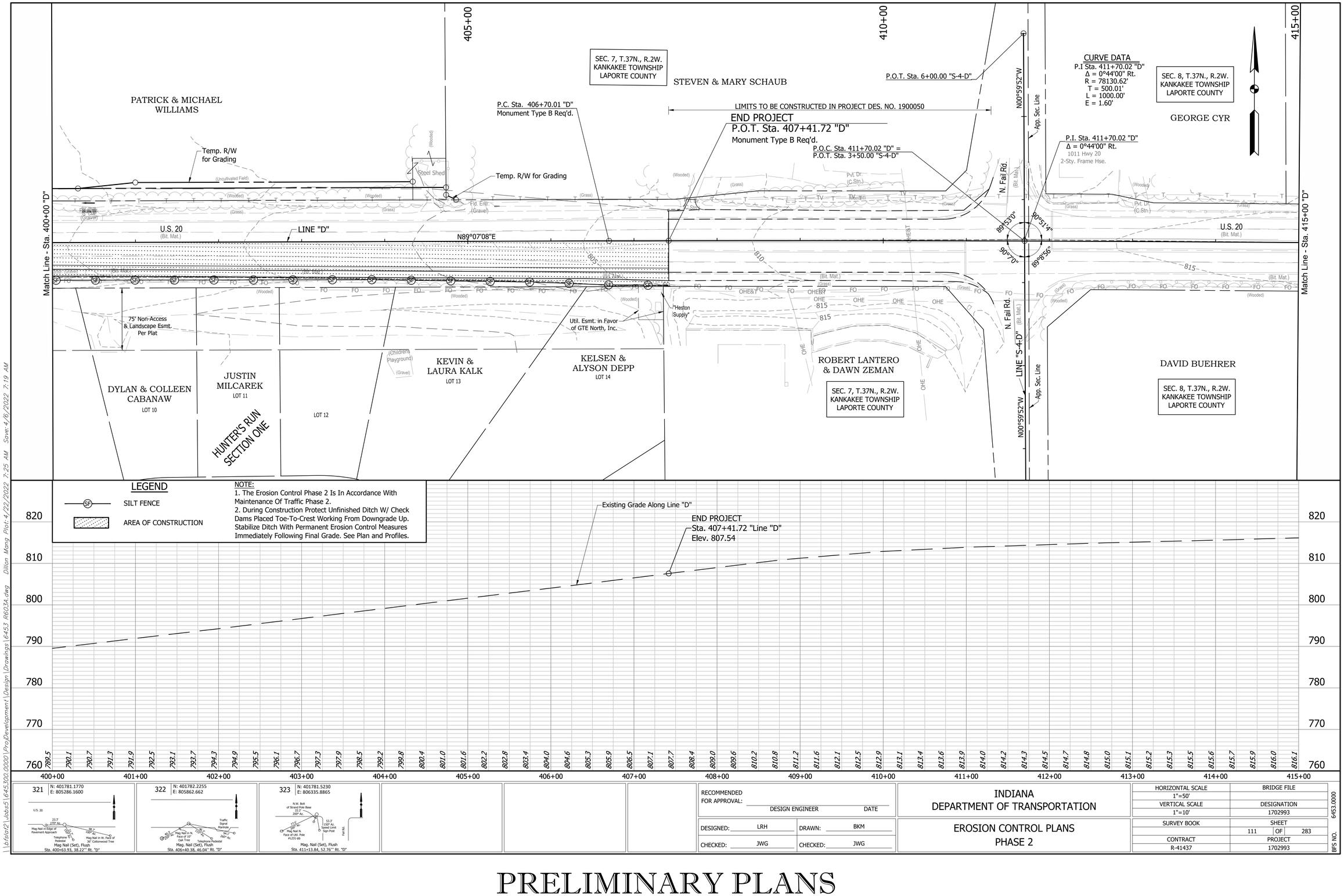
PRELIMINARY PLANS




LEGEND

SF — SILT FENCE

AREA OF CONSTRUCTION

NOTE:
1. The Erosion Control Phase 2 Is In Accordance With Maintenance Of Traffic Phase 2.
2. During Construction Protect Unfinished Ditch W/ Check Dams Placed Toe-To-Crest Working From Downgrade Up. Stabilize Ditch With Permanent Erosion Control Measures Immediately Following Final Grade. See Plan and Profiles.




321 | N: 401781.1770 E: 805286.1600
Mag Nail (Set), Flush
Sta. 400+63.93, 38.22'" Rt. "D"

322 | N: 401782.2255 E: 805862.662
Mag. Nail (Set), Flush
Sta. 406+40.38, 46.04'" Rt. "D"

323 | N: 401781.5230 E: 806335.8865
Mag. Nail (Set), Flush
Sta. 411+13.84, 52.76'" Rt. "D"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

INDIANA DEPARTMENT OF TRANSPORTATION

DESIGNED: LRH DRAWN: BKM

CHECKED: JWG CHECKED: JWG

EROSION CONTROL PLANS
PHASE 2

| | |
|---|---|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| 1"=10' | 1702993 |
| SURVEY BOOK | SHEET |
| | 111 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS

\\bfla02\Jobs\645300 0000\ProDevelopment\Design\Drawings\6453 R603A.dwg Dillon Mong Plot: 4/22/2022 7:25 AM Saved: 4/6/2022 7:19 AM

250+00 255+00 260+00 265+00

SEC. 2, T.37N., R.3W.
SPRINGFIELD TOWNSHIP
LAPORTE COUNTY

LAKE COUNTY TRUST COMPANY

CHARLES MOORE
& SHERRI CUDDY

BEGIN PROJECT
P.O.T. Sta. 255+25.28 "D"
Monument Type B Req'd.

P.O.T. Sta. 255+00.00 "PR-D" =
P.O.T. Sta. 255+00.00 "D"

T.B.M. #1
X Chisled in E bolt traffic
light support pole
Elev. 768.04

P.C. Sta. 258+17.20 "D"
Monument Type B Req'd.

S.R. 39

U.S. 20

LINE "D"

S88°27'52"E

LINE "PR-D" (To Be Constructed)

Match Line - Sta. 265+00 "D"

"Digzy Dogz & Grill"

"Burkhart Billboards"

"Marines"

P.C. Sta. 257+17.54 "PR-D"=
P.O.C. Sta. 257+17+54 "D"
Monument Type B Req'd.

MARUTI'S CORP.

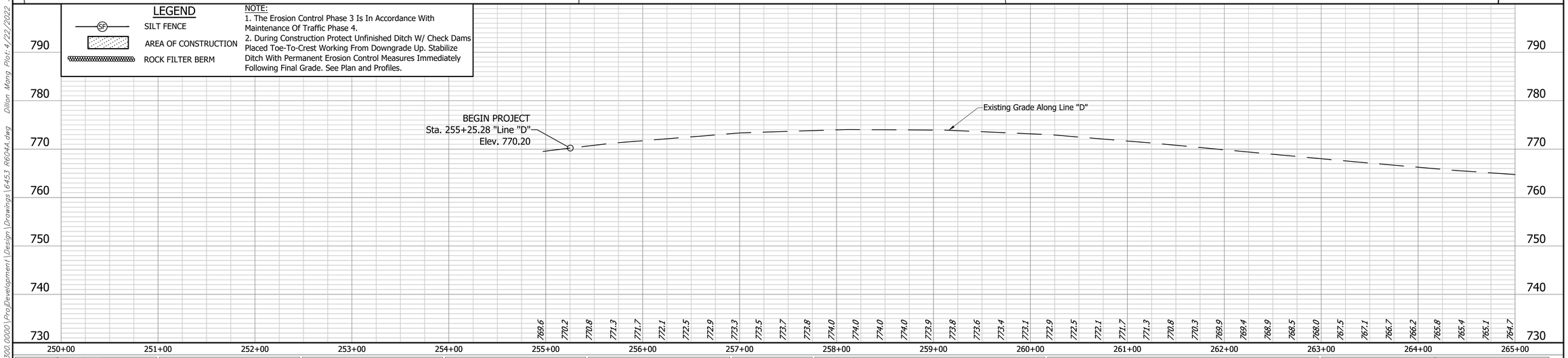
SEC. 2, T.37N., R.3W.
SPRINGFIELD TOWNSHIP
LAPORTE COUNTY

NICHOLAS PARRILLI

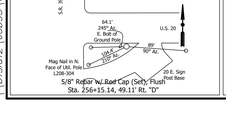
**LEGEND**

- SF — SILT FENCE
- AREA OF CONSTRUCTION
- ROCK FILTER BERM

NOTE:
1. The Erosion Control Phase 3 Is In Accordance With Maintenance Of Traffic Phase 4.
2. During Construction Protect Unfinished Ditch W/ Check Dams Placed Toe-To-Crest Working From Downgrade Up. Stabilize Ditch With Permanent Erosion Control Measures Immediately Following Final Grade. See Plan and Profiles.

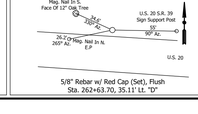



300 N: 404251.9695 E: 791129.1460




5/8" Rebar w/ Red Cap (Set), Flush
Sta. 256+15.14, 49.11' Rt. "D"

301 N: 404307.1000 E: 791781.0435




5/8" Rebar w/ Red Cap (Set), Flush
Sta. 262+63.70, 35.11' Lt. "D"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

INDIANA
DEPARTMENT OF TRANSPORTATION

DESIGNED: LRH DRAWN: BKM
CHECKED: JWG CHECKED: JWG

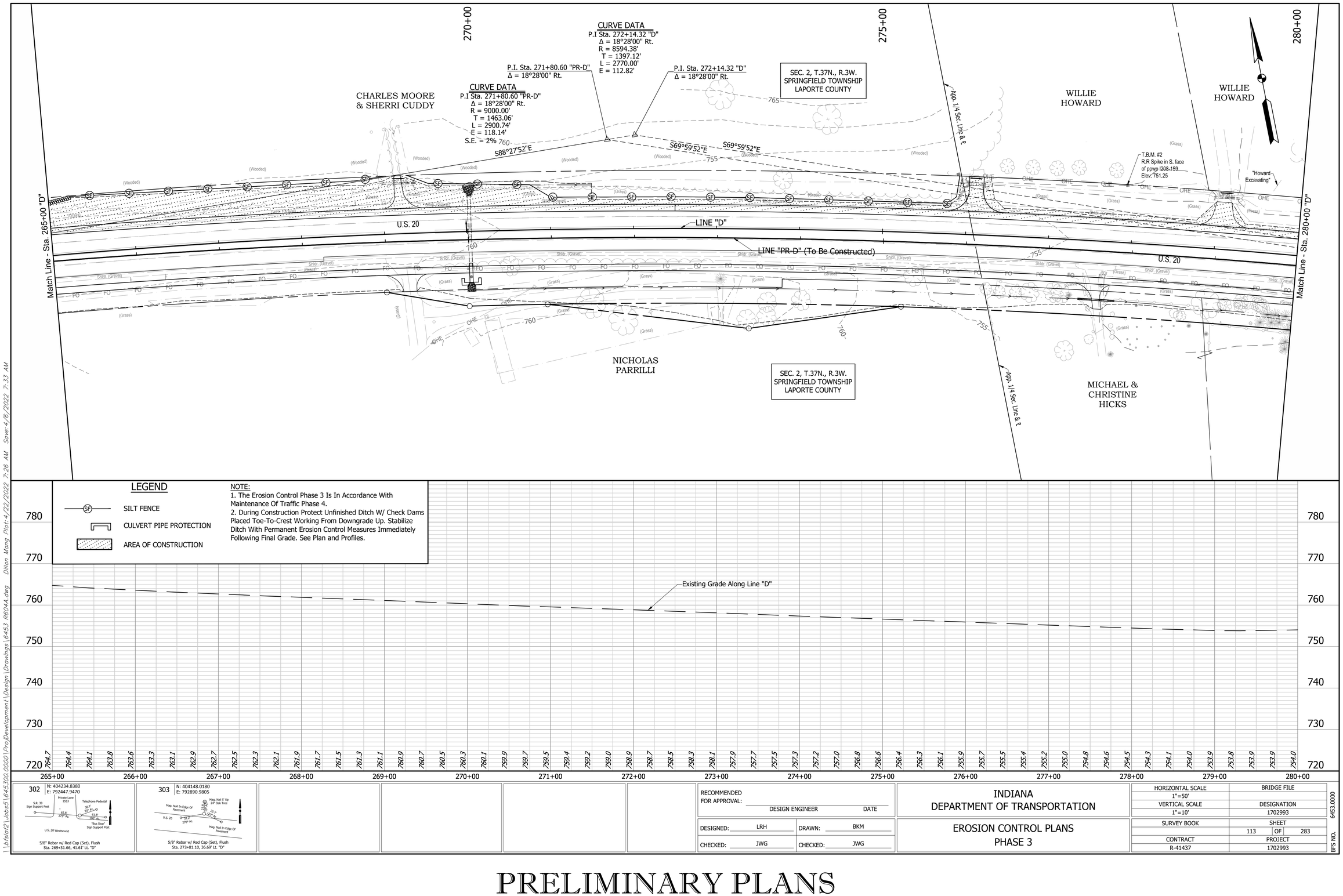
EROSION CONTROL PLANS
PHASE 3

| | |
|---|---|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| 1"=10' | 1702993 |
| SURVEY BOOK | SHEET |
| | 112 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

\\bfsfs2\Jobs\6453.0000\ProDevelopment\Design\Drawings\6453_R6044.dwg Dillon Mong Plot: 4/22/2022 7:26 AM Save: 4/6/2022 7:33 AM

# PRELIMINARY PLANS

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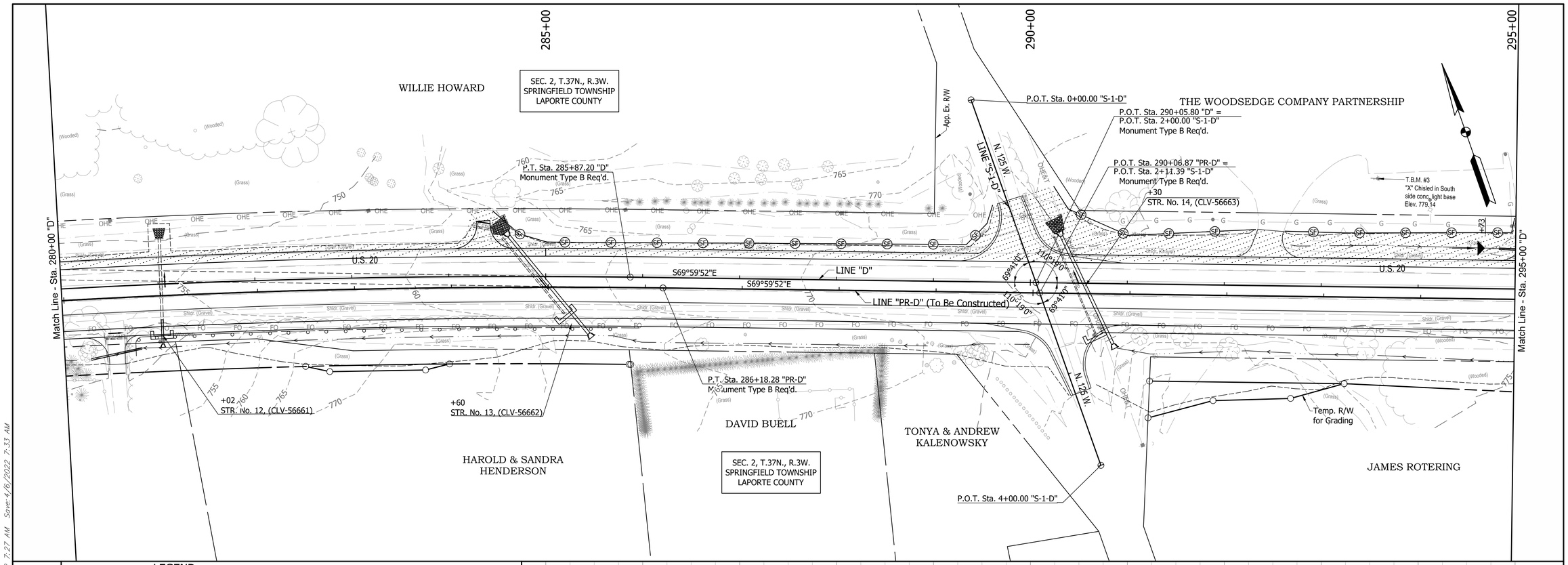
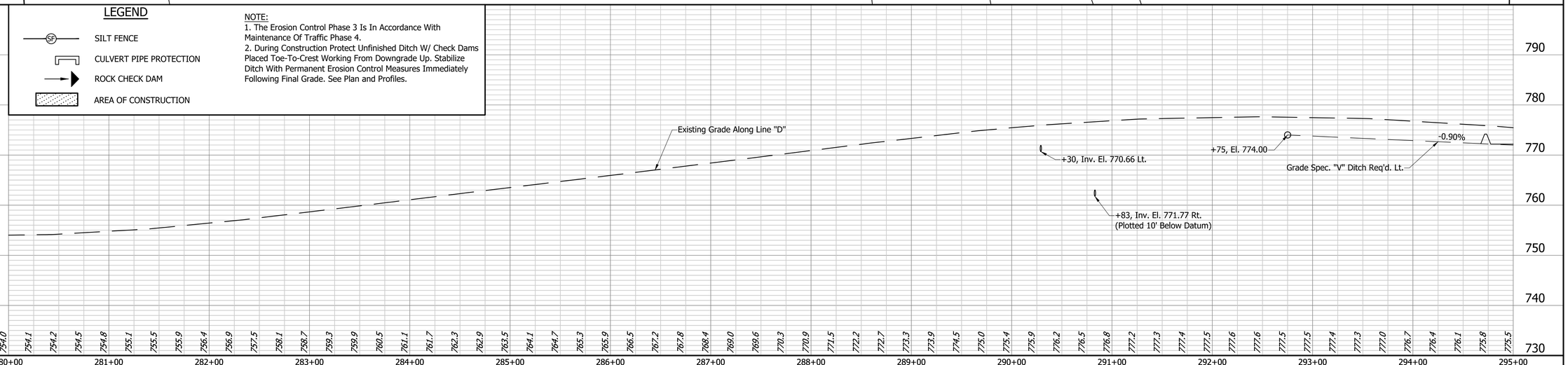
PRELIMINARY PLANS



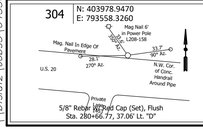

## LEGEND

- SILT FENCE
- CULVERT PIPE PROTECTION
- ROCK CHECK DAM
- AREA OF CONSTRUCTION

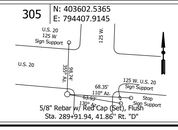
NOTE:
1. The Erosion Control Phase 3 Is In Accordance With Maintenance Of Traffic Phase 4.
2. During Construction Protect Unfinished Ditch W/ Check Dams Placed Toe-To-Crest Working From Downgrade Up. Stabilize Ditch With Permanent Erosion Control Measures Immediately Following Final Grade. See Plan and Profiles.




304 N: 403978.9470 E: 793558.3260




305 N: 403602.5365 E: 794407.9145




RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: LRH DRAWN: BKM

CHECKED: JWG CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLANS
PHASE 3

| | |
|---|---|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| 1"=10' | 1702993 |
| SURVEY BOOK | SHEET |
| | 114 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS

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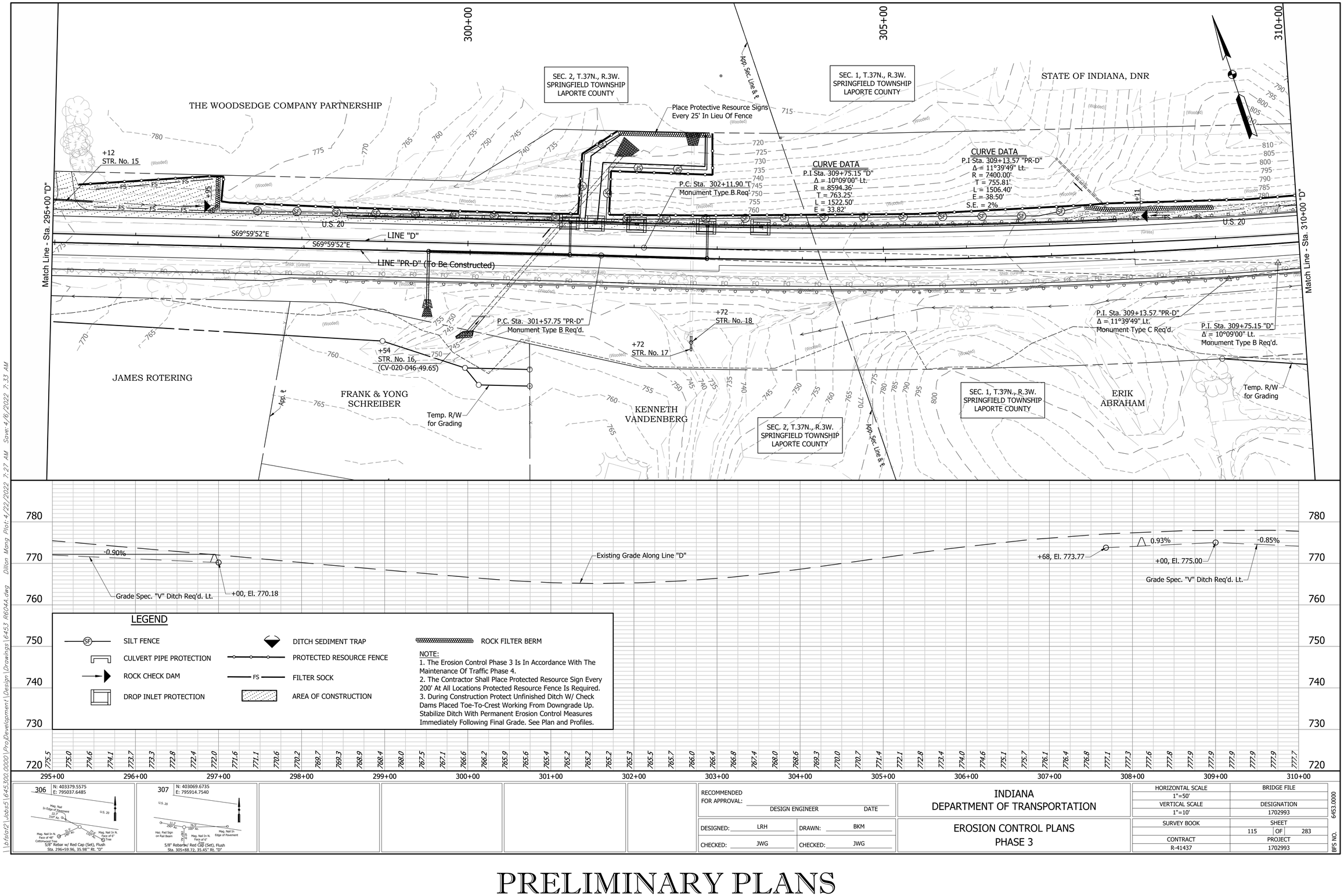



\\bfs\e2\Jobs\645300.0000\ProjDevelopment\Design\Drawings\6453 R6004A.dwg Dillon Mong Plot:4/22/2022 7:27 AM Saved:4/6/2022 7:33 AM

# PRELIMINARY PLANS

SEC. 1, T.37N., R.3W.
SPRINGFIELD TOWNSHIP
LAPORTE COUNTY

STATE OF INDIANA, DNR

CURVE DATA
P.I Sta. 309+75.15 "D"
Δ = 10°09'00" Lt.
R = 8594.36'
T = 763.25'
L = 1522.50'
E = 33.82'

"Galena Marsh"

Match Line - Sta. 310+00 "D"

U.S. 20

LINE "D"

LINE "PR-D" (To Be Constructed)

CURVE DATA
P.I Sta. 309+13.57 "PR-D"
Δ = 11°39'49" Lt.
R = 7400.00'
T = 755.81'
L = 1506.40'
E = 38.50'

P.O.C. Sta. 314+98.31 "PR-D"=
P.O.T. Sta. 2+96.44 "S-2-D"
Monument Type B Req'd.

Temp. R/W for Grading

ERIK ABRAHAM

SEC. 1, T.37N., R.3W.
SPRINGFIELD TOWNSHIP
LAPORTE COUNTY

LINE "S-2-D"
N17°15'54"E

Wilhelm Rd.

315+00

P.O.C. Sta. 315+00.00 "D"=
P.O.T. Sta. 3+00.00 "S-2-D"
Monument Type B Req'd.

P.T. Sta. 316+64.16 "PR-D"
Monument Type B Req'd.

97°24'46"
82°35'14"
82°35'14"
37°24'46"

Constr. Limits

ROSSBURG CEMETERY

320+00

P.O.T. Sta. 317+32.51 "PR-D" (Back)
P.T. Sta. 317+34.40 "D" (Ahead)
Monument Type B Req'd.

S80°08'52"E

P.O.T. Sta. 317+35.03 "PR-D"

Temp. R/W for Grading

Temp. R/W for Drive Const.

SEVEN SPRINGS LEGACY, LLC.

LINE "D"

U.S. 20

+25
STR. No. 19,
(CLV-56664)

325+00

Match Line - Sta. 325+00 "D"

554 W. Hwy 20
1-Sty. Brk Comm. Bldg

MICHAEL & DIANA KOPCZYK
LOT 7

RICHARD MULLENHOUR
LOT 6

SUTHERLAND HOMES
PT. LOT 5

PT. LOT 5

HENRY & PAMELA PENN
624 W. Hwy 20
1-Sty. Frame Hse.
PT. LOT 4

PT. LOT 3

COREY LOEFFLER
PT. LOT 3

KENT JOHNSON
PT. LOT 2

SUTHERLAND HOMES

GRAZYNA URBANCZYK
LOT 1

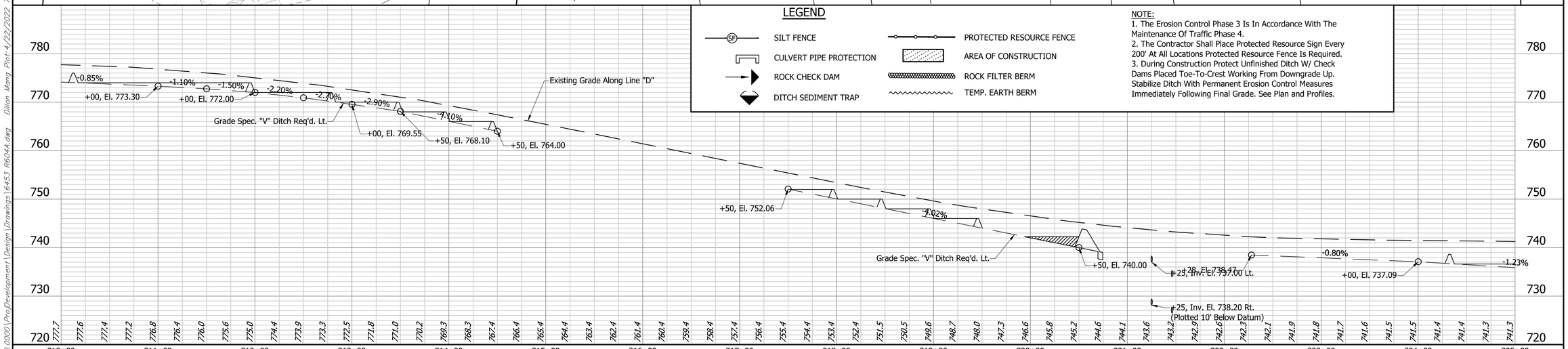
Temp. R/W for Drive Const.

Temp. R/W for Grading

## LEGEND

- SF — SILT FENCE
- CULVERT PIPE PROTECTION
- ROCK CHECK DAM
- DITCH SEDIMENT TRAP
- PROTECTED RESOURCE FENCE
- AREA OF CONSTRUCTION
- ROCK FILTER BERM
- TEMP. EARTH BERM

NOTE:
1. The Erosion Control Phase 3 Is In Accordance With The Maintenance Of Traffic Phase 4.
2. The Contractor Shall Place Protected Resource Sign Every 200' At All Locations Protected Resource Fence Is Required.
3. During Construction Protect Unfinished Ditch W/ Check Dams Placed Toe-To-Crest Working From Downgrade Up. Stabilize Ditch With Permanent Erosion Control Measures Immediately Following Final Grade. See Plan and Profiles.




308 | N: 402935.7035 | E: 796389.6090
U.S. 20
Mag. Nail In Edge of Pavement 37.9' 357° Az.
N. Post of "La Lumiere" Sign.
79.9' 200° Az.
Mag. Nail In N. Face of 15" Oak Tree
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 310+80.18, 94.62' Rt. "D"

309 | N: 402908.9050 | E: 796872.6020
Mag. Nail In E. Face of 24" Cottonwood Tree
Power/ Tele Anchor Wire Base 86.7' 350° Az.
R.R. Spike in S.E. Face of Pole #L209-33 75.9' 300° Az.
Gravel Lot
U.S. 20
Wilhelm Rd.
Boat Spike (Set), Flush
Sta. 315+57.70, 44.81'' Lt. "D"

310 | N: 402706.4610 | E: 797543.8940
U.S. 20
Mag Nail In Edge of Pavement 31.4' 354° Az.
Mag Nail in N. Face of Util. Pole #L209-20 106.0' 113° Az.
Telephone Pedestal
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 322+54.66, 37.98'' Rt. "D"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLANS
PHASE 3

| | | | |
|---|---|---|---|
| DESIGNED: | LRH | DRAWN: | BKM |
| CHECKED: | JWG | CHECKED: | JWG |

| | |
|---|---|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| 1"=10' | 1702993 |
| SURVEY BOOK | SHEET |
| | 116 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

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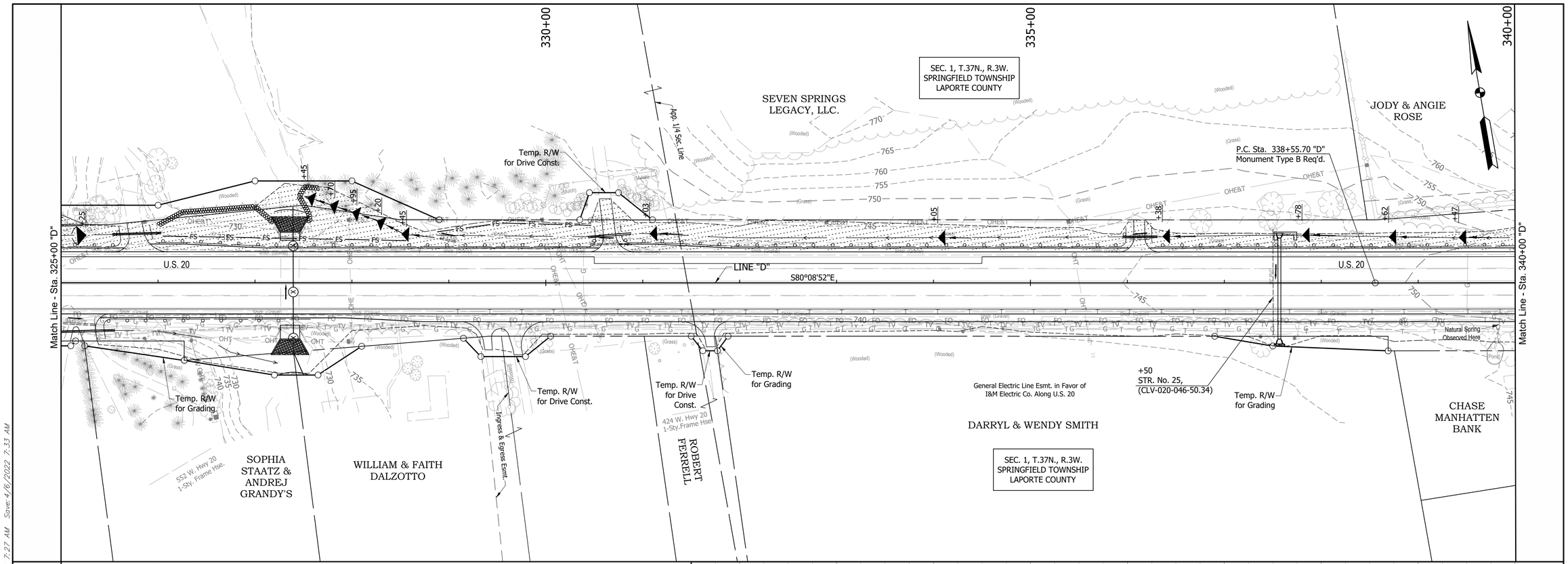
# PRELIMINARY PLANS

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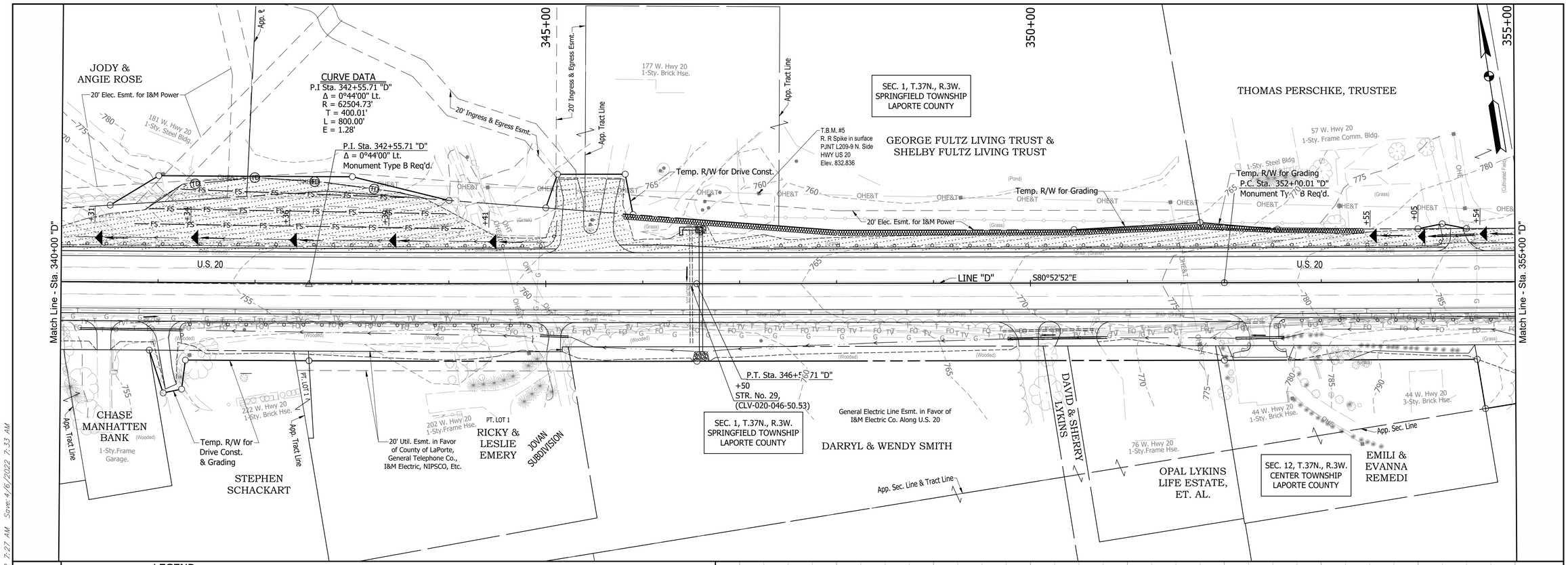
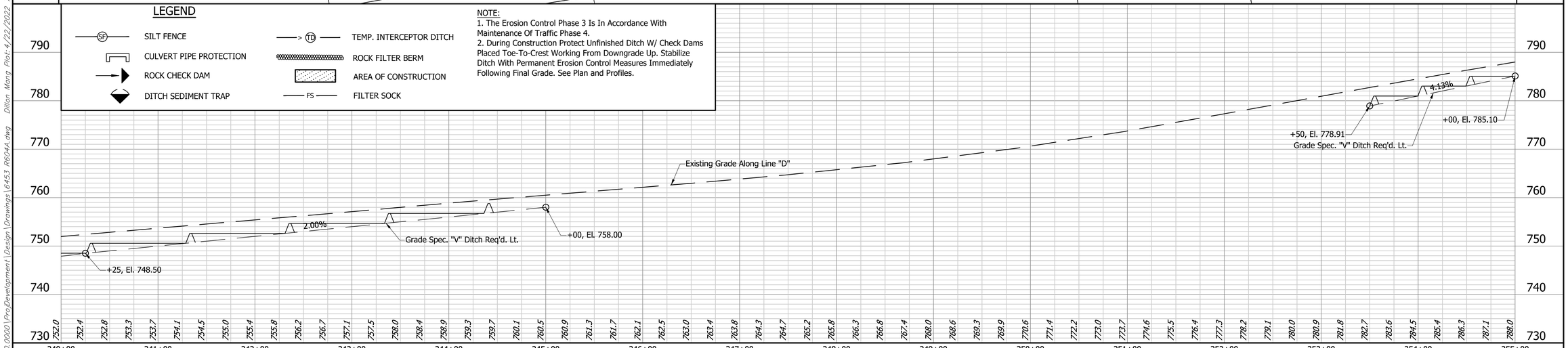
# PRELIMINARY PLANS

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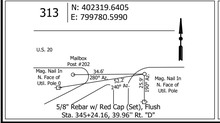


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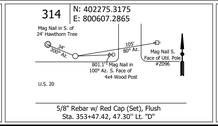



RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: LRH DRAWN: BKM

CHECKED: JWG CHECKED: JWG

INDIANA DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLANS PHASE 3

| | |
|---|---|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| 1"=10' | 1702993 |
| SURVEY BOOK | SHEET |
| | 118 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

\\bfsfs02\Jobs\5\6453.0000\Projdevelopment\Design\Drawings\6453_R604A.dwg Dillon Mong Plot:4/22/2022 7:27 AM Save:4/6/2022 7:33 AM

PRELIMINARY PLANS

SEC. 1, T.37N., R.3W.
SPRINGFIELD TOWNSHIP
LAPORTE COUNTY

THOMAS PERSCHKE, TRUSTEE

CURVE DATA
P.I Sta. 356+00.01 "D"
Δ = 0°35'00" Lt.
R = 78577.31'
T = 400.00'
L = 799.00'
E = 1.02'

P.I. Sta. 356+00.01 "D"
Δ = 0°35'00" Lt.
Monument Type B Req'd.

P.O.T. Sta. 358+55.00 "D"=
P.O.T. Sta. 3+00.00 "S-3-D"
Monument Type B Req'd.

P.T. Sta. 360+00.01 "D"
Monument Type B Req'd.

Temp. R/W
for Drive Const.

SEC. 6, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

General Gas Pipe Line Esmt. in
Favor of Wolverine Pipe Line Co.

GREGORY THOMAN

101 E. Hwy 20
2-Sty. Frame Hse.

Temp. R/W
for Drive Const.

10' Ingress & Egress Esmt.

P.C. Sta. 365+00.01 "D"
Monument Type B Req'd.

GREGORY THOMAN

CURVE DATA
P.I Sta. 368+28.01 "D"
Δ = 0°23'00" Rt.
R = 98050.00'
T = 328.00'
L = 656.00'
E = 0.55'

44 W. Hwy 20
1-Sty. Steel Bldg.

App. Sec. Line & Tract Line

P.I. Sta. 368+28.01 "D"
Δ = 0°23'00" Rt.
Monument Type B Req'd.

Match Line - Sta. 355+00 "D"

Match Line - Sta. 370+00 "D"

U.S. 20

LINE "D"

S81°27'52"E

Ranch Rd.

App. Sec. Line

80°48'27"

99°11'33"

99°11'33"

80°48'27"

EDWIN & IMOGENE
ESKRIDGE

4998 N Range Rd
1-Sty. Frame Hse.

P.I. Sta. 2+29.72 "S-3-D"

COLIN R. SCHROEDER

SEC. 12, T.37N., R.3W.
CENTER TOWNSHIP
LAPORTE COUNTY

LINE "S-3-D"

App. Sec. Line

App. ℄

Temp. R/W
for Grading

CHARLES MAINLAND REV. LIV. TRUST

SEC. 7, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

+57
STR. No. 33

Temp. R/W
for Drive Const.

MARGARET
STACY
LOT 1

122 E. Hwy 20
1-Sty. Frame Hse.

Blanket Pipe Line Esmt.
in Favor of Wolverine Pipe Line Co.
(Indicated by "*See Esmt. Note")

152 E. Hwy 20
1-Sty. Brick Hse.

ERNEST KEANE
& SHARON STACY
LOT 2

*See Esmt. Note

Temp. R/W
for Drive Const.

ROBERT
STACY JR.
LOT 5

*See Esmt.
Note

JAMES
STACY
LOT 3

*See Esmt. Note

20' Ingress & Egress Esmt.

STACY MINOR
SUBDIVISION

12' Util. & Drainage Esmt. Per Plat

Temp. R/W
for Drive Const.

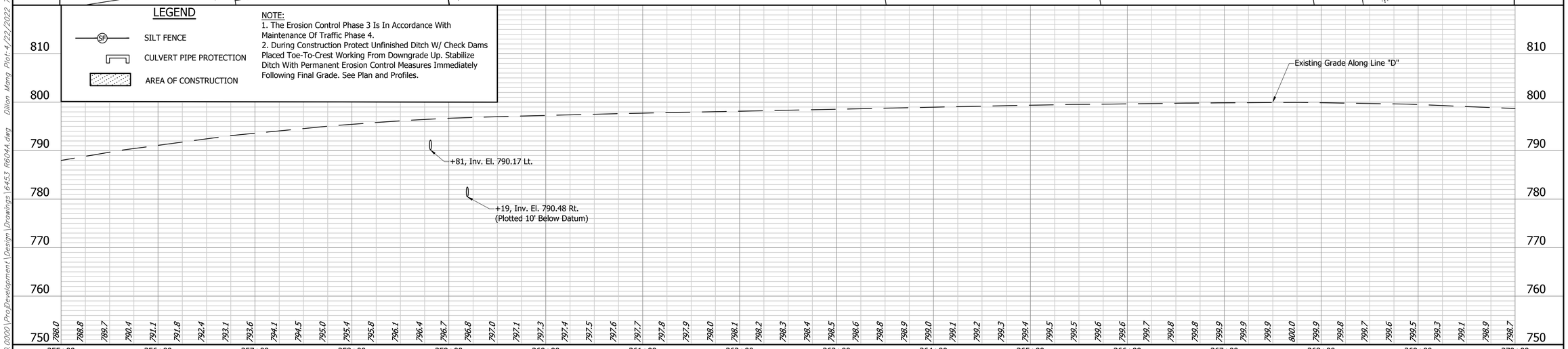
LEGEND

SF — SILT FENCE

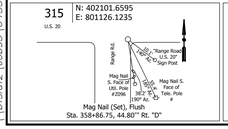
CULVERT PIPE PROTECTION

AREA OF CONSTRUCTION

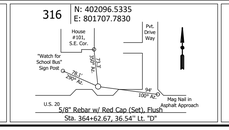
NOTE:
1. The Erosion Control Phase 3 Is In Accordance With Maintenance Of Traffic Phase 4.
2. During Construction Protect Unfinished Ditch W/ Check Dams Placed Toe-To-Crest Working From Downgrade Up. Stabilize Ditch With Permanent Erosion Control Measures Immediately Following Final Grade. See Plan and Profiles.




315 | N: 402101.6595 | E: 801126.1235




316 | N: 402096.5335 | E: 801707.7830




RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: LRH | DRAWN: BKM

CHECKED: JWG | CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLANS
PHASE 3

| | |
|---|---|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| 1"=10' | 1702993 |
| SURVEY BOOK | SHEET |
| | 119 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

\\bfsfs02\Jobs5\6453.0000\ProDevelopment\Design\Drawings\6453 R6044.dwg Dillon Mong Plot: 4/22/2022 7:27 AM Save: 4/6/2022 7:33 AM

# PRELIMINARY PLANS

\\bfs\of2\Jobs\645300.0000\ProjDevelopment\Design\Drawings\6453_R604A.dwg Dillon Mong Plot:4/22/2022 7:28 AM Save:4/6/2022 7:33 AM

SEC. 6, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

General Gas Pipe Line Esmt. in Favor of Wolverine Pipe Line Co.

GREGORY THOMAN

287 E. Hwy 20
2-Sty. Frame Hse.

1-Sty. Frame Garage.

Temp. R/W for Drive Const.

App. Sec. Line & Tract Line

KAREN STONE

SEC. 7, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

355 E. Hwy 20
1-Sty. Comm. Frm. Bldg.

GROUND FORCES, INC.

375+00

380+00

385+00

Match Line - Sta. 370+00 "D"

Match Line - Sta. 385+00 "D"

U.S. 20

LINE "D" S81°04'52"E

P.T. Sta. 371+56.00 "D"
Monument Type B Req'd.

Blanket Pipe Line Esmt. in Favor of Wolverine Pipe Line Co.

234 E. Hwy 20
2-Sty. Frm. Hse.

PHILIP & NANCY WHYBREW

Temp. R/W for Drive Const.

TONY GRINSTON

P.C. Sta. 376+02.30 "D"
Monument Type B Req'd.

T.B.M. #7
R.R Spike in Ptel at fence line, S. of Hwy W of 0356 Driveway Entrance
Elev. 791.373

LAND TRUST #4965

356 E. Hwy 20
1-Sty. Brk. Hse.

CURVE DATA
P.I Sta. 382+16.30 "D"
Δ = 9°48'00" Lt.
R = 7162.00'
T = 614.00'
L = 1225.00'
E = 26.27'
S.E. = 2%

P.I. Sta. 382+16.30 "D"
Δ = 9°48'00" Lt.
Monument Type B Req'd.

SEC. 7, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

DOLORES SMEATON

Temp. R/W for Drive Const.

Temp. R/W for Drive Const.

1-Sty. Blk. Comm. Bldg.

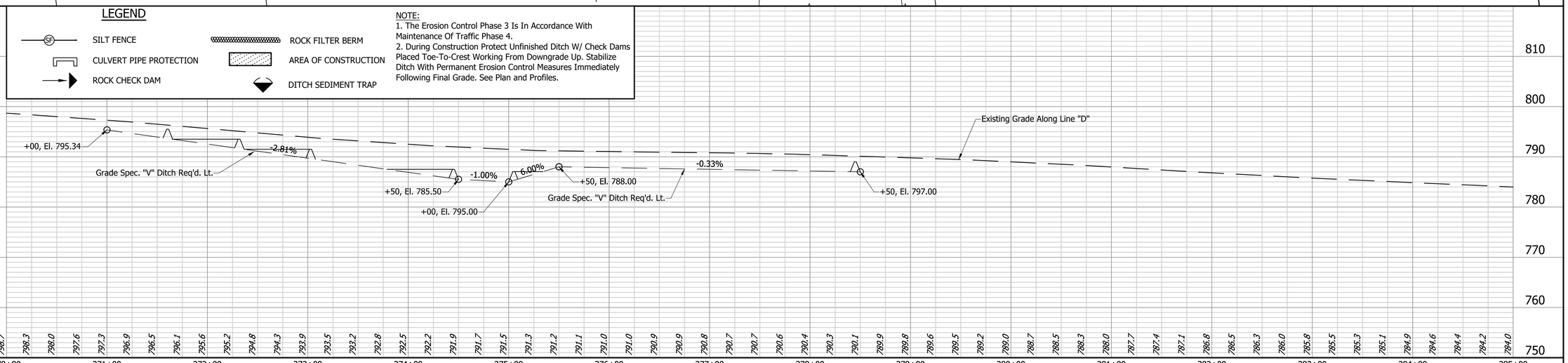
422 N. Hwy 20
2-Sty. Frame Hse.

MARK & CONNIE SHERRICK

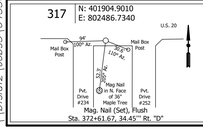
## LEGEND

- SILT FENCE
- CULVERT PIPE PROTECTION
- ROCK CHECK DAM
- ROCK FILTER BERM
- AREA OF CONSTRUCTION
- DITCH SEDIMENT TRAP

NOTE:
1. The Erosion Control Phase 3 Is In Accordance With Maintenance Of Traffic Phase 4.
2. During Construction Protect Unfinished Ditch W/ Check Dams Placed Toe-To-Crest Working From Downgrade Up. Stabilize Ditch With Permanent Erosion Control Measures Immediately Following Final Grade. See Plan and Profiles.

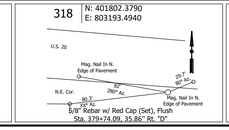



317 N: 401904.9010 E: 802486.7340




Mag. Nail (Set), Flush
Sta. 372+61.67, 34.45'' Rt. "D"

318 N: 401802.3790 E: 803193.4940




5/8" Rebar w/ Red Cap (Set), Flush
Sta. 379+74.09, 35.86'' Rt. "D"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: LRH DRAWN: BKM

CHECKED: JWG CHECKED: JWG

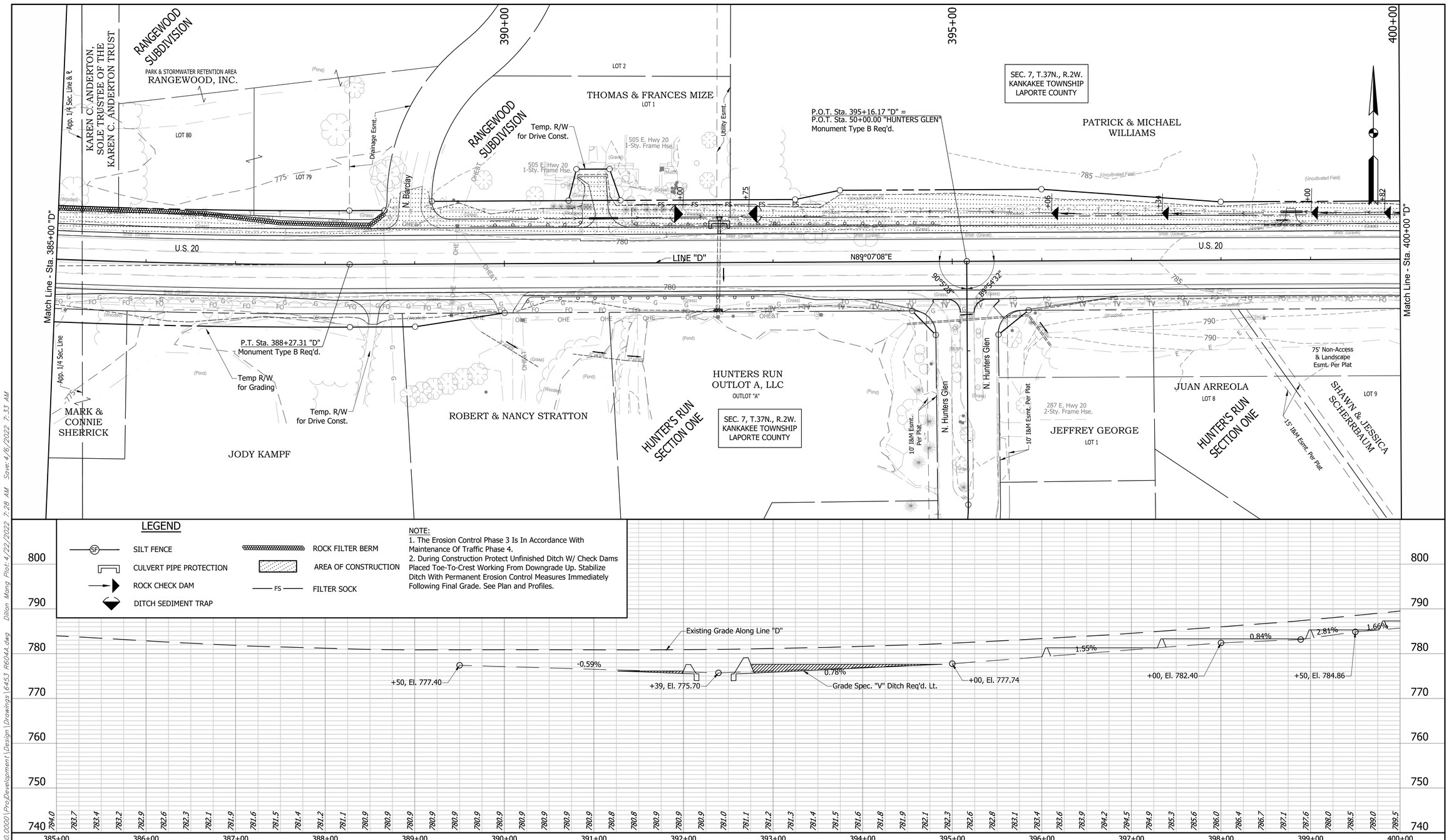
INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLANS
PHASE 3

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| 1"=10' | 1702993 |
| SURVEY BOOK | SHEET |
| | 120 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

# PRELIMINARY PLANS




PRELIMINARY PLANS

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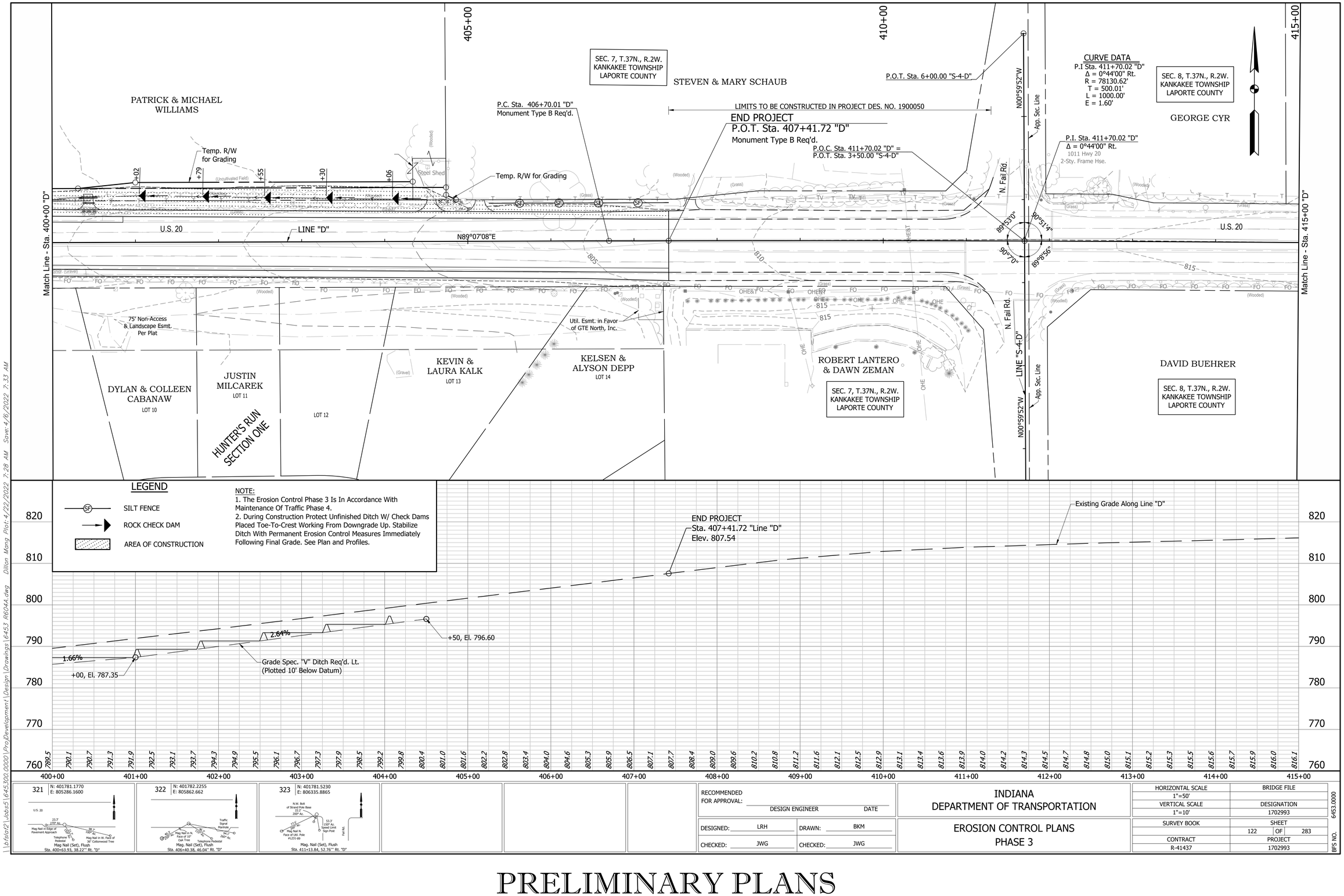


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PRELIMINARY PLANS

## Construction Stormwater General Permit (CSGP) Checklist - Section A: Construction Plan Elements

A-1 Index Of The Location Of Required Plan Elements In The Construction Plan
See The Next Sheet. Plan Elements A2-A31, B1-B15, & C1-C6 Have Also Been Addressed On This Sheet And Are As Follows:

A-2 A Vicinity Map Depicting The Project Site Location In Relation To Recognizable Local Landmarks, Towns, And Major Roads
See Title Sheet.

A-3 Narrative Of The Nature And Purpose Of The Project
The Purpose Of The Project Is Making Improvements To US 20, Adding a Two-Way Left Turn Lane and Widening Shoulders.

A-4 Latitude And Longitude To The Nearest Fifteen (15) Seconds (Approximate) Latitude: 41.6875, Longitude: -86.7375.

A-5 Legal Description Of The Project Site
Sections 1, 2, and 12; Township 37N; Range 3W; Sections 6 and 7; Township 37N; Range 2W; From SR 39 To 2.88 Miles East Of SR 39 (Fail Rd.).

A-6 11x17 Inch Plat With Building, Lots, Boundaries, Road Layout Names
See Plat No. 1 Sheets.

A-7 Boundaries Of The One Hundred (100) Year Floodplains, Floodway Fringes, And Floodways
See The Attached Flood Insurance Rate Map.

A-8 Land Use Of All Adjacent Properties
The Land Use Within, And Adjacent To, The Project Limits Mostly Consists Of Residential Development, Farmland And Forested.

A-9 Identification Of U.S. EPA Approved Or Established Total Maximum Daily Load (TMDL)

| TMDL Name | TMDL Pollutant |
|---|---|
| Galena River Watershed | Escherichia Coli (E. Coli) |

A-10 Name(s) Of Receiving Water(s)
Stormwater Will Ultimately Discharge To Galena Marsh Then Discharges To The Galena River.

A-11 Identification Of Discharges To A Water On The Current 303d List Of Impaired Waters And The Pollutant(s) For Which It Is Impaired
Galena River - Escherichia Coli (E. Coli)

A-12 Soils Map Of The Predominant Soil Types
See The Attached Soils Map & Erosion Control Sheets.

| | | |
|---|---|---|
| Br | Bourbon Sandy Loam | 0.2% |
| ChB | Chelsea Fine Sand, 2 to 6 Percent Slopes | 13.1% |
| ChC | Chelsea Fine Sand, 6 to 12 Percent Slopes | 12.5% |
| ChD | Chelsea Fine Sand, 12 to 18 Percent Slopes | 8.4% |
| Ed | Edwards Muck, Drained | 0.9% |
| Fh | Fluvaquents, Loamy | 1.1% |
| Hh | Histosols and Aquolls | 2.5% |
| Hm | Houghton Muck, Undrained, 0 to 1 Percent Slopes | 5.4% |
| Ho | Houghton Muck, Drained, 0 to 1 Percent Slopes | 0.6% |
| Pa | Palms Muck, Sandy Substratum | 0.0% |
| RlA | Riddles Loam, 0 to 2 Percent Slopes | 0.2% |
| RlB2 | Riddles Loam, 2 to 6 Percent Slopes, Eroded | 1.2% |
| RlC2 | Riddles Loam, 6 to 12 Percent Slopes, Eroded | 3.9% |
| RlD2 | Riddles Loam, 12 to 18 Percent Slopes, Eroded | 0.4% |
| RlF | Riddles Loam, 25 to 45 Percent Slopes | 1.7% |
| SeB | Selfridge Loamy Fine Sand, 2 to 6 Percent Slopes | 0.4% |
| TcA | Tracy Sandy Loam, 0 to 2 Percent Slopes | 4.4% |
| TcB | Tracy Sandy Loam, 2 to 6 Percent Slopes | 14.2% |
| TcC2 | Tracy Sandy Loam, 6 to 12 Percent Slopes, Moderately Eroded | 19.4% |
| TcD2 | Tracy Sandy Loam, 12 to 18 Percent Slopes | 0.8% |
| TcF | Tracy Sandy Loam, 18 to 35 Percent Slopes | 5.6% |
| Tr | Troxel Silt Loam | 0.5% |
| Ua | Udorthents, Loamy | 1.2% |
| W | Water | 1.2% |
| Wh | Washtenaw Silt Loam | 0.3% |

A-13 Identification And Location Of All Known Wetlands, Lakes And Watercourses On Or Adjacent To The Project Site
The Galena Wetland Is Adjacent To US 20 From Approximately Sta. 290+07 "PR-D" To Sta. 315+00 "PR-D".

A-14 Identification And Status Of Any Other State Or Federal Water Quality Permits Or Authorizations That Are Required For Construction Activities And The Expected Timeline If The Permits Have Not Been Obtained
IDEM Section 401 WQC Regional General Permit
USACE Section 404 Regional General Permit

A-15 Identification And Delineation Of Existing Cover, Including Natural Buffers
The Project Is Located Mostly On Grassy Areas, Cultivated Crops And Woods.

A-16 Existing Topography At A Contour Interval Appropriate To Indicate Drainage Patterns
See The Plan & Profile, Erosion Control, & Cross Section Sheets.

A-17 Location(s) Of Where Run-Off Enters The Project Site
See The Plan & Profile & Cross Section Sheets.

A-18 Location(s) Of Where Run-Off Discharges From The Project Site Prior To Land Disturbance
See The Plan & Profile & Cross Section Sheets.

A-19 Location Of All Existing Structures On The Project Site
See The Plan & Profile Sheets.

A-20 Location, Size, And Dimensions Of Features, Such As Existing Permanent Retention Or Detention Facilities, Including Manmade Wetlands, Designed For The Purpose Of Stormwater Management
N/A.

A-21 Locations Where Stormwater May Be Directly Discharged Into Ground Water, Such As Abandoned Wells, Sinkholes, Or Karst Features
Potential Locations For Groundwater Infiltration Include Roadside Ditches.

A-22 Size Of The Project Area Expressed In Acres
42.85 Acres.

## CSGP Checklist - Section A: (Continued)

A-23 Total Expected Land Disturbance Expressed In Acres
28.78 Acres

A-24 Proposed Final Topography
Refer To The Plan & Profile & Cross Section Sheets For Final Topography.

A-25 Locations And Approximate Boundaries Of All Disturbed Areas
See The Plan & Profile Sheets For Construction Limits.

A-26 Location, Size, And Dimension Of All Stormwater Drainage Systems, Such As Culverts, Storm Sewers, And Conveyance Channels

| Location | Dimensions |
|---|---|
| 270+03 "PR-D" | 3'x2' Box Culvert |
| 281+02 "PR-D" | 24" Diameter Culvert |
| 284+88 "PR-D" | 15" Diameter Culvert |
| 290+55 "PR-D" | 24" Diameter Culvert |
| 300+91 "PR-D" | 4'x3' Box Culvert |
| 302+72 "PR-D" | 3'x2' Box Culvert |
| 321+41 "D" | 24" Diameter Culvert |
| 327+40 "D" | 18'x5.3' Three Sided Structure |
| 337+57 "D" | 18" Diameter Culvert |
| 346+50 "D" | 30" Diameter Culvert |
| 359+01 "D" | 30" Diameter Culvert |
| 392+39 "D" | 30" Diameter Culvert |

See The Plan & Profile Sheets.

A-27 Locations Of Specific Points Where Stormwater And Non-Stormwater Discharges Will Leave The Project Site
See The Plan & Profile And Cross Section Sheets.

A-28 Location Of All Proposed Site Improvements, Including Roads, Utilities, Lot Delineation And Identification, Proposed Structures, And Common Areas
Improvements Shall Be Contained Within The Construction Limits As Shown On The Plan & Profile Sheets.

A-29 Location of All On-Site And Off-Site Soil Stockpiles And Borrow Areas
Proposed Borrow Or Disposal Sites Shall Be Identified By The Contractor Before The Material Is Excavated Or Disposed Of Within Or Outside The R/W in Accordance w/Section 203.08, 203.09, & 212. The Contractor Shall Comply w/Section 108.04 Of The Indiana Department Of Transportation (INDOT) Standard Specifications.

A-30 Construction Support Activities That Are Expected To Be Part Of The Project
Construction Support Activities Including, But Not Limited To, Staging Areas And Material Storage Areas Are Expected To Be Part Of This Project. The Location Of Such Areas Are To Be Determined By The Engineer.

A-31 Location Of Any In-Stream Activities That Are Planned For The Project Including, But Not Limited To Stream Crossings And Pump Arounds
A Three Sided Structure At Sta. 327+40 "D" Will Be Extended On The North And South Side Of US 20. This Work Will Take Place In-Stream. A Pump Around Will Be Required During The Construction Of The Extensions. As Coordinated With Ecology And Waterway Permitting Within INDOT Environmental Services, A Construction In A Floodway Permit Will Not Be Required For This Project.

## CSGP Checklist - Section B: Stormwater Pollution Prevention Plan - Erosion And Sediment Control/Project Site Management

B-1 Description Of Potential Pollutant Generating Sources And Pollutants Associated With Construction Activities
See The Potential Storm Water Pollutants And Spill Prevention Handling Table Located On The Erosion Control Notes.

B-2 Stable Construction Entrance Locations And Specifications (At All Points Of Ingress And Egress)
The Contractor Shall Utilize Existing Streets And Drives As Much As Possible For Construction Ingress And Egress. The Contractor Shall Keep Public Roads And Private Drives Clear And Remove All Dust, Dirt, And Debris As A Result Of Construction Activities. Temporary Construction Entrances Shall Meet The Requirements Of The Construction Gravel Entrance As Shown On The Erosion Control Details And INDOT Standard Drawing E 205-TECD-12.

B-3 Specifications For Temporary And Permanent Stabilization
Seeding And Stabilization Of Disturbed Areas Shall Be Implemented For All Disturbed Land Left Inactive For A Period Of Seven (7) Days. Permanent Seeding And Stabilization Shall Be Implemented For All Disturbed Land And Shall Occur Once Final Grading Has Been Completed. See The Plan & Profile Sheets & Erosion Control Details. See Item B-12 For Sequencing Information, And The Erosion Control Notes For Application Information For Seeding And Mulching.

B-4 Sediment Control Measures For Concentrated Flow Areas
Sediment Control Will Be Handled Via Ditch Sodding, Erosion Control Blankets, Riprap, And Temporary Sediment Traps. See The Erosion Control Sheets And INDOT Standard Drawings E 205-TECD-09 and E 205-TECD-11.

B-5 Sediment Control Measures For Sheet Flow Areas
Sediment Control Will Be Handled Via Silt Fence And By Temporary & Permanent Seeding And Stabilization. See The Plan & Profile, Erosion Control Sheets And INDOT Standard Drawing E 205-TECD-11.

B-6 Run-off Control Measures (e.g., Diversions, Rock Check Dams, Swales, etc.)
Runoff Will Be Controlled By Rock Check Dams, Silt Fence, Temporary Seeding And Stabilization, Interceptor Ditches and Diversion Interceptors With Slope Drains. See The Erosion Control Sheets and INDOT Standard Drawings E 205-TECS.

B-7 Stormwater Outlet Protection Locations And Specifications
Stormwater Outlet Protection Will Be Handled Via Riprap, Rock Filter Berms, Or Rock Check Dams. See The Erosion Control Sheets & Erosion Control Details.

B-8 Grade Stabilization Structure Locations And Specifications
A Grade Stabilization Will Be Required For The Project. See The Erosion Control Sheets & Erosion Control Details.

B-9 Dewatering Applications And Management Methods (Basin Outlet Measures, Flocculants, etc.)
A Three Sided Structure At Sta. 327+40 "D" Will Be Extended On The North And South Side Of US 20. This Work Will Take Place In-Stream. A Pump Around Will Be Required During The Construction Of The Extensions. As Coordinated With Ecology And Waterway Permitting Within INDOT Environmental Services, A Construction In A Floodway Permit Will Not Be Required For This Project.

B-10 Measures Utilized For Work Within Waterbodies (Crossings, Coffer Dams, etc.)
Temporary Coffer Dams Are Utilized For Pump Arounds. See The Erosion Control Sheets For Locations Of Pump Arounds And Corresponding Temporary Coffer Dams.

B-11 Maintenance Guidelines For Each Proposed Temporary Stormwater Quality Measure
The Contractor Shall Maintain All Water Quality Measures During Construction To Prevent Any Blockages From Accumulated Sediment. Monitoring Of The Protective Measures Shall Be Done On A Weekly Basis And Again Within 24 Hours Of Every Half-Inch Rain Event.

## CSGP Checklist - Section B: (Continued)

B-11 (Continued)
Maintenance Shall Include A Written Record Of Each Inspection That Is Made Within 24 Hours Of A Rain Event And Weekly. The Written Record Shall Be Made Available Upon Request.

Temporary Construction Entrance:
Inspect Weekly, Within 24 Hours Of Every Half-Inch Rain Event, And After Heavy Use.
A. Reshape Pad As Needed.
B. Top Dress Pad As Needed.
C. Remove Immediately Any Mud And Sediment Tracked Or Washed Onto The Street Using Brushing Or Sweeping. Flush Area Only If Runoff Will Be Flowing Through A Sediment Trap. Repair Any Damaged Pavement Immediately.

Silt Fence: (Per INDOT Standard Specification 205.07(b))
A. Replace If Torn, Starts To Degrade, Or Becomes Ineffective In Anyway.
B. Remove Sediment When It Reaches Half Of The Fence Height Taking Care Not To Undermine.

Rock Check Dam: (Per INDOT Standard Specification 205.07(e))
A. Inspect Check Dams And The Channel After Each Storm Event, And Repair Any Damage Immediately. If Significant Erosion Occurs Between Dams, Install A Riprap Liner In That Portion Of The Channel.
B. Remove Sediment Accumulated Behind Each Dam As Needed To Maintain Channel Capacity, To Allow Drainage Through The Dam, And To Prevent Large Flows From Displacing Sediment.
C. Add Aggregate To The Dams As Needed To Maintain Design Height And Cross Section.
D. When The Dams Are No Longer Needed, Remove The Aggregate And Stabilize Channel Using An Erosion Resistant Lining, If Necessary.

Riprap:
A. Check For And Repair Any Adjacent Erosion.
B. Repair Washed Out Areas.

Erosion Control Blanket:
A. Repack And Reseed As Needed.
B. Reattach And Anchor As Needed.

Temporary Seeding:
A. Monitor Until It Reaches 70% Coverage.
B. Reseed As Needed.
C. Install Additional Erosion Control To Help Establish Cover.

Temporary Sediment Traps: (Per INDOT Standard Specification 205.07(f))
A. Repair Slope Erosion And Piping Holes As Required Following Each Rain Event.
B. Remove Sediment Accumulation Once It Reaches 1/2 Design Volume.
C. The Contractor Shall Replace The Coarse Aggregate Filter Stone If The Sediment Pool Does Not Drain Within 72 Hours Following A Rain Event.

Rock Filter Berm: (Per INDOT Standard Specification 205.07(c))
A. Accumulated Sediment Shall Be Removed Once It Reaches 1/4 Height Of The Filter Berm.
B. The Filter Berm Shall Be Inspected To Ensure That It Is Holding Its Shape And Allowing Adequate Flow.
C. Eroded And Damaged Areas Shall Be Repaired.

Filter Sock: (Per INDOT Standard Specification 205.07(a))
A. Accumulated Sediment Shall Be Removed Once It Reaches 1/2 Of The Height Of The Filter Sock When Used For Perimeter Protection And 1/3 Height When Used For Inlet Protection.
B. The Filter Sock Shall Be Inspected To Ensure That It Is Holding Its Shape And Allowing Adequate Flow.
C. Eroded And Damaged Areas Shall Be Repaired.

Protected Resource Fence: (Per INDOT Standard Specification 205.07(i))
A. Protected Resource Fence Shall Be Maintained In An Upright Position With No Tears Or Missing Sections.

Protected Resource Signs: (Per INDOT Standard Specifications 205.07(j))
A. Protected Resources Signs And Posts Shall Be Maintained In An Upright And Legible Condition.

Check And Maintain Any Additional Erosion Control Measures As Needed In Accordance With INDOT Standard Specification 205.03.

B-12 Planned Construction Sequence Describing Stormwater Quality Measure Implementation Relative To Land Disturbing Activities
Preconstruction:
A. Notify Project Owner
B. Contact The Indiana Underground Plant Protection Systems, Inc. To Verify The Location Of Any And All Underground Utilities.
C. Install Temporary Construction Entrances At All Access Points.
D. Exhibit CSGP Information At The Job Site. Contractor Shall Designate A Person Responsible For On-Site Inspections And For Providing This Stormwater Pollution Prevention Plan (SWP3) On-Site.
E. Install Silt Fence.
Construction:
Erosion Control Plans Have Been Phased To Coincide With The Maintenance Of Traffic Plans.
Phase 1:
A. Establish Construction Entrances.
B. Contractor Shall Construct Concrete Washouts. Contractor Shall Coordinate Location Of Concrete Washouts At The Direction Of The Engineer.
C. Install Erosion Control Measures As Each New Item Of The Project Is Installed As Required Which May Include But Is Not Limited To Culvert Pipe Protection, Silt Fence, Protected Resource Fence, Protected Resource Signs, Rock Check Dams, Erosion Control Blankets, and Riprap.
D. The Contractor Shall Coordinate With The Engineer On The Location Of The Following Construction Areas Prior To Implementation: Staging Areas, Boring/Receiving Pits, Material Storage Areas, & Fueling Stations.
E. Complete Clearing Of Right Of Way For Utility Relocations And For Proposed Roadway Improvements.
F. Temporary Seed And Stabilize Disturbed Areas If To Be Disturbed More Than Seven (7) Days.

## CSGP Checklist - Section B: (Continued)

B-12 (Continued)
Phase 1: (Continued)
G. Install Culverts Using Trenchless Installation Methods.
H. Grade Existing Ditches To Drain.
I. Install Sediment Control Measures Prior To Discharge Points.
Phase 2:
A. Install Erosion Control Measures As Each New Item Of The Project Is Installed As Required On The South Half Of US 20 Which May Include But Is Not Limited To Culvert Pipe Protection, Silt Fence, Protected Resource Fence, Protected Resource Signs, Rock Check Dams, Erosion Control Blankets, and Riprap.
B. Begin Earthwork Operations.
C. Install Temporary Interceptor Ditches, Diversion Interceptors with Slope Drains, and Temporary Sediment Traps.
D. The Contractor Shall Coordinate With The Engineer On The Location Of The Following Construction Areas Prior To Implementation: Staging Areas, Boring/Receiving Pits, Material Storage Areas, & Fueling Stations.
E. Temporary Seed And Stabilize Disturbed Areas If To Be Disturbed More Than Seven (7) Days.
F. Extend Existing Drainage Structures On The South Half Of US 20.
G. Riprap Culvert Discharge Locations.
H. Complete Pavement Widening, Pavement Patching, Guardrail Installation And HMA Wedge And Level On The South Half Of US 20.
I. Finish Grading.
J. Install Permanent Erosion Control Measures And Remove Temporary Erosion Control Measures Only After The Minimum Vegetative Growth Has Occurred On The South Half Of US 20.
Phase 3:
A. Install Erosion Control Measures As Each New Item Of The Project Is Installed As Required On The North Half Of US 20 Which May Include But Is Not Limited To Culvert Pipe Protection, Silt Fence, Protected Resource Fence, Protected Resource Signs, Rock Check Dams, Erosion Control Blankets, and Riprap.
B. Begin Earthwork Operations.
C. Install Temporary Interceptor Ditches, Diversion Interceptors with Slope Drains, and Temporary Sediment Traps.
D. The Contractor Shall Coordinate With The Engineer On The Location Of The Following Construction Areas Prior To Implementation: Staging Areas, Boring/Receiving Pits, Material Storage Areas, & Fueling Stations.
E. Temporary Seed And Stabilize Disturbed Areas If To Be Disturbed More Than Seven (7) Days.
F. Extend Existing Drainage Structures On The North Half Of US 20.
G. Riprap Culvert Discharge Locations.
H. Complete Pavement Widening, Pavement Patching, Guardrail Installation And HMA Wedge And Level On The North Half Of US 20.
I. Finish Grading.
J. Install Permanent Erosion Control Measures And Remove Temporary Erosion Control Measures Only After The Minimum Vegetative Growth Has Occurred On The North Half Of US 20.

B-13 Provisions For Erosion And Sediment Control On Individual Building Lots Regulated Under This Project
N/A.

B-14 Material Handling And Spill Response Plan Meeting The Requirements In 327 IAC 2-6.1
Vehicle And Equipment Maintenance: Onsite Vehicle And Equipment Maintenance Should Only Be Used Where It Is Impractical To Send Vehicles And Equipment Offsite For Maintenance And Repair. If Maintenance Must Occur Onsite, The Area Where Repairs Are To Be Made Must Be Located Away From Drainage Courses. Drip Pans And/Or Absorbent Pads Should Be Used During Vehicle And Equipment Maintenance Work That Involves Fluids, Unless The Maintenance Work Is Performed Over An Impermeable Surface In A Dedicated Maintenance Area. Inspect Onsite Vehicles And Equipment Daily At Startup For Leaks, And Repair Immediately. Properly Dispose Of Used Oils, Fluids, Lubricants And Spill Cleanup Materials. Do Not Place Used Oil In A Dumpster Or Pour Into A Storm Drain Or Watercourse.

Vehicle Fueling: Onsite Vehicle And Equipment Fueling Should Only Be Used Where It Is Impractical To Send Vehicles And Equipment Offsite For Fueling. Drip Pans And Absorbent Pads Should Be Used During Vehicle And Equipment Fueling, Unless The Fueling Is Performed Over An Impermeable Surface In A Dedicated Fueling Area. Nozzles Used In Vehicle And Equipment Fueling Should Be Equipped With An Automatic Shutoff To Control Drips. Fueling Operations Should Not Be Left Unattended. Federal, State, And Local Requirements Should Be Observed For Any Stationary Above Ground Storage Tanks.

Alert Procedure For Spills: In The Event Of A Material Spill (Fuel, Oil, Fluids, Lubricants, Etc.), Barricade The Area Allowing No Vehicles To Enter Or Leave The Spill Zone. Notify The Indiana Department Of Environmental Management (IDEM), Office Of Emergency Response, By Calling The Appropriate Phone Number: Office 317-233-7745 Or Toll Free: 800-233-7745. Also, The National Response Center At 800-424-8802 And Provide The Following Information: Time Of Observation Of The Spill, Location Of The Spill, Identify Material Spilled, Probable Time And Source Of Spill, Weather Conditions, Personnel At Scene And Action Initiated By Personnel. Notify The Local Fire Department And Police Department. Coordinate And Monitor Cleanup Until The Situation Has Been Stabilized And The Spill Has Been Eliminated.

B-15 Material Handling And Storage Procedures Associated With Construction Activity Describing The Management And Disposal Of Construction Products And Waste, Including Concrete And Cementitous Washout Areas And Management Measures
Debris Collection: To Prevent Clogging Of The Storm Drainage System, Litter And Debris Removal From Drainage Grates, Trash, Rocks, And Ditch Lines Should Be A Priority. Construction Debris And Waste Should Be Removed From The Site Biweekly Or More Frequently As Needed. Construction Material Visible To The Public Should Be Stored In An Orderly Manner. Stormwater Runoff Should Be Prevented From Contacting Stored Solid Waste.

Concrete Washout: Per INDOT Standard Specifications 205.03(e), Perform Washout Of Concrete Trucks Offsite Or In Designated Areas Only. Straw Bale Washout Pits Will Not Be Allowed. Concrete Washout Wastewater May Either Be Recycled Back Into The Truck, Washed Out Into An Adequately Sized And Lined Roll Off Container Or Lined In-Ground Pit, An Approved Manufactured Product, Or Taken Back To The Batch Plant. Lining Shall Consist Of A Minimum Of One Sheet Of 10 Mil Plastic, Be Continuous With No Over Lapping, And Shall Be Free Of Breaks.

For On Site Washout: Per INDOT Standard Specifications 205.03(e), Locate Washout Area At Least Fifty (50) Feet From Storm Drains, Open Ditches Or Bodies Of Water; Do Not Allow Runoff From This Area By Constructing A Temporary Berm Or Holding Area Large Enough For Liquid And Solid Waste; Wash Out Wastes Into The Designated Area Where The Concrete Can Set And Be Broken Up And Then Disposed Of Properly.

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: LRH DRAWN: LRH
CHECKED: JWG CHECKED: JWG

INDIANA DEPARTMENT OF TRANSPORTATION

EROSION CONTROL NOTES

| | |
|---|---|
| HORIZONTAL SCALE | BRIDGE FILE |
| N/A | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 123 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

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PRELIMINARY PLANS

CSGP Checklist - Section C:
Stormwater Pollution Prevention Plan - Post-Construction

C-1 Description Of Potential Pollutants And Their Sources Associated With The Proposed Land Use
See The Potential Storm Water Pollutants And Spill Prevention Handling Table Located On The Erosion Control Details.

C-2 Description Of Proposed Post Construction Stormwater Quality Measures.
Permanent Erosion Control Measure Will Be Used As Shown On The Plan & Profile And Erosion Control Sheets For Post-Construction Stormwater Quality Management. Seed Will Be Used In All Disturbed Areas For Permanent Stormwater Quality Measures. Geotextiles Will Be Utilized Under Riprap At All Locations In Accordance w/INDOT Standard Specifications 616.11. Riprap Splash Pads Shall Be Constructed At Pipe Outlets As Shown On The Plan & Profile And Erosion Control Sheets In Accordance With 616.05.

| Location | Pre-Construction (10 yr.) | Post-Construction (10 yr.) |
|---|---|---|
| 255+00 to 284+00 "PR-D" | 27.93 cfs | 29.92 cfs |
| 284+00 to 290+00 "PR-D" | 6.05 cfs | 7.23 cfs |
| 290+00 to 315+00 "PR-D" | 25.13 cfs | 27.53 cfs |
| 315+00 to 359+00 "D" | 38.12 cfs | 41.87 cfs |
| 359+00 to 367+00 "D" | 11.29 cfs | 12.10 cfs |
| 367+00 to 411+00 "D" | 34.66 cfs | 37.53 cfs |

C-3 Location, Dimensions, Detail Specifications, And Construction Details Of All Post-Construction Stomwater Quality And Stormwater Management Measures Listed In C-2 Above
See The Erosion Control Sheets & Erosion Control Details.

C-4 Sequence Describing Stormwater Quality Measure Implementation.
All Disturbed Ground Will Be Seeded And Stabilized Immediately After Grading Or When The Project Is Substantially Complete. Riprap Splash Pads And Geotextiles Shall Be Constructed As Soon As Outlet Structures Are Installed. See The Plan & Profile, Erosion Control & Erosion Control Detail Sheets.

C-5 Description Of Maintenance Guidelines For Post Construction Stormwater Quality Measures.
The Contractor Shall Ensure That Revegetated Areas Become Fully Established And Shall Water, Re-Seed And Re-Stabilize As Necessary. The Owners Shall Clean Up Trash And Shall Perform Maintenance On The Storm Sewer System At Regularly Scheduled Intervals.

C-6 Entity That Will Be Responsible For Operation And Maintenance Of The Post-Construction System (If Known)
INDOT LaPorte District.

## INDOT STANDARD DRAWING REFERENCES

SF — SILT FENCE
Installation Shall Be Per INDOT Standard Drawing E 205-TECD-11.

CULVERT PIPE PROTECTION
Installation Shall Be Per INDOT Standard Drawing E 205-TECD-02.

ROCK CHECK DAM
Installation Shall Be Per INDOT Standard Drawing E 205-TECD-06.

DITCH SEDIMENT TRAP
Installation Shall Be Per INDOT Standard Drawing E 205-TECD-09 And Detail Shown In Plans.

DI — TEMP. DIVERSION INTERCEPTOR
Installation Shall Be Per INDOT Standard Drawing E 205-TECD-04.

TI — TEMP. INTERCEPTOR DITCH
Installation Shall Be Per INDOT Standard Drawing E 205-TECS-01.

S — SLOPE DRAIN
Installation, Materials And Maintenance Shall Be Per INDOT Standard Drawing E 205-TECS-02 & 03.

FS — FILTER SOCK
Installation Shall Be Per INDOT Standard Drawing E 205-TECD-10.

DROP INLET PROTECTION
Installation Shall Be Per INDOT Standard Drawing E 205-TECD-04.

## SEDIMENT TRAP TABLE - PHASE 2

| STATION | DRAINAGE AREA | STORAGE REQUIRED | STORAGE PROVIDED | SPILLWAY HEIGHT | SEDIMENT TRAP WIDTH | SEDIMENT TRAP LENGTH |
|---|---|---|---|---|---|---|
| LINE "D" | (ACRE) | (CFT.) | (CFT.) | (FT.) | (LFT.) | (LFT.) |
| 262+50 | 0.78 | 1,372.00 | 58.00 | 1.00 | 7.00 | 50.00 |
| 280+00 | 1.77 | 3,108.00 | 73.00 | 0.50 | 4.40 | 187.58 |
| 281+25 | 0.68 | 1,186.00 | 377.00 | 2.50 | 10.00 | 90.50 |
| 291+00 | 0.41 | 712.00 | 794.00 | 2.00 | 16.00 | 149.08 |
| 327+00 | 0.75 | 1,311.00 | 273.00 | 3.00 | 12.00 | 45.50 |
| 341+75 | 2.97 | 5,212.00 | 64.00 | 1.00 | 4.00 | 96.17 |
| 359+75 | 1.66 | 2,922.00 | 1,484.00 | 2.50 | 17.50 | 203.58 |

## SEDIMENT TRAP TABLE - PHASE 3

| STATION | DRAINAGE AREA | STORAGE REQUIRED | STORAGE PROVIDED | SPILLWAY HEIGHT | SEDIMENT TRAP WIDTH | SEDIMENT TRAP LENGTH |
|---|---|---|---|---|---|---|
| LINE "D" | (ACRE) | (CFT.) | (CFT.) | (FT.) | (LFT.) | (LFT.) |
| 320+50 | 0.55 | 958.00 | 149.00 | 2.00 | 8.00 | 56.00 |
| 392+00 | 0.34 | 604.00 | 12.00 | 0.50 | 2.00 | 73.17 |
| 392+75 | 1.82 | 3,196.00 | 569.00 | 2.00 | 8.00 | 213.58 |

NOTE:
Due To Right-Of-Way And Topographic Restrictions, Many Of The Sediment Traps Were Not Able To Meet The Required Storage Capacity In Accordance With The INDOT Design Manual And IDEM Stormwater Quality Manual. Timely Stabilization Of Disturbed Areas And Implementation Of The Other Erosion And Sediment control Measures Shall Occur To Minimize The Potential For Sediment Discharges From The Project.

## EROSION AND SEDIMENT CONTROL PLAN ELEMENTS


| ITEM NO. | DESIGNATION | SHEET NO. |
|---|---|---|
| A-1 | STORMWATER POLLUTION PREVENTION PLAN INDEX | 118 |
| A-2 | VICINITY MAP | 01 |
| A-3 | PROJECT NARRATIVE | 117 |
| A-4 | PROJECT LATITUDE AND LONGITUDE | 117 |
| A-5 | LEGAL DESCRIPTION | 117 |
| A-6 | 11x17 INCH PLAT SHEETS | 07-09 |
| A-7 | BOUNDARIES OF 100-YEAR FLOODPLAINS, FLOODWAY FRINGES, AND FLOODWAYS | 128-129 |
| A-8 | LAND USE OF ADJACENT PROPERTIES | 117 |
| A-9 | IDENTIFICATION OF U.S. EPA APPROVED OR ESTABLISHED TMDL | 117 |
| A-10 | NAME(S) OF RECEIVING WATER(S) | 117 |
| A-11 | IDENTIFICATION OF DISCHARGES TO WATER ON 303(d) LIST | 117 |
| A-12 | SOILS MAP | 131-136 |
| A-13 | IDENTIFICATION AND LOCATION OF ALL KNOW WETLANDS, LAKES AND WATERCOURSES | 117 |
| A-14 | IDENTIFICATION OF ANY OTHER STATE OR FEDERAL WATER QUALITY PERMITS | 117 |
| A-15 | IDENTIFICATION AND DELINEATION OF EXISTING COVER | 117 |
| A-16 | EXISTING SITE TOPOGRAPHY | 45-55, 84-120, 246-373 |
| A-17 | LOCATION(S) WHERE RUN-OFF ENTERS PROJECT SITE | 45-55, 246-373 |
| A-18 | LOCATION(S) WHERE RUN-OFF DISCHARGES FROM PROJECT SITE PRIOR TO LAND DISTURBANCE | 45-55, 246-373 |
| A-19 | LOCATION OF ALL EXISTING STRUCTURES ON THE PROJECT SITE | 45-55 |
| A-20 | EXISTING PERMANENT RETENTION OR DETENTION FACILITIES | 117 |
| A-21 | LOCATION(S) WHERE STORMWATER MAY BE DIRECTLY DISCHARGED INTO GROUND WATER | 117 |
| A-22 | SIZE OF THE PROJECT AREA | 117 |
| A-23 | TOTAL EXPECTED LAND DISTURBANCE | 117 |
| A-24 | PROPOSED FINAL TOPOGRAPHY | 45-55, 246-373 |
| A-25 | LOCATIONS AND APPROXIMATE BOUNDARIES OF ALL DISTURBED AREAS | 45-55 |
| A-26 | LOCATIONS, SIZE, AND DIMENSIONS OF ALL STORMWATER DRAINAGE SYSTEMS | 117 |
| A-27 | LOCATIONS OF SPECIFIC POINTS WHERE DISCHARGE WILL LEAVE PROJECT SITE | 45-55, 246-373 |
| A-28 | LOCATION OF ALL PROPOSED SITE IMPROVEMENTS | 45-55, 117 |
| A-29 | LOCATION OF ALL ON-SITE AND OFF-SITE SOIL STOCKPILES AND BORROW AREAS | 117 |
| A-30 | CONSTRUCTION SUPPORT ACTIVITIES | 117 |
| A-31 | LOCATION OF ANY IN-STREAM ACTIVITIES | 117 |
| | | |
| B-1 - B-15 | CONSTRUCTION COMPONENT | 117 |
| | | |
| C-1 - C-6 | POST-CONSTRUCTION COMPONENT | 118 |


RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: LRH DRAWN: LRH
CHECKED: JWG CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL NOTES

| | |
|---|---|
| HORIZONTAL SCALE | BRIDGE FILE |
| N/A | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 124 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS


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## EROSION CONTROL NOTES

GENERAL:
Take Measures To Control Erosion And Sedimentation To Assure That Sediment Is Not Transported From The Site By Storm Events. Practices Such As Sediment Traps Or Filters Shall Be Installed Prior To Land Disturbing Activities. New Drainage Swales Shall Be Seeded And/Or Sodded, Or Other Protective Practices Applied, Immediately Following Construction. All Practices Shall Be Maintained To Remove Sediment From Runoff Leaving The Site As Long As Unstabilized Soil Conditions Exist.

After Land Disturbing Activities Cease And The Soil Is Stabilized, Temporary Erosion Control Measures May Be Eliminated If Their Purpose Has Been Fulfilled. Any Disturbed Soil Resulting From Removal Of Such Practices Shall Be Stabilized By Approved Methods.

Dispose Properly All Waste And Unused Building Materials Including, But Not Limited To, Garbage, Debris, Cleaning Wastes, Water, Toxic Materials, And Hazardous Substances. Do Not Allow Substances To Be Carried By Runoff Into A Receiving Channel Or Storm Sewer System.

Clean Public Or Private Roadways Daily And After Major Storms Using Acceptable Methods To Remove Any Accumulated Sediment. The Developer's Contractors Are Responsible For Supervision Of The Construction Activity Within The Development And Shall Take All Necessary Actions To Remove Sediment From The Streets.

For Construction Sequence, Maintenance, And Other Soil Erosion Requirements, See Specifications For Site Clearing, Slope Protection, Erosion Control, Landscaping, And Seeding.

Erosion And Sediment Control Practices Must Adhere To, Or Exceed Those Shown On The Erosion Control Plan, (And The Construction Stormwater General Permit) And Shall Be In Accordance With The Indiana Storm Water Quality Manual, Indiana Department Of Environmental Management.

SURFACE STABILIZATION:
Cut Slopes Which Are To Be Topsoiled Should Be Scarified To A Minimum Depth Of 4 Inches Prior To Placement Of Topsoil. Install Erosion Control Blankets On All Slopes Of 3 (Horizontal) To 1 (Vertical) Or Steeper.

Stabilize All Disturbed Ground Left Inactive For Seven (7) Or More Days By Seeding, Sodding, Mulching, Or By Other Equivalent Erosion Control Practices.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT PAD:
Construct The Temporary Gravel Drive Using 12 Inches Minimum Of INDOT CA No. 2 Washed Stone Over Geotextile. Grade For Positive Drainage.

Inspect The Entrance Pad Area Weekly And After Storm Events Or Heavy Use. Reshape The Pad As Needed For Drainage And Runoff Control. Top Dress Pad With Clean Stone.

SODDING:
Do Not Install Sod On Hot, Dry Soil, Frozen Soil, Compacted Clay, Loose Sand Or Gravel, Or Pesticide Treated Soil. Ideal Sodding Time Is May 1-June 1, Or September 1-September 30, Although It Can Be Installed As Early As March 15, If Available And Temperatures Are Above 32°F, Or June 1-September 1 If Irrigated.

Install Sod After Other Erosion Control Practices Have Been Completed. Break Up Compacted Soils Sufficiently To Create A Favorable Rooting Depth Of 6-8 Inches, Using A Chisel Plow, Disk, Harrow, Or Rake.

Apply Topsoil If The Site Is Otherwise Unsuitable For Establishing Vegetation. Shape, Smooth, And Firm The Soil Surface To Achieve Positive Drainage.

Have The Soil In The Sod Bed Tested To Determine Its pH And Nutrient Level. If The pH Is Too Acidic For The Grass Sod To Be Installed, Apply Lime According To Test Results Or At The Rate Recommended By The Sod Supplier.

Fertilize As Recommended By The Soil Test. If Testing Was Not Done, Consider Applying 400-600 Lbs./Acre Of 12-12-12 Analysis Fertilizer, Or Equivalent Fertilizer, As Recommended By The Soil Test. Consider The Use Of Reduced Phosphorus Application Where Soil Tests Indicate Adequate Phosphorus Levels In The Soil Profile. Work The Fertilizer Into The Soil To 2-4 Inches Deep.

Rake Or Harrow The Area To Achieve A Smooth Final Grade And Then Roll Or Cultipack The Soil Surface To Create A Firm Surface On Which To Lay The Sod.

TREE CONSERVATION/PROTECTION:
Protect Trees From Construction Equipment By Fencing Off An Area Equivalent To The Tree's Crown With Temporary Construction Safety Fence. If A Fence Cannot Be Erected, Cushion The Rooting Area With 6 Inches Of Wood Chips, Or Wood Or Brick Paths.

Create Traffic Patterns Such As To Keep Soil Compaction To A Minimum. Store Supplies And Equipment Away From Protected Tree Areas. Aerate Soil Where Compaction Has Been Excessive.

When Clearing Areas Adjacent To Protected Trees, Use Equipment Such As A Brush Cutter Or Rotary Ax, Or Cut By Hand. Where Root Areas Must Be Graded, Cut Large Roots Instead Of Tearing Them With Equipment.

## EROSION CONTROL NOTES (Con't)

Minimize Changes In The Drainage Pattern. Avoid Putting Fill Over The Root System.

Prune Low Hanging Limbs That Could Otherwise Be Broken Off By Equipment.

Repair Wounds Simply By Removing Damaged Bark And Wood Tissue (Do Not Use Tree Paint).

EROSION CONTROL BLANKETS:
Use Machine Produced Mat Of Straw Fiber Matrix Or Curled Wood Excelsior Of 80 Percent, 6 Inch Or Longer Fiber Length.

Evenly Distribute Fibers Over Entire Area Of Blanket To Provide Consistent Thickness.

Provide Blanket With Top Side Covered With Biodegradable Extruded Plastic Mesh.

Treat Blankets To Impart Smolder Resistance Without Use Of Chemical Additives.

Provide "Curlex Blankets" By American Excelsior Company, Or "S150" By North American Green, Or Accepted Substitute.

EROSION CONTROL BLANKET STAPLES:
Use Minimum 0.091 Inch Diameter Steel Wire "U" Shape With Legs 6 Inches In Length With 1 Inch Crown.

SEEDING:
The Following Table Is For General Seeding Information Only. Consult The Indiana Storm Water Quality Manual For Recommendations Relating To Steep Banks And Cuts, High Maintenance Areas, And Channels And Areas Of Concentrated Flow.

SEEDS:
40 Percent Kentucky Bluegrass
40 Percent Creeping Red Fescue
20 Percent Annual Rye Grass

FERTILIZER:
Commercial Fertilizer (12-12-12)*

STRAW:
Clean And Free Of Weed Seeds

*Consider The Use Of Reduced Phosphorus Application Where Soil Tests Indicate Adequate Phosphorus Levels In The Soil Profile.

Spread Fertilizer Uniformly Over Finish Graded Surfaces At A Rate Of 20 Pounds Per 1,000 Square Feet. Thoroughly Disk, Harrow, Or Rake Fertilizer Into Soil To Depth Not Less Than 2 Inches.

Distribute Seed Mix Same Day As Fertilizer Is Applied. Spread Evenly At A Rate Of 3 Pounds Per 1,000 Square Feet. Rake Lightly And Compact Areas With 100 Pound Roller.

Cover Areas With Straw Evenly Spread At A Rate Of 2 Tons Per Acre Immediately After Seeding. Water Areas With Fine Spray. Do Not Flood Or Create Washes. Protect Seeded Areas From Erosion.

Continue Watering Of These Areas On A Daily Basis For The Remainder Of The Construction Period.

Hold Sloped Areas Steeper Than 2 (Horizontal) To 1 (Vertical) With Wire Mesh Or Stakes And Wire.

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Temporary Seeding Dates | | | | | | | |
| Wheat Or Rye | | | | | | | | ▨ | ▨ | ▨ | | |
| Oats | | | ▨ | ▨ | ▨ | | | | | | | |
| Annual Rye Grass | | | | ▨ | ▨ | ■ | ■ | ▨ | | | | |
| | | | | | Permanent Seeding Dates | | | | | | | |
| Non-Irrigated* | | | ▨ | ▨ | ▨ | | | ▨ | ▨ | | | |
| Irrigated | | | ▨ | ▨ | ▨ | ▨ | ▨ | ▨ | ▨ | | | |
| Dormant Seeding** | ▨ | ▨ | | | | | | | | | ▨ | ▨ |

▨ Irrigation Required

* Seeding Dates May Be Extended 5 Days If Mulch Applied And Planted Late Summer

** Increase Seeding Rate By 50%

NOTES:

If Construction Activities Take Place During The Months Of November Through February, Use Dormant Seeding Practices In Place Of Temporary And Permanent Seeding Practices.

See Chapter 7 Of The Indiana Storm Water Quality Manual, For Additional Seeding Recommendations.

## Potential Storm Water Pollutants Material Handling and Spill Prevention

| Trade Name /Material | Source | Chemical/Physical Description | Storm Water Pollutants | Remedial Action |
|---|---|---|---|---|
| Fertilizer | Landscaping Activities | Liquid or Solid Grains | Nitrogen, Phosphorus | (1), (2), (3) |
| Cleaning Solvents | Normal Business Operation | Colorless, Blue Or Yellow-Green Liquid | Percholoroethylene, Methylene Chloride, Trichloroethylene, Petroleum Distillates | Seal Drains & Inlets w/Plastic And Or Tape And Collect Excess, (1), (2), (3), (4) |
| Asphalt | Site Construction | Black Solid | Oil, Petroleum Distillates | (1), (2) Due To Contamination Of Runoff Before Curing Is Complete |
| Concrete | Bridge Construction | White Solid | Limestone, Sand | Concrete Washout Areas Shall Be Utilized & Concrete Disposed Of Properly Once Hardened (2). |
| Paints | Roadway Striping | Various Colored Liquids | Metal Oxides, Stoddard Solvent, Talc, Calcium Carbonate, Arsenic | Care Should Be Taken To Minimize Overspray (1), (2), (3), (4) |
| Curing Compounds | Site Construction | Creamy White Liquid | Naphtha | (1), (2), (3), (4) |
| Wastewater From Constr. Equipment Washing | Construction Equipment | Water | Soil, Oil, Grease, Solids | Equipment Washing Shall Be Executed In A Location Which Does Not Cause Wastewater To Drain Directly To Storm Sewers Or Ditches (i.e. Flat Vegetated Area) (2) |
| Hydraulic Oil/Fluids | Construction Equipment, Cars | Brown Oily Petroleum Hydrocarbon | Mineral Oil | Storm Structures Incorporate A Hooded Outlet Preventing Floatables From Exiting Site, (3), (4) |
| Gasoline | On Site Storage Tanks, Cars, Construction Equipment, Fueling Operations | Colorless, Pale Brown Or Pink Petroleum Hydrocarbon | Benzene, Ethyl Benzene, Toluene, Xylene, MTBE | Storage Tanks Shall Have Emergency Storage Capacity Below Tank In Case Of Rupture, 3'x3'x6" Spill Pans Shall Be Used During Fueling. (3), (4) |
| Diesel Fuel | On Site Storage Tanks, Cars, Construction Equipment, Fueling Operations | Clear, Blue-Green To Yellow Liquid | Bpetroleum Distillate, Oil And Grease, Naphthalene, Xylenes | Storage tanks shall have emergency storage capacity below tank in case of rupture, 3'x3'x6" spill pans shall be used during fueling. (3), (4) |
| Kerosene | Cleaning Operations, Heaters | Pale Yellow Liquid Petroleum Hydrocarbon | Coal Oil, Petroleum Distillates, Arsenic, Copper | 3'x3'x6" Spill Pans Shall Be Used During Fueling Operations And Cleaning Of Equip. To Catch Excess, (1), (2), (3), (4) |
| Antifreeze Coolant | Construction Equipment, Cars | Clear Green/Yellow Liquid | Ethylene Glycol, Propylene Glycol, Heavy Metals (Copper, Lead, Zinc) | (1), (2), (3), (4) |
| Soil Erosion | Exposed Soil | Solid Particles | Soil Sediment | Erosion Control Measures (This Sht.) |
| Solid Waste Trash | Normal Business Operation | Trash, Debris, Refuse | Trash, Debris, Refuse | Trash Cans Shall Be Utilized On Site During And After Construction |

This Table Was Provided For General Information Only To Supplement Information Used In The Rule 5 Permitting Process. The Contractor Is Responsible For Material Handling And Spill Mitigation Procedures.

Notes:
1. All Excess Materials Shall Be Collected And Disposed Of In Accordance With All Federal, State And Local Regulations.
2. Material Shall Not Be Applied Immediately Preceding, During Or Following Rainfall (When Applicable).
3. Spillage Should Be Cleaned Immediately By A Trained Individual And Disposed Of Per Note (2).
4. Store In Sealed Containers Appropriate For Specific Use.

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: LRH DRAWN: LRH
CHECKED: JWG CHECKED: JWG

INDIANA DEPARTMENT OF TRANSPORTATION

EROSION CONTROL NOTES

| | |
|---|---|
| HORIZONTAL SCALE | BRIDGE FILE |
| N/A | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 125 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS

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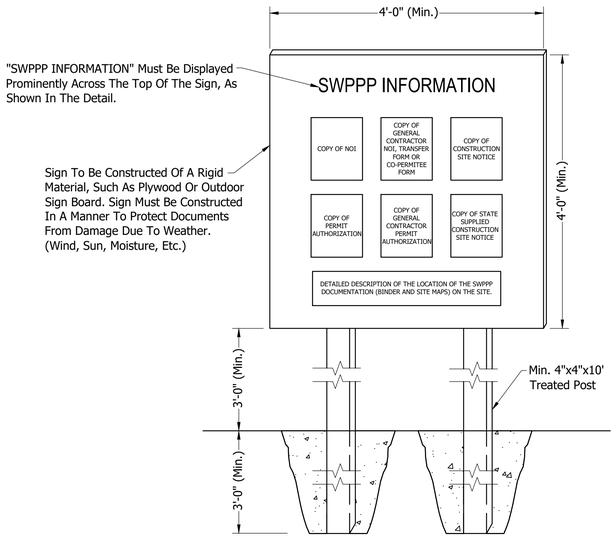



NOTES:

1. The SWPPP Information Sign Must Be Located Near The Construction Entrance Of This Site, Such That It Is Accessible And Viewable By The General Public, But Not Obstructing Views As To Cause A Safety Hazard.

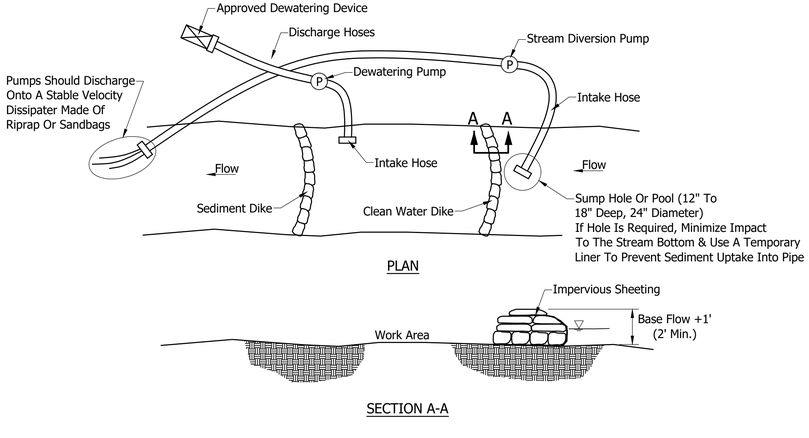
2. All Posted Documents Must Be Maintained In A Clearly Readable Condition At All Times Throughout Construction And Until The Notice-Of-Termination (NOT) Is Filed For The Permit.

3. Contractor Shall Post Other Storm Water And/Or Erosion And Sediment Control Related Permits On The Sign As Required.

4. If Applicable, Sign Shall Be Located Outside Of Public Right-Of-Way And Easements Unless Approved By The MS4 Operator.

## SWPPP INFORMATION SIGN DETAIL

NOT TO SCALE



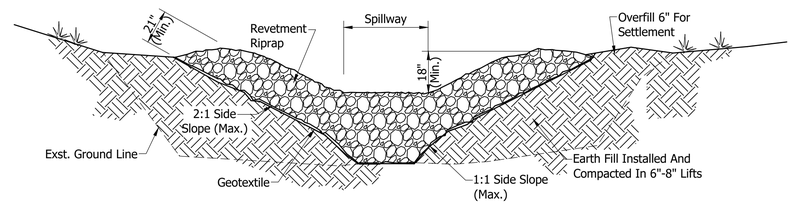

PLAN



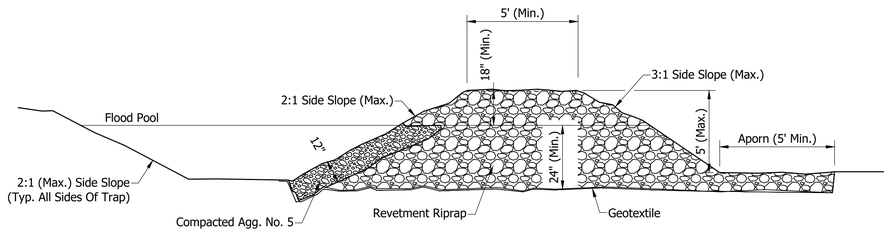

SECTION A-A

## TEMPORRY PUMP AROUND DETAIL

NOT TO SCALE




EARTH EMBANKMENT & STONE OUTLET SECTION




SECTION VIEW OF THE STONE OUTLET

Notes:
The Spillway Width Equals Ditch Bottom Width, Minimum 2 Feet.

The Height Of The Spillway Is As Shown On The Erosion Control Notes.

The Length And Width Of The Basin Are As Shown On The Erosion Control Notes (Maximum Drainage Area Is 5 Acres).

See The Indiana Storm Water Quality Manual For Additional Information.

Installation:
Clear, Grub, And Strip All Vegetation And Root Mat From The Embankment Area.

Create Embankment Using Material Free Of Roots, Rocks, Brush, And Debris. Overfill The Embankment 6 Inches To Allow For Settling.

Excavate A Trapezoidal Stone Outlet Section From The Compacted Embankment (Section A-A).

Install Geotextile And Place Specified Stone To The Lines And Grades Shown.

Stabilize The Embankment And Other Disturbed Areas With Seed And Mulch Or Another Suitable Erosion Resistant Cover.

Maintenance:
Inspect Traps Weekly And Following Each Storm Event And Immediately Repair. Check Embankment For Any Erosion And Piping Holes And Repair.

Remove Sediment When It Has Accumulated To One Half The Design Depth. Check Pool Area Side Slopes For Erosion And Repair.

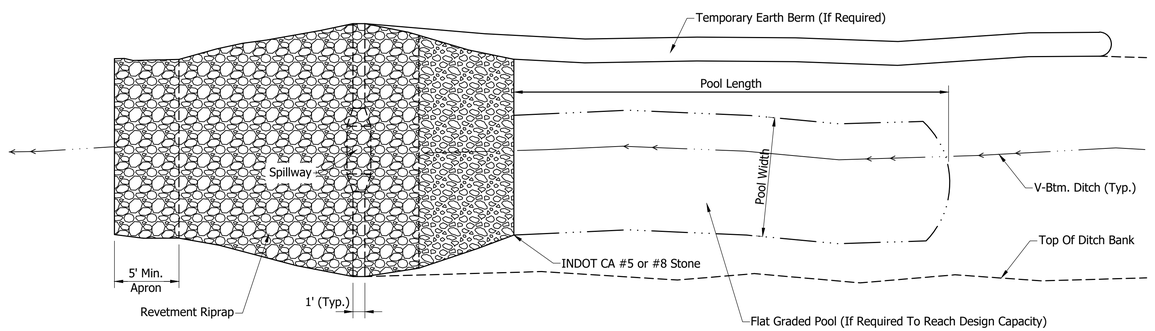
Replace Spillway Gravel Facing If Clogged.

Inspect Vegetation And Reseed Again, If Necessary.

Check The Spillway Depth Periodically To Ensure A Minimum 18 Inch Depth From The Lowest Point Of The Settled Embankment To Highest Point Of The Spillway Crest. Fill Any Low Areas To Maintain The Design Elevation.

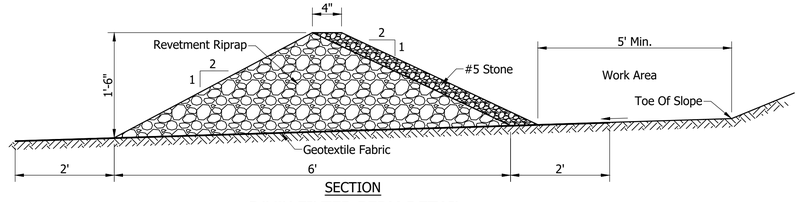
## TEMPORARY SEDIMENT TRAP DETAIL

NOT TO SCALE




TEMPORARY SEDIMENT TRAP DETAIL - PLAN VIEW

NOT TO SCALE




SECTION

## ROCK FILTER BERM DETAIL

NOT TO SCALE

| | | | |
|---|---|---|---|
| RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE | | INDIANA DEPARTMENT OF TRANSPORTATION | HORIZONTAL SCALE: AS SHOWN; VERTICAL SCALE: N/A; BRIDGE FILE: ; DESIGNATION: 1702993 |
| DESIGNED: JWG | DRAWN: BKM | EROSION CONTROL DETAILS | SURVEY BOOK: ; SHEET: 126 OF 283 |
| CHECKED: JCS | CHECKED: JWG | | CONTRACT: R-41437; PROJECT: 1702993 |

BFS NO. 6453.0000

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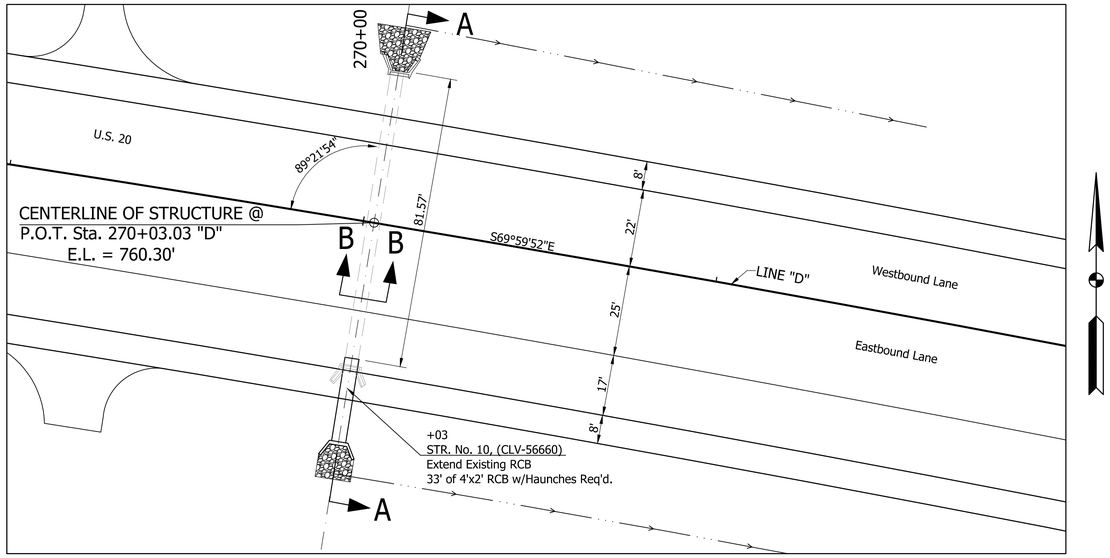
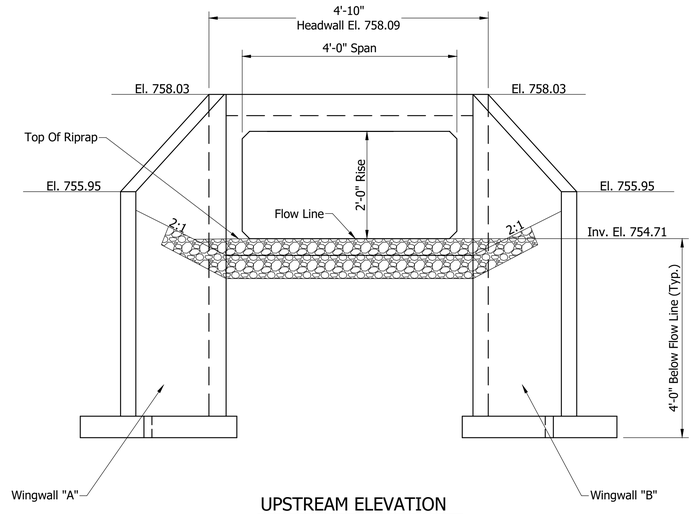
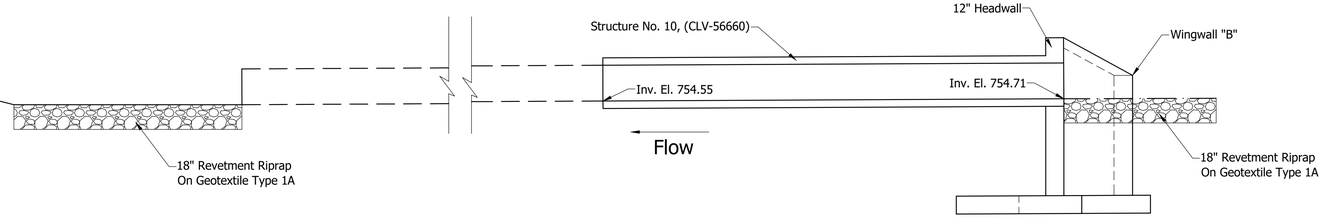
PRELIMINARY PLANS

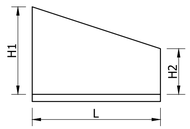


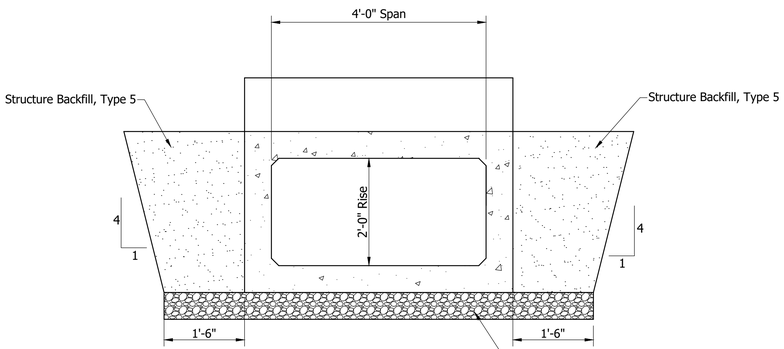

UPSTREAM ELEVATION
Scale: Not To Scale



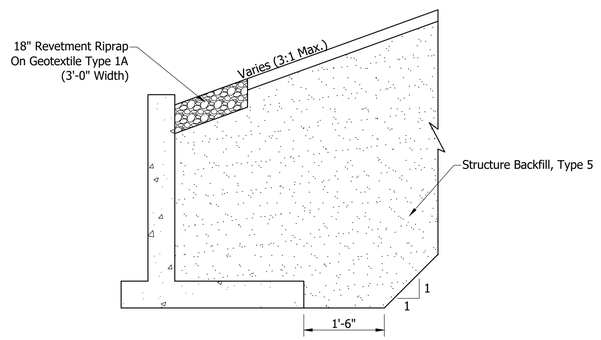

SECTION A-A
Scale: Not To Scale




| WINGWALL TABLE | | | | |
|---|---|---|---|---|
| Designation | Area | H1 | H2 | L |
| | Sq. Ft. | Ft. | Ft. | Ft. |
| A | | 5'-1" | 3'-0" | 4'-0" |
| B | | 5'-1" | 3'-0" | 4'-0" |




SECTION B-B
Scale: Not To Scale




WINGWALL BACKFILL DETAIL
Scale: Not To Scale

## DESIGN DATA

LIVE LOAD: HS25 Loading With impact And Distribution Of Loads In Accordance With 2002 AASHTO Specifications And Subsequent Interims. DEAD LOAD: Actual.

| SOIL PARAMETERS FOR WINGWALL DESIGN | |
|---|---|
| TBD | Factored Bearing Resistance of Foundation Soil, qR (psf) |
| TBD | Resistance Factor, $\phi$ b |
| TBD | Nominal Bearing Resistance of Foundation Soil, qn (psf) |
| TBD | Angle of Internal Friction of Foundation Soil, $\phi$ |
| TBD | Friction Factor Between Footing and Foundation Soil, f |
| TBD | Cohesion of Foundation Soil, C (psf) |
| TBD | Adhesion of Foundation Soil, Ca (psf) |
| TBD | Angle of Internal Friction of Backfill, $\phi$ |
| TBD | Interface Friction Angle Between Concrete and Backfill, $\delta$ |

Note:
Refer to Geotechnical Evaluation Dated May 7th, 2021 For Additional Culvert Considerations.

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JCS DRAWN: RJM

CHECKED: JWG CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

STRUCTURE 10

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1" = 20' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | |
| SURVEY BOOK | SHEET |
| | 127 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | |

BFS NO. 6453.0000

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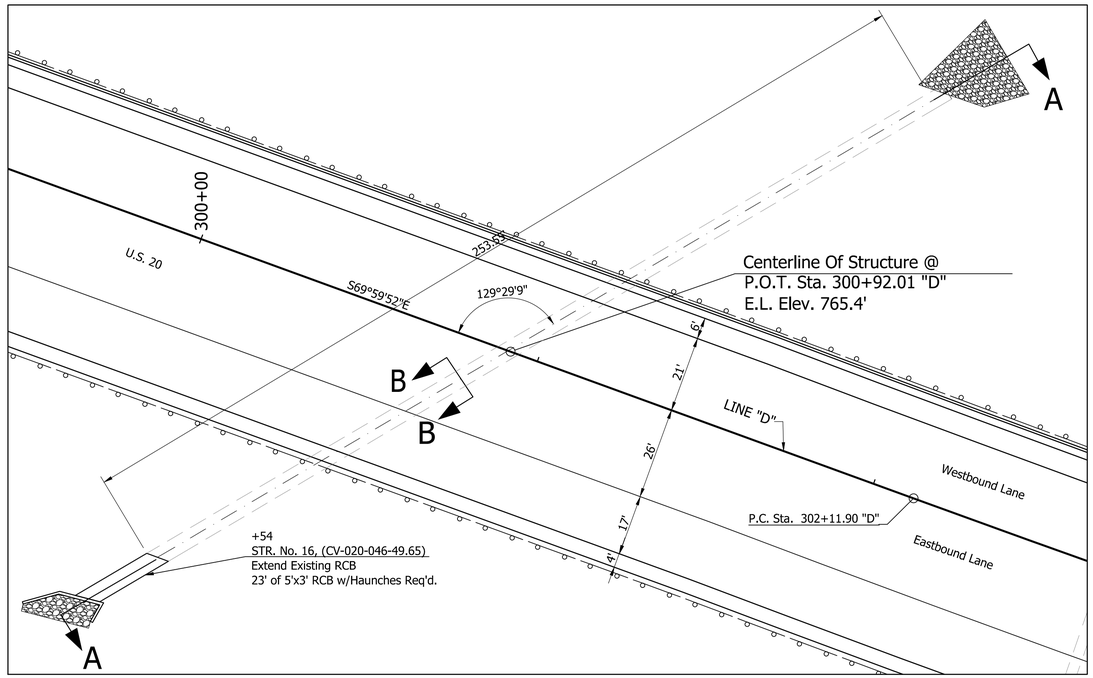
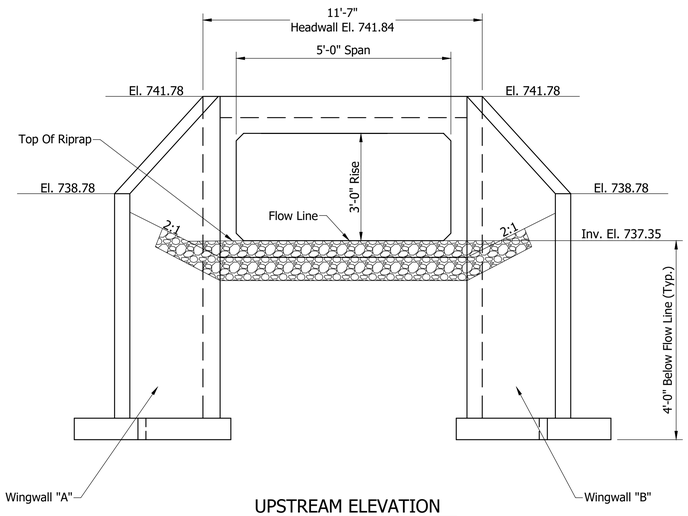
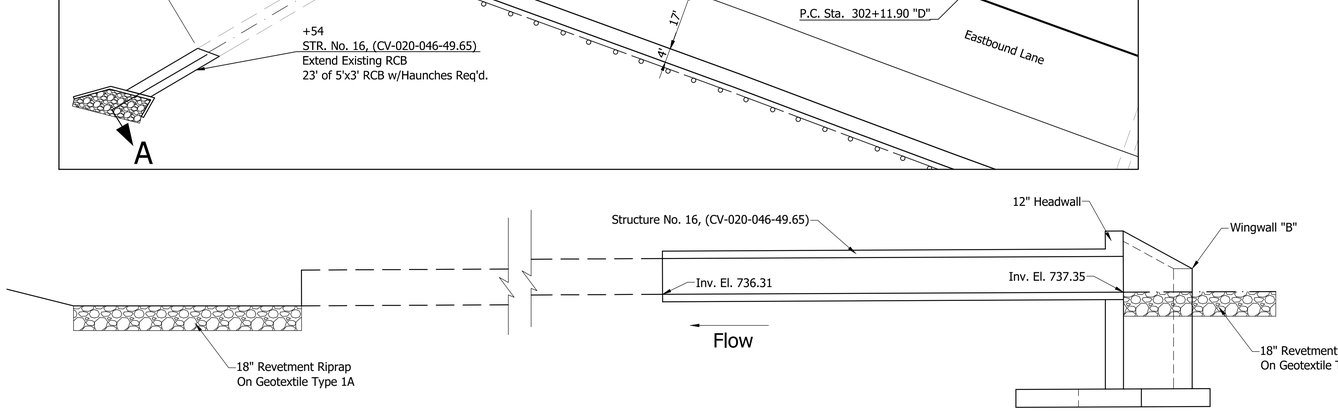
PRELIMINARY PLANS

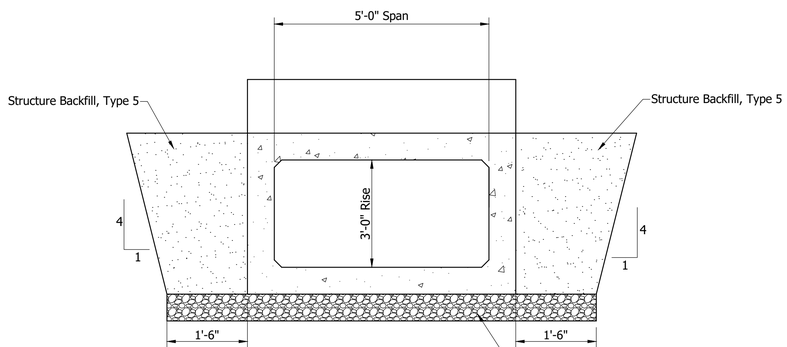


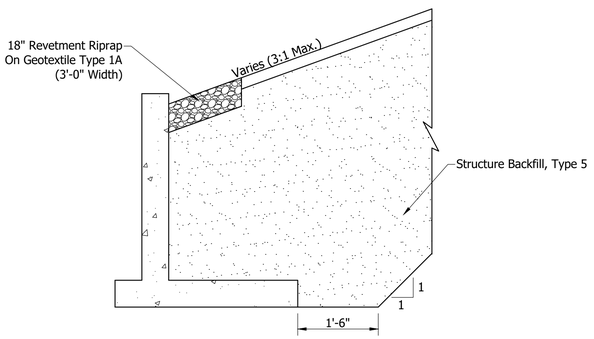

UPSTREAM ELEVATION
Scale: Not To Scale



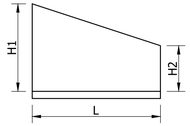

SECTION A-A
Scale: Not To Scale




SECTION B-B
Scale: Not To Scale




WINGWALL BACKFILL DETAIL
Scale: Not To Scale




| WINGWALL TABLE | | | | |
|---|---|---|---|---|
| Designation | Area | H1 | H2 | L |
| | Sq. Ft. | Ft. | Ft. | Ft. |
| A | 53.4 | 6'-6" | 3'-6" | 10'-8" |
| B | 53.4 | 6'-6" | 3'-6" | 5'-6" |

## DESIGN DATA

LIVE LOAD: HS25 Loading With impact And Distribution Of Loads In Accordance With 2002 AASHTO Specifications And Subsequent Interims. DEAD LOAD: Actual.

| SOIL PARAMETERS FOR WINGWALL DESIGN | |
|---|---|
| 3,400 | Factored Bearing Resistance of Foundation Soil, qR (psf) |
| 0.45 | Resistance Factor, $\phi$ b |
| 7,600 | Nominal Bearing Resistance of Foundation Soil, qn (psf) |
| 32° | Angle of Internal Friction of Foundation Soil, $\phi$ |
| 0.62 | Friction Factor Between Footing and Foundation Soil, f |
| 0 | Cohesion of Foundation Soil, C (psf) |
| 0 | Adhesion of Foundation Soil, Ca (psf) |
| 32° | Angle of Internal Friction of Backfill, $\phi$ |
| 17° | Interface Friction Angle Between Concrete and Backfill, $\delta$ |

Note:
Refer to Geotechnical Evaluation Dated May 7th, 2021 For Additional Culvert Considerations.

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JCS DRAWN: RJM

CHECKED: JWG CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

STRUCTURE 16

| | |
|---|---|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1" = 20' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | |
| SURVEY BOOK | SHEET |
| | 128 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | |

BFS NO. 6453.0000

PRELIMINARY PLANS

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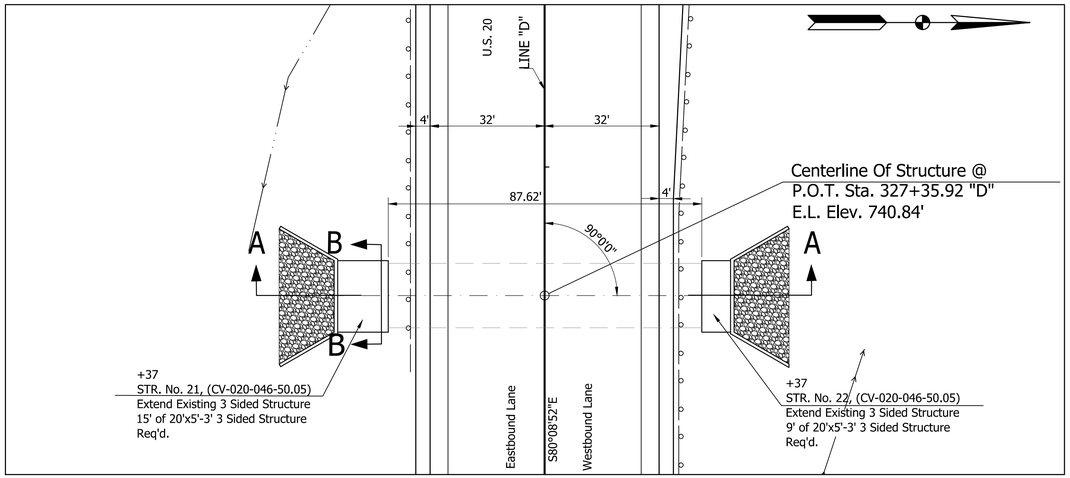
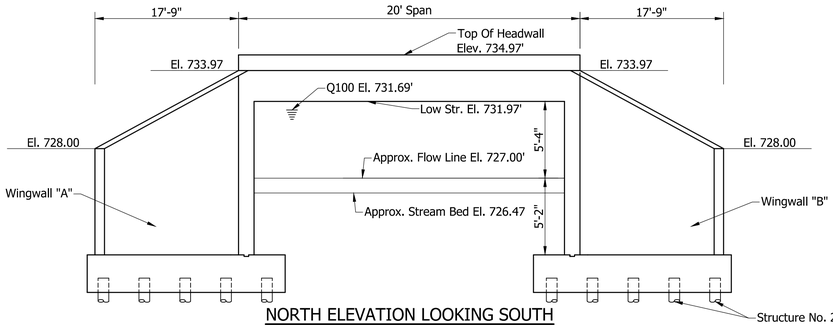
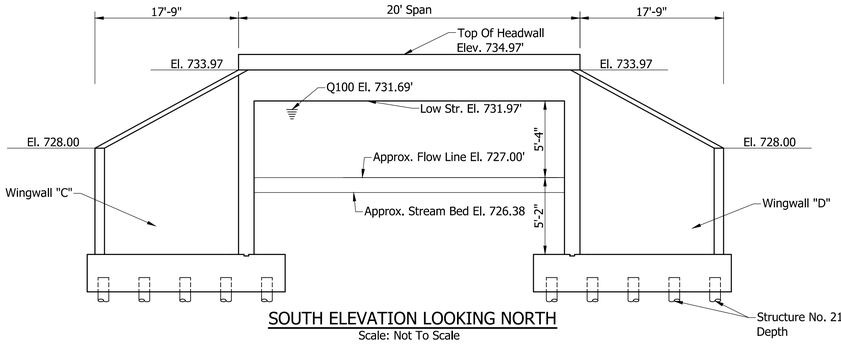
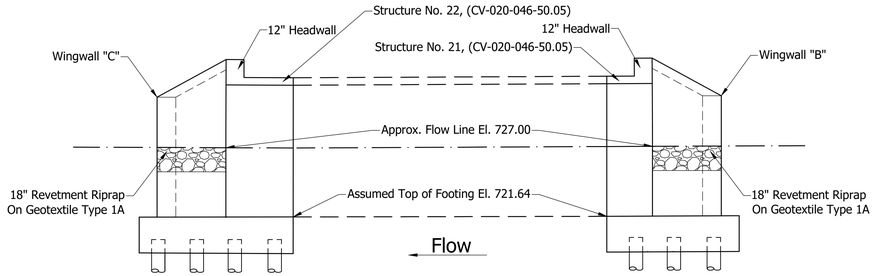


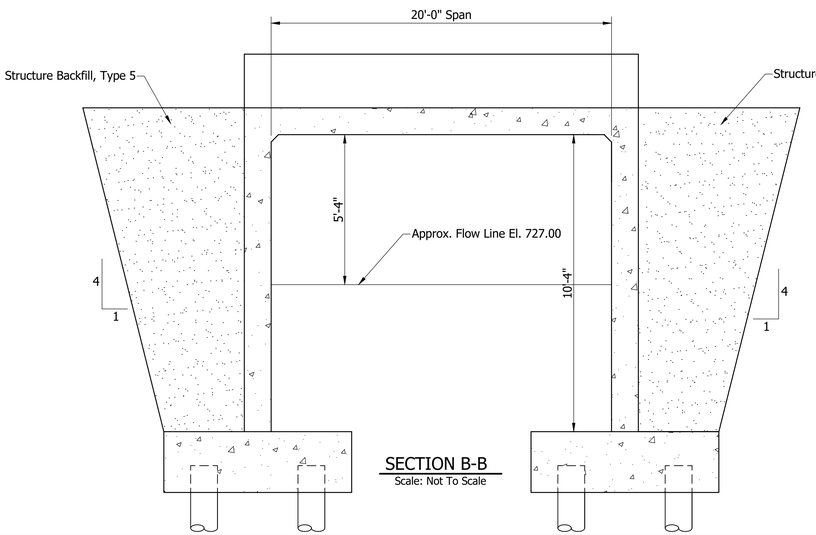

NORTH ELEVATION LOOKING SOUTH
Scale: Not To Scale



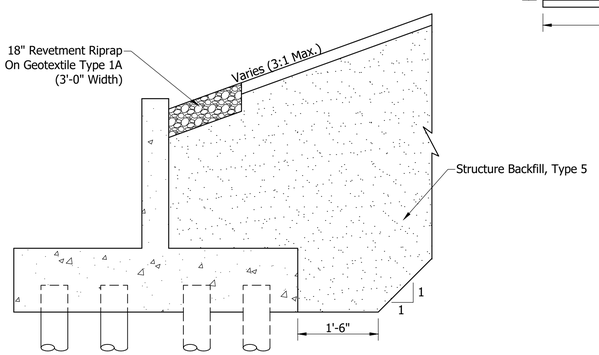

SOUTH ELEVATION LOOKING NORTH
Scale: Not To Scale



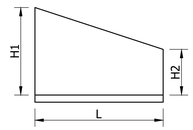

SECTION A-A
Scale: Not To Scale




SECTION B-B
Scale: Not To Scale




WINGWALL BACKFILL DETAIL
Scale: Not To Scale




| WINGWALL TABLE | | | | |
|---|---|---|---|---|
| Designation | Area | H1 | H2 | L |
| | Sq. Ft. | Ft. | Ft. | Ft. |
| A | 130.1 | 10'-4" | 4'-4" | 17'-9" |
| B | 130.1 | 10'-4" | 4'-4" | 17'-9" |
| C | 130.1 | 10'-4" | 4'-4" | 17'-9" |
| D | 130.1 | 10'-4" | 4'-4" | 17'-9" |

## DESIGN DATA

LIVE LOAD: HS25 Loading With impact And Distribution Of Loads In Accordance With 2002 AASHTO Specifications And Subsequent Interims. DEAD LOAD: Actual.

| SOIL PARAMETERS FOR WINGWALL DESIGN | |
|---|---|
| TBD | Factored Bearing Resistance of Foundation Soil, qR (psf) |
| TBD | Resistance Factor, $\phi$ b |
| TBD | Nominal Bearing Resistance of Foundation Soil, qn (psf) |
| TBD | Angle of Internal Friction of Foundation Soil, $\phi$ |
| TBD | Friction Factor Between Footing and Foundation Soil, f |
| TBD | Cohesion of Foundation Soil, C (psf) |
| TBD | Adhesion of Foundation Soil, Ca (psf) |
| TBD | Angle of Internal Friction of Backfill, $\phi$ |
| TBD | Interface Friction Angle Between Concrete and Backfill, $\delta$ |

Note:
Refer to Geotechnical Evaluation Dated May 7th, 2021 For Additional Culvert Considerations.

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JCS DRAWN: RJM

CHECKED: JWG CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

STRUCTURE 21 & 22

| | |
|---|---|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1" = 20' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | |
| SURVEY BOOK | SHEET |
| | 129 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | |

BFS NO. 6453.0000

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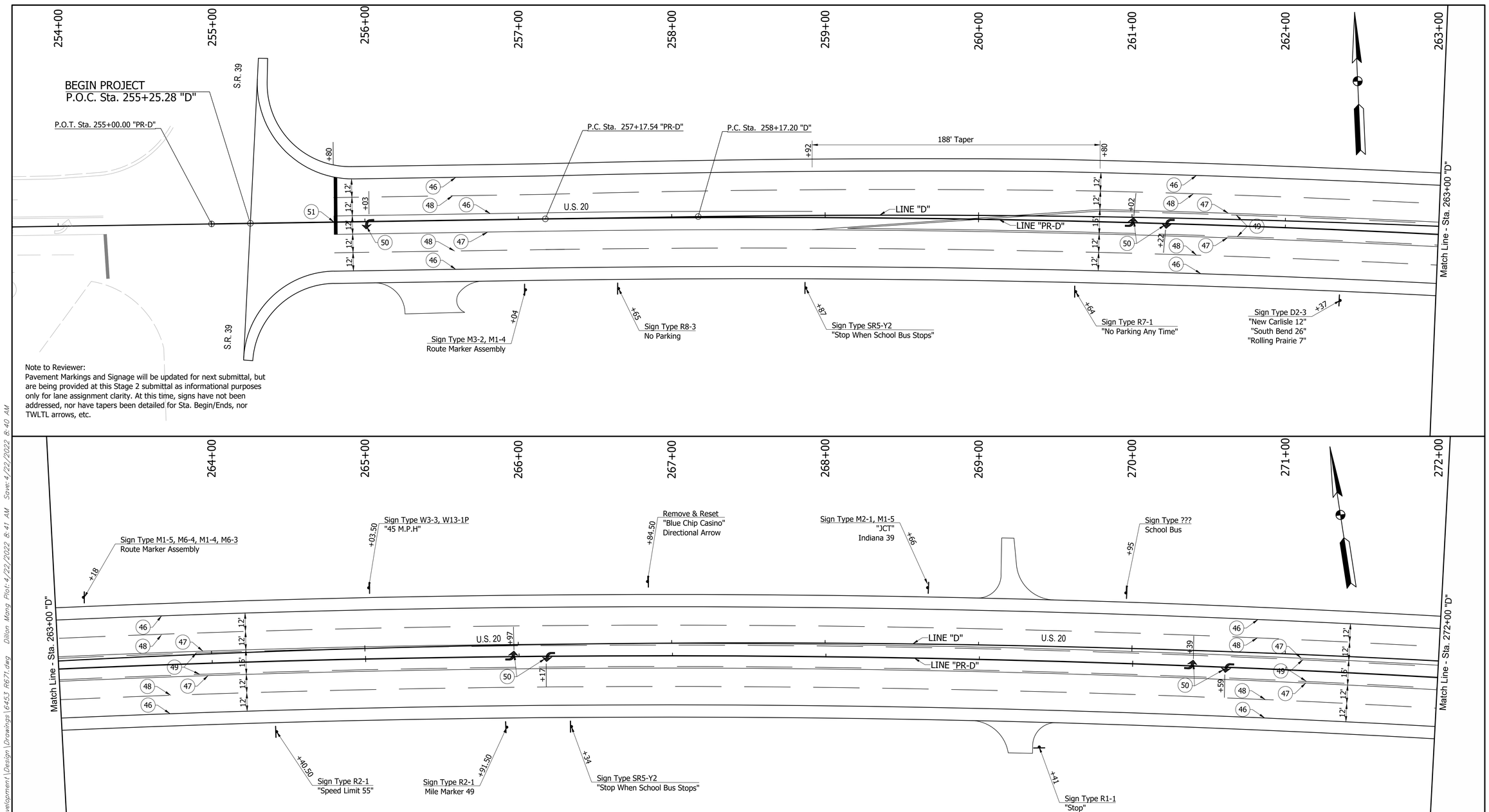
PRELIMINARY PLANS




Note to Reviewer:
Pavement Markings and Signage will be updated for next submittal, but are being provided at this Stage 2 submittal as informational purposes only for lane assignment clarity. At this time, signs have not been addressed, nor have tapers been detailed for Sta. Begin/Ends, nor TWLTL arrows, etc.

## LEGEND

- (46) Line, Multi-Component, Solid, White, 4"
- (47) Line, Multi-Component, Solid, Yellow, 4"
- (48) Line, Multi-Component, Broken, White, 4"
- (49) Line, Multi-Component, Broken, Yellow, 4"
- (50) Pavement Message Marking, Thermoplastic, Lane Indication Arrow
- (51) Transverse Marking, Thermoplastic, Stop Line, 24"

Note:
1. Center Line & Edge Line Corrugations are to be installed (Details & Limits to be provided at next submittal)

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JCS | DRAWN: JMT | CHECKED: JWG | CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING & SIGNAGE

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=30' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 130 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

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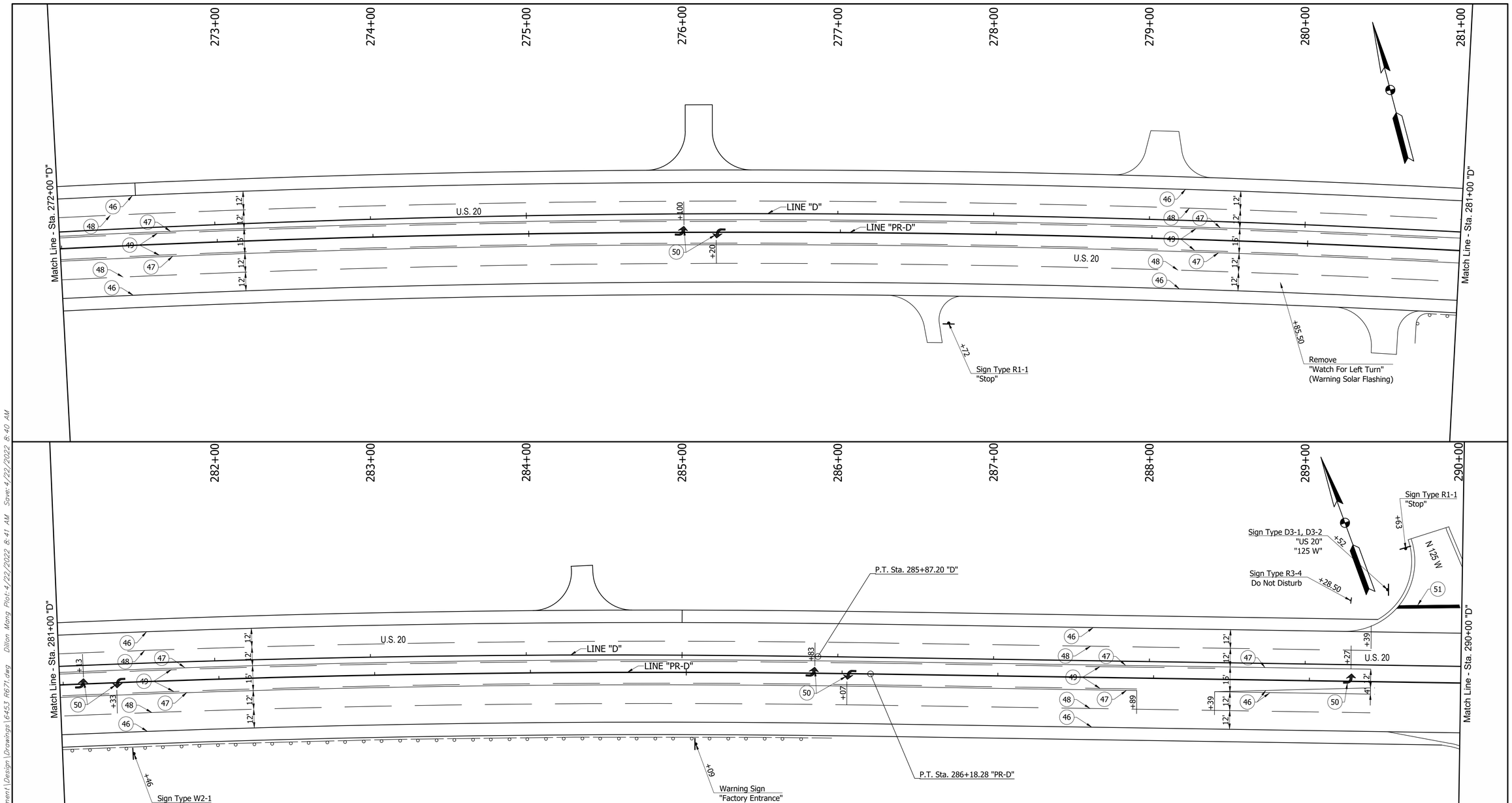
PRELIMINARY PLANS




## LEGEND

- (46) Line, Multi-Component, Solid, White, 4"
- (47) Line, Multi-Component, Solid, Yellow, 4"
- (48) Line, Multi-Component, Broken, White, 4"
- (49) Line, Multi-Component, Broken, Yellow, 4"
- (50) Pavement Message Marking, Thermoplastic, Lane Indication Arrow
- (51) Transverse Marking, Thermoplastic, Stop Line, 24"

Note:
1. Center Line & Edge Line Corrugations are to be installed (Details & Limits to be provided at next submittal)
2. All Stop Bars are 14.5' from the edge of through lane

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JCS | DRAWN: JMT | CHECKED: JWG | CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING & SIGNAGE

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=30' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 131 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

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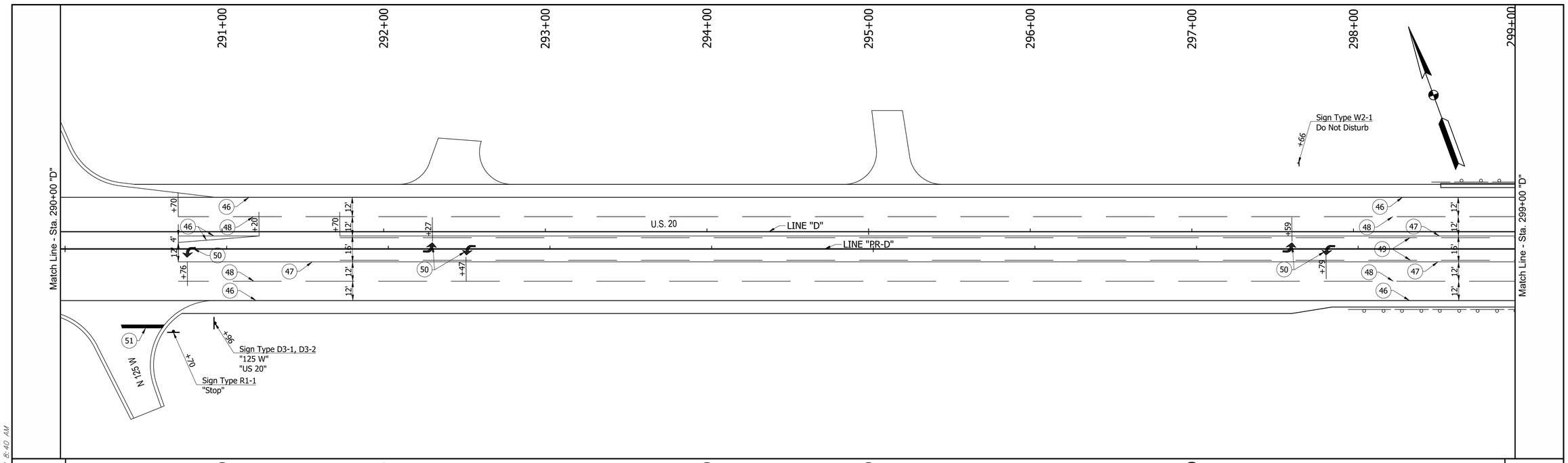
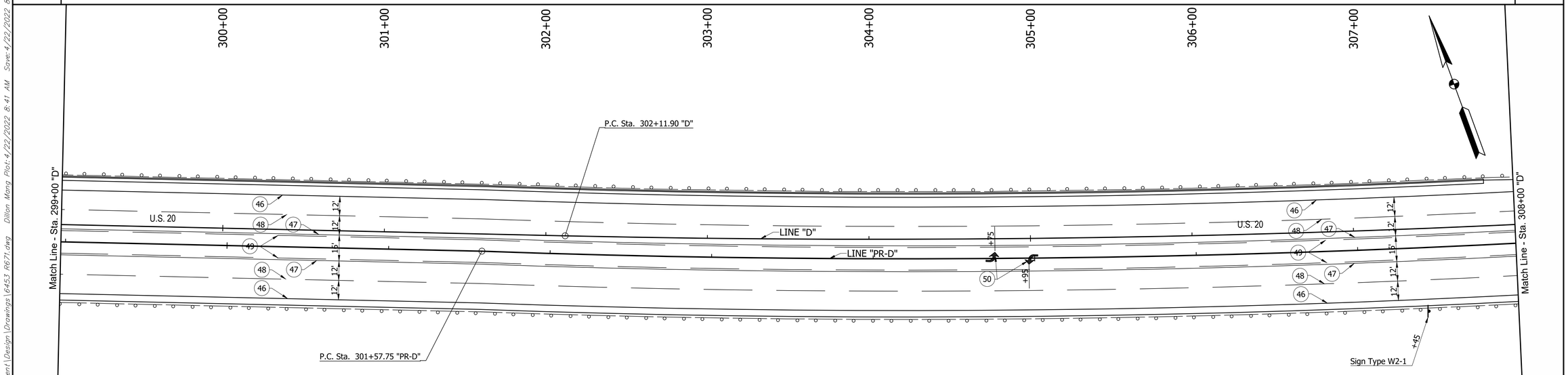
PRELIMINARY PLANS




## LEGEND

- (46) Line, Multi-Component, Solid, White, 4"
- (47) Line, Multi-Component, Solid, Yellow, 4"
- (48) Line, Multi-Component, Broken, White, 4"
- (49) Line, Multi-Component, Broken, Yellow, 4"
- (50) Pavement Message Marking, Thermoplastic, Lane Indication Arrow
- (51) Transverse Marking, Thermoplastic, Stop Line, 24"

Note:
1. Center Line & Edge Line Corrugations are to be installed (Details & Limits to be provided at next submittal)
2. All Stop Bars are 14.5' from the edge of through lane

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JCS DRAWN: JMT

CHECKED: JWG CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING & SIGNAGE

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=30' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 132 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

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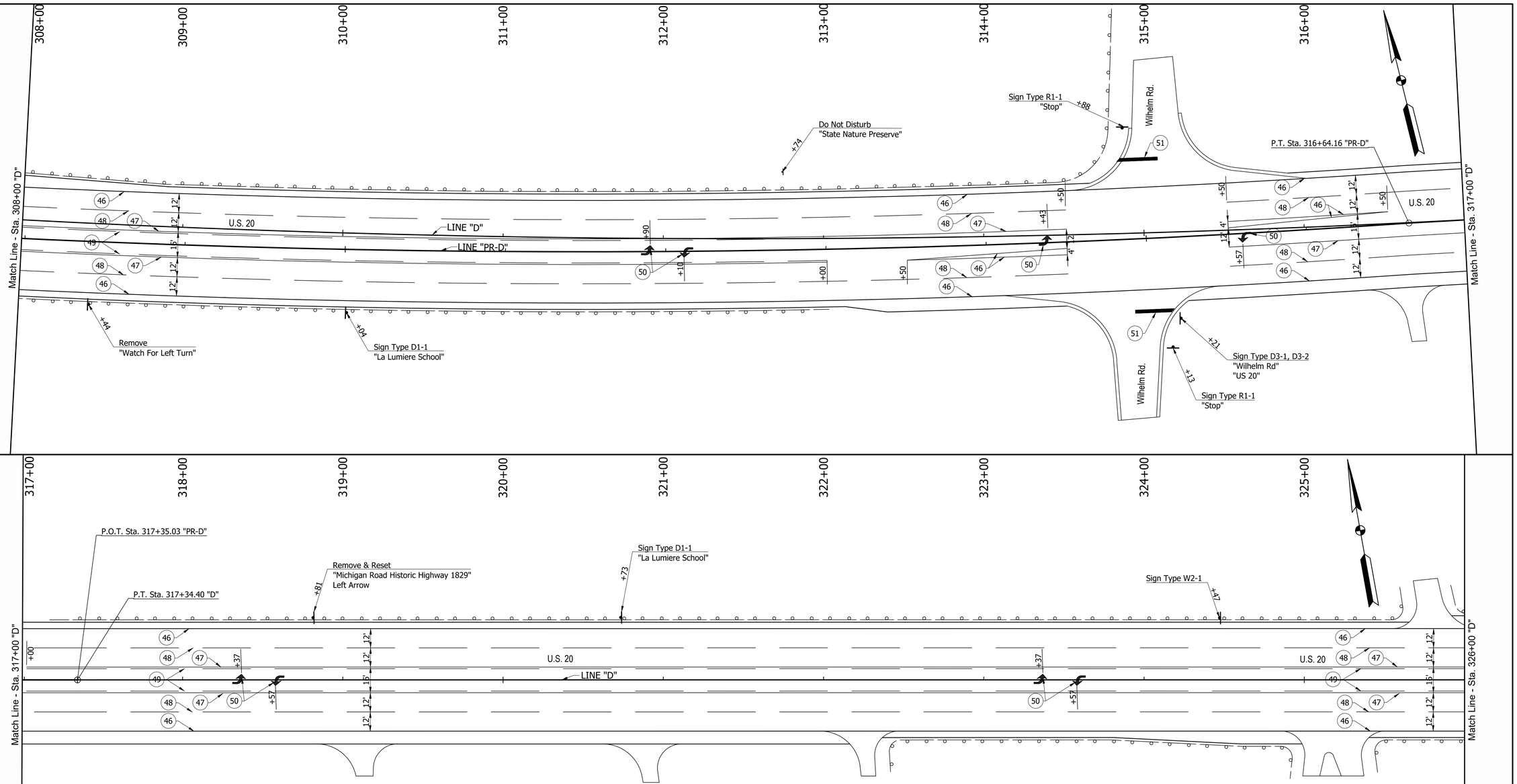
PRELIMINARY PLANS




## LEGEND

- (46) Line, Multi-Component, Solid, White, 4"
- (47) Line, Multi-Component, Solid, Yellow, 4"
- (48) Line, Multi-Component, Broken, White, 4"
- (49) Line, Multi-Component, Broken, Yellow, 4"
- (50) Pavement Message Marking, Thermoplastic, Lane Indication Arrow
- (51) Transverse Marking, Thermoplastic, Stop Line, 24"

Note:
1. Center Line & Edge Line Corrugations are to be installed (Details & Limits to be provided at next submittal)
2. All Stop Bars are 14.5' from the edge of through lane

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JCS | DRAWN: JMT | CHECKED: JWG | CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING & SIGNAGE

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=30' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 133 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

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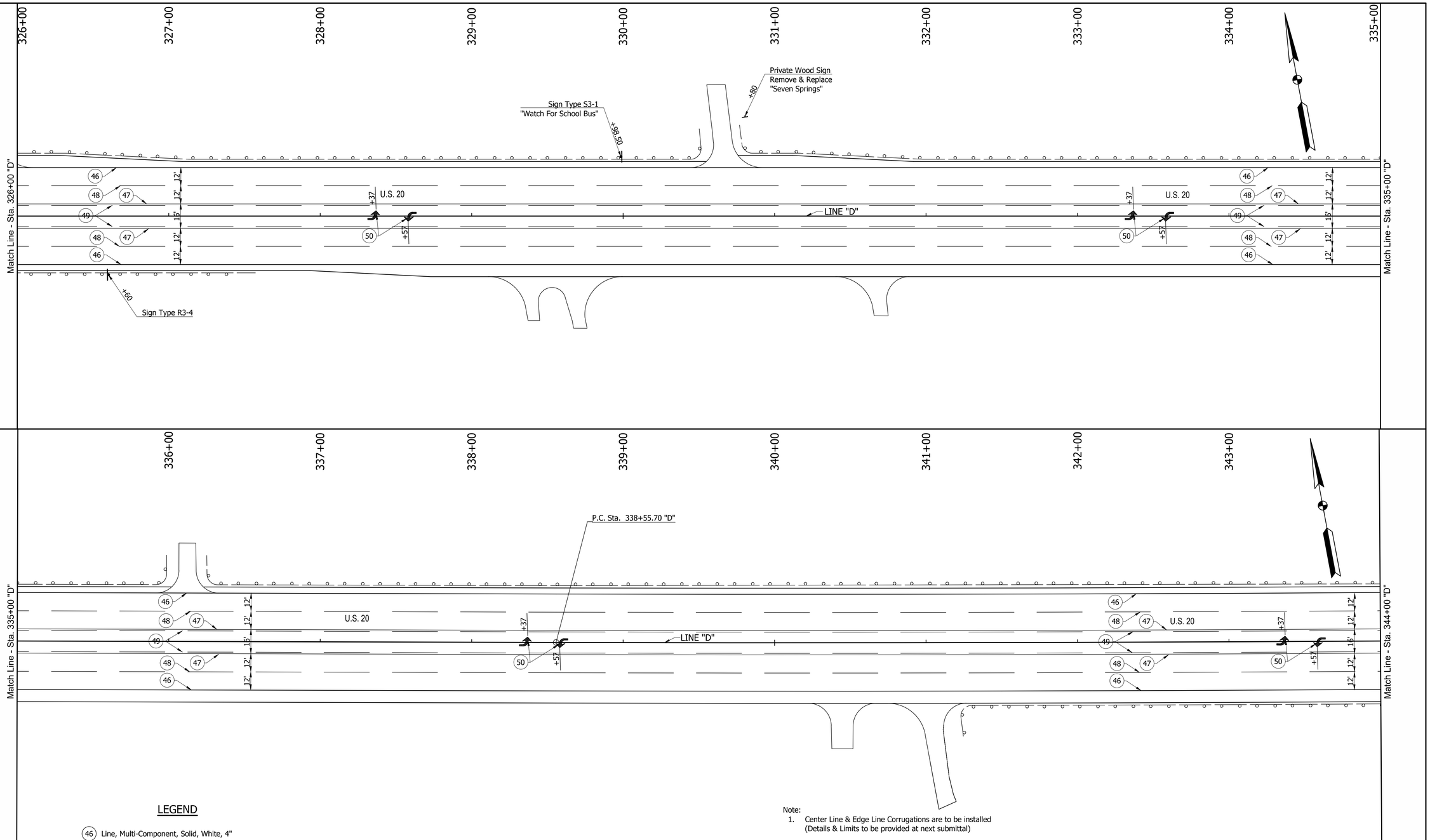
PRELIMINARY PLANS




## LEGEND

- (46) Line, Multi-Component, Solid, White, 4"
- (47) Line, Multi-Component, Solid, Yellow, 4"
- (48) Line, Multi-Component, Broken, White, 4"
- (49) Line, Multi-Component, Broken, Yellow, 4"
- (50) Pavement Message Marking, Thermoplastic, Lane Indication Arrow
- (51) Transverse Marking, Thermoplastic, Stop Line, 24"

Note:
1. Center Line & Edge Line Corrugations are to be installed (Details & Limits to be provided at next submittal)

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JCS DRAWN: JMT

CHECKED: JWG CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

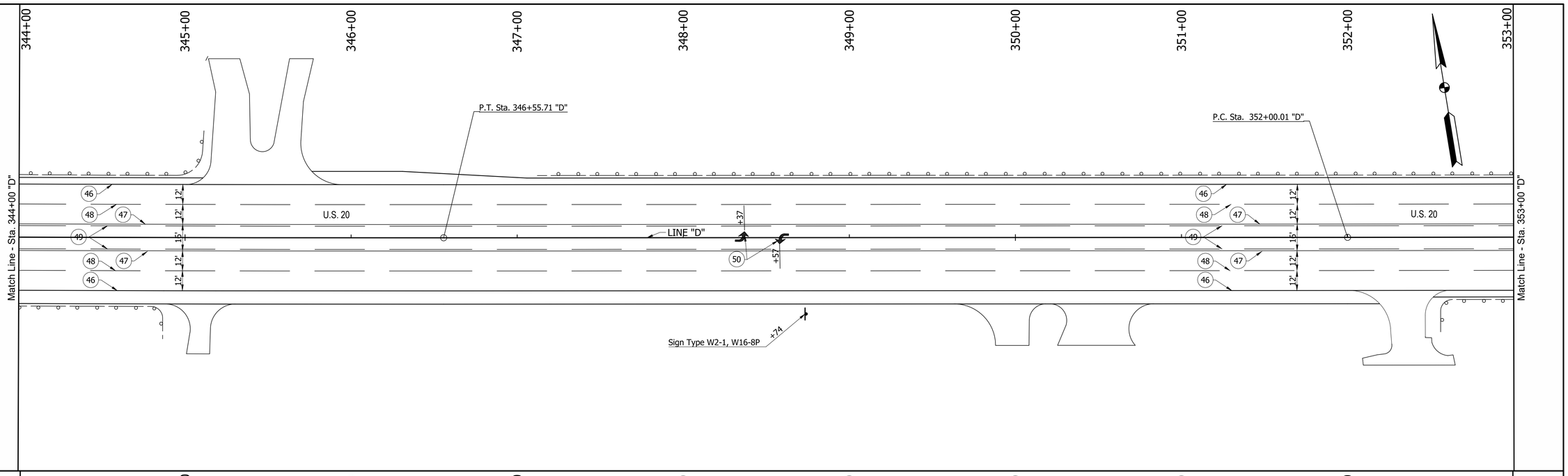
PAVEMENT MARKING & SIGNAGE

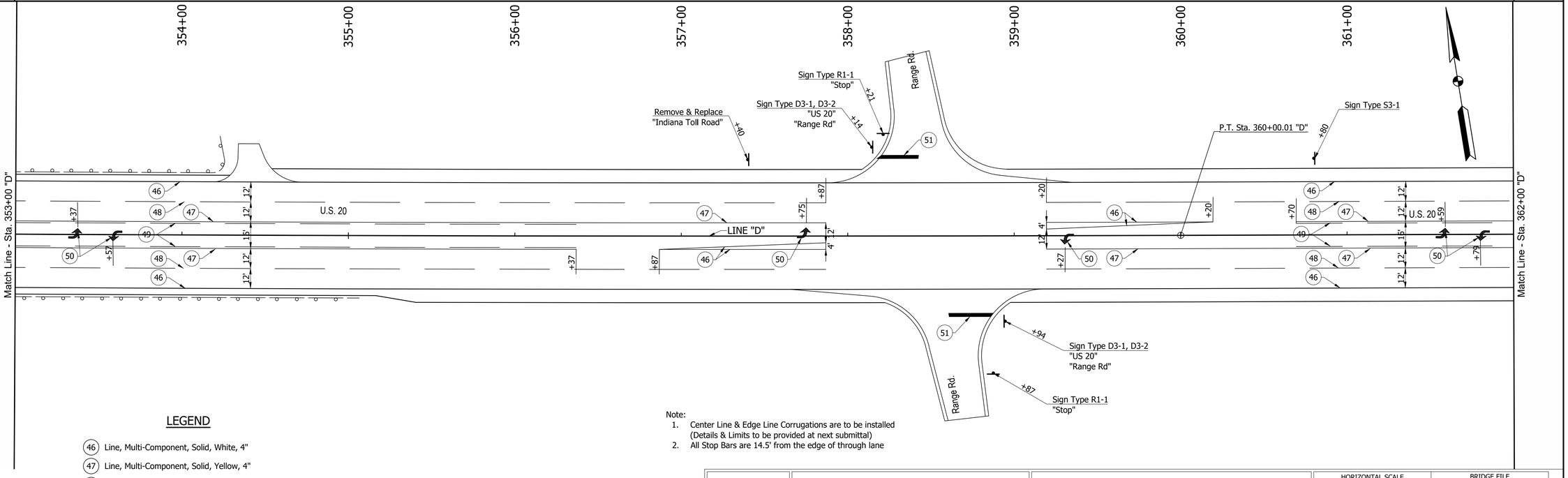
| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=30' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 134 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS

\\bfs\r2\Jobs\645300.0000\ProjDevelopment\Design\Drawings\6453 R671.dwg Dillon Mang Plot: 4/22/2022 8:41 AM Save: 4/22/2022 8:40 AM




## LEGEND

(46) Line, Multi-Component, Solid, White, 4"

(47) Line, Multi-Component, Solid, Yellow, 4"

(48) Line, Multi-Component, Broken, White, 4"

(49) Line, Multi-Component, Broken, Yellow, 4"

(50) Pavement Message Marking, Thermoplastic, Lane Indication Arrow

(51) Transverse Marking, Thermoplastic, Stop Line, 24"

Note:

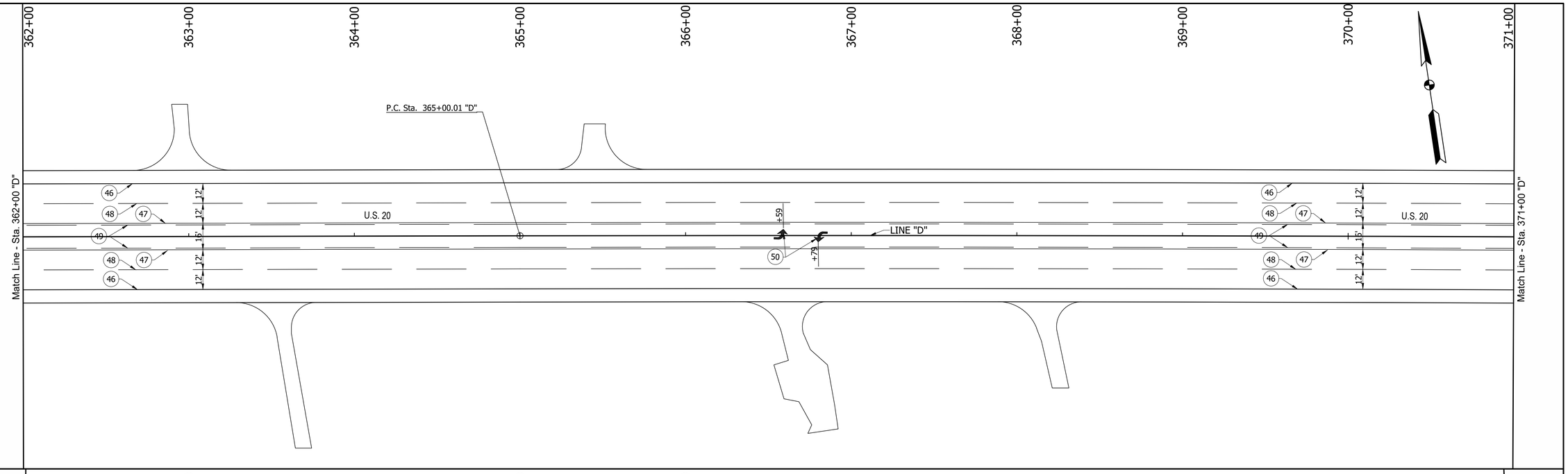
1. Center Line & Edge Line Corrugations are to be installed (Details & Limits to be provided at next submittal)
2. All Stop Bars are 14.5' from the edge of through lane

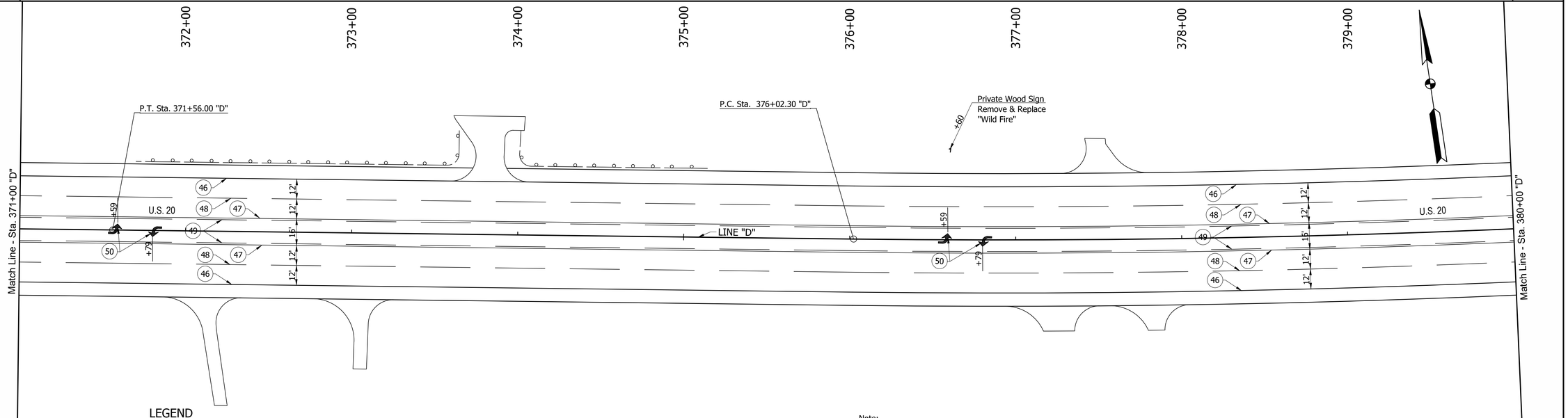
| | | | |
|---|---|---|---|
| RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE | | INDIANA DEPARTMENT OF TRANSPORTATION | HORIZONTAL SCALE: 1"=30' / VERTICAL SCALE: N/A / BRIDGE FILE: / DESIGNATION: 1702993 |
| DESIGNED: JCS | DRAWN: JMT | PAVEMENT MARKING & SIGNAGE | SURVEY BOOK: / SHEET: 135 OF 283 |
| CHECKED: JWG | CHECKED: JCS | | CONTRACT: R-41437 / PROJECT: 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS

\\bfsfs2\Jobs5\6453.0000\ProjDevelopment\Design\Drawings\6453 R671.dwg Dillon Mang Plot: 4/22/2022 8:41 AM Save: 4/22/2022 8:40 AM




## LEGEND

- (46) Line, Multi-Component, Solid, White, 4"
- (47) Line, Multi-Component, Solid, Yellow, 4"
- (48) Line, Multi-Component, Broken, White, 4"
- (49) Line, Multi-Component, Broken, Yellow, 4"
- (50) Pavement Message Marking, Thermoplastic, Lane Indication Arrow
- (51) Transverse Marking, Thermoplastic, Stop Line, 24"

Note:
1. Center Line & Edge Line Corrugations are to be installed (Details & Limits to be provided at next submittal)

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JCS DRAWN: JMT

CHECKED: JWG CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

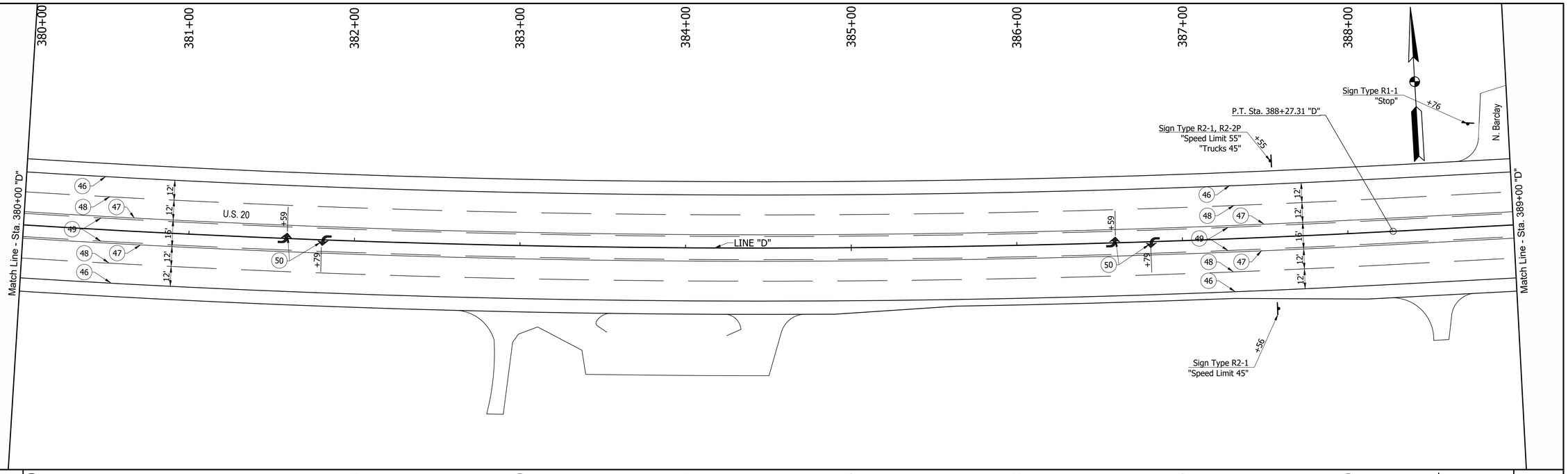
PAVEMENT MARKING & SIGNAGE

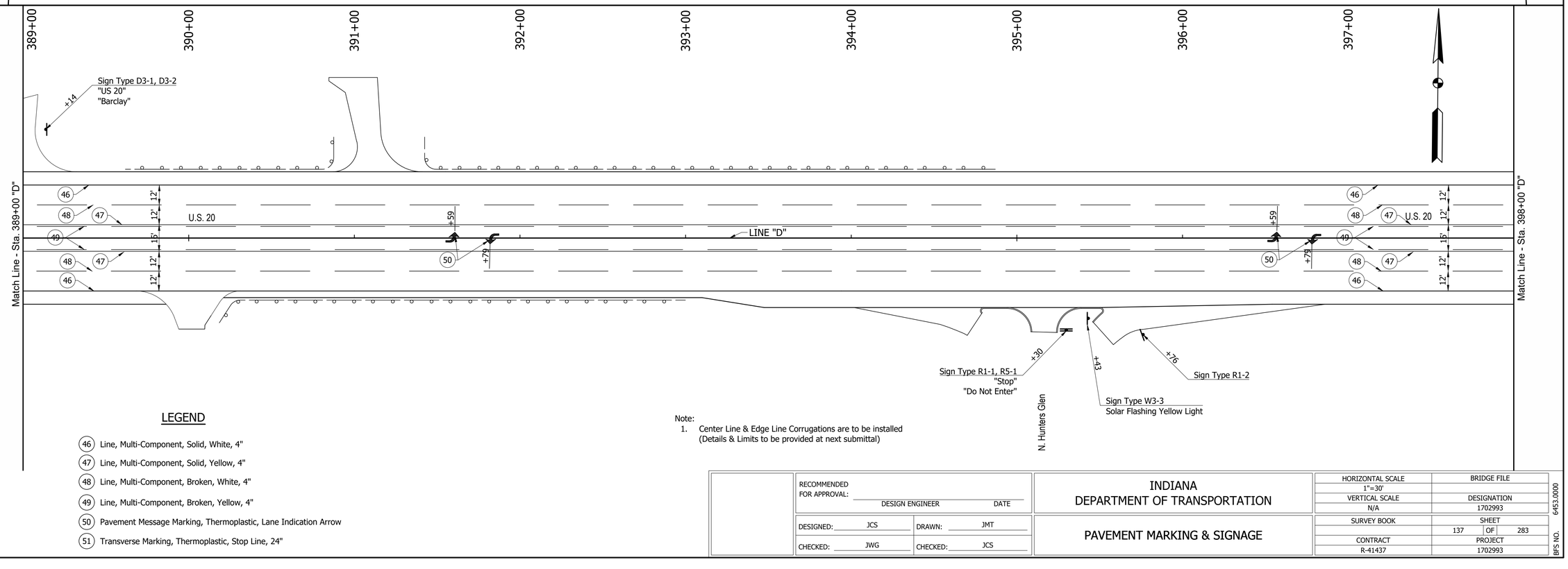
| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=30' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 136 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS

\\bfsiol2\Jobs-5\6453.0000\ProjDevelopment\Design\Drawings\6453 R671.dwg Dillon Mang Plot: 4/22/2022 8:41 AM Save: 4/22/2022 8:40 AM




## LEGEND

- (46) Line, Multi-Component, Solid, White, 4"
- (47) Line, Multi-Component, Solid, Yellow, 4"
- (48) Line, Multi-Component, Broken, White, 4"
- (49) Line, Multi-Component, Broken, Yellow, 4"
- (50) Pavement Message Marking, Thermoplastic, Lane Indication Arrow
- (51) Transverse Marking, Thermoplastic, Stop Line, 24"

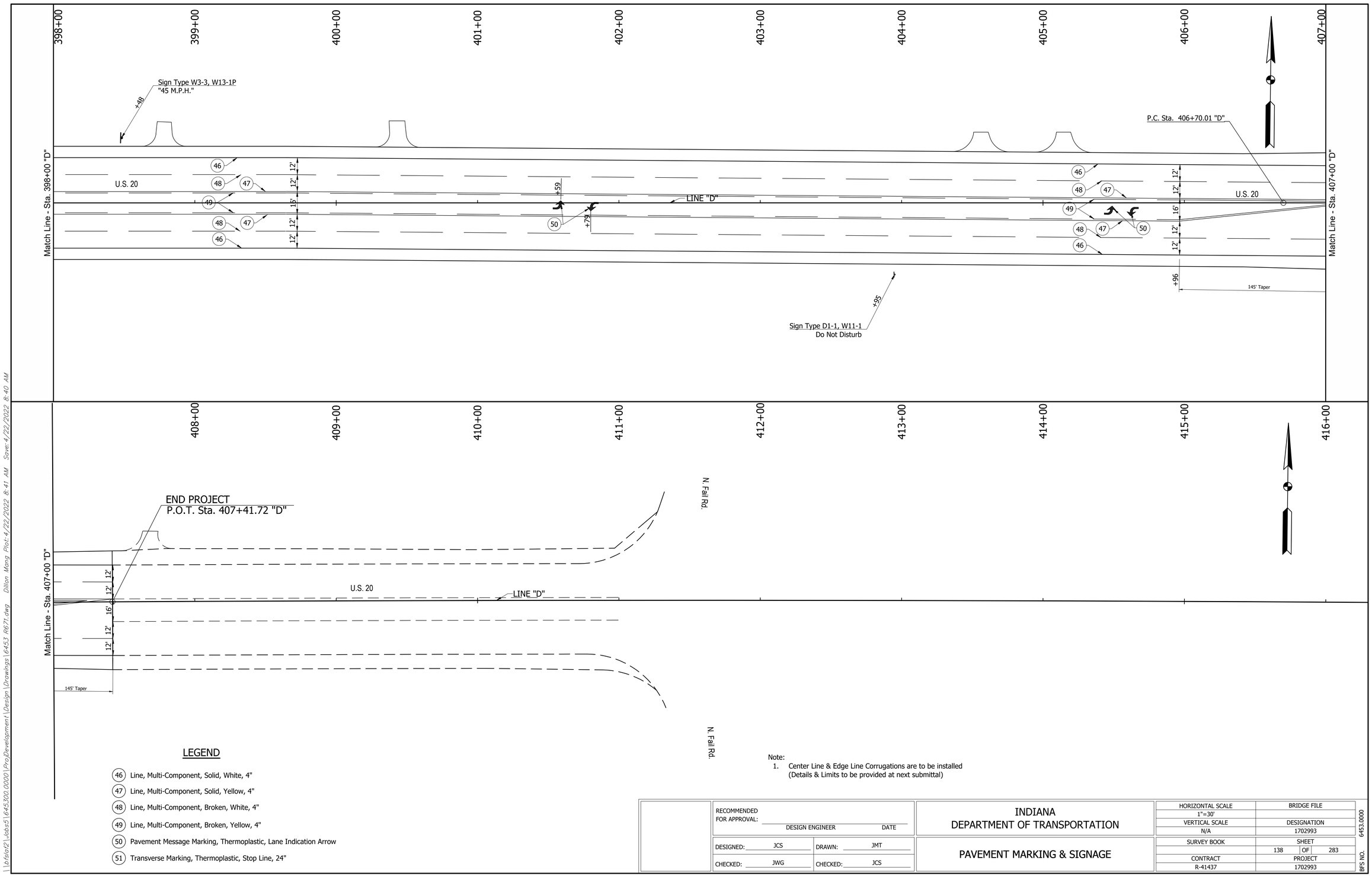
Note:
1. Center Line & Edge Line Corrugations are to be installed (Details & Limits to be provided at next submittal)

| | | |
|---|---|---|
| RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE | INDIANA DEPARTMENT OF TRANSPORTATION | HORIZONTAL SCALE 1"=30' / BRIDGE FILE |
| DESIGNED: JCS DRAWN: JMT | PAVEMENT MARKING & SIGNAGE | VERTICAL SCALE N/A / DESIGNATION 1702993 |
| CHECKED: JWG CHECKED: JCS | | SURVEY BOOK / SHEET 137 OF 283 |
| | | CONTRACT R-41437 / PROJECT 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS

\\bfs\f2\Jobs\645300.0000\ProjDevelopment\Design\Drawings\6453 R671.dwg Dillon Mang Plot: 4/22/2022 8:51 AM Save: 4/22/2022 8:51 AM




## LEGEND

- (46) Line, Multi-Component, Solid, White, 4"
- (47) Line, Multi-Component, Solid, Yellow, 4"
- (48) Line, Multi-Component, Broken, White, 4"
- (49) Line, Multi-Component, Broken, Yellow, 4"
- (50) Pavement Message Marking, Thermoplastic, Lane Indication Arrow
- (51) Transverse Marking, Thermoplastic, Stop Line, 24"

Note:
1. Center Line & Edge Line Corrugations are to be installed (Details & Limits to be provided at next submittal)

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JCS DRAWN: JMT

CHECKED: JWG CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING & SIGNAGE

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=30' | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 138 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

\\Dfs1a\2\Jobs\645300.0000\ProjDevelopment\Design\Drawings\6453 R671.dwg Dillon Mong Plot:4/22/2022 8:41 AM Save:4/22/2022 8:40 AM

# PRELIMINARY PLANS

\\bfile2\Jobs5\645300 0000\ProjDevelopment\Design\Drawings\6453 R672.dwg Dillon Mang Plot: 4/22/2022 8:41 AM Save: 4/21/2022 4:06 PM

| | | | | |
|---|---|---|---|---|
| | RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE | INDIANA DEPARTMENT OF TRANSPORTATION | HORIZONTAL SCALE: As Shown | BRIDGE FILE: |
| | | | VERTICAL SCALE: N/A | DESIGNATION: 1702993 |
| | DESIGNED: JWG DRAWN: BKM | SIGN DETAILS | SURVEY BOOK: | SHEET: 139 OF 283 |
| | CHECKED: JCS CHECKED: JWG | | CONTRACT: R-41437 | PROJECT: 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS

# PAVEMENT MARKINGS

| FROM STATION | TO STATION | THERMOPLASTIC SOLID WHITE, 4" | THERMOPLASTIC SOLID YELLOW, 4" | THERMOPLASTIC BROKEN WHITE, 4" | THERMOPLASTIC BROKEN YELLOW, 4" | THERMOPLASTIC SOLID WHITE, 6" | THERMOPLASTIC SOLID YELLOW, 8" | THERMOPLASTIC SOLID WHITE, 8" | THERMOPLASTIC SKIP WHITE, 4" (3' Line, 5' Spa.) | THERMOPLASTIC DOTTED WHITE, 12" (3' Line, 5' Spa.) | TRANSVERSE MARKINGS, YIELD TRIANGLE, WHITE | TRANSVERSE MARKINGS CROSSHATCH LINE, 12" | TRANSVERSE MARKINGS STOP BAR, 24" | TRANSVERSE MARKINGS CROSSWALK, 6" | PVMNT. MESSAGE THERMOPLASTIC LANE INDICATION ARROW | PVMNT. MESSAGE THERMOPLASTIC FISH HOOK ARROW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LFT | LFT | LFT | LFT | LFT | LFT | LFT | LFT | LFT | LFT | LFT | LFT | LFT | LFT | LFT |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

# MONUMENT TABLE

| LOCATION | TYPE |
|---|---|
| | |
| P.O.T. Sta. 255+25.28 "D" | B |
| | |
| P.O.T. Sta. 257+17.54 "D" | B |
| | |
| P.C. Sta. 258+17.20 "D" | B |
| | |
| P.T. Sta. 285+87.20 "D" | B |
| | |
| P.T. Sta. 286+18.28 "PR-D" | B |
| | |
| P.O.T. Sta. 290+05.80 "D" | B |
| | |
| P.O.T. Sta. 290+06.87 "PR-D" | B |
| | |
| P.C. Sta. 301+57.75 "PR-D" | B |
| | |
| P.C. Sta. 302+11.90 "D" | B |
| | |
| P.I. Sta. 309+13.57 "PR-D" | C |
| | |
| P.I. Sta. 309+75.15 "D" | B |
| | |
| P.O.C. Sta. 314+98.31 "PR-D" | B |
| | |
| P.O.C. Sta. 315+00.00 "D" | B |
| | |
| P.T. Sta. 316+64.16 "PR-D" | B |
| | |
| P.T. Sta. 317+34.40 "D" | B |
| | |
| P.C. Sta. 338+55.70 "D" | B |
| | |
| P.I. Sta. 342+55.21 "D" | B |
| | |
| P.T. Sta. 346+55.71 | B |
| | |
| P.C. Sta. 352+00.01 "D" | B |
| | |
| P.I. Sta. 356+00.01 "D" | B |
| | |
| P.O.C. Sta. 358+55.00 "D" | B |
| | |
| P.T. Sta. 360+00.01 "D" | B |
| | |
| P.C. Sta. 365+00.01 "D" | B |
| | |
| P.I. Sta. 368+28.01 "D" | B |
| | |
| P.T. Sta. 371+56.00 "D" | B |
| | |
| P.C. Sta. 376+02.30 "D" | B |
| | |
| P.I. Sta. 382+16.30 "D" | B |
| | |
| P.T. Sta. 388+27.31 "D" | B |
| | |
| P.O.T. Sta. 395+16.17 "D" | B |
| | |
| P.C. Sta. 406+70.01 "D" | B |
| | |
| P.O.T. Sta. 407+41.72 "D" | B |

# MAILBOX ASSEMBLIES

| LOCATION | SINGLE | DOUBLE | LEFT | RIGHT |
|---|---|---|---|---|
| Line "PR-D" | | | | |
| 268+91 | ✓ | | ✓ | |
| 277+87 | ✓ | | | ✓ |
| 316+92 | ✓ | | | ✓ |
| Line "D" | | | | |
| 319+41 | ✓ | | | ✓ |
| 324+78 | | ✓ | | ✓ |
| 330+00 | ✓ | | | ✓ |
| 330+95 | ✓ | | ✓ | |
| 340+77 | ✓ | | | ✓ |
| 344+81 | ✓ | | | ✓ |
| 350+90 | ✓ | | | ✓ |
| 352+69 | ✓ | | | ✓ |
| 354+12 | ✓ | | ✓ | |
| 363+30 | ✓ | | | ✓ |
| 365+15 | ✓ | | ✓ | |
| 366+35 | ✓ | | | ✓ |
| 368+46 | ✓ | | | ✓ |
| 371+87 | ✓ | | | ✓ |
| 372+71 | ✓ | | ✓ | |
| 372+80 | ✓ | | | ✓ |
| 378+11 | ✓ | | | ✓ |
| 390+79 | ✓ | | ✓ | |
| | | | | |
| | | | | |

# FENCE TABLE

| FROM STATION | TO STATION | LEFT | RIGHT | LENGTH | TYPE | TYPE | TYPE | GATE |
|---|---|---|---|---|---|---|---|---|
| LINE "D" | | | | LFT | | | | EACH |
| | | | | | | | | |
| 276+35 | 277+40.5 | | X | 105.5 | CLTF | | | |
| | | | | | | | | |
| 277+78 | 279+01 | | X | 123 | CLTF | | | |
| | | | | | | | | |
| 318+87 | 319+55 | X | | 68 | | FFTF | | |
| | | | | | | | | |
| 320+25 | 325+62 | X | | 537 | | FFTF | | |
| | | | | | | | | |
| 325+86 | 327+67.5 | X | | 185 | | FFTF | | |
| | | | | | | | | |
| 327+65.5 | 328+90 | X | | 131 | | | WDNF | |
| | | | | | | | | |
| 340+61 | 344+31 | X | | 379 | | FFTF | | |
| | | | | | | | | |
| 342+55 | 344+07.5 | | X | 152.5 | CLTF | | | |
| | | | | | | | | |
| 365+65 | 371+70 | X | | 605 | | FFTF | | |
| | | | | | | | | |
| 375+70 | 377+00 | | X | 130 | | | WDNF | |
| | | | | | | | | |
| | | | | | | | | |
| TOTAL | | | | | 381 | 1774 | 261 | |

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JWG DRAWN: BKM

CHECKED: JCS CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS TABLES

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| N/A | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 141 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS

\\bfsrof2\Jobs5\6453.0000\Proj\Development\Design\Drawings\6453_R911.dwg Dillon Mong Plot: 4/22/2022 2:45 AM Save: 4/21/2022 4:07 PM

# PAVED SIDE DITCH, RIPRAP DITCH, AND SODDING SUMMARY TABLE

| LOCATION | | | | | PAVED SIDE DITCH | | | | | | | | | RIPRAP DITCH | | | SODDING | | | | | | NURSERY SODDING FOR LAWNS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FROM STATION | TO STATION | LEFT | MEDIAN | RIGHT | ACTUAL LENGTH | CUT OFF WALLS (8' EQUIVAL. LENGTH EACH) | LUGS (8' EQUIVAL. LENGTH EACH) | TOTAL EQUIVALENT PAY LENGTHS TYPE | | | | | REVETMENT RIPRAP | UNIFORM RIPRAP | GEOTEXTILES | FOR PAVED SIDE DITCHES | FOR DITCHES | FOR MEDIAN | FOR SHOULDER BREAK | SODDING AT BRIDGE CONE | TOTAL SODDING | |
| | | | | | LFT | EACH | EACH | LFT | LFT | LFT | LFT | LFT | TONS | TONS | SYS | SYS | SYS | SYS | SYS | SYS | SYS | SYS |
| 2756+50 | | | | | | | | | | | | | | | | | | | | | | | |

# PAVED SIDE DITCH, RIPRAP DITCH, AND SODDING SUMMARY TABLE

| LOCATION | | | | | PAVED SIDE DITCH | | | | | | | | | RIPRAP DITCH | | | SODDING | | | | | | NURSERY SODDING FOR LAWNS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FROM STATION | TO STATION | LEFT | MEDIAN | RIGHT | ACTUAL LENGTH | CUT OFF WALLS (8' EQUIVAL. LENGTH EACH) | LUGS (8' EQUIVAL. LENGTH EACH) | TOTAL EQUIVALENT PAY LENGTHS TYPE | | | | | REVETMENT RIPRAP | UNIFORM RIPRAP | GEOTEXTILES | FOR PAVED SIDE DITCHES | FOR DITCHES | FOR MEDIAN | FOR SHOULDER BREAK | SODDING AT BRIDGE CONE | TOTAL SODDING | |
| | | | | | LFT | EACH | EACH | LFT | LFT | LFT | LFT | LFT | TONS | TONS | SYS | SYS | SYS | SYS | SYS | SYS | SYS | SYS |

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JWG DRAWN: BKM

CHECKED: JCS CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

RIPRAP-SODDING DITCH TABLE

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| N/A | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 142 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS

\\bfsiol2\Jobs-5\6453.0000\ProjDevelopment\Design\Drawings\6453_R911.dwg Dillon Mang Plot:4/22/2022 7:45 AM Save:4/21/2022 4:07 PM

# TEMPORARY EROSION CONTROL TABLE-PHASE 2

| FROM STATION | TO STATION | LOCATION | | | SILT FENCE | DIVERSION INTERCEPTOR | INTERCEPTOR DITCH | RIPRAP DITCH CHECK | CULVERT PIPE PROTECTION | SEDIMENT TRAP | SLOPE DRAIN | DROP INLET PROTECTION | CURB INLET PROTECTION | ROCK FILTER BERM | FILTER SOCK | PUMP AROUND | PROTECTIVE FENCE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LEFT | MEDIAN | RIGHT | LFT | LFT | LFT | TON | EACH | TON | LFT | EA. | EA. | LFT | LFT | EA. | LFT | |
| 259+79 | | | | X | | | | 12 | | | | | | | | | | |
| 260+84 | | | | X | | | | 12 | | | | | | | | | | |
| 261+90 | | | | X | | | | 12 | | | | | | | | | | |
| 262+50 | | | | X | | | | | | 48 | | | | | | | | |
| 262+50 | 263+00 | | | X | | | | | | | | | | 50 | | | | |
| 263+00 | 269+00 | | | X | 600 | | | | | | | | | | | | | |
| 270+05 | | | | X | | | | | 1 | | | | | | | 1 | | |
| 270+58 | | | | X | | | | 6 | | | | | | | | | | |
| 271+00 | 276+00 | | | X | | | 500 | | | | | | | | | | | |
| 273+40 | | | | X | | | | 6 | | | | | | | | | | |
| 276+22 | | | | X | | | | 6 | | | | | | | | | | |
| 280+00 | | | | X | | | | | | 73 | | | | | | | | |
| 280+84 | | | | X | | | | | | | | | | 26 | | | | |
| 281+00 | | | | X | | | | | 1 | | | | | | | 1 | | |
| 281+22 | | | | X | | | | | | | | | | 26 | | | | |
| 281+23 | | | | X | | | | | | 56 | | | | | | | | |
| 281+47 | 285+08 | | | X | | | | | | | | | | | 361 | | | |
| 281+80 | | | | X | | | | 6 | | | | | | | | | | |
| 282+00 | 285+00 | | | X | | | 300 | | | | | | | | | | | |
| 282+57 | | | | X | | | | 6 | | | | | | | | | | |
| 283+25 | | | | X | | | | 6 | | | | | | | | | | |
| 283+98 | | | | X | | | | 6 | | | | | | | | | | |
| 284+70 | | | | X | | | | 6 | | | | | | | | | | |
| 285+36 | | | | X | | | | | 1 | | | | | | | 1 | | |
| 285+50 | | | | X | | | | 6 | | | | | | | | | | |
| 285+62 | 289+88 | | | X | | | | | | | | | | | 852 | | | |
| 286+29 | | | | X | | | | 6 | | | | | | | | | | |
| 287+10 | | | | X | | | | 6 | | | | | | | | | | |
| 287+92 | | | | X | | | | 6 | | | | | | | | | | |
| 288+74 | | | | X | | | | 6 | | | | | | | | | | |
| 290+83 | | | | X | | | | | 1 | | | | | | | 1 | | |
| 291+00 | | | | X | | | | | | 53 | | | | | | | | |
| 291+25 | 293+50 | | | X | | | | | | | | | | | 450 | | | |
| 292+95 | | | | X | | | | 6 | | | | | | | | | | |
| 293+90 | | | | X | | | | 6 | | | | | | | | | | |
| 294+95 | | | | X | | | | 6 | | | | | | | | | | |
| 295+95 | | | | X | | | | 6 | | | | | | | | | | |
| 295+97 | | | | X | | | | | | | | | | 40 | | | | |
| 296+25 | 299+50 | | | X | 325 | | | | | | | | | | | | | |
| 296+25 | 305+50 | | | X | | | | | | | | | | | 1850 | | | |
| 297+00 | 304+00 | | | X | | | | | | | | | | | 700 | | | |
| 299+62 | 300+18 | | | X | | | | | | | | | | 56 | | | | |
| 300+10 | | | | X | | | | | 1 | | | | | | | 1 | | |
| 300+20 | 303+00 | | | X | | | | | | | | | | | 560 | | | |
| 300+60 | | | | X | | | | | | | 68 | | | | | | | |
| 300+60 | 303+97 | | | X | | | | | | | | | | 337 | | | | |
| 301+57 | | | | X | | | | | | | 75 | | | | | | | |
| 302+56 | | | | X | | | | | | | 86 | | | | | | | |
| 302+70 | | | | X | | | | | | | | | | 138 | | | | |
| 302+97 | 303+89 | | | X | 92 | | | | | | | | | | | | | |
| 304+00 | | | | X | | | | 6 | | | 83 | | | | | | | |
| 304+06 | | | | X | | | | 6 | | 64 | | | | | | | | |
| 304+29 | | | | X | | | | 6 | | | | | | | | | | |
| 304+52 | | | | X | | | | 6 | | | | | | | | | | |
| 304+74 | | | | X | | | | 6 | | | | | | | | | | |
| 304+97 | | | | X | | | | 6 | | | | | | | | | | |
| 305+19 | | | | X | | | | 6 | | | | | | | | | | |
| 305+40 | 314+65 | | | X | | | 925 | | | | | | | | 2118 | | | |
| 305+42 | | | | X | | | | 6 | | | | | | | | | | |
| 306+16 | | | | X | | | | 6 | | | | | | | | | | |
| 307+41 | | | | X | | | | 6 | | | | | | | | | | |
| 308+93 | | | | X | | | | 6 | | | | | | | | | | |
| 312+03 | | | | X | | | | 6 | | | | | | | | | | |
| 312+63 | | | | X | | | | 6 | | | | | | | | | | |
| 313+24 | | | | X | | | | 6 | | | | | | | | | | |
| 313+85 | | | | X | | | | 6 | | | | | | | | | | |

# TEMPORARY EROSION CONTROL TABLE-PHASE 2

| FROM STATION | TO STATION | LOCATION | | | SILT FENCE | DIVERSION INTERCEPTOR | INTERCEPTOR DITCH | RIPRAP DITCH CHECK | CULVERT PIPE PROTECTION | SEDIMENT TRAP | SLOPE DRAIN | DROP INLET PROTECTION | CURB INLET PROTECTION | ROCK FILTER BERM | FILTER SOCK | PUMP AROUND | PROTECTIVE FENCE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LEFT | MEDIAN | RIGHT | LFT | LFT | LFT | TON | EACH | TON | LFT | EA. | EA. | LFT | LFT | EA. | LFT | |
| 314+45 | | | | X | | | | 6 | | | | | | | | | | |
| 315+23 | 316+46 | | | X | 123 | | | | | | | | | | | | | |
| 316+84 | 319+00 | | | X | 216 | | | | | | | | | | | | | |
| 319+22 | 320+70 | | | X | 148 | | | | | | | | | | | | | |
| 321+50 | | | | X | | | | | | | | 1 | | | | 1 | | |
| 321+64 | 322+23 | | | X | 59 | | | | | | | | | | | | | |
| 324+17 | | | | X | | | | 6 | | | | | | | | | | |
| 325+95 | | | | X | | | | 6 | | | | | | | | | | |
| 326+21 | 327+00 | | | X | | | | | | | | | | | 79 | | | |
| 326+50 | | | | X | | | | | | 73 | | | | | | | | |
| 327+10 | | | | X | | | | | | | | | | 45 | | | | |
| 327+35 | | | | X | | | | | | | | | | | | 1 | | |
| 327+60 | | | | X | | | | | | | | | | 40 | | | | |
| 327+61 | 328+00 | | | X | | | | | | | | | | | 39 | | | |
| 328+00 | 329+25 | | | X | 125 | | | | | | | | | | | | | |
| 330+00 | 336+50 | | | X | 650 | | | | | | | | | | | | | |
| 336+50 | 337+50 | | | X | | | | | | | | | | 100 | | | | |
| 337+80 | 340+35 | | | X | | | | | | | | | | 255 | | | | |
| 340+50 | 341+00 | | | X | 50 | | | | | | | | | | | | | |
| 341+75 | | | | X | | | | | | 73 | | | | | | | | |
| 342+72 | | | | X | | | | 6 | | | | | | | | | | |
| 344+65 | | | | X | | | | 6 | | | | | | | | | | |
| 346+50 | | X | | | | | | | | | | | 1 | | | | | |
| 346+58 | | | | X | | | | 6 | | | | | | | | | | |
| 346+60 | 349+60 | | | X | | | | | | | | | | | 400 | | | |
| 347+55 | | | | X | | | | 6 | | | | | | | | | | |
| 348+21 | | | | X | | | | 6 | | | | | | | | | | |
| 348+87 | | | | X | | | | 6 | | | | | | | | | | |
| 349+48 | | | | X | | | | 6 | | | | | | | | | | |
| 350+80 | 352+18 | | | X | | | | | | | | | | | 138 | | | |
| 351+28 | | | | X | | | | 6 | | | | | | | | | | |
| 351+88 | | | | X | | | | 6 | | | | | | | | | | |
| 352+60 | | | | X | | | | 6 | | | | | | | | | | |
| 352+75 | 358+30 | | | X | | | | | | | | | | | 915 | | | |
| 353+08 | | | | X | | | | 6 | | | | | | | | | | |
| 353+68 | | | | X | | | | 6 | | | | | | | | | | |
| 354+28 | | | | X | | | | 6 | | | | | | | | | | |
| 354+88 | | | | X | | | | 6 | | | | | | | | | | |
| 355+48 | | | | X | | | | 6 | | | | | | | | | | |
| 356+08 | | | | X | | | | 6 | | | | | | | | | | |
| 356+68 | | | | X | | | | 6 | | | | | | | | | | |
| 359+00 | 362+83 | | | X | | | 383 | | | | | | | | | | | |
| 359+25 | | | | X | | | | 6 | | | | | | | | | | |
| 359+40 | | | | X | | | | | 1 | | | | | | | 1 | | |
| 359+75 | | | | X | | | | | | 73 | | | | | | | | |
| 363+25 | | | | | | | | 6 | | | | | | | | | | |
| 363+87 | 366+37 | | | X | | | 250 | | | | | | | | | | | |
| 365+00 | | | | X | | | | 6 | | | | | | | | | | |
| 366+91 | 368+12 | | | X | | | 121 | | | | | | | | | | | |
| 368+74 | | | | X | | | | 6 | | | | | | | | | | |
| 370+41 | | | | X | | | | 6 | | | | | | | | | | |
| 371+78 | | | | X | | | | 6 | | | | | | | | | | |
| 372+76 | | | | X | | | | 6 | | | | | | | | | | |
| 373+95 | | | | X | | | | 6 | | | | | | | | | | |
| 374+00 | 377+00 | | | X | | | | | | | | | | 300 | | | | |
| 377+40 | 382+66 | | | X | 526 | | | | | | | | | | | | | |
| 384+68 | 388+25 | | | X | | | | | | | | | | 357 | | | | |
| 389+00 | 391+05 | | | X | 205 | | | | | | | | | | | | | |
| 391+05 | 394+46 | | | X | | | | | | | | | | 341 | | | | |
| 392+37 | | | | X | | | | | | | | | | | | 1 | | |
| 396+00 | 407+41 | | | X | 1141 | | | | | | | | | | | | | |
| **SUB-TOTAL PHASE 2** | | | | | 4260 | | 2479 | 396 | 7 | 513 | 312 | 1 | 1 | 2111 | 8462 | 9 | | |

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JWG DRAWN: BKM

CHECKED: JCS CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

TEMPORARY EROSION CONTROL TABLES

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| N/A | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 143 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

Save: 4/21/2022 4:07 PM
\\bfsla02\Jobs5\6453.0000\ProjDevelopment\Design\Drawings\6453 R921.dwg Dillon Mong Plot: 4/22/2022 7:45 AM

PRELIMINARY PLANS

# TEMPORARY EROSION CONTROL TABLE-PHASE 3

| FROM STATION | TO STATION | LOCATION | | | SILT FENCE | DIVERSION INTERCEPTOR | INTERCEPTOR DITCH | RIPRAP DITCH CHECK | CULVERT PIPE PROTECTION | SEDIMENT TRAP | SLOPE DRAIN | DROP INLET PROTECTION | CURB INLET PROTECTION | ROCK FILTER BERM | FILTER SOCK | PUMP AROUND | PROTECTIVE FENCE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LEFT | MEDIAN | RIGHT | LFT | LFT | LFT | TON | EACH | TON | LFT | EA. | EA. | LFT | LFT | EA. | LFT | |
| 259+50 | 261+27 | X | | | 177 | | | | | | | | | | | | | |
| 261+27 | 265+15 | X | | | | | | | | | | | | 388 | | | | |
| 265+15 | 275+88 | | | | 1073 | | | | | | | | | | | | | |
| 270+05 | | X | | | | | | | 1 | | | | | | | 1 | | |
| 281+00 | | X | | | | | | | 1 | | | | | | | 1 | | |
| 284+50 | 289+57 | X | | | 507 | | | | | | | | | | | | | |
| 285+36 | | X | | | | | | | 1 | | | | | | | 1 | | |
| 290+42 | 292+31 | X | | | 189 | | | | | | | | | | | | | |
| 290+83 | | X | | | | | | | 1 | | | | | | | 1 | | |
| 294+73 | | X | | | | | | 6 | | | | | | | | | | |
| 295+28 | 314+85 | | | | | | | | | | | | | | | | 2318 | |
| 295+95 | 296+95 | X | | | | | | | | | | | | | 200 | | | |
| 296+97 | | X | | | | | | | | | | | | 50 | | | | |
| 297+00 | | X | | | | | | | | 73 | | | | | | | | |
| 297+00 | 307+37 | X | | | 1485 | | | | | | | | | | | | | |
| 300+10 | | X | | | | | | | 1 | | | | | | | 1 | | |
| 301+24 | | X | | | | | | | | | | | 1 | | | | | |
| 301+53 | | X | | | | | | | | | | | 1 | | | | | |
| 302+03 | | X | | | | | | | | | | | 1 | | | | | |
| 302+87 | | X | | | | | | | | | | | 1 | | | | | |
| 303+52 | | X | | | | | | | | | | | 1 | | | | | |
| 307+37 | 309+00 | X | | | | | | | | | | | | 163 | 117 | | | |
| 308+11 | | X | | | | | | 6 | | | | | | | | | | |
| 310+13 | | X | | | | | | 6 | | | | | | | | | | |
| 311+95 | | X | | | | | | 6 | | | | | | | | | | |
| 312+78 | | X | | | | | | 6 | | | | | | | | | | |
| 313+48 | | X | | | | | | 6 | | | | | | | | | | |
| 313+96 | | X | | | | | | 6 | | | | | | | | | | |
| 314+50 | | X | | | | | | 6 | | | | | | | | | | |
| 315+37 | 317+32 | X | | | 195 | | | | | | | | | | | | | |
| 317+98 | | X | | | | | | 6 | | | | | | | | | | |
| 318+00 | 320+00 | X | | | | | | | | | | | | | 232 | | | |
| 318+46 | | X | | | | | | 6 | | | | | | | | | | |
| 318+96 | | X | | | | | | 6 | | | | | | | | | | |
| 319+46 | | X | | | | | | 6 | | | | | | | | | | |
| 319+96 | | X | | | | | | 6 | | | | | | | | | | |
| 320+50 | | X | | | | | | | | 48 | | | | | | | | |
| 320+50 | 322+25 | X | | | | | | | | | | | | 175 | | | | |
| 321+50 | | X | | | | | | | 1 | | | | | | | 1 | | |
| | | | | | | | | | | | | | | | | | | |
| 323+00 | 325+25 | X | | | | | | | | | | | | | 322 | | | |
| 324+33 | | X | | | | | | 6 | | | | | | | | | | |
| 325+25 | | X | | | | | | | | 45 | | | | | | | | |
| 326+00 | 327+20 | X | | | | | | | | | | | | 130 | | | | |
| 326+00 | 330+40 | X | | | | | | | | | | | | | 440 | | | |
| 327+45 | | X | | | | | | 6 | | | | | | | | | | |
| 327+70 | | X | | | | | | 6 | | | | | | | | | | |
| 327+95 | | X | | | | | | 6 | | | | | | | | | | |
| 328+20 | | X | | | | | | 6 | | | | | | | | | | |
| 328+45 | | X | | | | | | 6 | | | | | | | | | | |
| 331+03 | | X | | | | | | 6 | | | | | | | | | | |
| 334+05 | | X | | | | | | 6 | | | | | | | | | | |
| 337+57 | | X | | | | | | | 1 | | | | | | | 1 | | |
| 337+78 | | X | | | | | | 6 | | | | | | | | | | |
| 338+62 | | X | | | | | | 6 | | | | | | | | | | |
| 339+47 | | X | | | | | | 6 | | | | | | | | | | |
| 340+31 | | X | | | | | | 6 | | | | | | | | | | |
| 340+75 | 344+00 | X | | | | | 301 | | | | | | | | 877 | | | |
| 341+34 | | X | | | | | | 6 | | | | | | | | | | |
| 342+36 | | X | | | | | | 6 | | | | | | | | | | |
| 343+39 | | X | | | | | | 6 | | | | | | | | | | |
| 344+41 | | X | | | | | | 6 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

# TEMPORARY EROSION CONTROL TABLE-PHASE 3

| FROM STATION | TO STATION | LOCATION | | | SILT FENCE | DIVERSION INTERCEPTOR | INTERCEPTOR DITCH | RIPRAP DITCH CHECK | CULVERT PIPE PROTECTION | SEDIMENT TRAP | SLOPE DRAIN | DROP INLET PROTECTION | CURB INLET PROTECTION | ROCK FILTER BERM | FILTER SOCK | PUMP AROUND | PROTECTIVE FENCE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LEFT | MEDIAN | RIGHT | LFT | LFT | LFT | TON | EACH | TON | LFT | EA. | EA. | LFT | LFT | EA. | LFT | |
| 345+82 | 35350 | X | | | | | | | | | | | | 768 | | | | |
| 346+50 | | X | | | | | | | 1 | | | | | | | 1 | | |
| 353+55 | | X | | | | | | 6 | | | | | | | | | | |
| 354+05 | | X | | | | | | 6 | | | | | | | | | | |
| 354+54 | | X | | | | | | 6 | | | | | | | | | | |
| 355+00 | 358+20 | X | | | 320 | | | | | | | | | | | | | |
| 358+83 | 362+85 | X | | | 402 | | | | | | | | | | | | | |
| 359+40 | | X | | | | | | | 1 | | | | | | | 1 | | |
| 363+00 | 365+33 | X | | | 233 | | | | | | | | | | | | | |
| 365+60 | 371+00 | X | | | 540 | | | | | | | | | | | | | |
| 371+61 | | X | | | | | | 6 | | | | | | | | | | |
| 372+32 | | X | | | | | | 6 | | | | | | | | | | |
| 373+03 | | X | | | | | | 6 | | | | | | | | | | |
| 374+45 | | X | | | | | | 6 | | | | | | | | | | |
| 374+45 | 375+05 | X | | | | | | | | | | | | 150 | | | | |
| 375+05 | | X | | | | | | 6 | | | | | | | | | | |
| 377+50 | 388+58 | X | | | | | | | | | | | | 1108 | | | | |
| 378+45 | | X | | | | | | 6 | | | | | | | | | | |
| 392+00 | | X | | | | | | | | 39 | | | | | | | | |
| 392+75 | | X | | | | | | | | 73 | | | | | | | | |
| 396+06 | | X | | | | | | 6 | | | | | | | | | | |
| 397+34 | | X | | | | | | 6 | | | | | | | | | | |
| 399+00 | | X | | | | | | 6 | | | | | | | | | | |
| 399+82 | | X | | | | | | 6 | | | | | | | | | | |
| 401+02 | | X | | | | | | 6 | | | | | | | | | | |
| 401+79 | | X | | | | | | 6 | | | | | | | | | | |
| 402+55 | | X | | | | | | 6 | | | | | | | | | | |
| 403+30 | | X | | | | | | 6 | | | | | | | | | | |
| 404+06 | | X | | | | | | 6 | | | | | | | | | | |
| 405+25 | 407+42 | X | | | 217 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| **SUB-TOTAL PHASE 3** | | | | | **5338** | | **301** | **282** | **9** | **278** | **0** | **0** | **5** | **2932** | **2188** | **9** | **2318** | |
| | | | | | | | | | | | | | | | | | | |
| **SUB-TOTAL PHASE 2** | | | | | **4260** | | **2479** | **396** | **7** | **513** | **312** | **1** | **1** | **2111** | **8462** | **9** | **0** | |
| | | | | | | | | | | | | | | | | | | |
| **TOTAL** | | | | | **9598** | | **2780** | **678** | **16** | **791** | **312** | **1** | **6** | **5043** | **10650** | **18** | **2318** | |

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JWG DRAWN: BKM

CHECKED: JCS CHECKED: JWG

INDIANA DEPARTMENT OF TRANSPORTATION

EROSION CONTROL TABLES

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| 1"=50' | |
| VERTICAL SCALE | DESIGNATION |
| NA | 1702993 |
| SURVEY BOOK | SHEET |
| | 144 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS

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# SUMMARY OF QUANTITIES AND APPROACH TABLE

| LOCATION (STATION) | DESCRIPTION (APPROACH TYPE OR CLASS) | WIDTH | LENGTH | RADII | SURFACE BEYOND R/W LINE | | | GRADE | | EXCAVATION | | HMA FOR APPROACHES/PATH | | | | | QC/QA HMA MATERIAL FOR MAINLINE | | | | | | HMA FOR TEMP. PAVEMENT | | | | SUBGRADE TREATMENT TYPE IB | SUBGRADE TREATMENT TYPE II | SUBGRADE TREATMENT TYPE III | ASPHALT MATERIAL FOR | | COMPACTED AGGREGATE FOR BASE NO. 53 | | D-1 CONTRACTION JOINTS | PCCP, 7.5 IN | PCCP FOR APPROACHES 9 IN. | 2'-7" COMBINED CONCRETE CURB & GUTTER | 2'-0" COMBINED CONCRETE CURB & GUTTER | 2'-0" INVERTED COMBINED CONCRETE CURB & GUTTER | 2'-0" CONCRETE ROLL CURB & GUTTER | CONCRETE CURB | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | COMPACTED AGGREGATE BASE | HMA | CONCRETE | | | | | HMA TYPE "A" FOR APPROACH | | HMA TYPE "A" SURFACE | HMA TYPE "A" INTERMEDIATE | HMA FOR ISLANDS TYPE "A" | 2, 70, SURFACE 12.5mm | 2, 70, INTERMEDIATE 19.0mm | 3, 76, BASE 25.0mm | 3, 76, BASE 25.0mm | 5, 76, INTERMEDIATE C19.0mm | | HMA TYPE "B" | HMA TYPE "B" | HMA TYPE "A" | HMA TYPE "A" | | | | PRIME COAT | TACK COAT | DEPTH | | | | | | | | | |
| | | | | | | | | | | | | LBS. PER SYD. | | | | | LBS. PER SYD. | | | | | | LBS. PER SYD. | | | | | | | | | 6 IN. | | | | | | | | |
| | | FEET | FEET | FEET | | | | 1 % | 2 % | CUT CYS. | FILL CYS. | 110 TONS | 330 TONS | 220 TONS | 275 TONS | 110 TONS | 220 TONS | 275 TONS | 275 TONS | 330 TONS | 220 TONS | 110 TONS | 440 TONS | 440 TONS | 330 TONS | 220 TONS | SYS. | SYS. | SYS. | TONS | TONS | SYS. | SYS. | LFT | SYS | SYS. | LFT | LFT | LFT | LFT | LFT | |
| Line "D" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 256+42 Rt. | MOD. CL. IV | 34.0 | | 20, 20 | | | | -1.00 | 10.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LINE "PR-D" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 269+18 Lt. | MOD. CL. II | 8.0 | 39.5 | 25, 15 | | | | -4.49 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Modified Radius |
| 269+28 Rt. | MOD. CL. II | 16.0 | 20.5 | 25, 15 | | | | 0.32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Modified Width |
| 276+10 Lt. | CL. V | 15.0 | 42.0 | 25, 25 | | | | -4.00 | -10.59 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 277+60 Rt. | MOD. CL. II | 10.0 | 38.0 | 25, 15 | | | | -4.00 | -5.62 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Modified Width |
| 279+07 Lt. | MOD. CL. IV | 18.0 | 29.0 | 20, 20 | | | | -4.00 | -8.79 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Modified Radius |
| 280+52 Rt. | CL. II | 16.0 | 28.5 | 25, 15 | | X | | -4.00 | -10.77 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 284+34 Lt. | CL. V | 15.0 | 41.5 | 25, 25 | | | | -4.00 | -15.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 290+07 Lt. | M.P.R.A. | 21.0 | 68.0 | 40, 40 | | | | -4.60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 290+07 Rt. | M.P.R.A. | 21.0 | 74.5 | 40, 40 | | | | -2.00 | 9.80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 292+44 Lt. | CL. IV | 27.0 | 28.0 | 20, 20 | | | | -0.36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 295+12 Lt. | CL. IV | 19.0 | 45.5 | 20, 20 | | | | -4.00 | 5.99 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 314+98 Lt. | M.P.R.A. | 24.0 | 80.0 | 40, 40 | | | | -2.00 | -6.98 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 314+98 Rt. | M.P.R.A. | 24.0 | 80.0 | 40, 40 | | | | -2.22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 316+64 Rt. | MOD.CL. II | 10.0 | 34.0 | 25, 15 | | X | | -4.00 | -7.46 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Modified Width |
| LINE "D" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 319+14 Rt. | MOD. CL. II | 11.0 | 20.0 | 25, 15 | | | | -3.84 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Modified Width |
| 320+91 Rt. | MOD. CL. II | 10.0 | 24.0 | 25, 15 | | X | | -4.00 | -9.70 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Modified Width |
| 322+28 Rt. | MOD. CL. II | 9.0 | 20.0 | 25, 15 | | | | -2.76 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Modified Width |
| 325+05 Rt. | MOD. CL. II | 14.0 | 24.0 | 25, 3 | | | | 1.03 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Modified Radius |
| 325+19 Rt. | MOD. CL. II | 14.0 | 24.0 | 3,15 | | | | 1.03 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Modified Radius |
| 325+77 Lt. | CL. II | 15.5 | 26.0 | 25, 15 | | | | 4.00 | 12.27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 329+40 Rt. | MOD.CL. II | 8.0 | 34.0 | 25, 9 | X | | | -4.00 | -11.90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Modified Width, Radius |
| 329+70 Rt. | MOD. CL. II | 9.0 | 34.0 | 9, 25 | X | | | -4.00 | -12.47 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Modified Width, Radius |
| 330+65 Lt. | MOD. CL. II | 12.0 | 51.0 | 20, 15 | | X | | -4.00 | 10.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Modfiied Radius |
| 331+69 Rt. | MOD. CL. II | 10.0 | 26.0 | 25, 15 | | X | | -4.00 | -14.83 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Modified Width |
| 336+14 Lt. | MOD. CL. V | 10.0 | 29.0 | 15, 15 | | | | -4.00 | 2.67 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Modified Width, Radius |
| 340+45 Rt. | MOD. CL. II | 14.0 | 30.0 | 15, 15 | | | | -0.60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Modified Radius |

| | | | |
|---|---|---|---|
| | RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE | INDIANA DEPARTMENT OF TRANSPORTATION | HORIZONTAL SCALE: NA; BRIDGE FILE: |
| | DESIGNED: JCS; DRAWN: JMT | APPROACH TABLE | VERTICAL SCALE: N/A; DESIGNATION: 1702993 |
| | CHECKED: JWG; CHECKED: JCS | | SURVEY BOOK: ; SHEET: 145 OF 283 |
| | | | CONTRACT: R-41437; PROJECT: 1702993 |

BFS NO. 6453.0000

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PRELIMINARY PLANS

# SUMMARY OF QUANTITIES AND APPROACH TABLE

| LOCATION (STATION) | DESCRIPTION (APPROACH TYPE OR CLASS) | WIDTH | LENGTH | RADII | SURFACE BEYOND R/W LINE | | | GRADE | | EXCAVATION | | HMA FOR APPROACHES/PATH | | | | | QC/QA HMA MATERIAL FOR MAINLINE | | | | | | HMA FOR TEMP. PAVEMENT | | | | SUBGRADE TREATMENT TYPE IB | SUBGRADE TREATMENT TYPE II | SUBGRADE TREATMENT TYPE III | ASPHALT MATERIAL FOR | | COMPACTED AGGREGATE FOR BASE NO. 53 | | D-1 CONTRACTION JOINTS | PCCP, 7.5 IN | PCCP FOR APPROACHES 9 IN. | 2'-7" COMBINED CONCRETE CURB & GUTTER | 2'-0" COMBINED CONCRETE CURB & GUTTER | 2'-0" INVERTED COMBINED CONCRETE CURB & GUTTER | 2'-0" CONCRETE ROLL CURB & GUTTER | CONCRETE CURB | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | COMPACTED AGGREGATE BASE | HMA | CONCRETE | | | | | HMA TYPE "A" FOR APPROACH | | HMA TYPE "A" SURFACE | HMA TYPE "A" INTERMEDIATE | HMA FOR ISLANDS TYPE "A" | 2, 70, SURFACE 12.5mm | 2, 70, INTERMEDIATE 19.0mm | 3, 76, BASE 25.0mm | 3, 76, BASE 25.0mm | 5, 76, INTERMEDIATE C19.0mm | | HMA TYPE "B" | HMA TYPE "B" | HMA TYPE "A" | HMA TYPE "A" | | | | PRIME COAT | TACK COAT | DEPTH | | | | | | | | | |
| | | | | | | | | | | | | LBS. PER SYD. | | | | | LBS. PER SYD. | | | | | | LBS. PER SYD. | | | | | | | | | 6 IN. | | | | | | | | |
| | | FEET | FEET | FEET | | | | 1 % | 2 % | CUT CYS. | FILL CYS. | 110 TONS | 330 TONS | 220 TONS | 275 TONS | 110 TONS | 220 TONS | 275 TONS | 275 TONS | 330 TONS | 220 TONS | 110 TONS | 440 TONS | 440 TONS | 330 TONS | 220 TONS | SYS. | SYS. | SYS. | TONS | TONS | SYS. | SYS. | LFT | SYS | SYS. | LFT | LFT | LFT | LFT | LFT | |
| Line "D" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 341+05 Rt. | CL. II | 12.0 | 68.5 | 25, 15 | | X | | -4.00 | 10.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 345+09 Rt. | CL. II | 14.0 | 36.0 | 25, 15 | | | | -0.73 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 345+30 Lt. | MOD. CL. II | 19.0 | 72.0 | 7.25,15 | X | | | -1.00 | 13.32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Modified Radius |
| 345+62.5 Lt. | MOD. CL. II | 14.5 | 72.5 | 25,7.25 | X | | | -4.00 | 10.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Modified Radius |
| 349+98 Rt. | MOD. CL. II | 20.0 | 25.0 | 25, 10 | | | | -4.00 | -7.62 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Modified Radius |
| 350+50 Rt. | MOD. CL. II | 37.0 | 30.0 | 10, 15 | | | | -4.00 | -9.87 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Modified Radius |
| 352+36.5 Rt. | MOD.CL. II | 25.0 | 37.0 | 25, 15 | | X | | -4.00 | 6.72 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Modified Width |
| 354+40 Lt. | CL. II | 12.5 | 15.0 | 25, 15 | | | | -2.22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 358+55 Lt. | M.P.R.A. | 23.0 | 76.0 | 40, 40 | | | | -7.02 | -8.68 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 358+55 Rt. | M.P.R.A. | 23.0 | 78.0 | 40, 40 | | | | 3.38 | 6.46 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 362+97 Lt. | MOD. CL. V | 9.0 | 40.0 | 25, 25 | X | | | -4.00 | -14.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Modified Width |
| 363+57 Rt. | MOD. CL. II | 10.0 | 89.0 | 25, 15 | X | | | -2.00 | 9.86 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Modified Width |
| 365+45 Lt. | CL. II | 13.0 | 27.5 | 25, 15 | X | | | -4.00 | -10.57 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 366+64 Rt. | CL. II | 13.0 | 79.0 | 25, 15 | X | | | -4.00 | 10.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 368+18 Rt. | CL. II | 12.0 | 52.0 | 25, 15 | | X | | -3.03 | 9.91 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 372+15 Rt. | MOD. CL. II | 10.0 | 65.0 | 25, 15 | X | | | -4.00 | 10.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Modified Width |
| 373+06, Rt. | MOD. CL. II | 9.0 | 42.0 | 25, 15 | X | | | -4.00 | 7.23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Modified Width |
| 373+82.5 Lt. | MOD. CL. II | 29.0 | 32.0 | 15, 15 | | X | | -4.00 | 3.51 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Modified Width |
| 377+27 Rt. | CL. II | 12.0 | 15.0 | 25, 15 | | | | -1.26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 377+50.5 Lt. | CL. II | 12.0 | 21.0 | 25, 15 | X | | | 2.09 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 377+85 Rt. | MOD. CL. II | 10.0 | 15.0 | 25, 15 | | | | -1.26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Modified Width |
| 382+92 Rt. | MOD. CL. II | 11.0 | 62.0 | 25 | X | | | -4.00 | -8.32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Modified Width, Radius |
| 383+39 Rt. | MOD. CL. II | 14.0 | 41.0 | 10 | X | | | -4.00 | -8.22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Modified Radius |
| 384+46 Rt. | MOD. CL. II | 25.0 | 41.0 | 10, 15 | X | | | -4.00 | -9.12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Modified Width, Radius |
| 388+54 Rt. | MOD. CL. II | 10.0 | 54.5 | 25, 15 | | X | | -4.00 | -6.49 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Modified Width |
| 388+94 Lt. | M.P.R.A. | 23.5 | 44.0 | 25, 25 | | | | -1.04 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 390+01.5 Rt. | CL. V | 17.0 | 15.0 | 25, 15 | | | | -6.12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|---|---|---|---|
| | RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE | INDIANA DEPARTMENT OF TRANSPORTATION | HORIZONTAL SCALE: NA; BRIDGE FILE: |
| | DESIGNED: JCS; DRAWN: JMT; CHECKED: JWG; CHECKED: JCS | APPROACH TABLE | VERTICAL SCALE: N/A; DESIGNATION: 1702993; SURVEY BOOK: ; SHEET: 146 OF 283; CONTRACT: R-41437; PROJECT: 1702993; BFS NO. 6453.0000 |

PRELIMINARY PLANS

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# SUMMARY OF QUANTITIES AND APPROACH TABLE

| LOCATION (STATION) | DESCRIPTION (APPROACH TYPE OR CLASS) | WIDTH | LENGTH | RADII | SURFACE BEYOND R/W LINE | | | GRADE | | EXCAVATION | | HMA FOR APPROACHES/PATH | | | | | QC/QA HMA MATERIAL FOR MAINLINE | | | | | | HMA FOR TEMP. PAVEMENT | | | | SUBGRADE TREATMENT TYPE 1B | SUBGRADE TREATMENT TYPE II | SUBGRADE TREATMENT TYPE III | ASPHALT MATERIAL FOR | | COMPACTED AGGREGATE FOR BASE NO. 53 | | D-1 CONTRACTION JOINTS | PCCP, 7.5 IN | PCCP FOR APPROACHES 9 IN. | 2'-7" COMBINED CONCRETE CURB & GUTTER | 2'-0" COMBINED CONCRETE CURB & GUTTER | 2'-0" INVERTED COMBINED CONCRETE CURB & GUTTER | 2'-0" CONCRETE ROLL CURB & GUTTER | CONCRETE CURB | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | COMPACTED AGGREGATE BASE | HMA | CONCRETE | | | | | HMA TYPE "A" FOR APPROACH | | HMA TYPE "A" SURFACE | HMA TYPE "A" INTERMEDIATE | HMA FOR ISLANDS TYPE "A" | 2, 70, SURFACE 12.5mm | 2, 70, INTERMEDIATE 19.0mm | 3, 76, BASE 25.0mm | 3, 76, BASE 25.0mm | 5, 76, INTERMEDIATE C19.0mm | | HMA TYPE "B" | HMA TYPE "B" | HMA TYPE "A" | HMA TYPE "A" | | | | PRIME COAT | TACK COAT | | | | | | | | | | |
| | | | | | | | | | | | | LBS. PER SYD. | | | | | LBS. PER SYD. | | | | | | LBS. PER SYD. | | | | | | | | | DEPTH | | | | | | | | |
| | | | | | | | | 1 | 2 | CUT | FILL | 110 | 330 | 220 | 275 | 110 | 220 | 275 | 275 | 330 | 220 | 110 | 440 | 440 | 330 | 220 | | | | | | 6 IN. | | | | | | | | |
| | | FEET | FEET | FEET | | | | % | % | CYS. | CYS. | TONS | TONS | TONS | TONS | TONS | TONS | TONS | TONS | TONS | TONS | TONS | TONS | TONS | TONS | TONS | SYS. | SYS. | SYS. | TONS | TONS | SYS. | SYS. | LFT | SYS | SYS. | LFT | LFT | LFT | LFT | LFT | |
| Line "D" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 391+11 Lt. | CL. II | 15.0 | 61.0 | 25, 15 | X | | | -4.00 | 9.75 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 394+74 Rt. | M.P.R.A. | 16.0 | 10.0 | 30,2 | | | | -1.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 395+16 Rt. | M.P.R.A. | 15.0 | 15.0 | 15,15 | | | | -0.47 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 395+52 Rt. | M.P.R.A. | 18.0 | 16.0 | 2,30 | | | | -1.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 398+79 Lt. | MOD. CL. V | 10.0 | 17.5 | 10, 10 | X | | | -2.82 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Modified Width, Radius |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 400+45 Lt. | MOD. CL. V | 11.0 | 18.0 | 10, 10 | X | | | -1.13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Modfied Width, Radius |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 404+56 Lt. | MOD. CL. V | 10.0 | 15.0 | 15, 15 | | | | -1.66 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Modified Width Radius |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 405+15 Lt. | MOD. CL. V | 10.0 | 15.0 | 15, 15 | | | | -1.66 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | |

# STRUCTURE DATA

| STRUCTURE NUMBER | LOCATION | | | | SIZE | PIPE TYPE | MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE | LENGTH | SKEW | FLOWLINE | | | SERVICE LIFE | SITE DESIGNATION | pH | BACKFILL METHOD | STRUCUTRE BACKFILL, TYPE 1 | CLASS 1 RIPRAP | CLASS 2 RIPRAP | REVETMENT RIPRAP | PIPE END SECTION | GEOTEXTILE, TYPE 1A | GRATED BOX END SECTION | | SAFETY METAL END SECTION | | RIM ELLEVATION | CONNECT TO STRUCTURE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | STATION | LEFT | RIGHT | CROSS | IN. | | | FEET | | COVER FEET | UP STREAM ELEV. | DOWN STREAM ELEV. | YEAR | | | | CYS. | TONS | TONS | TONS | EA. | SYS. | TYPE | EA. | SLOPE | EA. | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Line "D" | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 270+03 | | X | | 4'x2' | | RCB w/ Haunches | 33 | | 3.0 | 754.71 | 754.16 | 75 | A | 6.5 | 1 | 105.4 | 7.1 | | | | 16.2 | | | | | | | CLV-56660, Extend Existing Culvert |
| 10A | 277+60 | | X | | 15 | 3 | | 44 | | 2.0 | 749.21 | 748.78 | 50 | NA | 6.5 | 2 | | | | | 2 | | | | | | | | |
| 11 | 280+52 | | X | | 15 | 3 | | 52 | | 1.0 | 748.01 | 747.93 | 50 | NA | 6.5 | 2 | 4.9 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 281+03 | | X | | 24 | 1 | | 25 | | 2.8 | 748.45 | 746.88 | 75 | A | 6.5 | 1 | 10.7 | 7.1 | | | 1 | 16.2 | | | | | | | CLV-56661, Extend Existing VCP Pipe |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | 284+96 | | | X | 36 | 1 | Trenchless | 130 | 39.30° | 1.0 | 758.14 | 756.78 | 75 | NA | 6.5 | 1 | 4.2 | 18.9 | | | 2 | 32.2 | | | | | | | CLV-56662, w/ 1.5' Sump |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 290+55 | | | X | 36 | 1 | Trenchless | 123 | 26.23° | 1.0 | 770.31 | 769.26 | 75 | A | 6.5 | 1 | 8.1 | 16.0 | | | 2 | 28.7 | | | | | | | CLV-56663, w/ 1.5' Sump |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 295+12 | X | | | 15 | 3 | | 64 | | 1.9 | 772.12 | 771.60 | 50 | NA | 6.5 | 2 | 7.9 | | | | 2 | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 300+19 | | X | | 5'x3' | | RCB w/ Haunches | 19 | 39.69° | 8.0 | 737.35 | 720.31 | 75 | A | 6.5 | 1 | 89.9 | | 36.5 | | | 51.2 | | | | | | | CV-020-046-49.65, Extend Existing RCB |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Riprap Lt. |
| 17 | 302+72 | | X | | 24 | 2 | Manhole Type C-4 | 6 | | 8.0 | | Exist. | 75 | NA | 6.5 | 1 | | | 20.0 | | | 32.4 | | | | | | | Connect to Exist. CLV-020-046-49.69 RCB |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Riprap Lt. |
| 18 | 302+72 | | X | | 18 | 2 | Inlet Type P-12A | 6 | | 8.0 | 728.30 | 722.02 | 75 | NA | 6.5 | 1 | | | | | 1 | | | | | | | 17 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | 321+41 | | | X | 36 | 1 | Trenchless | 106 | | 2.8 | 737.11 | 735.35 | 75 | A | 6.5 | 1 | 65.5 | 16.0 | | | 1 | 28.7 | | | 4:1 | 1 | | | CLV-56664, w/ 1.5' Sump |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 325+19 | | X | | 15 | 3 | | 74 | | 3.2 | 736.29 | 735.48 | 50 | NA | 6.5 | 2 | 6.9 | | | | 2 | | | | | | | | |
| 20A | 325+77 | X | | | 15 | 3 | | 50 | | 1.0 | 735.19 | 734.58 | 50 | NA | 6.5 | 2 | 4.900 | | | | 2 | | | | | | | | |
| 21 | 327+37 | | X | | 20'x5.3' | | 3 Sided Structure | 20 | | 2.0 | 726.47 | Exist. | 75 | A | 6.5 | 1 | 111.1 | | | | | | | | | | | | CV-020-046-50.05, Extend Existing RCB |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | 327+37 | X | | | 20'x5.3' | | 3 Sided Structure | 11 | | 2.0 | Exist. | 726.38 | 75 | A | 6.5 | 1 | 40.4 | | | | | | | | | | | | CV-020-046-50.05, Extend Existing RCB |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | 330+65 | X | | | 15 | 3 | | 44 | | 1.4 | 736.19 | 735.98 | 50 | NA | 6.5 | 2 | 4.1 | | | | 2 | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | 336+14 | X | | | 15 | 3 | | 36 | | 2.2 | 740.73 | 740.37 | 50 | NA | 6.5 | 2 | 3.4 | | | | 2 | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 337+57 | | | X | 36 | 1 | | 104 | | 3.3 | 740.50 | 739.58 | 75 | A | 6.5 | 1 | 65.3 | 3.0 | | | 2 | 7.0 | | | | | | | CLV-020-046-50.34, w/ 1.5' Sump |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | 340+75 | | X | | 15 | 3 | | 106 | | 1.2 | 748.62 | 747.24 | 50 | NA | 6.5 | 2 | 9.9 | | | | 2 | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | 345+09 | | X | | 15 | 3 | | 29 | | 4.0 | 754.57 | 753.93 | 50 | NA | 6.5 | 2 | 2.8 | | | | 2 | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | 345+50 | X | | | 15 | 3 | | 80 | | 1.0 | 759.73 | 758.15 | 50 | NA | 6.5 | 2 | 7.5 | | | | 2 | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | 346+60 | | | X | 42 | 1 | Trenchless | 123 | | 2.1 | 755.82 | 754.85 | 75 | A | 6.5 | 1 | | 6.0 | | 8 | | 34.0 | | | | | | | CLV-020-046-50.53, w/ Inlet Depression |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 349+15 | | X | | 18 | 3 | | 102 | | 2.0 | 768.29 | 764.88 | 50 | NA | 6.5 | 2 | 9.6 | | | | 2 | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | 352+37 | | X | | 18 | 3 | | 50 | | 2.4 | 774.27 | 772.62 | 50 | NA | 6.5 | 2 | 4.7 | | | | 2 | | | | | | | | |
| 31A | 354+40 | X | | | 15 | 3 | | 38 | | 1.2 | 783.58 | 782.05 | 50 | NA | 6.5 | 2 | | | | | 2 | | | | | | | | |
| 32 | 359+02 | | | X | 36 | 1 | Trenchless | 123 | 18.15° | 1.3 | 790.05 | 789.61 | 75 | A | 6.5 | 1 | 60.4 | 6.0 | | | 2 | 18.0 | | | | | | | CLV-56665, w/ 0.5' Sump |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33 | 363+57 | | X | | 15 | 3 | | 34 | | 1.2 | 794.74 | 794.60 | 50 | NA | 6.5 | 2 | 3.2 | | | | 2 | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 34 | 366+64 | | X | | 15 | 3 | | 32 | | 1.2 | 796.05 | 795.92 | 50 | NA | 6.5 | 2 | 3.0 | | | | 2 | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35 | 368+18 | | X | | 15 | 3 | | 32 | | 1.2 | 795.71 | 795.34 | 50 | NA | 6.5 | 2 | 3.0 | | | | 2 | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 36 | 372+15 | | X | | 15 | 3 | | 36 | | 1.3 | 790.50 | 789.87 | 50 | NA | 6.5 | 2 | 3.4 | | | | 2 | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 37 | 373+06 | | X | | 18 | 3 | | 24 | | 1.2 | 788.84 | 788.17 | 50 | NA | 6.5 | 2 | 2.3 | | | | 2 | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 38 | 373+82.5 | X | | | 15 | 3 | | 46 | | 2.8 | 787.95 | 786.67 | 50 | NA | 6.5 | 2 | 4.3 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JCS DRAWN: JMT

CHECKED: JWG CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

STRUCTURE DATA TABLE

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| NA | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 148 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS

\\bfsfs2\Jobs\6453.0000\ProDevelopment\Design\Drawings\6453 R961.dwg Dillon Mong Plot:4/25/2022 6:44 AM Save:4/21/2022 4:07 PM

# STRUCTURE DATA

| STRUCTURE NUMBER | LOCATION | | | | SIZE | PIPE TYPE | MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE | LENGTH | SKEW | FLOWLINE | | | SERVICE LIFE | SITE DESIGNATION | pH | BACKFILL METHOD | STRUCUTRE BACKFILL, TYPE 1 | CLASS 1 RIPRAP | CLASS 2 RIPRAP | REVETMENT RIPRAP | PIPE END SECTION | GEOTEXTILE, TYPE 1A | GRATED BOX END SECTION | | SAFETY METAL END SECTION | | RIM ELEVATION | CONNECT TO STRUCTURE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | STATION | LEFT | RIGHT | CROSS | | | | | | COVER | UP STREAM | DOWN STREAM | | | | | | | | | | | TYPE | EA. | SLOPE | EA. | | | |
| | | | | | IN. | | | FEET | | FEET | ELEV. | ELEV. | YEAR | | | | CYS. | TONS | TONS | TONS | EA. | SYS. | | | | | | | |
| 39 | 377+51 | X | | | 15 | 3 | | 28 | | 1.0 | 787.37 | 787.29 | 50 | NA | 6.5 | 2 | 2.6 | | | | 2 | | | | | | | | |
| 40 | 391+11 | X | | | 15 | 3 | | 32 | | 1.7 | 776.68 | 776.52 | 50 | NA | 6.5 | 2 | 3.0 | | | | | | | | | | | | |
| 41 | 392+40 | X | | | 30 | 1 | | 15 | | 2.0 | 775.69 | 774.16 | 75 | A | 6.5 | 1 | 76.1 | | 3 | | 1 | 7.0 | | | | | | | CLV-56666, Extend Existing Culvert |
| 42 | 398+79 | X | | | 18 | 3 | | 24 | | 1.0 | 784.27 | 783.81 | 50 | NA | 6.5 | 2 | 2.3 | | | | 2 | | | | | | | | |
| 43 | 400+45 | X | | | 15 | 3 | | 22 | | 1.0 | 786.93 | 786.48 | 50 | NA | 6.5 | 2 | 2.1 | | | | 2 | | | | | | | | |
| 100 | 299+50 "PR-D" | | X | | 24 | | Manhole Type C-4 | 67 | | | | | | | | | | | | | | | | | | | | | |
| 101 | 301+20 "PR-D" | | X | | 24 | | Manhole Type C-4 | 166 | | | | | | | | | | | | | | | | | | | | | |
| 102 | 301+20 "PR-D" | X | | | 15 | | Inlet Type R-13 | 37 | | | | | | | | | | | | | | | | | | | | | |
| 103 | 301+50 "PR-D" | X | | | 15 | | Inlet Type R-13 | 28 | | | | | | | | | | | | | | | | | | | | | |
| 104 | 302+00 "PR-D" | X | | | 15 | | Inlet Type R-13 | 48 | | | | | | | | | | | | | | | | | | | | | |
| 105 | 302+85 "PR-D" | | X | | 18 | | Mahole Type C-4 | 161 | | | | | | | | | | | | | | | | | | | | | |
| 106 | 302+85 "PR-D" | X | | | 18 | | Inlet Type R-13 | 37 | | | | | | | | | | | | | | | | | | | | | |
| 107 | 303+50 "PR-D" | X | | | 18 | | Inlet Type R-13 | 62 | | | | | | | | | | | | | | | | | | | | | |

| | | | |
|---|---|---|---|
| | RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE | INDIANA DEPARTMENT OF TRANSPORTATION | HORIZONTAL SCALE: NA / BRIDGE FILE: |
| | DESIGNED: JCS DRAWN: JMT | STRUCTURE DATA TABLE | VERTICAL SCALE: N/A / DESIGNATION: 1702993 |
| | CHECKED: JWG CHECKED: JCS | | SURVEY BOOK: 149 OF 283 / SHEET |
| | | | CONTRACT: R-41437 / PROJECT: 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS

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# PIPE MATERIAL SELECTION

| | | STRUCTURE NUMBER | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 |
| PIPE TYPE/SHAPE | | | | | | | | | | | | | | | | | | | | | | | |
| SMOOTH PIPE SIZE | | | | | | | | | | | | | | | | | | | | | | | |
| CORRUGATED PIPE SIZE | | | | | | | | | | | | | | | | | | | | | | | |
| RCP/RCHEP (S) | CLASS | | | | | | | | | | | | | | | | | | | | | | |
| | D 0.01 RATING | | | | | | | | | | | | | | | | | | | | | | |
| NON-REINFORCED CONCRETE PIPE, CLASS 3 (S) | | | | | | | | | | | | | | | | | | | | | | | |
| CORRUGATED PE PIPE, TYPE S (S) | | | | | | | | | | | | | | | | | | | | | | | |
| RIBBED PE PIPE, TYPE S (S) | | | | | | | | | | | | | | | | | | | | | | | |
| SMOOTH WALL PE PIPE (S)/ MAXIMUM DR | | | | | | | | | | | | | | | | | | | | | | | |
| PROFILE WALL PVC PIPE (S) | | | | | | | | | | | | | | | | | | | | | | | |
| SMOOTH WALL PVC PIPE (S) | | | | | | | | | | | | | | | | | | | | | | | |
| VITRIFIED CLAY PIPE, EXTRA STRENGTH (S) | | | | | | | | | | | | | | | | | | | | | | | |
| CORRUGATED STEEL PIPE/PIPE ARCH | | | | | | | | | | | | | | | | | | | | | | | |
| FULLY BIT. PAVED AND LINES (S) (LS) | CORR. PROFILE | | | | | | | | | | | | | | | | | | | | | | |
| | THICKNESS | | | | | | | | | | | | | | | | | | | | | | |
| ZINC COATED (C) | CORR. PROFILE | | | | | | | | | | | | | | | | | | | | | | |
| | THICKNESS | | | | | | | | | | | | | | | | | | | | | | |
| ZINC COATED W/ BPI (C) | CORR. PROFILE | | | | | | | | | | | | | | | | | | | | | | |
| | THICKNESS | | | | | | | | | | | | | | | | | | | | | | |
| ALUM COATED TYPE 2 (C) | CORR. PROFILE | | | | | | | | | | | | | | | | | | | | | | |
| | THICKNESS | | | | | | | | | | | | | | | | | | | | | | |
| ALUM. COATED TYPE 2 W/ BPI (C) (S) IA, OR IIA | CORR. PROFILE | | | | | | | | | | | | | | | | | | | | | | |
| | THICKNESS | | | | | | | | | | | | | | | | | | | | | | |
| POLYMER PRECOATED GALVANIZED (C) | CORR. PROFILE | | | | | | | | | | | | | | | | | | | | | | |
| | THICKNESS | | | | | | | | | | | | | | | | | | | | | | |
| POLYMER PRECOATED GALVANIZED (S) IA OR IIA | CORR. PROFILE | | | | | | | | | | | | | | | | | | | | | | |
| | THICKNESS | | | | | | | | | | | | | | | | | | | | | | |
| CORRUGATED ALUM ALLOW PIPE (C) | CORR. PROFILE | | | | | | | | | | | | | | | | | | | | | | |
| | THICKNESS | | | | | | | | | | | | | | | | | | | | | | |
| CORRUGATED ALUM ALLOWY PIPE W/ BPI (C) | CORR. PROFILE | | | | | | | | | | | | | | | | | | | | | | |
| | THICKNESS | | | | | | | | | | | | | | | | | | | | | | |
| STR. PLATE ALUMINUM ALLOY PIPE (C) | CORR. PROFILE | | | | | | | | | | | | | | | | | | | | | | |
| | THICKNESS | | | | | | | | | | | | | | | | | | | | | | |
| STR. PLATE ALUMINUM ALLOY PIPE W/ BPI (C) | CORR. PROFILE | | | | | | | | | | | | | | | | | | | | | | |
| | THICKNESS | | | | | | | | | | | | | | | | | | | | | | |
| STR. PLATE STEEL PIPE (C) | CORR. PROFILE | | | | | | | | | | | | | | | | | | | | | | |
| | THICKNESS** | | | | | | | | | | | | | | | | | | | | | | |
| STR. PLATE STEEL PIPE W/ CFP (C) | CORR. PROFILE | | | | | | | | | | | | | | | | | | | | | | |
| | THICKNESS** | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |


# PIPE MATERIAL SELECTION

| | | STRUCTURE NUMBER | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 |
| PIPE TYPE/SHAPE | | | | | | | | | | | | | | | | | | | | | | | |
| SMOOTH PIPE SIZE | | | | | | | | | | | | | | | | | | | | | | | |
| CORRUGATED PIPE SIZE | | | | | | | | | | | | | | | | | | | | | | | |
| RCP/RCHEP (S) | CLASS | | | | | | | | | | | | | | | | | | | | | | |
| | D 0.01 RATING | | | | | | | | | | | | | | | | | | | | | | |
| NON-REINFORCED CONCRETE PIPE, CLASS 3 (S) | | | | | | | | | | | | | | | | | | | | | | | |
| CORRUGATED PE PIPE, TYPE S (S) | | | | | | | | | | | | | | | | | | | | | | | |
| RIBBED PE PIPE, TYPE S (S) | | | | | | | | | | | | | | | | | | | | | | | |
| SMOOTH WALL PE PIPE (S)/ MAXIMUM DR | | | | | | | | | | | | | | | | | | | | | | | |
| PROFILE WALL PVC PIPE (S) | | | | | | | | | | | | | | | | | | | | | | | |
| SMOOTH WALL PVC PIPE (S) | | | | | | | | | | | | | | | | | | | | | | | |
| VITRIFIED CLAY PIPE, EXTRA STRENGTH (S) | | | | | | | | | | | | | | | | | | | | | | | |
| CORRUGATED STEEL PIPE/PIPE ARCH | | | | | | | | | | | | | | | | | | | | | | | |
| FULLY BIT. PAVED AND LINES (S) (LS) | CORR. PROFILE | | | | | | | | | | | | | | | | | | | | | | |
| | THICKNESS | | | | | | | | | | | | | | | | | | | | | | |
| ZINC COATED (C) | CORR. PROFILE | | | | | | | | | | | | | | | | | | | | | | |
| | THICKNESS | | | | | | | | | | | | | | | | | | | | | | |
| ZINC COATED W/ BPI (C) | CORR. PROFILE | | | | | | | | | | | | | | | | | | | | | | |
| | THICKNESS | | | | | | | | | | | | | | | | | | | | | | |
| ALUM COATED TYPE 2 (C) | CORR. PROFILE | | | | | | | | | | | | | | | | | | | | | | |
| | THICKNESS | | | | | | | | | | | | | | | | | | | | | | |
| ALUM. COATED TYPE 2 W/ BPI (C) (S) IA, OR IIA | CORR. PROFILE | | | | | | | | | | | | | | | | | | | | | | |
| | THICKNESS | | | | | | | | | | | | | | | | | | | | | | |
| POLYMER PRECOATED GALVANIZED (C) | CORR. PROFILE | | | | | | | | | | | | | | | | | | | | | | |
| | THICKNESS | | | | | | | | | | | | | | | | | | | | | | |
| POLYMER PRECOATED GALVANIZED (S) IA OR IIA | CORR. PROFILE | | | | | | | | | | | | | | | | | | | | | | |
| | THICKNESS | | | | | | | | | | | | | | | | | | | | | | |
| CORRUGATED ALUM ALLOW PIPE (C) | CORR. PROFILE | | | | | | | | | | | | | | | | | | | | | | |
| | THICKNESS | | | | | | | | | | | | | | | | | | | | | | |
| CORRUGATED ALUM ALLOWY PIPE W/ BPI (C) | CORR. PROFILE | | | | | | | | | | | | | | | | | | | | | | |
| | THICKNESS | | | | | | | | | | | | | | | | | | | | | | |
| STR. PLATE ALUMINUM ALLOY PIPE (C) | CORR. PROFILE | | | | | | | | | | | | | | | | | | | | | | |
| | THICKNESS | | | | | | | | | | | | | | | | | | | | | | |
| STR. PLATE ALUMINUM ALLOY PIPE W/ BPI (C) | CORR. PROFILE | | | | | | | | | | | | | | | | | | | | | | |
| | THICKNESS | | | | | | | | | | | | | | | | | | | | | | |
| STR. PLATE STEEL PIPE (C) | CORR. PROFILE | | | | | | | | | | | | | | | | | | | | | | |
| | THICKNESS** | | | | | | | | | | | | | | | | | | | | | | |
| STR. PLATE STEEL PIPE W/ CFP (C) | CORR. PROFILE | | | | | | | | | | | | | | | | | | | | | | |
| | THICKNESS** | | | | | | | | | | | | | | | | | | | | | | |


RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JWG DRAWN: BKM

CHECKED: JCS CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

PIPE MATERIAL SELECTION TABLE

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| N/A | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 150 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS

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# GUARDRAIL SUMMARY TABLE

| FROM (STATION) | TO (STATION) | LEFT | RIGHT | MEDIAN LEFT | MEDIAN RIGHT | W-BEAM GUARDRAIL LENGTH | | | | | | | | | GUARDRAIL END TREATMENT MS | GUARDRAIL END TREATMENT OS | GUARDRAIL END TREATMENT TYPE I | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | STANDARD POST AT 6'-3" SPA. | STANDARD POST AT 3'-1 1/2" SPA. | STANDARD POST AT 1'-6 3/4" SPA. | DOUBLE FACED AT 6'-3" SPA. | LONG POST AT 6'-3 " SPA. | LONG POST AT 3'-1 1/2" SPA. | LONG POST AT 1'-6 3/4" SPA. | SHOP CURVED AT 6'-3" SPA. | NESTED GUARDRAIL | | | | |
| | | | | | | LFT | LFT | LFT | LFT | LFT | LFT | LFT | LFT | LFT | EACH | EACH | EACH | |

| | | | |
|---|---|---|---|
| | RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE | INDIANA DEPARTMENT OF TRANSPORTATION | HORIZONTAL SCALE: N/A; BRIDGE FILE: |
| | DESIGNED: JWG DRAWN: BKM | GUARDRAIL SUMMARY TABLE | VERTICAL SCALE: N/A; DESIGNATION: 1702993 |
| | CHECKED: JCS CHECKED: JWG | | SURVEY BOOK: ; SHEET: 151 OF 283 |
| | | | CONTRACT: R-41437; PROJECT: 1702993 |

BFS NO. 6453.0000

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PRELIMINARY PLANS

# SHEET SIGN & POST SUMMARY

| SIGN | | | | | | | | | | POST | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PLAN SHEET NO./LINE | SIGN LOCATION STA. | SIGN CODE | SIGN SIZE (in.) | ENCAPSULATED LENS METAL THICKNESS AND SIGN AREA (SFT) | | | ENCLOSED LENS METAL THCKNESS AND SIGN AREA (SFT) | | | SQUARE | | | | | |
| | | | | | | | | | | 2" x 2" x 14 Ga. | | | | | |
| | | | | THCKNESS OF METAL (IN.) | | | THCKNESS OF METAL (IN.) | | | REINFORCED | | | UNREINFORCED | | |
| | | | | | | | | | | POST LENGTH (FT.) | | | POST LENGTH (FT.) | | |
| | | | | 0.080 | 0.100 | 0.125 | 0.080 | 0.100 | 0.125 | 1 | 2 | TOTAL | 1 | 2 | TOTAL |
| | | | | | | | | | | | | | | | |

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JWG DRAWN: BKM

CHECKED: JCS CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

SIGN SUMMARY TABLE

| HORIZONTAL SCALE | BRIDGE FILE |
|---|---|
| N/A | |
| VERTICAL SCALE | DESIGNATION |
| N/A | 1702993 |
| SURVEY BOOK | SHEET |
| | 152 OF 283 |
| CONTRACT | PROJECT |
| R-41437 | 1702993 |

BFS NO. 6453.0000

PRELIMINARY PLANS

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