| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| FAS 249 | 03-00190-00-BR | BUREAU | 22 | 6 |
| FED. ROAD DIST. NO. 7 | ILLINOIS | FED. AID PROJECT- BRS-2491(04) | | |

Contract No. 87365

# SECTION BEGINS AT STA. 51+91

P.O.T Sta. 51+20 5/8" I.P.

Set 5/8" I.P. N 43°46' E 33.46' Set 5/8" I.P. N 46°14' W 33.46'

P.O.T Sta. 53+17.5 P.K. Nail

Nail & Washer in Wood Post Gravel Field Ent. N 72° E 38.25' Nail & Washer in PP

Benchmark: R.R. Spk. in P.P. 36.5' Lt. of Sta. 53+48. Elev.=417.94

Benchmark: Brass Disc in NE Corner of Exist. Bridge on Hub Guard 12.5' Rt. of Sta. 55+73. Elev.=423.53

Benchmark: R.R. Spk. in P.P. 44' Lt. of Sta. 57+16. Elev.=417.77

P.O.T Sta. 56+02.54 P.K. Nail

Set 5/8" I.P. N 43°04' E 24.30' Set 5/8" I.P. N 46°56' W 24.30'

P.O.T Sta. 58+19.13 5/8" I.P.

Set 5/8" I.P. N 43°04' E 24.30' Set 5/8" I.P. N 46°56' W 24.30'

## CIRCULAR

Ic = 11°08'15"
Da = 02°00'00"
Dc = 02°00'00"
T = 279.33
R = 2864.93
L = 556.90
CL = 556.02
E = 13.58
M = 13.52

P.C. = Sta. 55+40.68
P.T. = Sta. 60+97.58
P.I. = Sta. 58+19.96
e = 3.0%
T.R. = L1 = 57', L2 = 28'
S.E. Run = 8% Max. Chart, 40 MPH
N.C. = 54+41.68
Max. Super = 55+73.68 to 57+00.00

Note: Hatched Area Indicates Channel Excavation

Concrete Headwall for Pipe Drain, Typ. Cost incidental to Pipe Underdrain 6".

32'-24" ϕ CSCP @ 1.5% Grade w/Metal End Sections ℄ Elev.=414.97

Temporary Construction Easement

Proposed R.O.W.

Existing R.O.W.

ROW Marker

Fence Line

Pipe Underdrains 6", Typ.

Earth Shoulders

℄ Ultimate

℄ Proposed

Saw Cut Incidental

F.A.S. 249

Pipe Underdrains 6", Typ.

Aggr. Shldr., Ty. B

Heavy Brush & Tree Line

Existing Culvert Pipe to be Removed. Cost Incidential to Contract.

Aggr. Shldr., Ty. B

Existing R.O.W.

Proposed R.O.W.

24'-36" ϕ CSCP @ 0.67% Grade w/Metal End Sections ℄ Elev.=415.05

PT Sta. 53+04.01

CROW

PC Sta. 55+40.68

℄ Bridge 55+01

90°0'0"

CREEK

Proposed R.O.W.

Temporary Construction Easement

Traffic Barrier Terminal, Type 6A (Typ. Each Quad.)

Traffic Barrier Terminal, Type 1, Special (Tangent) Typ. Each Quad.

Proposed R.O.W.

Existing R.O.W.

Steel Plate Beam Guardrail, Type A 50' on Approaches

Aggr. Shldr., Ty. B

Saw Cut Incidental

F.A.S. 249

Existing Guardrail Removal Incidental to Removal of Existing Structures

Heavy Brush & Tree Line

Earth Shoulders

Aggr. Shldr., Ty. B

Existing R.O.W.

Fence Line

Proposed R.O.W.

Temporary Construction Easement

# SECTION ENDS AT STA. 58+26

## ULTIMATE CIRCULAR CURVE

Ic = 16°26'27"
Da = 04°24'56"
Dc = 04°25'00"
T = 187.46
R = 1297.58
L = 372.34
CL = 371.06
E = 13.47
M = 13.33
P.C. = Sta. 49+31.67
P.T. = Sta. 53+04.01
P.I. = Sta. 51+22.55
e = 2.75% left, 5.50% right
T.R. = L1 = 104', L2 = 28'
S.E. Run = 8% Max. Chart, 40 MPH
N.C. = 54+03.01
Max. Super = 52+50.00 to 52+71.01

## PROPOSED CIRCULAR CURVE

Ic = 10°54'48.5"
Da = 05°27'24.3"
Dc = 05°27'31.7"
T = 100.30
R = 1050.00
L = 200.00
CL = 199.70
E = 4.78
M = 4.76
P.C. = Sta. 51+04.01
P.T. = Sta. 53+04.01
P.I. = Sta. 52+03.71
e = 2.75% left, 5.50% right
T.R. = L1 = 104', L2 = 28'
S.E. Run = 8% Max. Chart, 40 MPH
N.C. = 54+03.01
Max. Super = 52+50.00 to 52+71.01

Existing Structure: S.N. 006-3230
Three Span (38'-3" ; 48'-0" ; 38'-3") Steel Girder Structure Supported by R.C. Abutments and Piers All on Friction Pile At Sta. 55+10. Skewed 0°. To be Removed. No Salvage.

Proposed Structure: S.N. 006-3231
A Single Span (1 @ 125'-6") Steel Plate Girder Structure on Pile Bent Spill Thru Abutments At Sta. 55+01, Skewed 0°.

CALL J.U.L.I.E. TOLL FREE 800-892-0123

20 0 20 40 60

SCALE 20' 5'

ex = 2.359'
K = 48
300.00' V.C.
30 MPH

PC STA. 50+00.00 ELEVATION 427.39

BOP STA. 51+91.00 ELEVATION 422.06

VPI STA. 51+50.00 ELEVATION 420.20

PT STA. 53+00.00 ELEVATION 422.45

-4.79% +1.50%

Proposed Profile

Existing Profile

PC STA. 54+10.00 ELEVATION 424.10

VPI STA. 55+10.00 ELEVATION 425.60

+1.50% -1.50%

20 Yr. H.W.E.=418.01

1'-0"

*Channel Excavation

S.B. Elev.=407.0

ex = -0.75'
K = 67
200.00' V.C.
45 MPH

PT STA. 56+10.00 ELEVATION 424.10

PC STA. 56+37.50 ELEVATION 421.69

ex = 2.978'
K = 44
325.00' V.C.
30 MPH

-1.50% +5.83%

VPI STA. 58+00.00 ELEVATION 421.25

PT STA. 59+62.50 ELEVATION 430.72

EOP STA = 58+26.00 EOP EL = 424.67

*Channel Excavation shall be Tapered from Deck Edge to R.O.W.

Earth Excavation = 1,011 Cu. Yds.
Channel Excavation = 1,244 Cu. Yds.

| | 52+00 | 53+00 | 54+00 | 55+00 | 56+00 | 57+00 | 58+00 |
|---|---|---|---|---|---|---|---|
| | 422.32 | 422.82 | 422.57 | 422.87 | 423.10 | 422.78 | 423.11 | 423.54 | 424.43 |
| | 422.00 | 422.45 | 423.20 | 423.95 | 424.58 | 424.24 | 423.19 | 423.43 | 424.23 |
| | 422.24 | | | 424.84 | | 423.62 | | | |
| | 421.96 | | | | 424.73 | | 423.62 | | |