

IL RTE. 31 MAINLINE

328 STA. 128+03.00, 37.5' RT
MAN TA 4 DIA T20F&G
RIM = 770.14
INV = 765.15 (W)
INV = 764.15 (N)
INV = 766.64 (4" N)

329 STA. 130+75.00, 37.5' RT
CB TA 4 DIA T20F&G
RIM = 773.06
INV = 767.47 (W)
INV = 765.47 (S)

330 STA. 129+50.00, 37.5' RT
MAN TA 4 DIA T20F&G
RIM = 771.59
INV = 757.00 (N, S, W)
INV = 755.00 (E)

331 STA. 129+50, 78.5' RT
PRC FLAR END SEC 12
INV = 747.29 (W)

332 STA. 135+14.00, 37.2' RT
CB TA 4 DIA T20F&G
RIM = 777.86
INV = 769.30 (E)

333 STA. 136+66.00, 37.2' RT
CB TA 4 DIA T20F&G
RIM = 779.57
INV = 769.30 (E)
INV = 776.14 (4" W)

334 STA. 138+02.00, 37.2' RT
CB TA 4 DIA T20F&G
RIM = 781.04
INV = 767.00 (4" NE)
INV = 765.90 (E)
INV = 766.00 (4" SE)

335 STA. 139+22.00, 37.2' RT
CB TA 4 DIA T20F&G
RIM = 782.36
INV = 768.03 (E)
INV = 778.89 (4" W)

IL RTE. 31 MAINLINE

338 STA. 136+66.00, 90.0' RT
PRC FLAR END SEC 12
INV = 757.60 (W)

341 STA. 139+22.00, 49.5' RT
PRC FLAR END SEC 12
INV = 768.00 (W)

342 STA. 138+01.63, 68.0' RT
PRC FLAR END SEC 12
INV = 763.00 (W)

343 STA. 135+25.25, 119.7' RT
PRC FLAR END SEC 12
INV = 750.75 (W)

349 STA. 128+10.00, 37.5' LT
CB TA 4 DIA T20F&G
RIM = 770.21
INV = 766.21 (E)

353 STA. 132+95.00, 37.5' RT
CB TA 4 DIA T20F&G
RIM = 775.55
INV = 771.55 (W)

354 STA. 133+24, 37.5' LT
CB TA 4 DIA T20F&G
RIM = 775.87
INV = 771.16 (E)
INV = 769.16 (N)
INV = 772.37 (4" NE)

356 STA. 133+80, 34.0' LT
MAN TA 4 DIA T1F CL
RIM = 776.34
INV = 766.34 (S)
INV = 764.34 (W)

357 STA. 129+50.00, 36.5' LT
CB TA 4 DIA T20F&G
RIM = 771.76
INV = 765.76 (E)

358 STA. 130+75.00, 36.5' LT
CB TA 4 DIA T20F&G
RIM = 773.15
INV = 768.15 (E)

IL RTE. 31 MAINLINE

355 STA. 133+77.42, 100.3' LT
PRC FLAR END SEC 12
INV = 752.00 (SE)

328 144'-STORM SEW CL A 2, 12" @ 5.66%
TBF=160.3 CU YD

329 121'-STORM SEW CL A 2, 12" @ 7.00%
TBF=153.0 CU YD

330 22'-STORM SEW CL A 1, 15" @ 33.33%
2-R C PIPE ELBOW 15
1-CONCRETE ANCHOR
SEE SHEET 359 FOR SLOPE DRAIN DETAILS.
TBF=0.0 CU YD

332 69'-STORM SEW CL A 2, 12" @ 25.68%
2-R C PIPE ELBOW 12
2-CONCRETE ANCHOR
SEE SHEET 359 FOR SLOPE DRAIN DETAILS.
TBF=0.0 CU YD

333 34'-STORM SEW CL A 2, 12" @ 22.02%
2-R C PIPE ELBOW 12
1-CONCRETE ANCHOR
SEE SHEET 359 FOR SLOPE DRAIN DETAILS.
TBF=0.0 CU YD

334 25'-STORM SEW CL A 3, 12" @ 9.36%
TBF=0.0 CU YD

335 3'-STORM SEW CL A 3, 12" @ 0.25%
TBF=0.0 CU YD

349 76'-STORM SEW CL A 1, 12" @ 2.71%
TBF=16.3 CU YD

353 81'-STORM SEW CL A 1, 12" @ 0.48%
TBF=11.5 CU YD

354 55'-STORM SEW CL A 2, 12" @ 5.13%
TBF=48.0 CU YD

356 59'-STORM SEW CL A 2, 12" @ 20.92%
TBF=1.5 CU YD

357 66'-STORM SEW CL A 2, 12" @ 13.27%
TBF=78.7 CU YD

358 66'-STORM SEW CL A 2, 12" @ 1.03%
TBF=16.3 CU YD

U19 92'-PIPE UNDERDRAIN, 4"

U20 98'-PIPE UNDERDRAIN, 4"

U21 65'-PIPE UNDERDRAIN, 4"

U24 65'-PIPE UNDERDRAIN, 4"

RAMP A

142 STA. 8+10.00, 8.7' RT
CB TC T24F&G
RIM = 770.93
INV = 766.55 (E)
INV = 767.43 (4" W)

143 STA. 8+10.00, 37.5' RT
PRC FLAR END SEC 12
INV = 766.40 (W)

144 STA. 5+60.00, 15.4' RT
CB TC T24F&G
RIM = 761.56
INV = 756.56 (E)
INV = 758.06 (4" W)

145 STA. 5+60.00, 46.3' RT
PRC FLAR END SEC 12
INV = 756.43 (W)

146 STA. 3+10.00, 23.7' RT
CB TC T24F&G
RIM = 752.49
INV = 748.01 (E)

147 STA. 3+10.01, 54.6' RT
PRC FLAR END SEC 12
INV = 747.90 (W)

566 STA. 4+00.00, 149.0' RT
CB TC T8G
RIM = 777.89
INV = 774.00 (W)

567 STA. 2+71.23, 54.4' RT
PRC FLAR END SEC 18
INV = 747.70 (N)

568 STA. 4+00.00, 54.0' RT
PRC FLAR END SEC 12
INV = 750.25 (E)

RAMP A

141 21'-STORM SEW CL A 1, 12" @ 0.71%
TBF=0.3 CU YD

142 23'-STORM SEW CL A 1, 12" @ 0.57%
TBF=0.3 CU YD

143 23'-STORM SEW CL A 1, 12" @ 0.48%
TBF=0.3 CU YD

566 77'-STORM SEW CL A 1, 12" @ 25.27%
2-R C PIPE ELBOW 12
3-CONCRETE ANCHOR
SEE SHEET 359 FOR SLOPE DRAIN DETAILS.
TBF=0.0 CU YD

567 14'-STORM SEW CL A 1, 18" @ 3.06%
TBF=0.0 CU YD

U22 42'-PIPE UNDERDRAIN, 4"

U25 33'-PIPE UNDERDRAIN, 4"

RAMP B

350 STA. 10+19.00, 22.0' LT
CB TA 4 DIA T20F&G
RIM = 758.18
INV = 753.74 (E)
INV = 753.00 (S)

351 STA. 10+19.00, 8.2' RT
CB TA TA 4 DIA T20F&G
RIM = 757.88
INV = 753.88 (W)
INV = 754.38 (4" S)

542 STA. 13+50.00, 16.0' RT
CB TC T24F&G
RIM = 750.08
INV = 747.26 (N)

350 31'-STORM SEW CL A 1, 12" @ 0.45%
TBF=4.1 CU YD

351 54'-STORM SEW CL A 2, 12" @ 0.93%
TBF=20.1 CU YD

U18 39'-PIPE UNDERDRAIN, 4"

RAMP D

138 STA. 10+65.00, 2.1' RT
CB TC T24F&G
RIM = 774.34
INV = 771.34 (W)
INV = 771.34 (4" E)

139 STA. 10+65.00, 27.8' RT
PRC FLAR END SEC 12
INV = 771.22 (E)

HW1 STA. 13+65.00, 45.0' RT
CONC HDWL FOR P DRAIN
INV = 758.71

138 18'-STORM SEW CL A 1, 12" @ 0.67%
TBF=0.3 CU YD

U23 38'-PIPE UNDERDRAIN, 4"

U26 27'-PIPE UNDERDRAIN, 4"

EXISTING STRUCTURES

EX1 STA. 138+15.00, 159.3' RT
EXISTING CATCH BASIN
RIM = 761.53

EX2 STA. 137+23.00, 193.0' LT
EXISTING END SECTION
INV = 753.00

RAMP C

346 STA. 6+22.00, 8.5' RT
MAN TA 4 DIA T20F&G
RIM = 764.09
INV = 759.70 (SE)
INV = 757.70 (S)
INV = 760.59 (4" S)

347 STA. 6+33.00, 22.5' LT
CB TA 4 DIA T20F&G
RIM = 764.69
INV = 760.00 (NW)

348 STA. 6+22.00, 27.0' RT
CB TA 4 DIA T1F CL
RIM = 748.33
INV = 742.50 (S)
INV = 740.50 (N)

498 STA. 3+70.00, 45.0' RT
PRC FLAR END SEC 12
INV = 737.50 (S)

499 STA. 4+50.23, 67.9' RT
PRC FLAR END SEC 12
INV = 737.10 (N)

503 STA. 4+20.00, 35.0' LT
MAN TA 8 DIA T1F CL
RIM = 755.25
INV = 742.78 (W)
INV = 740.78 (N)
INV = 740.78 (S)

503A STA. 4+20.00, 8.0' RT
CB TA 4 DIA T20F&G
RIM = 756.49
INV = 744.53 (E)

346 33'-STORM SEW CL A 1, 12" @ 0.91%
TBF=5.4 CU YD

347 81'-STORM SEW CL A 2, 12" @ 1.86%
TBF=69.3 CU YD

348 39'-STORM SEW CL A 2, 12" @ 8.41%
TBF=0.0 CU YD

499 72'-STORM SEW CL A 2, 12" @ 0.56%
TBF=0.0 CU YD

502 36'-STORM SEW CL A 3, 12" @ 4.86%
TBF=44.2 CU YD

517 51'-STORM SEW CL A 2, 36" @ 1.53%
TBF=0.0 CU YD

554 81'-STORM SEW CL A 2, 12" @ 6.79%
TBF=0.0 CU YD

555 32'-STORM SEW CL A 1, 12" @ 0.31%
TBF=2.1 CU YD

U17 50'-PIPE UNDERDRAIN, 4"

RAMP C

517 STA. 4+82.50, 35.0' LT
PRC FLAR END SEC 36
W/GRATING
INV = 740.00 (N)

555 STA. 5+39.00, 27.0' RT
PRC FLAR END SEC 12
INV = 737.12

565 STA. 5+79.00, 27.0' RT
CB TA 4 DIA T8G
RIM = 740.00
INV = 737.22 (N)
INV = 737.22 (S)

ILLINOIS ROUTE 31
RAMP A
RAMP B
RAMP C
RAMP D

FILE NAME = ...\\D160F72-sht-drp1n-06.dgn	USER NAME = ctb	DESIGNED - DTE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE AND UTILITIES PLAN			O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - DTE	REVISED -		SCALE: 1" = 50'	SHEET NO. 6 OF 15 SHEETS	STA. 99+00	TO STA. 112+00	0003	18A-2	MCHENRY	825	182
		PLOT SCALE = 100.0000' / in.	CHECKED - GAB		REVISED -				CONTRACT NO. 60F72				
		PLOT DATE = 5/2/2012	DATE - 5/3/2012		REVISED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							