CONTRACT NO. 64560

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	CARROLL	548	103
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* ROUTE 47 (US 52 / IL 64)
** (1,2)RS &(3-1)RS-1

PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / PROFILE CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

US RTE 52
EXIST. CURVE 340
PI STA. = 379+71.11
Δ = 21° 15′ 56″ (RT)
D = 2° 29′ 36″
R = 2,297.99′
T = 431.42′
L = 852.91′
E = 40.15′
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 375+39.69
P.T. STA. = 383+92.61

PROP. CURVE S340
PI STA. = 379+71.11
Δ = 21° 15′ 56″ (RT)
D = 2° 29′ 36″
R = 2,297.99′
T = 431.42′
L = 852.91′
E = 40.15′
e = 4.5%
T.R. = 39′
S.E. RUN = 117′
P.C. STA. = 375+39.69
P.T. STA. = 383+92.61

DUANE LAW

KENNETH REKENTHALER

CLOY COATS

CONSTANCE M. BROWN

EDNA MAE SHEPHERD TRUST

ACCESS CONTROL

PAVEMENT REMOVAL

GETZ RD

PROPOSED
3′ BITUMINOUS SHOULDER
5′ AGGREGATE SHOULDER

TEMP. EASE.
389+80.00
110.00′ LT
389+80.00
87.57′ LT
390+35.00
100.00′ LT
390+35.00
79.88′ LT

383+92.61 STA
385+03.24
42.00′ LT
384+73.20
12.78′ LT
385+23.69
42.00′ LT
385+53.71
12.72′ LT
386+85.66 STA

CONSTRUCTION LIMITS
CONSTRUCTION LIMITS

US RTE 52

MATCHLINE STA 379+00
MATCHLINE STA 394+00

380+00
385+00
390+00

112′
112′
17′

STA 380+84
EXISTING 24″ RCCP, CONCRETE HEADWALL REMOVAL RT
133′ INSERTION CULV LINER 22″
79′ RT BOX CULVERT END SECTION #3
79′ RT ℄ = 845.10
RIP-RAP CL A5, 20′ x 7′ WITH FILTER FABRIC

381+25.00
100.00′ RT
TEMP. EASE.
380+25.11
100.01′ RT
380+74.98
120.01′ RT

STA 390+09.69
CONCRETE HEADWALL REMOVAL RT
1- 8′ SEC PIPE CULV REMOVAL
34′ RT ℄ = 874.97
34′ RT PRC FLARED END SEC 33″
85′ INSERTION CULV LINER 32″
53′ LT 15′ INSERTION CULV LINER 32″
53′ LT ℄ = 861.00
RIP-RAP CL A4 17′ x 9′ WITH FILTER FABRIC

390+93.48
12.92′ RT

STA 391+46.73 (US RTE 52)=
STA 80+00 (SEVEN HILLS RD)

IMPROVEMENT ENDS
STA 78+65

392+86.31
12.59′ RT
392+10.00
60.00′ RT
PROPOSED
ACCESS CONTROL
391+99.92
88.58′ RT
WELL

SEVEN HILLS RD.

POT STA 77+68.42

NOTES:
1. EXISTING CULVERT TO BE CLEANED PRIOR TO LINER INSERTION STA. 380+84 & 390+10.
2. GRADE AND SHAPE CHANNEL AS NECESSARY.
3. EXCAVATE END OF CULVERT RT FOR LINER INSERTION, COST INCLUDED IN LINER INSERTION.

Drainage Area = 3.3 Acres			Drainage Area PR = 3.3 Acres		
Existing Low Grade Elevation: 865.07 ft. @ 380+74					
Proposed Low Grade Elevation: 865.26 ft. @ 380.74					
Flood	Frequency Year	Discharge EX cfs	Discharge PR cfs	Headwater Elev. (ft) Existing	Proposed
Ten-Year	10	6.0	6.0	860.3	860.3
Design	50	9.0	9.0	860.4	860.40
Base	100	10.0	10.0	860.43	860.43
EX Overtopping	>500				
PR Overtopping	>500				
Max Calc	500	14.0	14.0	860.53	860.53

Drainage Area = 2.3 Acres			Drainage Area PR = 2.3 Acres		
Existing Low Grade Elevation: 879.16 ft. @ 390+08					
Proposed Low Grade Elevation: 879.35 ft. @ 390+08					
Flood	Frequency Year	Discharge EX cfs	Discharge PR cfs	Headwater Elev. (ft) Existing	Proposed
Ten-Year	10	5.0	5.0	875.21	875.56
Design	50	7.0	7.0	875.39	875.77
Base	100	8.0	8.0	875.48	875.86
EX Overtopping	>500				
PR Overtopping	>500				
Max Calc	500	11.0	11.0	875.71	876.13

DUANE LAW

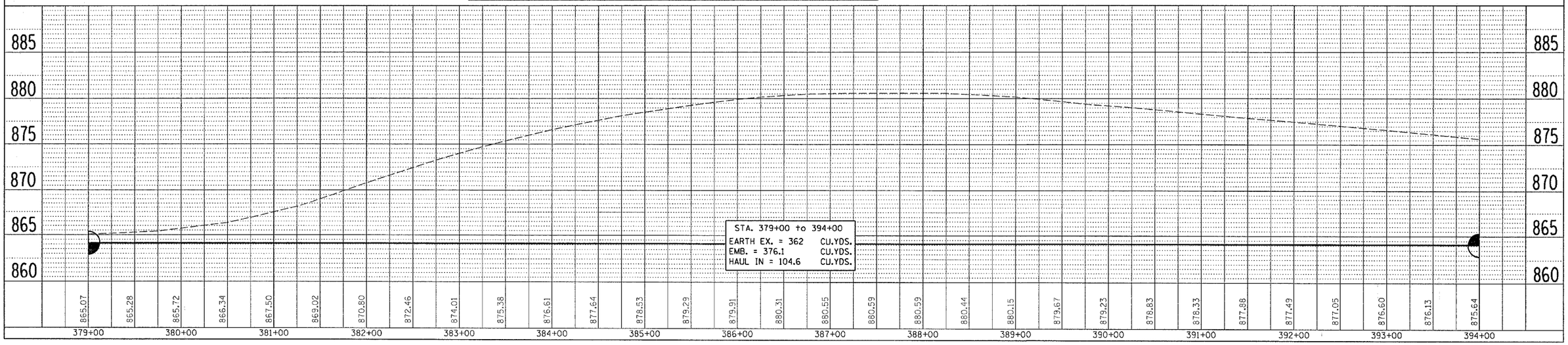
EXIST. CURVE 350
PI STA. = 391+82.42
Δ = 29° 03′ 17″ (LT)
D = 2° 59′ 19″
R = 1,917.06′
T = 496.76′
L = 972.14′
E = 63.32′
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 386+85.66
P.T. STA. = 396+57.80

PROP. CURVE S350
PI STA. = 391+82.42
Δ = 29° 03′ 17″ (LT)
D = 2° 59′ 19″
R = 1,917.06′
T = 496.76′
L = 972.14′
E = 63.32′
e = 5.0%
T.R. = 39′
S.E. RUN = 129′
P.C. STA. = 386+85.66
P.T. STA. = 396+57.80

INLET AND PIPE PROTECTION
TEMPORARY DITCH CHECK
PERIMETER EROSION BARRIER

0 50′ 100′

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / ALIGNMENT CHECKED / STRUCTURE NO(S)/ING CHKD / NOTE BOOK / NO. / BY / DATE



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US RTE 52