

04-25-14 LETTING ITEM 084

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 778 (IL 34)
SECTION D9 SAFETY 2014-1
PROJECT ACHSIP - 0778 (010)
SAFETY IMPROVEMENT
SALINE, POPE, & HARDIN COUNTIES

C-99-016-14

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	D9 SAFETY 2014-1	VARIOUS	11	1
		ILLINOIS	CONTRACT NO. 78395	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

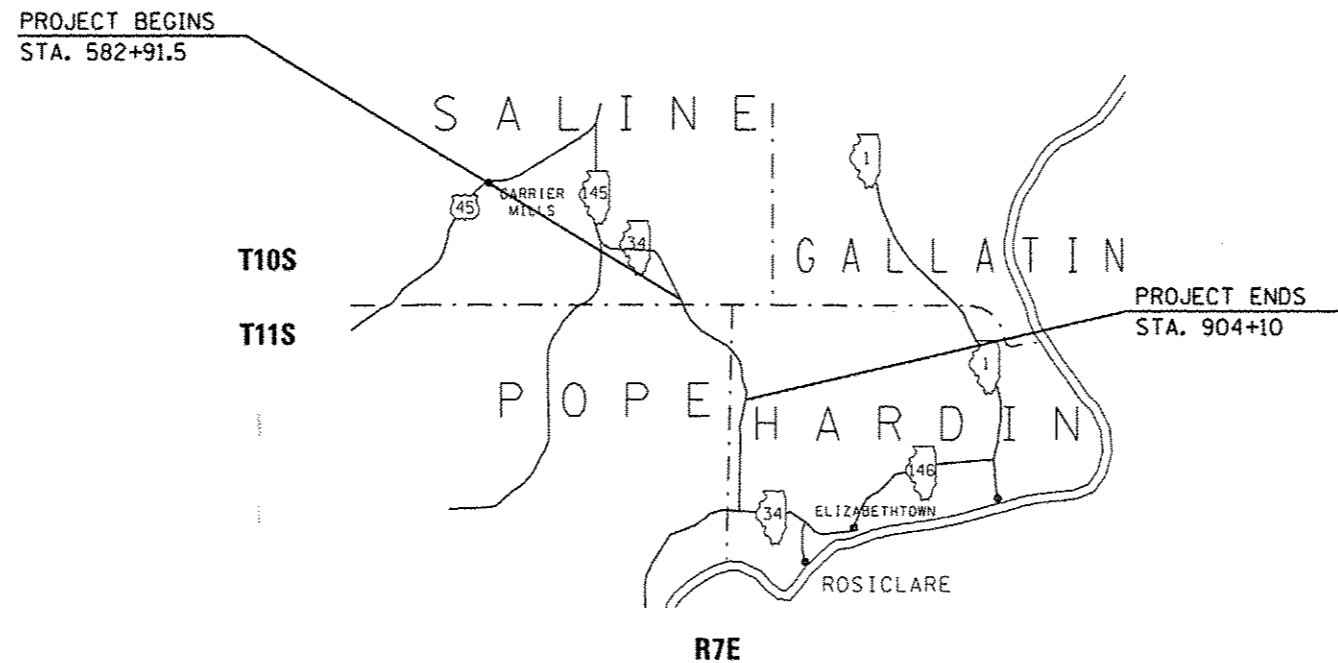
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4-5

TRAFFIC DATA

IL 34 TRAFFIC DATA
2011 ADT = 2,850 WITH 40.4% TRUCKS

TOWNSHIPS

MOUNTAIN, GRAND PIER, WEST MONROE



MAP NOT TO SCALE

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: SUSAN POE
DESIGNER: JAY KRANZ

CONTRACT NO. 78395

GROSS LENGTH = 32,376.5 FT. = 6.13 MILE
NET LENGTH = 30,563.5 FT. = 5.79 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Jan 28 20 14

Debra S. Keim
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 21 20 14
John D. Baranzelli, PE, EIT
acting ENGINEER OF DESIGN AND ENVIRONMENT

March 21 20 14
Omer Osman, PE, EIT
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

ALL HOT- MIX ASPHALT	2.016 TONS/CU. YD.
ALL AGGREGATE	2.05 TONS/CU. YD.
BITUMINOUS MATERIALS:	
ON PAVEMENT	0.09 GAL./SQ. YD.
ON AGGREGATE SURFACE	0.32 GAL./SQ. YD.
AGGREGATE (PRIME COAT)	0.0015 TONS/SQ. YD.
RIPRAP	1.50 TONS/CU. YD.

THE ALGEBRAIC DIFFERENCE BETWEEN THE PAVEMENT AND SHOULDER SLOPES SHALL NOT EXCEED 8%. THE SHOULDER ON THE OUTSIDE OF SUPERELEVATED CURVES SHALL BE FLATTENED ACCORDINGLY.

STATIONING SHOWN IN THE SCHEDULES IS BASED ON STAMPED STATIONS IN THE EXISTING PAVEMENT AND FROM OLD PLANS. MINOR ADJUSTMENTS MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.

HMA SHOULDER SHALL BE 4' WIDE THROUGH OUT THE PROJECT EXCEPT IN LOCATIONS THAT THE EXISTING SHOULDER IS NOT WIDE ENOUGH. IN THESE LOCATIONS THE SHOULDER SHALL BE A MINIMUM OF 3' WIDE, THE SHOULDER SHALL BE AS WIDE AS POSSIBLE UP TO 4' WIDE. THESE LOCATIONS WILL BE DETERMINED BY THE ENGINEER. NO EXTRA COMPENSATION WILL BE GIVEN FOR THE VARYING WIDTH. THE HMA SHOULDER WILL BE PAID FOR BY THE SQ YD.

THE EXCAVATED AGGREGATE/EARTH FOR THE PROPOSED SHOULDER SHALL BE WASTED ON THE SHOULDER AND GRADED BACK TO THE EDGE OF THE PROPOSED SHOULDER. DO NOT PLACE WASTE MATERIAL ONTO EXISTING ENTRANCES, SIDE ROADS, OR ON MAINTAINED LAWNS. THE GRADING OF THE WASTE MATERIAL WILL BE PAID FOR AS GRADING AND SHAPING SHOULDERS. THERE ARE NO AVAILABLE WASTE SITES ON THE EXISTING RIGHT OF WAY WITHIN THE PROJECT LIMITS. ANY DISPOSAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.

LOCATIONS FOR THE STONE DUMPED RIPRAP ARE GIVEN IN THE SCHEDULE. THE LENGTH AND WIDTH OF THE AREA FOR THE RIPRAP WILL BE DETERMINED BY THE ENGINEER.

COMMITMENTS

NONE

MIXTURE REQUIREMENTS

LOCATION(S):	HOT-MIX ASPHALT SHOULDERS
MIXTURE USE(S):	HOT-MIX ASPHALT BINDER COURSE, N90, IL-19.0MM, FINE GRADE
AC/PG:	PG64-22
ABR% (MAX):	SEE SPECIAL PROVISION
DESIGN AIR VOIDS:	4.0%, 90 GYRATION DESIGN
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-19.0MM FINE GRADE
FRICTION AGGREGATE:	NONE

FILE NAME =	USER NAME = kranzjo	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES, MIXTURE REQUIREMENTS, COMMITMENTS	F.A.P. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
o:\pau_vork\pau\dot\kranzjo\0308240\783	zehr-plan.dgn	DRAWN -	REVISED -			778	D9 SAFETY 2014-1	VARIOUS	11	3
Default	PLOT SCALE = 94.4444' / 1"	CHECKED -	REVISED -			SCALE: SHEET OF SHEETS STA. TO STA.		CONTRACT NO. 78395		
	PLOT DATE = 1/26/2014	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

FUNDING:	90% FED 10% STATE HSIP
LOCATION:	RURAL
ROUTE:	[L 34 (FAP 778)]

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	SAFETY		
				SALINE 0021	POPE 0021	HARDIN 0021
28100805	STONE DUMPED RIPRAP, CLASS A3	TON	848		359	489
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	8655	294	4937	3424
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SO YD	27047	918	15429	10700
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	1600		1600	
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4		4	
63200310	GUARDRAIL REMOVAL	FOOT	1584		1584	
63301210	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	1195	169	280	746
63301990	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 1	EACH	17	2	3	12
64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	60856	2066	34716	24074
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	1	1	1
67100100	MOBILIZATION	L SUM	1	0.2	0.4	0.4
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	0.2	0.4	0.4
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	1	0.5		0.5
* 72000100	SIGN PANEL - TYPE 1	SO FT	414	18	222	174

* SPECIALTY ITEM

FILE NAME =	USER NAME = kranzjd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES 1 OF 2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
o:\pawork\pawork\kranzjd\03682401783	shhlpian.dgn	DRAWN -	REVISED -			778	D9 SAFETY 2014-1	VARIOUS	11	4	
Defaults	PLOT SCALE = 94.4444 1/4 in.	CHECKED -	REVISED -			SCALE: SHEET OF SHEETS STA. TO STA.					
	PLOT DATE = 1/28/2014	DATE -	REVISED -			ILLINOIS FED. AID PROJECT CONTRACT NO. 78395					

SUMMARY OF QUANTITIES - CONT

		FUNDING:	90% FED 10% STATE HSIP			
		LOCATION:	RURAL			
		ROUTE:	IL 34 (FAP 778)			
CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	SALINE	POPE	HARDIN
				SAFETY 0021	SAFETY 0021	SAFETY 0021
* 72900100	METAL POST - TYPE A	FOOT	1932	84	1036	812
78200420	GUARDRAIL MARKERS, TYPE B	EACH	22		22	
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4		4	
X2020110	GRADING AND SHAPING SHOULDERS	UNIT	611	21	348	242

*

4

* SPECIALTY ITEM

SHOULDER SCHEDULE

LOCATION STA TO STA	HMA SHOULDERS 8"	BITUMINOUS MATERIALS (PRIME COAT)	SHOULDER RUMBLE STRIPS, 8 INCH	GRADING AND SHAPING SHOULDERS
	SQ YD	GALLON	FOOT	UNIT
STA. 583+16.00 TO STA. 585+00.00 BK	163.6	52.4	368.0	4.0
STA. 585+02.63 AH TO STA. 592+45.90 BK	660.7	211.4	1,487.0	15.0
STA. 592+44.47 AH TO STA. 593+50.00	93.8	30.0	211.0	2.0
SALINE CO TOTALS				
	918.1	293.8	2,066.0	21.0
STA. 593+50.00 TO STA. 612+55.10 BK	1,693.4	541.9	3,810.0	38.0
STA. 612+61.10 AH TO STA. 625+90.68 BK	1,181.8	378.2	2,659.0	27.0
STA. 625+85.58 AH TO STA. 626+10.82 BK	22.4	7.2	50.0	1.0
LT STA. 626+07.79 AH TO STA. 634+08.00	355.6	113.8	800.0	8.0
RT STA. 626+07.79 AH TO STA. 634+24.00	362.8	116.1	816.0	8.0
SN 076-2007 OMISSION				
STA. 637+12.00 TO STA. 650+12.80 BK	1,156.3	370.0	2,602.0	26.0
STA. 650+09.34 AH TO STA. 664+03.96 BK	1,239.7	396.7	2,789.0	28.0
LT STA. 663+95.25 AH TO STA. 692+01.00	1,247.0	399.0	2,806.0	28.0
RT STA. 663+95.25 AH TO STA. 692+20.00	1,255.4	401.7	2,825.0	28.0
SN 076-0001 OMISSION				
RT STA. 694+96.00 TO STA. 701+69.00	299.1	95.7	673.0	7.0
LT STA. 695+98.00 TO STA. 701+69.00	253.8	81.2	571.0	6.0
RT STA. 701+69.00 TO STA. 702+61.00	40.9	13.1	92.0	1.0
LT STA. 701+69.00 TO STA. 702+81.00	49.8	15.9	112.0	1.0
SN 076-2006 OMISSION				
RT STA. 706+82.00 TO STA. 724+82.90 BK	800.4	256.1	1,801.0	18.0
LT STA. 707+55.00 TO STA. 724+82.90 BK	768.0	245.8	1,728.0	17.0
STA. 724+85.46 AH TO STA. 748+51.90 BK	2,103.5	673.1	4,733.0	47.0
STA. 748+54.52 AH TO STA. 771+94.00 BK	2,079.5	665.4	4,679.0	47.0
STA. 771+94.76 AH TO STA. 777+79.60	519.9	166.4	1,170.0	12.0
POPE CO TOTALS				
	15,429.3	4,937.3	34,716.0	348.0
STA. 777+79.60 TO STA. 783+09.00	470.6	150.6	1,059.0	11.0
SN 035-0004 OMISSION				
STA. 784+61.00 TO STA. 790+00.00 BK	479.1	153.3	1,078.0	11.0
STA. 789+97.80 AH TO STA. 798+47.89 BK	755.6	241.8	1,700.0	17.0
STA. 798+52.22 AH TO STA. 804+48.00	529.6	169.5	1,192.0	12.0
SN 035-0005 OMISSION				
STA. 807+74.00 TO STA. 810+00.00 BK	200.9	64.3	452.0	5.0
STA. 810+06.37 AH TO STA. 818+55.20 BK	754.5	241.4	1,698.0	17.0
STA. 818+48.05 AH TO STA. 829+92.39 BK	1,017.2	325.5	2,289.0	23.0
STA. 829+85.24 AH TO STA. 830+22.50 BK	33.1	10.6	75.0	1.0
STA. 830+06.00 AH TO STA. 864+17.00	3,032.0	970.2	6,822.0	68.0
SN 035-0006 OMISSION				
STA. 865+23.00 TO STA. 872+81.01 BK	673.8	215.6	1,516.0	15.0
RT STA. 872+78.52 AH TO STA. 880+13.00	326.4	104.4	734.0	7.0
LT STA. 872+78.52 AH TO STA. 880+35.00	336.2	107.6	756.0	8.0
SN 035-7025 OMISSION				
RT STA. 880+47.00 TO STA. 901+82.30 BK	949.0	303.7	2,135.0	21.0
LT STA. 880+67.00 TO STA. 901+82.30 BK	940.1	300.8	2,115.0	21.0
STA. 901+83.70 AH TO STA. 904+10.00	201.5	64.6	453.0	5.0
HARDIN CO TOTALS				
	10,699.6	3,423.9	24,074.0	242.0
PROJECT TOTAL				
	27,047.0	8,655.0	60,856.0	611.0

FILE NAME =	USER NAME = kranzjc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE - SHOULDER	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	ct:\pw_work\pwidot\kranzjc\10368340\78395-sht-plan.dgn	DRAWN -	REVISED -			778	D9 SAFETY 2014-1	VARIOUS	11	7	
	PLOT SCALE = 94.4444' / 1" =	CHECKED -	REVISED -			SCALE: SHEET OF SHEETS STA. TO STA.		CONTRACT NO. 78395			
	PLOT DATE = 1/28/2014	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

RIPRAP SCHEDULE

LOCATION STA TO STA	STONE DUMPED RIPRAP, CLASS A3 TON
SALINE CO TOTALS	0.0
LT STA. 648+60.00	55.6
LT STA. 652+00.00	283.3
RT STA. 693+00.00	20.1
POPE CO TOTALS	359.0
LT STA. 782+50.00	50.0
RT STA. 783+20.00	160.0
LT STA. 784+75.00	125.0
RT STA. 785+60.00	41.7
LT STA. 785+80.00	86.7
LT STA. 786+40.00	25.6
HARDIN CO TOTALS	489.0
PROJECT TOTAL	848.0

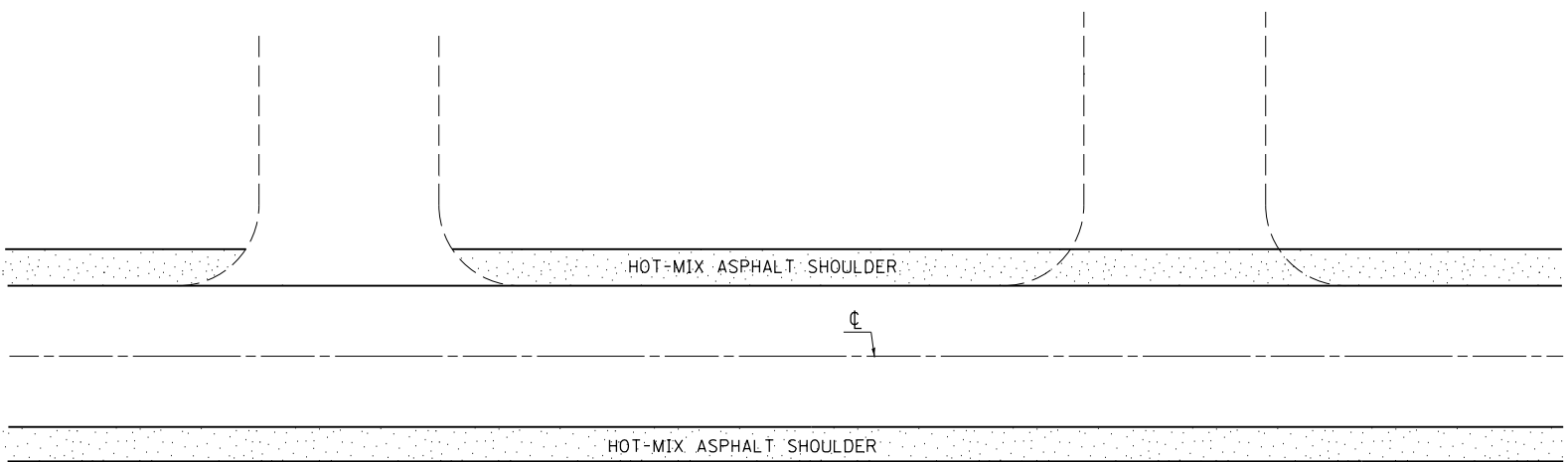
GUARDRAIL SCHEDULE

LOCATION STA TO STA	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS FOOT	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT EACH	GUARDRAIL REMOVAL FOOT	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A FOOT	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 1 EACH	GUARDRAIL MARKERS, TYPE B EACH	TERMINAL MARKER - DIRECT APPLIED EACH
RT STA. 583+16.00 TO STA. 583+64.00					1.0		
LT STA. 583+16.00 TO STA. 585+35.00				169.0	1.0		
SALINE CO TOTALS	0.0	0.0	0.0	169.0	2.0	0.0	0.0
RT STA. 632+08.00 TO STA. 634+24.00				166.0	1.0		
LT STA. 647+40.00 TO STA. 659+28.00	1,088.0	2.0	1,188.0			15.0	2.0
RT STA. 647+40.00 TO STA. 653+52.00	512.0	2.0				7.0	2.0
RT STA. 649+56.00 TO STA. 653+52.00			396.0				
RT STA. 690+56.00 TO STA. 692+20.00				114.0	1.0		
LT STA. 691+75.00 TO STA. 692+01.00					1.0		
POPE CO TOTALS	1,600.0	4.0	1,584.0	280.0	3.0	22.0	4.0
LT STA. 782+14.00 TO STA. 783+09.00				45.0	1.0		
RT STA. 782+14.00 TO STA. 783+09.00				45.0	1.0		
LT STA. 784+61.00 TO STA. 785+54.00				43.0	1.0		
RT STA. 784+61.00 TO STA. 785+54.00				43.0	1.0		
LT STA. 863+20.00 TO STA. 864+17.00				47.0	1.0		
RT STA. 863+39.00 TO STA. 864+17.00				28.0	1.0		
LT STA. 865+23.00 TO STA. 865+66.00					1.0		
RT STA. 865+23.00 TO STA. 866+15.00				42.0	1.0		
RT STA. 876+93.00 TO STA. 880+13.00				270.0	1.0		
LT STA. 880+13.00 TO STA. 880+35.00					1.0		
RT STA. 880+47.00 TO STA. 880+97.00					1.0		
LT STA. 880+67.00 TO STA. 883+00.00				183.0	1.0		
HARDIN CO TOTALS	0.0	0.0	0.0	746.0	12.0	0.0	0.0
PROJECT TOTAL	1,600.0	4.0	1,584.0	1,195.0	17.0	22.0	4.0

ENTRANCE AND SIDE ROAD DETAILS

CONCRETE OR HMA ENTRANCES & SIDE ROADS

AGGREGATE ENTRANCES & SIDEROADS



GENERAL NOTES

CONSTRUCT HOT-MIX ASPHALT SHOULDER THROUGH AGGREGATE ENTRANCE OR SIDE ROADS.
 IF THE ENTRANCE OR SIDE ROAD IS CONCRETE OR HMA THEN PLACE SHOULDER UP TO EDGE
 OF THE ENTRANCE OR SIDE ROAD PAVEMENT.

THE MATERIAL THAT IS REMOVED TO PLACE THE SHOULDER SHALL BE WASTED ON THE FORESLOPE AND
 GRADED BACK TO THE EDGE OF THE PROPOSED SHOULDER. DO NOT PLACE WASTE MATERIAL ONTO EXISTING
 ENTRANCES, SIDE ROADS, OR ON MAINTAINED LAWNS.

FILE NAME = c:\pw_work\pwidot\kranzjc\d0368340\78395	USER NAME = kranzjc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL - ENTRANCE AND SIDE ROAD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	5-sh1-pln.dgn	DRAWN -	REVISED -			778	D9 SAFETY 2014-1	VARIOUS	11	11
Default	PLOT SCALE = 94.4444' / 1" =	CHECKED -	REVISED -	SCALE:	SHEET OF SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		
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