

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

FAP ROUTE 614 (IL 78)  
SECTION (146)RS-4

RESURFACING (3P)  
CASS COUNTY

C-96-001-13

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6684	(146)RS-4	CASS	28	1
		ILLINOIS	CONTRACT NO. 72F70	

D-96-001-13



**FOR INDEX OF SHEETS, SEE SHEET NO. 1**

- 1 COVER SHEET
- 2 GENERAL NOTES
- 3-4 SUMMARY OF QUANTITIES
- 5-6 SCHEDULE OF QUANTITIES
- 7-8 TYPICAL SECTIONS
- 9-23 PLAN SHEETS
- 24-28 DISTRICT DETAILS

FUNCTIONAL CLASS: MINOR ARTERIAL  
PROJECTED 2033: 1800  
ADT (2013): 1500  
PV = 88%  
SU = 5.8%  
MU = 6.2%

**STA EQUATION:**

STA 1039 + 14.56 BK =  
STA 17 + 05.91 AH

**STA EQUATION:**

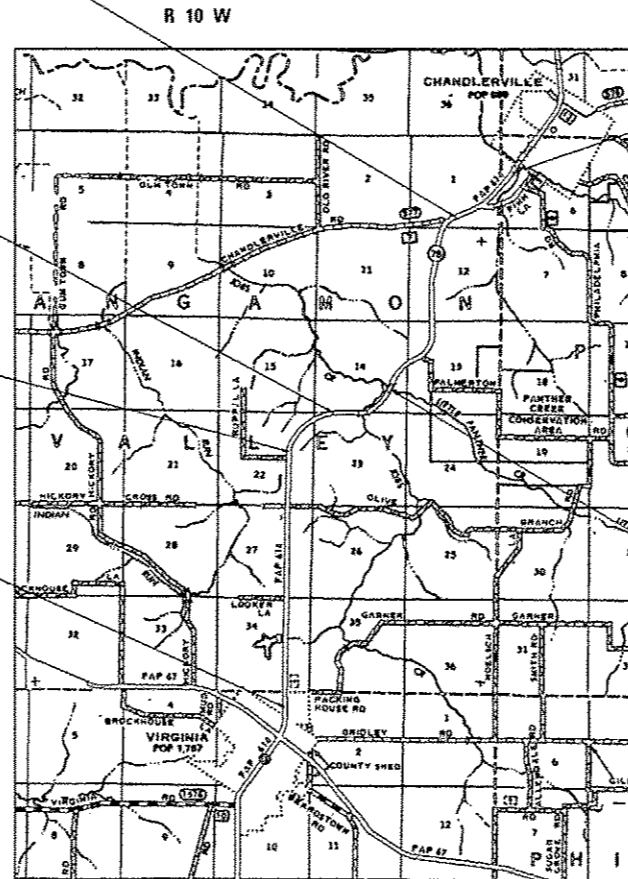
STA 187 + 34.74 BK =  
STA 181 + 09.77 AH

**STA EQUATION:**

STA 206 + 38.90 BK =  
STA 206 + 10.30 AH

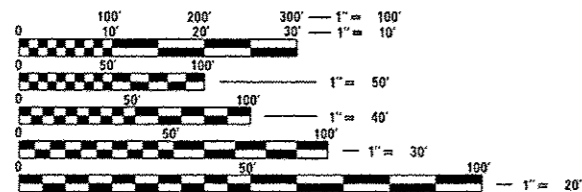
**END IMPROVEMENT**

STA 365 + 00



**BEGIN IMPROVEMENT**  
STA 1003 + 50

**BRIDGE OMISSION**  
STA. 136 + 93.20-138 + 51.20  
SN. 009-0013



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

SENIOR TEAM ENGINEER: VINCE MADONIA (217)785-9046  
TEAM ENGINEER: VICTOR YOUNG (217)524-0472

GROSS LENGTH = 39,012.22 FT. = 7.39 MILE  
NET LENGTH = 38,854.4 FT. = 7.35 MILE

CONTRACT NO. 72F70

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED June 6 2014  
Roger L. DiStefano  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

June 27 2014  
John D. Baranzelli PE  
ENGINEER OF DESIGN AND ENVIRONMENT

June 27 2014  
Omer Osman PE  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**

GENERAL NOTES:

- 1 ALL ELEVATIONS SHOWN IN THE PLANS ARE U. S. G. S MEAN SEA LEVEL DATUM
- 2 ANY REFERENCE TO THE STANDARDS THROUGHOUT THE PLANS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE DEPARTMENT AS INCLUDED IN THE PLANS.
- 3 THE LOCATION OF THOSE BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.26 OF THE STANDARD SPECIFICATIONS. THE J. U. L. I. E. NUMBER IS ( 800) 892-0123. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED. SEE SPECIAL PROVISIONS FOR STATUS OF UTILITIES, WITH UTILITY COMPANIES LISTED.
- 4 THE EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. AFTER THE CONSTRUCTION IS COMPLETE, THE CONTRACTOR SHALL REPLACE THE SIGNS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT CONSIDERED INCLUDED IN THE CONTRACT UNIT BID PRICES.
- 5 ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH THE CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF RIGHT-OF-WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT BID PRICE FOR EARTH EXCAVATION. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 6 THE FOLLOWING APPLICATION RATETS WERE USED FOR QUANTITY CALCULATIONS:
 

LEVELING BINDER	0.056TON/SQ YD • IN
BIT. CONC. SURF. CSE	0.056TON/SQ YD • IN
AGG. SHLDS./BASE CSE.	2.05 TON/ CU YD
BIT. MATLS. (P.C.)	0.00038 TON/ SQ YD
AGG. (P.C.)	0.001425 TON/SQ YD
AG LIMESTONE	2 TON/ ACRE
NITROGEN	90 LB/ACRE
PHOSPHORUS	90 LB/ACRE
POTASSIUM	90 LB/ACRE
MULCH, METHOD 2	2 TON/ACRE
- 7 ACCESS TO ALL PROPERTIES SHALL BE MAINTAINED DURING CONSTRUCTION ACTIVITIES. WHEN UNAVOIDABLE, REASONABLE PARKING SHALL BE PROVIDED FOR TGOSE PROPERTIES WHICH ARE TEMPORARILY UNACCESSIBLE.
- 8 THE DISTRICT BUREAU OF OPERATIONS SHALL BE NOTIFIED AT LEAST 14 DAYS PRIOR TO PLACEMENT OF FINAL PAVEMENT MARKINGS

STANDARDS:

000001-06	701201-04	701901-03
001001-02	701301-04	780001-04
406201-01	701306-03	781001-03
442201-03	701311-03	
482011-03	701501-06	

COMMITMENTS

COMMITMENTS ARE NOT TO BE ALTERED WITHOUT THE WRITTEN APPROVAL OF ALL PARTIES TO WHICH THE COMMENTS WERE MADE.

1. THE RESIDENT ENGINEER SHALL CONTACT STUDIES AND PLANS CONCERNING ANY MAJOR PLAN CHANGES.
2. INFORMATIONAL LETTER TO VIRGINIA

DISTRICT SIX	
EXAMINED <u>10/11</u>	20 <u>12</u>
<i>Bill Boyer</i>	
OPERATIONS ENGINEER	
EXAMINED <u>OCT 10</u>	20 <u>12</u>
<i>Tommy Ford</i>	
PROJECT IMPLEMENTATION ENGINEER	
EXAMINED <u>0d.3</u>	20 <u>12</u>
<i>2RNL</i>	
PROGRAM DEVELOPMENT ENGINEER	

MIXTURE USE ( S):	HMA SURFACE	LEVELING BINDER	INCIDENTAL HMA SURFACING	PATCHING
PG	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION ( GRADATION MIXTURE )	IL 9.5	IL 9.5	IL 9.5 OR 12.5	IL 19.0 OR IL 19.0CB
FRICITION MIXTURE	MIX C	N/A	MIX C	N/A
QUALITY MANAGEMENT	OCP	OCP	.	OC/OA

\* INCIDENTAL HMA QUALITY MANAGEMENT IS OC/OA.

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				100% STATE
				ROADWAY
				0005
				S. N.
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	136	136
35800100	PREPARATION OF BASE	SO YD	500	500
35800200	AGGREGATE BASE REPAIR	TON	50	50
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	74,376	74,376
<del>40600300</del>	<del>AGGREGATE (PRIME COAT)</del>	<del>TON</del>	<del>157</del>	<del>157</del>
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	4352	4352
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	3235	3235
40600990	TEMPORARY RAMP	SO YD	320	320
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	8704	8704
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	612	612
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SO YD	28424	28424
44200144	PAVEMENT PATCHING, TYPE II, 12 INCH	SO YD	100	100
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	3476	3476
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6

FILE NAME :	USER NAME : sparkgr	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
es:\pwork\p\dot\sparkgr\0310810\06770-shi-500.dgn	DRAWN -	REVISED -	REVISED -						614	(146) RS-4	CASS	28	3
Default	PLOT SCALE = 100.0000' / 1" / 12	CHECKED -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		
	PLOT DATE = Jun-05-2014 10:50:16AM	DATE -	REVISED -										

CONSTR. CODE  
100% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY
				0005 S. N.
67100100	MOBILIZATION	L SUM	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	10640	10640
70300230	TEMPORARY PAVEMENT MARKING - LINE 5"	FOOT	95580	95580
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1478	1478
* 78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	95580	95580
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	489	489
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	489	489
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	81762	81762
∅ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOOR	500	500

\* SPECIALTY ITEM

∅ 0042

FILE NAME :	USER NAME : sperkagw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
01\pwork\pwork\perkagw\0313010\06770-4ht-500.dgn	70-4ht-500.dgn	DRAWN -	REVISED -						614	(146) RS-4	CASS	28	4
Default	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED -		CONTRACT NO. 72F70				ILLINOIS FED. AID PROJECT				
	PLOT DATE = Jun-06-2014 10:50:18AM	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.			

LOCATION		HMA SURFACE REMOVAL VAR. DEPTH	HMA SURFACE REMOVAL 2 1/4"	LEVELING BINDER MACHINE METHOD N50, 3/4"	HMA CONCRETE SURFACE COURSE, MIX C, N50, 1 1/2"	HMA SURFACE REMOVAL- BUTT JOINT	TEMPORARY RAMPS
STATION	TO STATION	SQ YD	SQ YD	TON	TON	SQ YD	SQ YD
1003+50	1003+40					29	14.4
1003+50	1039+14.56	10297.6		433	865		
STA EQUATION							
17+05.91	25+50	2438.5		103	205		
25+50	35+95		2902.8	122	244		
35+95	51+00		4013.3	169	337		
51+00	61+38	2998.7		132	252		
61+38	79+57		4850.7	204	408		
79+57	110+28	8871.8		373	745		
110+28	111+24		266.7	11	23		
111+24	116+10		1296	55	109		
116+10	122+50		1777.8	75	150		
122+50	131+53		2408	101	202		
131+53	136+93.20	1560.6		66	131		
BRIDGE							
136+93.20	137+03.20					29	14.4
138+41.20	138+51.20					29	14.4
138+51.20	155+44	4890.3		206	411		
155+44	156+20		211.1	9	18		
156+20	177+42		5658.7	238	475		
177+42	187+34.74	2867.9		121	241		
STA EQUATION							
181+09.77	206+38.90	7306.4		307	614		
STA EQUATION							
206+10.30	238+84	22457		397	795		
283+84	290+67		1821	83	166		
290+67	301+47	3120		131	262		
301+47	306+82		1486.1	63	125		
306+82	310+98	1201.8		51	101		
310+98	312+46		411.1	17	35		
312+46	317+07		1229.3	52	104		
317+07	317+40		91.7	4	8		
317+40	365+00	13751.1		578	1155		
364+90	365+00					29	14.4
ESTIMATED							
				251	523		
<b>TOTAL</b>		<b>81761.70</b>	<b>28424.30</b>	<b>4352.00</b>	<b>8704.00</b>	<b>116.00</b>	<b>57.60</b>

LOCATION			AGGREGATE WEDGE SHOULDERS TYPE B
	STATION	TO STATION	TON
LT & RT	1003+50	1039+14.56	418
STA EQUATION			
LT & RT	17+05.91	25+50	99
RT	25+50	35+95	62
LT & RT	51+00	61+38	122
LT & RT	79+57	110+28	360
LT	110+28	111+24	6
RT	116+10	122+50	38
LT & RT	131+53	136+93.20	64
BRIDGE			
LT & RT	138+51.20	155+44	199
RT	155+44	156+20	5
LT & RT	177+42	187+34.74	117
STA EQUATION			
LT & RT	181+09.77	206+38.90	297
STA EQUATION			
LT & RT	206+10.30	238+84	912
LT & RT	290+67	301+47	127
RT	301+47	306+82	32
LT & RT	306+82	310+98	49
LT	310+98	312+46	9
RT	317+07	317+40	2
LT & RT	317+40	365+00	558
<b>TOTAL</b>			<b>3476.00</b>

ENTRANCES, SIDE ROADS & MAILBOX TURNOUTS				
LOCATION	TYPE OF ENTRANCE	HMA SURFACE REMOVAL BUTT JOINT	INCIDENTAL HMA SURFACING	TEMPORARY RAMPS
(STA. LT/ RT)	(SIDE RD, CE, PE, MB)	(SQ YD)	(TON)	(SQ YD)
1010+07.97 LT	PE/MB	48.41	9.49	
1011+69.25 RT	PE/MB	55.23	10.83	
1032+16.43 LT (FINN LANE)	SIDE ROAD	193.33	37.89	83.3
1033+02.16 RT	PE	37.35	7.32	
1035+23.35 LT	PE	33.17	6.50	
1035+95.41 RT	MB	33.06	6.48	
1036+05.24 LT	PE	40.76	7.99	
1038+66.99 RT	MB	11.47	2.25	
18+11.37 LT	PE	11.37	2.23	
19+85.04 RT	PE	39.24	7.69	
21+48.14 LT	PE	34.78	6.82	
23+83.49 RT	PE/MB	56.41	11.06	
24+90.03 RT	PE	42.24	8.28	
25+11.12 LT	PE	42.92	8.41	
26+92 LT	PE	33.69	6.60	
28+07 LT	PE	52.73	10.34	
30+87.27 RT (CHANDLERVILLE RD)	SIDE ROAD	218.05	42.74	61.11
45+91.81 LT	CE	34.80	6.82	
50+67.30 LT	CE	50.84	9.96	
61+26.44 RT	PE	42.62	8.35	
65++30.35 RT	PE/MB	50.29	9.86	
79+16.08 LT	PE/MB	48.67	9.54	
81+57.89 LT	PE	32.11	6.29	
94+29.79 RT	PE/MB	48.78	9.56	
95+63.97 RT	CE	33.77	6.62	
96+98.22 RT	CE	37.31	7.31	
101+64.35 LT	PE/MB	54.69	10.72	
110+77.86 LT (PALMERTON RD)	SIDE ROAD	51.70	10.13	13.3
123+35.94 RT	PE	60.37	11.83	
129+32 RT	PE	31.94	6.26	
133+78 LT	PE	64.71	12.68	
152+88 RT	CE	53.08	10.40	
156+54 RT	PE/MB	53.34	10.45	
166+57.63 RT	PE/MB	48.93	9.59	
187+26.80 RT	PE/MB	50.40	9.88	
232+49.36 RT	PE/MB	53.44	10.47	
236+51.35 LT (OLIVE BRANCH RD)	SIDE ROAD	67.85	13.30	13.3
236+57.50 RT (OLIVE BRANCH RD)	SIDE ROAD	37.18	7.29	13.3
242+52.91 RT	PE/MB	49.10	9.62	
251+62.66 LT	PE	39.20	7.68	
253+00.49 LT	PE	35.44	6.95	
253+11.83 RT	MB	32.67	6.40	
256+35.24 RT	MB	50.08	9.82	
289+45.77 RT (LOOKER LANE)	SIDE ROAD	47.70	9.35	22.2
293+71.27 LT	PE/MB	55.22	10.82	
297+19.81 RT	PE/MB	48.63	9.53	
307+44.16 LT	PE/MB	55.49	10.88	
307+40.04 RT	PE/MB	58.50	11.47	
312+96.57 RT	PE	41.15	8.07	
315+74.02 LT	PE/MB	53.49	10.48	
317+26.57 RT	PE	42.88	8.40	
324+34.57 LT	PE	37.36	7.32	
326+31.12 LT	PE	30.81	6.04	
330+91.01 LT	PE	42.82	8.39	
342+07.49 LT (GRANER ROAD)	SIDE ROAD	58.23	11.41	22.2
348+95.55 LT (REDBUD ROAD)	SIDE ROAD	87.10	17.07	33.3
357+67.18 RT	PE	42.69	8.37	
358+52.71 LT	PE	76.64	15.02	
358+96.41 RT	PE	54.25	10.63	
361+40.04 RT	PE	51.23	10.04	
362+80.70 RT	PE	37.52	7.35	
TOTAL		3119.23	611.37	262.01

ESTIMATED QUANTITIES FOR SIDEROADS / ENTRANCES*		
ITEM	QUANTITY	UNIT
PREPARATION OF BASE	500	SQ YD
AGGREGATE BASE REPAIR	50	TONS

\* THESE QUANTITIES ARE ESTIMATED AND MAY BE INCREASED, DECREASED, OR DELETED AS DETERMINED BY THE ENGINEER WITHOUT ANY ADDITIONAL COMPENSATION TO THE CONTRACTOR.

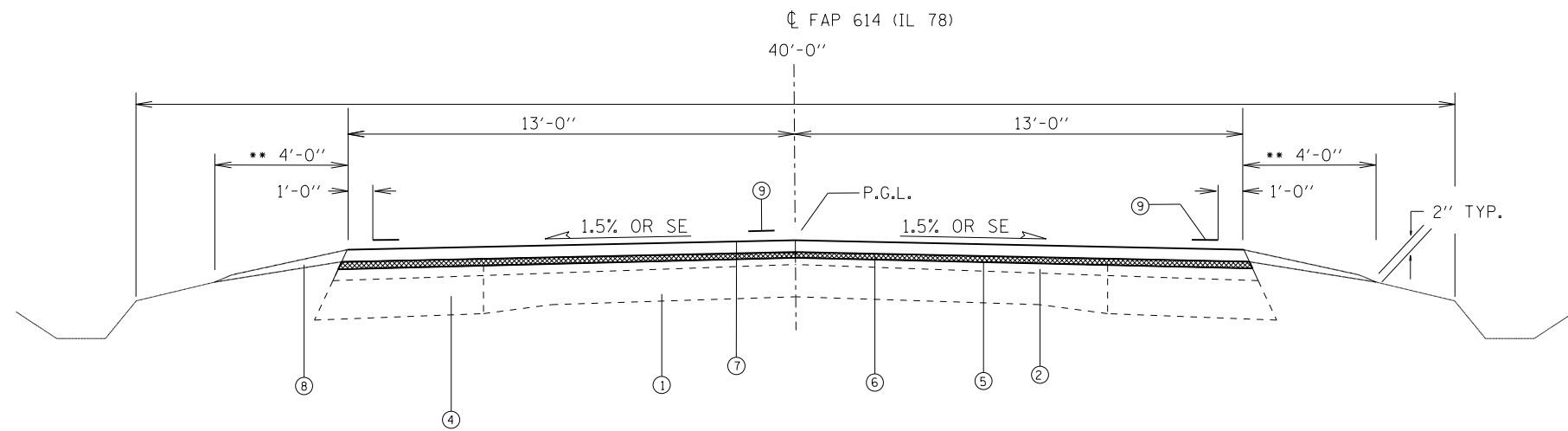
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	PLOT DATE = Jun-06-2014 10:51:29AM	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	(146)RS-4	CASS	28	6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72F70	



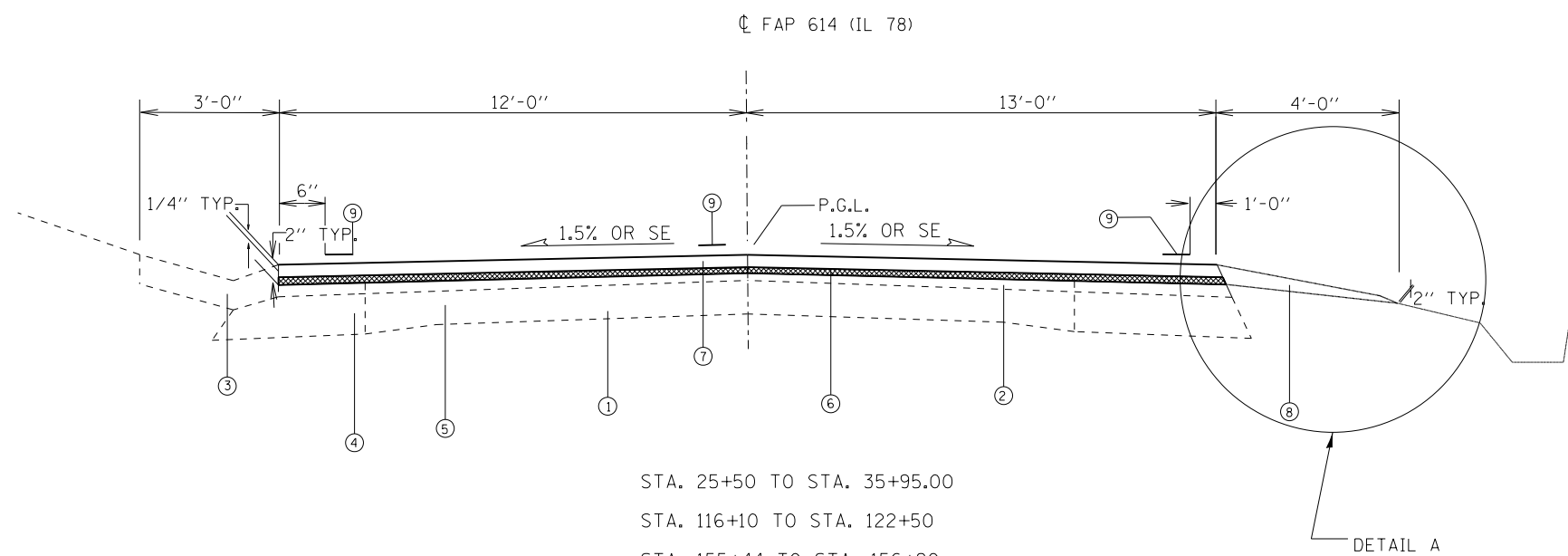
STA. 1003+50 TO STA. 1039+14.56  
 STA. EQN. 1039+14.56 BK = 17+05.91 AH  
 STA. 17+05.91 TO STA. 25+50  
 STA. 51+00 TO STA. 61+38  
 STA. 79+57 TO STA. 110+28  
 STA. 131+53 TO 136+93.20  
 STA. 138+51.20 TO STA. 155+44  
 STA. 177+42 TO STA. 187+34.74

STA. EQN. 187+34.74 BK = 181+09.77 AH  
 STA. 181+09.77 TO STA. 206+38.90  
 STA. EQN. 206+38.90 BK = 206+10.30 AH  
 STA. 206+10.30 TO STA. 238+84  
 STA. 290+67 TO STA. 301+47  
 STA. 306+82 TO STA. 310+98  
 STA. 317+40 TO STA. 365+00

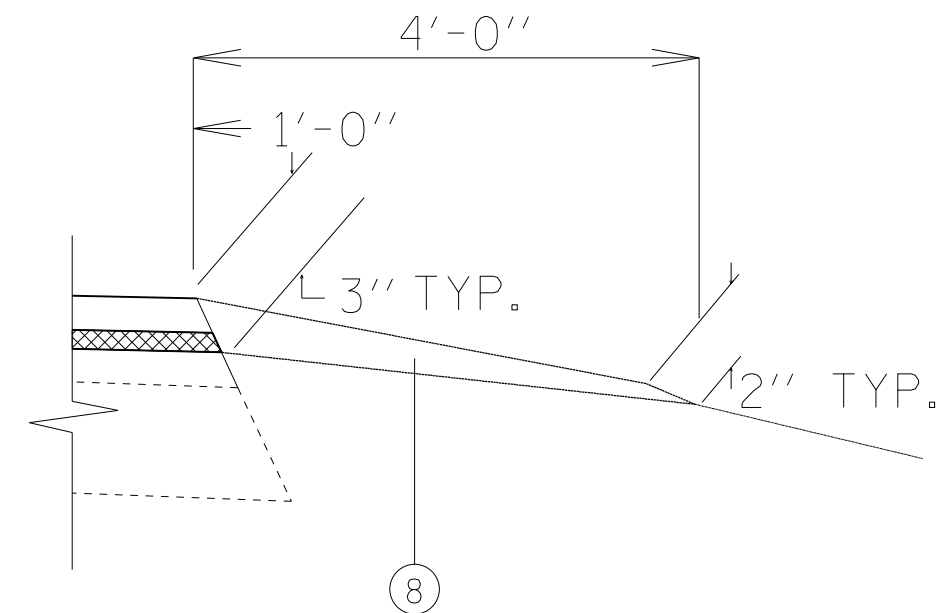
\* 1003+50 TO 135+00 - 3 1/2"  
 135+00 TO 137+00 - 5 3/4"  
 137+80.10 TO 211+00 - 3 1/2"  
 211+00 TO 365+00 - 7 1/2"

**LEGEND:**

- ① EX. P.C.C. PAVEMENT (9-6-9)
- ② EX. BITUMINOUS OVERLAY \*
- ③ EXISTING CONC. GUTTER
- ④ EX. BASE COURSE WIDENING 9"
- ⑤ PR. HOT-MIX ASPHALT SURFACE REMOVAL (VAR. DEPTH) - 3/4" AVG @ CL IN NON-GUTTER AREAS - 2 1/4" IN GUTTER AREAS
- ⑥ PR. BITUMINOUS LEVEL BINDER (MACHINE METHOD), N50 (3/4 IN AVG)
- ⑦ PR. HOT-MIX ASPHALT CONCRETE SURFACE COURSE, MIX C. N50 - 1 1/2"
- ⑧ PR. AGGREGATE WEDGE SHOULDERS, TYPE B
- ⑨ PR. PAVEMENT MARKING, LINE 5"

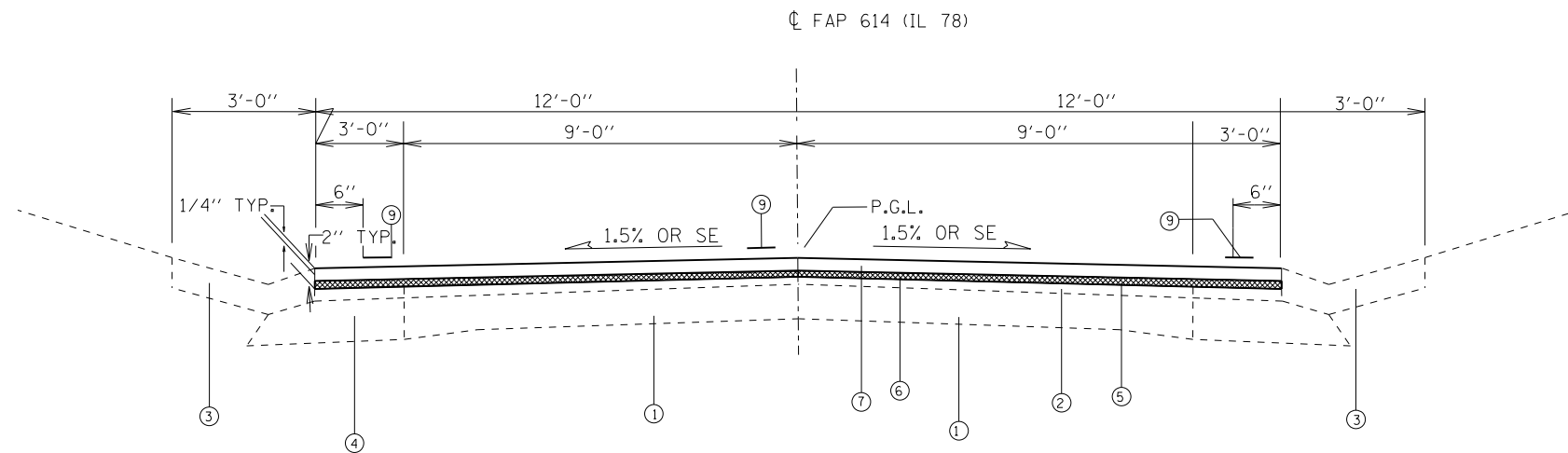


STA. 25+50 TO STA. 35+95.00  
 STA. 116+10 TO STA. 122+50  
 STA. 155+44 TO STA. 156+20  
 STA. 301+47 TO STA. 306+82  
 STA. 317+07 TO STA. 317+40

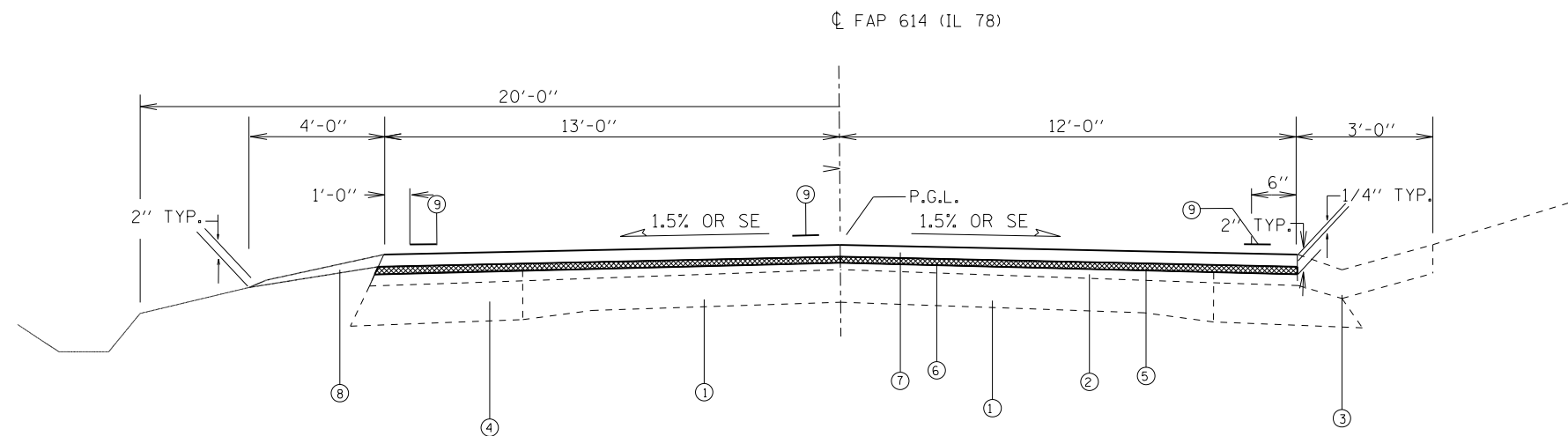


DETAIL "A"

FILE NAME =	USER NAME = sparksgw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL SECTION</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw\work\p\idot\sparksgw\10313810\0672\20-sh-typical.dgn		DRAWN -	REVISED -		614	(146)RS-4	CASS	28	7			
PLOT SCALE = 100.0000' / in.		CHECKED -	REVISED -		CONTRACT NO. 72F70							
PLOT DATE = Jun-06-2014 10:51:34AM		DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT



STA. 35+95 TO STA. 51+00  
 STA. 61+38 TO STA. 79+57  
 STA. 111+24 TO STA. 116+10  
 STA. 122+50 TO STA. 131+53  
 STA. 156+20 TO STA. 177+42  
 STA. 283+84 TO STA. 290+67  
 STA. 312+46 TO STA. 317+07



STA. 110+28 TO STA. 111+24  
 STA. 310+98 TO STA. 312+46

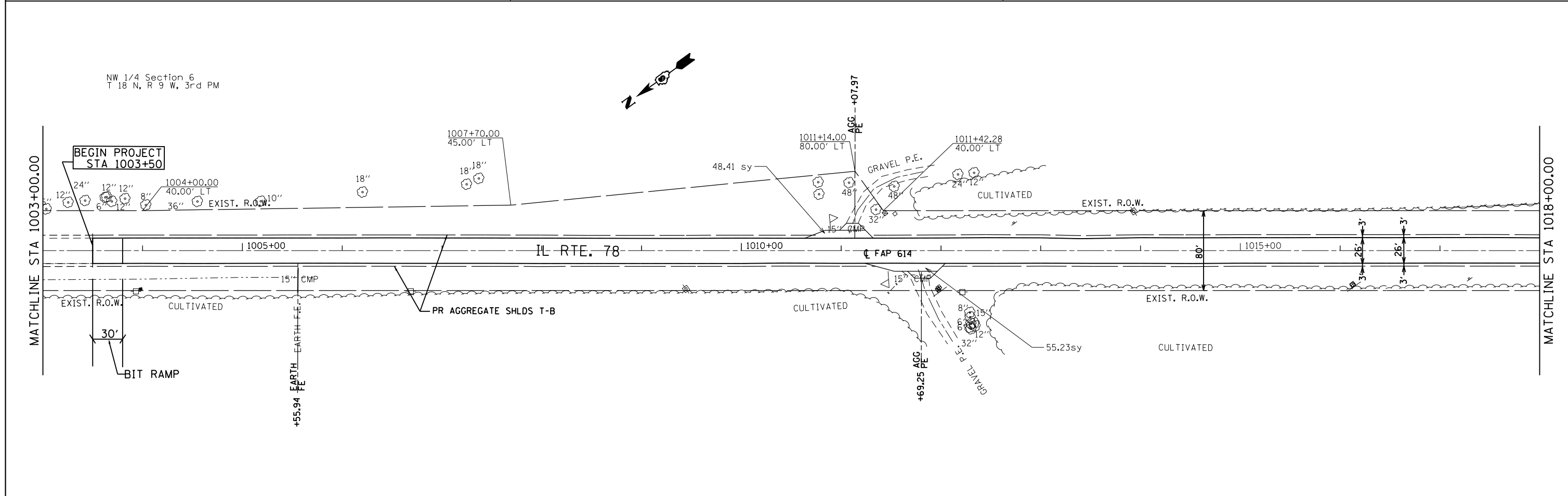
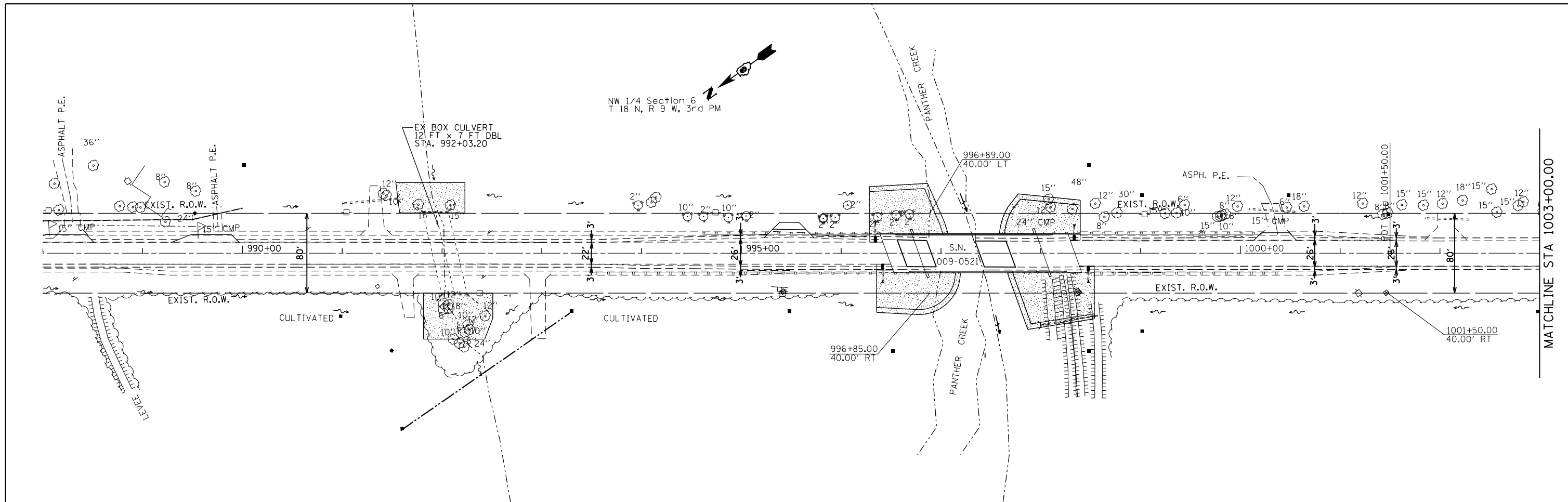
\* 1003+50 TO 135+00 - 3 1/2"  
 135+00 TO 137+00 - 5 3/4"  
 137+80.10 TO 211+00 - 3 1/2"  
 211+00 TO 365+00 - 7 1/2"

**LEGEND:**

- ① EX. P.C.C. PAVEMENT (9-6-9)
- ② EX. BITUMINOUS OVERLAY \*
- ③ EXISTING CONC. GUTTER
- ④ EX. BASE COURSE WIDENING 9"
- ⑤ PR. HOT-MIX ASPHALT SURFACE REMOVAL (VAR. DEPTH) - 3/4" AVG @ CL IN NON-GUTTER AREAS - 2 1/4" IN GUTTER AREAS
- ⑥ PR. BITUMINOUS LEVEL BINDER (MACHINE METHOD), N50 (3/4 IN AVG)
- ⑦ PR. HOT-MIX ASPHALT CONCRETE SURFACE COURSE, MIX C. N50 - 1 1/2"
- ⑧ PR. AGGREGATE WEDGE SHOULDERS, TYPE B
- ⑨ PR. PAVEMENT MARKING, LINE 5"

FILE NAME =	USER NAME = sparksgw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL SECTION</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	20-sh-typical.dgn	DRAWN -	REVISED -		614	(146)RS-4	CASS	28	8			
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 72F70				
	PLOT DATE = Jun-06-2014 10:51:34AM	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							



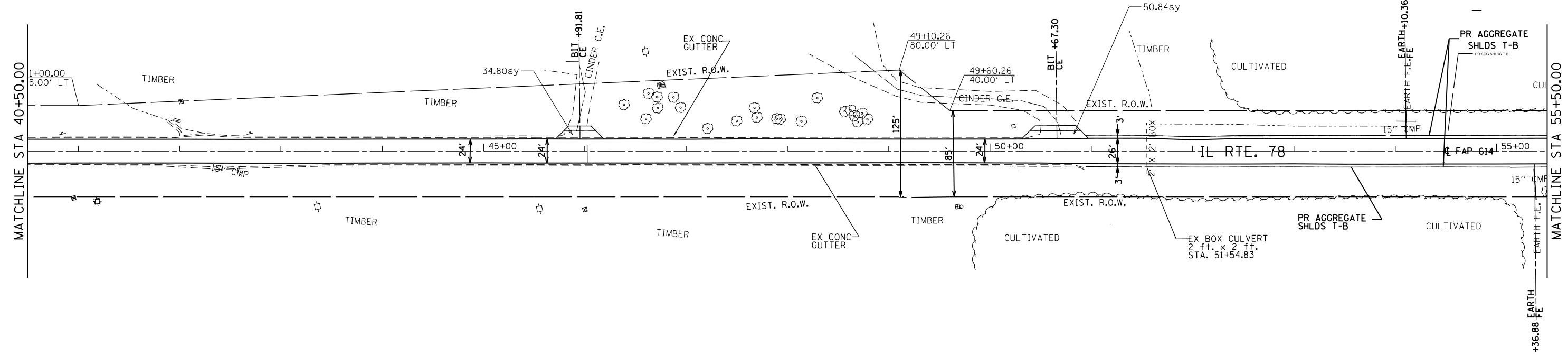


FILE NAME =	USER NAME = sparksgw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN SHEETS</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
Default	e:\pwork\pwork\sparksgw\100313810\067270-Plan1.dgn	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	614	(146) RS-4	CASS	28	9
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -								CONTRACT NO. 72F70				
	PLOT DATE = Jun-06-2014 10:51:40AM	DATE -	REVISED -								ILLINOIS FED. AID PROJECT				

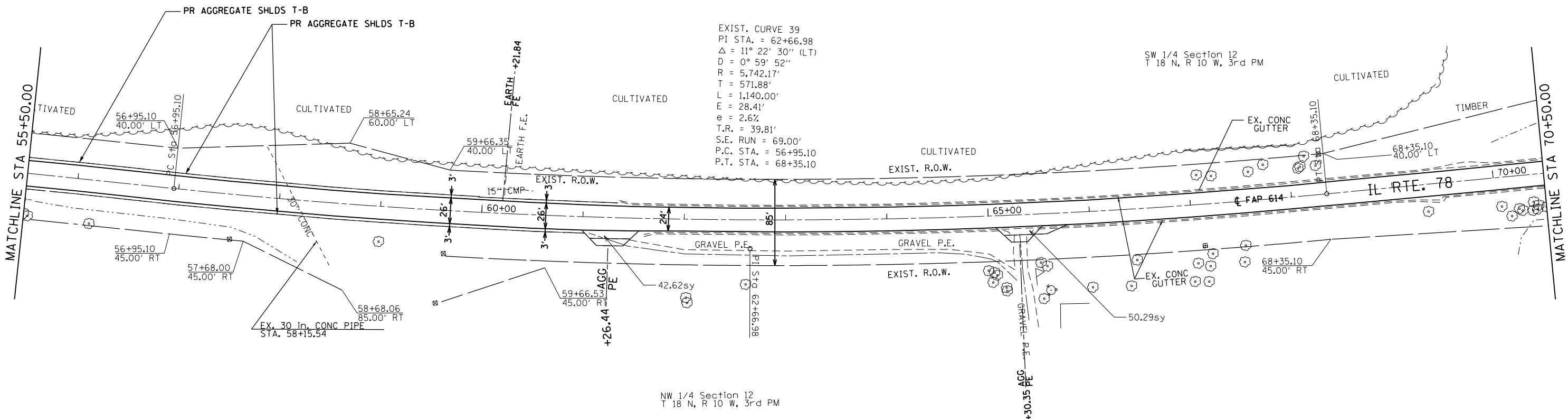




NW 1/4 Section 12  
T 18 N, R 10 W, 3rd PM



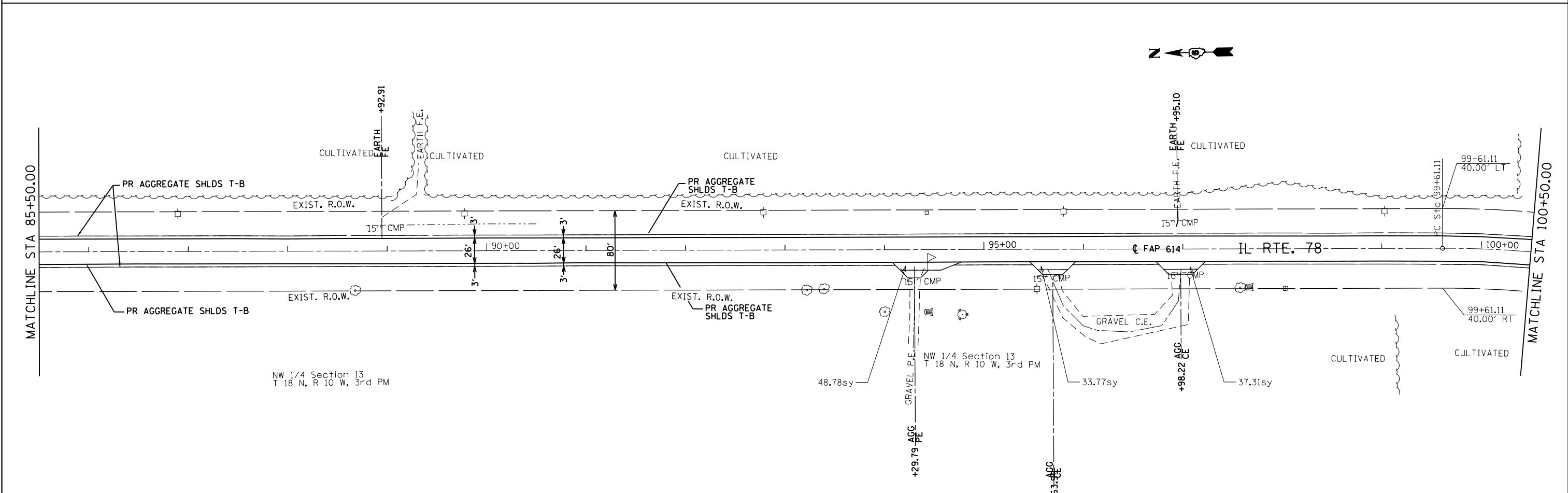
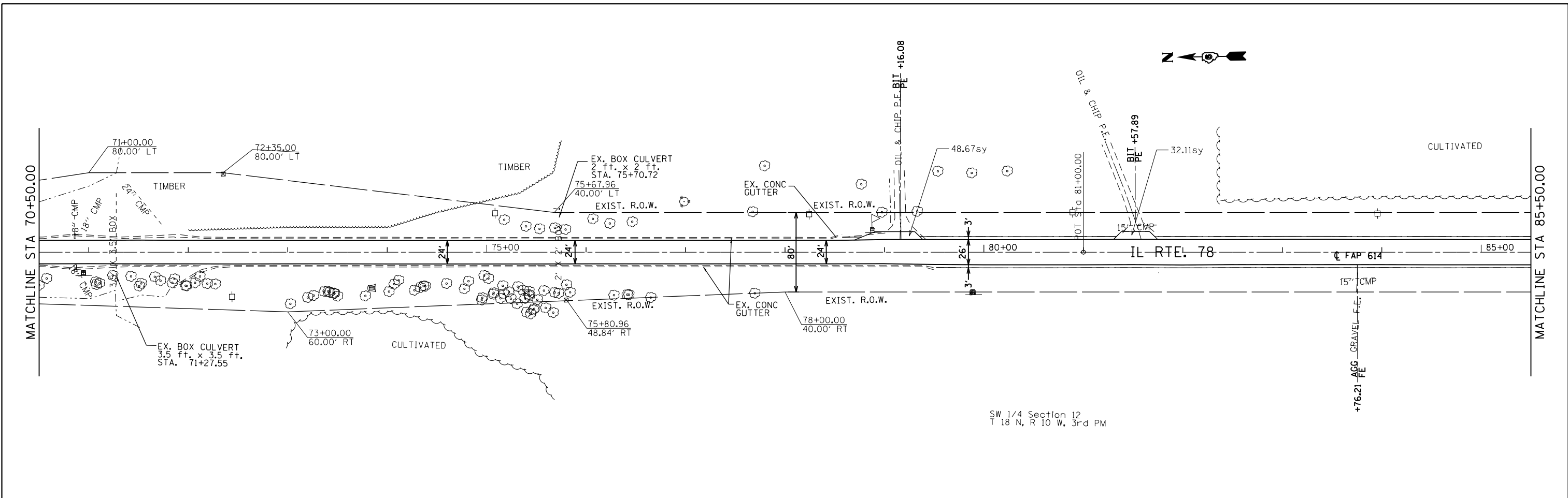
SW 1/4 Section 12  
T 18 N, R 10 W, 3rd PM



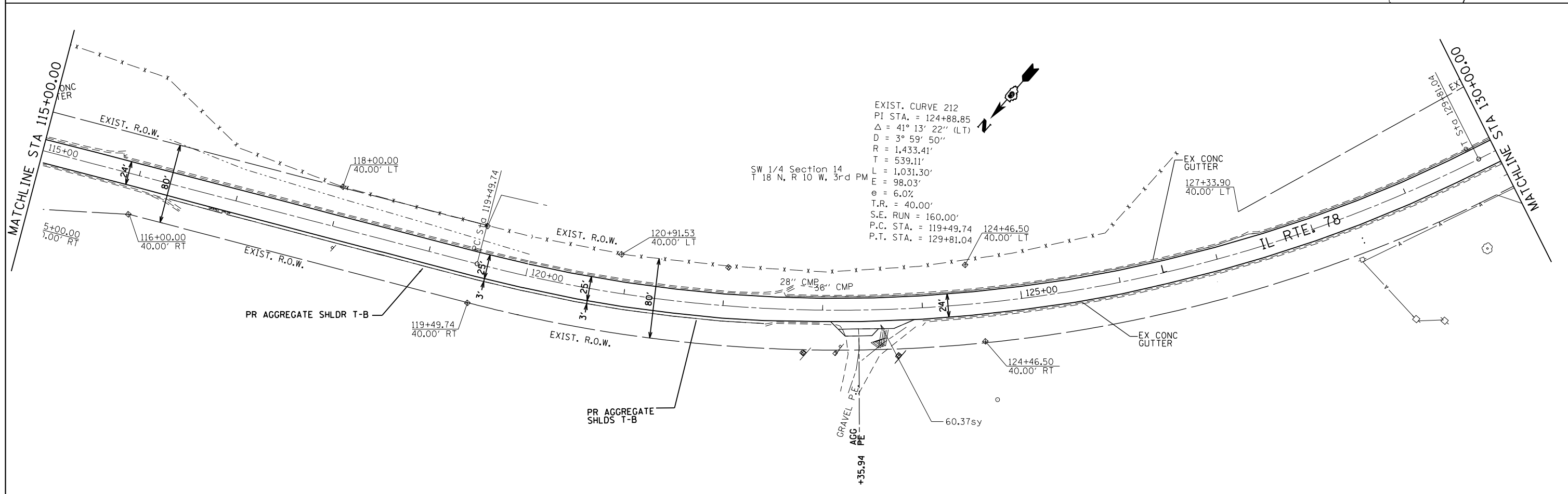
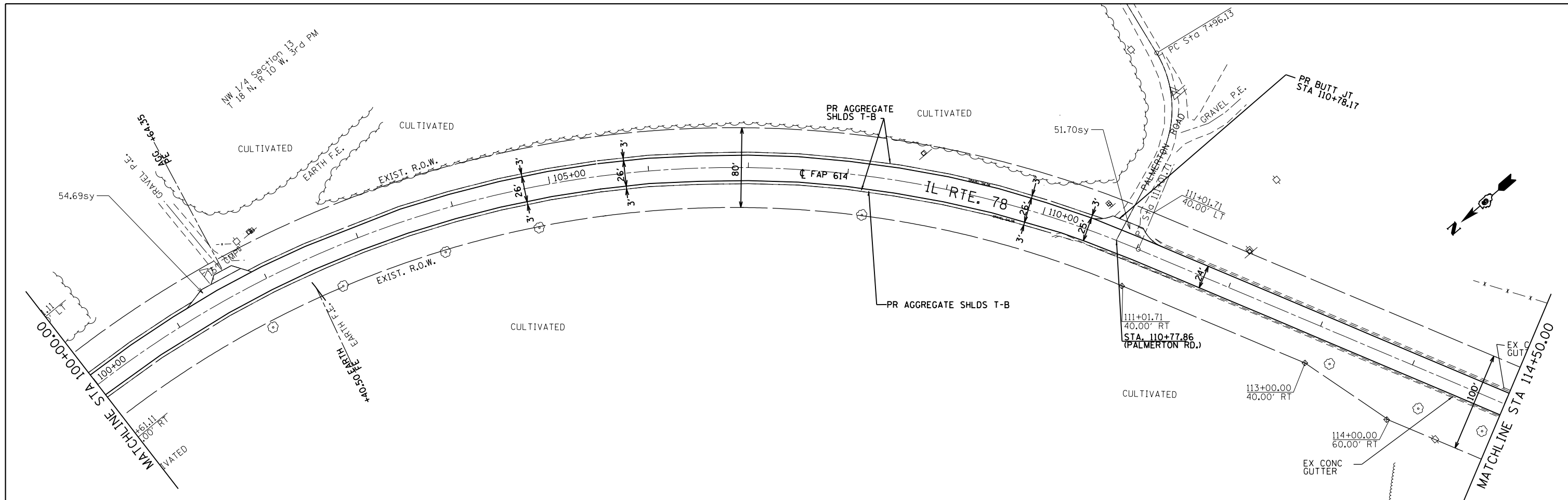
EXIST. CURVE 39  
PI STA. = 62+66.98  
Δ = 11° 22' 30" (LT)  
D = 0° 59' 52"  
R = 5,742.17'  
T = 571.88'  
L = 1,140.00'  
E = 28.41'  
e = 2.6%  
T.R. = 39.81'  
S.E. RUN = 69.00'  
P.C. STA. = 56+95.10  
P.T. STA. = 68+35.10

NW 1/4 Section 12  
T 18 N, R 10 W, 3rd PM

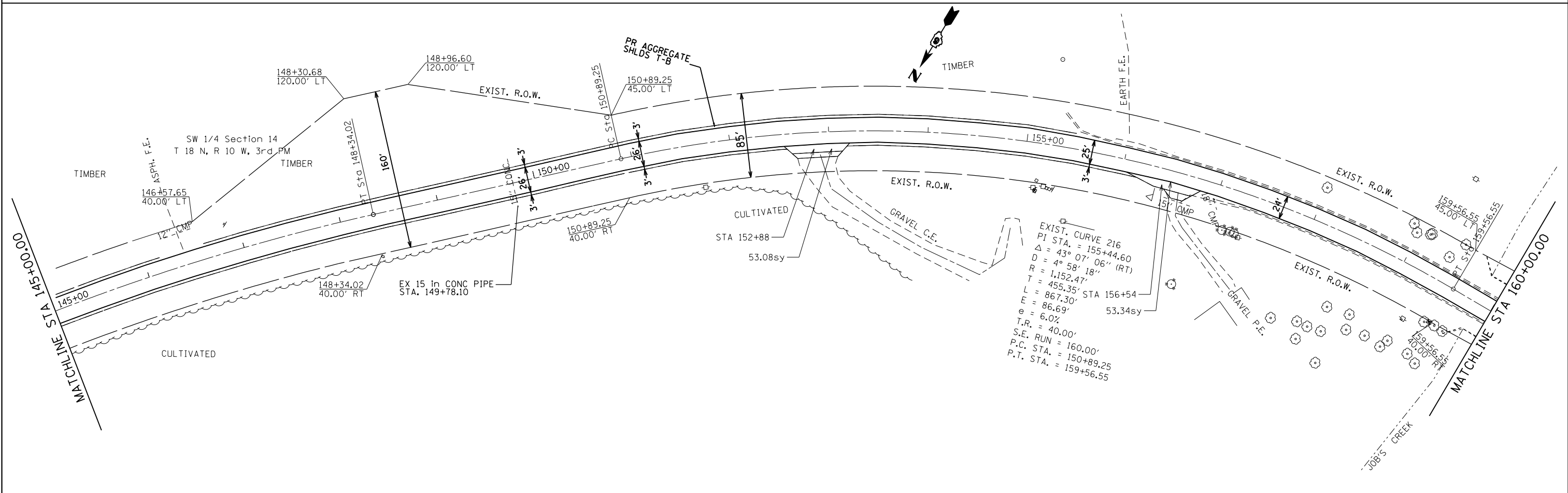
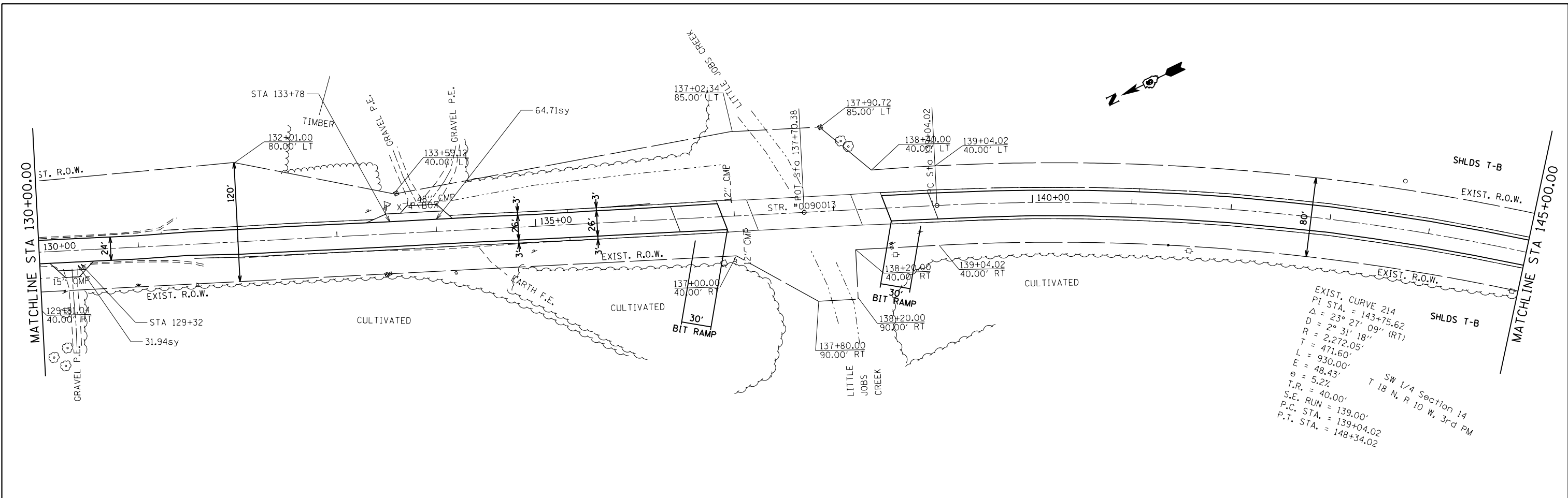
FILE NAME =	USER NAME = sparksgw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN SHEETS</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
Default	ei:\pw\work\p\idot\sparksgw\10313810\0672770-Plan1.dgn	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	614	(146) RS-4	CASS	28	12
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -												
	PLOT DATE = Jun-06-2014 10:51:41AM	DATE -	REVISED -												
											CONTRACT NO. 72F70				
											ILLINOIS FED. AID PROJECT				



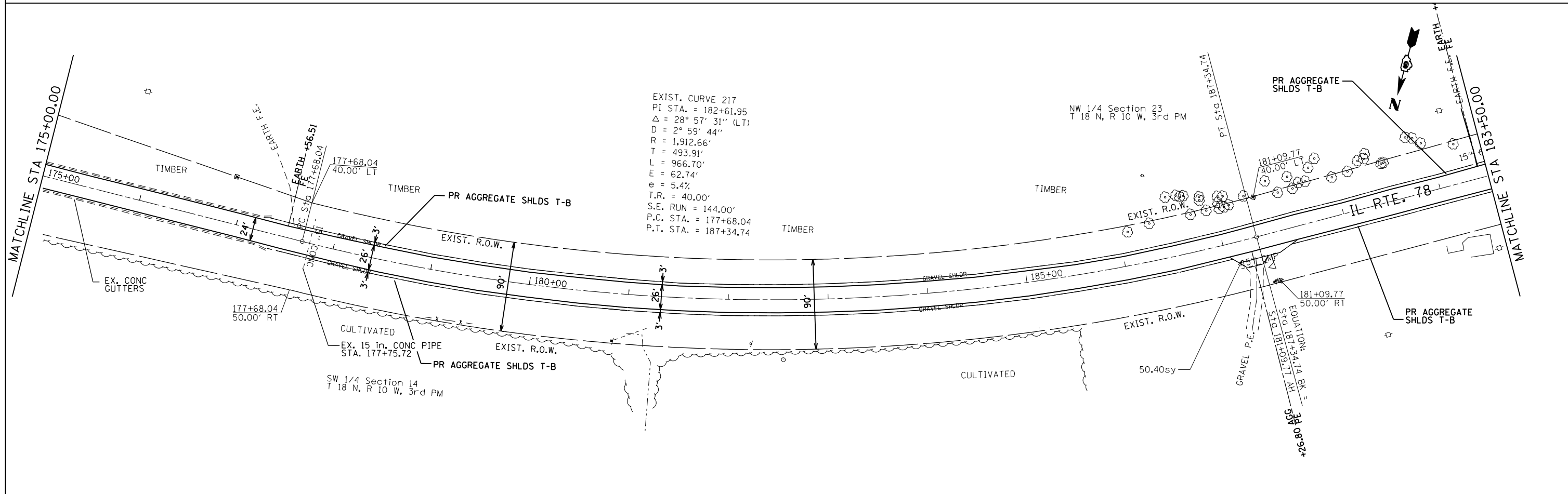
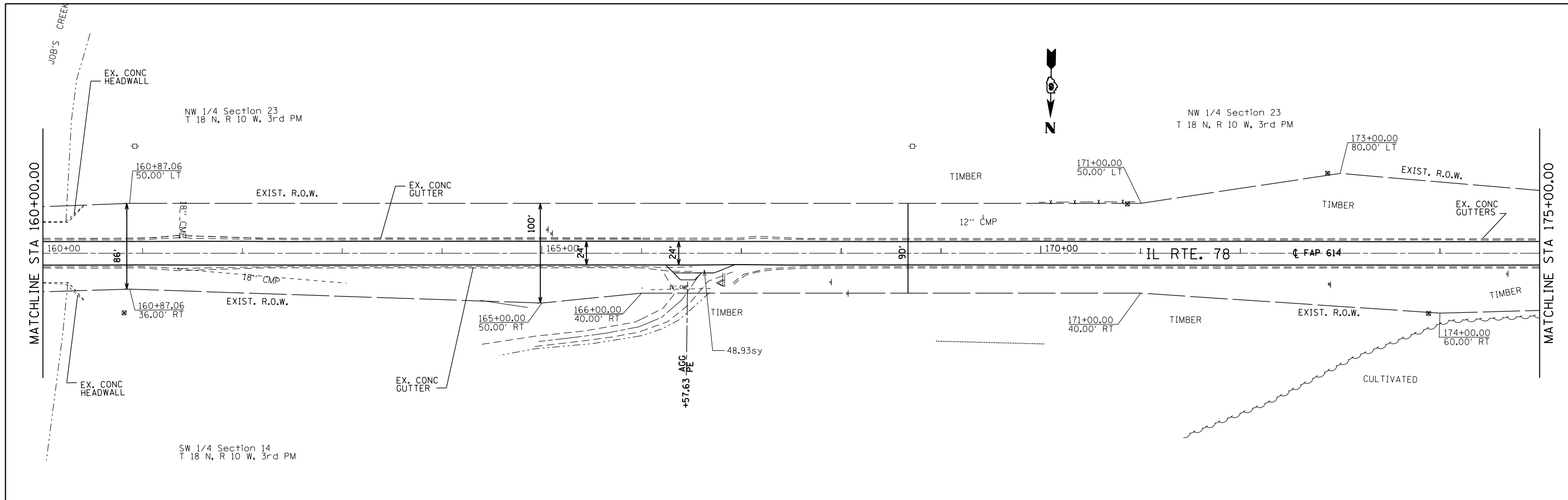
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Default	ei:\pw\work\p\midot\sparksgw\100313810\0672770-Plan1.dgn	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	614	(146) RS-4	CASS	28	13
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -								CONTRACT NO. 72F70				
	PLOT DATE = Jun-06-2014 10:51:41AM	DATE -	REVISED -								ILLINOIS FED. AID PROJECT				



FILE NAME =	USER NAME = sparksgw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN SHEETS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
Default	c:\pwork\pwork\sparksgw\10313810\0672770-Plan1.dgn	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	614	(146) RS-4	CASS	28	14
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -								CONTRACT NO. 72F70				
	PLOT DATE = Jun-06-2014 10:51:41AM	DATE -	REVISED -								ILLINOIS FED. AID PROJECT				

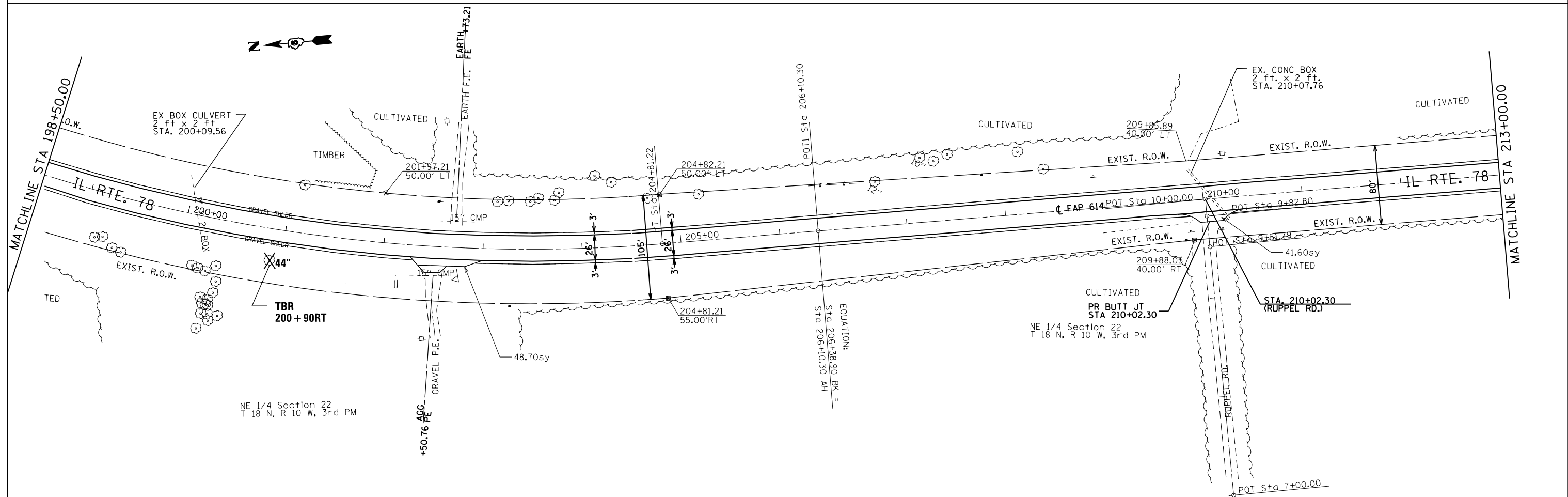
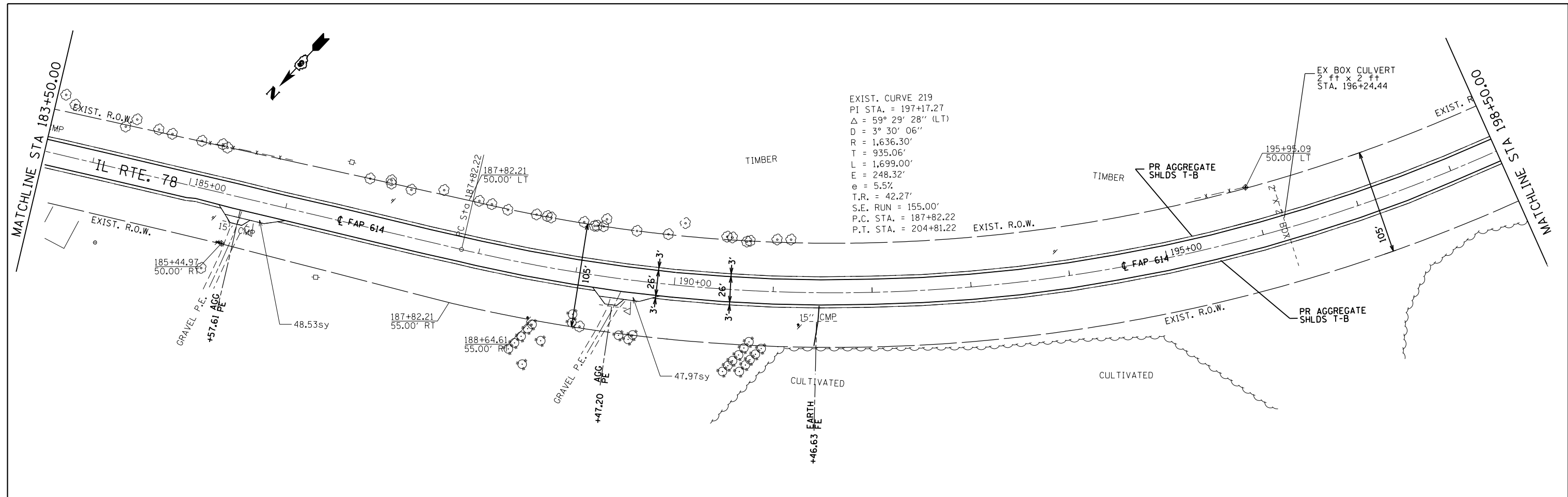


FILE NAME =	USER NAME = sparksgw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN SHEETS</b>				F.A.P. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
Default	Default	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	614	(146) RS-4	CASS	28	15
		CHECKED -	REVISED -									CONTRACT NO. 72F70				
		DATE -	REVISED -									ILLINOIS FED. AID PROJECT				



FILE NAME =	USER NAME = sparksgw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN SHEETS</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
Default	c:\pwork\pwork\sparksgw\10313810\0672770-Plan1.dgn	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	614	(146) RS-4	CASS	28	16
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -												
	PLOT DATE = Jun-06-2014 10:51:42AM	DATE -	REVISED -												
											CONTRACT NO. 72F70				
											ILLINOIS FED. AID PROJECT				

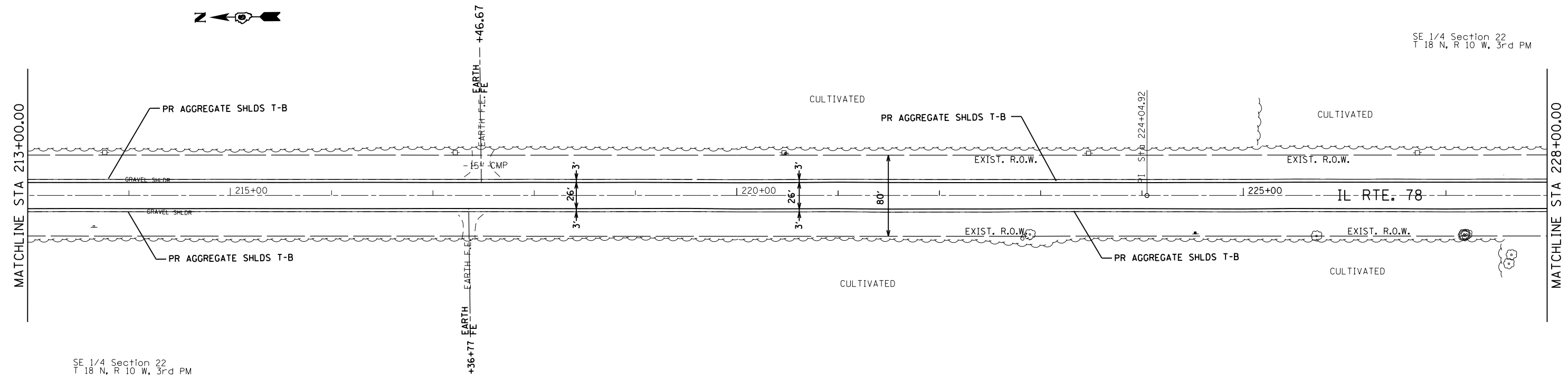




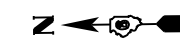
FILE NAME =	USER NAME = sparksgw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN SHEETS</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
Default	c:\pwwork\pwwork\sparksgw\10313810\0672770-Plan1.dgn	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	614	(146) RS-4	CASS	28	17
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -												
	PLOT DATE = Jun-06-2014 10:51:42AM	DATE -	REVISED -												
CONTRACT NO. 72F70											ILLINOIS FED. AID PROJECT				



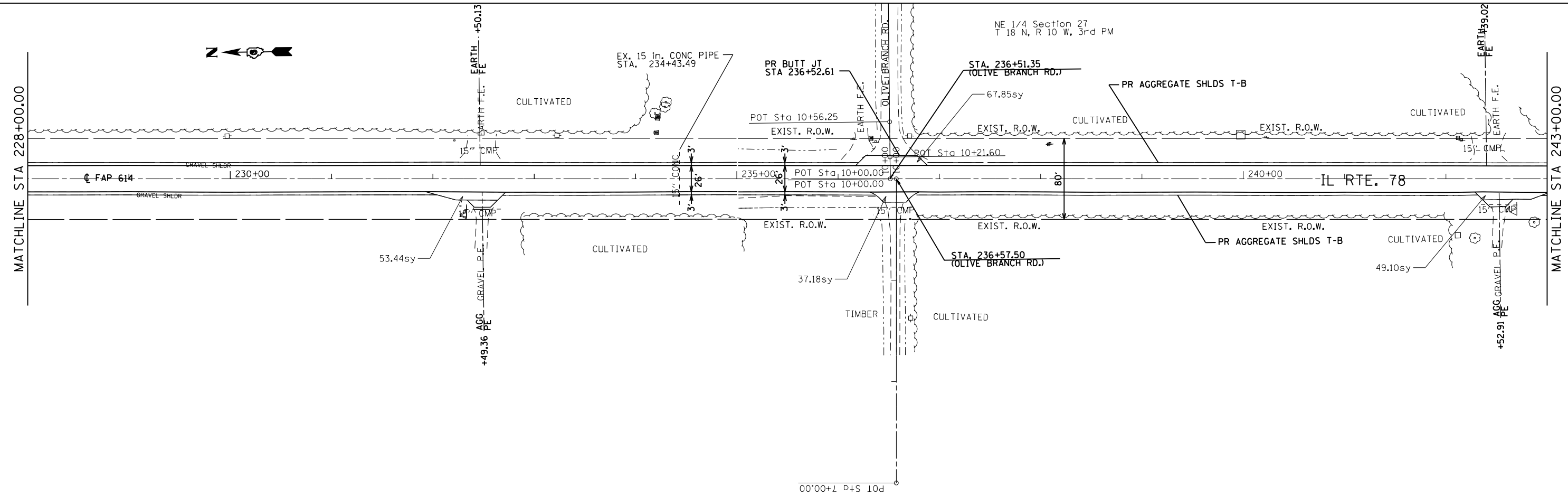
SE 1/4 Section 22  
T 18 N, R 10 W, 3rd PM



SE 1/4 Section 22  
T 18 N, R 10 W, 3rd PM



NE 1/4 Section 27  
T 18 N, R 10 W, 3rd PM



FILE NAME =	USER NAME = sparksgw	DESIGNED -	REVISED -
ei:\pw\work\p\dot\sparksgw\10313810\0672770-Plan1.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = Jun-06-2014 10:51:43AM	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

PLAN SHEETS			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	(146) RS-4	CASS	28	18
CONTRACT NO. 72F70				
ILLINOIS FED. AID PROJECT				

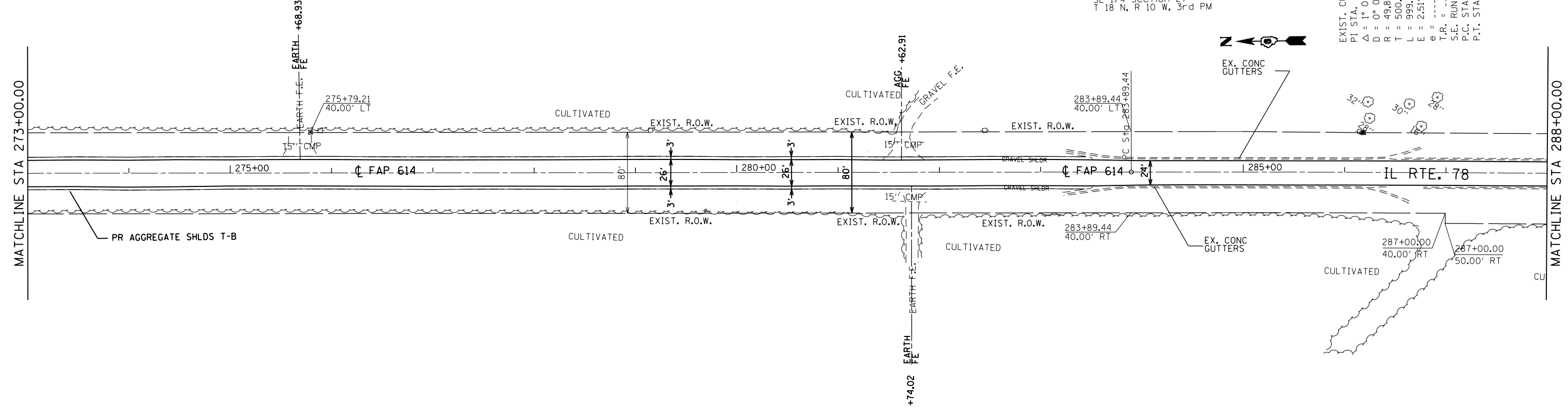


SE 1/4 Section 27  
T 18 N, R 10 W, 3rd PM

EXIST. CURVE 348  
PI STA. = 288+89.44  
 $\Delta = 1^{\circ} 09' 01''$  (RT)  
D = 0° 06' 54"  
R = 49,812.40'  
T = 500.00'  
L = 999.97'  
E = 2.51'  
T.R. = -----  
S.E. RUN = 283+89.44  
P.C. STA. = 283+89.44  
P.T. STA. = 293+89.40

MATCHLINE STA 273+00.00

MATCHLINE STA 288+00.00

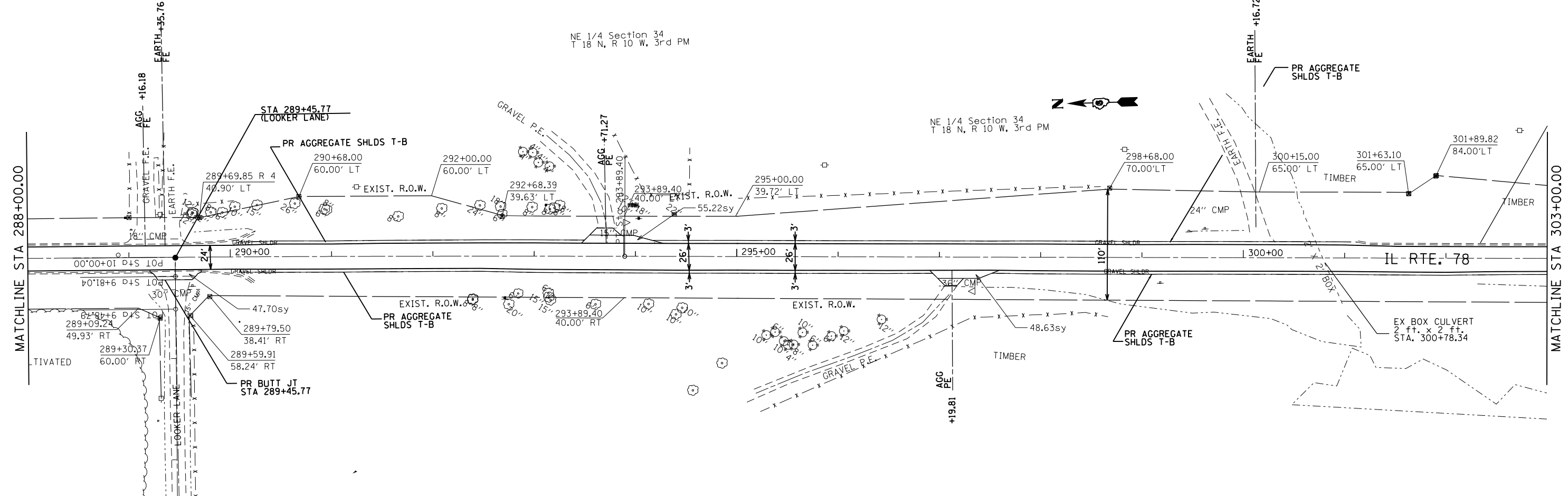


NE 1/4 Section 34  
T 18 N, R 10 W, 3rd PM

NE 1/4 Section 34  
T 18 N, R 10 W, 3rd PM

MATCHLINE STA 288+00.00

MATCHLINE STA 303+00.00



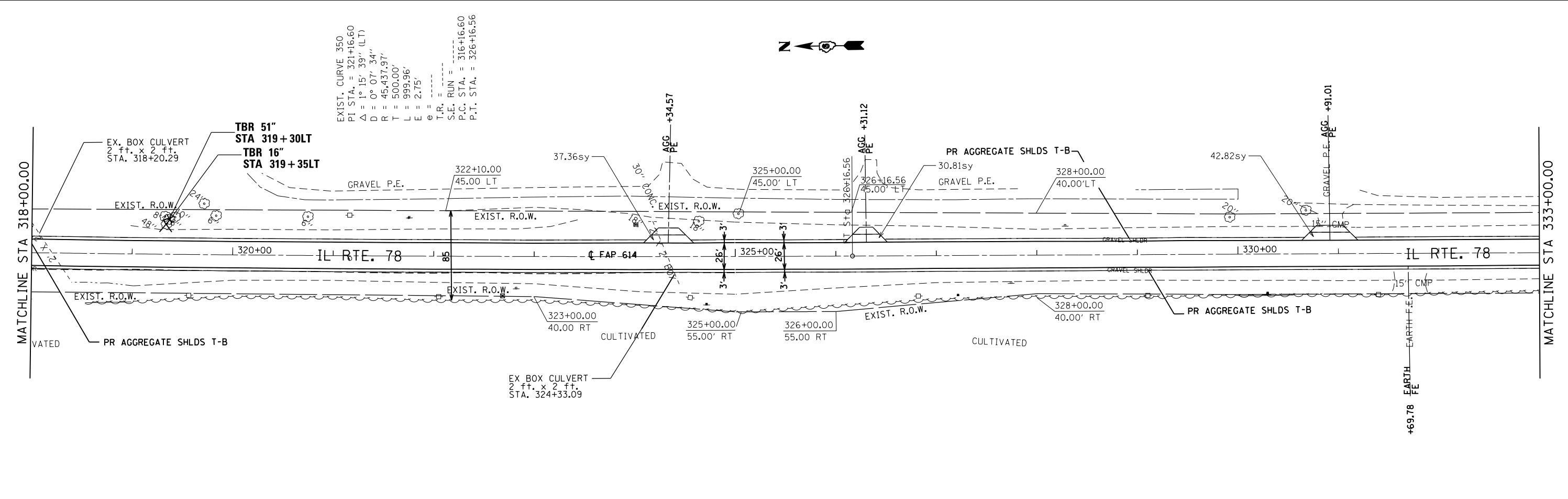
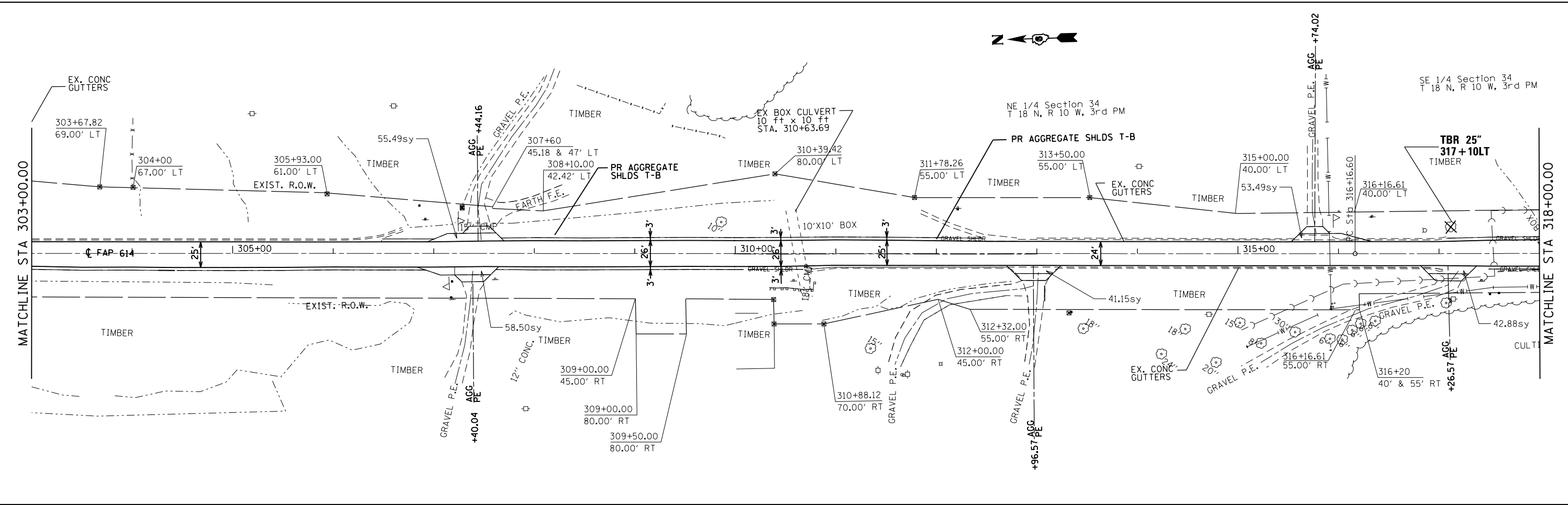
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ei:\pw\work\pwidot\sparksgw\100313810\0672770-Plan1.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = Jun-06-2014 10:51:43AM	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PLAN SHEETS**

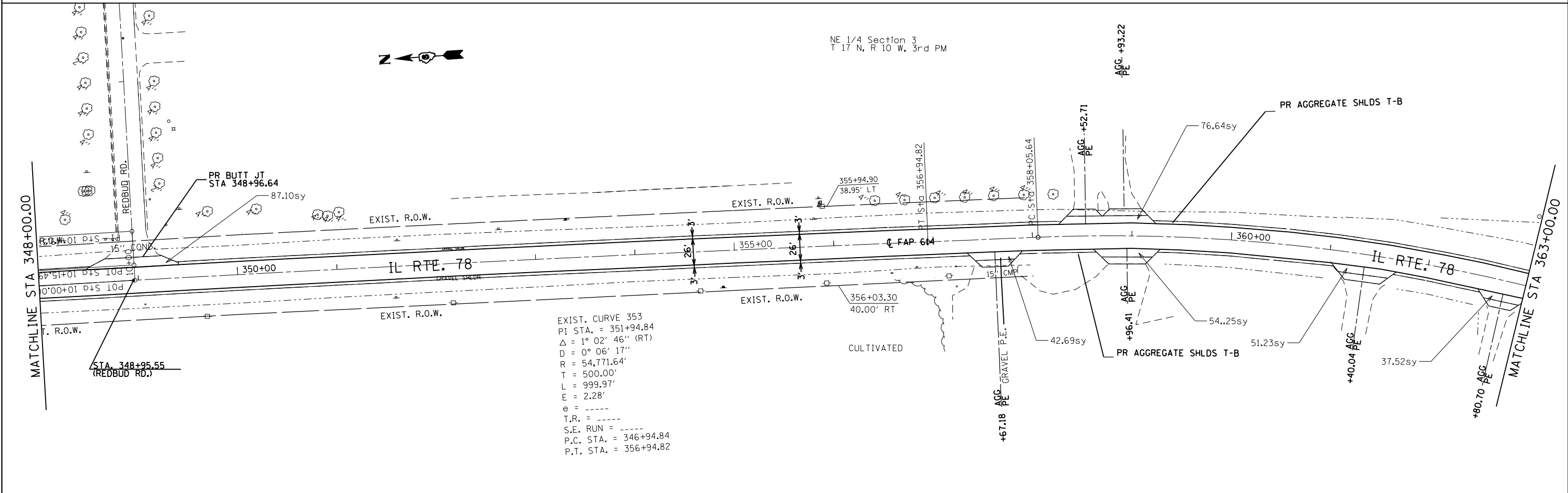
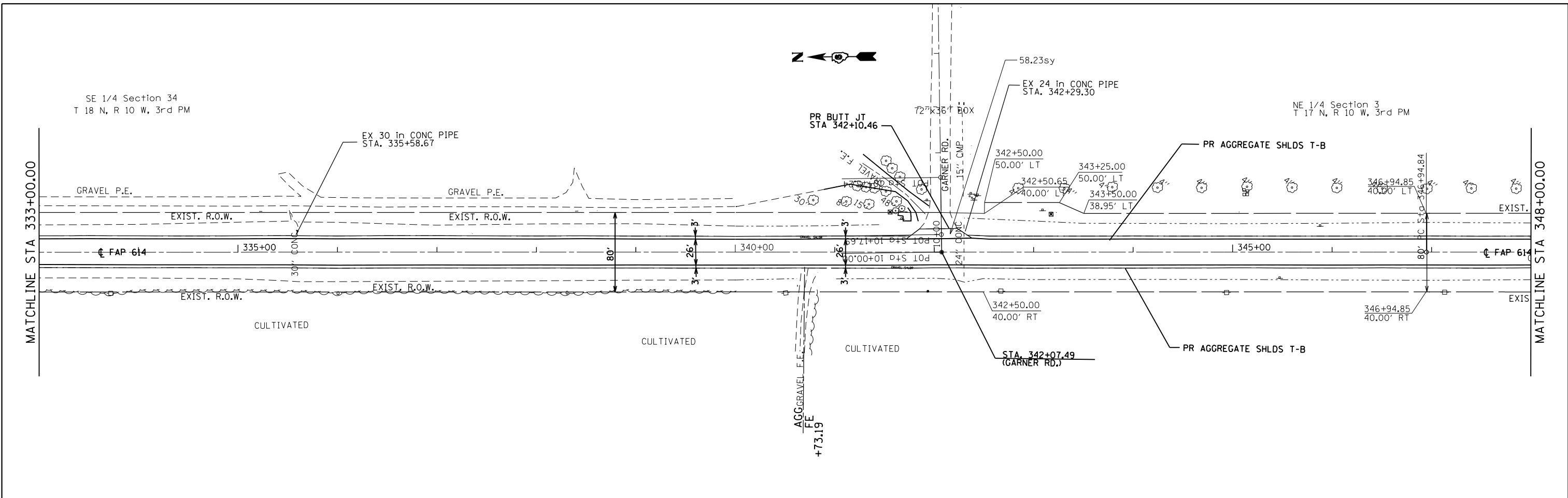
SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	(146) RS-4	CASS	28	20
CONTRACT NO. 72F70				
ILLINOIS FED. AID PROJECT				

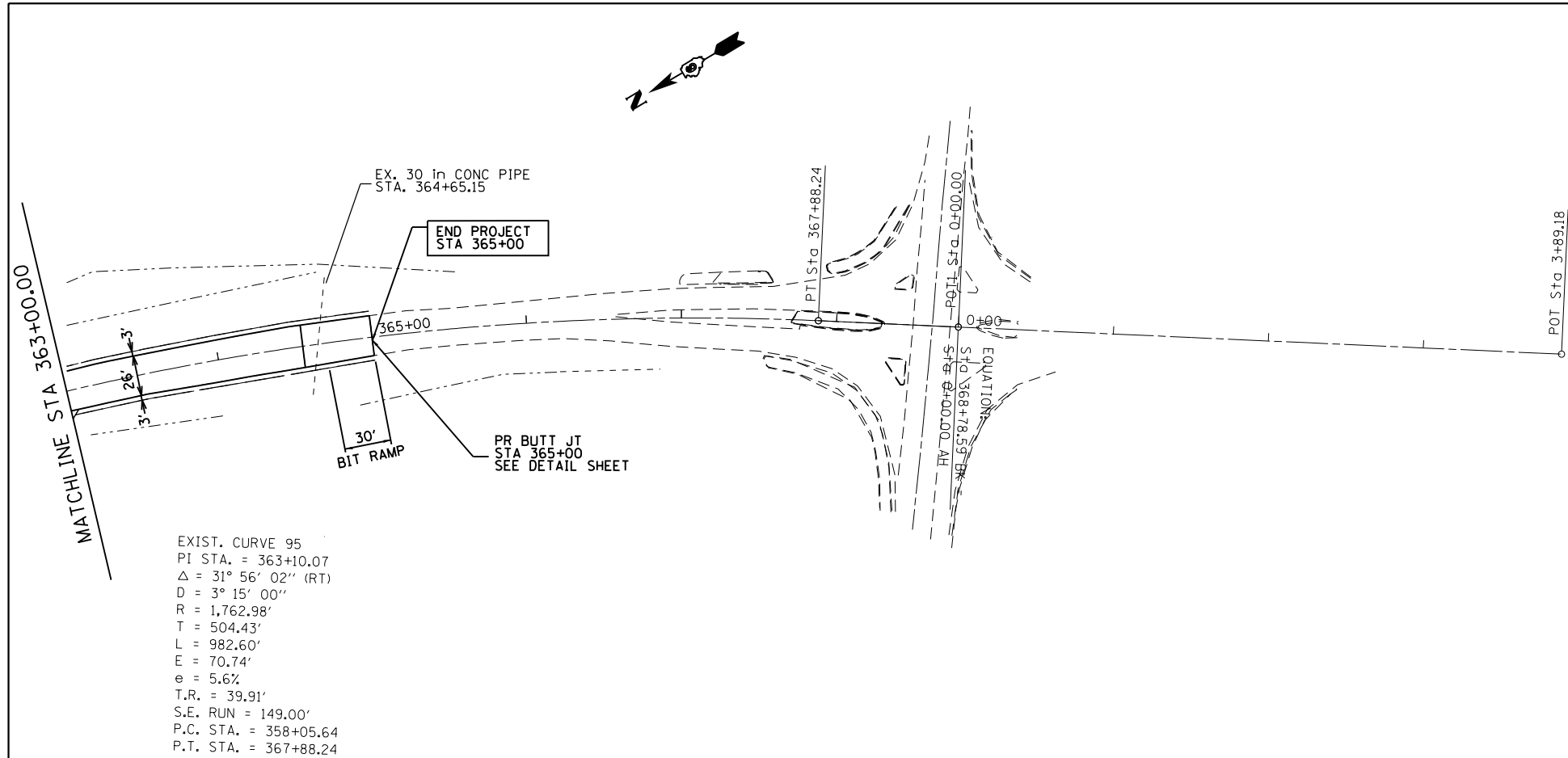


EXIST. CURVE 350  
 P.I. STA. = 321+16.60  
 $\Delta = 1^{\circ} 15' 39''$  (LT)  
 $D = 0^{\circ} 07' 34''$   
 $R = 45,437.97'$   
 $T = 500.00'$   
 $L = 999.96'$   
 $E = 2.75'$   
 $e =$   
 T.R. =  
 S.E. RUN = 316+16.60  
 P.C. STA. = 326+16.56  
 P.T. STA. = 326+16.56

FILE NAME =	USER NAME = sparksgw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN SHEETS</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	ei:\pw\work\p\midot\sparksgw\100313810\0672770-Plan1.dgn	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	614	(146) RS-4	CASS	28 21
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -											CONTRACT NO. 72F70
	PLOT DATE = Jun-06-2014 10:51:44AM	DATE -	REVISED -											ILLINOIS FED. AID PROJECT



FILE NAME =	USER NAME = sparksgw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN SHEETS</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
Default	c:\pwwork\pwwork\sparksgw\100313810\0672770-Plan1.dgn	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	614	(146) RS-4	CASS	28	22
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -									CONTRACT NO. 72F70				
	PLOT DATE = Jun-06-2014 10:51:44AM	DATE -	REVISED -									ILLINOIS FED. AID PROJECT				



EXIST. CURVE 95  
 PI STA. = 363+10.07  
 $\Delta = 31^\circ 56' 02''$  (RT)  
 D = 3° 15' 00"  
 R = 1,762.98'  
 T = 504.43'  
 L = 982.60'  
 E = 70.74'  
 $e = 5.6\%$   
 T.R. = 39.91'  
 S.E. RUN = 149.00'  
 P.C. STA. = 358+05.64  
 P.T. STA. = 367+88.24

END PROJECT  
 STA 365+00

PR BUTT JT  
 STA 365+00  
 SEE DETAIL SHEET

FILE NAME =	USER NAME = sparksgw	DESIGNED -	REVISED -
ci:\pw\work\p1dot\sparksgw\10313810\0672770-Plan1.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = Jun-06-2014 10:51:44AM	DATE -	REVISED -

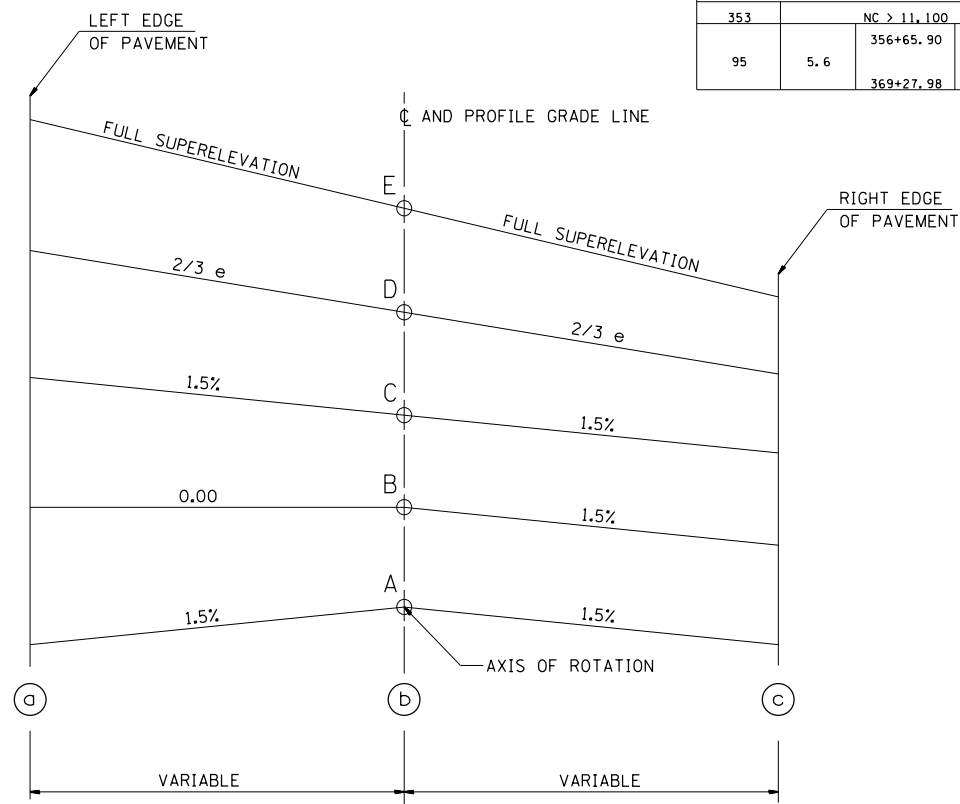
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PLAN SHEETS**

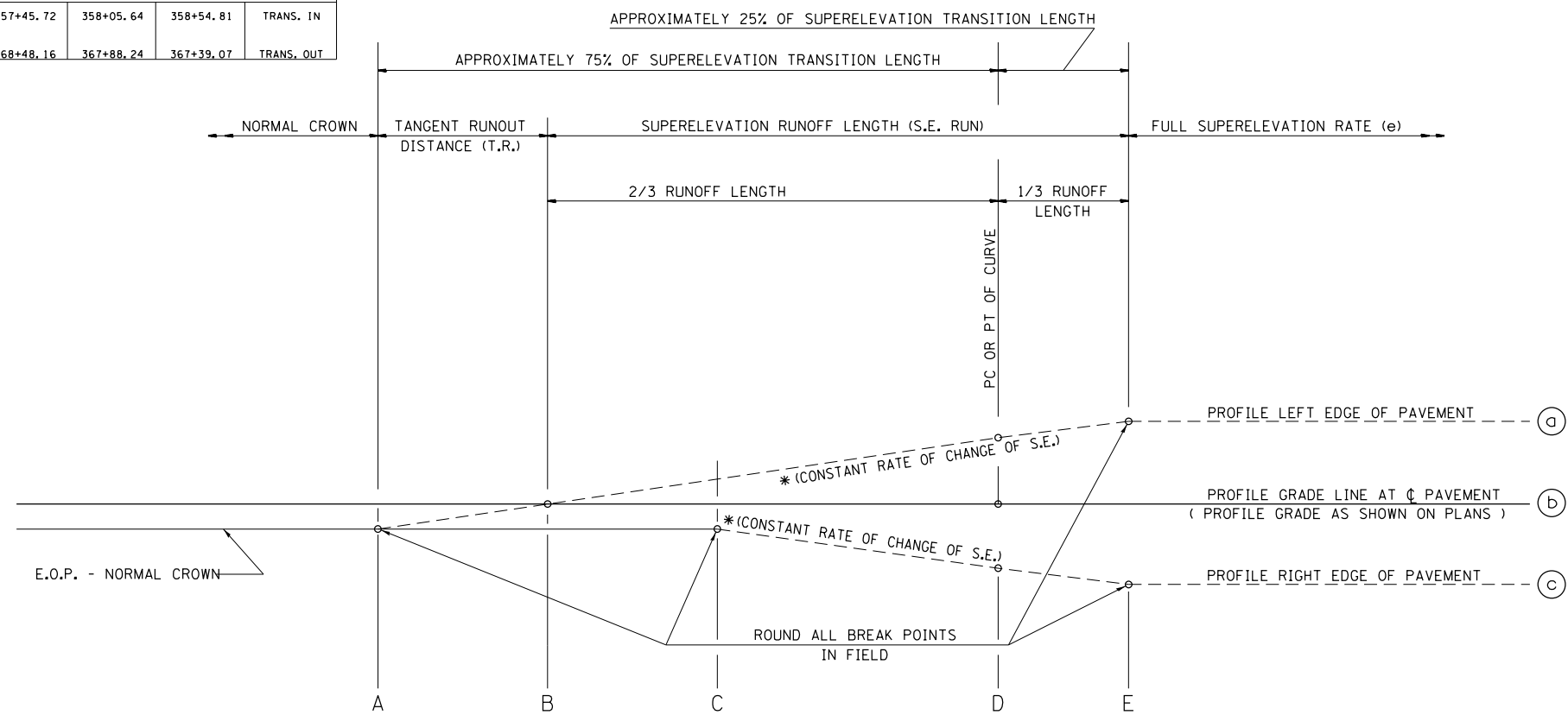
SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	(146) RS-4	CASS	28	23
<b>CONTRACT NO. 72F70</b>				
ILLINOIS FED. AID PROJECT				

TABLE OF SUPERELEVATION BREAK POINT LOCATIONS							
CURVE NO.	e	A	B	C	D	E	TRANSITION
205	5.80%	1020+01.69	1020+41.78	1020+81.87	1021+45.63	1021+96.78	TRANS. IN
		1032+37.20	1031+97.11	1031+57.02	1030+93.26	1030+42.11	TRANS. OUT
209	6.00%	26+30.98	26+70.98	27+10.98	27+78.18	28+30.98	TRANS. IN
		36+48.49	36+08.49	35+68.49	35+01.29	34+48.49	TRANS. OUT
39	2.60%	56+09.06	56+48.87	56+88.68	56+95.10	57+17.87	TRANS. IN
		69+21.14	68+81.33	68+41.52	68+35.10	68+12.33	TRANS. OUT
211	6.00%	98+13.91	98+53.91	98+93.91	99+61.11	100+13.91	TRANS. IN
		112+54.91	112+14.91	111+74.91	111+07.71	110+54.91	TRANS. OUT
212	6.00%	118+02.54	118+42.54	118+82.54	119+49.74	120+02.54	TRANS. IN
		131+28.24	130+88.24	130+48.24	129+81.04	129+28.24	TRANS. OUT
214	5.20%	137+70.79	138+10.89	138+50.99	139+04.02	139+49.89	TRANS. IN
		149+67.25	149+27.15	148+87.05	148.34.02	147+88.15	TRANS. OUT
216	6.00%	149+42.05	149+82.05	150+22.05	150+89.25	151+42.05	TRANS. IN
		161+03.75	160+63.75	160+23.75	159+56.55	159+03.75	TRANS. OUT
217	5.40%	176+31.56	176+71.56	177+11.56	177+68.04	178+15.56	TRANS. IN
		188+71.22	188+31.22	187+91.22	187+34.74	186+87.22	TRANS. OUT
219	5.50%	186+36.10	186+78.37	187+20.64	187+82.22	188+33.37	TRANS. IN
		206+27.34	205+85.07	205+42.80	204+81.22	204+30.07	TRANS. OUT
348	NC > 11,100						
350	NC > 11,100						
353	NC > 11,100						
95	5.6	356+65.90	357+05.81	357+45.72	358+05.64	358+54.81	TRANS. IN
		369+27.98	368+88.07	368+48.16	367+88.24	367+39.07	TRANS. OUT



TYPICAL CROSS SECTION - S.E. TRANSITION



TYPICAL PROFILE - S.E. TRANSITION

FILE NAME =	USER NAME = sparksgw	DESIGNED - ETJ	REVISED -
ct:\pw\work\p\dot\sparksgw\10313810\0672770-sht-details.dgn		DRAWN - ETJ	REVISED -
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	PLOT DATE = Jun-06-2014 10:51:47AM	DATE - 1-1	REVISED -

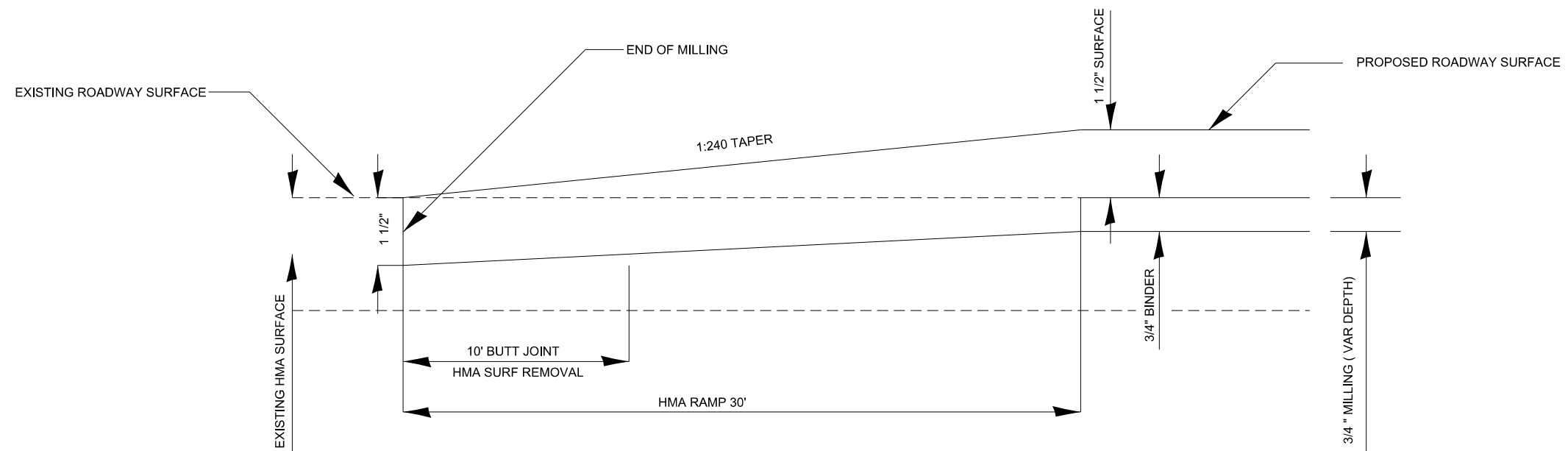
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUPERELEVATION DETAILS

SCALE: SHEET OF 7 SHEETS STA. TO STA.

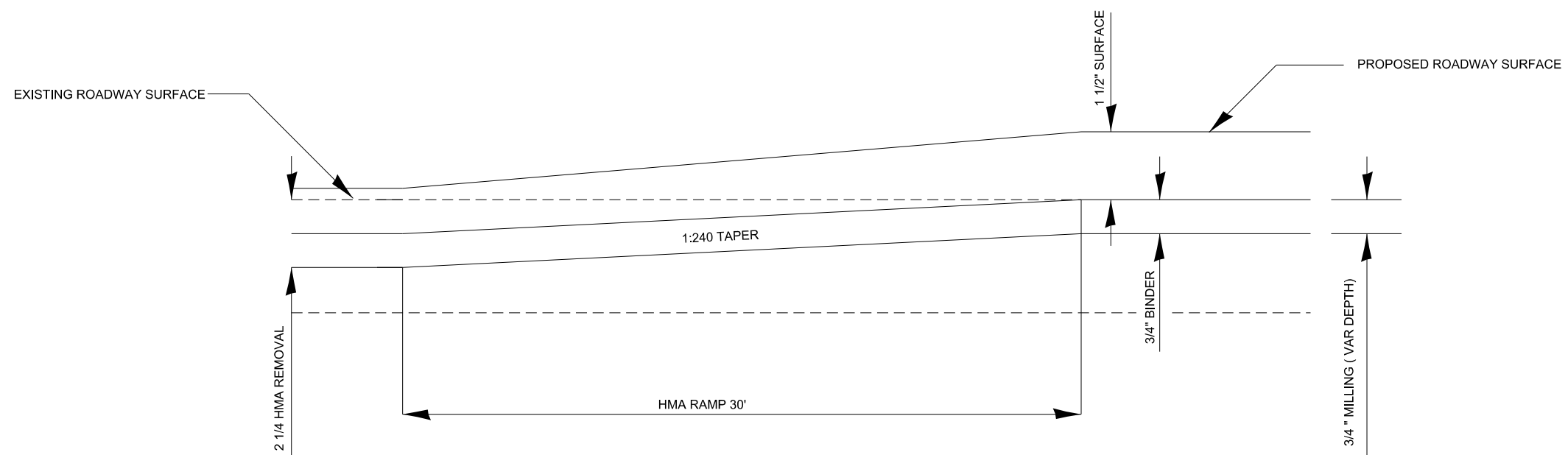
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	(146) RS-4	CASS	28	24
CONTRACT NO. 72F70				
ILLINOIS FED. AID PROJECT				





## BUTT JOINT DETAIL

FILE NAME =	USER NAME = sparksgw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BUTT JOINT DETAIL</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pwork\sparksgw\0313810\0672770-sht-details.dgn		DRAWN -	REVISED -						614	(146) RS-4	CASS	28	25
Default	PLOT SCALE = 200.0000' / in.	CHECKED -	REVISED -		CONTRACT NO. 72F70								
	PLOT DATE = Jun-06-2014 10:51:47AM	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT	



# MILLING TRANSITION DETAIL

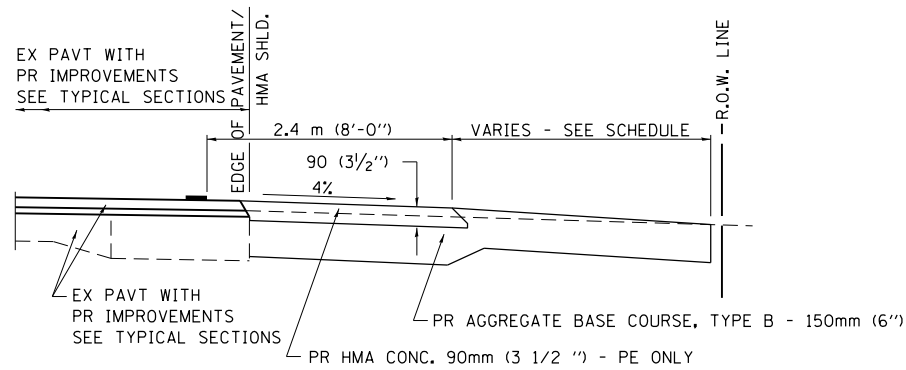
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

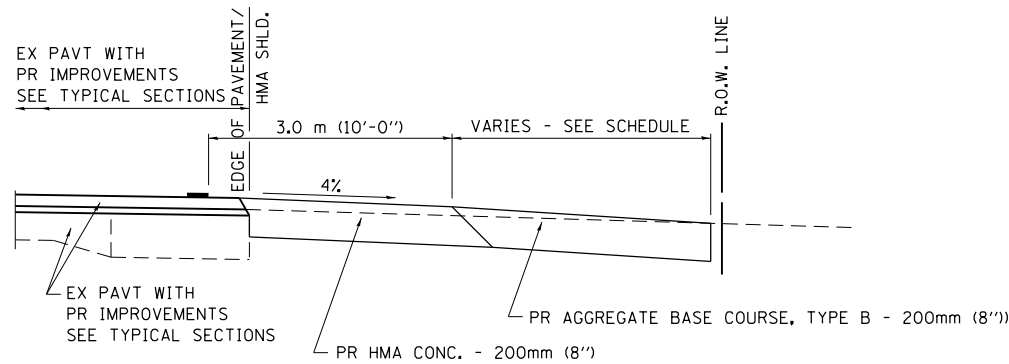
**BUTT JOINT DETAIL**

SCALE: SHEET OF SHEETS STA. TO STA.

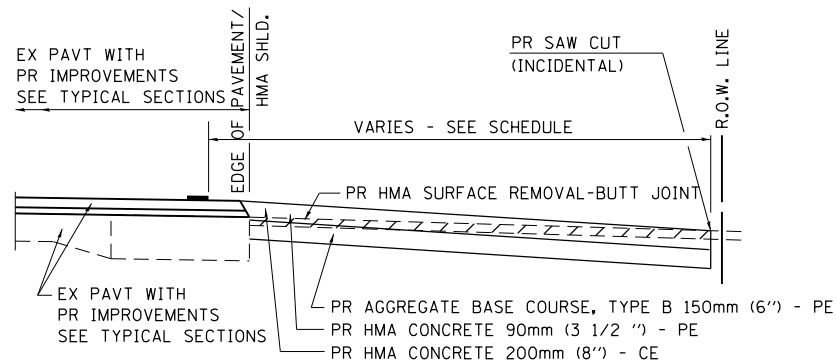
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	(146) RS-4	CASS	28	26
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72F70	



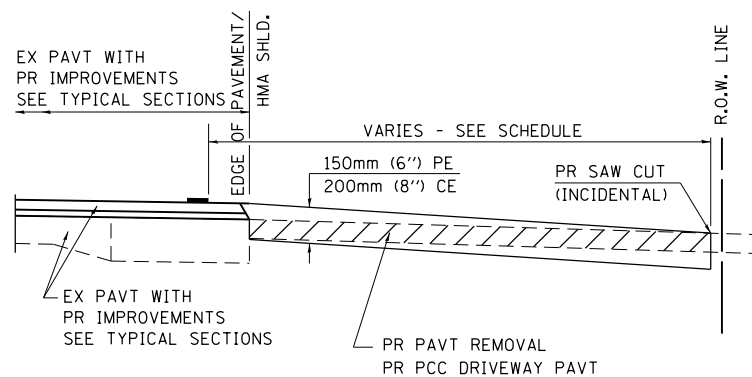
**SECTION A-A FOR EX EARTH/AGGREGATE FE & PE**



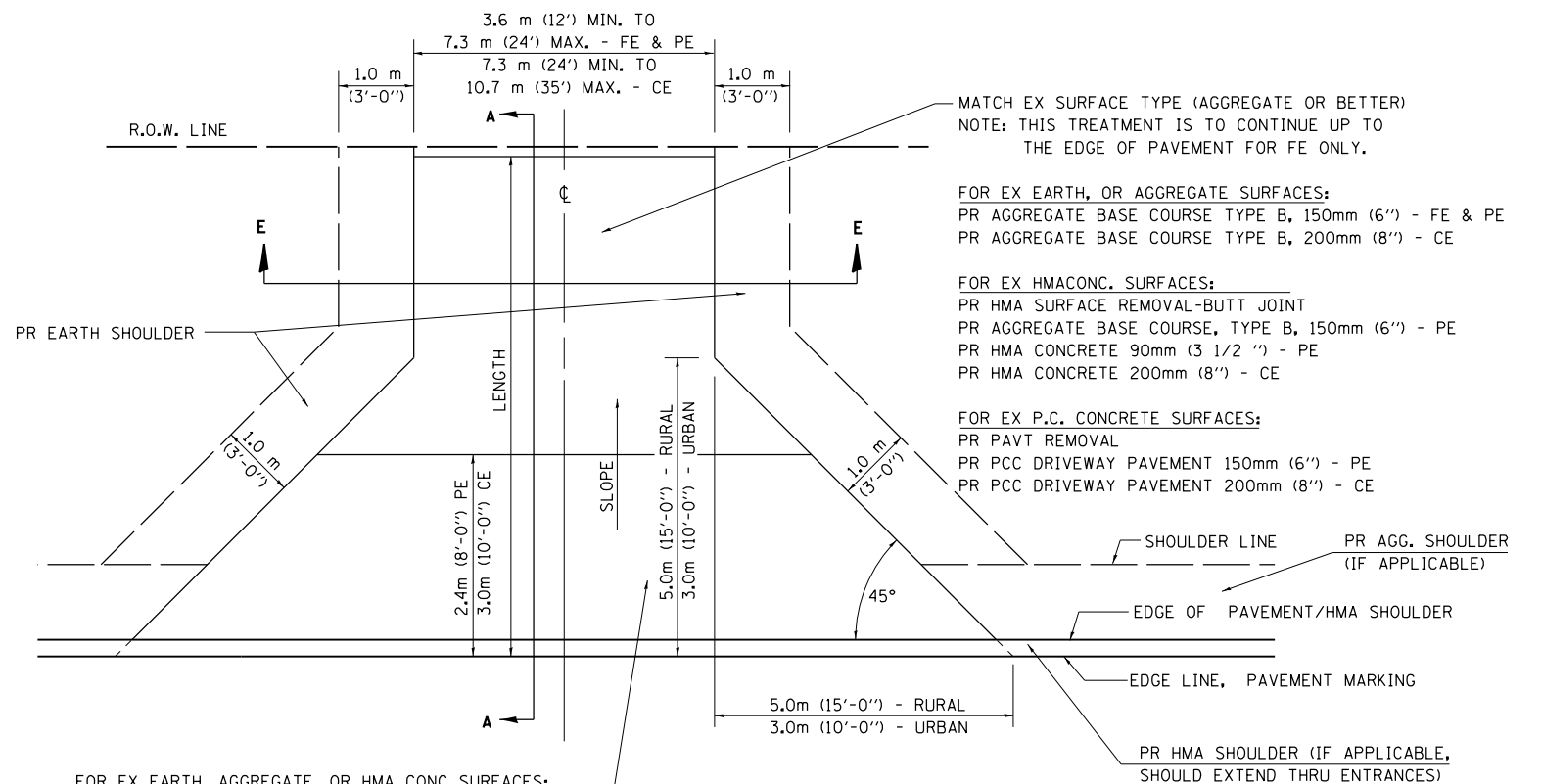
**SECTION A-A FOR EX EARTH/AGGREGATE CE**



**SECTION A-A FOR EX HMA PE & CE**



**SECTION A-A FOR EX P.C. CONC. PE & CE**



FOR EX EARTH, AGGREGATE, OR HMA CONC SURFACES:  
 PR HMA SURFACE REMOVAL-BUTT JOINT (IF APPLICABLE)  
 PR AGGREGATE BASE COURSE TYPE B 150mm (6") - FE  
 PR AGGREGATE BASE COURSE TYPE B, 150mm (6") &  
 PR HMA CONCRETE 90mm (3 1/2 ") - PE  
 PR HMA CONCRETE 200mm (8") - CE

FOR P.C. CONCRETE SURFACES:  
 PR PAVT REMOVAL  
 PR PCC DRIVEWAY PAVT 150mm (6") - PE  
 PR PCC DRIVEWAY PAVT 200mm (8") - CE

**GENERAL NOTES:**

THE RESIDENT ENGINEER WILL DETERMINE THE EXACT TYPE OF IMPROVEMENT TO BE COMPLETED FOR ALL ENTRANCES, SIDEROADS AND MAILBOX TURNOUTS ON THIS PROJECT.

THE PLAN DETAILS AND SCHEDULES SHOULD BE USED AS A GUIDE FOR THE ENGINEER TO IMPLEMENT THE FINAL DESIGN. THE ENGINEER MAY DECIDE TO SALVAGE PORTIONS OF THE EXISTING ENTRANCE PAVEMENT STRUCTURE; THEREFORE, REDUCING PAY ITEM QUANTITIES. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR THIS REDUCTION IN QUANTITIES.

ANY WORK THE ENGINEER REQUIRES WHICH IS NOT COVERED BY A PAY ITEM CONTAINED IN THE PLANS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

HMA CONCRETE REQUIRED TO CONSTRUCT THE ENTRANCES SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 406 AND 408 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.

WHEN THE HMA CONCRETE PROPOSED FOR THE IMPROVEMENT IS THICKER THAN 75 mm (3 INCHES) AND REQUIRE PLACEMENT IN MORE THAN ONE LIFT. THE BOTTOM LIFT(S) SHALL MEET THE REQUIREMENTS OF HMA BASE COURSE IN SECTION 406 OF THE STANDARD SPECIFICATIONS AND THE TOP LIFT OF 50 mm (2 INCHES) SHALL MEET THE REQUIREMENTS OF HMA CONCRETE SURFACE COURSE, SUPERPAVE.

THIS WORK WILL BE PAID FOR IN ACCORDANCE WITH SECTIONS 351, 358, 408, 423 AND 440 OF THE STANDARD SPECIFICATIONS.

**SECTION E - E ENTRANCE TYPICAL SECTION**

NOTE 1: WIDTH OF ENTRANCE MAY BE INCREASED AT THE PIPE CULVERT DUE TO THE DITCHLINE BEING LOCATED IN THE ENTRANCE FLARE AREA.

ALL DIMENSIONS ARE IN MILLIMETERS ( INCHES ) UNLESS OTHERWISE SHOWN.

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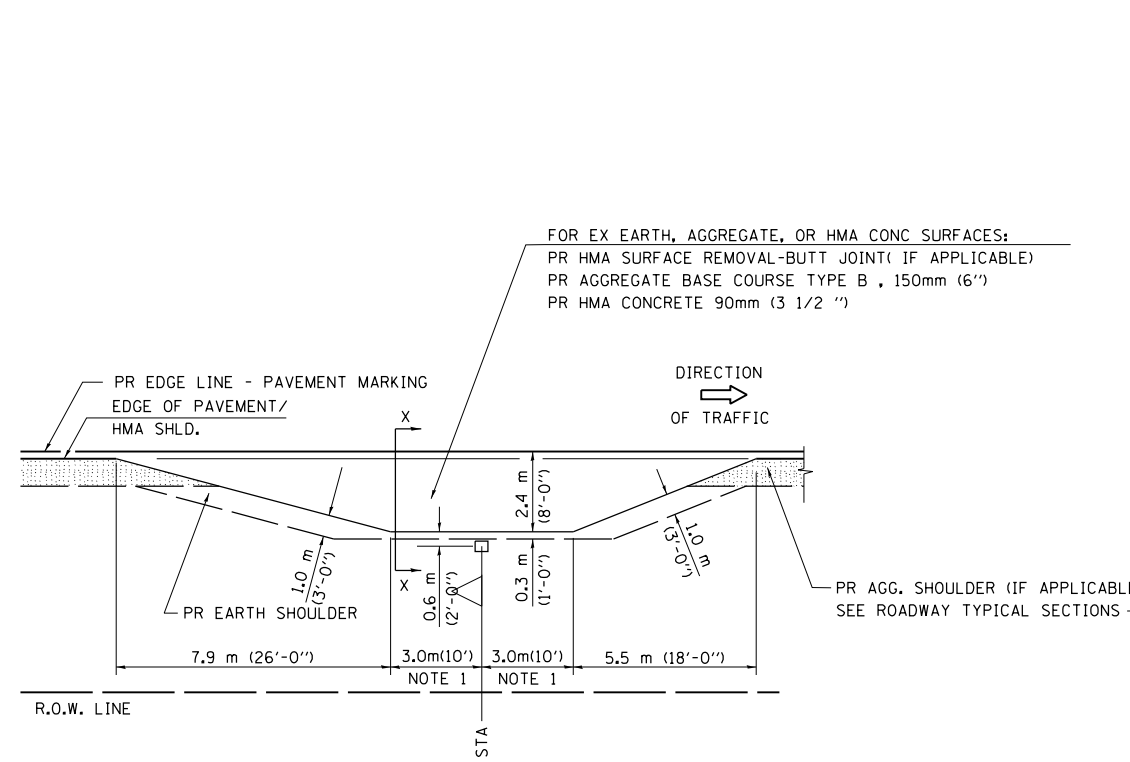
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT 6 DETAILS FOR RURAL /URBAN ENTRANCE &  
MAILBOX TURNOUT W/O CONC GUTTER (3R - PROJECTS)**

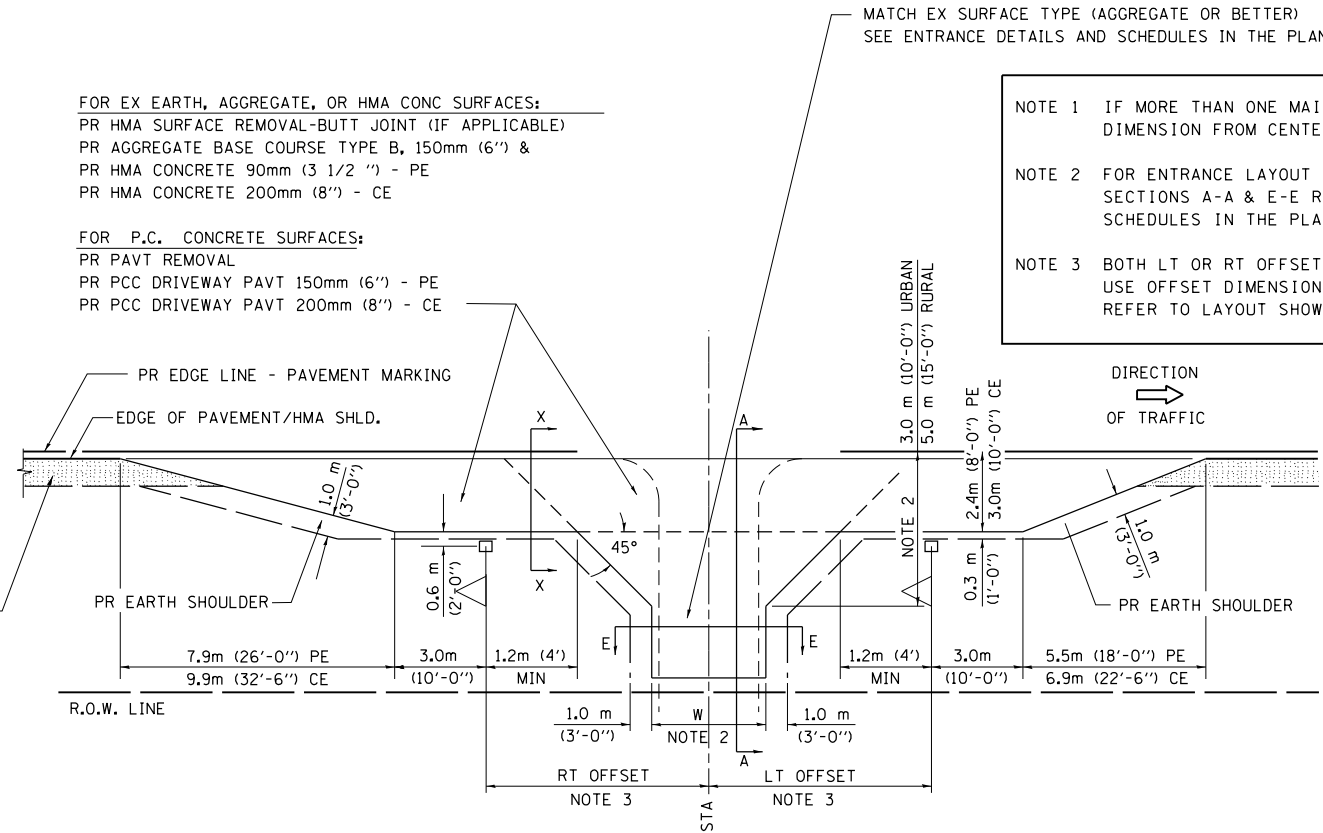
SCALE: SHEET NO. 1 OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	(146) RS-4	CASS	28	27
CONTRACT NO. 72F70				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

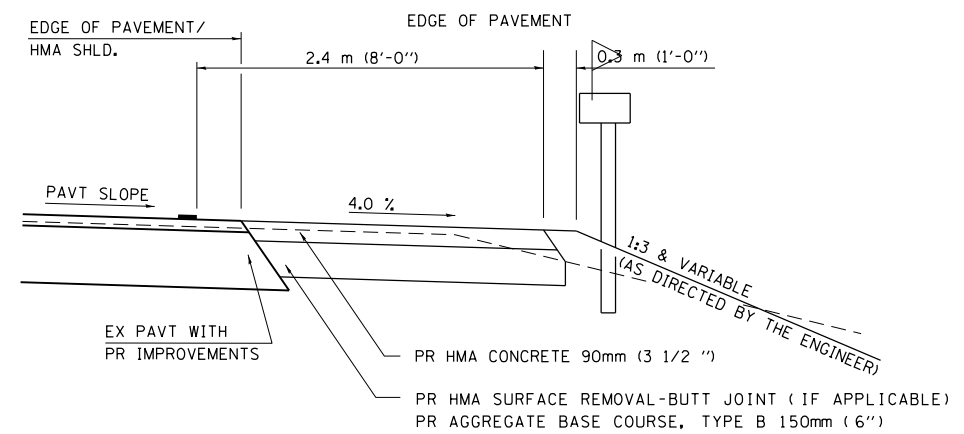
**DETAILS OF MAILBOX TURNOUTS**



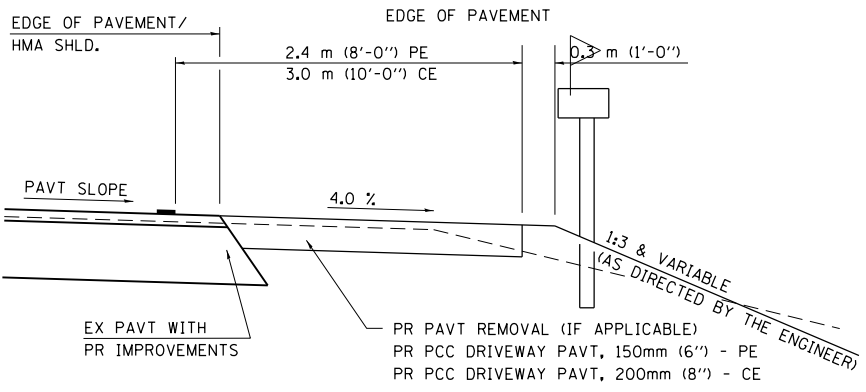
**PLAN - MAILBOX TURNOUTS**



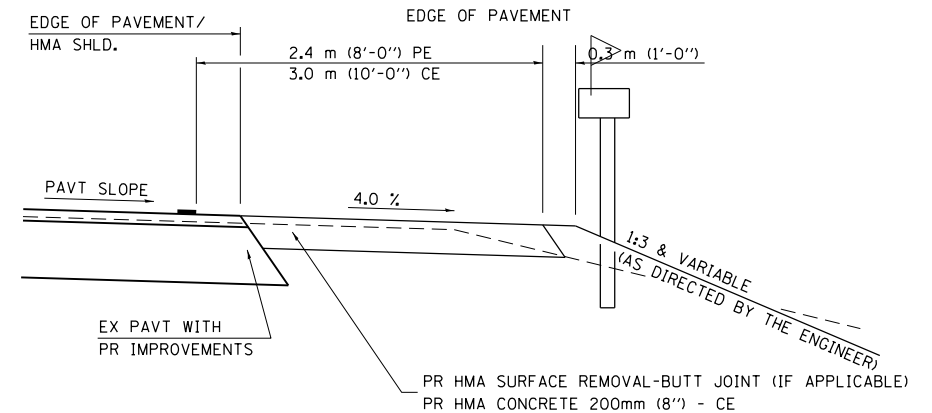
**PLAN - COMBINED MAILBOX TURNOUT WITH TRAILING OR LEADING ENTRANCE**



**SECTION X-X THRU MAILBOX TURNOUT  
 ALSO APPLIES TO MAILBOX TURNOUTS COMBINED WITH  
 EX EARTH, AGGREGATE, OR HMA PE & FE**



**SECTION X-X THRU MAILBOX TURNOUT  
 COMBINED WITH EX CONC PE OR CE**



**SECTION X-X THRU MAILBOX TURNOUT  
 COMBINED WITH EX EARTH, AGGREGATE, OR HMA CE**

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	PLOT DATE = Jun-06-2014 10:51:47AM	DATE - FEBRUARY 23, 1999	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DISTRICT 6 DETAILS FOR RURAL/URBAN ENTRANCE &  
 MAILBOX TURNOUT W/O CONC GUTTER (3R - PROJECTS)**

SCALE: SHEET NO. 2 OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	(146) RS-4	CASS	28	28
CONTRACT NO. 72F70				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				