

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	1
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

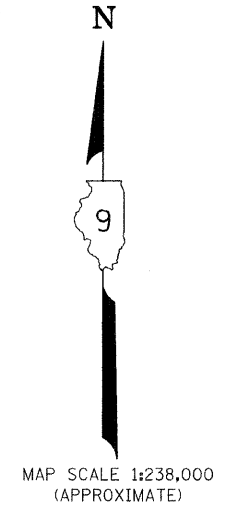
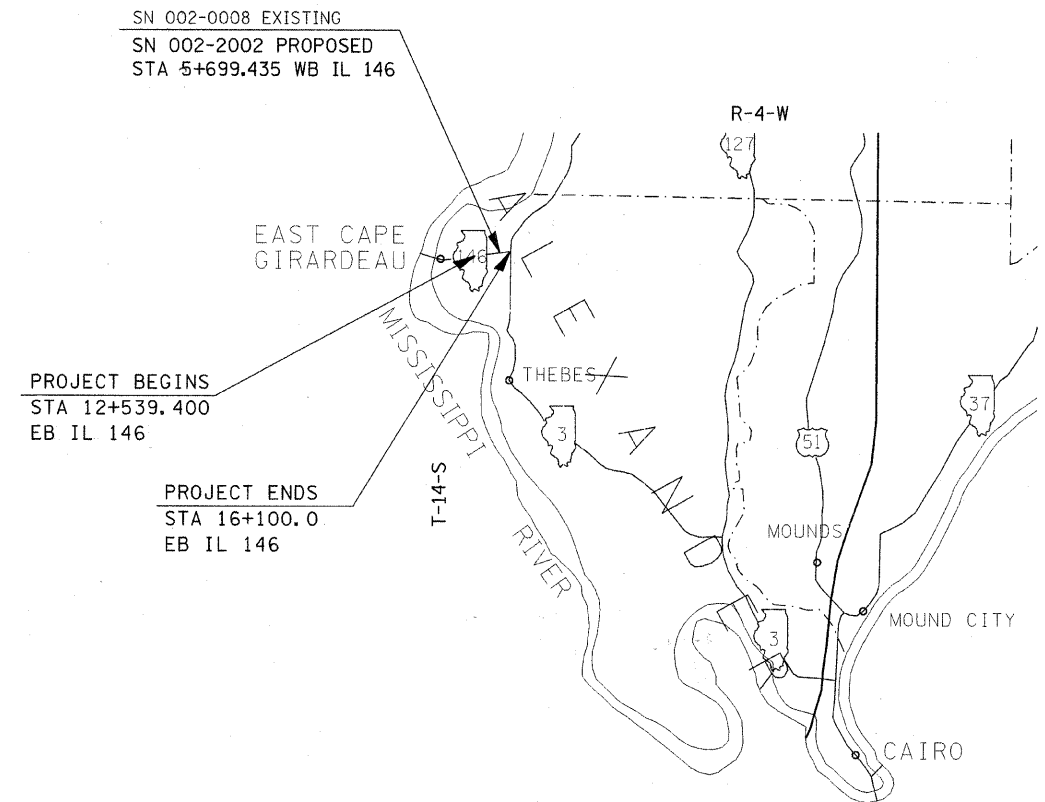
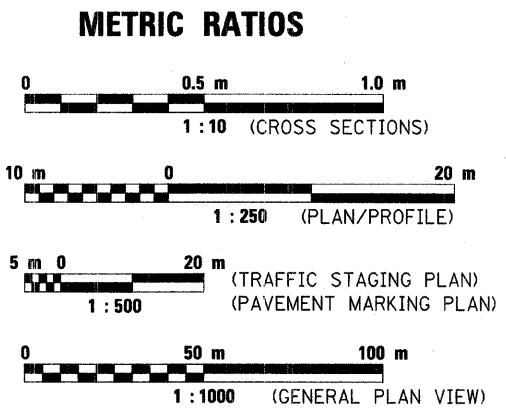
PLANS FOR PROPOSED HIGHWAY
FAP 312 (IL RTE 146)
SECTION 101-2(A,B,R)
PROJECT NO. ACF-ACNHF-0312(034)
ALEXANDER COUNTY
C-99-039-99

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4-6

TRAFFIC DATA FOR 2007
ADT: 10,400 10.3% TRUCKS IL 146



DESIGN DESIGNATION: 1224(20) ARTERIAL 2.63(FD-20)



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.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
www.julio1call.com

CONTRACT NO. 98577
TOWNSHIP: McClure

GRADING PLANS
NET LENGTH OF IMPROVEMENT: 3,560.6 m, 3.5606 km
NET LENGTH OF PROJECT: 3,560.6 m, 3.5606 km

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Oct. 30 20 08
May C. Harris
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 27, 20 09
Charles G. Ingersoll
ENGINEER OF DESIGN AND ENVIRONMENT

March 27, 20 09
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

PROJECT ENGINEER: JOE ZDANKIEWICZ (618) 549-2171
DESIGNER: JAY KRANZ (618) 549-2171

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	2
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

HOT-MIX ASPHALT REQUIREMENTS FOR THIS PROJECT ARE AS FOLLOWS:

LOCATION(S):	HOT-MIX ASPHALT SURFACE COURSE
MIXTURE USE(S):	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N90
AC/PG:	SBS PG76-22
RAP % (MAX):	0
DESIGN AIR VOIDS:	4.0%, 90 GYRATION DESIGN
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-9.5 mm OR IL 12.5 mm
FRICTION AGGREGATE:	D SURFACE

LOCATION(S):	ALL BINDER LIFTS, TEMPORARY PAVEMENT
MIXTURE USE(S):	HOT-MIX ASPHALT BINDER COURSE, N90, IL-19.0
AC/PG:	PG64-22
RAP % (MAX):	10
DESIGN AIR VOIDS:	4.0%, 90 GYRATION DESIGN
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-19.0 mm
FRICTION AGGREGATE:	NONE

LOCATION(S):	HOT-MIX ASPHALT SHOULDERS (200 mm)
MIXTURE USE(S):	HOT-MIX ASPHALT SHOULDERS
AC/PG:	PG58-22
RAP % (MAX):	50
DESIGN AIR VOIDS:	2.0%, 30 GYRATION DESIGN
MIXTURE COMPOSITION: (GRADATION MIXTURE)	HOT-MIX ASPHALT SHOULDERS
FRICTION AGGREGATE:	NONE

INDEX OF SHEETS

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82	DETAILS: CROSS SECTION SHOWING STEP CONSTRUCTION ON EXISTING FILL; SEEDING AND MULCHING; TEMPORARY DITCH CHECKS
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STANDARDS

280001-04	701001-02
482001-02	701006-03
515001-03	701011-02
542201-02	701201-03
542301-02	701301-03
542401-01	701306-02
542531-03	701311-03
542546-01	701326-03
602401-02	701331-02
602701-02	701901-01
604001-03	704001-05
664001-02	780001-02
665001-02	720006-02
666001-01	720011-01
667101-01	729001-01
668001-01	

Prepared By:	<i>Joe Zamboni</i> DISTRICT STUDIES & PLANS ENGINEER
Examined By:	<i>J. B. E.</i> DISTRICT LAND ACQUISITION ENGINEER
Examined By:	<i>Conie Nelson</i> DISTRICT PROGRAM DEVELOPMENT ENGINEER
Examined By:	<i>Winn Krammes</i> DISTRICT OPERATIONS ENGINEER
Examined By:	<i>Jim Amott</i> DISTRICT CONSTRUCTION ENGINEER
Examined By:	<i>Bruce P. P.</i> DISTRICT MATERIALS ENGINEER
Examined By:	<i>Jim Amott</i> DISTRICT PROJECT IMPLEMENTATION ENGINEER
Examined By:	<i>Danny D. Hartman</i> ASSISTANT REGIONAL ENGINEER
Approved By:	<i>Mark C. Almer</i> DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER
DATE	OCT 30 2008

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	4
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

COUNTY:	ACF	ACNHF
LOCATION:	ALEXANDER RURAL	
ROUTE:	IL 146	
FUNDING:	80% FEDERAL/ 20 % STATE	
WORK TYPE:	ROADWAY	BOX CULVERT
	STA 2+539.4 TO STA 6+100	PROPOSED SN 002-2002 EXISTING SN 002-0008
CONSTRUCTION TYPE CODE:	I000-2A	X028-2A
		Y077

CODE NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY			
28000300	TEMPORARY DITCH CHECKS	EACH	67.0	67.0		
28000500	INLET AND PIPE PROTECTION	EACH	18.0	18.0		
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1.0		1.0	
50800515	BAR SPLICERS	EACH	140.0		140.0	
51500100	NAME PLATES	EACH	1.0		1.0	
54244405	FLUSH INLET BOX FOR MEDIAN, STANDARD 542546	EACH	7.0	7.0		
54244505	FLUSH INLET BOX FOR MEDIAN, STANDARD 542546, SPECIAL	EACH	10.0	10.0		
54246405	INLET BOX, STANDARD 542531	EACH	1.0	1.0		
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	13.0	13.0		
66700095	PERMANENT SURVEY MARKERS	EACH	8.0	8.0		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	18.0	18.0		
67100100	MOBILIZATION	L SUM	1.0	1.0		
70100200	TRAFFIC CONTROL AND PROTECTION, STANDARD 701331	EACH	1.0		1.0	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1.0	1.0		
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1.0	1.0		
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1.0	1.0		
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	4.0	4.0		
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	2.0	2.0		
A2C022G3	TREE, CARYA ILLINOINENSIS (PECAN), CONTAINER GROWN, 3-GALLON	EACH	116.0			116.0
A2C030G3	TREE, FAXINUS PENNSYLVANICA (GREEN ASH), CONTAINER GROWN, 3-GALLON	EACH	116.0			116.0
A2C040G3	TREE, PLATANUS OCCIDENTALIS (SYCAMORE), CONTAINER GROWN, 3-GALLON	EACH	116.0			116.0
A2C050G3	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), CONTAINER GROWN, 3-GALLON	EACH	116.0			116.0
A2C071G3	TREE, LIQUIDAMBAR STYRACIFLUA (AMERICAN SWEETGUM), CONTAINER GROWN, 3-GALLON	EACH	116.0			116.0
M2010110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	33.0	33.0		
M2010210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	17.0	17.0		
M2010500	TREE REMOVAL, HECTARES	HA	0.4	0.4		
M2021200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU M	987.1		987.1	
M2020010	EARTH EXCAVATION	CU M	36,788.0	25,996.0		10,792.0
M2040100	BORROW EXCAVATION	CU M	78,659.0	78,659.0		
M2070220	POROUS GRANULAR EMBANKMENT	CU M	939.0		939.0	
M2080150	TRENCH BACKFILL	CU M	848.0	848.0		
M2500350	SEEDING, CLASS 7	HA	15.1	12.0		3.1
M2500400	NITROGEN FERTILIZER NUTRIENT	KG	2,693.0	2,133.0		560.0
M2500500	PHOSPHORUS FERTILIZER NUTRIENT	KG	2,020.0	1,600.0		420.0
M2500600	POTASSIUM FERTILIZER NUTRIENT	KG	2,020.0	1,600.0		420.0
M2500700	AGRICULTURAL GROUND LIMESTONE	M TON	53.2	53.2		
M2501010	SEEDING, CLASS 2 (MODIFIED)	HA	12.0	12.0		
M2502024	SEEDING, CLASS 4B (MODIFIED)	HA	3.1			3.1

* SPECIALTY ITEMS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES 1 OF 3

SCALE: VERT.
HORIZ.
DATE

DRAWN BY JCK
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	5
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES

COUNTY:	ACF	ACNHF
LOCATION:	ALEXANDER RURAL	
ROUTE:	IL 146	
FUNDING:	80% FEDERAL/ 20 % STATE	
WORK TYPE:	ROADWAY	BOX CULVERT
	STA 2+539.4 TO STA 6+100	PROPOSED SN 002-2002 EXISTING SN 002-0008
CONSTRUCTION TYPE CODE:	I000-2A	X028-2A
		Y077

CODE NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY		
*M2510115	MULCH, METHOD 2	HA	30.2	24.0	6.2
*M2510630	EROSION CONTROL BLANKET	SQ M	42,529.0	42,529.0	
*M2511005	HEAVY DUTY EXCELSIOR BLANKET	SQ M	1,306.0	1,224.0	82.0
M2800250	TEMPORARY EROSION CONTROL SEEDING	KG	1,662.0	1,320.0	342.0
M2800400	PERIMETER EROSION BARRIER	METER	439.0	439.0	
M2810107	STONE RIPRAP, CLASS A4	SQ M	147.0		147.0
M2810201	STONE RIPRAP, CLASS A1	M TON	1,682.0		1,682.0
M2820200	FILTER FABRIC	SQ M	147.0		147.0
M3110010	SUB-BASE GRANULAR MATERIAL, TYPE A	M TON	10,666.0	10,043.0	623.0
M4020010	AGGREGATE SURFACE COURSE, TYPE A	M TON	46.0	46.0	
M4060100	BITUMINOUS MATERIALS (PRIME COAT)	LITER	4,615.0	4,260.8	354.2
M4063090	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	M TON	1,485.0	1,397.2	87.8
M4063545	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	M TON	21.0		21.0
M4402000	PAVEMENT REMOVAL	SQ M	2,290.0	2,114.6	175.4
M4402530	PAVED SHOULDER REMOVAL	SQ M	729.0	671.6	57.4
M4820600	HOT-MIX ASPHALT SHOULDERS, 200MM	SQ M	583.0	525.6	57.4
M5010522	PIPE CULVERT REMOVAL	METER	143.0	143.0	
M5020450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU M	987.0		987.0
M5080105	REINFORCEMENT BARS	KG	91.0		91.0
M5080205	REINFORCEMENT BARS, EPOXY COATED	KG	36,000.0		36,000.0
M5120900	TEMPORARY SHEET PILING	SQ M	95.0		95.0
M5401010	PRECAST CONCRETE BOX CULVERT 900MM X 600MM	METER	24.2	24.2	
M5403000	CONCRETE BOX CULVERTS	CU M	347.6		347.6
M542E016	END SECTIONS 375MM	EACH	22.0	22.0	
M542E128	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 600MM	EACH	7.0	7.0	
M542E136	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 750MM	EACH	2.0	2.0	
M542F236	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 750MM	EACH	1.0	1.0	
M542H040	PIPE CULVERTS, CLASS A, TYPE 1 600MM	METER	68.9	68.9	
M542H050	PIPE CULVERTS, CLASS A, TYPE 1 750MM	METER	25.0	25.0	
M542H425	PIPE CULVERTS, CLASS D, TYPE 1 375MM	METER	59.3	59.3	
M542I040	PIPE CULVERTS, CLASS A, TYPE 2 600MM	METER	102.1	102.1	
M542I050	PIPE CULVERTS, CLASS A, TYPE 2 750MM	METER	240.5	240.5	
M542I425	PIPE CULVERTS, CLASS D TYPE 2 375MM	METER	86.0	86.0	
M542R136	REMOVE AND RELAY PIPE CULVERTS 750MM	METER	11.5	11.5	

* SPECIALTY ITEMS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES 2 OF 3

SCALE: VERT. / HORIZ.
DATE

DRAWN BY JCK
CHECKED BY

PLOT DATE = 11/25/2008
 FILE NAME = c:\new\work\AP\PROJECT\KRNANZ\CD\sums\98577\sums32
 PLOT SCALE = 50.0000 / IN.
 USER NAME = krenzje

REV.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	6
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

COUNTY:	ACF	ACNHF
LOCATION:	ALEXANDER RURAL	
ROUTE:	IL 146	
FUNDING:	80% FEDERAL/ 20 % STATE	
WORK TYPE:	ROADWAY	BOX CULVERT
	STA 2+539.4 TO STA 6+100	PROPOSED SN 002-2002 EXISTING SN 002-0008
CONSTRUCTION TYPE CODE:	I000-2A	X028-2A
		Y077

CODE NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY		
M6021410	MANHOLES, TYPE A, 1.2M DIAMETER, TYPE I FRAME, CLOSED LID	EACH	1.0	1.0	
M6320030	GUARDRAIL REMOVAL	METER	198.0	198.0	
M6320040	CABLE ROAD GUARD REMOVAL	METER	165.0	165.0	
M6640100	CHAIN LINK FENCE, 1.2 METER	METER	920.0	920.0	
M6650100	WOVEN WIRE FENCE, 1.2 METER	METER	6,319.0	6,319.0	
M6650380	WOVEN WIRE GATES, 1.2M X 7.3M DOUBLE	EACH	15.0	15.0	
M7030505	PAVEMENT MARKING TAPE, TYPE III (SPECIAL)	METER	1,616.0	1,616.0	
M7030620	TEMPORARY PAINT PAVEMENT MARKING LINE 100MM	METER	900.0	900.0	
M7031000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ M	60.0	60.0	
M7040100	TEMPORARY CONCRETE BARRIER	METER	262.2	262.2	
* M7200100	SIGN PANEL - TYPE 1	SQ M	3.0	3.0	
* M7290100	METAL POST - TYPE A	METER	52.0	52.0	
* M7800205	PAINT PAVEMENT MARKING - LINE 100MM	METER	900.0	900.0	
M7830100	PAVEMENT MARKING REMOVAL	SQ M	34.0	34.0	
MX032188	CLASS SI CONCRETE, SPECIAL	CU M	5.1		5.1
MX032509	GRADING AND SHAPING SPECIAL	SQ M	1,428.0	1,428.0	
MX032842	BOX CULVERT REMOVAL	METER	3.0	3.0	
MX033189	WEED CONTROL, NON-SELECTIVE AND NON-RESIDUAL	LITER	1,164.0		1,164.0
MZ022800	FENCE REMOVAL	METER	38.0	38.0	
* MZ054500	ROCK FILL	M TON	26,957.0	26,957.0	
X0320547	REMOVE AND REINSTALL END SECTION	EACH	9.0	9.0	
X0322054	REMOVAL OF PRECAST FLARED END SECTION	EACH	3.0	3.0	
XX004033	CLEAN EXISTING CULVERTS	EACH	6.0	6.0	
Z0007601	BUILDING REMOVAL NO. 1	L SUM	1.0	1.0	
Z0007602	BUILDING REMOVAL NO. 2	L SUM	1.0	1.0	
Z0007603	BUILDING REMOVAL NO. 3	L SUM	1.0	1.0	
Z0007604	BUILDING REMOVAL NO. 4	L SUM	1.0	1.0	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.0	1.0	
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2.0	2.0	
⓪ Z0076600	TRAINEES	HOUR	500.0	500.0	
A2C00G03	TREE, DIOSPYROS VIRGINIANA (PERSIMMON), CONTAINER GROWN, 3-GALLON	EACH	116.0		116.0
MX033760	50MMX200MMX1.2M PRESSURE TREATED LUMBER	EACH	3.0		3.0

* SPECIALTY ITEMS
⓪ Y080

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES 3 OF 3 SCALE: VERT. / HORIZ. DATE	DRAWN BY JCK CHECKED BY
NAME	DATE		

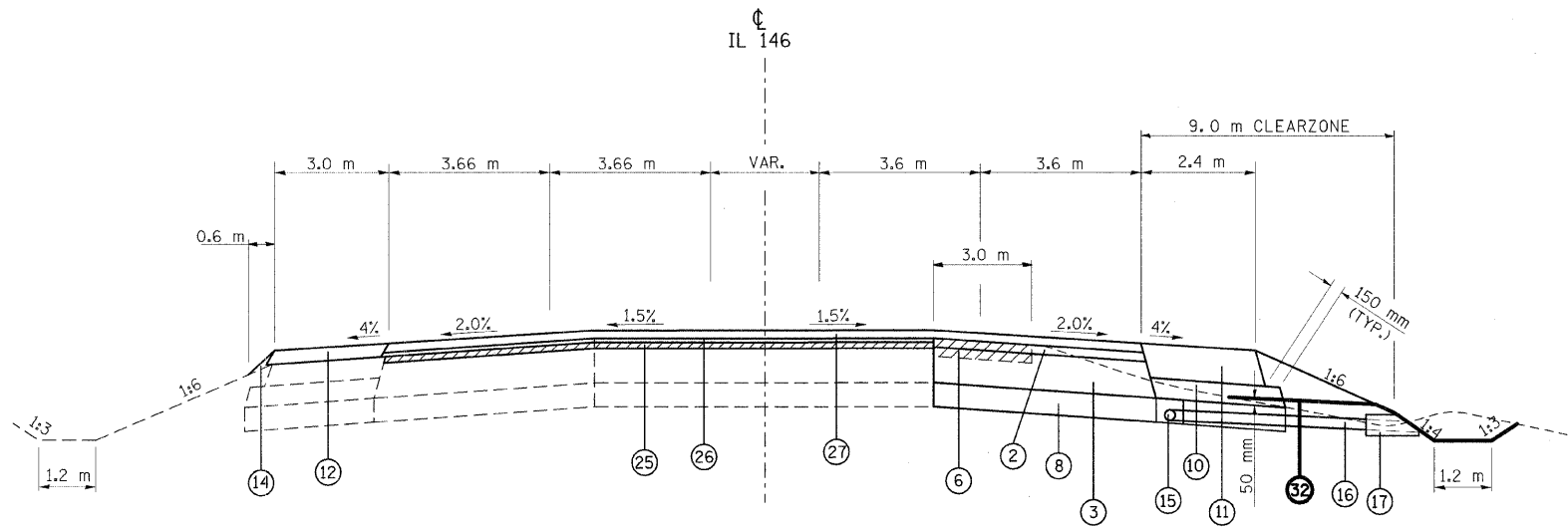
PLOT DATE = 11/25/2008
 PLOT SCALE = 50:1
 USER NAME = kranzjc

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	7
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

IL 146
 STRUCTURAL DESIGN TRAFFIC: Year 2005
 PV = 7450 SU = 600 MU = 650
 ROAD/STREET CLASSIFICATION: Class I
 PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:
 P = 32% S = 45% M = 45%
 TRAFFIC FACTOR: Actual TF = 4.48 AC Type = 20
 Minimum TF = 4.27
 PG GRADE: SURFACE: SBS PG76-22
 TOP LIFT BINDER: SBS PG76-22
 LOWER LIFTS BINDER: PG64-22
 SUB-GRADE SUPPORT RATING:
 SSR = POOR (STA. 12+539.4 TO 16+100)

TYPICALS

BOLD ITEMS ONLY CONSTRUCTED IN THIS CONTRACT



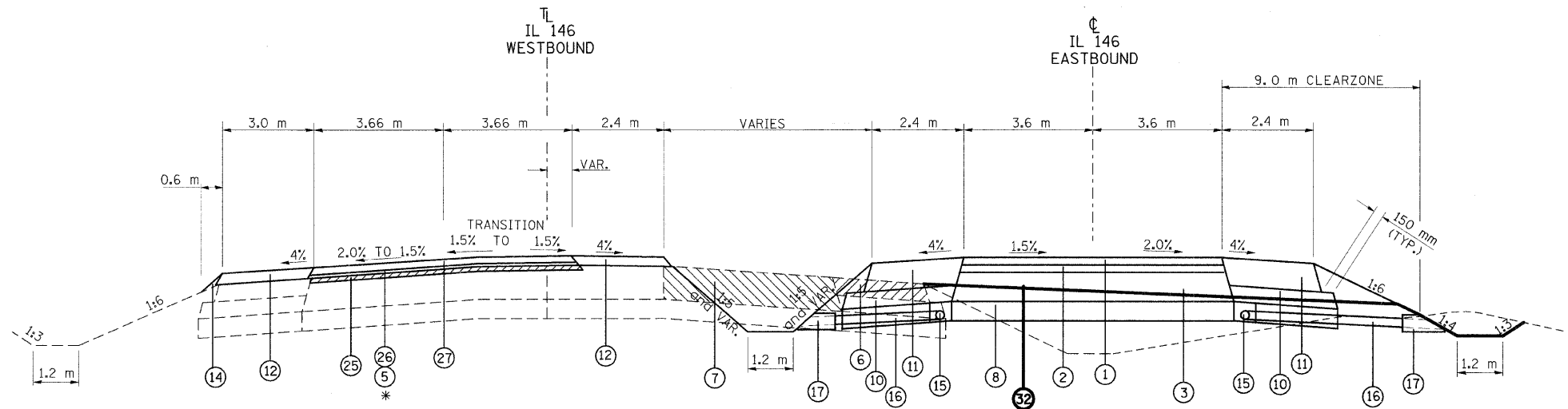
TO BE USED:

EB STA. 12+539.4 TO STA. 12+635.6
 WB STA. 2+539.4 TO STA. 2+635.6

NOTE:
 HOT-MIX ASPHALT SURFACE REMOVAL VARIABLE DEPTH AND POLYMERIZED LEVELING BINDER SHALL BE USED TO CORRECT THE PAVEMENT SLOPE.

TO BE CONSTRUCTED DURING FUTURE CONTRACT

- ① POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX. D, N90 50MM
- ② POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 38MM AND VARIABLE
- ③ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 292MM
- ④ ROCKFILL**
- ⑤ POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 57MM AND VARIABLE
- ⑥ PAVED SHOULDER REMOVAL
- ⑦ PAVEMENT REMOVAL
- ⑧ PROCESSING LIME MODIFIED SOILS 300MM
- ⑨ SUB-BASE GRANULAR MATERIAL, TYPE A 300MM**
- ⑩ SUB-BASE GRANULAR MATERIAL, TYPE C
- ⑪ HOT-MIX ASPHALT SHOULDERS, 200MM
- ⑫ HOT-MIX ASPHALT SHOULDERS, M. TON 95MM AND VARIABLE
- ⑬ AGGREGATE SHOULDERS, TYPE A 200MM
- ⑭ AGGREGATE WEDGE SHOULDER, TYPE B
- ⑮ PIPE UNDERDRAIN 100MM
- ⑯ PIPE UNDERDRAIN 100MM (SPECIAL)
- ⑰ CONCRETE HEADWALL FOR PIPE DRAINS
- ⑱ COMBINATION CONCRETE CURB AND GUTTER TYPE M-15.60
- ⑲ COMBINATION CONCRETE CURB AND GUTTER TYPE M-15.15
- ⑳ CONCRETE MEDIAN SURFACE, 100MM
- ㉑ COURSE AGGREGATE, CA7 OR CA11
- ㉒ HOT-MIX ASPHALT BASE COURSE, 285MM
- ㉓ SUB-BASE GRANULAR MATERIAL, TYPE A 100MM
- ㉔ PORTLAND CEMENT CONCRETE PAVEMENT 250MM (JOINTED)
- ㉕ HOT-MIX ASPHALT SURFACE REMOVAL 15MM AND VARIABLE
- ㉖ POLYMERIZED LEVELING BINDER (MACHINE METHOD), N90 VARIABLE
- ㉗ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N90 38MM
- ㉘ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 285MM
- ㉙ HOT-MIX ASPHALT SHOULDERS, 250MM
- ㉚ AGGREGATE SHOULDERS, TYPE A 250MM
- ㉛ STRIP REFLECTIVE CRACK CONTROL TREATMENT
- ㉜ GRADE LINE**
- ㉝ STABILIZED SUB-BASE-HOT-MIX ASPHALT, 100MM
- ㉞ UNSTABLE SOIL**



TO BE USED:

EB STA. 12+635.6 TO STA. 12+700
 WB STA. 2+635.6 TO STA. 2+700

NOTE:
 HOT-MIX ASPHALT SURFACE REMOVAL VARIABLE DEPTH, POLYMERIZED LEVELING BINDER AND POLYMERIZED HOT-MIX ASPHALT BINDER COURSE SHALL BE USED TO CORRECT THE PAVEMENT SLOPE.

* ㉖ ENDS AT STA. 2+650
 ⑤ BEGINS AT STA. 2+650

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPICALS

SCALE: VERT. NONE
 HORIZ. DATE

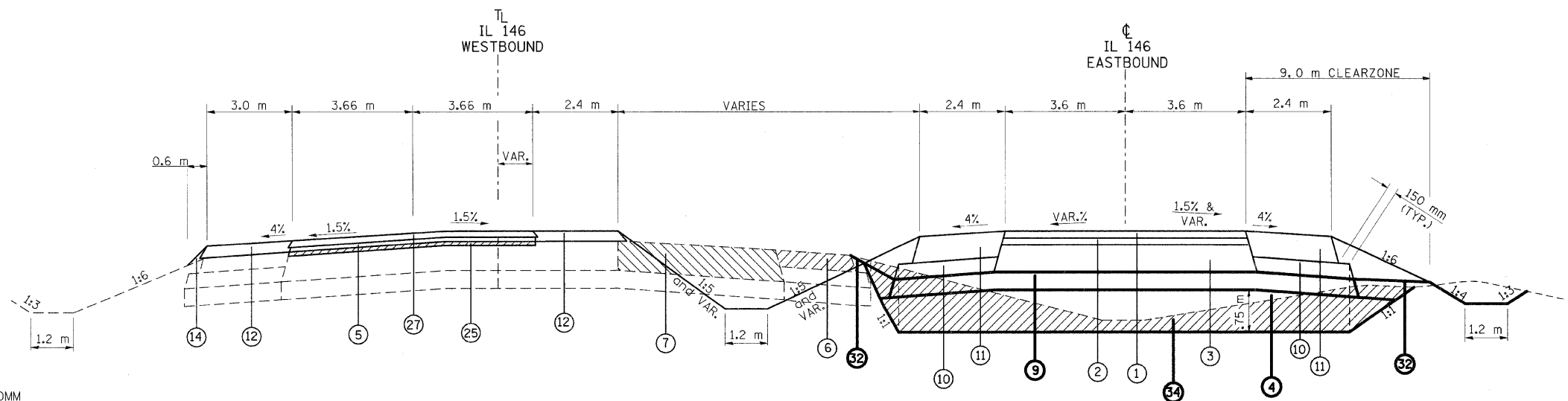
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 CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	8

STA.	TO STA.
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

TYPICALS

BOLD ITEMS ONLY CONSTRUCTED IN THIS CONTRACT

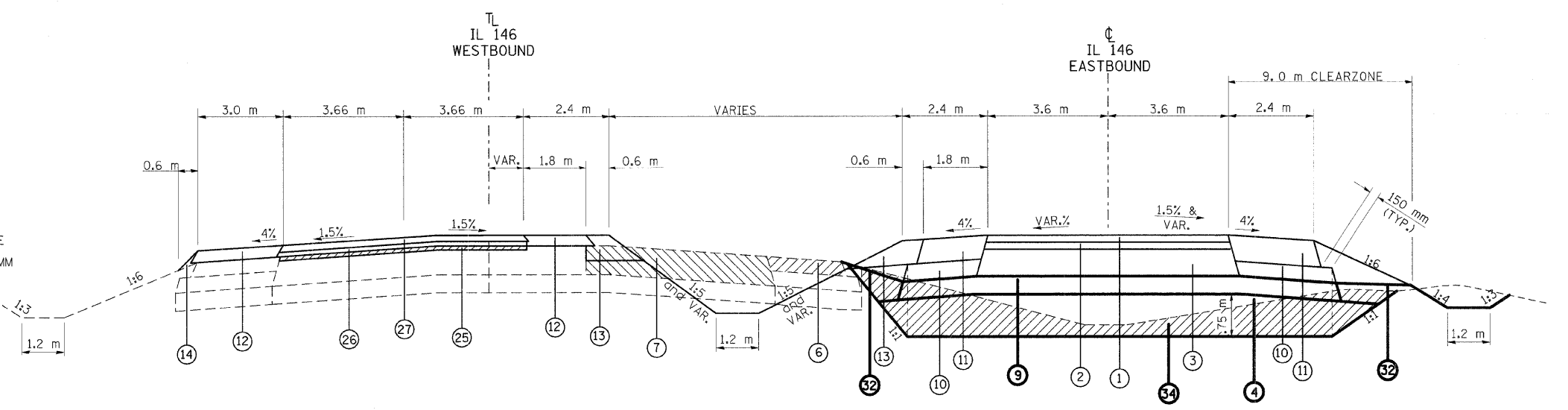


TO BE USED:
 EB STA. 12+700 TO STA. 12+750
 WB STA. 2+700 TO STA. 2+750

NOTE:
 HOT-MIX ASPHALT SURFACE REMOVAL VARIABLE DEPTH AND POLYMERIZED
 HOT-MIX ASPHALT BINDER COURSE SHALL BE USED TO CORRECT THE
 PAVEMENT SLOPE.

- ① POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX. D, N90 50MM
- ② POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 38MM AND VARIABLE
- ③ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 292MM
- ④ ROCKFILL**
- ⑤ POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 57MM AND VARIABLE
- ⑥ PAVED SHOULDER REMOVAL
- ⑦ PAVEMENT REMOVAL
- ⑧ PROCESSING LIME MODIFIED SOILS 300MM
- ⑨ SUB-BASE GRANULAR MATERIAL, TYPE A 300MM**
- ⑩ SUB-BASE GRANULAR MATERIAL, TYPE C
- ⑪ HOT-MIX ASPHALT SHOULDERS, 200MM
- ⑫ HOT-MIX ASPHALT SHOULDERS, M. TON 95MM AND VARIAB;E
- ⑬ AGGREGATE SHOULDERS, TYPE A 200MM
- ⑭ AGGREGATE WEDGE SHOULDER, TYPE B
- ⑮ PIPE UNDERDRAIN 100MM
- ⑯ PIPE UNDERDRAIN 100MM (SPECIAL)
- ⑰ CONCRETE HEADWALL FOR PIPE DRAINS
- ⑱ COMBINATION CONCRETE CURB AND GUTTER TYPE M-15.60
- ⑲ COMBINATION CONCRETE CURB AND GUTTER TYPE M-15.15
- ⑳ CONCRETE MEDIAN SURFACE, 100MM
- ㉑ COURSE AGGREGATE, CA7 OR CA11
- ㉒ HOT-MIX ASPHALT BASE COURSE, 285MM
- ㉓ SUB-BASE GRANULAR MATERIAL, TYPE A 100MM
- ㉔ PORTLAND CEMENT CONCRETE PAVEMENT 250MM (JOINTED)
- ㉕ HOT-MIX ASPHALT SURFACE REMOVAL 15MM AND VARIABLE
- ㉖ POLYMERIZED LEVELING BINDER (MACHINE METHOD), N90 VARIABLE
- ㉗ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N90 38MM
- ㉘ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 285MM
- ㉙ HOT-MIX ASPHALT SHOULDERS, 250MM
- ㉚ AGGREGATE SHOULDERS, TYPE A 250MM
- ㉛ STRIP REFLECTIVE CRACK CONTROL TREATMENT
- ㉜ GRADE LINE**
- ㉝ STABILIZED SUB-BASE-HOT-MIX ASPHALT, 100MM
- ㉞ UNSTABLE SOIL**

TO BE CONSTRUCTED DURING FUTURE CONTRACT



TO BE USED:
 EB STA. 12+750 TO STA. 12+820
 WB STA. 2+750 TO STA. 2+820

NOTE:
 HOT-MIX ASPHALT SURFACE REMOVAL VARIABLE DEPTH AND POLYMERIZED
 HOT-MIX ASPHALT BINDER COURSE SHALL BE USED TO CORRECT THE
 PAVEMENT SLOPE.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

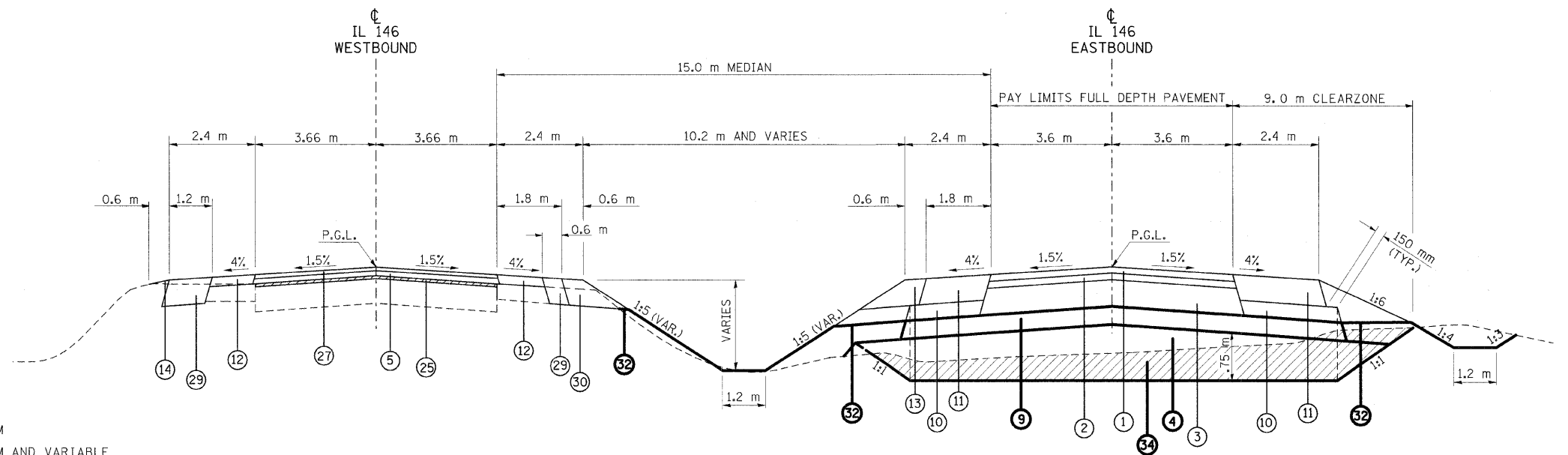
TYPICALS

SCALE: VERT. NONE
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 DRAWN BY CNH
 CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	9
STA. TO STA.		ILLINOIS FED. AID PROJECT		

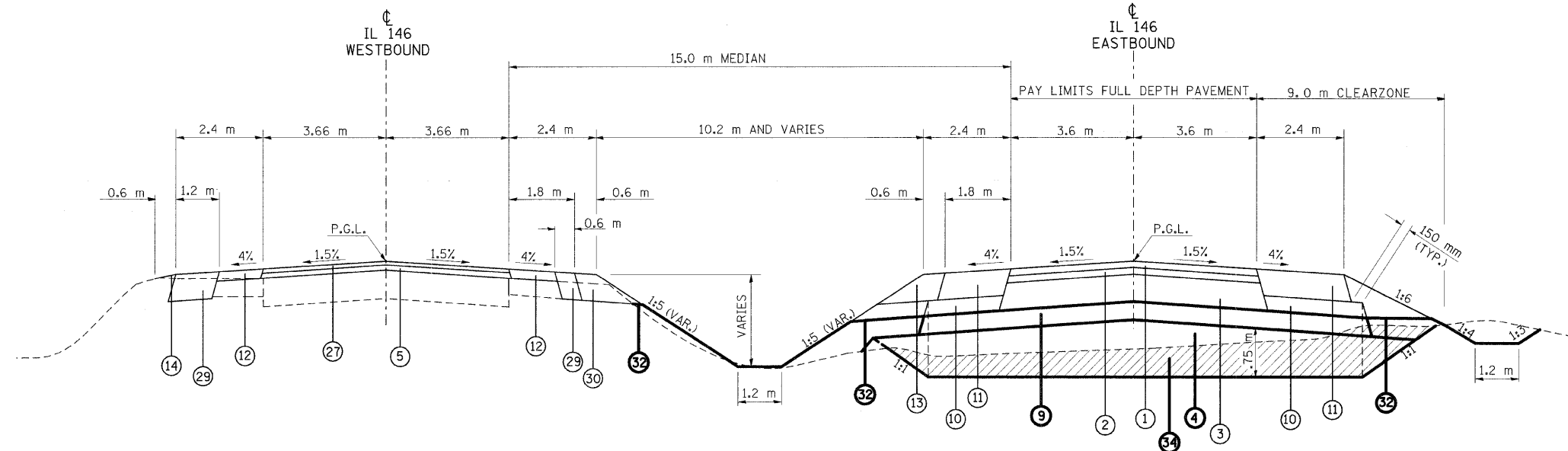
TYPICALS

BOLD ITEMS ONLY CONSTRUCTED IN THIS CONTRACT



TO BE USED:

EB STA. 12+820 TO STA. 12+900
WB STA. 2+820 TO STA. 2+900



TO BE USED:

EB STA. 12+900 TO STA. 13+050 WB STA. 2+900 TO STA. 3+050
EB STA. 13+350 TO STA. 13+880 WB STA. 3+350 TO STA. 3+880
EB STA. 14+290 TO STA. 14+375 * WB STA. 4+290 TO STA. 4+375

- 1 POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX. D, N90 50MM
- 2 POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 38MM AND VARIABLE
- 3 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 292MM
- 4 ROCKFILL**
- 5 POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 57MM AND VARIABLE
- 6 PAVED SHOULDER REMOVAL
- 7 PAVEMENT REMOVAL
- 8 PROCESSING LIME MODIFIED SOILS 300MM
- 9 SUB-BASE GRANULAR MATERIAL, TYPE A 300MM**
- 10 SUB-BASE GRANULAR MATERIAL, TYPE C
- 11 HOT-MIX ASPHALT SHOULDERS, 200MM
- 12 HOT-MIX ASPHALT SHOULDERS, M. TON 95MM AND VARIABLE
- 13 AGGREGATE SHOULDERS, TYPE A 200MM
- 14 AGGREGATE WEDGE SHOULDER, TYPE B
- 15 PIPE UNDERDRAIN 100MM
- 16 PIPE UNDERDRAIN 100MM (SPECIAL)
- 17 CONCRETE HEADWALL FOR PIPE DRAINS
- 18 COMBINATION CONCRETE CURB AND GUTTER TYPE M-15.60
- 19 COMBINATION CONCRETE CURB AND GUTTER TYPE M-15.15
- 20 CONCRETE MEDIAN SURFACE, 100MM
- 21 COURSE AGGREGATE, CA7 OR CA11
- 22 HOT-MIX ASPHALT BASE COURSE, 285MM
- 23 SUB-BASE GRANULAR MATERIAL, TYPE A 100MM
- 24 PORTLAND CEMENT CONCRETE PAVEMENT 250MM (JOINTED)
- 25 HOT-MIX ASPHALT SURFACE REMOVAL 15MM AND VARIABLE
- 26 POLYMERIZED LEVELING BINDER (MACHINE METHOD), N90 VARIABLE
- 27 POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N90 38MM
- 28 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 285MM
- 29 HOT-MIX ASPHALT SHOULDERS, 250MM
- 30 AGGREGATE SHOULDERS, TYPE A 250MM
- 31 STRIP REFLECTIVE CRACK CONTROL TREATMENT
- 32 GRADE LINE**
- 33 STABILIZED SUB-BASE-HOT-MIX ASPHALT, 100MM
- 34 UNSTABLE SOIL**

* SEE PORTABLE SCALE TURNOUT DETAIL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPICALS

SCALE: VERT. NONE
HORIZ. DATE

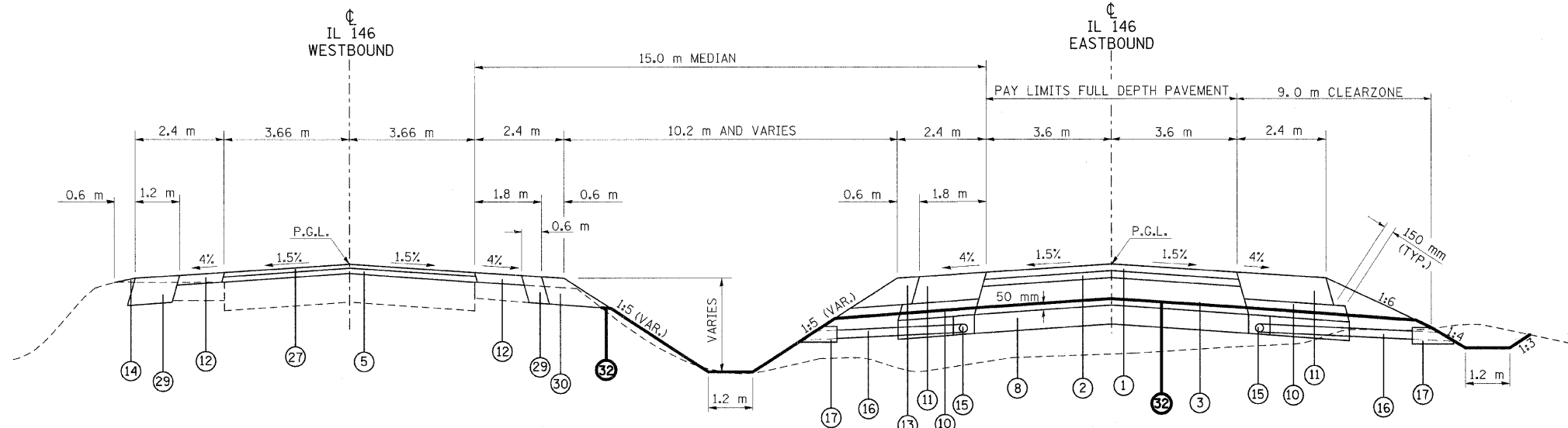
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 USER NAME = headdon

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	10
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

BOLD ITEMS ONLY CONSTRUCTED IN THIS CONTRACT

TYPICALS



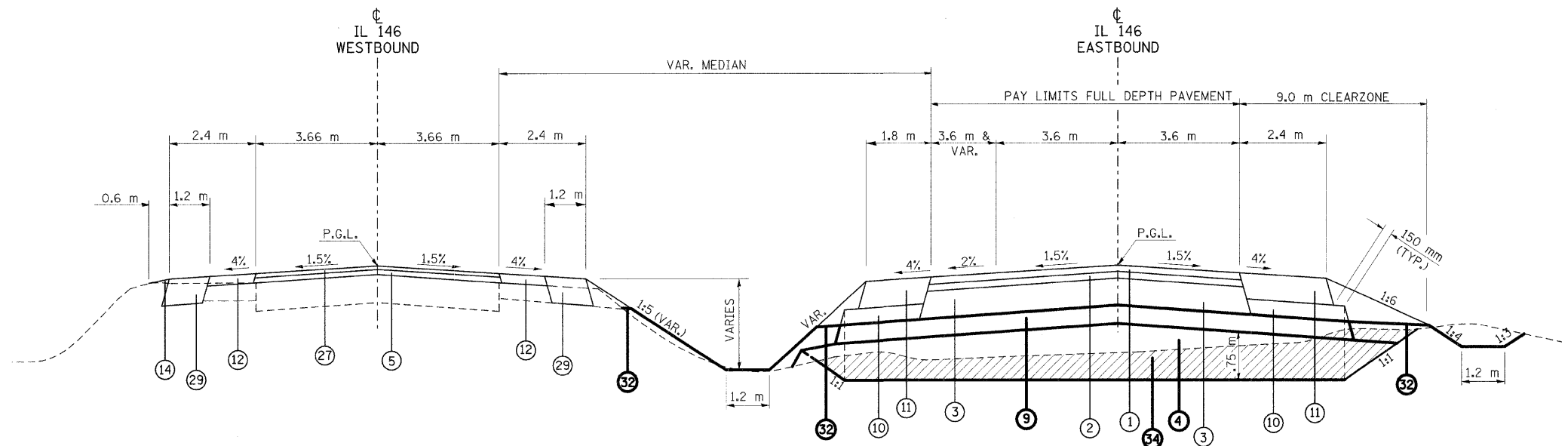
TO BE USED:

EB STA. 13+050 TO STA. 13+350 WB STA. 3+050 TO STA. 3+350
 EB STA. 14+277.5 TO STA. 14+290 * WB STA. 4+277.5 TO STA. 4+290
 EB STA. 14+375 TO STA. 15+921.3 * WB STA. 4+375 TO STA. 5+921.3

* SEE PORTABLE SCALE TURNOUT DETAIL

TO BE CONSTRUCTED DURING FUTURE CONTRACT

- ① POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX. D, N90 50MM
- ② POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 38MM AND VARIABLE
- ③ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 292MM
- ④ ROCKFILL**
- ⑤ POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 57MM AND VARIABLE
- ⑥ PAVED SHOULDER REMOVAL
- ⑦ PAVEMENT REMOVAL
- ⑧ PROCESSING LIME MODIFIED SOILS 300MM
- ⑨ SUB-BASE GRANULAR MATERIAL, TYPE A 300MM**
- ⑩ SUB-BASE GRANULAR MATERIAL, TYPE C
- ⑪ HOT-MIX ASPHALT SHOULDERS, 200MM
- ⑫ HOT-MIX ASPHALT SHOULDERS, M. TON 95MM AND VARIABLE
- ⑬ AGGREGATE SHOULDERS, TYPE A 200MM
- ⑭ AGGREGATE WEDGE SHOULDER, TYPE B
- ⑮ PIPE UNDERDRAIN 100MM
- ⑯ PIPE UNDERDRAIN 100MM (SPECIAL)
- ⑰ CONCRETE HEADWALL FOR PIPE DRAINS
- ⑱ COMBINATION CONCRETE CURB AND GUTTER TYPE M-15.60
- ⑲ COMBINATION CONCRETE CURB AND GUTTER TYPE M-15.15
- ⑳ CONCRETE MEDIAN SURFACE, 100MM
- ㉑ COURSE AGGREGATE, CA7 OR CA11
- ㉒ HOT-MIX ASPHALT BASE COURSE, 285MM
- ㉓ SUB-BASE GRANULAR MATERIAL, TYPE A 100MM
- ㉔ PORTLAND CEMENT CONCRETE PAVEMENT 250MM (JOINTED)
- ㉕ HOT-MIX ASPHALT SURFACE REMOVAL 15MM AND VARIABLE
- ㉖ POLYMERIZED LEVELING BINDER (MACHINE METHOD), N90 VARIABLE
- ㉗ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N90 38MM
- ㉘ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 285MM
- ㉙ HOT-MIX ASPHALT SHOULDERS, 250MM
- ㉚ AGGREGATE SHOULDERS, TYPE A 250MM
- ㉛ STRIP REFLECTIVE CRACK CONTROL TREATMENT
- ㉜ GRADE LINE**
- ㉝ STABILIZED SUB-BASE-HOT-MIX ASPHALT, 100MM
- ㉞ UNSTABLE SOIL**



TO BE USED:

EB STA. 13+880 TO STA. 13+975
 WB STA. 3+880 TO STA. 3+975

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPICALS

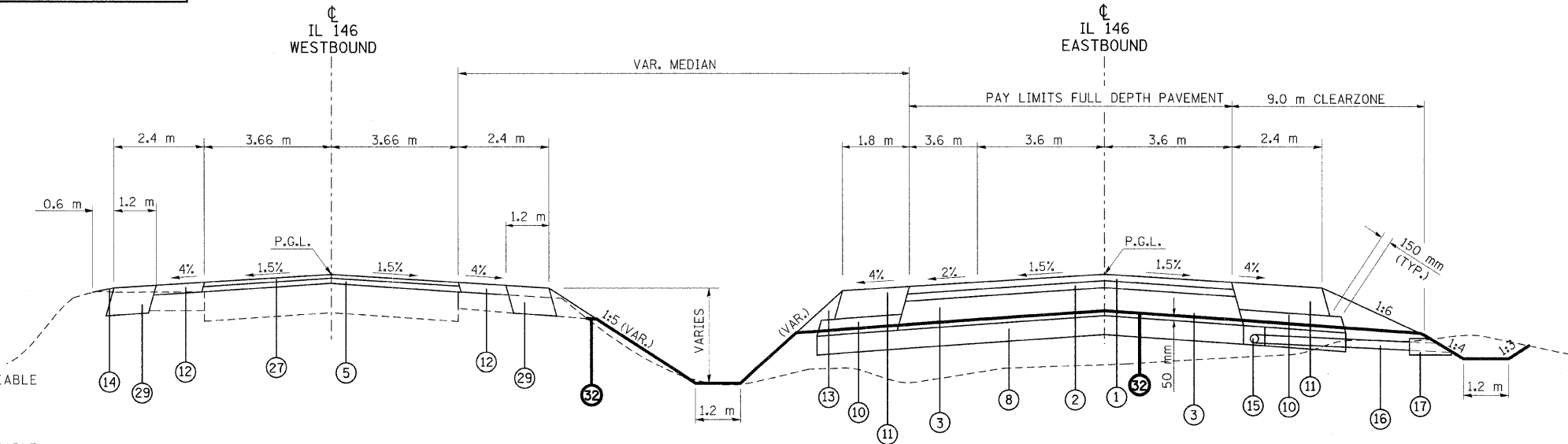
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DRAWN BY CNH
 CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	11
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

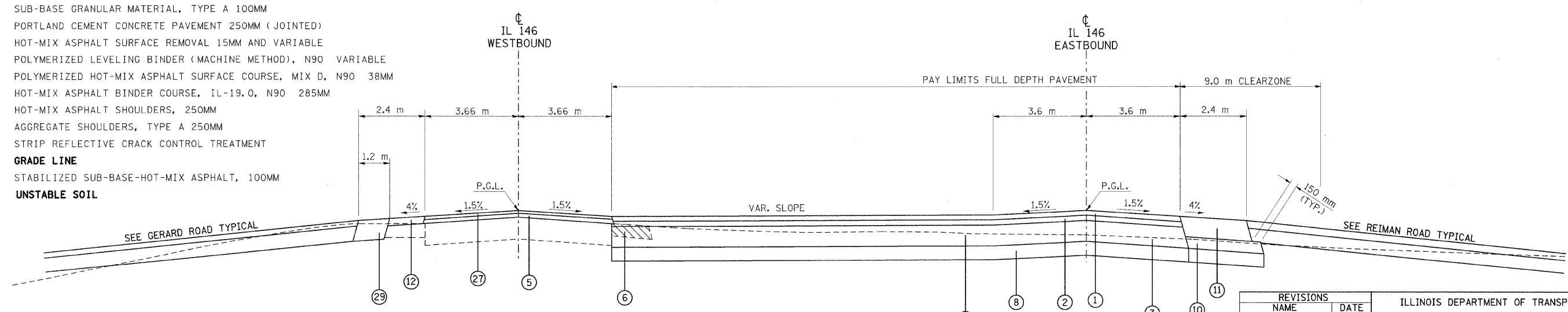
BOLD ITEMS ONLY CONSTRUCTED IN THIS CONTRACT

TYPICALS



TO BE USED:
 EB STA. 13+975 TO STA. 14+060
 WB STA. 3+975 TO STA. 4+060

- TO BE CONSTRUCTED DURING FUTURE CONTRACT**
- ① POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX. D, N90 50MM
 - ② POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 38MM AND VARIABLE
 - ③ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 292MM
 - ④ ROCKFILL**
 - ⑤ POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 57MM AND VARIABLE
 - ⑥ PAVED SHOULDER REMOVAL
 - ⑦ PAVEMENT REMOVAL
 - ⑧ PROCESSING LIME MODIFIED SOILS 300MM
 - ⑨ SUB-BASE GRANULAR MATERIAL, TYPE A 300MM**
 - ⑩ SUB-BASE GRANULAR MATERIAL, TYPE C
 - ⑪ HOT-MIX ASPHALT SHOULDERS, 200MM
 - ⑫ HOT-MIX ASPHALT SHOULDERS, M. TON 95MM AND VARIABLE
 - ⑬ AGGREGATE SHOULDERS, TYPE A 200MM
 - ⑭ AGGREGATE WEDGE SHOULDER, TYPE B
 - ⑮ PIPE UNDERDRAIN 100MM
 - ⑯ PIPE UNDERDRAIN 100MM (SPECIAL)
 - ⑰ CONCRETE HEADWALL FOR PIPE DRAINS
 - ⑱ COMBINATION CONCRETE CURB AND GUTTER TYPE M-15.60
 - ⑲ COMBINATION CONCRETE CURB AND GUTTER TYPE M-15.15
 - ⑳ CONCRETE MEDIAN SURFACE, 100MM
 - ㉑ COURSE AGGREGATE, CA7 OR CA11
 - ㉒ HOT-MIX ASPHALT BASE COURSE, 285MM
 - ㉓ SUB-BASE GRANULAR MATERIAL, TYPE A 100MM
 - ㉔ PORTLAND CEMENT CONCRETE PAVEMENT 250MM (JOINTED)
 - ㉕ HOT-MIX ASPHALT SURFACE REMOVAL 15MM AND VARIABLE
 - ㉖ POLYMERIZED LEVELING BINDER (MACHINE METHOD), N90 VARIABLE
 - ㉗ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N90 38MM
 - ㉘ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 285MM
 - ㉙ HOT-MIX ASPHALT SHOULDERS, 250MM
 - ㉚ AGGREGATE SHOULDERS, TYPE A 250MM
 - ㉛ STRIP REFLECTIVE CRACK CONTROL TREATMENT
 - ㉜ GRADE LINE**
 - ㉝ STABILIZED SUB-BASE-HOT-MIX ASPHALT, 100MM
 - ㉞ UNSTABLE SOIL**



GRADING WILL GAP THIS INTERSECTION

TO BE USED:
 EB STA. 14+060 TO STA. 14+097
 WB STA. 4+060 TO STA. 4+097

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPICALS

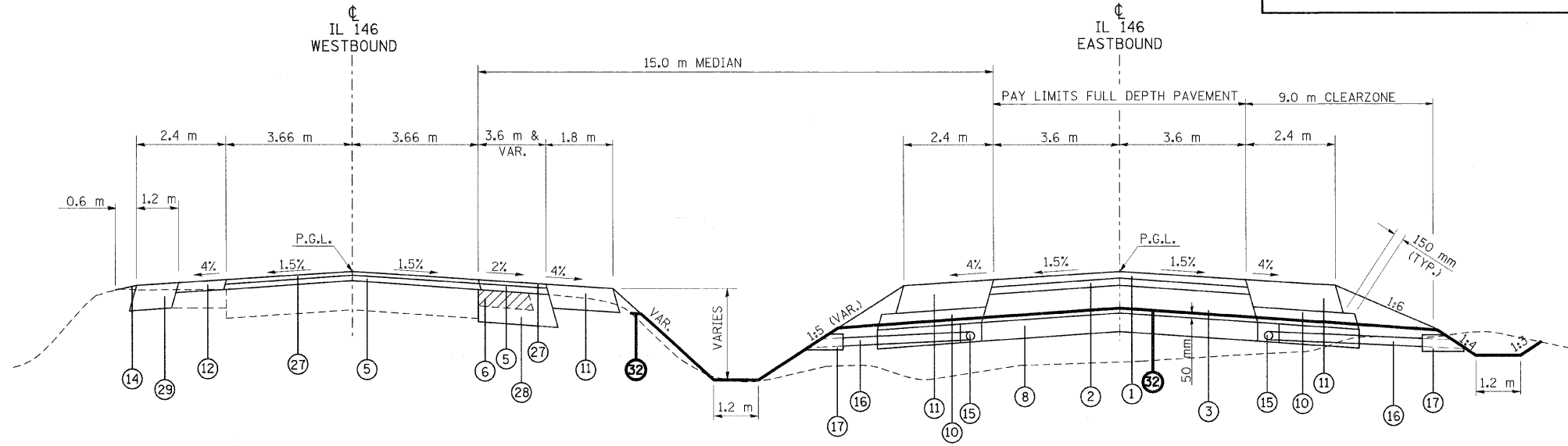
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 CHECKED BY

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	12
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

TYPICALS

BOLD ITEMS ONLY CONSTRUCTED IN THIS CONTRACT



TO BE USED:

EB STA. 14+097 TO STA. 14+277.5
 WB STA. 4+097 TO STA. 4+277.5

TO BE CONSTRUCTED DURING FUTURE CONTRACT

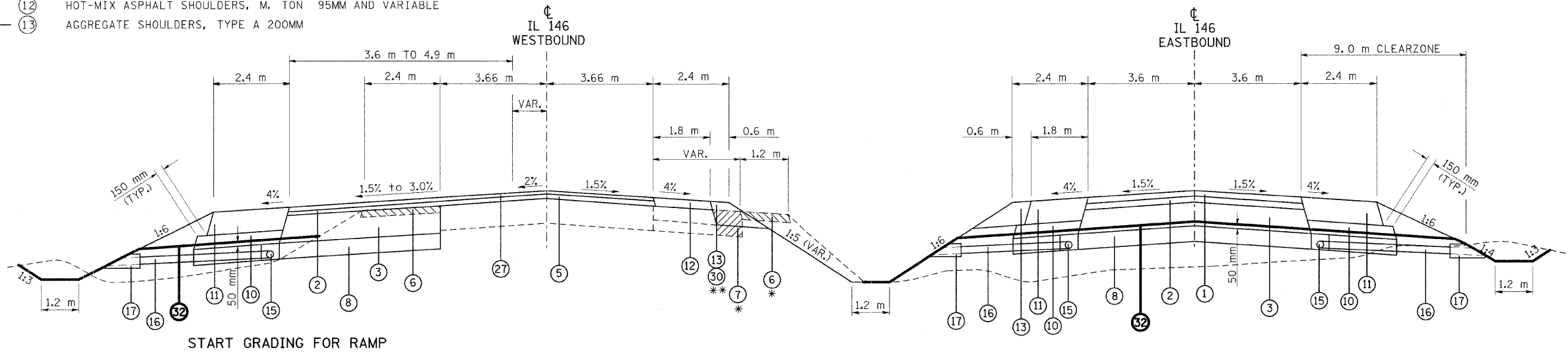
- 1 POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX. D, N90 50MM
- 2 POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 38MM AND VARIABLE
- 3 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 292MM
- 4 ROCKFILL**
- 5 POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 57MM AND VARIABLE
- 6 PAVED SHOULDER REMOVAL
- 7 PAVEMENT REMOVAL
- 8 PROCESSING LIME MODIFIED SOILS 300MM
- 9 SUB-BASE GRANULAR MATERIAL, TYPE A 300MM**
- 10 SUB-BASE GRANULAR MATERIAL, TYPE C
- 11 HOT-MIX ASPHALT SHOULDERS, 200MM
- 12 HOT-MIX ASPHALT SHOULDERS, M. TON 95MM AND VARIABLE
- 13 AGGREGATE SHOULDERS, TYPE A 200MM

TO BE CONSTRUCTED DURING FUTURE CONTRACT

- 14 AGGREGATE WEDGE SHOULDER, TYPE B
- 15 PIPE UNDERDRAIN 100MM
- 16 PIPE UNDERDRAIN 100MM (SPECIAL)
- 17 CONCRETE HEADWALL FOR PIPE DRAINS
- 18 COMBINATION CONCRETE CURB AND GUTTER TYPE M-15.60
- 19 COMBINATION CONCRETE CURB AND GUTTER TYPE M-15.15
- 20 CONCRETE MEDIAN SURFACE, 100MM
- 21 COURSE AGGREGATE, CA7 OR CA11
- 22 HOT-MIX ASPHALT BASE COURSE, 285MM
- 23 SUB-BASE GRANULAR MATERIAL, TYPE A 100MM

TO BE CONSTRUCTED DURING FUTURE CONTRACT

- 24 PORTLAND CEMENT CONCRETE PAVEMENT 250MM (JOINTED)
- 25 HOT-MIX ASPHALT SURFACE REMOVAL 15MM AND VARIABLE
- 26 POLYMERIZED LEVELING BINDER (MACHINE METHOD), N90 VARIABLE
- 27 POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N90 38MM
- 28 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 285MM
- 29 HOT-MIX ASPHALT SHOULDERS, 250MM
- 30 AGGREGATE SHOULDERS, TYPE A 250MM
- 31 STRIP REFLECTIVE CRACK CONTROL TREATMENT
- 32 GRADE LINE**
- 33 STABILIZED SUB-BASE-HOT-MIX ASPHALT, 100MM
- 34 UNSTABLE SOIL**



* REMOVAL BEGINS AT STA 5+962.2
 ** STA 5+951.3 TO STA 5+962.2 250MM
 STA 5+962.2 TO STA 6+006.335 200MM

TO BE USED:

EB STA. 15+921.3 TO STA. 16+006.335
 WB STA. 5+921.3 TO STA. 6+006.335

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPICALS

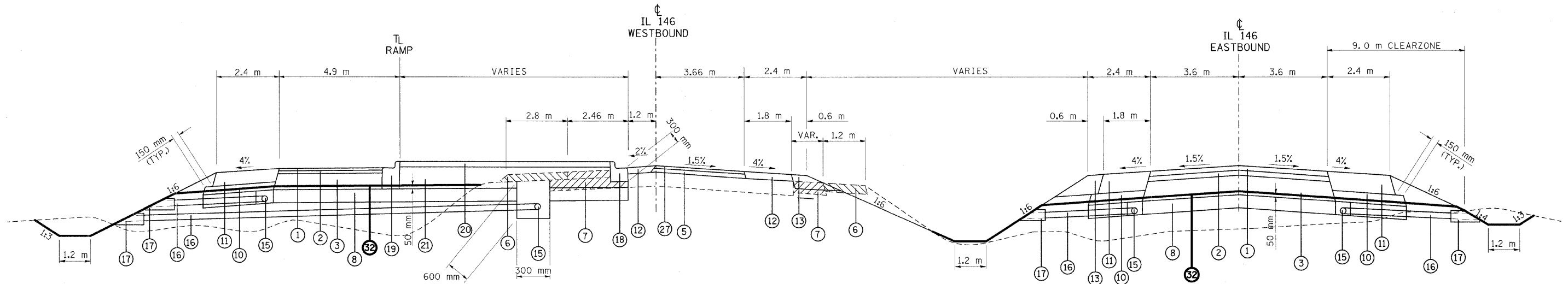
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 CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	13
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

TYPICALS

BOLD ITEMS ONLY CONSTRUCTED IN THIS CONTRACT



CONTINUE GRADING FOR RAMP

TO BE USED:

EB STA. 16+006.335 TO STA. 16+050 (GRADE LINE STOPS AT EB STA 16+050)
WB STA. 6+006.335 TO STA. 6+050

TO BE CONSTRUCTED DURING FUTURE CONTRACT

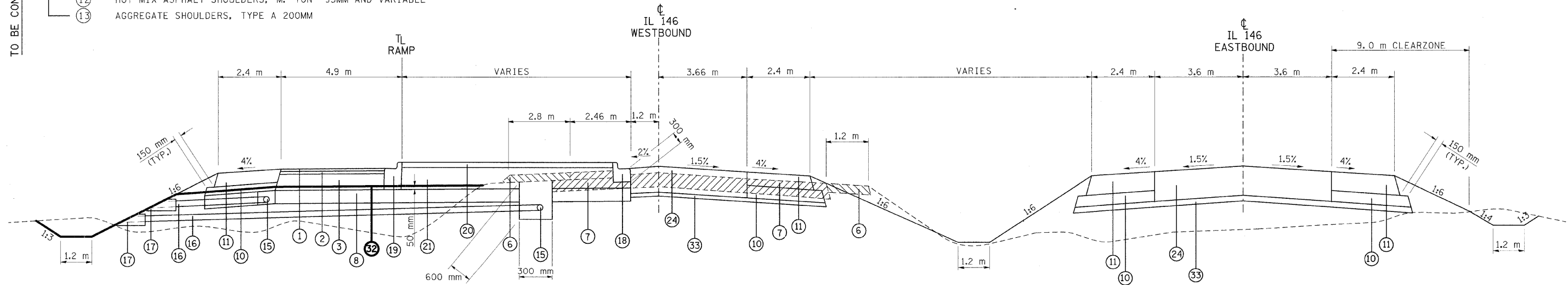
- ① POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX. D, N90 50MM
- ② POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 38MM AND VARIABLE
- ③ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 292MM
- ④ ROCKFILL**
- ⑤ POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 57MM AND VARIABLE
- ⑥ PAVED SHOULDER REMOVAL
- ⑦ PAVEMENT REMOVAL
- ⑧ PROCESSING LIME MODIFIED SOILS 300MM
- ⑨ SUB-BASE GRANULAR MATERIAL, TYPE A 300MM**
- ⑩ SUB-BASE GRANULAR MATERIAL, TYPE C
- ⑪ HOT-MIX ASPHALT SHOULDERS, 200MM
- ⑫ HOT-MIX ASPHALT SHOULDERS, M. TON 95MM AND VARIABLE
- ⑬ AGGREGATE SHOULDERS, TYPE A 200MM

TO BE CONSTRUCTED DURING FUTURE CONTRACT

- ⑭ AGGREGATE WEDGE SHOULDER, TYPE B
- ⑮ PIPE UNDERDRAIN 100MM
- ⑯ PIPE UNDERDRAIN 100MM (SPECIAL)
- ⑰ CONCRETE HEADWALL FOR PIPE DRAINS
- ⑱ COMBINATION CONCRETE CURB AND GUTTER TYPE M-15.60
- ⑲ COMBINATION CONCRETE CURB AND GUTTER TYPE M-15.15
- ⑳ CONCRETE MEDIAN SURFACE, 100MM
- ㉑ COURSE AGGREGATE, CA7 OR CA11
- ㉒ HOT-MIX ASPHALT BASE COURSE, 285MM
- ㉓ SUB-BASE GRANULAR MATERIAL, TYPE A 100MM

TO BE CONSTRUCTED DURING FUTURE CONTRACT

- ⑳ PORTLAND CEMENT CONCRETE PAVEMENT 250MM (JOINTED)
- ㉑ HOT-MIX ASPHALT SURFACE REMOVAL 15MM AND VARIABLE
- ㉒ POLYMERIZED LEVELING BINDER (MACHINE METHOD), N90 VARIABLE
- ㉓ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N90 38MM
- ㉔ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 285MM
- ㉕ HOT-MIX ASPHALT SHOULDERS, 250MM
- ㉖ AGGREGATE SHOULDERS, TYPE A 250MM
- ㉗ STRIP REFLECTIVE CRACK CONTROL TREATMENT
- ㉘ GRADE LINE**
- ㉙ STABILIZED SUB-BASE-HOT-MIX ASPHALT, 100MM
- ㉚ UNSTABLE SOIL**



STOP GRADING FOR RAMP AT STA. 6+100

TO BE USED:

EB STA. 16+050 TO STA. 16+100 (GRADE LINE STOPS AT EB STA 16+050)
WB STA. 6+050 TO STA. 6+100

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPICALS

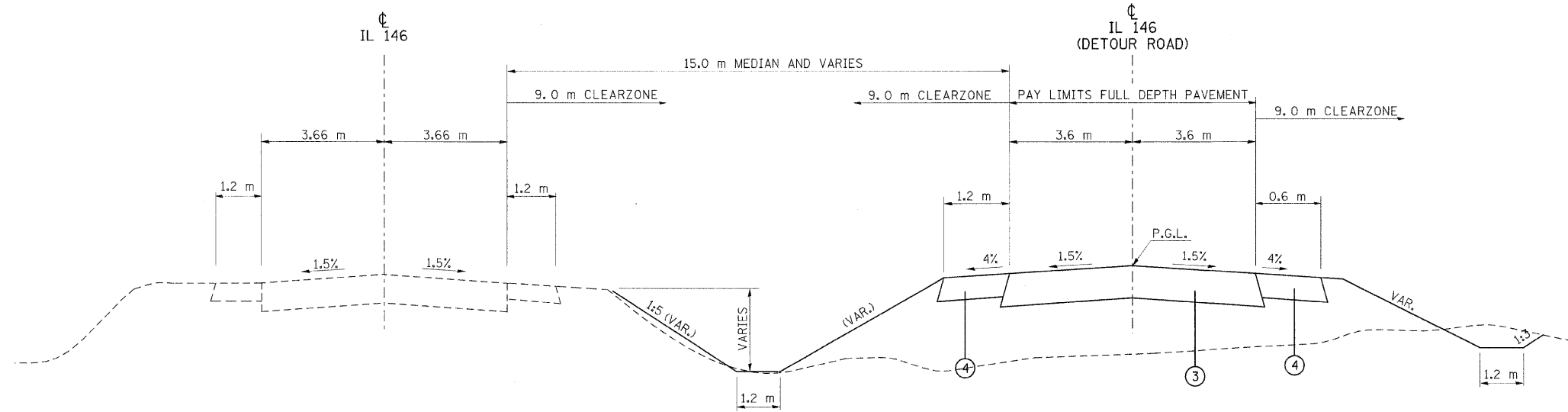
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HORIZ. DATE

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CHECKED BY

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USER NAME = hredin

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	15
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL DETOUR ROAD



TO BE USED:
STA. 0+074.4 TO STA. 0+327.5 DETOUR

- ① POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX. D, N90 50MM
- ② HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 200MM
- ③ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 250MM
- ④ HOT-MIX ASPHALT SHOULDERS, 200MM
- ⑤ PAVED SHOULDER REMOVAL
- ⑥ PAVEMENT REMOVAL

IL 146 DETOUR RUNAROUND

STRUCTURAL DESIGN TRAFFIC: Year 2005

PV = 7450 SU = 600 MU = 650

ROAD/STREET CLASSIFICATION: Class II

PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:

P = 50% S = 50% M = 50%

TRAFFIC FACTOR: Actual TF = 0.17 AC Type = 20

Minimum TF = 0.19

PG GRADE: Binder = PG64-22 Surface = _____

SUB-GRADE SUPPORT RATING:

SSR = P00R (STA. 5+500 TO 5+900)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPICAL

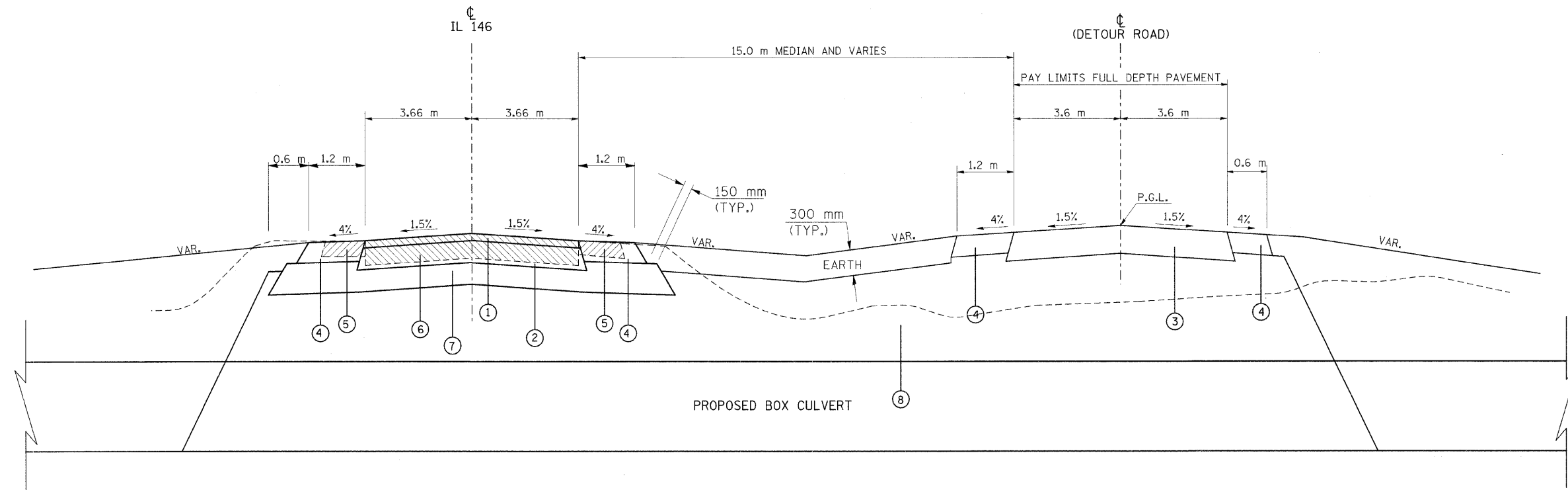
SCALE: VERT. NONE
HORIZ. _____
DATE _____ DRAWN BY CNH
CHECKED BY _____

PLOT DATE = 10/23/2008
 FILE NAME = s:\p\work\101-2(A,B,R)\VMD\101-2(A,B,R)\101-2(A,B,R)_15.dwg
 PLOT SCALE = 50.0000 / IN.
 USER NAME = heston

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	16

STA.	TO STA.
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

TYPICAL DETOUR ROAD



TO BE USED:
STA. 5+687.5 TO STA. 5+711.4

- ① POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX. D, N90 50MM
- ② HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 200MM
- ③ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 250MM
- ④ HOT-MIX ASPHALT SHOULDERS, 200MM
- ⑤ PAVED SHOULDER REMOVAL
- ⑥ PAVEMENT REMOVAL
- ⑦ SUB-BASE GRANULAR MATERIAL, TYPE A 300MM CA 10
- ⑧ POROUS GRANULAR EMBANKMENT CA 7 OR CA 11

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPICAL

SCALE: VERT. NONE
HORIZ. NONE
DATE: DRAWN BY CNH
CHECKED BY

PLOT DATE = 10/20/2008
 FILE NAME = c:\pwworkspace\pwworkspace\101-2(A,B,R)\101-2(A,B,R)_16.dgn
 PLOT SCALE = 50.0000 / 1 IN.
 USER NAME = henden

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	17
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PAVEMENT

LOCATION STATION TO STATION	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE MIX "D", N90	HOT-MIX ASPHALT BINDER COURSE IL-19.0, N90	SUB-BASE GRANULAR MATERIAL, TYPE A	POROUS GRANULAR EMBANKMENT	HOT-MIX ASPHALT SHOULDERS, 200MM	BITUMINOUS MATERIALS (PRIME COAT)
	M TON	M TON	M TON	CU M	SQ M	LITER
IL 146						
STA 5+687.5 TO STA 5+711.4	21.0	87.8	623.0		57.4	354.2
STA 5+500. TO STA 5+900. DETOUR ROAD		1,397.2				3,498.9
STA 5+521. TO STA 5+878. RIGHT SIDE OF DETOUR ROAD					211.4	306.5
STA 5+575. TO STA 5+825. LEFT SIDE OF DETOUR ROAD					314.2	455.4
STA 5+699.4 SIDES & TOP OF BOX CULVERT				836.0		
STA 5+699.40 FROM STRUCTURE PLANS (BELOW BOX)				103.0		
IL 146 PROJECT TOTAL	21.0	1,485.0	623.0	939.0	583.0	4,615.0

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE

SCALE: VERT.
HORIZ.
DATE

DRAWN BY JCK
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	18
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

REMOVAL

LOCATION STA TO STA	PAVEMENT REMOVAL	PAVED SHOULDER REMOVAL	GUARDRAIL REMOVAL	CABLE ROAD GUARD REMOVAL	FENCE REMOVAL	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	BUILDING REMOVAL NO. 1	BUILDING REMOVAL NO. 2	BUILDING REMOVAL NO. 3	BUILDING REMOVAL NO. 4
	SQ M	SQ M	METER	METER	METER	EACH	L. SUM	L. SUM	L. SUM	L. SUM
IL 146										
RT STA 5+500. TO STA 5+575.		67.3								
RT STA 5+824. TO STA 5+900.		78.8								
STA 5+500. TO STA 5+900. DETOUR ROAD	2,114.6									
STA 5+687.5 TO STA 5+711.4	175.4	57.4				2.0				
STA 5+521. TO STA 5+878. RIGHT SIDE OF DETOUR ROAD										211.4
STA 5+575. TO STA 5+825. LEFT SIDE OF DETOUR ROAD										314.1
RT STA 5+620. TO STA 5+728.			108.0							
LT STA 5+685. TO STA 5+775.			90.0							
RT STA 15+768.00 TO STA 15+803.00					38.0					
STA 15+737.							1			
STA 15+759.								1		
STA 15+992.									1	
STA 16+020.										1
LT STA 41+692. TO STA 41+857. IL 3				165.0						
IL 146 PROJECT TOTAL										
	2,290.0	729.0	198.0	165.0	38.0	2.0	1	1	1	1

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE

SCALE: VERT.
HORIZ.
DATE

DRAWN BY JCK
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	20
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

DRAINAGE REMOVAL

LOCATION	PIPE CULVERT REMOVAL		BOX CULVERT REMOVAL		REMOVAL OF PRECAST FLARED END SECTION FOR INFORMATION ONLY		
	FOR INFORMATION ONLY		FOR INFORMATION ONLY		PRC FLARED END SECTION 750MM	PRC FLARED END SECTION ELLIPTICAL EQ RD 750MM	
		METER		METER			EACH
IL 146							
RT STA 3+320.3	RCCP 750MM	0.4					
RT STA 4+024.1	RCCP 750MM	0.8					
RT STA 4+115.8	RCCP 750MM	1.3					
RT STA 4+274.	RCCP 750MM	0.6					
RT STA 4+689.6	RCCP ELL. EQ. RD. SZ. 750MM	3.5			1	1	1
RT STA 4+858.4	RCCP 750MM	1.7					
RT STA 5+097.4	RCCP ELL. EQ. RD. SZ. 750MM	2.8				1	1
RT STA 5+432.7	RCCP 750MM	1.8					
RT STA 5+932.5				PRECAST BOX 900MM X 600MM	3.0		
RT STA 3+220.	375MM CMP	18.3					
LT STA 3+220.	375MM CMP	16.8					
LT STA 3+445.	375MM CMP	11.0					
RT STA 3+459.	375MM CMP	15.8					
RT STA 3+787.	375MM CMP	18.3					
LT STA 4+297.	375MM CMP	17.4					
RT STA 4+300.	375MM CMP	17.4					
RT STA 5+944.1	450MM CMP	15.1					
IL 146 PROJECT TOTALS		143.0			3.0		3

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<p>SCHEDULE</p> <p>SCALE: VERT. DRAWN BY JCK HORIZ. CHECKED BY DATE</p>

PLOT DATE = 10/24/2008
 FILE NAME = E:\New\98577\PROJECT\KRENZ\IC\Draw\98577\98577.dwg
 PLOT SCALE = 500/2000 // IN.
 USER NAME = krenzjp

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	21
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EARTHWORK

LOCATION STA TO STA	EARTH EXCAVATION CU M	FOR INFORMATION ONLY					BORROW SWELL FACTOR **	BORROW EXCAVATION CU M	ROCK FILL M TON	SUB-BASE GRANULAR MATERIAL, TYPE A M TON
		UNSTABLE SOILS *	AVERAGE SHRINKAGE FACTOR %	EARTH EXCAVATION (ADJUSTED) CU M	EMBANKMENT CU M	EARTHWORK BALANCE				
		CU M	%	CU M	CU M	WASTE (+) SHORTAGE (-) CU M				
IL 146										
STA 2+539.4 TO STA 2+700.	96		20.7%	76	952	-876				
STA 2+700. TO STA 3+050.	6,543	4,128	24.7%	4,927	987	3,940		8,578	3,232	
STA 3+050. TO STA 3+350.	251		15.5%	212	11,846	-11,634				
STA 3+350. TO STA 3+975.	9,113	4,648	22.3%	7,081	3,269	3,812		15,827	5,871	
STA 3+975. TO STA 4+290.	580		15.3%	491	14,586	-14,095				
STA 4+290. TO STA 4+375.	2,423	1,015	20.0%	1,938	654	1,284		2,552	940	
STA 4+375. TO STA 6+050.	6,806		15.9%	5,724	52,500	-46,776				
LT STA 5+921.3 TO STA 6+006.08	68		25.7%	51	257	-206				
STA 0+000. TO STA 0+130. RT TURN RAMP	116		18.6%	94	1,442	-1,348				
RT STA 15+702. TO STA 15+932. WETLAND	10,792		24.8%	8,116	1,211	6,905				
IL 146 PROJECT TOTAL	36,788	9,791		28,710	87,704	-58,994	25.0%	78,659	26,957	10,043

* UNSTABLE SOIL QUANTITIES ARE INCLUDED IN THE EARTH EXCAVATION QUANTITY SEE SPECIAL PROVISION
 ** BORROW PIT SHRINKAGE = 25% BORROW SWELL FACTOR = 1/(1-25%) = 1.33

TREE REMOVAL

LOCATION STA TO STA	OFFSET FROM ORIGINAL ALIGNMENT CENTERLINE	TREE REMOVAL (6 TO 15 UNITS)	TREE REMOVAL (OVER 15 UNITS)	TREE REMOVAL, HECTARES	REMARKS
	METER	UNIT	UNIT	HA	
IL 146					
RT STA 2+864	38.1	11.0			
RT STA 2+864	38.7	10.0			
RT STA 2+867	34.7	12.0			
RT STA 2+867	34.1		17.0		
RT STA 5+378. TO STA 5+516.				0.4	REMOVE TO CONSTRUCTION LIMITS
IL 146 PROJECT TOTAL		33.0	17.0	0.4	

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		SCHEDULE

SCALE: VERT.
HORIZ.
DATE

DRAWN BY JCK
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	23
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

ENTRANCE CULVERTS

LOCATION STATION TO STATION	EXISTING ENTRANCE INFORMATION		PIPE CULVERTS, CLASS D,		END SECTIONS 375MM EACH	REMARKS
			TYPE 1 375 MM METER	TYPE 2 375 MM METER		
			TYPE	SURFACE		
IL 146						
RT STA 13+086.	FER	EARTH	7.9		2.0	
LT STA 3+086.	FEL	EARTH	8.5		2.0	
RT STA 13+220.	FER	EARTH				RELOCATE TO STA 13+086
LT STA 3+220.	FEL	EARTH				RELOCATE TO STA 3+086
LT STA 3+445.	PEL	AGGREGATE	12.2		2.0	
RT STA 13+445.	FER	EARTH		20.4	2.0	
RT STA 3+459.	FER	EARTH				RELOCATE TO STA 13+445
LT STA 3+575.	FEL	EARTH				
RT STA 13+575.	FER	EARTH				REMOVE
RT STA 13+787.	FER	EARTH		20.1	2.0	
RT STA 14+079. REIMAN RD	SRR	OIL & CHIP				
LT STA 4+079. GERARD RD	SRL	AGGREGATE				
LT STA 4+297.	PEL	AGGREGATE		11.6	2.0	
RT STA 14+301.	FER	AGGREGATE		16.2	2.0	
RT STA 14+725.	FER	EARTH				
LT STA 4+717.	FEL	EARTH				
RT STA 14+900.	FER	EARTH		17.7	2.0	
LT STA 4+890.	FEL	EARTH				
RT STA 15+174.	FER	EARTH	8.8		2.0	
LT STA 5+175.	FEL	EARTH	8.8		2.0	
RT STA 15+270.	FER	EARTH				RELOCATE TO STA 15+174
LT STA 5+270.	FEL	EARTH				RELOCATE TO STA 5+175
RT STA 15+550.	FER	EARTH				
RT STA 15+570.	FER	EARTH				RELOCATE TO STA 15+550
LT STA 5+570.	FEL	EARTH				
LT STA 5+680.	FEL	EARTH				RELOCATE TO STA 5+570
RT STA 15+784.	FER	EARTH	13.1		2.0	
RT STA 15+804.	CER	AGGREGATE				RELOCATE TO STA 15+784
RT STA 15+944.1 CONIFER LN	CER	OIL & CHIP				REMOVE
IL 146 PROJECT TOTAL			59.3	86.0	22.0	

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		SCHEDULE
SCALE: VERT. DATE	HORIZ.	DRAWN BY JCK CHECKED BY

PLOT DATE = 10/24/2009
 FILE NAME = C:\V\WORK\1011\VRANZ\IC\dm43642\1025\98577ch-032
 PLOT SCALE = 50.0000 / IN.
 USER NAME = krenzjc

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	24
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EROSION CONTROL

LOCATION STATION TO STATION	EROSION CONTROL BLANKET	HEAVY DUTY EXCELSIOR BLANKET	PERIMETER EROSION BARRIER	TEMPORARY DITCH CHECKS	INLET & PIPE PROTECTION
	SQ M	SQ M	METER	EACH	EACH
IL 146					
RT STA 13+204. TO STA 13+310			106.0		
RT STA 14+047. TO STA 14+068			21.0		
RT STA 14+085. TO STA 14+100			16.0		
RT STA 14+750. TO STA 14+850			101.0		
RT STA 15+478. TO STA 15+524			47.0		
RT STA 15+825. TO STA 15+929			105.0		
RT STA 15+933. TO STA 15+975			43.0		
RT STA 2+839.					1.0
RT STA 3+100.					1.0
RT STA 3+320.3					1.0
RT STA 3+500.					1.0
RT STA 3+725.					1.0
RT STA 3+844.3					1.0
RT STA 4+024.1					1.0
RT STA 4+115.8					1.0
RT STA 4+274.					1.0
RT STA 4+499.2					1.0
RT STA 4+689.6					1.0
RT STA 4+858.4					1.0
RT STA 5+097.4					1.0
RT STA 5+274.2					1.0
RT STA 5+432.7					1.0
RT STA 5+624.2					1.0
RT STA 5+775.					1.0
RT STA 5+932.5					1.0
RT STA 12+623.				1.0	
RT STA 12+630.				1.0	
RT STA 12+645.				1.0	
RT STA 12+660.				1.0	
RT STA 12+700.				1.0	
RT STA 12+835.				1.0	
RT STA 12+843.				1.0	
RT STA 12+965.				1.0	
RT STA 13+055.				1.0	
RT STA 13+160.				1.0	
RT STA 13+335.				1.0	
RT STA 13+410.				1.0	
RT STA 13+502.				1.0	
RT STA 13+525.				1.0	
RT STA 13+550.				1.0	
RT STA 13+665.				1.0	
RT STA 13+755.				1.0	
RT STA 13+830.				1.0	
RT STA 13+846.				1.0	
RT STA 13+865.				1.0	
RT STA 13+885.				1.0	
RT STA 13+905.				1.0	
RT STA 13+945.				1.0	
RT STA 13+965.				1.0	
RT STA 13+985.				1.0	
RT STA 14+005.				1.0	
RT STA 14+022.				1.0	
RT STA 14+110.				1.0	
RT STA 14+120.				1.0	
RT STA 14+135.				1.0	
RT STA 14+245.				1.0	
RT STA 14+265.				1.0	
RT STA 14+285.				1.0	
RT STA 14+297.				1.0	
RT STA 14+310.				1.0	
RT STA 14+325.				1.0	
RT STA 14+410.				1.0	
RT STA 14+590.				1.0	
RT STA 14+680.				1.0	

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<p>SCHEDULE</p> <p>SCALE: VERT. DRAWN BY JCK HORIZ. CHECKED BY DATE</p>

PLOT DATE = 11/25/2008
 FILE NAME = c:\pwworkspace\pwworkspace\11252008\11252008.dwg
 PLOT SCALE = 50.0000 / 1 IN.
 USER NAME = kranzjg

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	25
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

EROSION CONTROL

LOCATION STATION TO STATION	EROSION CONTROL BLANKET	HEAVY DUTY EXCELSIOR BLANKET	PERIMETER EROSION BARRIER	TEMPORARY DITCH CHECKS	INLET & PIPE PROTECTION
	SQ M	SQ M	METER	EACH	EACH
IL 146					
RT STA 14+684.				1.0	
RT STA 14+695.				1.0	
RT STA 14+710.				1.0	
RT STA 15+050.				1.0	
RT STA 15+095.				1.0	
RT STA 15+185.				1.0	
RT STA 15+365.				1.0	
RT STA 15+645.				1.0	
RT STA 15+657.				1.0	
RT STA 15+695.				1.0	
RT STA 15+705.				1.0	
RT STA 15+720.				1.0	
RT STA 15+735.				1.0	
RT STA 15+975.				1.0	
LT STA 12+965.				1.0	
LT STA 13+055.				1.0	
LT STA 13+110.				1.0	
LT STA 13+290.				1.0	
LT STA 13+325.				1.0	
LT STA 13+520.				1.0	
LT STA 13+705.				1.0	
LT STA 13+860.				1.0	
LT STA 14+310.				1.0	
LT STA 14+490.				1.0	
LT STA 15+040.				1.0	
LT STA 15+985.				1.0	
LT STA 0+000.			TURN RAMP	1.0	
LT STA 0+090.			TURN RAMP	1.0	
RT STA 12+550. TO STA 12+625.	225.0				
RT STA 12+625. TO STA 12+675.		150.0			
RT STA 12+675. TO STA 12+825.	450.0				
RT STA 12+825. TO STA 12+845.		60.0			
RT STA 12+845. TO STA 13+204.	1,077.0				
RT STA 13+310. TO STA 13+925.	1,845.0				
RT STA 13+925. TO STA 14+047.		366.0			
RT STA 14+100. TO STA 14+126.		78.0			
RT STA 14+126. TO STA 14+296.	510.0				
RT STA 14+296. TO STA 14+325.		87.0			
RT STA 14+325. TO STA 14+682.	1,071.0				
RT STA 14+682. TO STA 14+725.		129.0			
RT STA 14+725. TO STA 14+750.		75.0			
RT STA 14+857. TO STA 14+900.		129.0			
RT STA 14+900. TO STA 15+475.	1,725.0				
RT STA 15+525. TO STA 15+700.	525.0				
RT STA 15+700. TO STA 15+750.		150.0			
RT STA 15+750. TO STA 15+830.	240.0				
RT STA 15+931. TO STA 16+075.	432.0				
LT STA 5+925. TO STA 6+006.	243.0				
LT STA 0+000. TO STA 0+133.	399.0				
STA 2+636.3 TO STA 2+831.	1,207.0				
STA 2+831. TO STA 3+445.	6,140.0				
STA 3+445. TO STA 4+079.	6,340.0				
STA 4+079. TO STA 5+175.	10,960.0				
STA 5+175. TO STA 5+700.	5,250.0				
STA 5+700. TO STA 6+089.	3,890.0				
RT STA 15+702. TO STA 15+932.		82.0			
IL 146 PROJECT TOTALS	42,529.0	1,306.0	439.0	67.0	18.0

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION SCHEDULE SCALE: VERT. HORIZ. DATE	DRAWN BY JCK CHECKED BY
NAME	DATE		

PLOT DATE = 11/25/2008
 FILE NAME = c:\pwworkspace\p1\DOT\KRANZ\JC\mxd\43642\025999.dwg
 PLOT SCALE = 50.0000 / 1 IN.
 USER NAME = krantzj

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	26
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SEEDING

LOCATION STATION TO STATION	TEMPORARY EROSION CONTROL SEEDING	SEEDING, CLASS 2 (MODIFIED)	SEEDING, CLASS 7	SEEDING, CLASS 4B (MODIFIED)	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	MULCH, METHOD 2	WEED CONTROL, NON-SELECTIVE AND NON-RESIDUAL
	KG	HECTARE	HECTARE	HECTARE	KG	KG	KG	M TON	HECTARE	LITER
IL 146										
STA 12+539.4 TO STA 12+700.	33.0	0.3	0.3		49.0	37.0	37.0	1.2	0.6	
STA 12+700. TO STA 13+050.	88.0	0.8	0.8		140.0	105.0	105.0	3.5	1.6	
STA 13+050. TO STA 13+350.	121.0	1.1	1.1		190.0	142.0	142.0	4.7	2.2	
STA 13+350. TO STA 13+975.	165.0	1.5	1.5		268.0	201.0	201.0	6.7	3.0	
STA 13+975. TO STA 14+290.	132.0	1.2	1.2		216.0	162.0	162.0	5.4	2.4	
STA 14+290. TO STA 14+375.	33.0	0.3	0.3		45.0	34.0	34.0	1.1	0.6	
STA 14+375. TO STA 16+075.	704.0	6.4	6.4		1,157.0	868.0	868.0	28.9	12.8	
LT STA 5+920. TO STA 6+006.34	11.0	0.1	0.1		16.0	12.0	12.0	0.4	0.2	
STA 0+000. TO STA 0+130. RAMP	33.0	0.3	0.3		52.0	39.0	39.0	1.3	0.6	
RT STA 15+702. TO STA 15+932. WETLAND	342.0		3.1	3.1	560.0	420.0	420.0	0.0	6.2	1,164.0
IL 146 PROJECT TOTALS	1,662.0	12.0	15.1	3.1	2,693.0	2,020.0	2,020.0	53.2	30.2	1,164.0

CONCRETE BARRIER & SIGNS

LOCATION STA TO STA	SIGN PANEL - TYPE 1	METAL POST - TYPE A	TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	REMARKS
	SQ M	METER	METER	EACH	
IL 146					
RT STA 2+540. TO STA 2+820. STA 0+069.5 TO STA 0+333.5	3.0	52.0	262.2		0M-3R CONTACT OPERATIONS BEFORE PLACEMENT ALONG LT SIDE OF DETOUR ROAD
STA 0+069.5 STA 0+333.5				1.0 1.0	
IL 146 PROJECT TOTAL	3.0	52.0	262.2	2.0	

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<p>SCHEDULE</p> <p>SCALE: VERT. HORIZ. DATE</p> <p>DRAWN BY JCK CHECKED BY</p>

PLOT DATE = 11/25/2008
 FILE NAME = c:\pwworkspace\pwworkspace\11252008\11252008.dwg
 PLOT SCALE = 50.0000 / IN.
 USER NAME = kranzjg

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	27
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PAVEMENT MARKINGS

LOCATION STATION TO STATION	PAINT PAVEMENT MARKING - LINE 100MM		TEMPORARY PAINT PAVEMENT MARKING - LINE 100MM		PAVEMENT MARKING TAPE, TYPE III (SPECIAL)		PAVEMENT MARKING REMOVAL SQ M	WORK ZONE PAVEMENT MARKING REMOVAL SQ M
	SOLID WHITE	SKIP-DASH YELLOW	SOLID WHITE	SKIP-DASH YELLOW	SOLID WHITE	SOLID YELLOW		
	METER	METER	METER	METER	METER	METER		
IL 146								
STA 5+500. TO STA 5+900.	800	100	800	100				
STA 5+500. TO STA 5+900. DETOUR ROAD					808	808		
STA 5+500. TO STA 5+575.							17	30
STA 5+825. TO STA 5+900.							17	30
IL 146 PROJECT SUB-TOTALS	800	100	800	100	808	808		
IL 146 PROJECT TOTALS	900		900		1,616		34	60

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE

SCALE: VERT.
HORIZ.
DATE

DRAWN BY JCK
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	28
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

FENCE

LOCATION STATION TO STATION	OFFSET FROM CENTERLINE	CHAIN LINK FENCE, 1.2 METER	WOVEN WIRE FENCE, 1.2 METER	WOVEN WIRE GATES, 1.2M X 7.3M DOUBLE
	METER	METER	METER	EACH
IL 146				
WESTBOUND				
LT STA 2+869.4	32.1 TO 18.2		13.9	
LT STA 2+869.4 TO STA 3+078.7	18.2		209.3	
LT STA 3+078.7 TO STA 3+093.3	18.2			1.0
LT STA 3+093.3 TO STA 3+147.	18.2		53.7	
LT STA 3+147.	18.2 TO 22.8		4.6	
LT STA 3+147. TO STA 3+360.4	22.8		213.4	
LT STA 3+360.4	22.8 TO 18.2		4.6	
LT STA 3+360.4 TO STA 3+437.7	18.2		77.3	
LT STA 3+452.3 TO STA 3+567.7	18.2		115.4	
LT STA 3+567.7 TO STA 3+582.3	18.2			1.0
LT STA 3+582.3 TO STA 4+064.4	18.2		482.1	
LT STA 4+094.9 TO STA 4+289.7	24.3		194.8	
LT STA 4+304.3 TO STA 4+366.3	24.3		62.0	
LT STA 4+366.3	24.3 TO 18.2		6.1	
LT STA 4+366.3 TO STA 4+610.2	18.2		243.9	
LT STA 4+610.2	18.2 TO 22.8		4.6	
LT STA 4+610.2 TO STA 4+709.7	22.8		99.5	
LT STA 4+709.7 TO STA 4+724.3	22.8			1.0
LT STA 4+724.3 TO STA 4+882.7	22.8		158.4	
LT STA 4+882.7 TO STA 4+897.3	22.8			1.0
LT STA 4+897.3 TO STA 5+167.7	22.8		270.4	
LT STA 5+167.7 TO STA 5+182.3	22.8			1.0
LT STA 5+182.3 TO STA 5+562.7	22.8		380.4	
LT STA 5+562.7 TO STA 5+577.3	22.8			1.0
LT STA 5+577.3 TO STA 5+585.5	22.8		8.2	
LT STA 5+585.5	22.8 TO 18.2		4.6	
LT STA 5+585.5 TO STA 5+692.	18.2		106.5	
LT STA 5+707. TO STA 5+991.2	18.2		284.2	
LT STA 5+991.2 TO STA 42+070.1 IL 3	VARIABLE		142.1	
EASTBOUND				
RT STA 12+868.8	23.46 TO 59.64		36.2	
RT STA 12+868.8 TO STA 13+078.7	59.6		209.9	
RT STA 13+078.7 TO STA 13+093.3	59.6			1.0
RT STA 13+093.3 TO STA 13+123.3	59.6		30.0	
RT STA 13+123.3	59.64 TO 23.46		36.2	
RT STA 13+123.3 TO STA 13+273.	23.5		149.7	
RT STA 13+273.	23.5 TO 32.6		9.1	
RT STA 13+273. TO STA 13+437.7	32.6		164.7	
RT STA 13+437.7 TO STA 13+452.3	32.6			1.0
RT STA 13+452.3 TO STA 13+779.7	32.6		327.4	
RT STA 13+779.7 TO STA 13+794.3	32.6			1.0
RT STA 13+794.3 TO STA 14+061.4	32.6		267.1	
RT STA 14+094.9 TO STA 14+306.8	32.6		211.9	
RT STA 14+306.8 TO STA 14+321.4	32.6			1.0
RT STA 14+321.4 TO STA 14+717.7	32.6		396.3	
RT STA 14+717.7 TO STA 14+732.3	32.6			1.0
RT STA 14+732.3 TO STA 14+892.7	32.6		160.4	
RT STA 14+892.7 TO STA 14+907.3	32.6			1.0
RT STA 14+907.3 TO STA 15+166.7	32.6		259.4	
RT STA 15+166.7 TO STA 15+181.3	32.6			1.0
RT STA 15+181.3 TO STA 15+542.7	32.6		361.4	
RT STA 15+542.7 TO STA 15+557.3	32.6			1.0
RT STA 15+557.3 TO STA 15+615.1	32.6		57.8	
RT STA 15+615.1	32.6 TO 38.7		6.1	
RT STA 15+615.1 TO STA 15+692.	38.7		76.9	
RT STA 15+707. TO STA 15+776.7	38.7		69.7	
RT STA 15+776.7 TO STA 15+791.3	38.7			1.0
RT STA 15+791.3 TO STA 15+798.	38.7		6.7	
RT STA 15+798.	38.7 TO 23.5		15.2	
RT STA 15+798. TO STA 15+970.	23.5		172.0	
RT STA 15+970. TO STA 16+042.8	23.5	72.8		
RT STA 16+042.8 TO STA 41+858.6 IL 3	VARIABLE	86.2		
IL 3				
LT STA 41+692. TO STA 41+856.5 IL 3	18.2	164.5		
LT STA 42+070.1 TO STA 42+225. IL 3	18.2		154.9	
RT STA 41+623.6 TO STA 41+695.2 IL 3	24.5	71.6		
RT STA 41+695.2 IL 3	24.5 TO 18.4	6.1		
RT STA 41+695.2 TO STA 42+214. IL 3	18.4	518.8		
IL 146 PROJECT TOTALS				
		920.0	6,319.0	15.0

ROW MARKERS

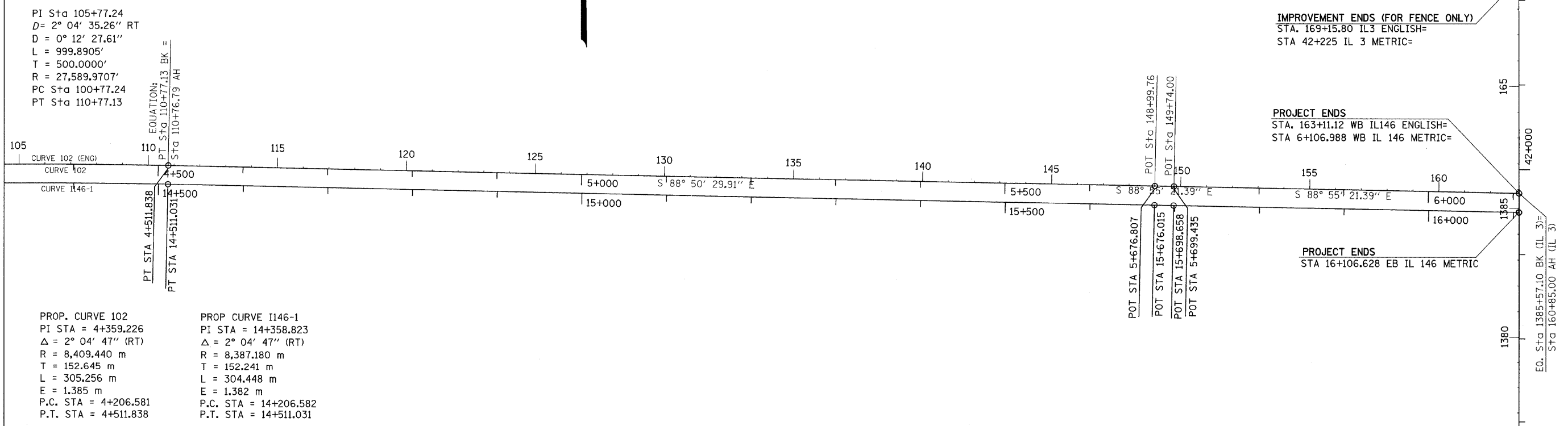
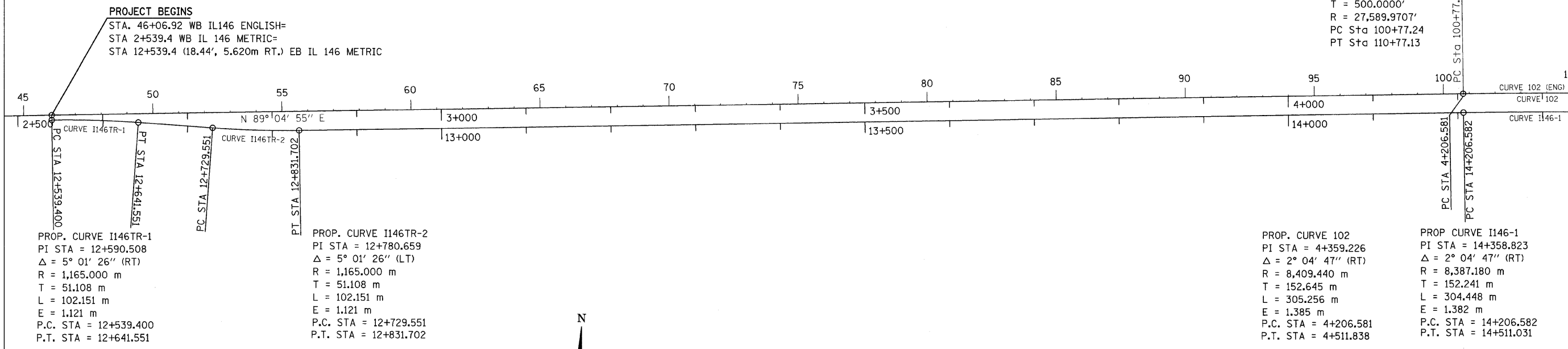
LOCATION STATION TO STATION	OFFSET DISTANCE				FURNISHING AND ERECTING ROW MARKERS
	LEFT		RIGHT		
	METER	FEET	METER	FEET	EACH
IL 146					
	METRIC		ENGLISH		
STA 3+122.88	STA 65+21.21		81.9	269	1
STA 3+123.25	STA 65+22.4		45.7	150	1
STA 3+273.01	STA 70+13.76		45.7	150	1
STA 3+272.9	STA 70+13.38		54.9	180	1
STA 4+061.31	STA 96+00.		54.9	180	1
STA 4+067.41	STA 96+20.		118.9	390	1
STA 4+088.74	STA 96+90.		118.9	390	1
STA 4+094.84	STA 97+10.		54.9	180	1
STA 5+615.91	STA 147+00.		54.9	180	1
STA 5+615.91	STA 147+00.		61.0	200	1
STA 5+798.8	STA 153+00.		61.0	200	1
STA 5+798.8	STA 153+00.		45.7	150	1
STA 6+043.58	STA 161+03.08		45.7	150	1
IL 146 PROJECT TOTALS					13

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<p style="text-align: center;">SCHEDULE</p> <p>SCALE: VERT. DRAWN BY JCK HORIZ. CHECKED BY DATE</p>

PLOT DATE = 10/24/2008
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 PLOT SCALE = 50.0000 / 1 IN.
 USER NAME = kranzjc

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	29
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CURVE 102 (ENG)
 PI Sta 105+77.24
 D = 2° 04' 35.26" RT
 D = 0° 12' 27.61"
 L = 999.8905'
 T = 500.0000'
 R = 27,589.9707'
 PC Sta 100+77.24
 PT Sta 110+77.13



PLOT DATE = 10/31/2008
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 USER NAME = headen

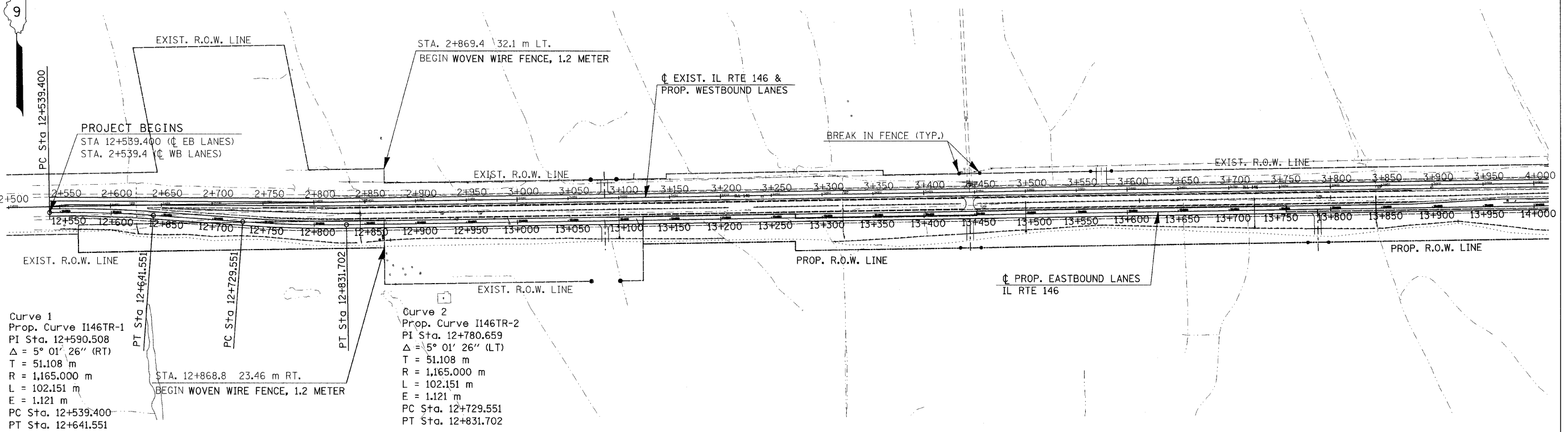
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.
312	101-2(A,B,R)	ALEXANDER	152 30
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

1:2000 RATIO



9

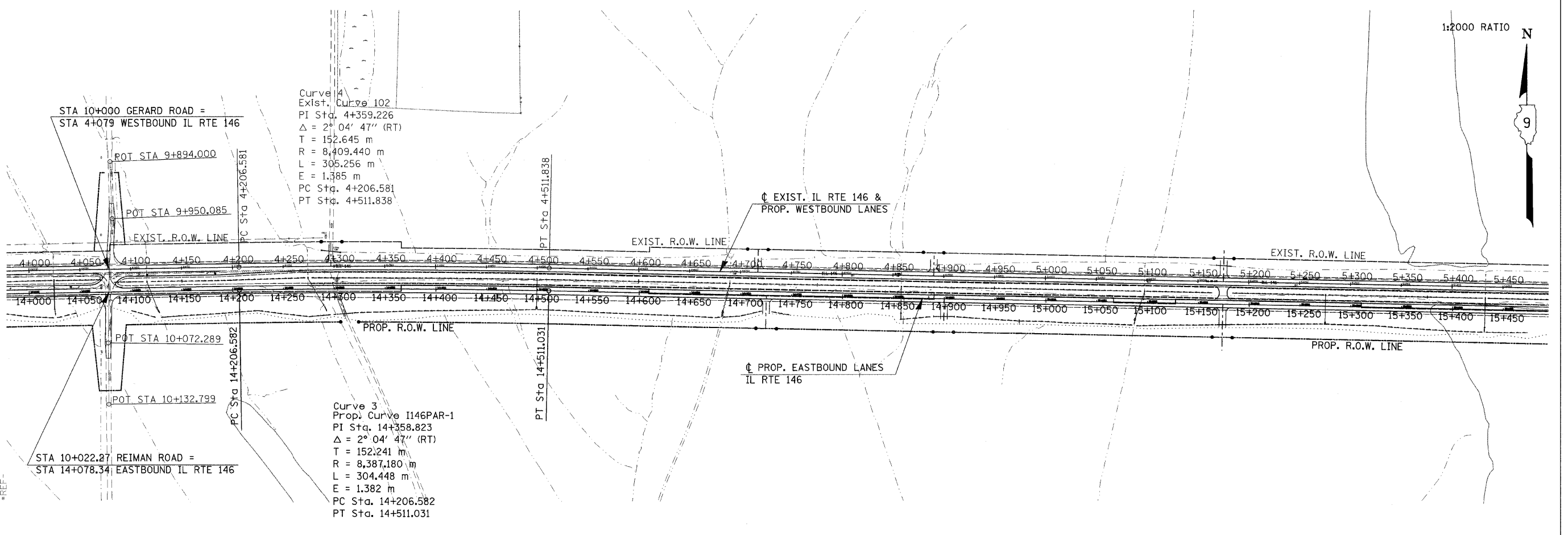
NOTE:
 PROPOSED FENCING FOLLOWS EXISTING AND/OR PROPOSED R.O.W. LINES UNLESS NOTED OTHERWISE. SEE FENCING SCHEDULE FOR STATIONS AND OFFSETS.



1:2000 RATIO



9



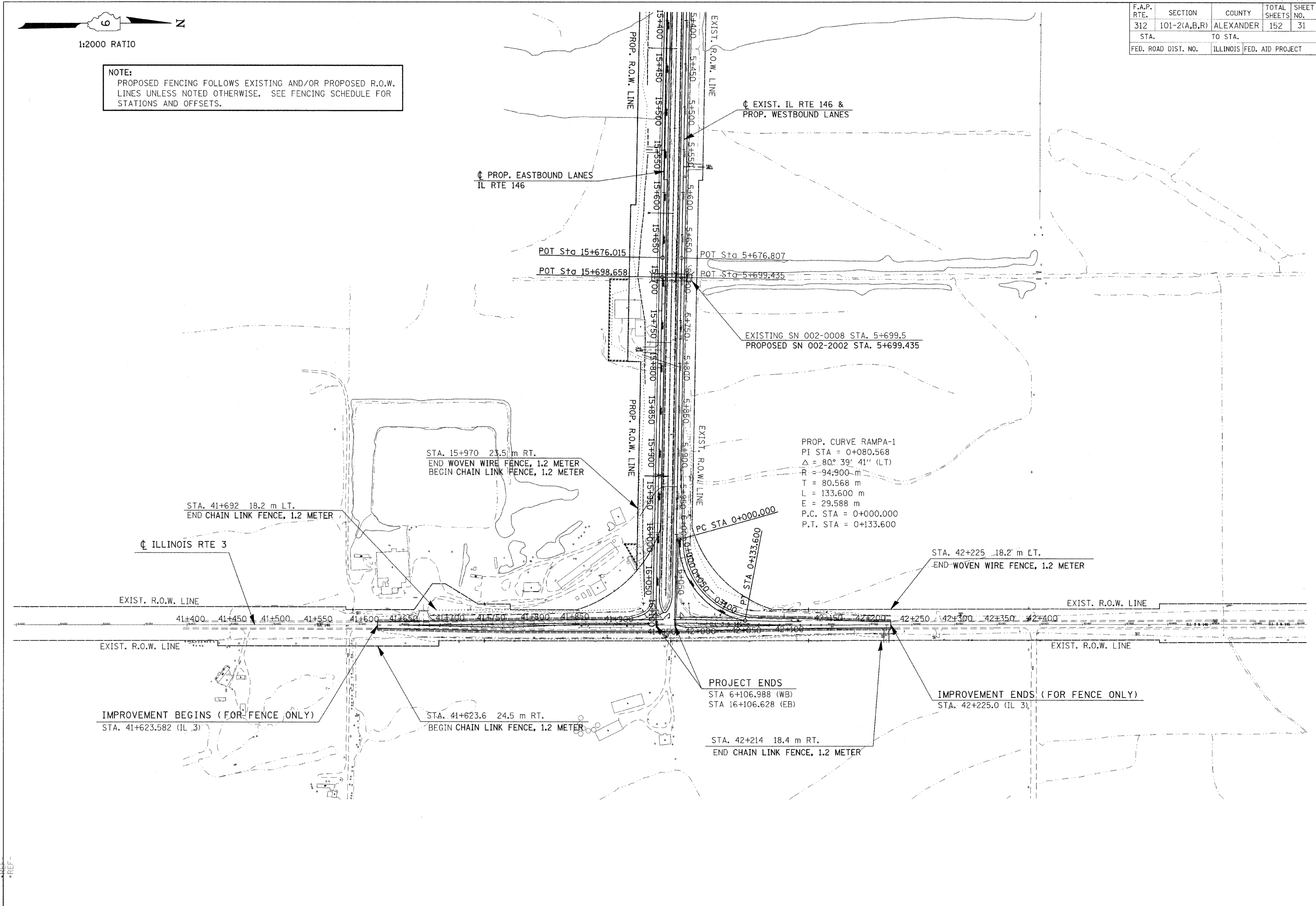
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 DGN-SPEC
 REF-REF
 REF-REF

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	31
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



1:2000 RATIO

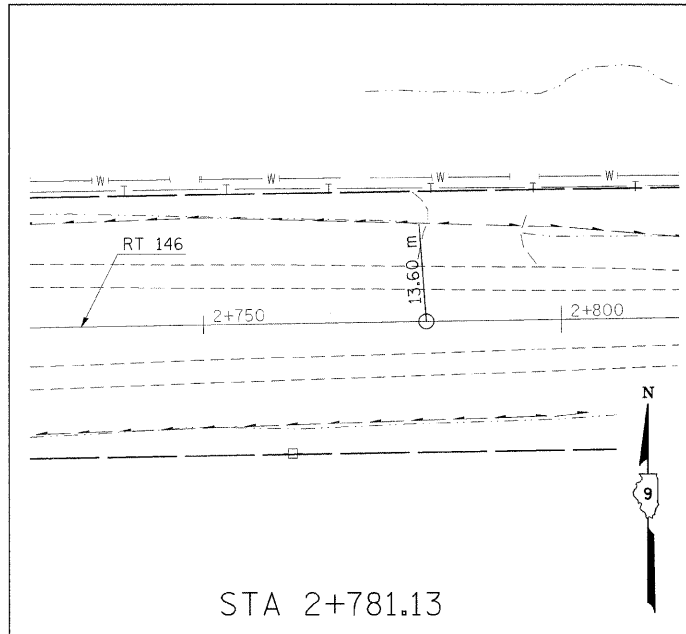
NOTE:
 PROPOSED FENCING FOLLOWS EXISTING AND/OR PROPOSED R.O.W. LINES UNLESS NOTED OTHERWISE. SEE FENCING SCHEDULE FOR STATIONS AND OFFSETS.



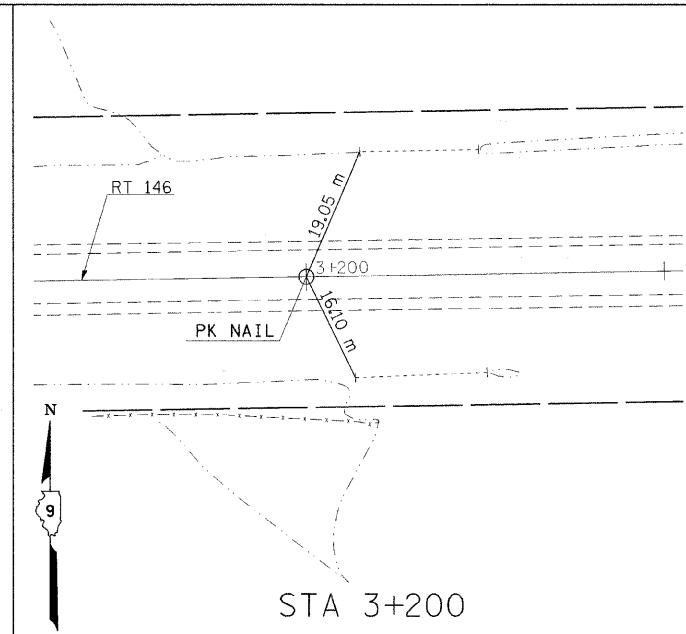
DATE-TIME
 DGN-SPEC
 REF-REF
 REF-REF

GENERAL AND FENCING PLAN - STA. 5+400 WB (15+400 EB) TO STA. 6+106.988 WB (16+106.628 EB) IL 146
GENERAL AND FENCING PLAN - STA. 41+400 TO STA. 42+400 IL RT 3

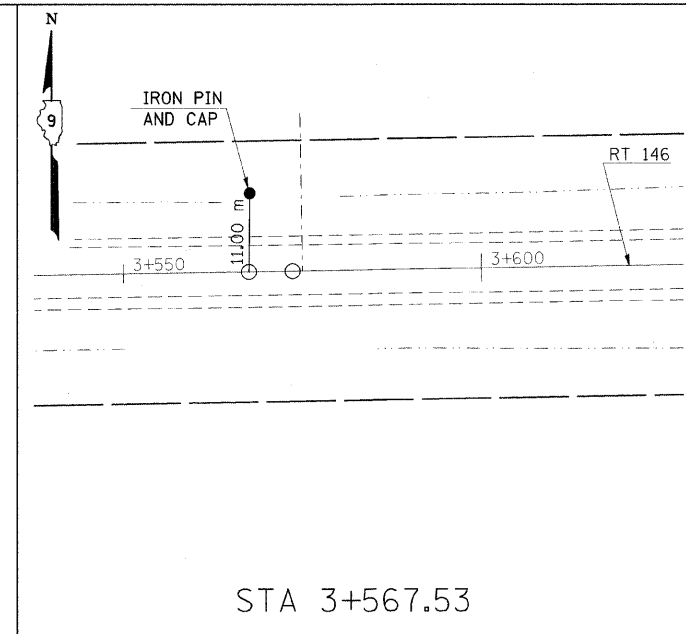
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	32
STA. TO STA.				
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	



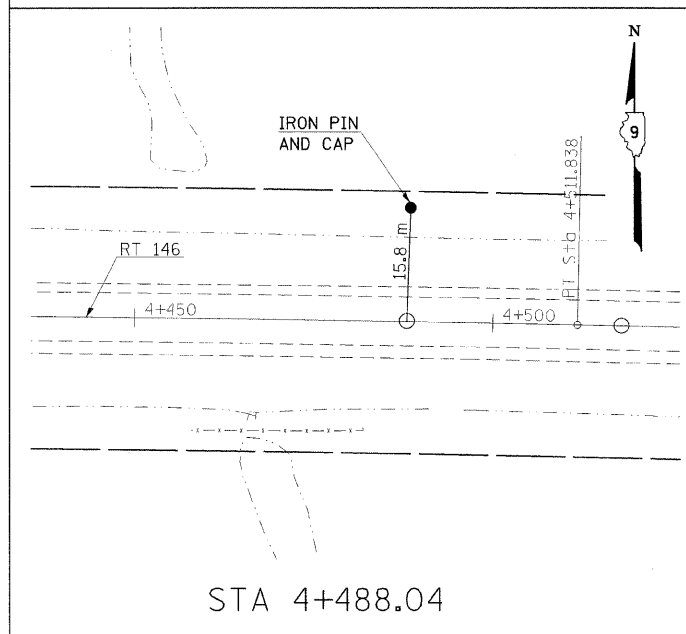
STA 2+781.13



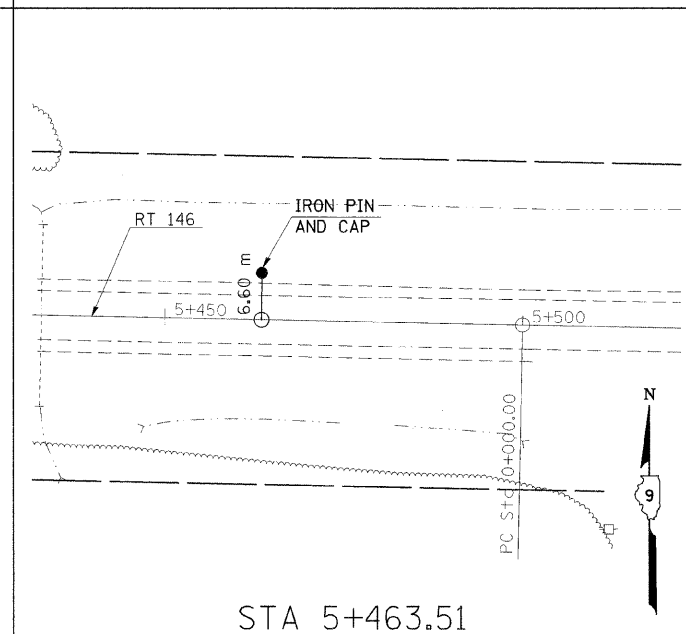
STA 3+200



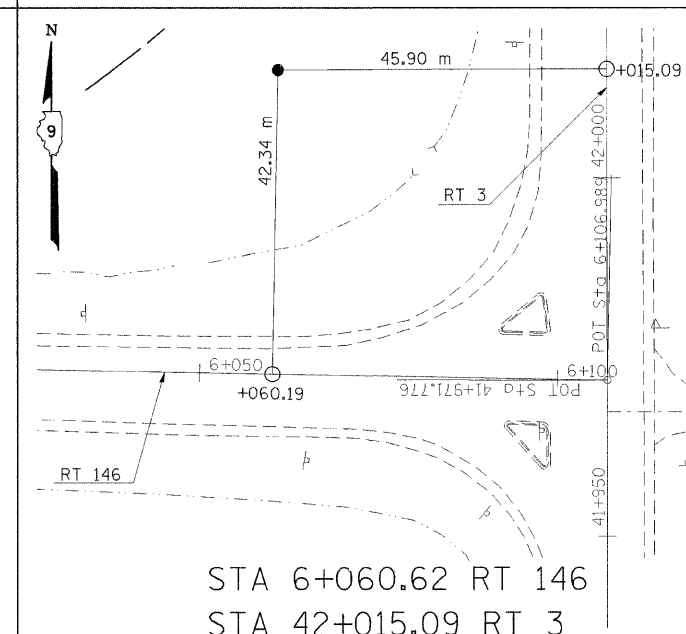
STA 3+567.53



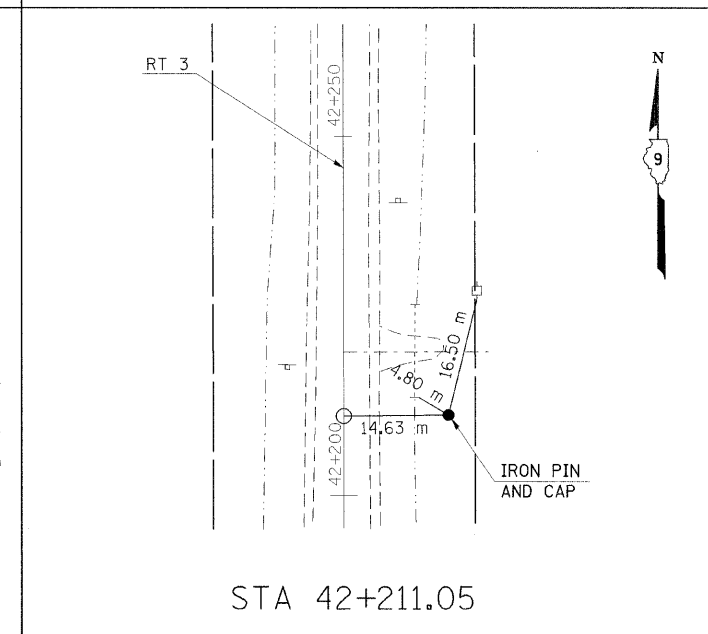
STA 4+488.04



STA 5+463.51



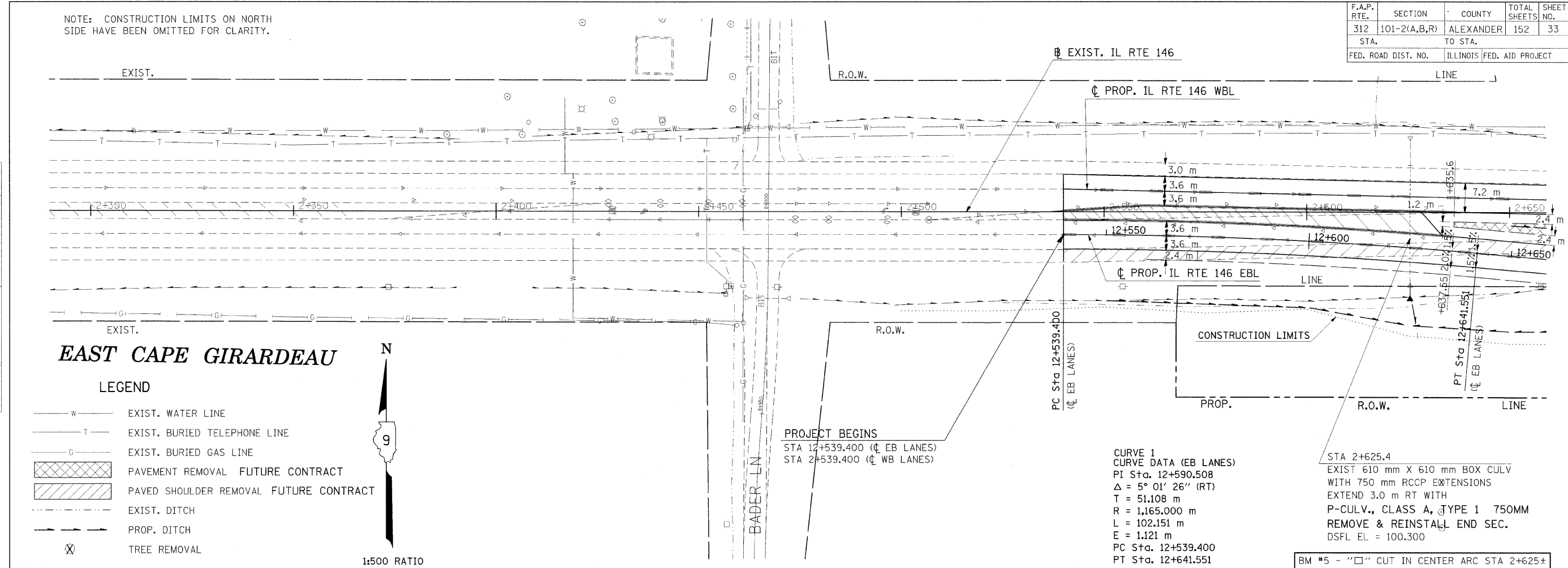
STA 6+060.62 RT 146
STA 42+015.09 RT 3



STA 42+211.05

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152
STA.	TO STA.		33
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	

NOTE: CONSTRUCTION LIMITS ON NORTH SIDE HAVE BEEN OMITTED FOR CLARITY.



EAST CAPE GIRARDEAU

LEGEND

- W — EXIST. WATER LINE
- T — EXIST. BURIED TELEPHONE LINE
- G — EXIST. BURIED GAS LINE
- [Cross-hatched] PAVEMENT REMOVAL FUTURE CONTRACT
- [Diagonal lines] PAVED SHOULDER REMOVAL FUTURE CONTRACT
- - - EXIST. DITCH
- - - PROP. DITCH
- ⊗ TREE REMOVAL



1:500 RATIO

PROJECT BEGINS
 STA 12+539.400 (C EB LANES)
 STA 2+539.400 (C WB LANES)

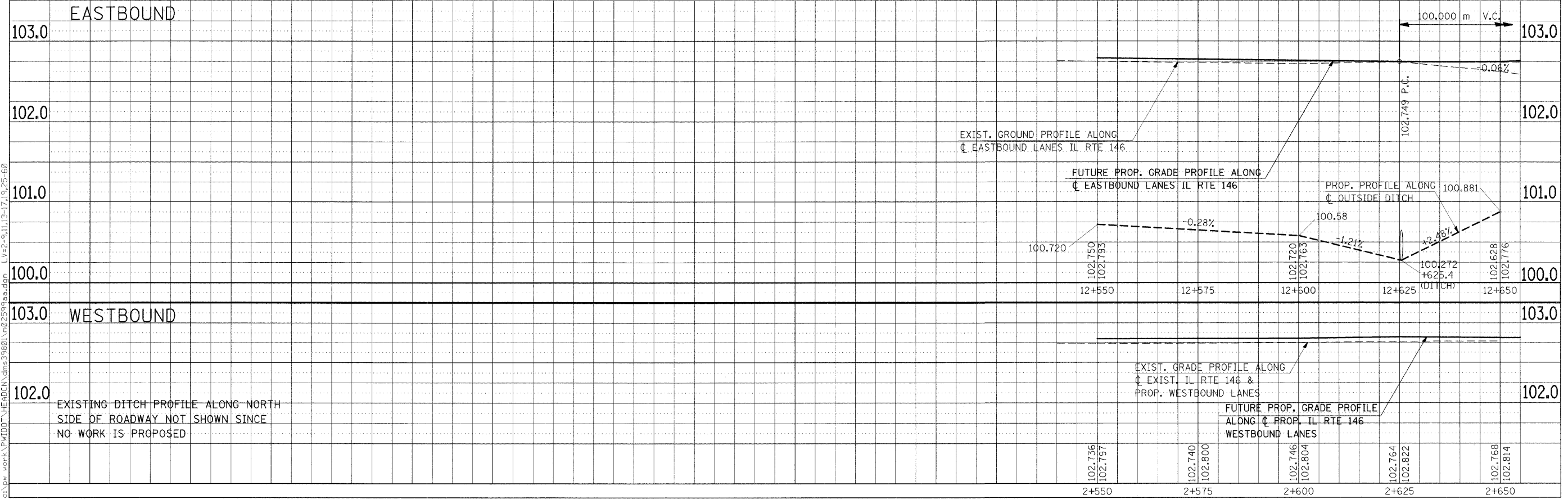
CURVE 1
 CURVE DATA (EB LANES)
 PI Sta. 12+590.508
 $\Delta = 5^\circ 01' 26''$ (RT)
 T = 51.108 m
 R = 1,165.000 m
 L = 102.151 m
 E = 1.121 m
 PC Sta. 12+539.400
 PT Sta. 12+641.551

STA 2+625.4
 EXIST 610 mm X 610 mm BOX CULV
 WITH 750 mm RCCP EXTENSIONS
 EXTEND 3.0 m RT WITH
 P-CULV., CLASS A, TYPE 1 750MM
 REMOVE & REINSTALL END SEC.
 DSFL EL = 100.300

BM #5 - "□" CUT IN CENTER ARC STA 2+625±
 11.88 m RT, ELEV 101.230

FINAL SURVEY	BY	DATE
SURVEY FLOTTED		
NOTE BOOK		
DATE		
AREA		
CHECKED		
NO.		

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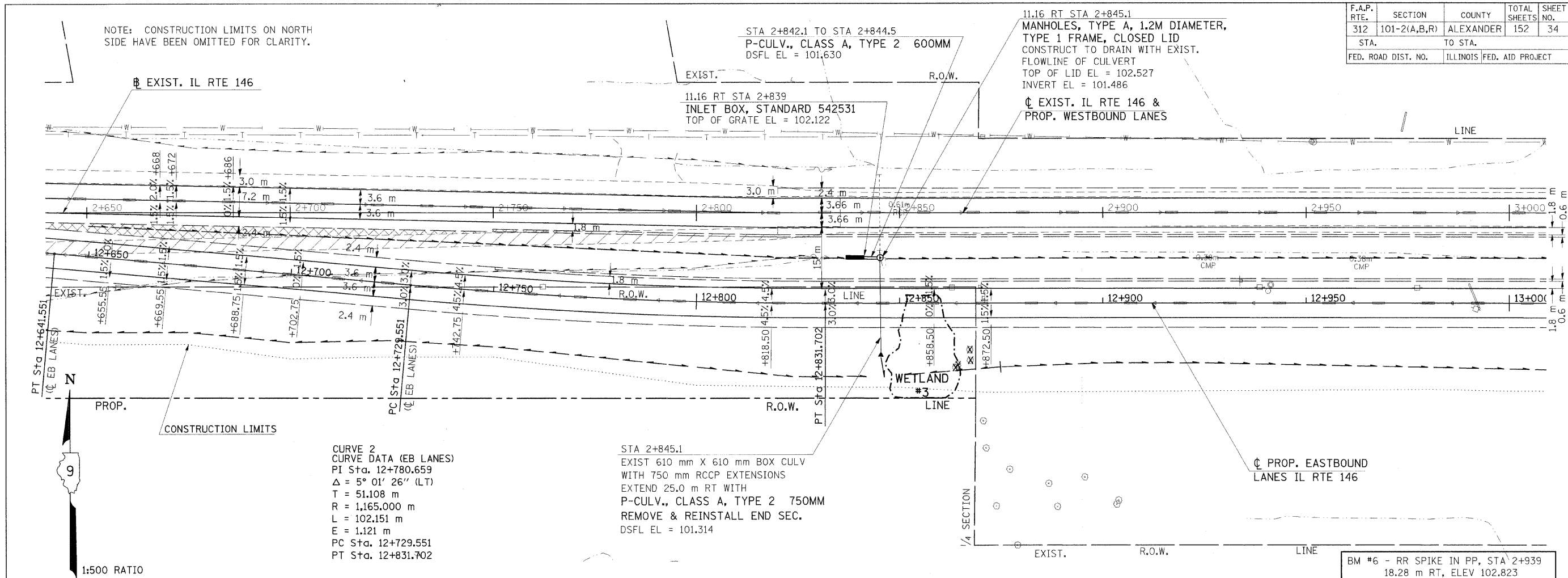


PLAN-PROFILE - STA 2+300 TO STA 2+650

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	34
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

NOTE: CONSTRUCTION LIMITS ON NORTH SIDE HAVE BEEN OMITTED FOR CLARITY.

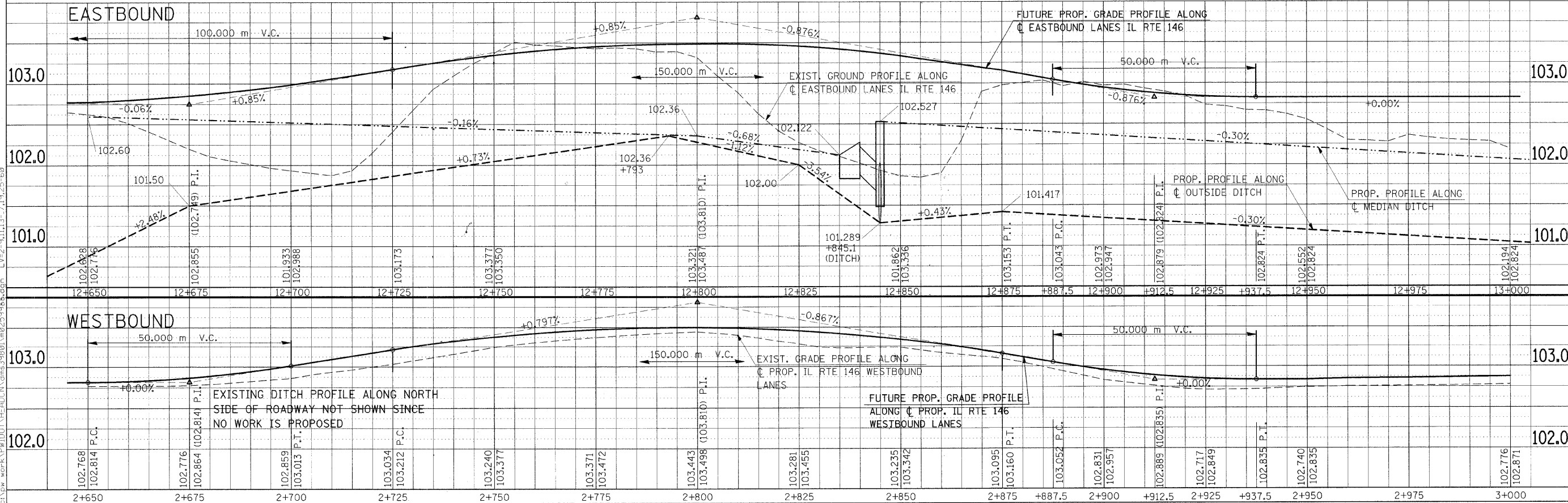
FINAL SURVEY	DATE
SURVEYED	
BY	
NOTED	
NOTE BOOK	
REPLATE	
NO.	
AREAS CHECKED	



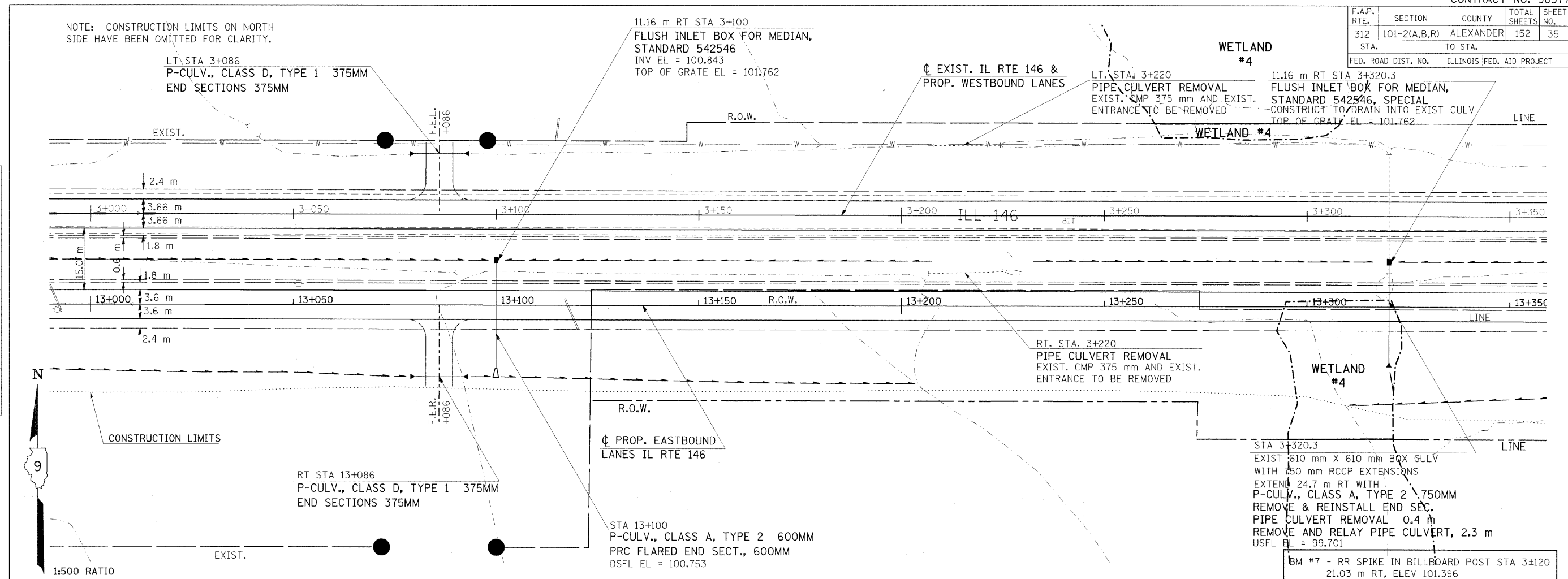
CURVE 2
CURVE DATA (EB LANES)
PI Sta. 12+780.659
 $\Delta = 5^\circ 01' 26''$ (LT)
T = 51.108 m
R = 1,165.000 m
L = 102.151 m
E = 1.121 m
PC Sta. 12+729.551
PT Sta. 12+831.702

STA 2+845.1
EXIST 610 mm X 610 mm BOX CULV
WITH 750 mm RCCP EXTENSIONS
EXTEND 25.0 m RT WITH
P-CULV., CLASS A, TYPE 2 750MM
REMOVE & REINSTALL END SEC.
DSFL EL = 101.314

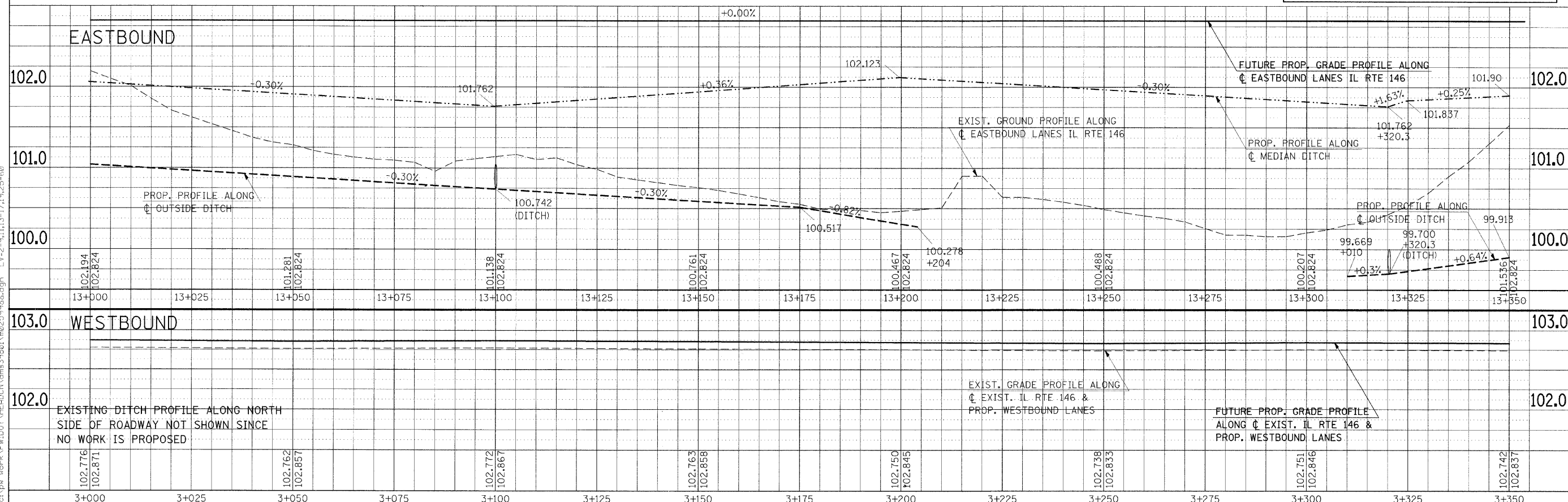
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.
312	101-2(A,B,R)	ALEXANDER	152
STA.	TO STA.	ILLINOIS FED. AID PROJECT	
		152	35



FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	NO.		
	AREAS CHECKED		

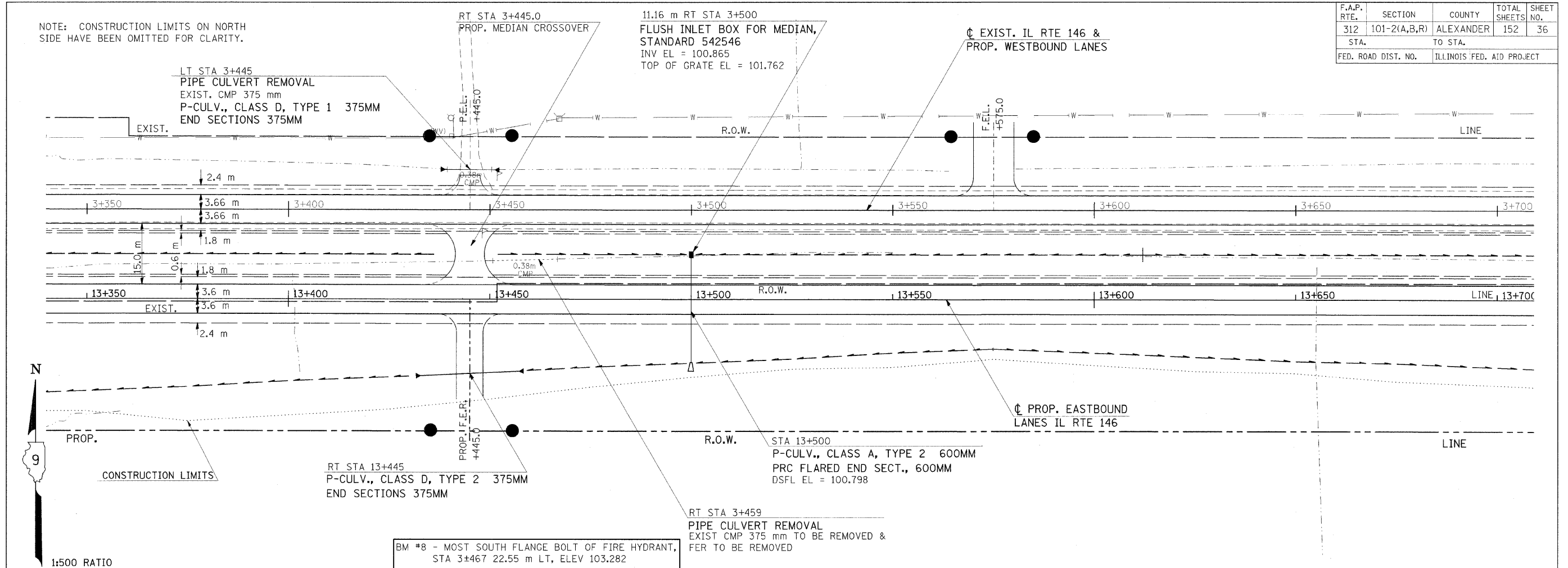


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PLAN-PROFILE - STA 3+000 TO STA 3+350

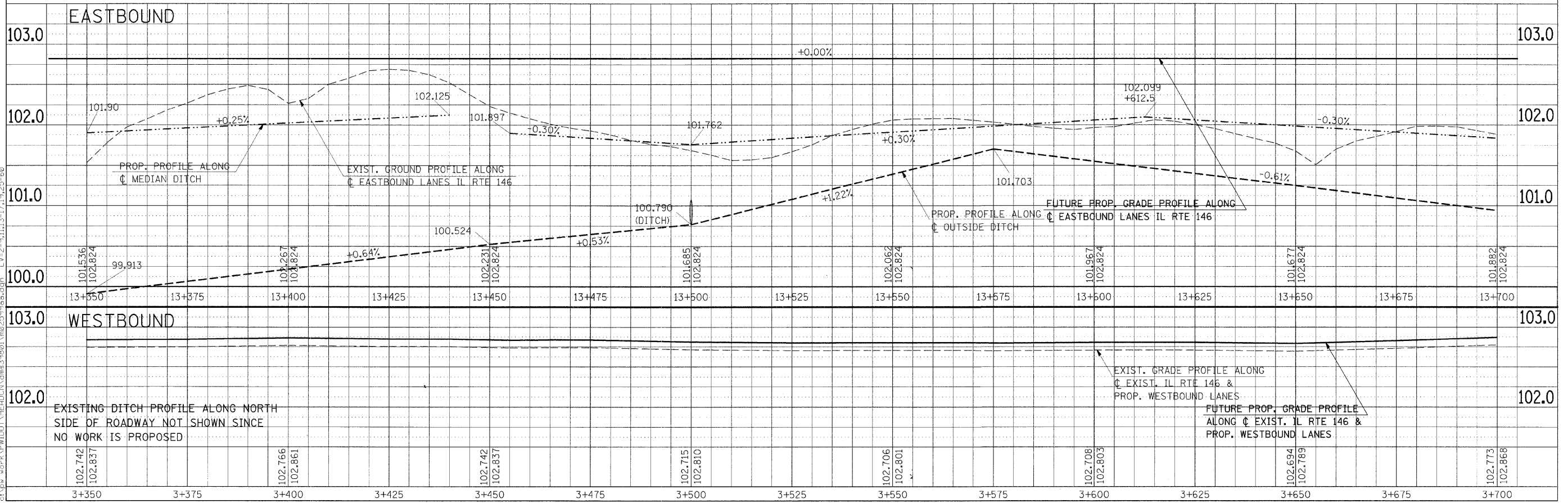
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312	101-2(A,B,R)	ALEXANDER	152	36
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

NOTE: CONSTRUCTION LIMITS ON NORTH SIDE HAVE BEEN OMITTED FOR CLARITY.



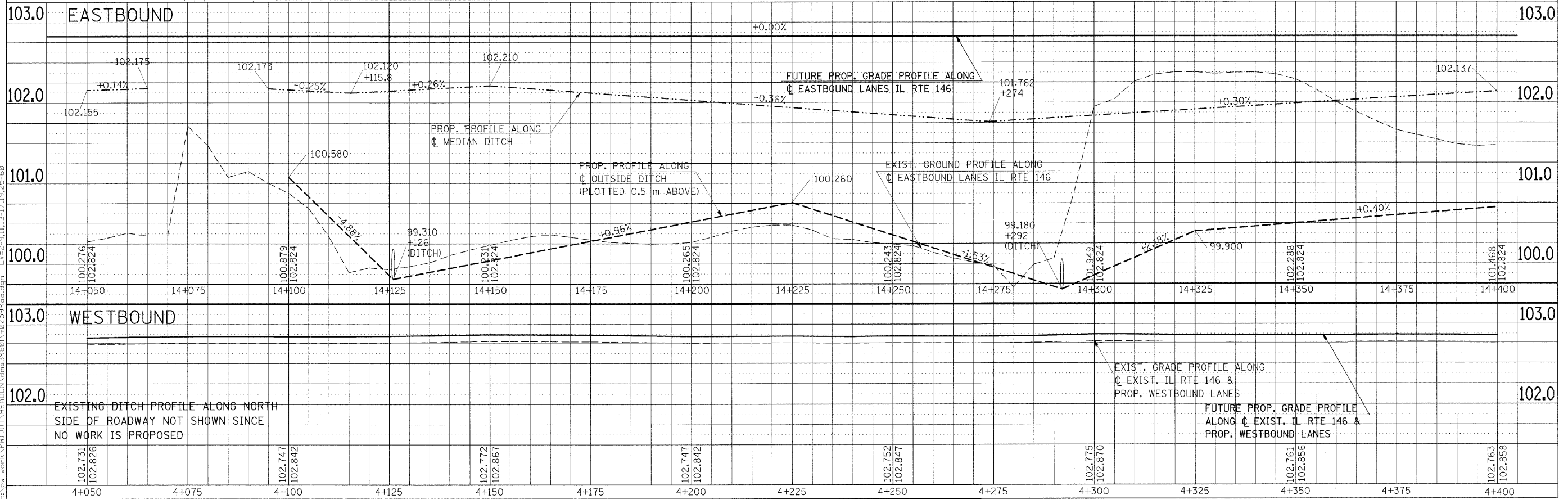
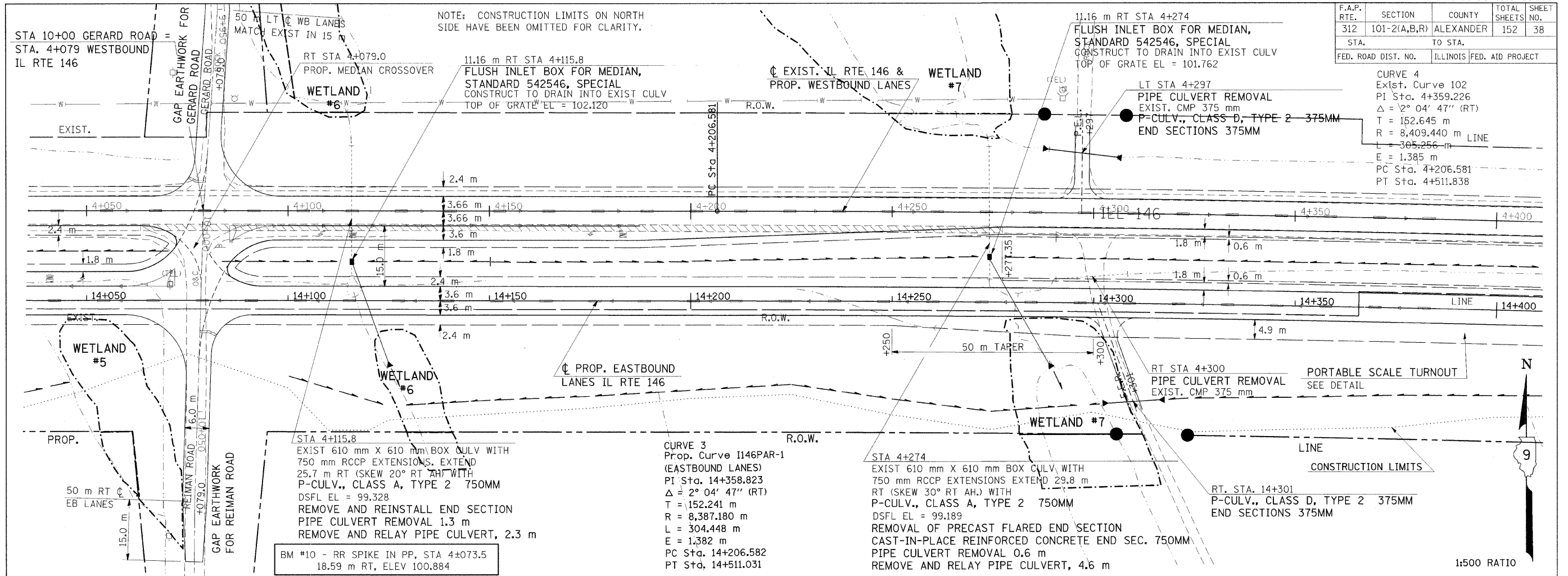
FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
REVISED		
DATE		
NO.		

Final Survey Plotted
 Note Book
 Revised
 Date
 No.



PLAN-PROFILE - STA 3+350 TO STA 3+700

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	38
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLAN-PROFILE - STA 4+050 TO STA 4+400

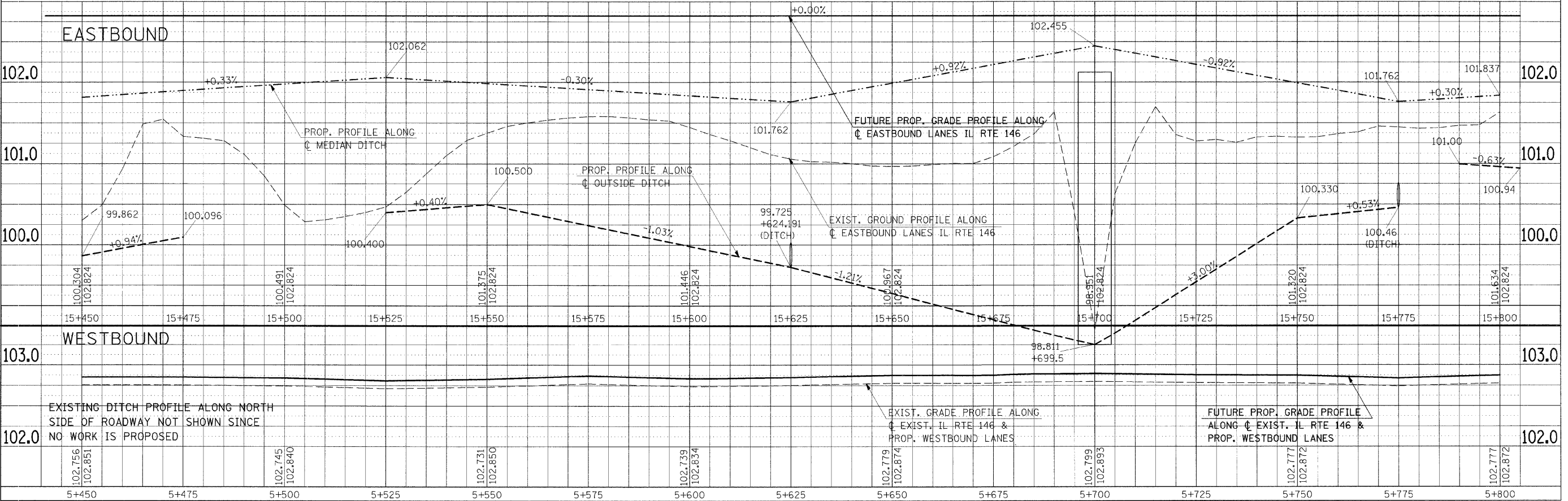
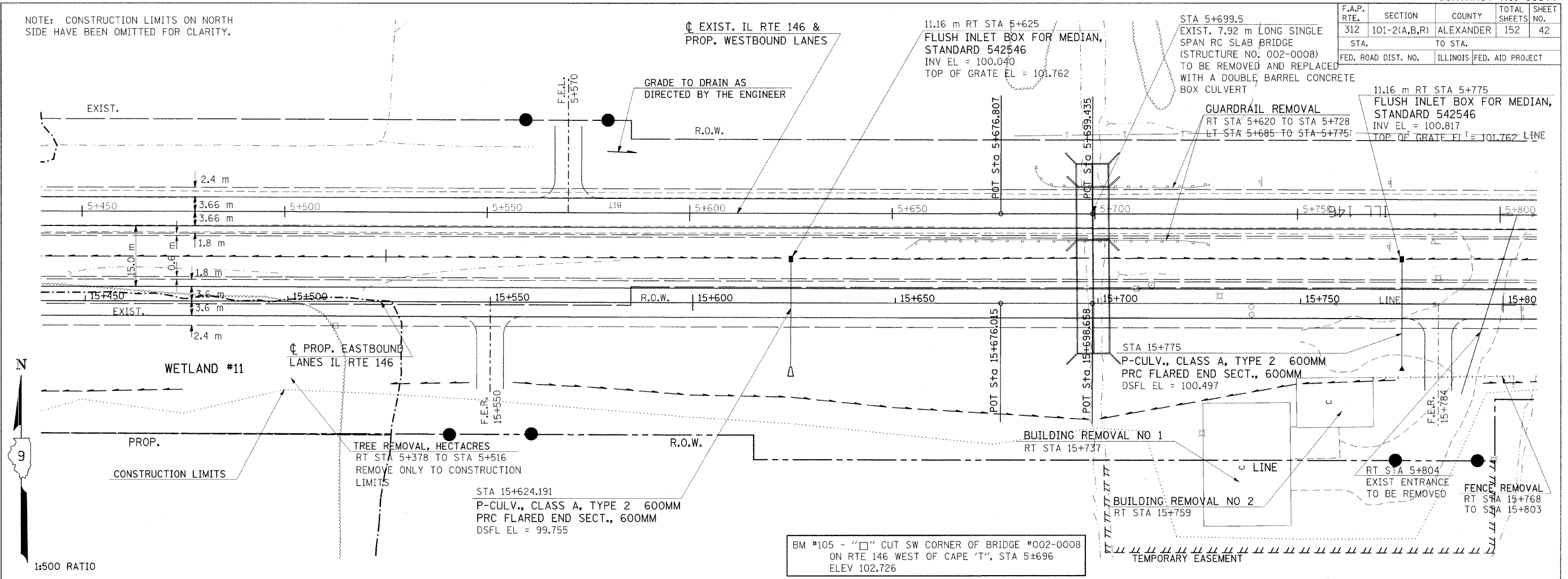
FINAL SURVEY	BY	DATE
SURVEY		
FLIPPED		
NOTE BOOK		
NO.:		

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	42
STA.	TO STA.			
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

NOTE: CONSTRUCTION LIMITS ON NORTH SIDE HAVE BEEN OMITTED FOR CLARITY.

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
DATE		
AREAS		
CHECKED		
NO.		

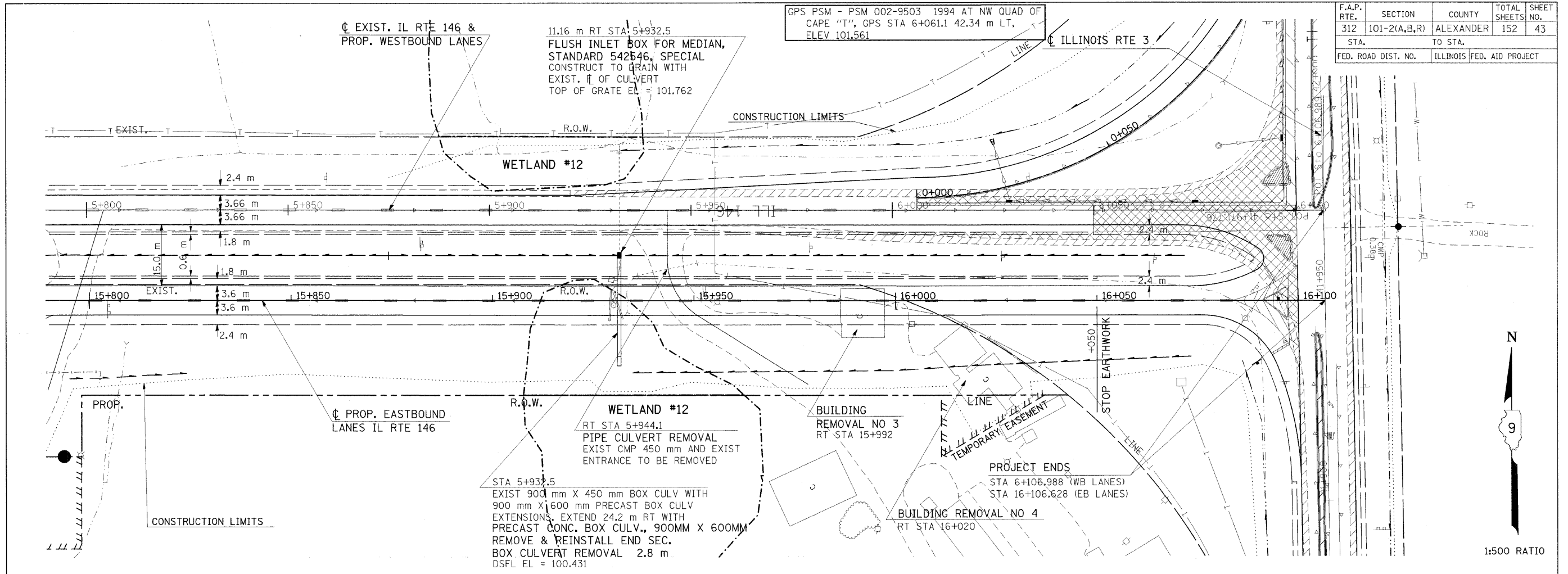


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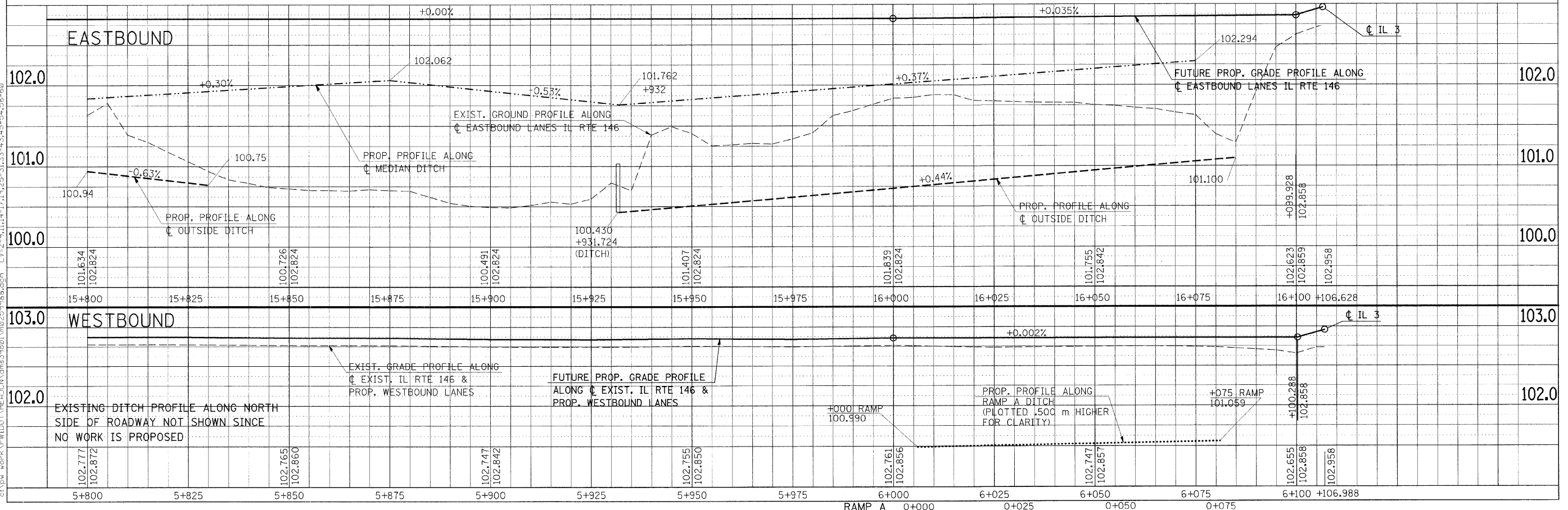
PLAN-PROFILE - STA 5+450 TO STA 5+800

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	43
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

GPS PSM - PSM 002-9503 1994 AT NW QUAD OF CAPE "T", GPS STA 6+061.1 42.34 m LT, ELEV 101.561

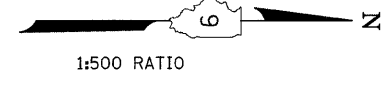


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SURVEYED		
PLOTTED		
TEMP. DATE		
NOTE BOOK		
AREAS CHECKED		
NO.		



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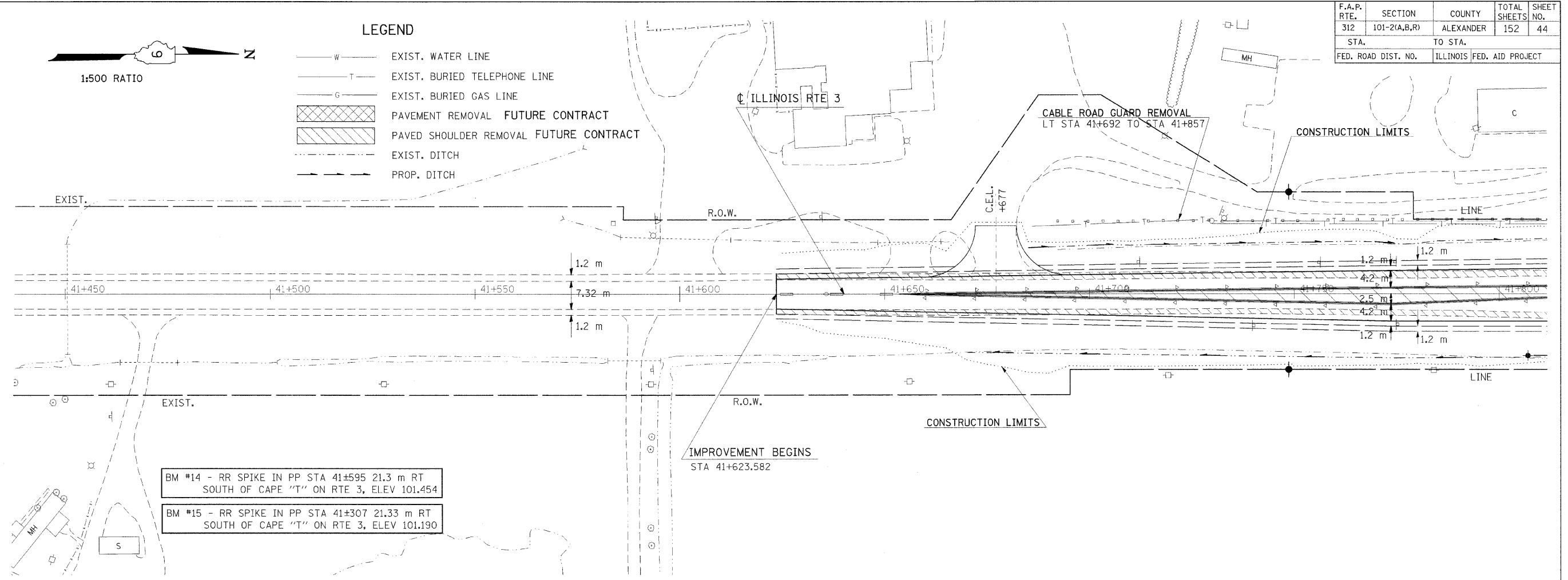
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312	101-2(A,B,R)	ALEXANDER	152	44
STA. TO STA.		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.				



LEGEND

- W — EXIST. WATER LINE
- T — EXIST. BURIED TELEPHONE LINE
- G — EXIST. BURIED GAS LINE
- [Cross-hatched box] PAVEMENT REMOVAL FUTURE CONTRACT
- [Diagonal hatched box] PAVED SHOULDER REMOVAL FUTURE CONTRACT
- - - - - EXIST. DITCH
- - - - - PROP. DITCH

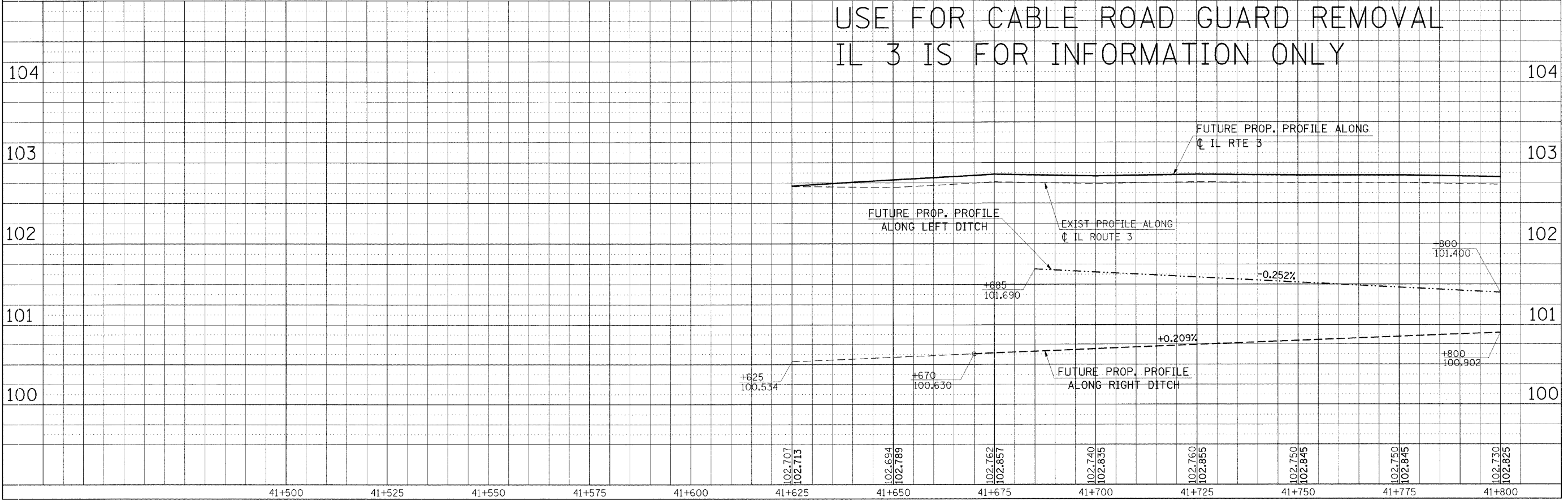
BY	DATE
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



BM #14 - RR SPIKE IN PP STA 41+595 21.3 m RT
SOUTH OF CAPE "T" ON RTE 3, ELEV 101.454

BM #15 - RR SPIKE IN PP STA 41+307 21.33 m RT
SOUTH OF CAPE "T" ON RTE 3, ELEV 101.190

USE FOR CABLE ROAD GUARD REMOVAL
IL 3 IS FOR INFORMATION ONLY



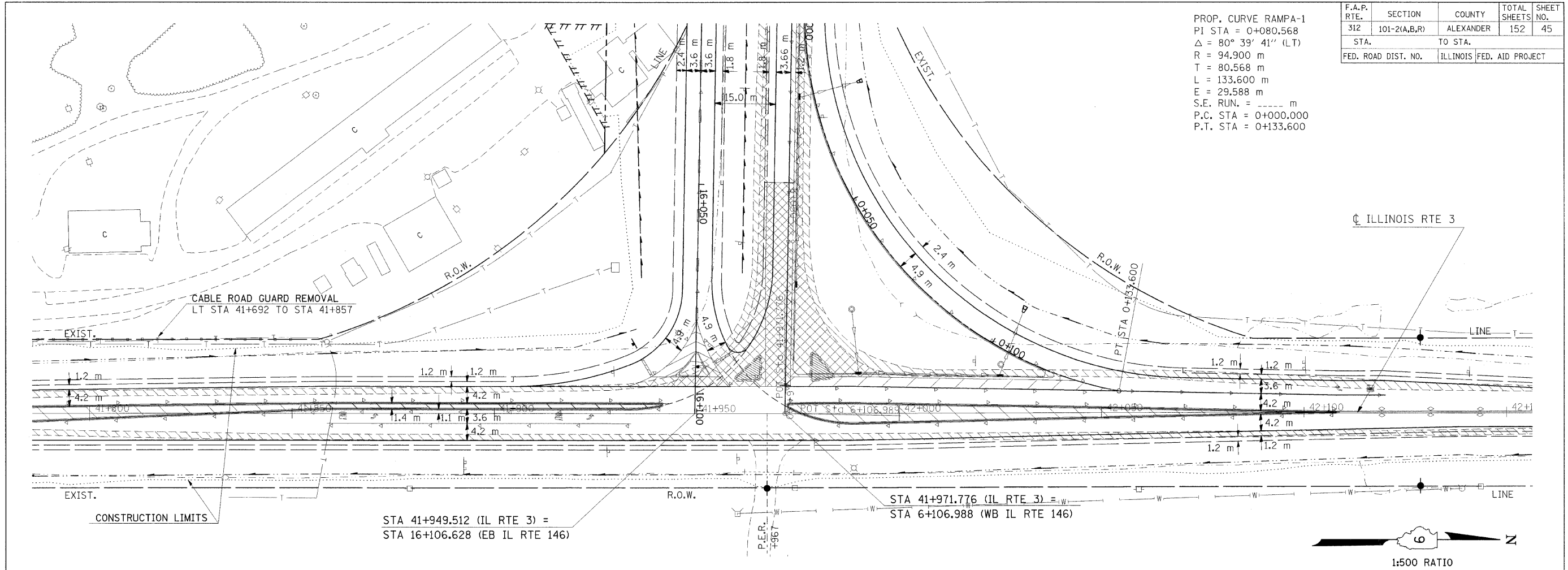
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ROUTE 3 PLAN-PROFILE - STA 41+450 TO STA 41+800

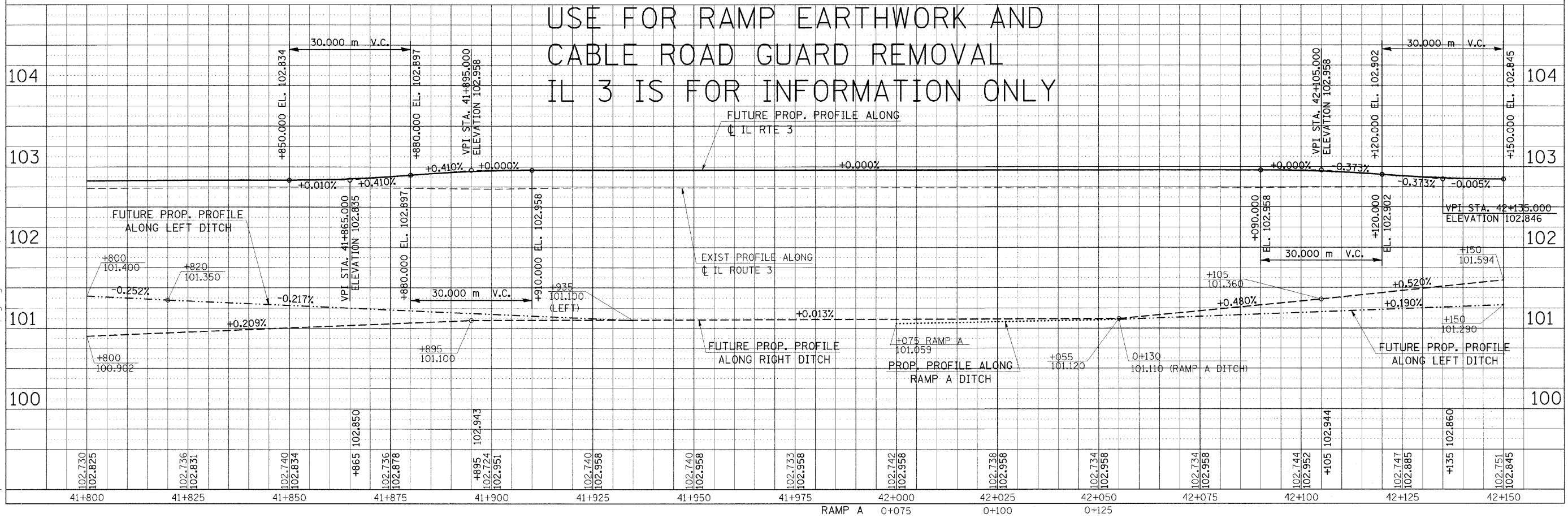
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	45
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

PROP. CURVE RAMP A-1
 PI STA = 0+080.568
 $\Delta = 80^\circ 39' 41''$ (LT)
 R = 94.900 m
 T = 80.568 m
 L = 133.600 m
 E = 29.588 m
 S.E. RUN. = ----- m
 P.C. STA = 0+000.000
 P.T. STA = 0+133.600

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
TEMP. AREAS		
CHECKED		
NO.		



USE FOR RAMP EARTHWORK AND
 CABLE ROAD GUARD REMOVAL
 IL 3 IS FOR INFORMATION ONLY



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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	46
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

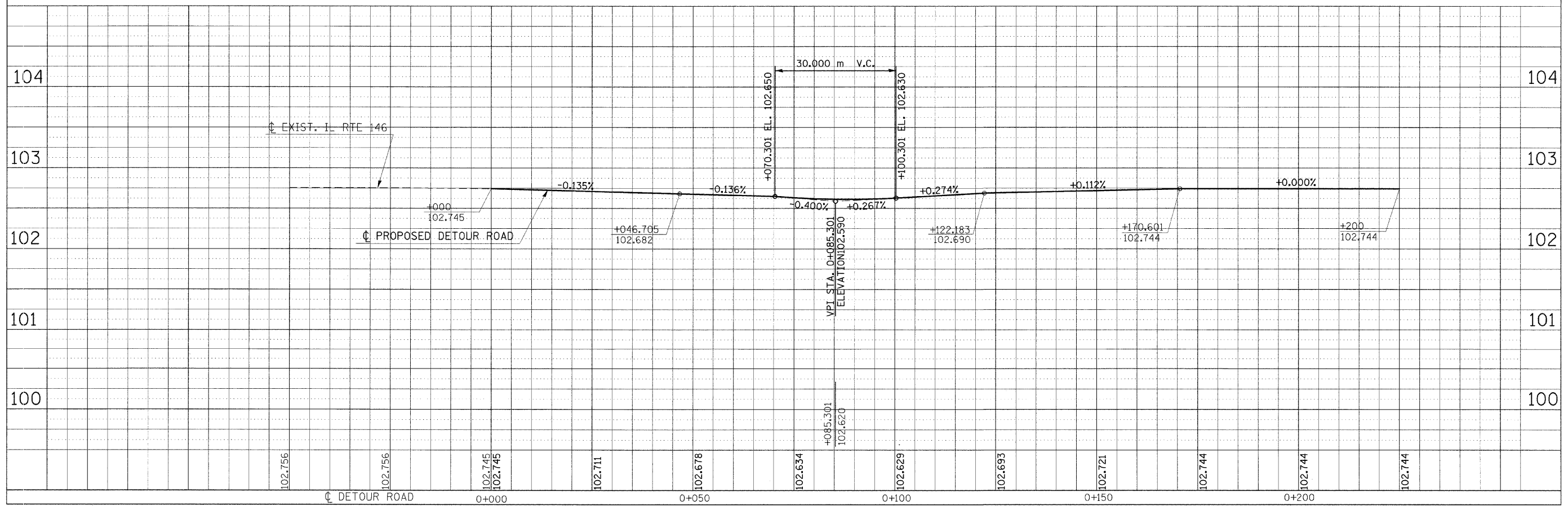
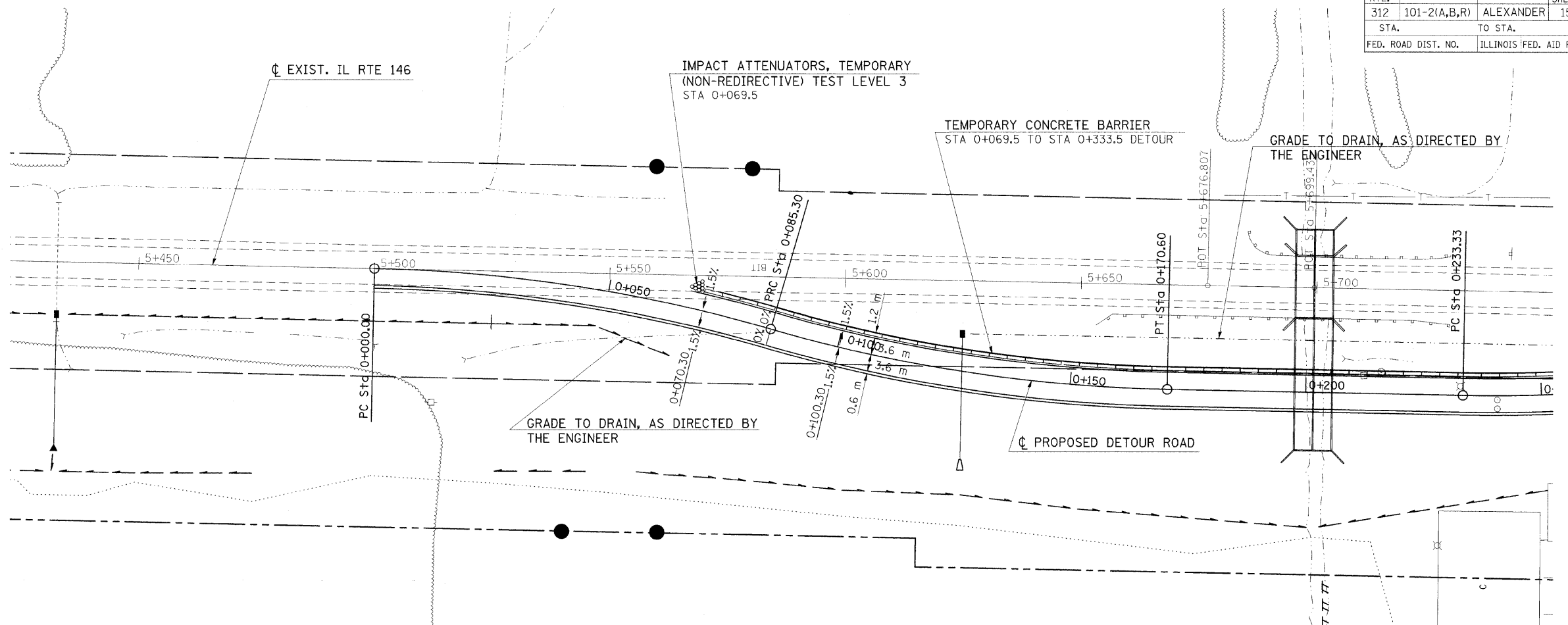
N
1:500 RATIO



CURVE 5
Prop. Curve DETA
PI Sta. 0+042.90
 $\Delta = 15^\circ 02' 16.89''$
T = 42.897 m
R = 325.000 m
L = 85.056 m
E = 2.819 m
PC Sta. 0+000.000
PT Sta. 0+085.300

CURVE 6
Prop. Curve DETA.2
PI Sta. 0+128.200
 $\Delta = 15^\circ 02' 16.90''$ (LT)
T = 42.897 m
R = 325.000 m
L = 85.056 m
E = 2.819 m
PC Sta. 0+085.300
PT Sta. 0+170.600

NO.	AREAS CHECKED	DATE	BY



PLAN-PROFILE DETOUR ROAD - STA 0+000 TO STA 0+225

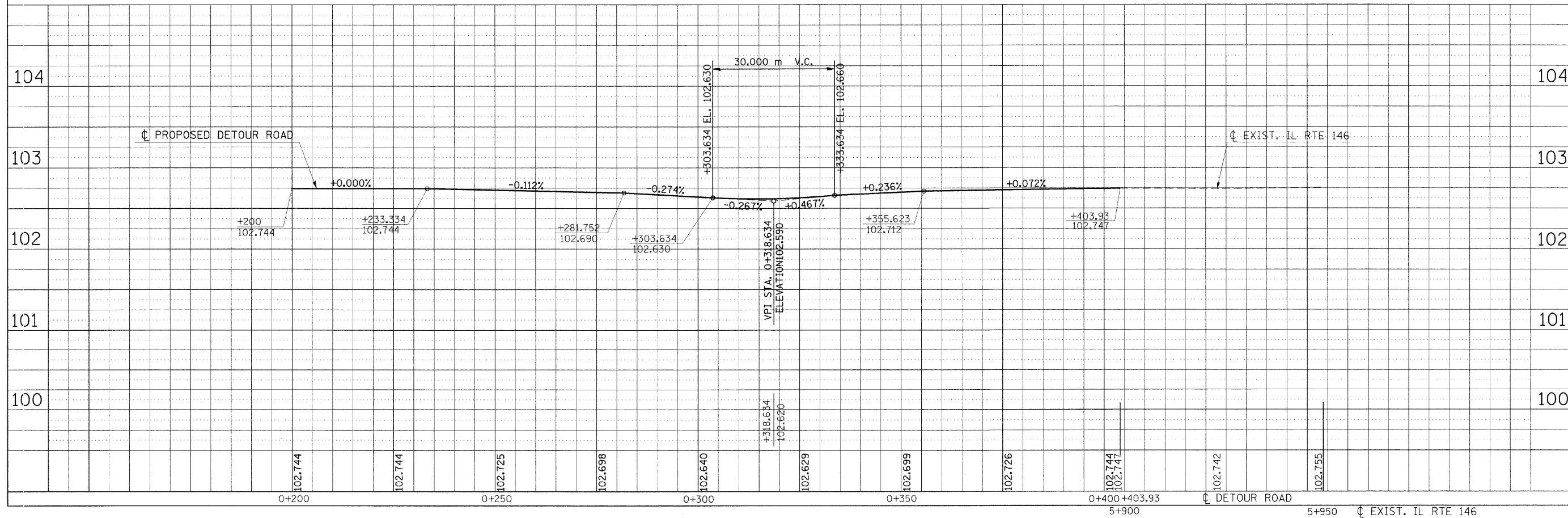
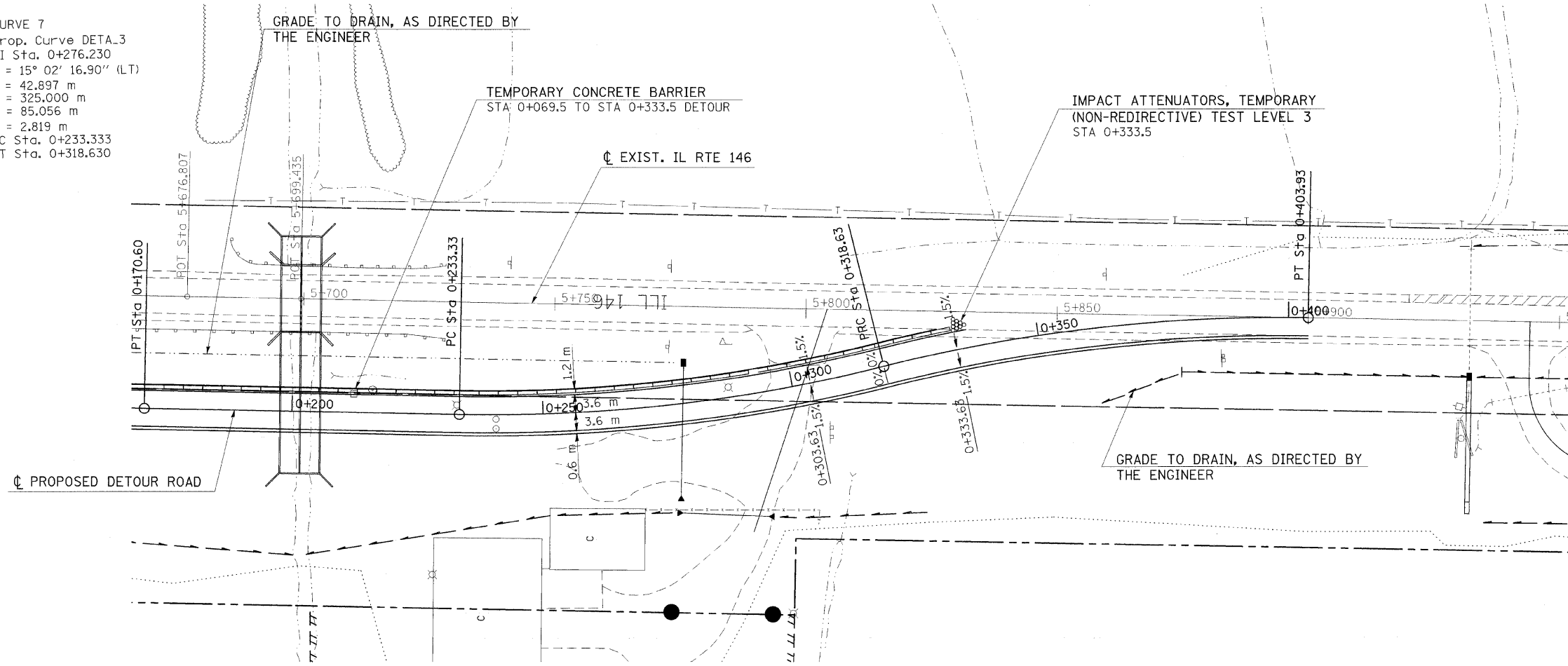
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	47
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CURVE 7
 Prop. Curve DETA.3
 PI Sta. 0+276.230
 $\Delta = 15^\circ 02' 16.90''$ (LT)
 T = 42.897 m
 R = 325.000 m
 L = 85.056 m
 E = 2.819 m
 PC Sta. 0+233.333
 PT Sta. 0+318.630

CURVE 8
 Prop. Curve DETA.4
 PI Sta. 0+361.530
 $\Delta = 15^\circ 02' 16.90''$ (LT)
 T = 42.897 m
 R = 325.000 m
 L = 85.056 m
 E = 2.819 m
 PC Sta. 0+318.630
 PT Sta. 0+403.930

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
TEMPLATE		
AREAS		
CHECKED		
NO.		



Thursday October 30, 2008 @ 2:22:30 PM
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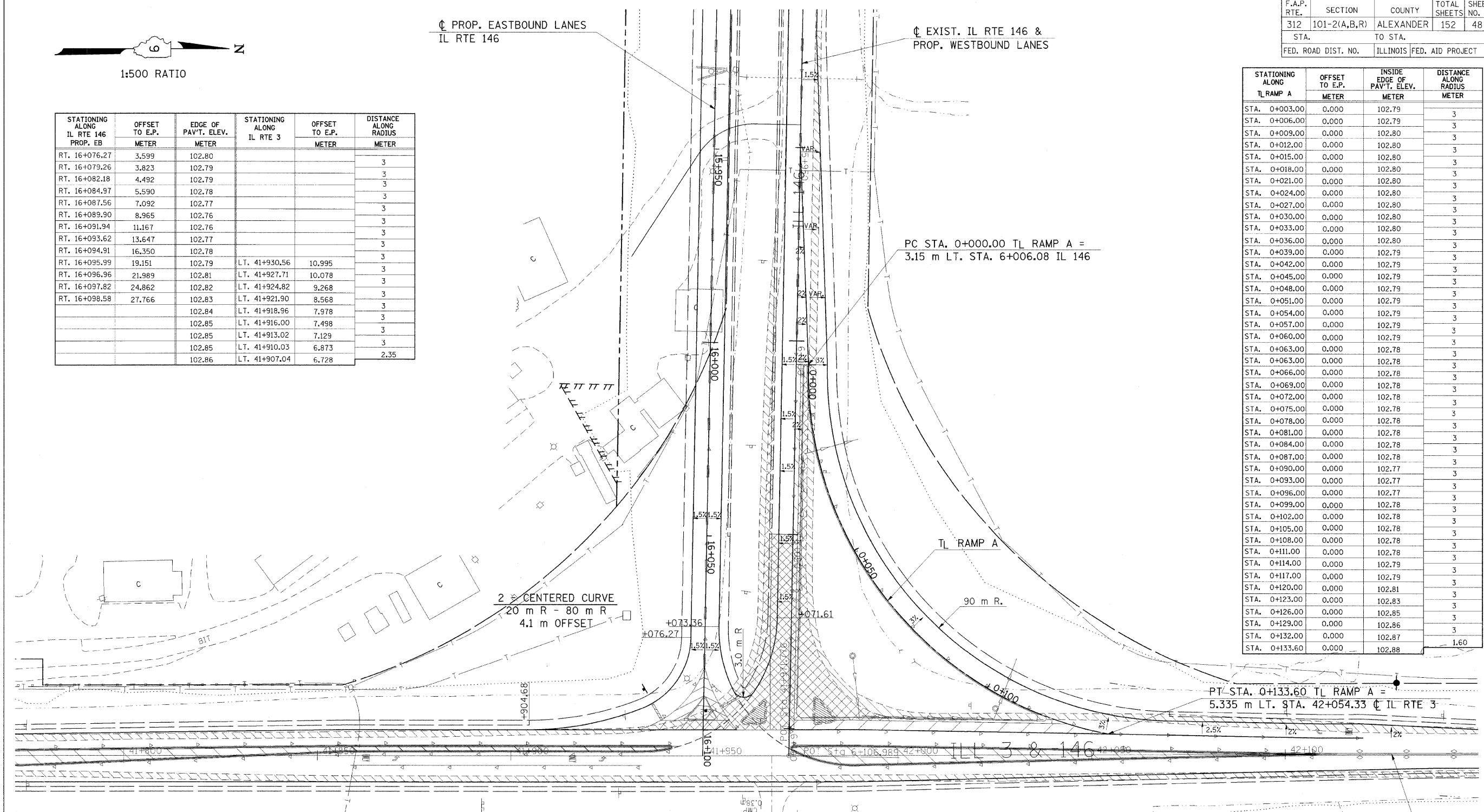
1:500 RATIO



STATIONING ALONG IL RTE 146 PROP. EB	OFFSET TO E.P. METER	EDGE OF PAV'T. ELEV. METER	STATIONING ALONG IL RTE 3	OFFSET TO E.P. METER	DISTANCE ALONG RADIUS METER
RT. 16+076.27	3.599	102.80			3
RT. 16+079.26	3.823	102.79			3
RT. 16+082.18	4.492	102.79			3
RT. 16+084.97	5.590	102.78			3
RT. 16+087.56	7.092	102.77			3
RT. 16+089.90	8.965	102.76			3
RT. 16+091.94	11.167	102.76			3
RT. 16+093.62	13.647	102.77			3
RT. 16+094.91	16.350	102.78			3
RT. 16+095.99	19.151	102.79	LT. 41+930.56	10.995	3
RT. 16+096.96	21.989	102.81	LT. 41+927.71	10.078	3
RT. 16+097.82	24.862	102.82	LT. 41+924.82	9.268	3
RT. 16+098.58	27.766	102.83	LT. 41+921.90	8.568	3
		102.84	LT. 41+918.96	7.978	3
		102.85	LT. 41+916.00	7.498	3
		102.85	LT. 41+913.02	7.129	3
		102.85	LT. 41+910.03	6.873	3
		102.86	LT. 41+907.04	6.728	2.35

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	48
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STATIONING ALONG TL RAMP A	OFFSET TO E.P. METER	INSIDE EDGE OF PAV'T. ELEV. METER	DISTANCE ALONG RADIUS METER
STA. 0+003.00	0.000	102.79	3
STA. 0+006.00	0.000	102.79	3
STA. 0+009.00	0.000	102.80	3
STA. 0+012.00	0.000	102.80	3
STA. 0+015.00	0.000	102.80	3
STA. 0+018.00	0.000	102.80	3
STA. 0+021.00	0.000	102.80	3
STA. 0+024.00	0.000	102.80	3
STA. 0+027.00	0.000	102.80	3
STA. 0+030.00	0.000	102.80	3
STA. 0+033.00	0.000	102.80	3
STA. 0+036.00	0.000	102.80	3
STA. 0+039.00	0.000	102.79	3
STA. 0+042.00	0.000	102.79	3
STA. 0+045.00	0.000	102.79	3
STA. 0+048.00	0.000	102.79	3
STA. 0+051.00	0.000	102.79	3
STA. 0+054.00	0.000	102.79	3
STA. 0+057.00	0.000	102.79	3
STA. 0+060.00	0.000	102.79	3
STA. 0+063.00	0.000	102.78	3
STA. 0+066.00	0.000	102.78	3
STA. 0+069.00	0.000	102.78	3
STA. 0+072.00	0.000	102.78	3
STA. 0+075.00	0.000	102.78	3
STA. 0+078.00	0.000	102.78	3
STA. 0+081.00	0.000	102.78	3
STA. 0+084.00	0.000	102.78	3
STA. 0+087.00	0.000	102.78	3
STA. 0+090.00	0.000	102.77	3
STA. 0+093.00	0.000	102.77	3
STA. 0+096.00	0.000	102.77	3
STA. 0+099.00	0.000	102.78	3
STA. 0+102.00	0.000	102.78	3
STA. 0+105.00	0.000	102.78	3
STA. 0+108.00	0.000	102.78	3
STA. 0+111.00	0.000	102.78	3
STA. 0+114.00	0.000	102.79	3
STA. 0+117.00	0.000	102.79	3
STA. 0+120.00	0.000	102.81	3
STA. 0+123.00	0.000	102.83	3
STA. 0+126.00	0.000	102.85	3
STA. 0+129.00	0.000	102.86	3
STA. 0+132.00	0.000	102.87	3
STA. 0+133.60	0.000	102.88	1.60



STATIONING ALONG ILL 146 EB	OFFSET TO E.P. METER	MEDIAN EDGE OF PAV'T. ELEV. METER	DISTANCE ALONG EDGE METER
LT. 16+073.36	3.602	102.80	3
LT. 16+076.36	3.730	102.79	3
LT. 16+079.33	4.115	102.79	3
LT. 16+082.26	4.752	102.78	3
LT. 16+085.13	5.639	102.77	3
LT. 16+087.90	6.767	102.75	3
LT. 16+089.80	7.703	102.74	2.116

STATIONING ALONG ILL 146 WB	OFFSET TO E.P. METER	MEDIAN EDGE OF PAV'T. ELEV. METER	DISTANCE ALONG EDGE METER
RT. 6+071.61	3.658	102.80	3
RT. 6+074.60	3.787	102.80	3
RT. 6+077.58	4.172	102.79	3
RT. 6+080.51	4.809	102.78	3
RT. 6+083.37	5.695	102.77	3
RT. 6+086.15	6.824	102.75	2.333
RT. 6+088.82	8.186	102.73	
RT. 6+090.82	9.400	102.73	

STATIONING ALONG IL RTE 3	OFFSET TO OUTSIDE EDGE OF SHOULDER METER	OUTSIDE EDGE OF SHOULDER ELEVATION METER	DISTANCE ALONG EDGE METER
LT. 41+973.17	9.097	102.81	3
LT. 41+976.17	9.097	102.81	3
LT. 41+979.17	9.097	102.81	3
LT. 41+982.17	9.096	102.81	3
LT. 41+985.17	9.096	102.81	3
LT. 41+988.17	9.096	102.81	3
LT. 41+991.17	9.050	102.81	3
LT. 41+994.17	8.987	102.811	3
LT. 41+997.17	8.925	102.812	3
LT. 42+000.17	8.862	102.813	3
LT. 42+003.17	8.800	102.814	3
LT. 42+006.17	8.738	102.815	3
LT. 42+009.17	8.675	102.816	3

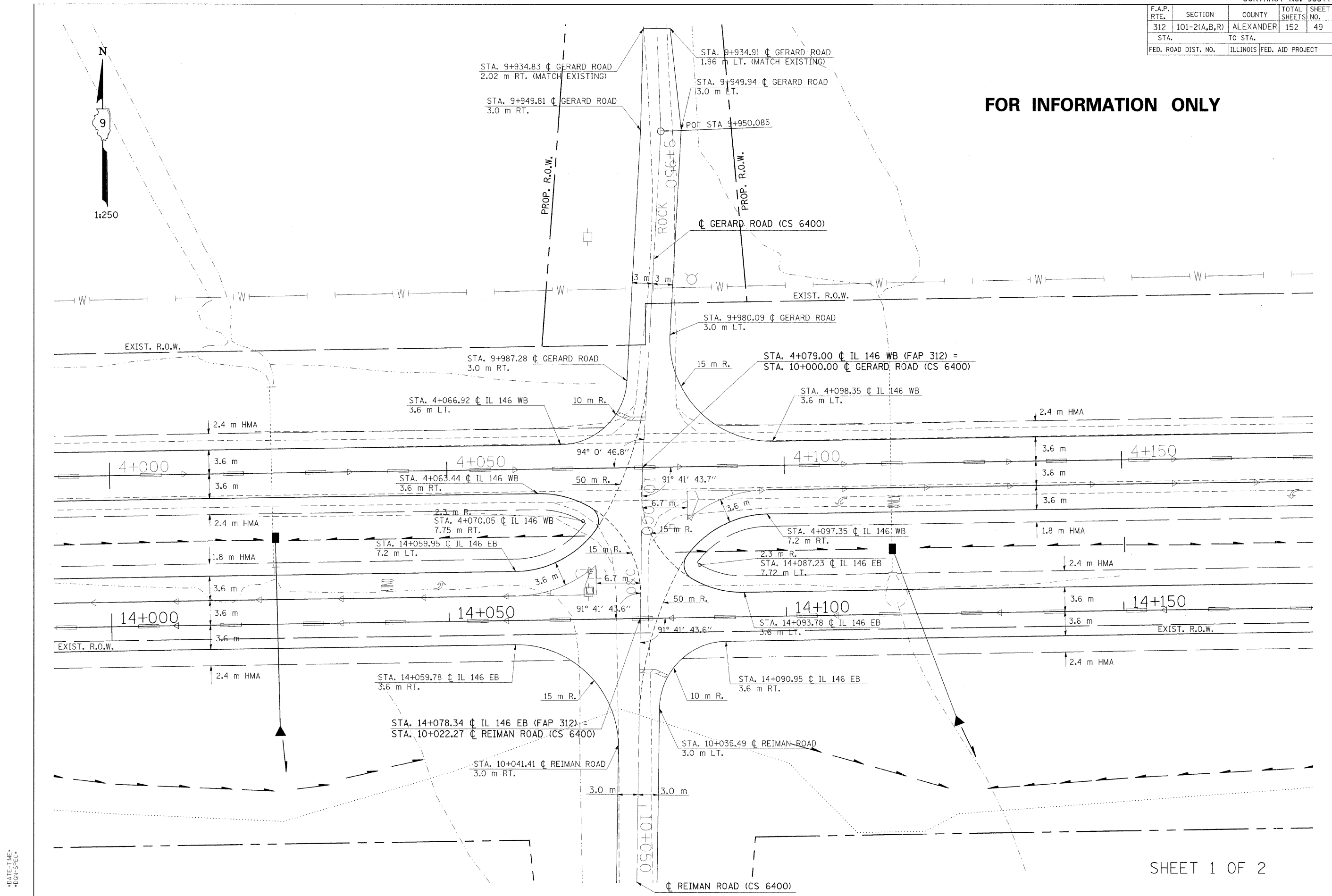
STATIONING ALONG IL RTE 3	OFFSET TO OUTSIDE EDGE OF SHOULDER METER	OUTSIDE EDGE OF SHOULDER ELEVATION METER	DISTANCE ALONG EDGE METER
LT. 42+010.00	8.658	102.816	3
LT. 42+012.17	8.611	102.817	3
LT. 42+015.17	8.549	102.818	3
LT. 42+018.17	8.487	102.819	3
LT. 42+021.17	8.425	102.821	3
LT. 42+024.17	8.363	102.821	3
LT. 42+027.17	8.301	102.821	3
LT. 42+030.17	8.239	102.822	3
LT. 42+033.17	8.177	102.823	3
LT. 42+036.17	8.115	102.824	3
LT. 42+039.17	8.053	102.825	3
LT. 42+039.72	8.038	102.825	0.550

DATE-TIME
 DGN-SPEC
 REF-geom1
 REF-geom2
 *REF-

CL FAP 14 (IL RTE 3)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	49
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

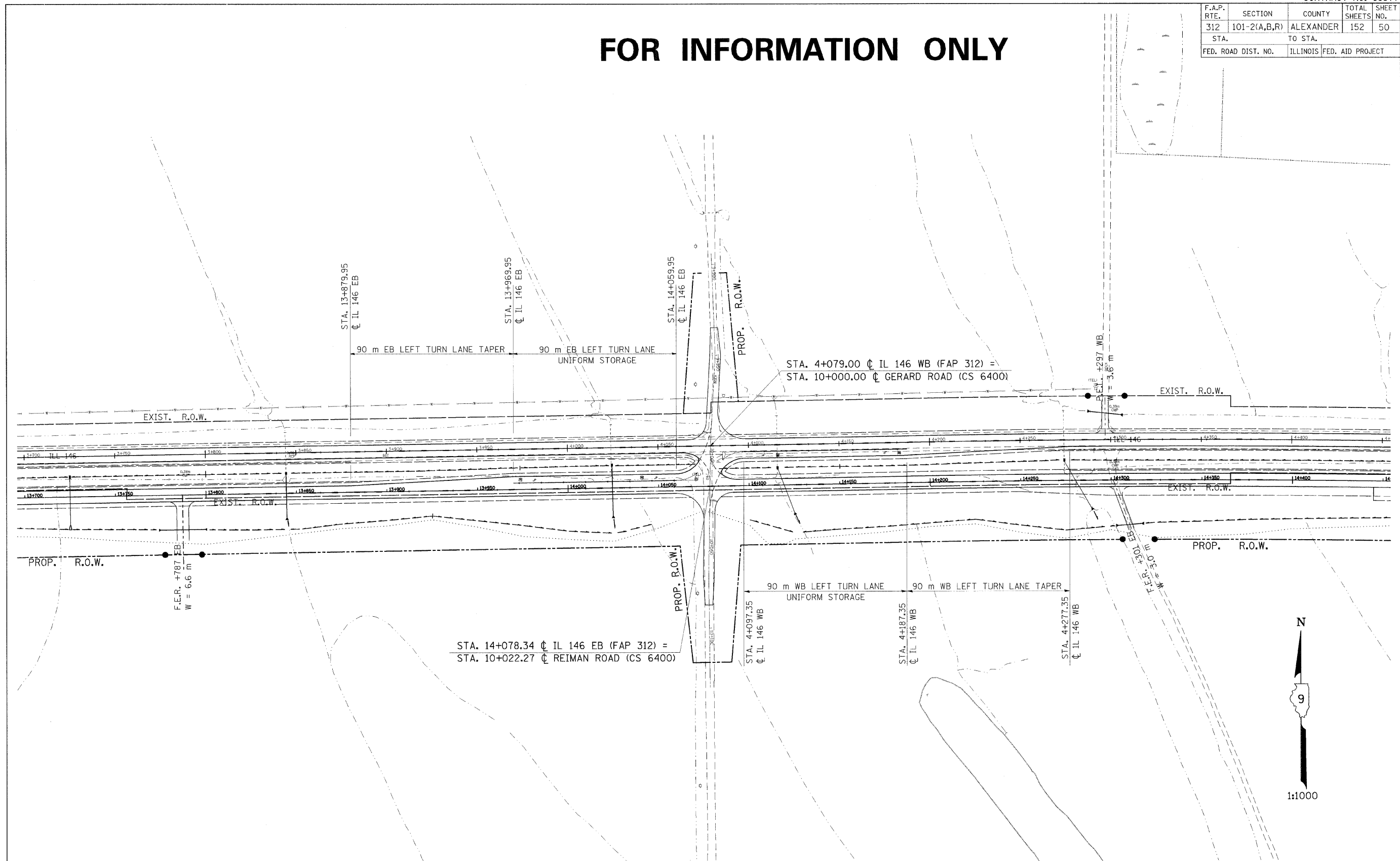
FOR INFORMATION ONLY



DATE-TIME
DGN-SPEC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	50
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

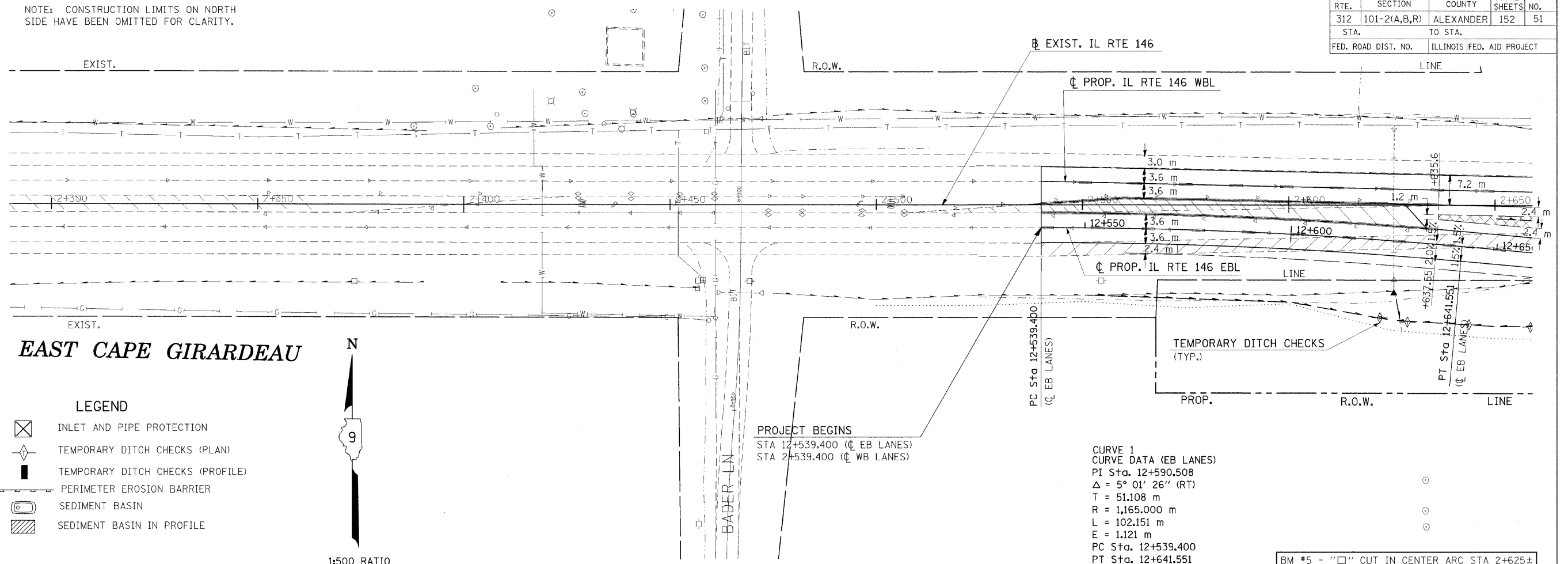
FOR INFORMATION ONLY



DATE-TIME
 DGN-SPEC
 *REF-
 *REF-
 *REF-

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	51
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

NOTE: CONSTRUCTION LIMITS ON NORTH SIDE HAVE BEEN OMITTED FOR CLARITY.



EAST CAPE GIRARDEAU

LEGEND

- INLET AND PIPE PROTECTION
- TEMPORARY DITCH CHECKS (PLAN)
- TEMPORARY DITCH CHECKS (PROFILE)
- PERIMETER EROSION BARRIER
- SEDIMENT BASIN
- SEDIMENT BASIN IN PROFILE

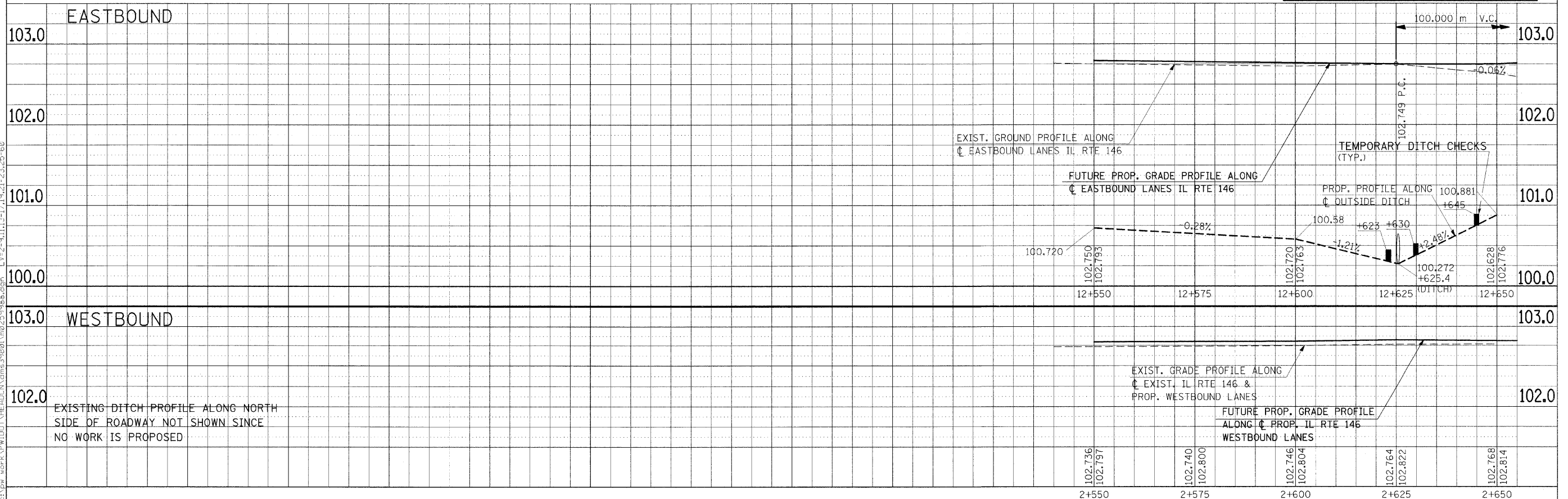


1:500 RATIO

PROJECT BEGINS
 STA 12+539.400 (☉ EB LANES)
 STA 2+539.400 (☉ WB LANES)

CURVE 1
 CURVE DATA (EB LANES)
 PI Sta. 12+590.508
 $\Delta = 5^\circ 01' 26''$ (RT)
 T = 51.108 m
 R = 1,165,000 m
 L = 102.151 m
 E = 1.121 m
 PC Sta. 12+539.400
 PT Sta. 12+641.551

BM #5 - "□" CUT IN CENTER ARC STA 2+625±
 11.88 m RT, ELEV 101.230



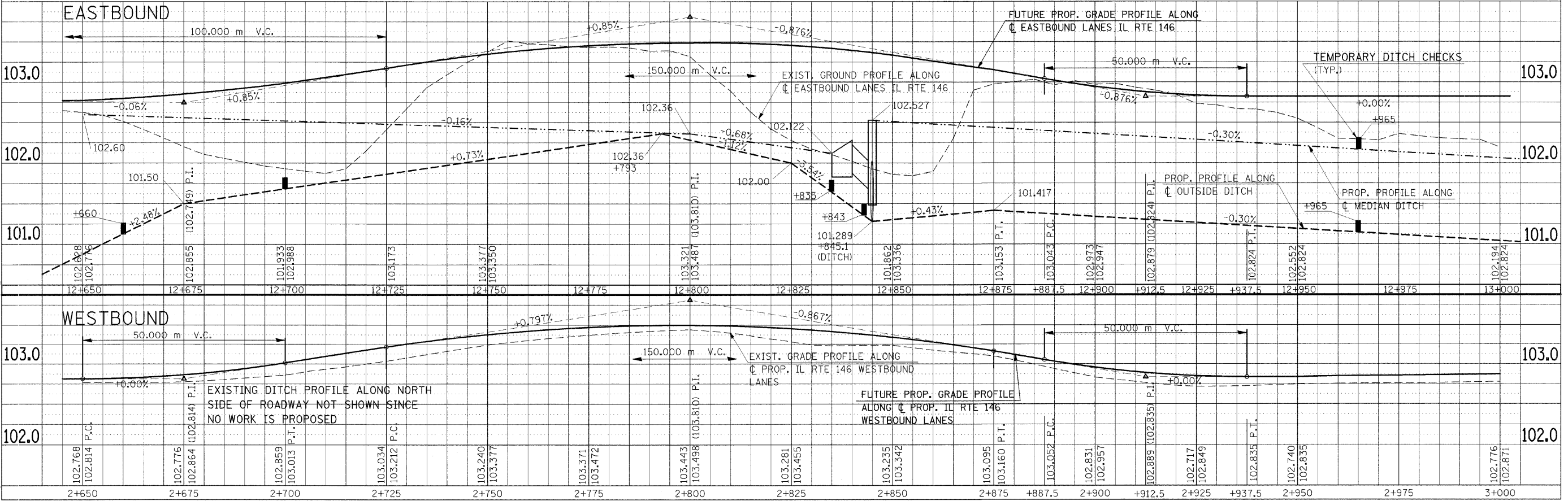
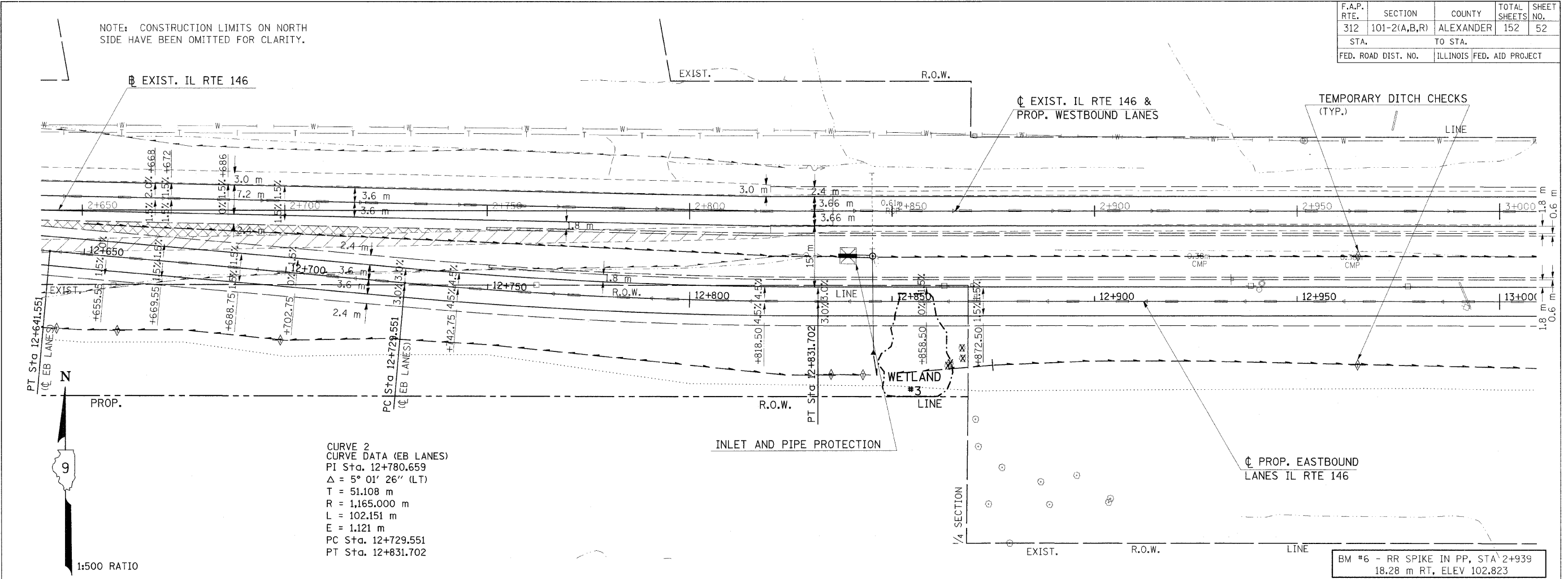
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TEMPORARY EROSION CONTROL PLAN - STA 2+300 TO STA 2+650

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.
312	101-2(A,B,R)	ALEXANDER	152
STA.	TO STA.		52
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	

NOTE: CONSTRUCTION LIMITS ON NORTH SIDE HAVE BEEN OMITTED FOR CLARITY.

BY	DATE
FINAL SURVEY	
SURVEY PLOTTED	
NOTE BOOK	
TEMPERATURE	
AREAS CHECKED	
NO.	



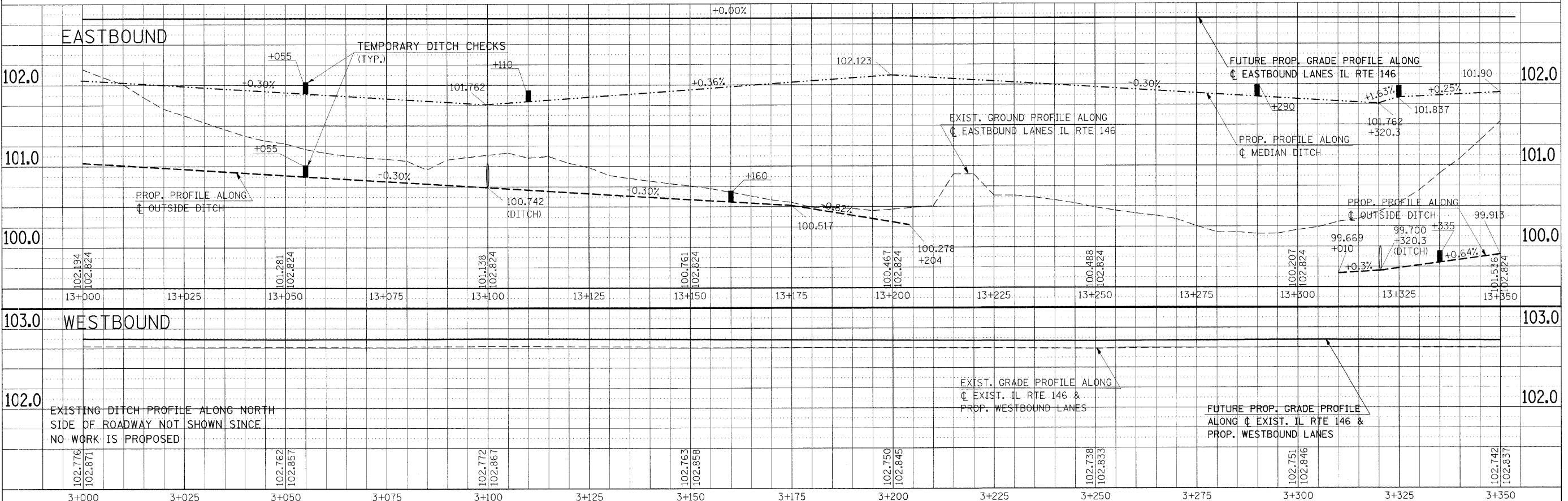
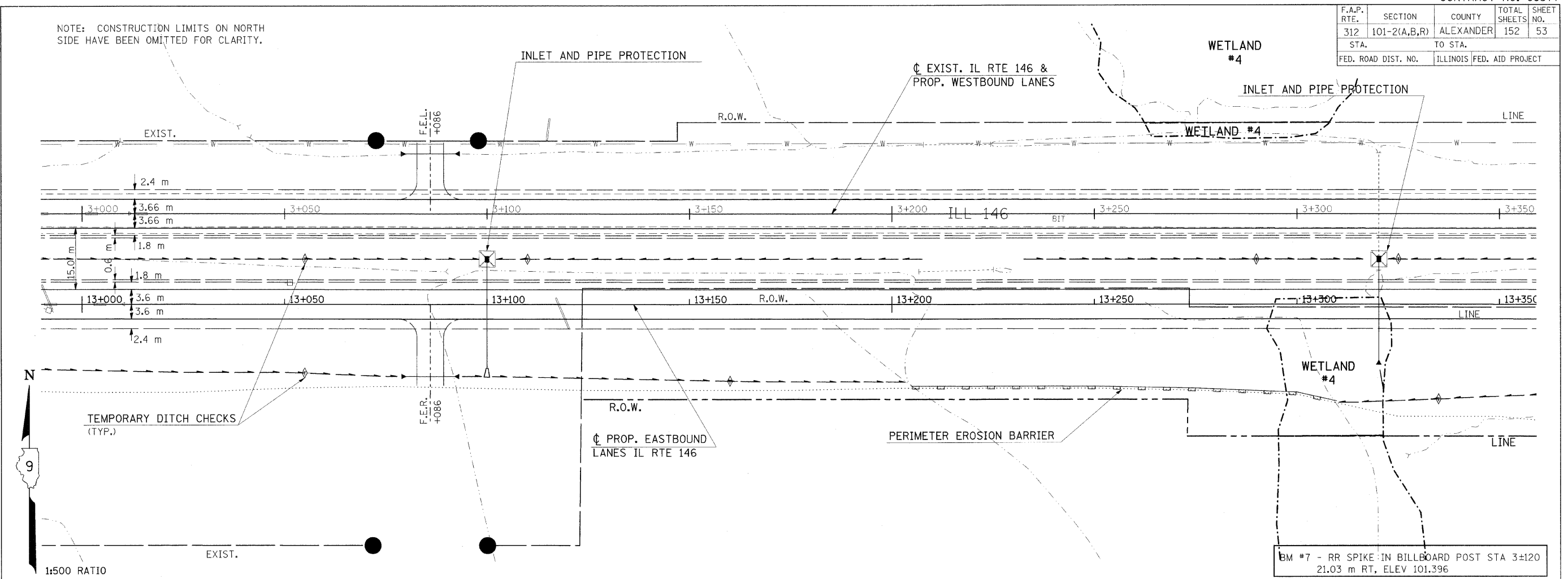
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TEMPORARY EROSION CONTROL PLAN - STA 2+650 TO STA 3+000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	53
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

NOTE: CONSTRUCTION LIMITS ON NORTH SIDE HAVE BEEN OMITTED FOR CLARITY.

FINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
TEMP. DATE	
NOTE BOOK NO.	
AREAS CHECKED	



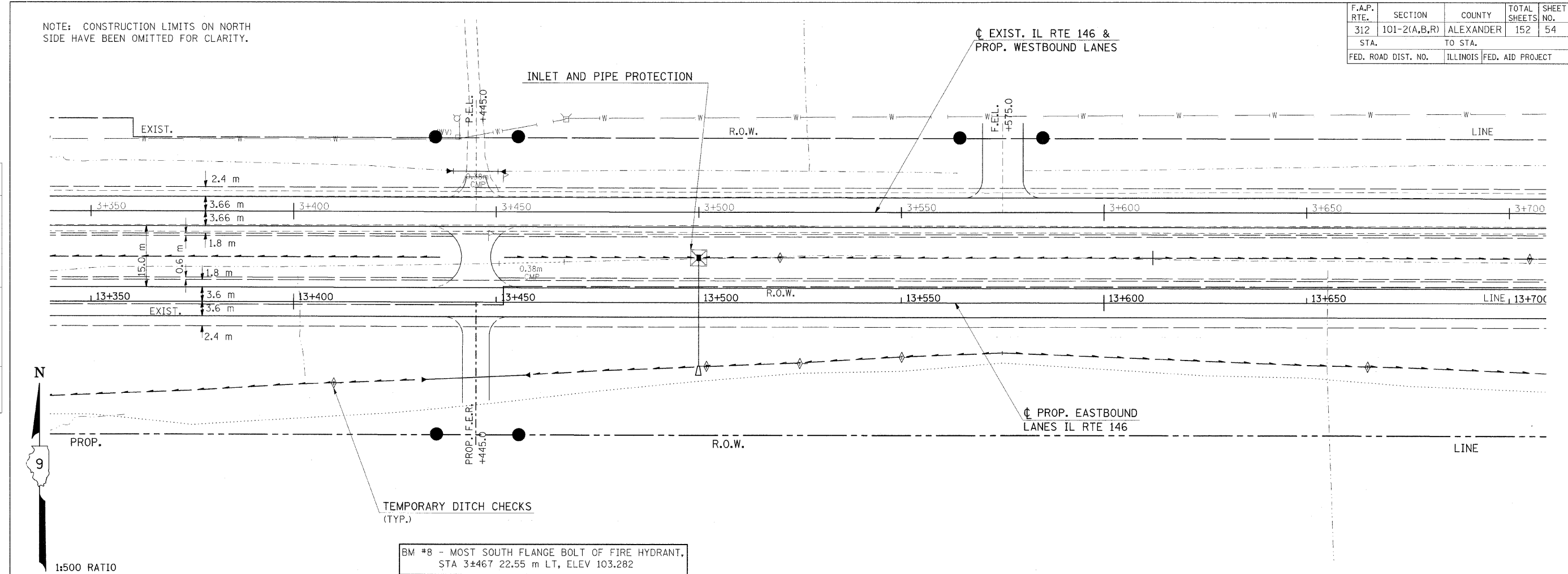
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TEMPORARY EROSION CONTROL PLAN - STA 3+000 TO STA 3+350

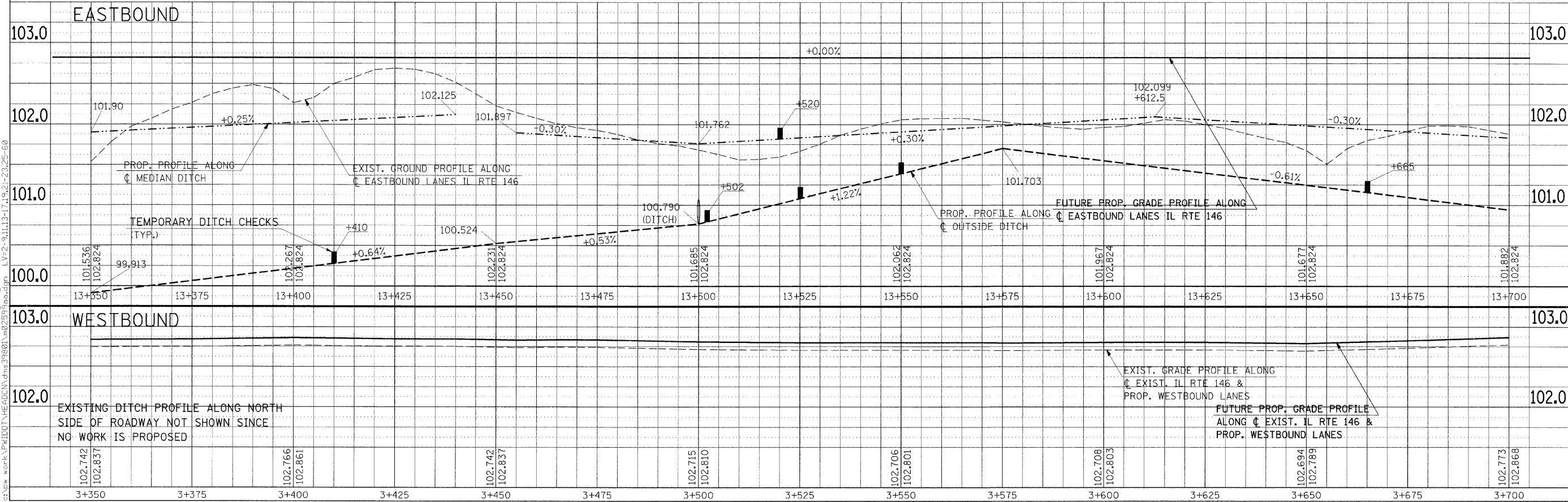
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	54
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

NOTE: CONSTRUCTION LIMITS ON NORTH SIDE HAVE BEEN OMITTED FOR CLARITY.

FINAL SURVEY	BY	DATE
SURVEY PLOTTED		
NOTE BOOK		
TEMP. AREAS CHECKED		
NO.		



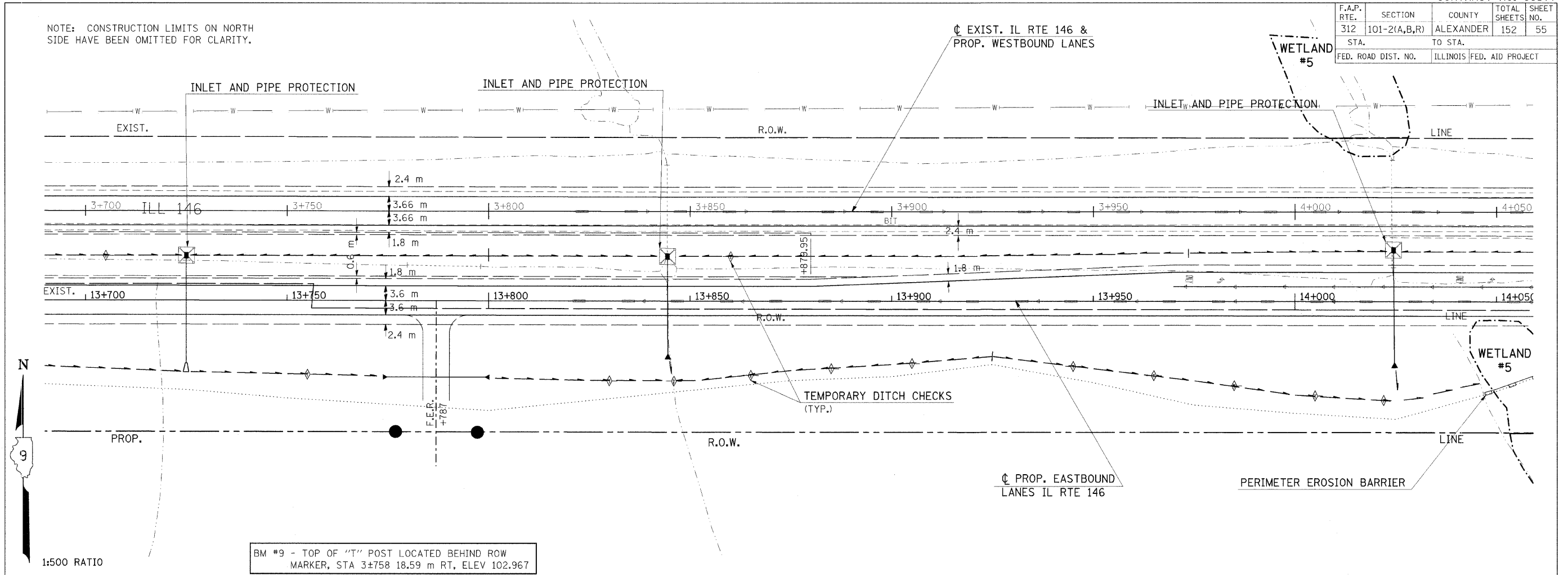
BM #8 - MOST SOUTH FLANGE BOLT OF FIRE HYDRANT,
STA 3+467 22.55 m LT, ELEV 103.282



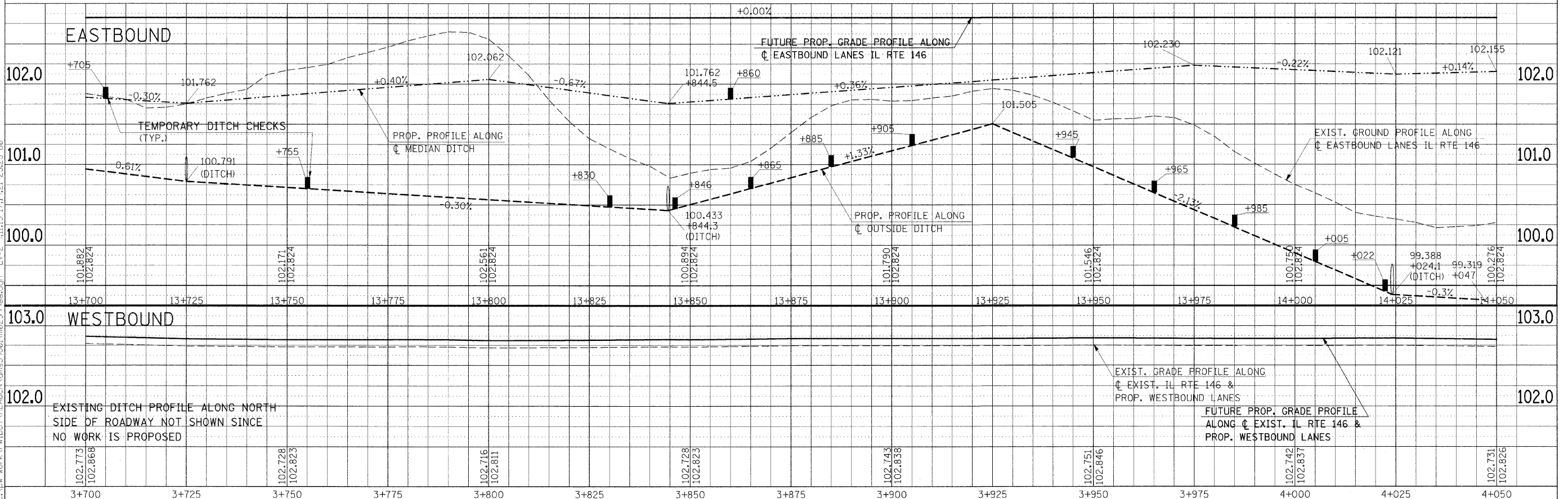
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	55
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

NOTE: CONSTRUCTION LIMITS ON NORTH SIDE HAVE BEEN OMITTED FOR CLARITY.



BM #9 - TOP OF "T" POST LOCATED BEHIND ROW MARKER, STA 3+758 18.59 m RT, ELEV 102.967



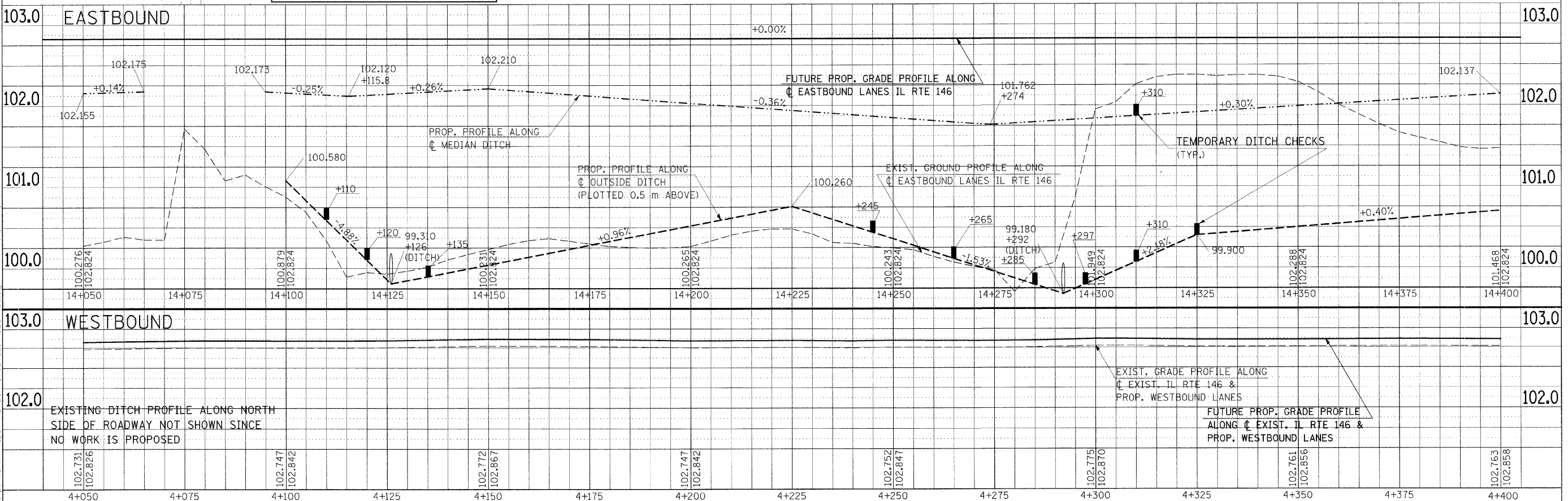
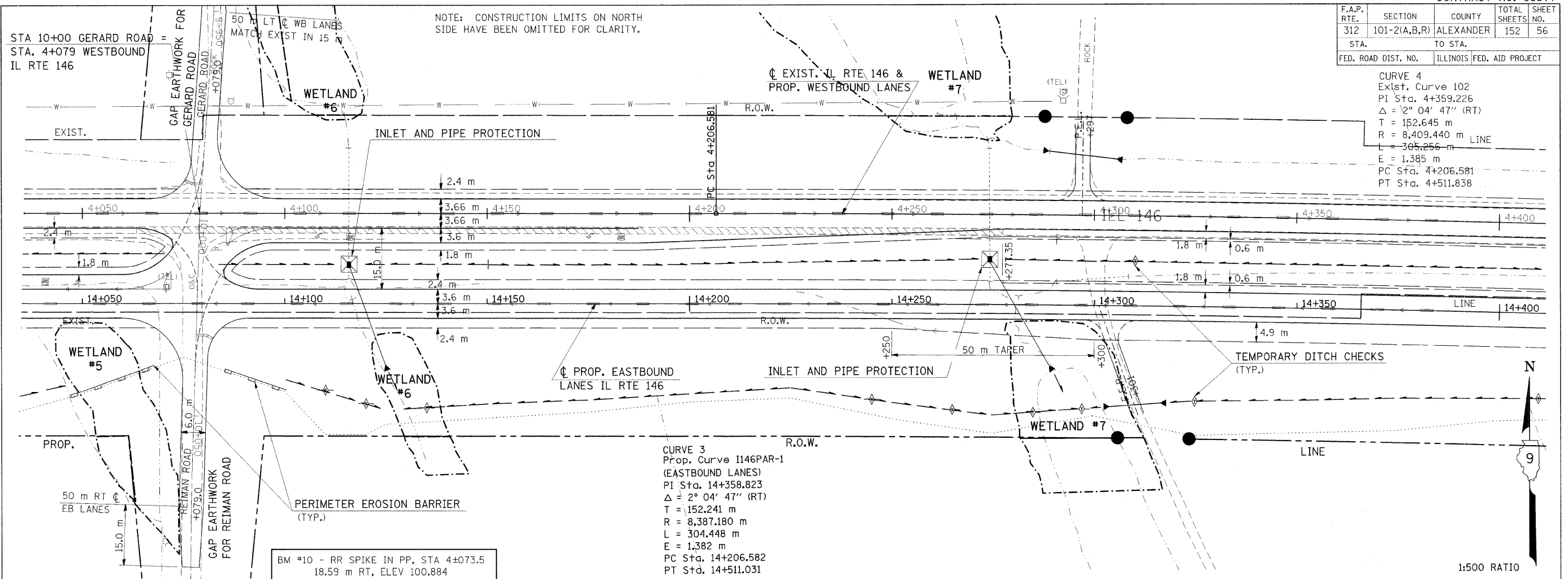
BY	DATE

Final Surveyed, Plotted, Note Book, Template, Areas Checked, No.

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	56
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CURVE 4
 Exist. Curve 102
 PI Sta. 4+359.226
 $\Delta = 2^\circ 04' 47''$ (RT)
 T = 152.645 m
 R = 8,409.440 m
 L = 305.256 m
 E = 1.385 m
 PC Sta. 4+206.581
 PT Sta. 4+511.838



BY	DATE

FINAL SURVEY PLOTTED
 NOTE BOOK TEMPLATE
 AREAS CHECKED
 INC.

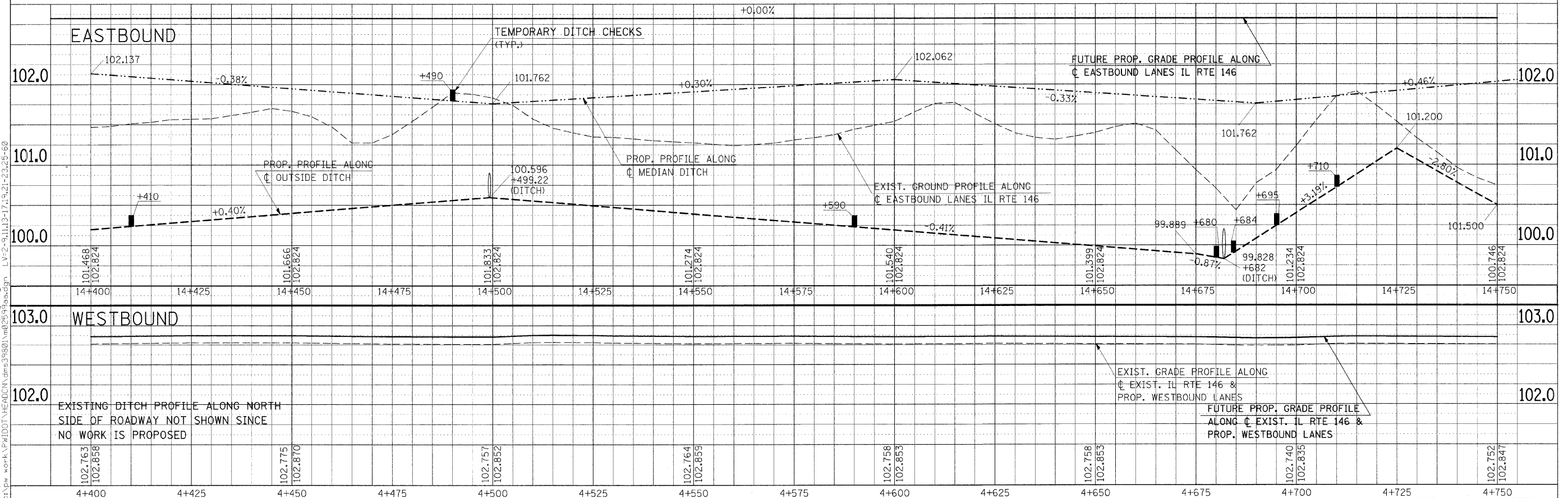
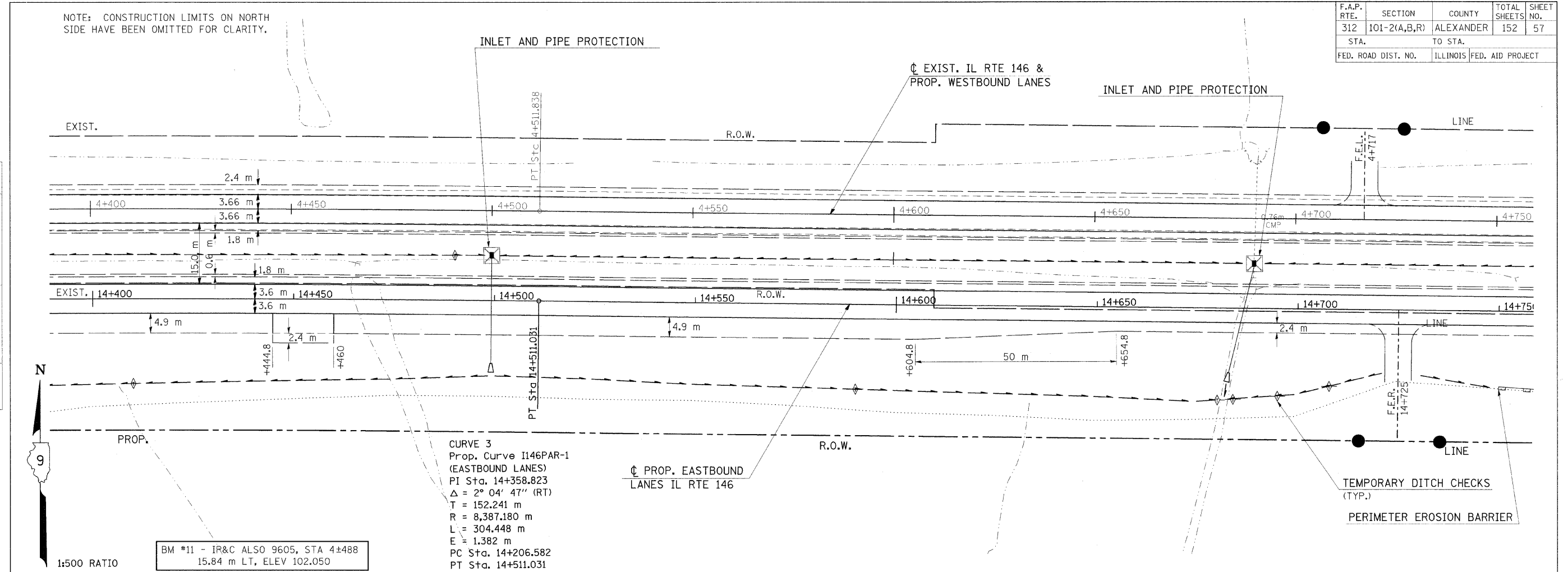
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 L:\1-19-21\24-63
 L:\1-19-21\24-63
 L:\1-19-21\24-63

TEMPORARY EROSION CONTROL PLAN - STA 4+050 TO STA 4+400

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	57
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

NOTE: CONSTRUCTION LIMITS ON NORTH SIDE HAVE BEEN OMITTED FOR CLARITY.

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK TEMPLATE		
AREAS CHECKED		
NO.		



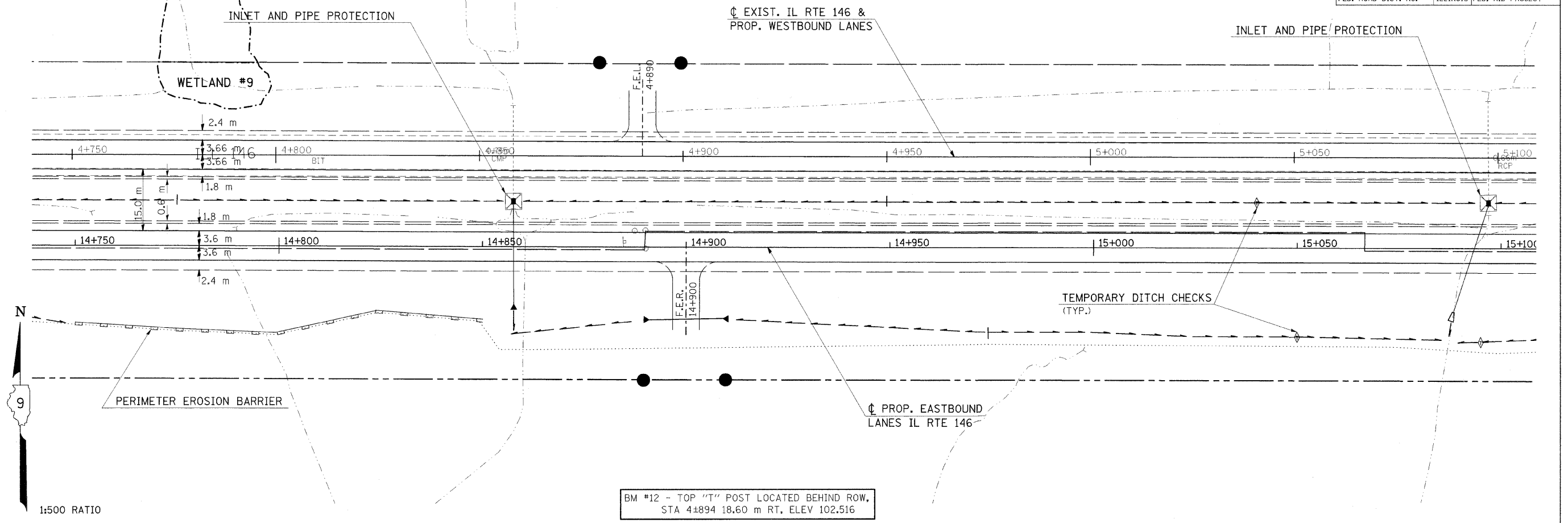
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TEMPORARY EROSION CONTROL PLAN - STA 4+400 TO STA 4+750

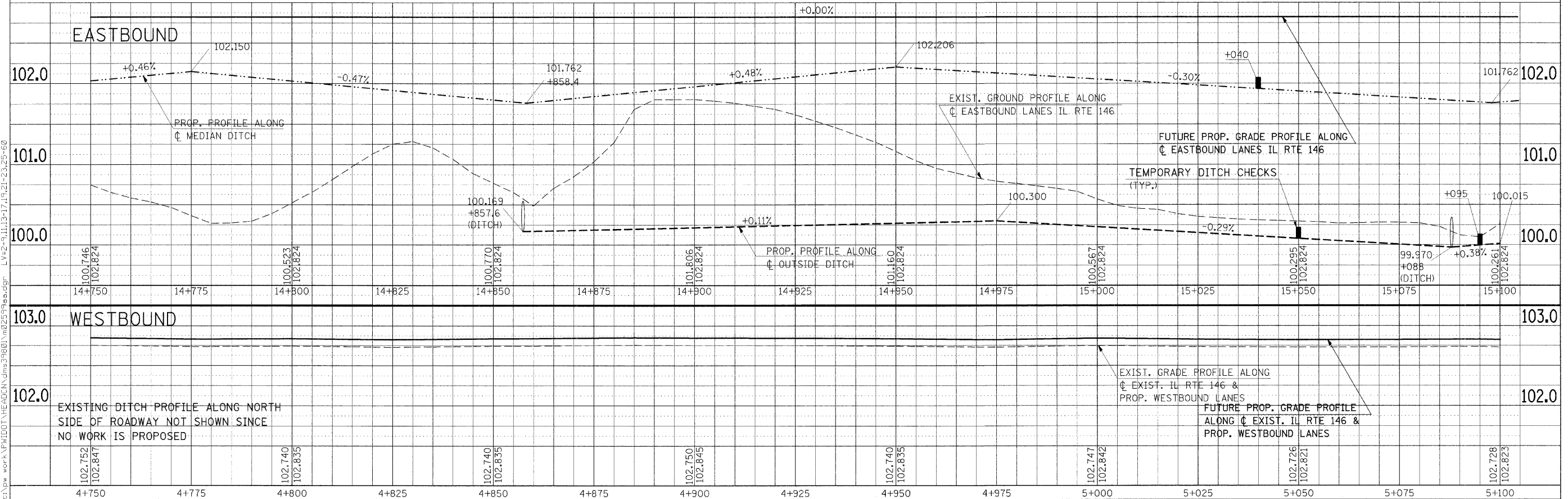
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	58
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS		FED. AID PROJECT

NOTE: CONSTRUCTION LIMITS ON NORTH SIDE HAVE BEEN OMITTED FOR CLARITY.

DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
NO.	
AREAS CHECKED	



BM #12 - TOP "T" POST LOCATED BEHIND ROW, STA 4+894 18.60 m RT, ELEV 102.516

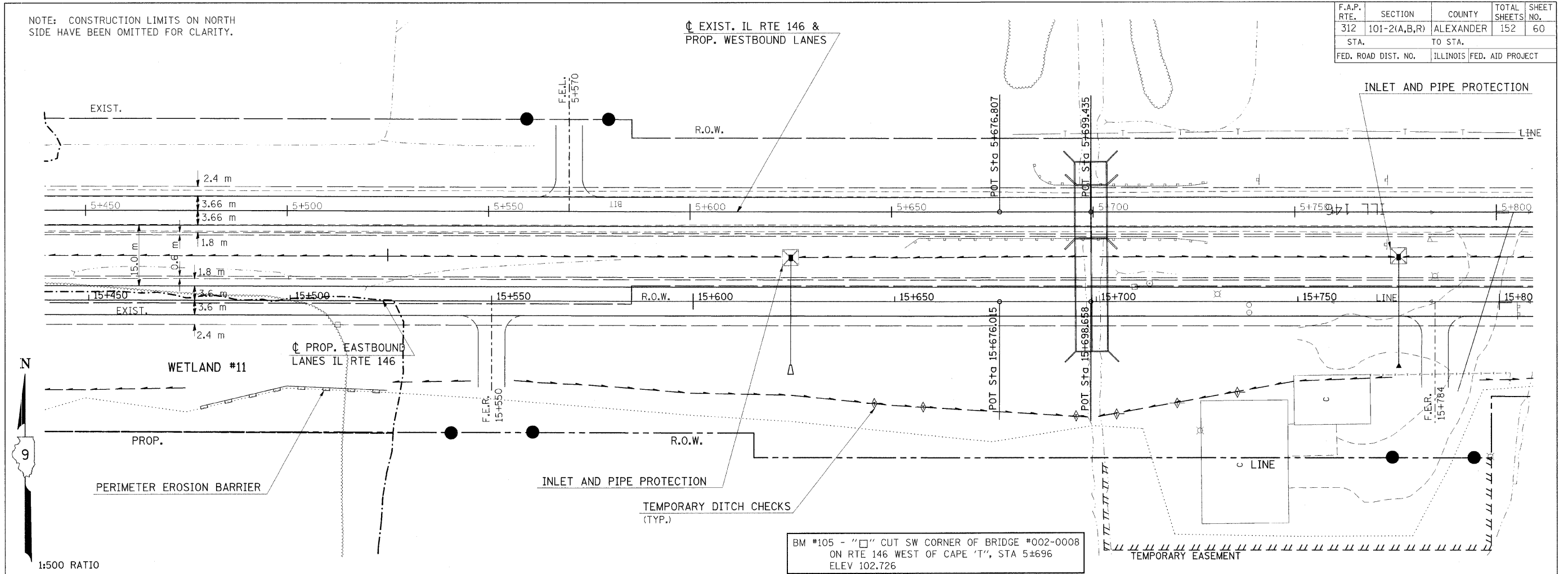


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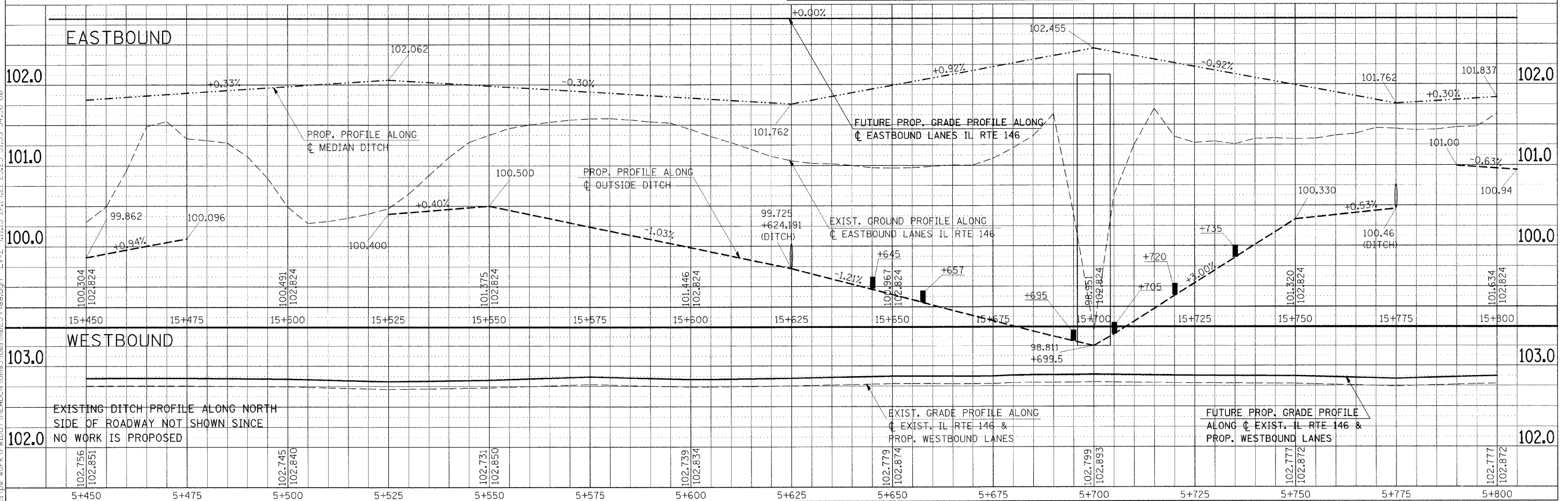
TEMPORARY EROSION CONTROL PLAN - STA 4+750 TO STA 5+100

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	60
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

NOTE: CONSTRUCTION LIMITS ON NORTH SIDE HAVE BEEN OMITTED FOR CLARITY.



FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
NOTE BOOK		
AREAS CHECKED		
NO.		

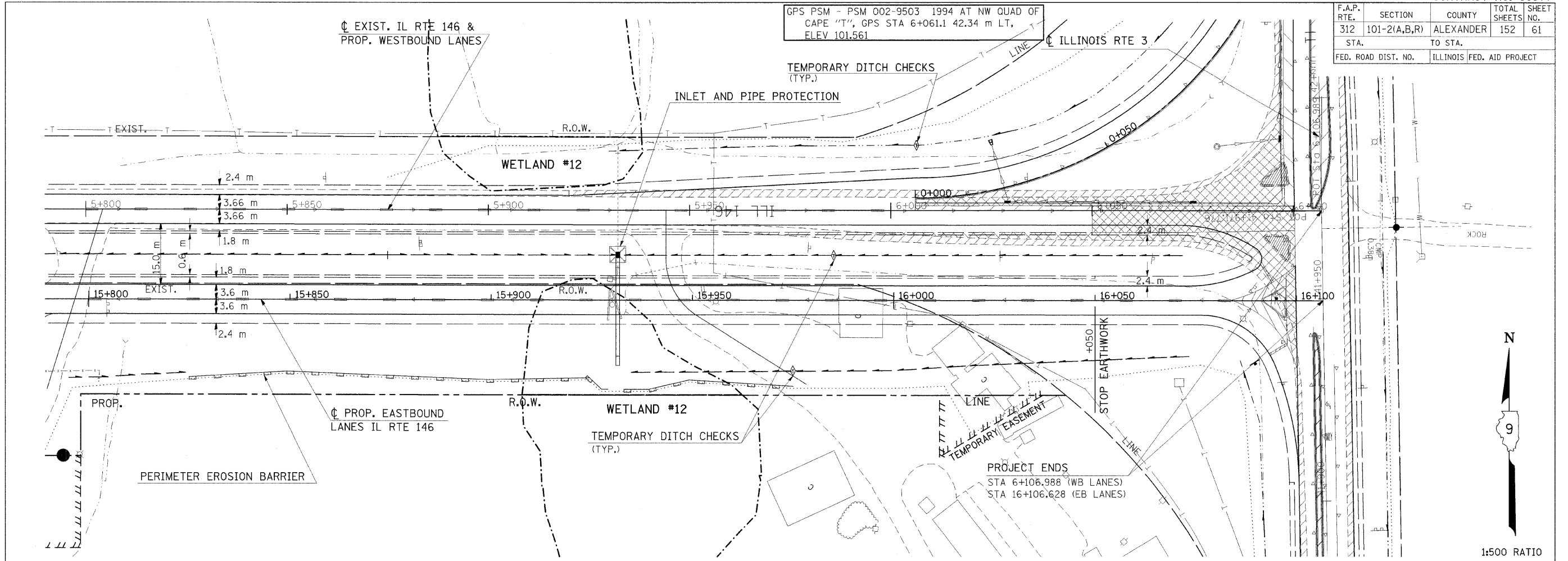


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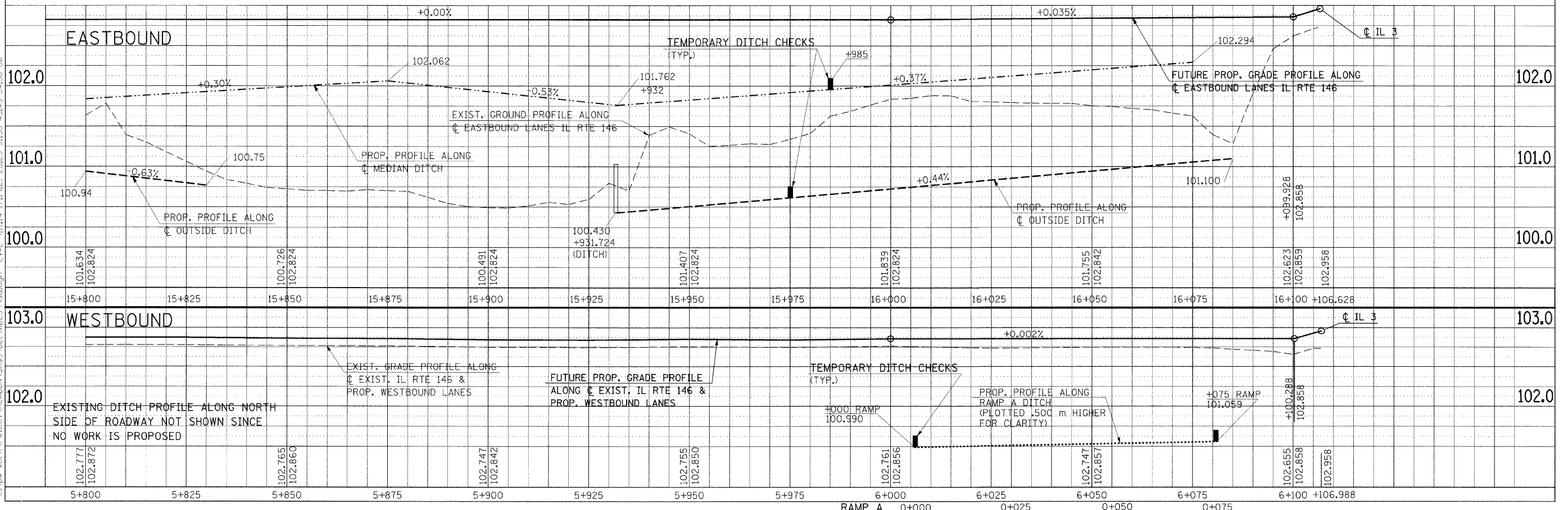
TEMPORARY EROSION CONTROL PLAN - STA 5+450 TO STA 5+800

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	61
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

GPS PSM - PSM 002-9503 1994 AT NW QUAD OF CAPE "T", GPS STA 6+061.1 42.34 m LT, ELEV 101.561



DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
TEMP. AREAS	CHECKED
NO.	

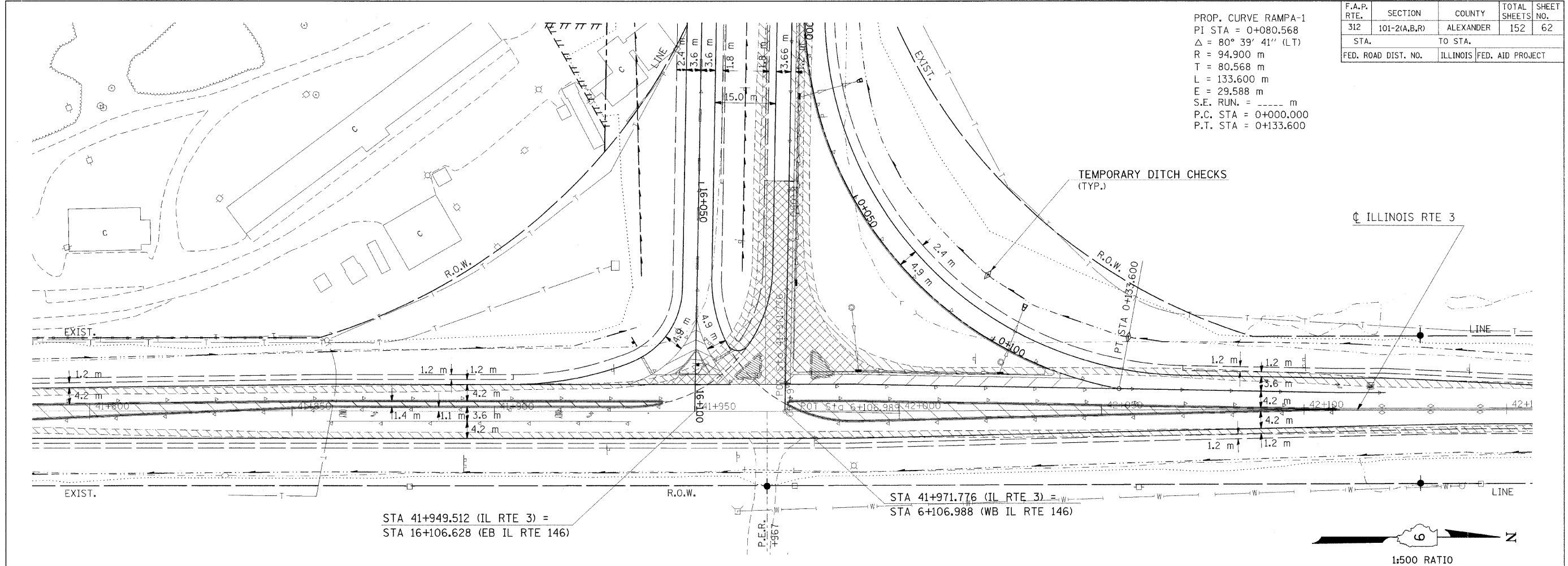


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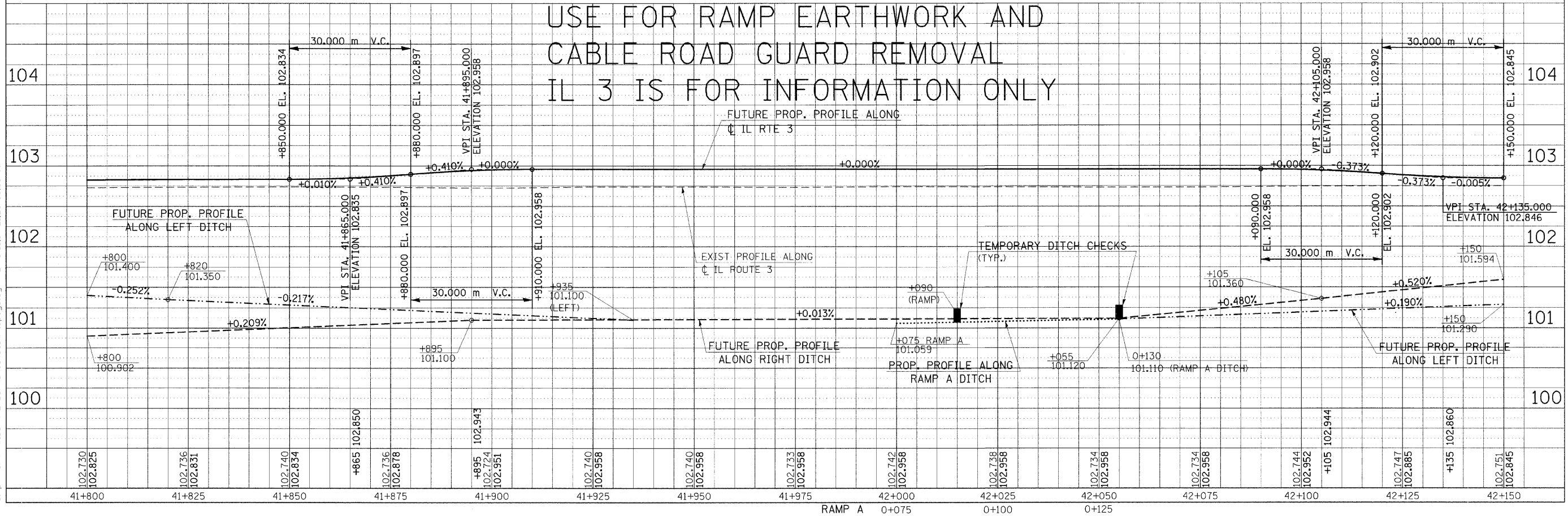
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	62
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

PROP. CURVE RAMP A-1
 PI STA = 0+080,568
 $\Delta = 80^\circ 39' 41''$ (LT)
 R = 94,900 m
 T = 80,568 m
 L = 133,600 m
 E = 29,588 m
 S.E. RUN. = ----- m
 P.C. STA = 0+000,000
 P.T. STA = 0+133,600

FINAL SURVEY	BY	DATE
SURVEYED		
FLOTTED		
NOTE BOOK		
TEMPLATE		
AREAS		
CHECKED		
NO.		



USE FOR RAMP EARTHWORK AND
 CABLE ROAD GUARD REMOVAL
 IL 3 IS FOR INFORMATION ONLY



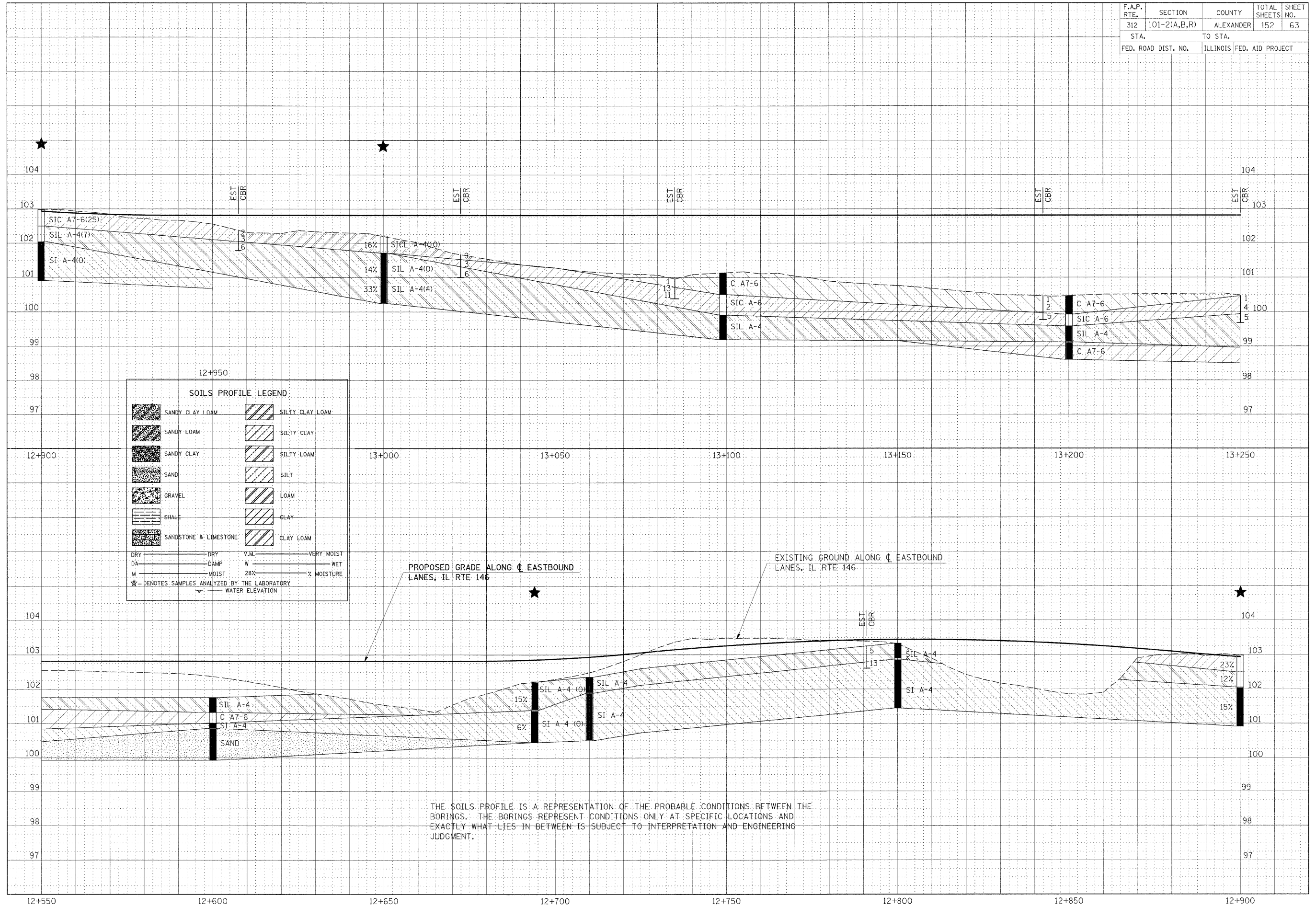
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	63
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DATE	BY	DATE	BY
DATE	BY	DATE	BY
DATE	BY	DATE	BY

DATE	BY	DATE	BY
DATE	BY	DATE	BY
DATE	BY	DATE	BY

Friday, October 24, 2008 @ 10:48 PM
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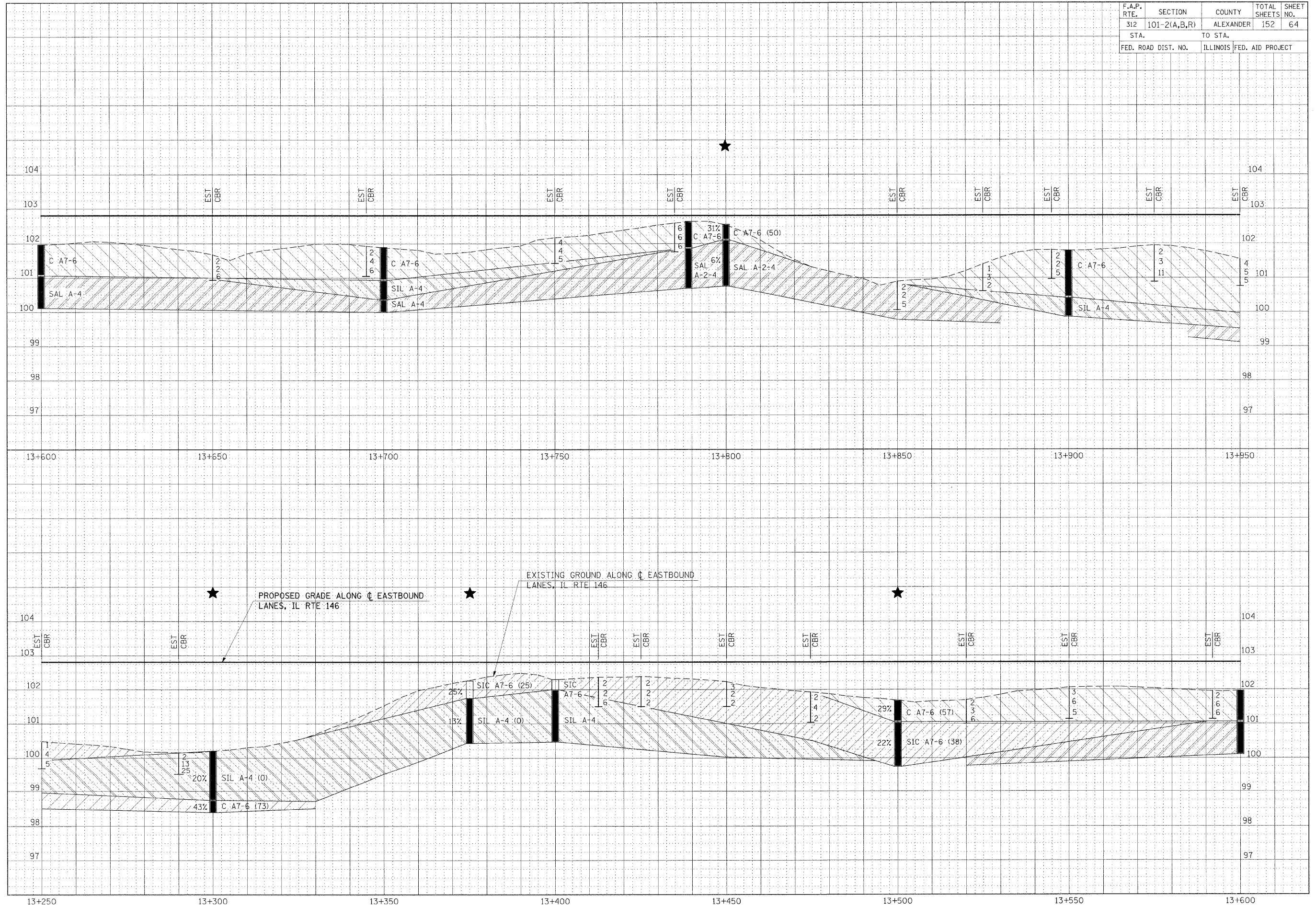
SOILS PROFILE - STA 12+550 TO STA 13+250

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	64
STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

FINAL SURVEY	DATE
BY	
DATE	
BY	
DATE	
BY	
DATE	

ORIGINAL SURVEY	DATE
BY	
DATE	
BY	
DATE	
BY	
DATE	

Friday, October 24, 2008 8:11:17 PM
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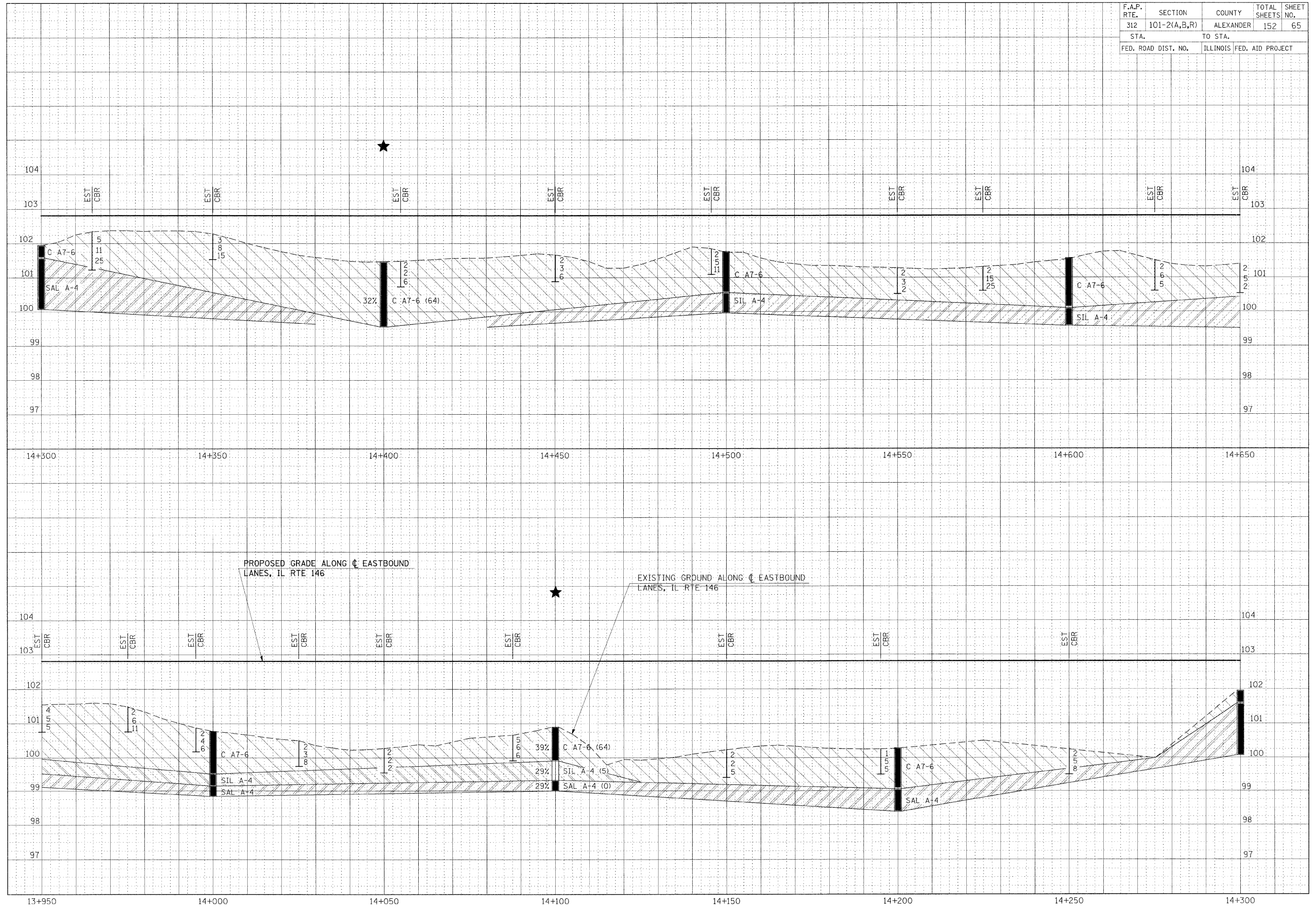
SOILS PROFILE - STA 13+250 TO STA 13+950

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	65
STA. TO STA.		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.				

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	AREAS CHECKED	

Friday, October 24, 2008 @ 12:33 PM
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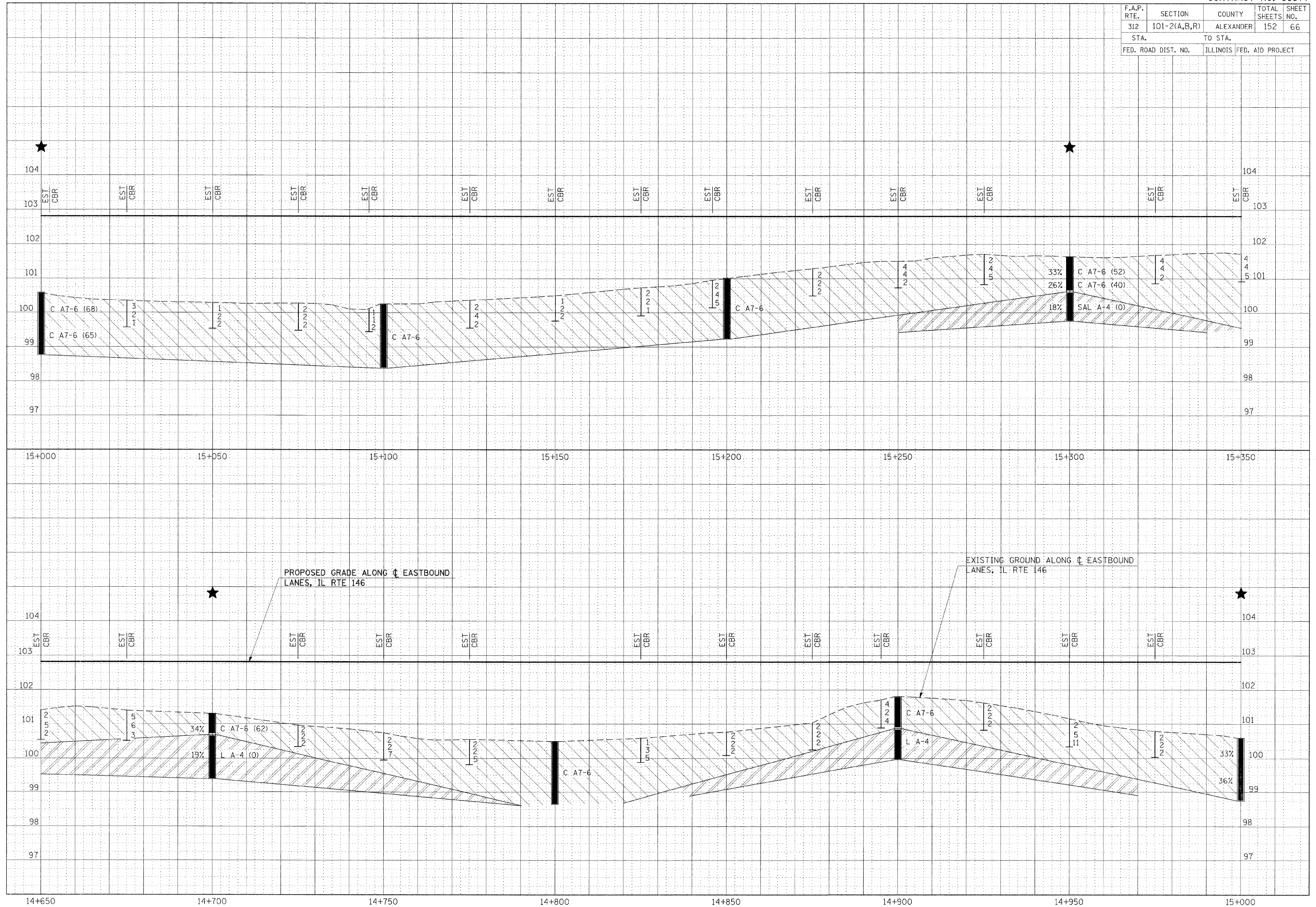
SOILS PROFILE - STA 13+950 TO STA 14+650

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	66
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

BY	DATE
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED

BY	DATE
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED

Friday, October 24, 2008 @ 10:44 PM
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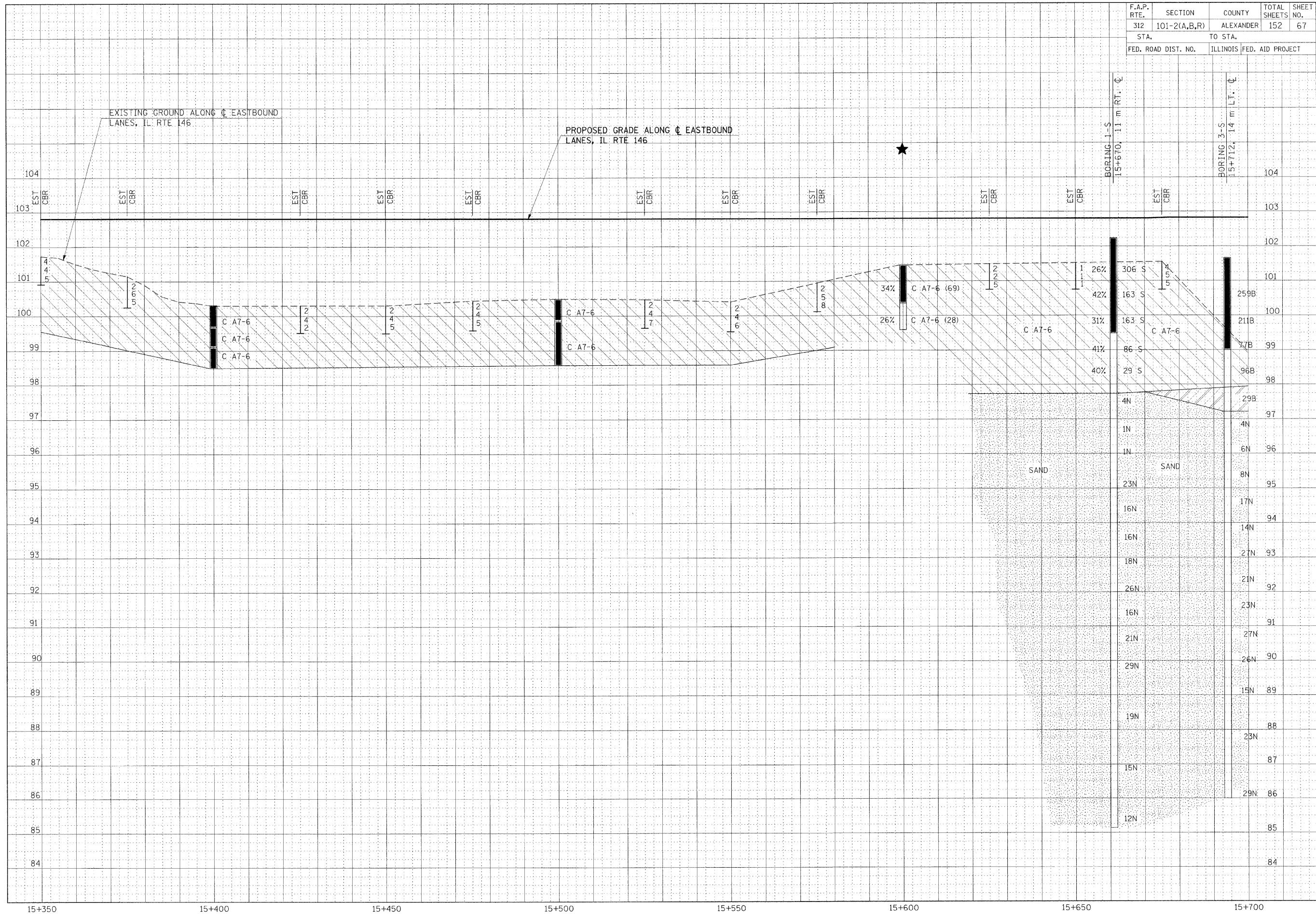
SOILS PROFILE - STA 14+650 TO STA 15+350

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	67
STA. TO STA.		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FINAL SURVEY	DATE
BY	
DATE	
BY	
DATE	
BY	
DATE	

ORIGINAL SURVEY	DATE
BY	
DATE	
BY	
DATE	
BY	
DATE	

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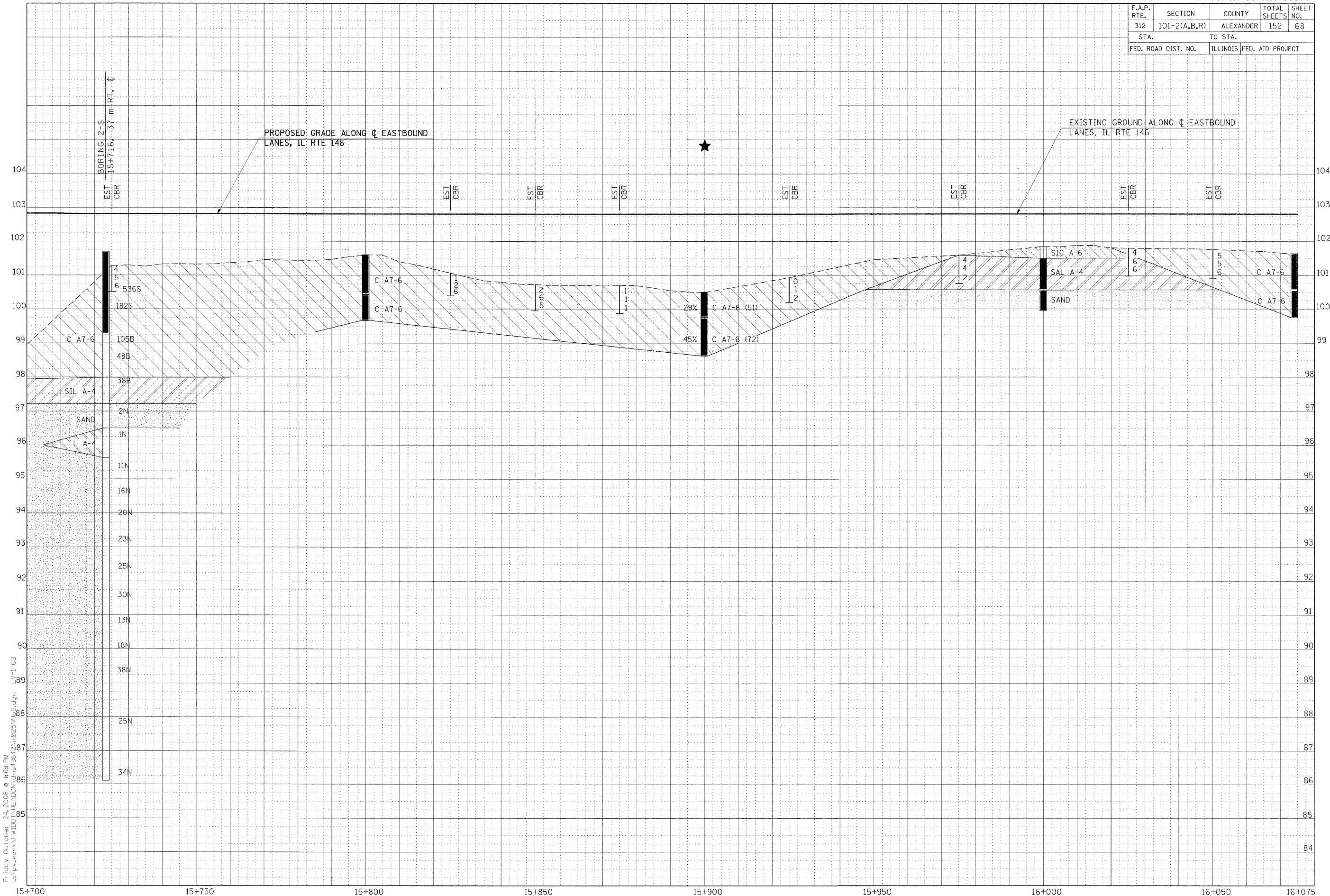
SOILS PROFILE - STA 15+350 TO STA 15+700

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	68
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID	PROJECT

BY	DATE

BY	DATE

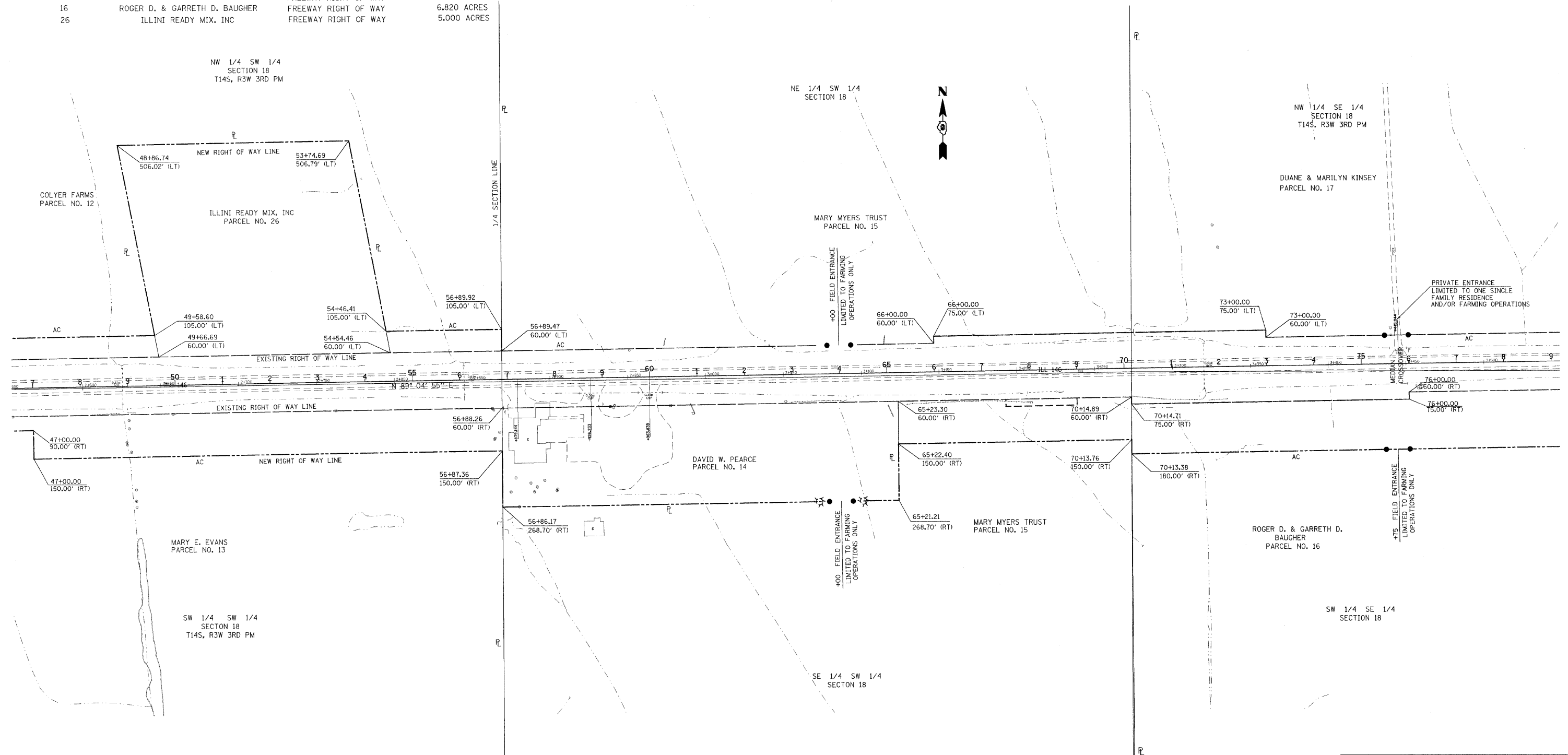
Friday, October 24, 2008 @ 11:01 PM
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 L:\1-63



SOILS PROFILE - STA 15+700 TO STA 16+075

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARCEL NO.	NAME	PURPOSE	ACREAGE
12	COLYER FARMS	FREEWAY RIGHT OF WAY	1.063 ACRES
12	COLYER FARMS	TEMPORARY EASEMENT	0.032 ACRES
13	MARY E. EVANS	FREEWAY RIGHT OF WAY	2.476 ACRES
13	MARY E. EVANS	TEMPORARY EASEMENT	0.031 ACRES
14	DAVID W. PEARCE	FREEWAY RIGHT OF WAY	4.000 ACRES
15	MARY MYERS TRUST	FREEWAY RIGHT OF WAY	1.015 ACRES
16	ROGER D. & GARRETH D. BAUGHER	FREEWAY RIGHT OF WAY	6.820 ACRES
26	ILLINI READY MIX. INC	FREEWAY RIGHT OF WAY	5.000 ACRES



RIGHT OF WAY PLANS

ROUTE FAP 312 (IL 146)
SECTION 101-1
PROJECT NON FA
COUNTY ALEXANDER
JOB NO. R-99-001-99
STA 47+00 TO STA 79+00
SCALE 1" = 100'

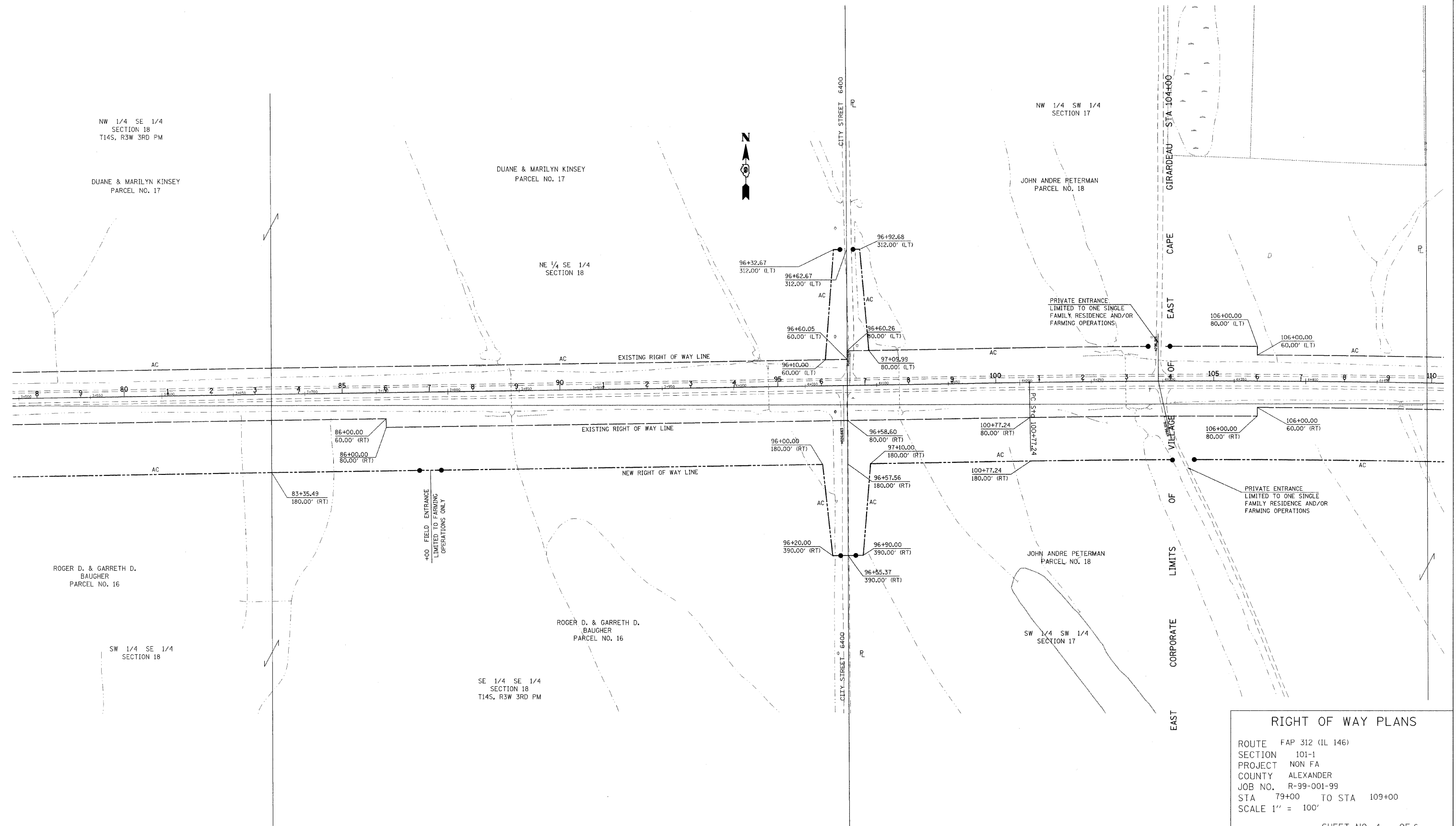
SHEET NO. 3 OF 6

DATE TIME
DRAWN BY
CHECKED BY
APP. 3/13/99
REF. 3/13/99
REF. 3/13/99

ENGLISH

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARCEL NO.	NAME	PURPOSE	ACREAGE
16	ROGER D. & GARRETH D. BAUGHER	SEE SHEET NO. 3	
17	DUANE & MARILYN KINSEY	FREEWAY RIGHT OF WAY	0.232 ACRES
18	JOHN ANDRE PETERMAN	FREEWAY RIGHT OF WAY	7.001 ACRES

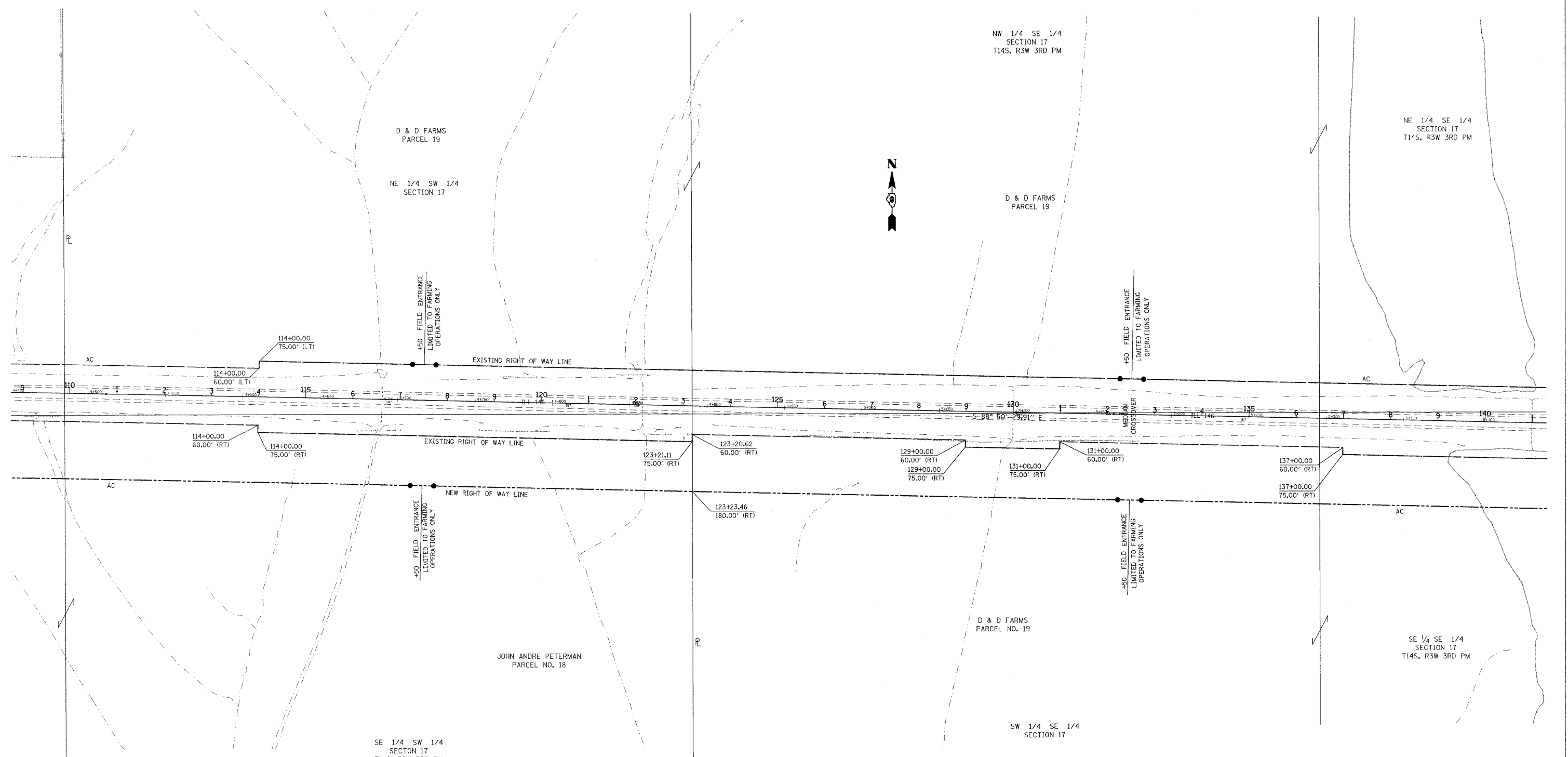


RIGHT OF WAY PLANS
 ROUTE FAP 312 (IL 146)
 SECTION 101-1
 PROJECT NON FA
 COUNTY ALEXANDER
 JOB NO. R-99-001-99
 STA 79+00 TO STA 109+00
 SCALE 1" = 100'
 SHEET NO. 4 OF 6

DATE TIME
 DRAWN BY
 REF 01/32
 REF 01/11
 REF
 ENGLISH

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARCEL NO.	NAME	PURPOSE	ACREAGE
18	JOHN ANDRE PETERMAN D & D FARMS	SEE SHEET NO. 4 FREEWAY RIGHT OF WAY	7.130 ACRES



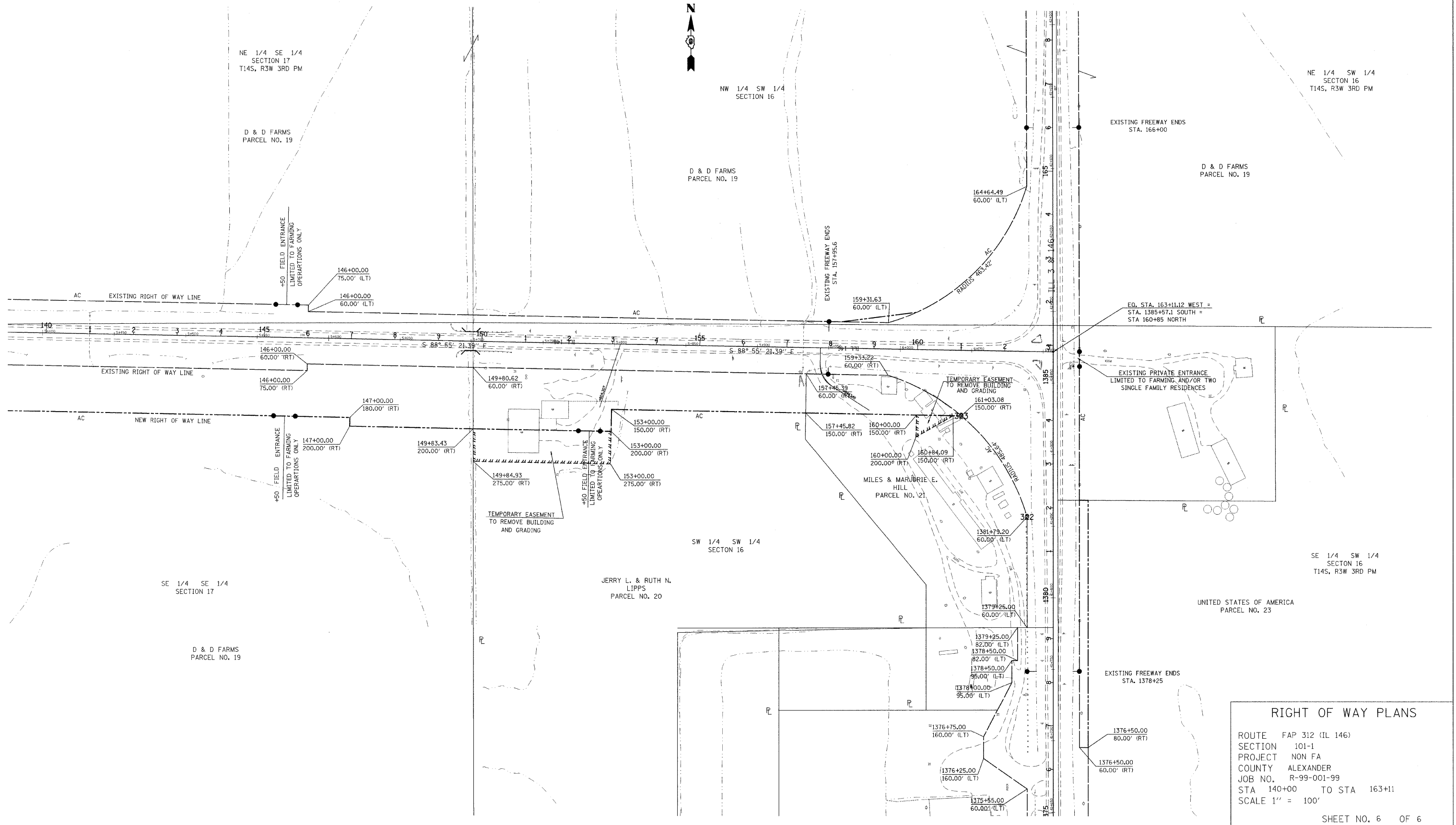
RIGHT OF WAY PLANS

ROUTE FAP 312 (IL 146)
 SECTION 101-1
 PROJECT NON FA
 COUNTY ALEXANDER
 JOB NO. R-99-001-99
 STA 109+00 TO STA 140+00
 SCALE 1" = 100'

SHEET NO. 5 OF 6

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARCEL NO.	NAME	PURPOSE	ACREAGE
19	D & D FARMS	SEE SHEET NO. 5	
20	JERRY L. & RUTH N. LIPPS	FREEWAY RIGHT OF WAY	1.943 ACRES
20	JERRY L. & RUTH N. LIPPS	TEMPORARY EASEMENT	0.544 ACRES
21	MILES & MARJORIE E. HILL	FREEWAY RIGHT OF WAY	0.591 ACRES
21	MILES & MARJORIE E. HILL	TEMPORARY EASEMENT	0.048 ACRES



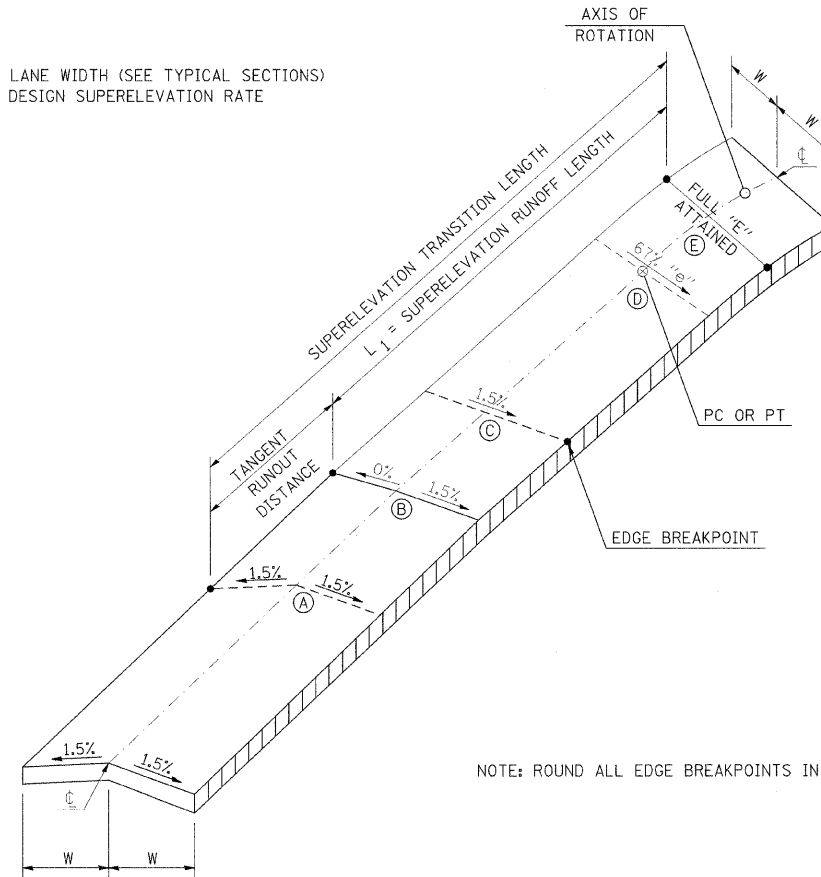
RIGHT OF WAY PLANS

ROUTE FAP 312 (IL 146)
SECTION 101-1
PROJECT NON FA
COUNTY ALEXANDER
JOB NO. R-99-001-99
STA 140+00 TO STA 163+11
SCALE 1" = 100'

SHEET NO. 6 OF 6

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	73
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

W = LANE WIDTH (SEE TYPICAL SECTIONS)
E = DESIGN SUPERELEVATION RATE



ATTAINING SUPERELEVATION

ALIGNMENT	CURVE NAME FULL SUPER. RATE	STA. (A)		STA. (B)		STA. (C)		STA. (D)		STA. (E)	
		LT.	RT.	LT.	RT.	LT.	RT.	LT.	RT.	LT.	RT.
IL 146	CURVE 1										
	CURVE 2	12+688.75	12+702.75	12+716.15	12+729.551	12+742.75					
		-1.5%	-1.5%	-1.5%	0.0%	-1.5%	+1.5%	-3.0%	+3.0%	-4.5%	+4.5%
	CURVE 3			NO SUPERELEVATION REQUIRED							
	CURVE 4			NO SUPERELEVATION REQUIRED							
DETOUR ROAD	CURVE 5	0.000			0+070.3						
		-1.5%	-1.5%		+1.5%	-1.5%					
	CURVE 6					0+085.3	0+100.3				
						0.0%	0.0%	-1.5%	+1.5%		
	CURVE 7										
	CURVE 8					0+318.63	0+333.63				
						0.0%	0.0%	+1.5%	-1.5%		

REMOVING SUPERELEVATION

ALIGNMENT	CURVE NAME FULL SUPER. RATE	STA. (E)		STA. (D)		STA. (C)		STA. (B)		STA. (A)	
		LT.	RT.	LT.	RT.	LT.	RT.	LT.	RT.	LT.	RT.
IL 146	CURVE 1			12+635.55	12+641.551	12+653.55	12+667.55				
				+1.5%	-2.0%	+1.5%	-1.5%	0.0%	-1.5%	-1.5%	-1.5%
	CURVE 2	12+818.50	12+831.702	12+844.6	12+858.50	12+872.50					
		-4.5%	+4.5%	-3.0%	+3.0%	-1.5%	+1.5%	-1.5%	0.0%	-1.5%	-1.5%
	CURVE 3			NO SUPERELEVATION REQUIRED							
	CURVE 4			NO SUPERELEVATION REQUIRED							
DETOUR ROAD	CURVE 5	0+070.3	0+085.3								
		+1.5%	-1.5%	0.0%	0.0%						
	CURVE 6										
	CURVE 7	0+333.63	0+318.63								
		-1.5%	+1.5%	0.0%	0.0%						
	CURVE 8			0+333.63		0+403.93					
				+1.5%	-1.5%					-1.5%	-1.5%

PLOT DATE = 10/24/2008
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 USER NAME = headon

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUPERELEVATION TRANSITION DETAILS

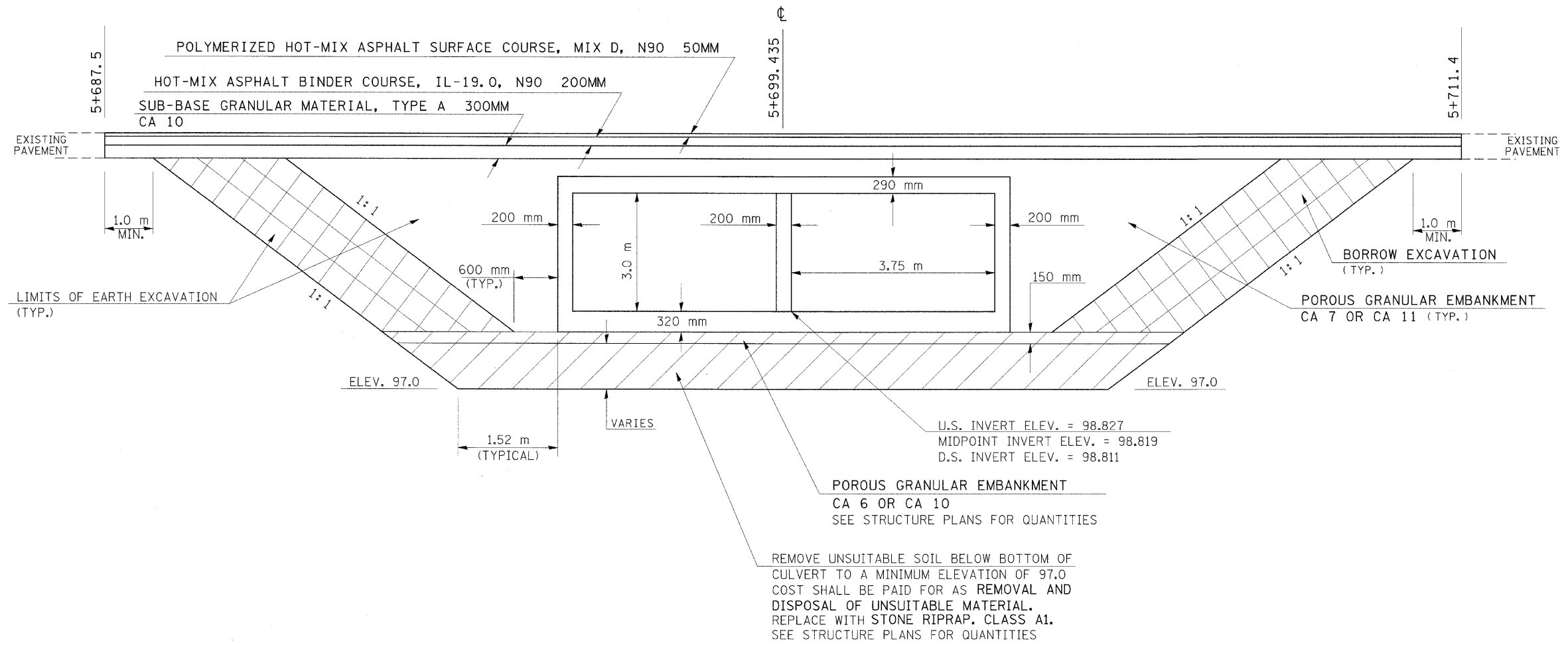
SCALE: VERT. NONE
HORIZ.

DATE _____ DRAWN BY CNH
CHECKED BY _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	74
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

BOX CULVERT DETAIL

(SN 002-2002)



REMOVE UNSUITABLE SOIL BELOW BOTTOM OF CULVERT TO A MINIMUM ELEVATION OF 97.0 COST SHALL BE PAID FOR AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL. REPLACE WITH STONE RIPRAP, CLASS A1. SEE STRUCTURE PLANS FOR QUANTITIES

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BOX CULVERT DETAIL
SN 002-2002
STA 5+699.435

SCALE: VERT. NONE
 HORIZ. DATE
 DRAWN BY CNH
 CHECKED BY

PLOT DATE = 10/30/2008
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	75
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



PROPOSED DRAINAGE CONTROL STRUCTURES



- PROPOSED FORESTED WETLAND
- PROPOSED EMERGENT WETLAND
- EXISTING CONTOUR
- PROPOSED CONTOUR

DRAWN NOT TO SCALE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
WETLAND MITIGATION PLAN

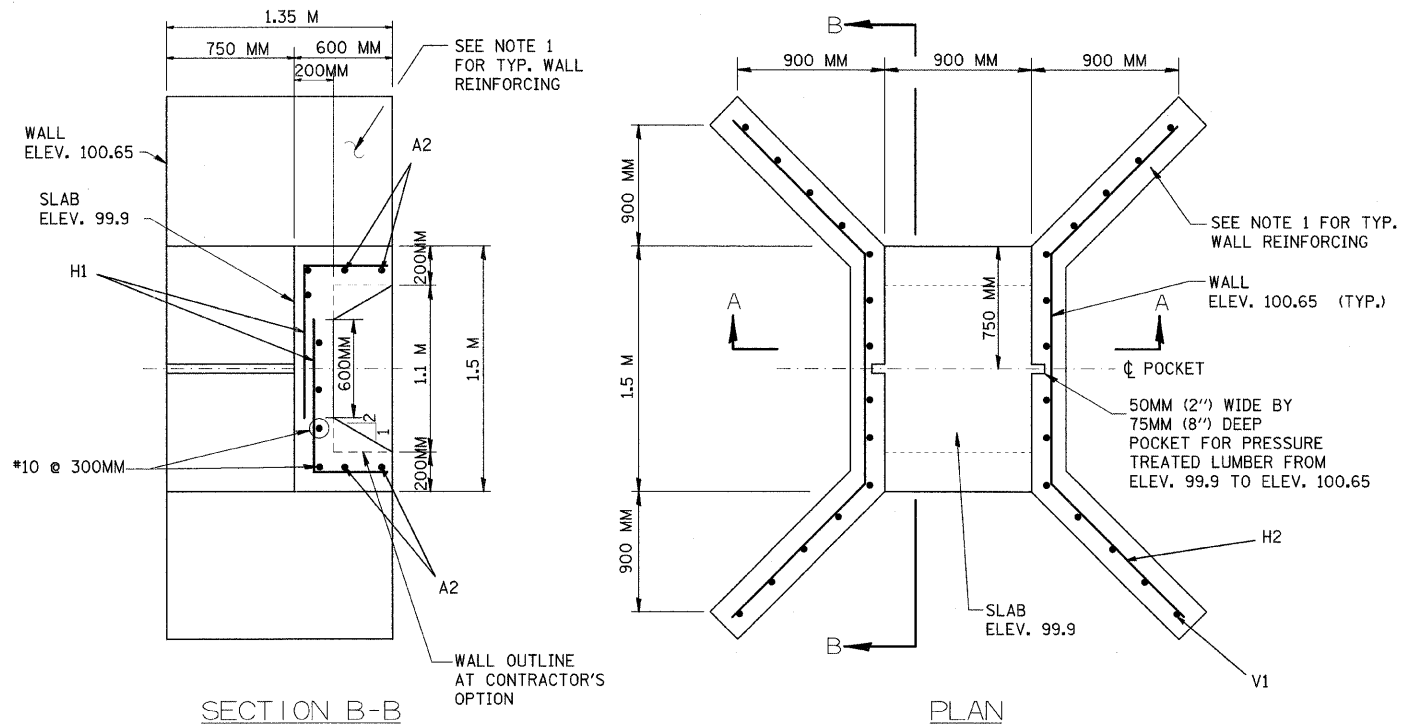
SCALE: VERT. _____
HORIZ. _____
DATE _____

DRAWN BY JCK
CHECKED BY _____

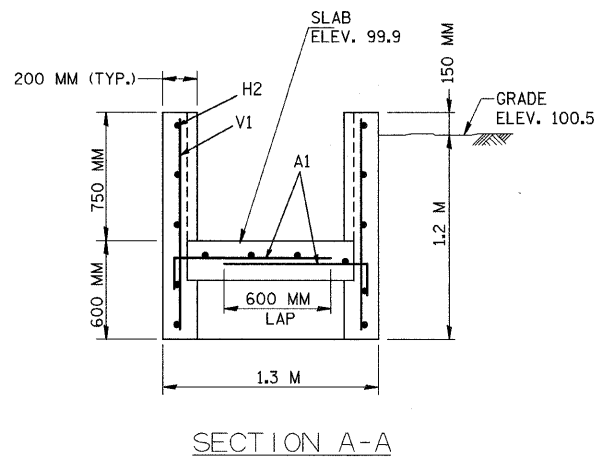
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

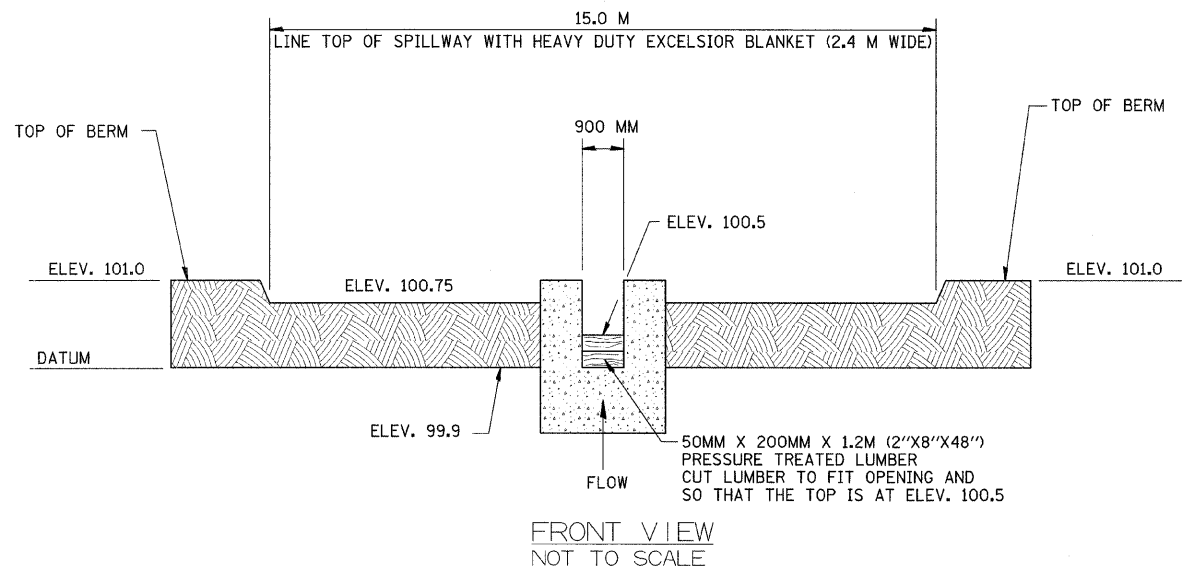
DRAINAGE CONTROL STRUCTURE



- NOTES:
1. TYPICAL WALL REINFORCING VERTICAL BARS #10 @ 300MM HORIZONTAL BARS #15 @ 300MM.
 2. PLACE WALL AND SLAB REINFORCING IN CENTER OF WALL.
 3. ALL EXPOSED EDGES OF WALLS SHALL BE CHAMFERED 19MM (3/4").

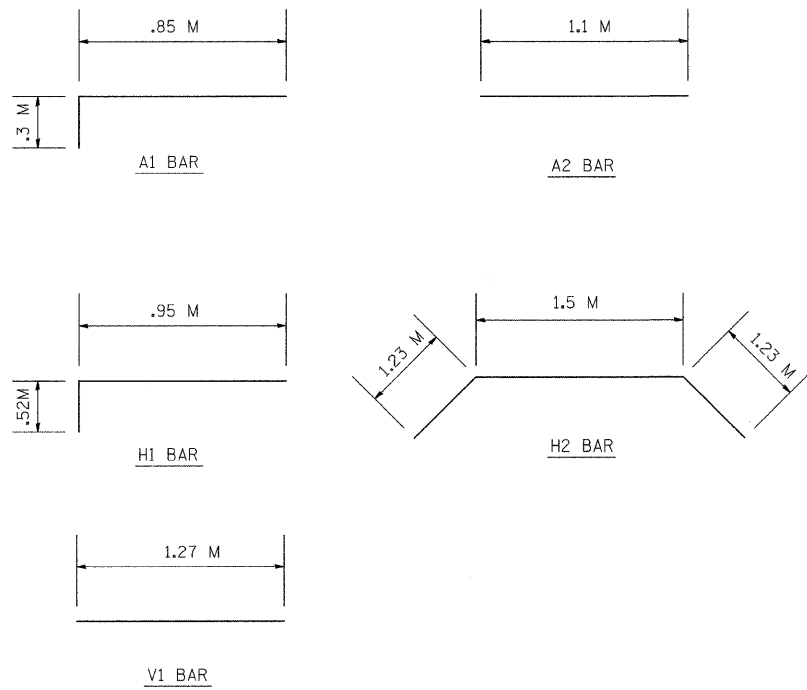
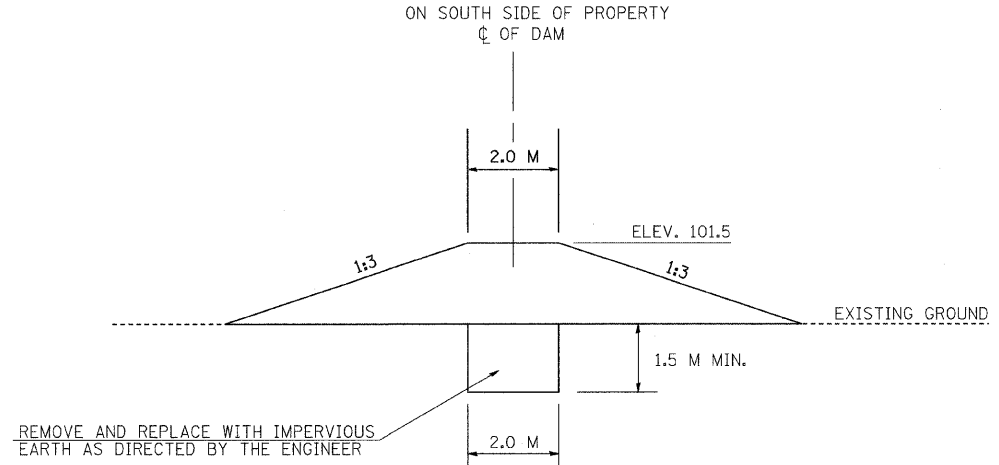


SECTION A-A



FRONT VIEW NOT TO SCALE

DETAIL OF EARTH DAM



BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH (M)	SHAPE
A1	12	#10	1.15	┌───┐
A2	4	#10	1.1	┌───┐
H1	8	#10	1.47	┌───┐
H2	10	#15	3.96	┌───┐
V1	28	#10	1.27	┌───┐
CLASS SI CONCRETE, SPECIAL REINFORCEMENT BARS			CUM	5.1
50MMX200MMX1.2M (2''X8''X48'')			KG	91
PRESSURE TREATED LUMBER			EACH	3

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
WETLAND DETAILS

SCALE: VERT. HORIZ. DATE

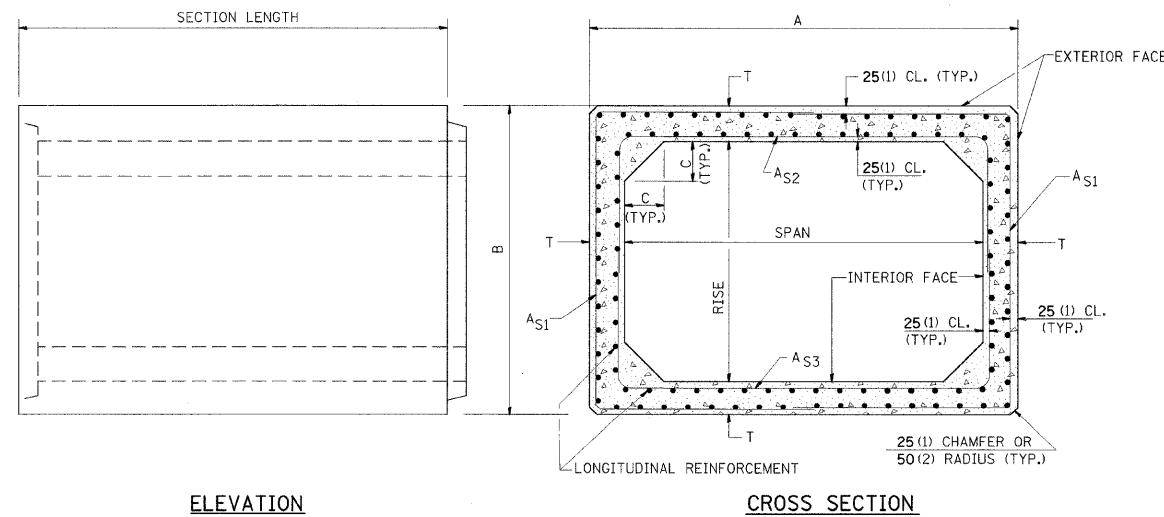
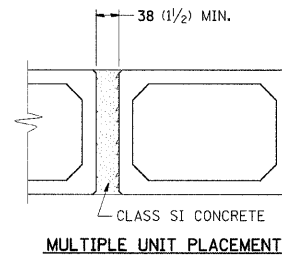
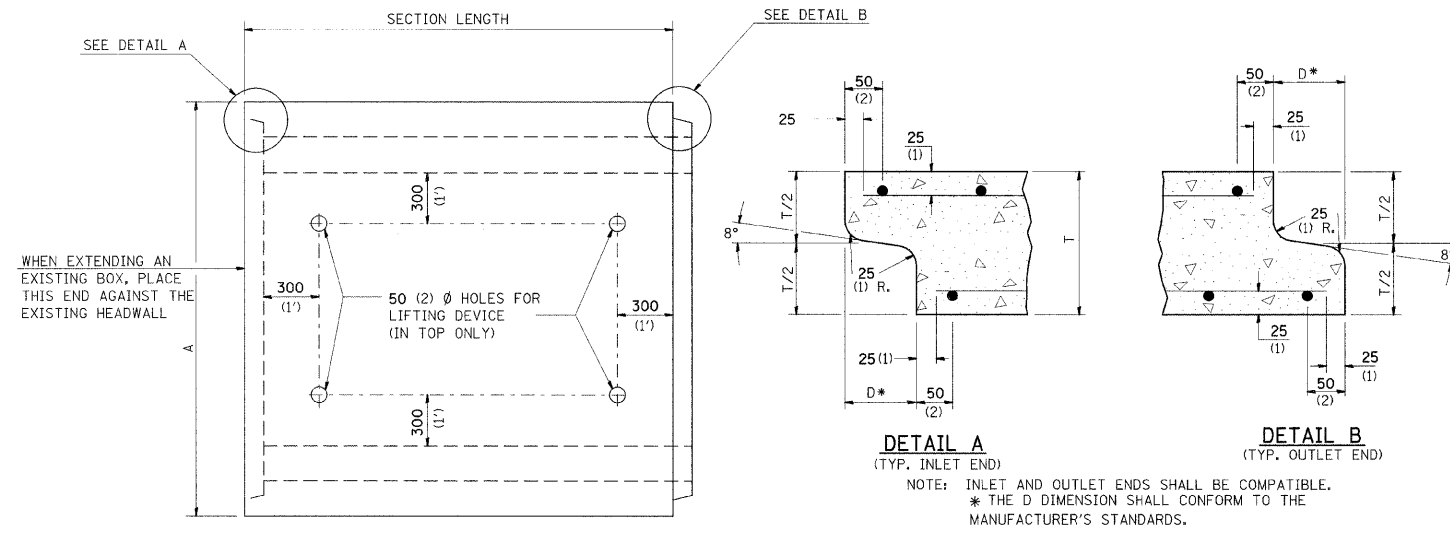
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 USER NAME = kranzjc

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	78
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

DETAIL OF PRECAST CONCRETE BOX CULVERT SECTION

(WITH COVER 600 (2 FEET) OR GREATER -
AASHTO DESIGNATION M259)
DESIGN LOADING: HS-20-44



GENERAL NOTES

SHOP PLANS FOR THE REINFORCEMENT SHALL BE SUBMITTED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 504.04 OF THE STANDARD SPECIFICATIONS.

MINIMUM CONCRETE STRENGTH SHALL BE 34,500 kPa (5000 PSI) AFTER 28 DAYS.

THE JOINTS OF THE PRECAST BOX SECTIONS SHALL BE SEALED WITH MASTIC IN ACCORDANCE WITH ARTICLE 1055.01 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

LIFTING HOLES SHALL BE FILLED WITH CONCRETE PLUGS AND MASTIC AFTER THE BOX SECTIONS ARE IN PLACE.

THE TERMS AS1, AS2, & AS3 DENOTE THE REQUIRED STEEL AREAS FOR REINFORCEMENT AS SPECIFIED IN AASHTO M259. REINFORCEMENT SHALL BE WELDED WIRE FABRIC CONFORMING TO AASHTO M55-81.

DRAINAGE OPENINGS SHALL BE PROVIDED IN ACCORDANCE WITH ARTICLE 503.11 OF THE STANDARD SPECIFICATIONS. LOCATION AND SPACING OF THE OPENINGS SHALL BE SHOWN ON THE SHOP DRAWINGS.

DIMENSIONS

SPAN X RISE	T (IN.)	A (FT.-IN.)	B (FT.-IN.)	C (IN.)
600 x 600 (2' X 2')	100 (4)	800 (2-8)	800 (2-8)	100 (4)
900 x 600 (3' X 2')	100 (4)	1.1 m (3-8)	800 (2-8)	100 (4)
900 x 900 (3' X 3')	100 (4)	1.1 m (3-8)	1.1 m (3-8)	100 (4)
1.2 m x 600 (4' X 2')	125 (5)	1.45 m (4-10)	850 (2-10)	125 (5)
1.2 m x 900 (4' X 3')	125 (5)	1.45 m (4-10)	1.15 m (3-10)	125 (5)
1.2 m x 1.2 m (4' X 4')	125 (5)	1.45 m (4-10)	1.45 m (4-10)	125 (5)
1.5 m x 600 (5' X 2')	150 (6)	1.8 m (6-0)	900 (3-0)	150 (6)
1.5 m x 900 (5' X 3')	150 (6)	1.8 m (6-0)	1.2 m (4-0)	150 (6)
1.5 m x 1.2 m (5' X 4')	150 (6)	1.8 m (6-0)	1.5 m (5-0)	150 (6)
1.5 m x 1.5 m (5' X 5')	150 (6)	1.8 m (6-0)	1.8 m (6-0)	150 (6)
1.8 m x 600 (6' X 2')	175 (7)	2.15 m (7-2)	950 (3-2)	175 (7)
1.8 m x 900 (6' X 3')	175 (7)	2.15 m (7-2)	1.25 m (4-2)	175 (7)
1.8 m x 1.2 m (6' X 4')	175 (7)	2.15 m (7-2)	1.55 m (5-2)	175 (7)
1.8 m x 1.5 m (6' X 5')	175 (7)	2.15 m (7-2)	1.85 m (6-2)	175 (7)
1.8 m x 1.8 m (6' X 6')	175 (7)	2.15 m (7-2)	2.15 m (7-2)	175 (7)
2.1 m x 1.2 m (7' X 4')	200 (8)	2.5 m (8-4)	1.6 m (5-4)	200 (8)
2.1 m x 1.5 m (7' X 5')	200 (8)	2.5 m (8-4)	1.9 m (6-4)	200 (8)
2.1 m x 1.8 m (7' X 6')	200 (8)	2.5 m (8-4)	2.2 m (7-4)	200 (8)
2.1 m x 2.1 m (7' X 7')	200 (8)	2.5 m (8-4)	2.5 m (8-4)	200 (8)
2.4 m x 1.2 m (8' X 4')	200 (8)	2.8 m (9-4)	1.6 m (5-4)	200 (8)
2.4 m x 1.5 m (8' X 5')	200 (8)	2.8 m (9-4)	1.9 m (6-4)	200 (8)
2.4 m x 1.8 m (8' X 6')	200 (8)	2.8 m (9-4)	2.2 m (7-4)	200 (8)
2.4 m x 2.1 m (8' X 7')	200 (8)	2.8 m (9-4)	2.5 m (8-4)	200 (8)
2.4 m x 2.4 m (8' X 8')	200 (8)	2.8 m (9-4)	2.8 m (9-4)	200 (8)
3.0 m x 1.5 m (10' X 5')	250 (10)	3.5 m (11-8)	2.0 m (6-8)	250 (10)
3.0 m x 1.8 m (10' X 6')	250 (10)	3.5 m (11-8)	2.3 m (7-8)	250 (10)
3.0 m x 2.1 m (10' X 7')	250 (10)	3.5 m (11-8)	2.6 m (8-8)	250 (10)
3.0 m x 2.4 m (10' X 8')	250 (10)	3.5 m (11-8)	2.9 m (9-8)	250 (10)
3.0 m x 2.7 m (10' X 9')	250 (10)	3.5 m (11-8)	3.2 m (10-8)	250 (10)
3.0 m x 3.0 m (10' X 10')	250 (10)	3.5 m (11-8)	3.5 m (11-8)	250 (10)
3.3 m x 1.2 m (11' X 4')	275 (11)	3.85 m (12-10)	1.75 m (5-10)	275 (11)
3.3 m x 1.8 m (11' X 6')	275 (11)	3.85 m (12-10)	2.35 m (7-10)	275 (11)
3.3 m x 2.4 m (11' X 8')	275 (11)	3.85 m (12-10)	2.95 m (9-10)	275 (11)
3.3 m x 3.0 m (11' X 10')	275 (11)	3.85 m (12-10)	3.55 m (11-10)	275 (11)
3.3 m x 3.3 m (11' X 11')	275 (11)	3.85 m (12-10)	3.85 m (12-10)	275 (11)
3.6 m x 1.2 m (12' X 4')	300 (12)	4.2 m (14-0)	1.8 m (6-0)	300 (12)
3.6 m x 1.8 m (12' X 6')	300 (12)	4.2 m (14-0)	2.4 m (8-0)	300 (12)
3.6 m x 2.4 m (12' X 8')	300 (12)	4.2 m (14-0)	3.0 m (10-0)	300 (12)
3.6 m x 3.0 m (12' X 10')	300 (12)	4.2 m (14-0)	3.6 m (12-0)	300 (12)
3.6 m x 3.6 m (12' X 12')	300 (12)	4.2 m (14-0)	4.2 m (14-0)	300 (12)

REVISIONS	
DATE	DESCRIPTION
9-7-89	DRAWN
3-27-90	REVISED
10-21-93	REVISED
8-23-94	REVISED
3-17-97	REVISED
8-9-07	REVISED

STD. 9M-48

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DETAIL: PRECAST CONCRETE BOX CULVERT SECTION

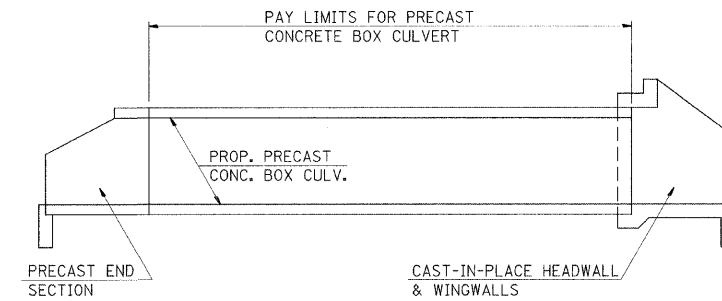
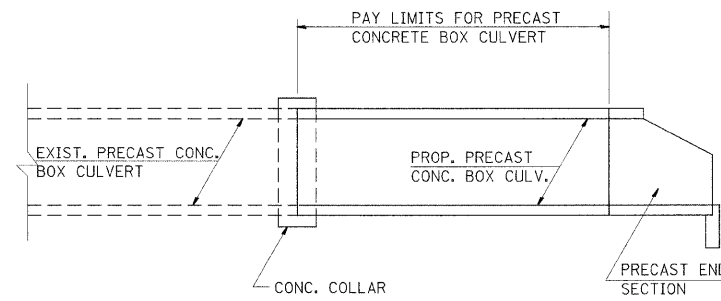
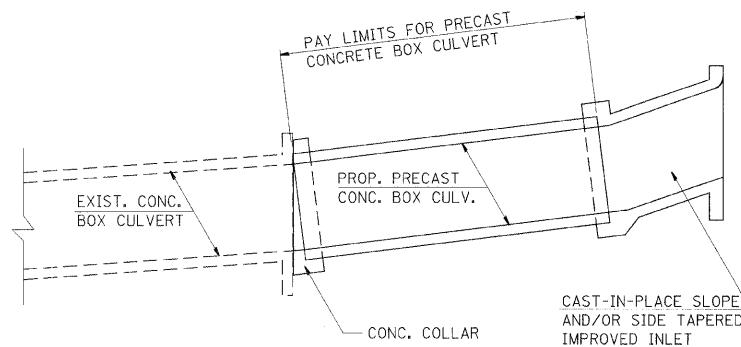
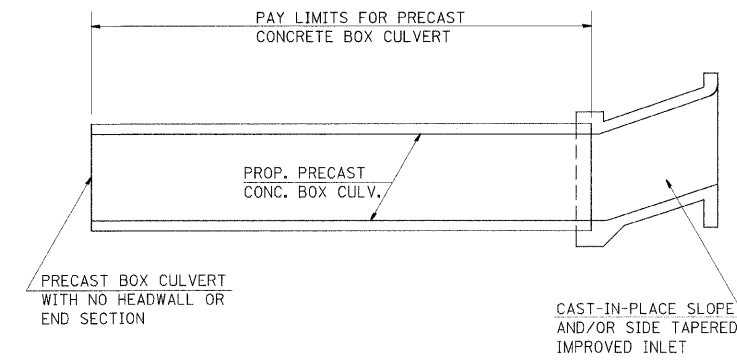
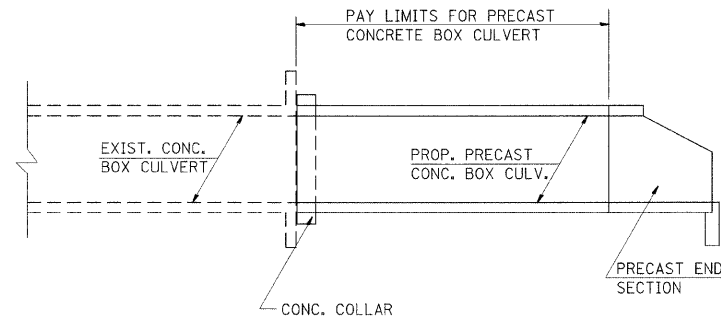
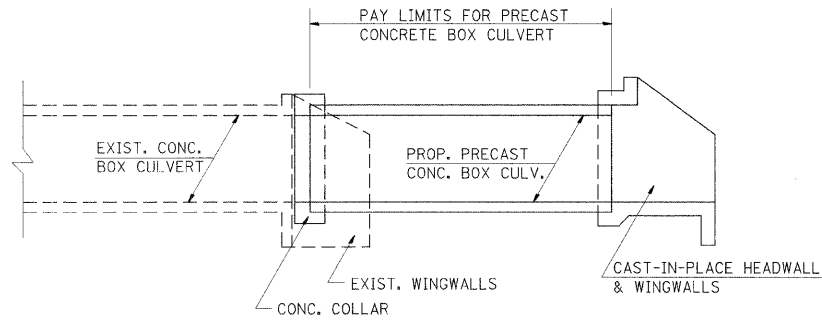
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HORIZ. NONE
DATE

DRAWN BY CNH
CHECKED BY

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	79
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

PAYMENT LIMITS FOR PRECAST CONCRETE BOX CULVERTS



CULVERT EXTENSIONS

NEW CULVERTS

NOTES

WHEN PRECAST CONCRETE BOX CULVERTS ARE SPECIFIED ON THE PLANS, THEY WILL BE MEASURED BY THE METER (FOOT). THE OVERALL LENGTH SHALL BE MEASURED OUT-TO-OUT OF THE PRECAST SEGMENTS ALONG THE CENTERLINE OF THE CULVERT. THE BOX CULVERT END SECTIONS WILL BE MEASURED AS EACH. CAST-IN-PLACE COLLARS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE PRECAST CONCRETE BOX CULVERT. SEE ARTICLE 540.08 OF THE STANDARD SPECIFICATIONS ADOPTED JANUARY 1, 2007.

THE TERM "BOX CULVERT END SECTION" AS USED HEREIN SHALL BE DEFINED AS EITHER PRECAST END SECTIONS OR CAST-IN-PLACE HEADWALLS AND WINGWALLS CONSTRUCTED AS SHOWN IN THE PLANS.

THROUGHOUT THESE PLANS, QUANTITIES SHOWN FOR CLASS SI CONCRETE AND REBARS TO BE USED IN COLLARS, HEADWALLS, WING WALLS, OR IMPROVED INLETS FOR PRECAST CONCRETE BOX CULVERTS ARE PROVIDED FOR INFORMATION AND BIDDING ONLY, AND SHALL NOT BE PAID FOR SEPARATELY.

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

REVISIONS	
REVISION	DATE
REVISED	3-11-92
REVISED	12-9-92
REVISED	10-18-93
REVISED	8-23-94
REVISED	3-24-97

STD. 9M-81

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETAIL:
**PAYMENT LIMITS FOR PRECAST
CONCRETE BOX CULVERTS**

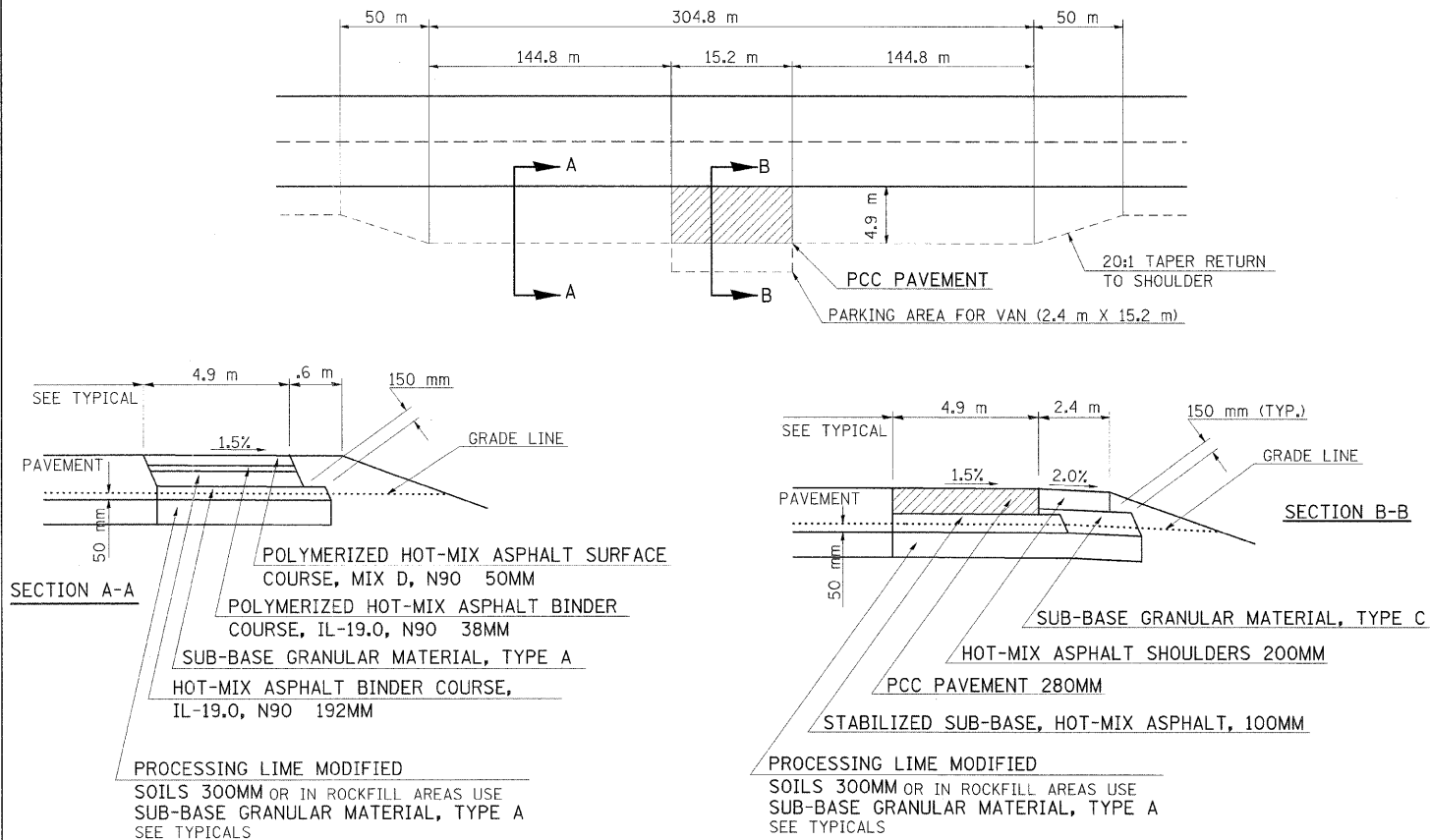
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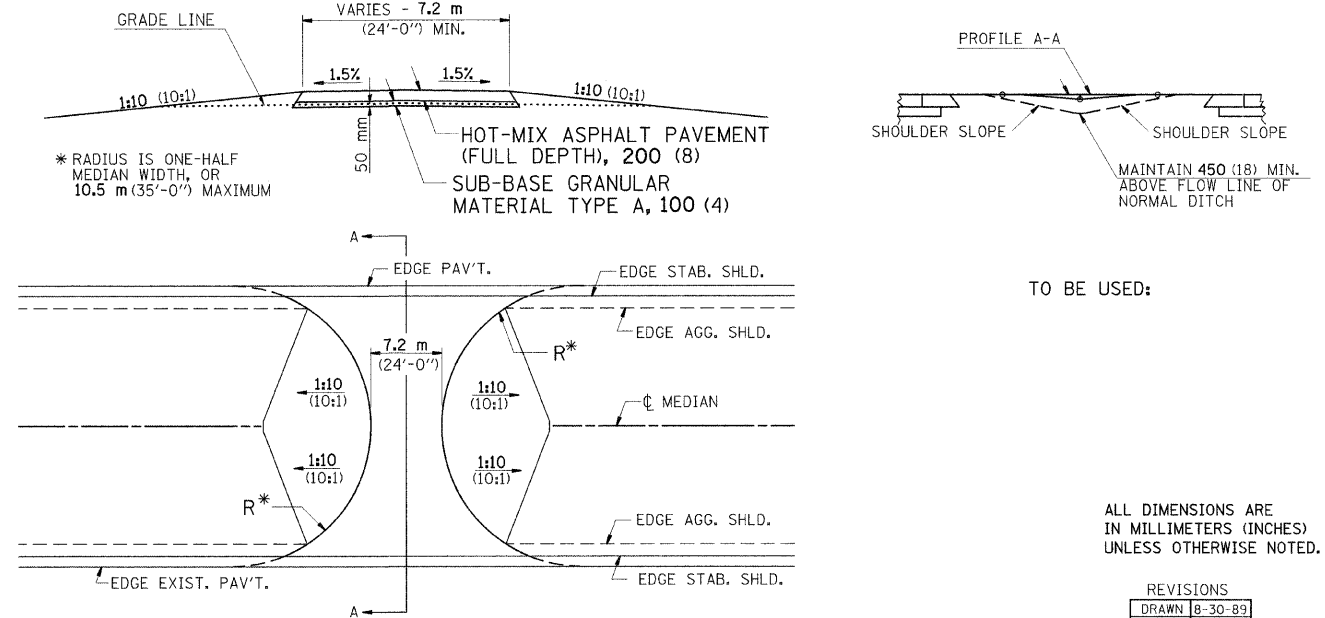
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	80
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

PORTABLE SCALE TURNOUT



DETAIL OF PROPOSED MEDIAN CROSSOVER



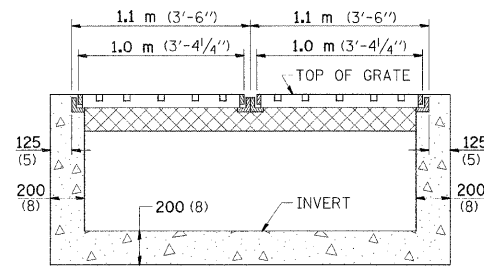
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REVISIONS

DRAWN	8-30-89
REVISED	9-28-93
REVISED	3-19-97
REVISED	3-19-97

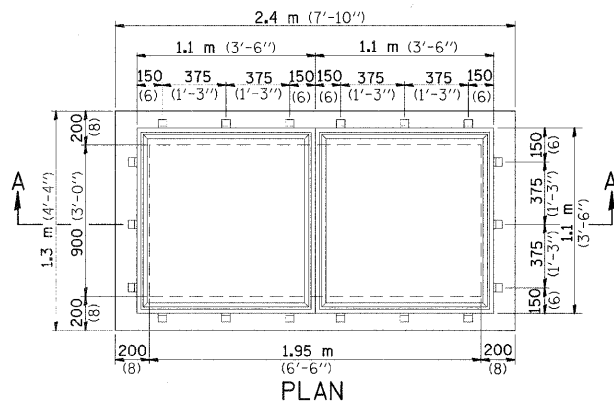
MODIFIED STD. 9M-55

DETAIL OF INLET SPECIAL 542546 DOUBLE



GENERAL NOTES

FOR DETAILS OF GRATING AND FRAME, SEE STD. 542546. CLASS SI CONCRETE SHALL BE USED THROUGHOUT. EXPOSED CONCRETE EDGES SHALL BE BEVELLED 20 (3/4). THE INLET SPECIAL 542546 DOUBLE WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH, WHICH PRICE WILL INCLUDE FURNISHING ALL MATERIALS AND CONSTRUCTING THE WORK IN PLACE IN ACCORDANCE WITH THE DETAILS SHOWN HEREIN.



REVISIONS

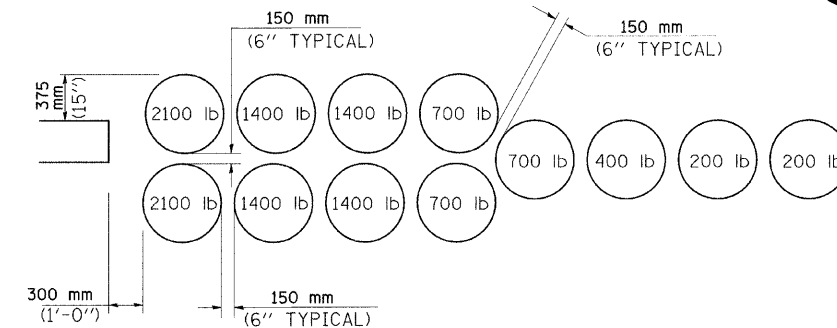
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REVISED	9-28-93
REVISED	8-22-94
REVISED	3-18-97

STD. 9M-55

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

IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3

FOR 55 MPH SPEED LIMIT



REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETAILS:
PORTABLE SCALE TURNOUT;
INLET SPECIAL 542546 DOUBLE;
PROPOSED MEDIAN CROSSOVER;
IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3

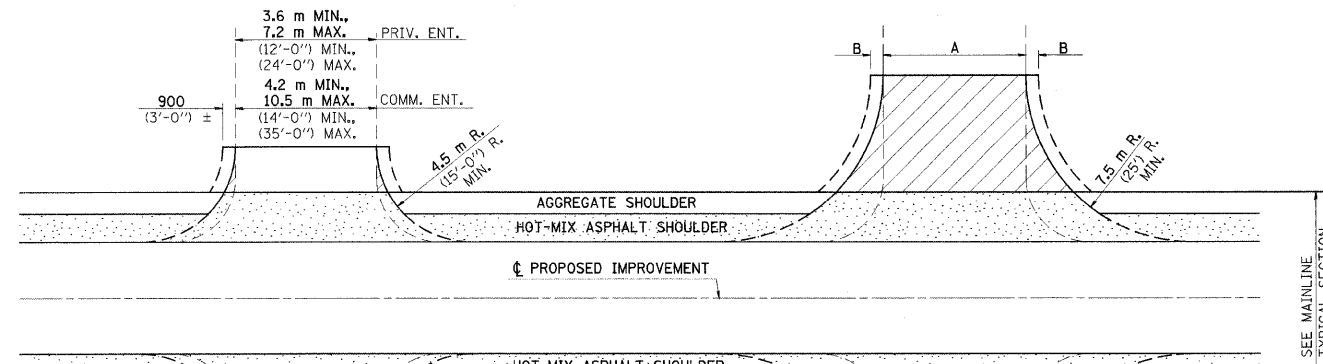
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HORIZ. DATE

DRAWN BY CNH
CHECKED BY

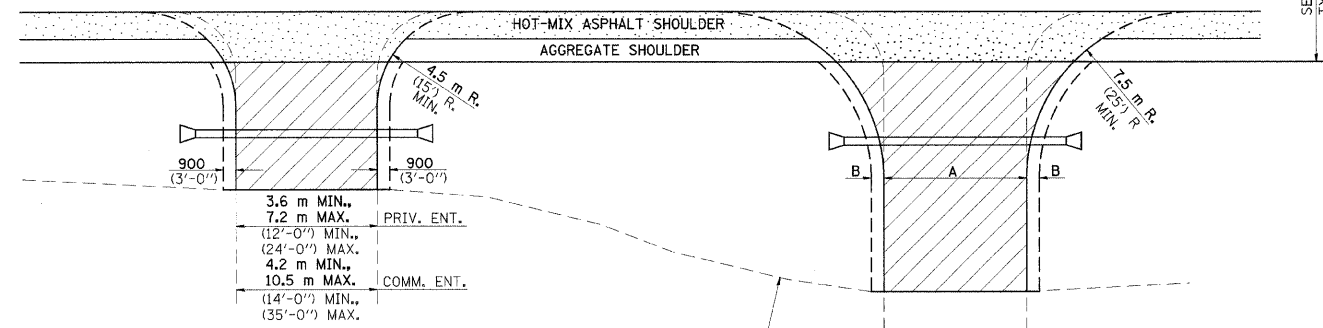
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	81
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

RURAL SIDE APPROACH DETAILS

PRIVATE AND COMMERCIAL ENTRANCES



SIDEROADS



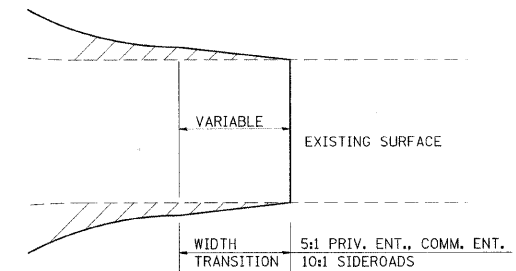
PRIVATE AND COMMERCIAL ENTRANCES (PROPOSED CULVERT)

SIDEROADS (PROPOSED CULVERT)

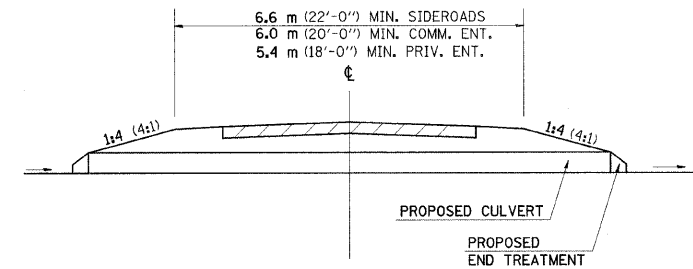
SIDEROAD DIMENSIONS (MIN.)

ADT	A (FT.)	B (FT.)
0 TO 250	5.4 m (18'-0")	600 (2'-0")
250 TO 400	6.0 m (20'-0")	600 (2'-0")
GREATER THAN 400	6.6 m (22'-0")	1.2 m (4'-0")

WIDTH TRANSITION DETAIL TO EXISTING (IF APPLICABLE)



DETAIL FOR CALCULATING CULVERT LENGTH



FIELD ENTRANCE TREATMENT

CONSTRUCT MAINLINE HOT-MIX ASPHALT AND AGGREGATE SHOULDERS THROUGH FIELD ENTRANCES. IF A PIPE IS REQUIRED, PROVIDE A 6.6 m (22'-0") WIDE EARTH EMBANKMENT WITH 4.5 m (15'-0") RADII AT THE INTERSECTION.

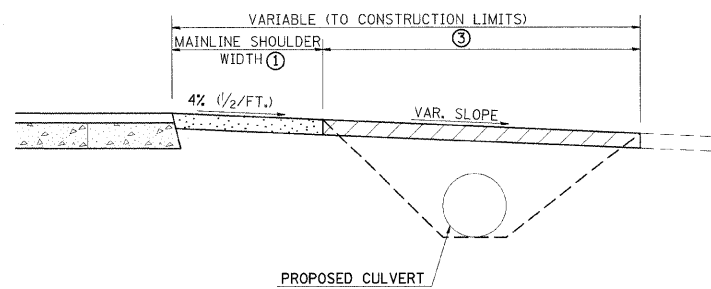
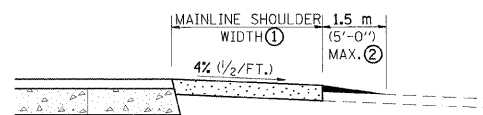
LEGEND

- ① CONSTRUCT HOT-MIX ASPHALT SHOULDER "FULL SHOULDER WIDTH" THROUGH ENTRANCE/INTERSECTION UNLESS OTHERWISE SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- ② IF REQUIRED, AGGREGATE TAPER FOR EXISTING GRAVEL SURFACE; HOT-MIX ASPHALT TAPER FOR EXISTING HIGHER TYPE SURFACES.
- ③ 150 (6) AGGREGATE SURFACE COURSE FOR EXISTING GRAVEL SURFACE; 50 (2) HOT-MIX ASPHALT RESURFACING ON 100 (4) AGGREGATE BASE COURSE FOR EXISTING HOT-MIX ASPHALT SURFACE; PCC DRIVEWAY PAVEMENT [150(6) - PE; 175 (7) - CE] FOR EXISTING CONCRETE SURFACE.
- ④ 75 (3) MINIMUM HOT-MIX ASPHALT RESURFACING ON 200 (8) MINIMUM AGGREGATE BASE COURSE FOR EXISTING GRAVEL SURFACE OR OIL & CHIP SURFACE; MATCH EXISTING FOR EXISTING HIGHER TYPE SURFACES.

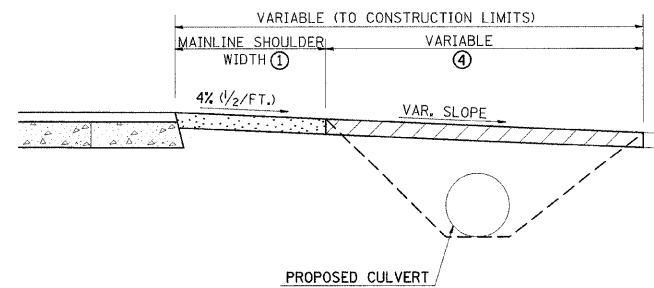
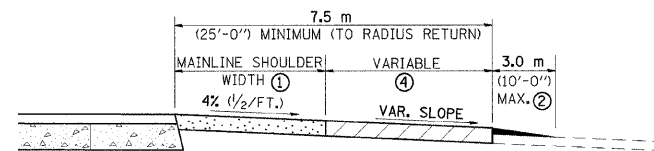
GENERAL NOTES

- ENTRANCE LOCATIONS ARE TO COMPLY WITH IDOT'S POLICY "ACCESS TO STATE HIGHWAYS".
- IN GENERAL, RELOCATED PRIVATE ENTRANCES ARE TO HAVE A 4.8 m (16'-0") WIDE SURFACE WITH 900 (3'-0") WIDE SHOULDERS [6.6 m (22'-0") WIDE EMBANKMENT].
- SEE PLANS FOR PROPOSED PROFILE GRADES AT ENTRANCES/SIDEROADS. THE DESIRABLE MAXIMUM PROFILE GRADE FOR ENTRANCES ARE 12% FOR PE; 10% FOR CE.
- ENTRANCE PIPE CULVERTS ARE TO BE A MINIMUM 375 (15) DIAMETER AND NORMALLY REPLACED IN KIND; SIDEROAD PIPE CULVERTS ARE GENERALLY TO BE CONCRETE [450 (18) MINIMUM DIAMETER].
- THE INTERSECTION RADII OF SIDEROADS CONSTRUCTED TO FULL POLICY STANDARDS SHOULD COMPLY WITH THAT NOTED IN THE BUREAU OF LOCAL ROADS ADMINISTRATIVE POLICIES MANUAL (5-8-13).

PRIVATE AND COMMERCIAL ENTRANCES



SIDEROADS



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

REVISIONS	
NAME	DATE
REVISIONS	
REVISED 5-15-92	
REVISED 10-18-93	
REVISED 3-24-97	
REVISED 1-25-00	
REVISED 8-9-07	
STD. 9M-83	

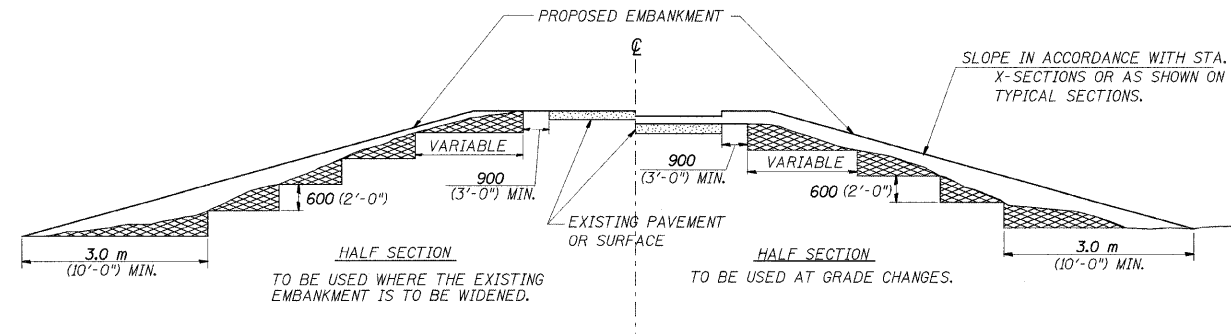
ILLINOIS DEPARTMENT OF TRANSPORTATION
**DETAIL:
RURAL SIDE APPROACH**

SCALE: VERT. NONE
HORIZ.
DATE

DRAWN BY CNH
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	82
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL CROSS SECTION SHOWING STEP CONSTRUCTION ON EXISTING FILL



MATERIAL TO BE REMOVED AND REPLACED IN THE EMBANKMENT IN ACCORDANCE WITH ART. 205.04 OF THE STANDARD SPECIFICATION. COST TO BE INCLUDED IN THE VARIOUS ITEMS OF EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED BECAUSE OF THIS WORK.

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

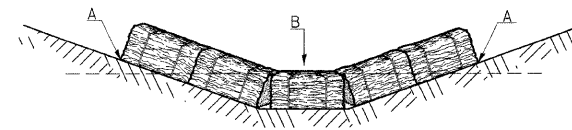
REVISIONS

REDRAWN	2-15-89
REVISED	9-14-93
REVISED	8-16-94
REVISED	2-25-97

STD. 9M-16

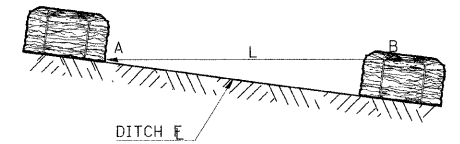
TEMPORARY DITCH CHECKS

PLACEMENT OF TEMPORARY DITCH CHECK IN DRAINAGEWAY



POINTS A SHOULD BE HIGHER THAN POINT B

SPACING BETWEEN TEMPORARY DITCH CHECKS



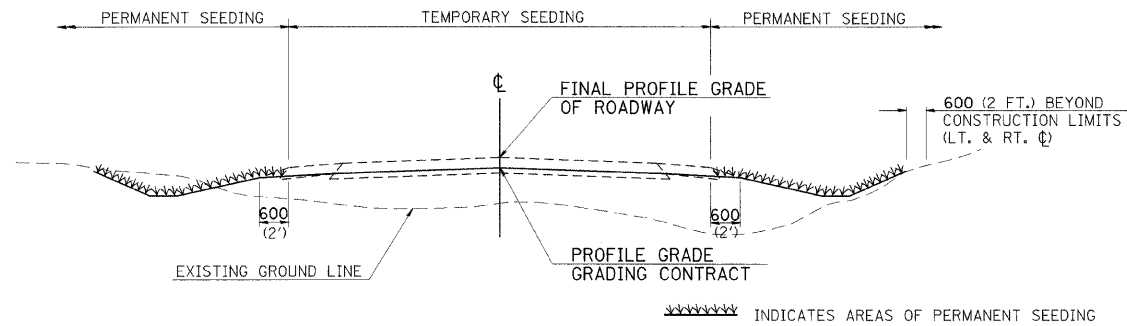
L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION
B = THE LOW POINT IN CENTER OF CHECK

REVISIONS

DRAWN	9-01-99
REVISED	10-3-01
REVISED	
REVISED	

STD. 9-108

SEEDING - MULCHING CONTRACTS



GENERAL NOTES

IN GENERAL, ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION OPERATIONS SHALL BE SEEDED AND MULCHED UPON COMPLETION OF ALL GRADING OPERATIONS. PERMANENT SEEDING SHALL BEGIN ON THE OUTER 600 (2') OF THE CROWN OF THE GRADED ROADWAY AND EXTEND TO 600 (2') BEYOND CONSTRUCTION LIMITS. TEMPORARY SEEDING SHALL BE PLACED ON THE CROWN OF THE GRADED ROADWAY AND AS DIRECTED BY THE ENGINEER.

ALL SEEDING AREAS SHALL BE MULCHED.

THE RATES OF APPLICATION FOR FERTILIZER, LIMESTONE AND MULCH SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS.

SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS SHALL GOVERN THIS WORK UNLESS OTHERWISE SPECIFIED IN THE PLANS OR SPECIAL PROVISIONS.

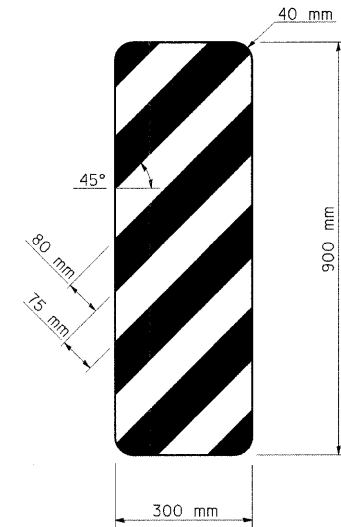
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

REVISIONS

DRAWN	11-29-94
DRAWN	4-10-97

STD. 9M-99

SIGN DETAIL



COLORS: STRIPES - BLACK
BACKGROUND - YELLOW (RETROREFLECTIVE)

OM-3R
RT STA 2+540 TO STA 2+820

REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETAILS:
TYPICAL CROSS SECTION SHOWING
STEP CONSTRUCTION ON EXISTING FILL;
SEEDING - MULCHING CONTRACTS;
TEMPORARY DITCH CHECKS;
SIGNS

SCALE: VERT. NONE
HORIZ.
DATE

DRAWN BY CNH
CHECKED BY

PLOT DATE = 11/21/2008
 FILE NAME = c:\pwworksp\p1001\HEADCN\jms43642\und25994\up.dgn
 PLOT SCALE = 56.0000 / IN.
 USER NAME = headcn

Bench Mark: Chiseled "□" at S.W. wingwall of S.N. 002-0008, Elev. 102.726

Existing Structure: S.N. 002-0008. Built 1929 as S.B.I. Route 146, Section 101. Existing structure consists of a single span reinforced concrete slab superstructure with a total length of 7.92 m and an out to out width of 12.82 m. The abutments are closed type abutments supported on timber piling. The structure shall be replaced with a double barrel box culvert. Traffic to be maintained using stage construction.

No salvage

All dimensions are in millimeters (mm) except as noted.

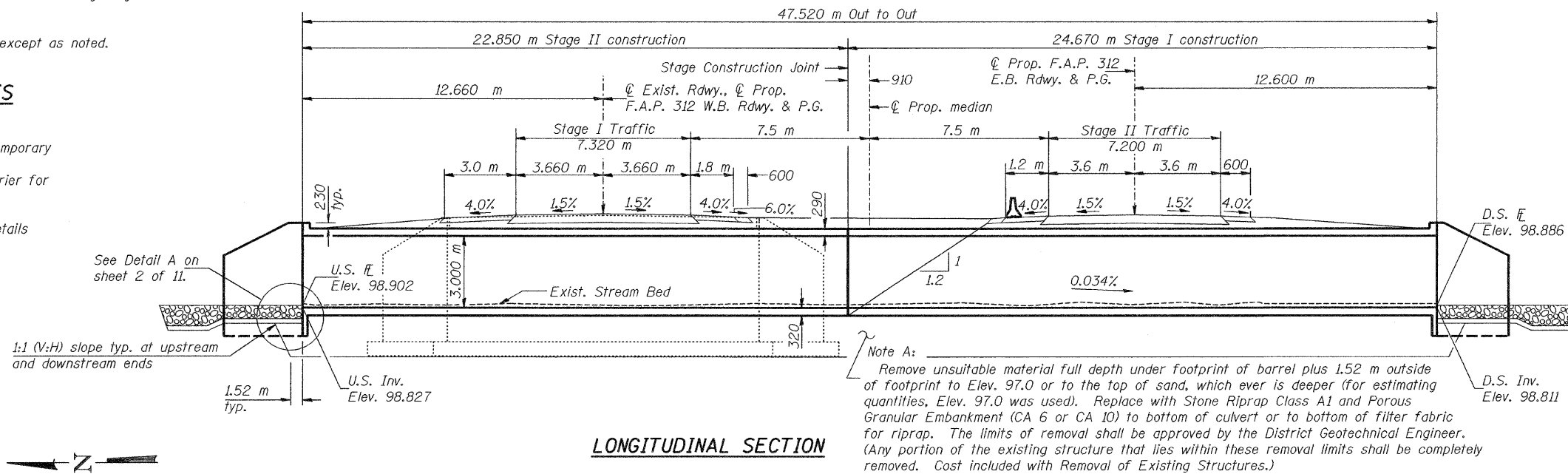
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1
F.A.P. 312	101B-1	ALEXANDER	152	83	11 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

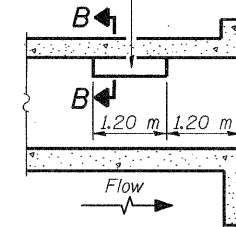
Contract No. 98577

INDEX OF SHEETS

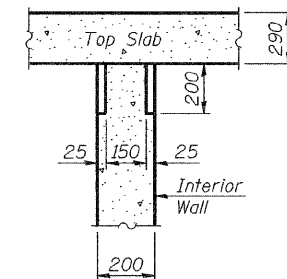
- 1 General Plan & Elevation
- 2 General Data
- 3 Stage Construction & Temporary Sheet Piling Details
- 4 Temporary Concrete Barrier for Stage Construction
- 5-7 Culvert Details
- 8 Bar Splicer Assembly Details
- 9-11 Soil Boring Logs



Notch formed by rough finished board attached to and removed with form-work, interior wall. (Do not chamfer).

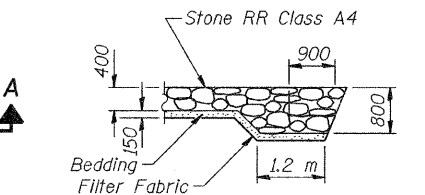


LONGITUDINAL SECTION



SECTION B-B

PHOEBE NESTING SITE DETAILS
(Downstream End Only)

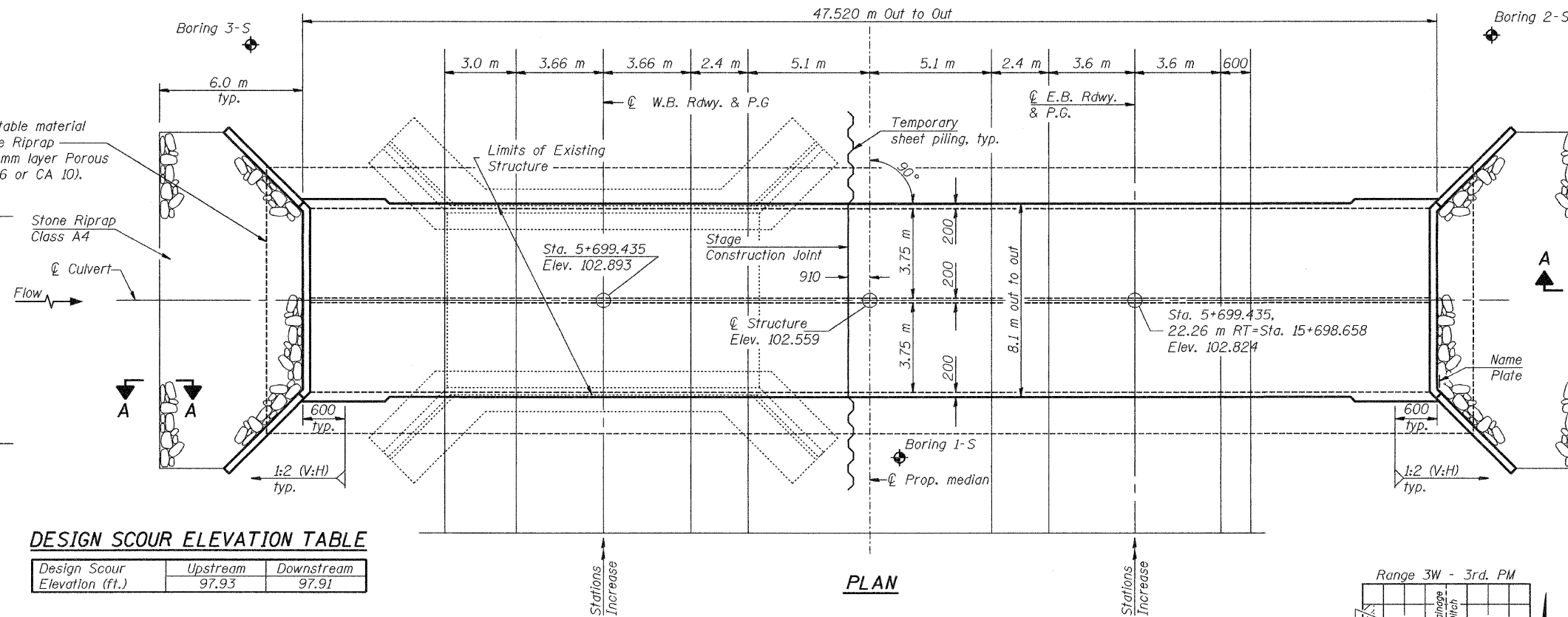


SECTION A-A

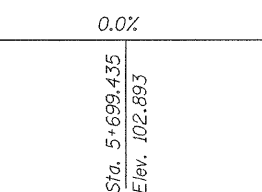
NAME PLATE
See Std. 515001

STATION 5+699.435
BUILT 200 BY
STATE OF ILLINOIS
F.A.P. RTE. 312 SEC. 101B-1
LOADING MS18
STRUCTURE NO. 002-2002

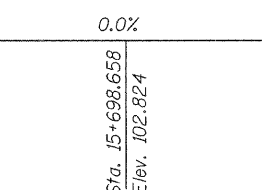
GENERAL PLAN & ELEVATION
ILLINOIS ROUTE 146 OVER
DRAINAGE DITCH
F.A.P. RTE. 312 - SECTION 101B-1
ALEXANDER COUNTY
STATION 5+699.435
STRUCTURE NO. 002-2002



Limits of removal of unsuitable material and replacement with Stone Riprap Class A1 capped with 150 mm layer Porous Granular Embankment (CA 6 or CA 10).



PROFILE GRADE
Along W.B. Rdwy



PROFILE GRADE
Along E.B. Rdwy

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Upstream	Downstream
	97.93	97.91

WATERWAY INFORMATION

Drainage Area = 10.18 km² Low Grade Elev. 102.63 @ Sta. 5+600.000

Flood	Freq. Yr.	Q m ³ /s	Opening m ²		Nat. H.W.E. - m		Headwater El.		
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
Design	50	15.9	17.1	18.4	101.28	0.01	0.00	0.01	0.00
Base	100	17.6	17.5	18.8	101.33	0.02	0.00	0.02	0.00
Overtopping									
Max. Calc.	500	21.8	18.2	19.4	101.42	0.05	0.00	0.05	0.00

LOADING MS18

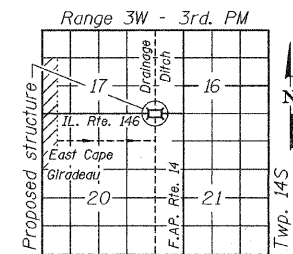
Allow 2.4 kN/m² for future wearing surface.

DESIGN SPECIFICATIONS

1996 AASHTO with 1997, 1998, 1999 & 2000 Interims

DESIGN STRESSES

FIELD UNITS
f_c = 24 MPa
f_y = 420 MPa (reinforcement)



DESIGNED	WJ/sbk
CHECKED	R.T.D.
DRAWN	R.T.D.
CHECKED	LSB/ccc

EXAMINED **Thomas J. Domagala**
ENGINEER OF SPECIAL DESIGN

PASSED **Ralph E. Anderson**
ENGINEER OF BRIDGES AND STRUCTURES



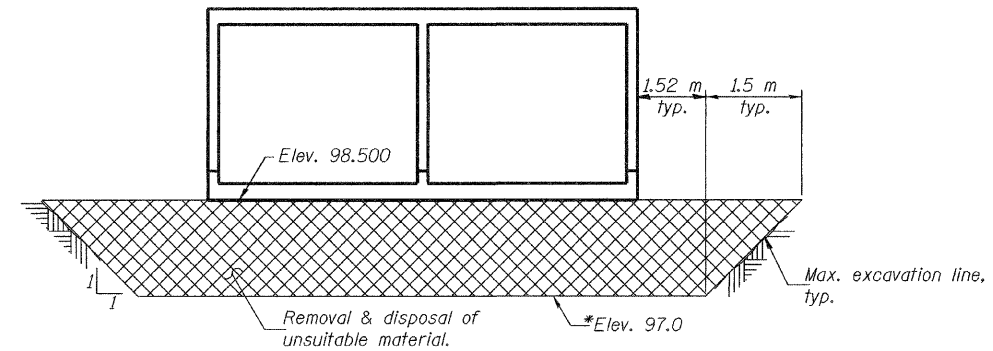
EXPIRES 11-30-2010

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 2
F.A.P. 312	101B-1	ALEXANDER	152	84	11 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-	Contract No. 98577		

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 420 MPa. See special provisions.
Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
All dimensions are in millimeters (mm) except as noted.
Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.
Precast culvert alternate is not allowed.
All reinforcement bars shall be epoxy coated.

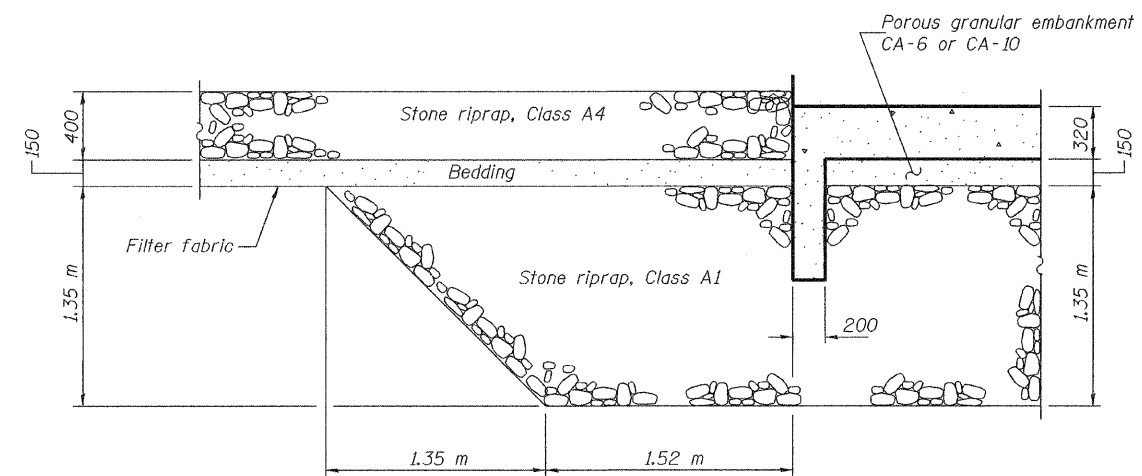


SECTION THRU BARRELS

*See Note A on sheet 1 of 11.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures	Each	1
Concrete Box Culverts	m ³	347.6
Reinforcement Bars, Epoxy Coated	kg	36000
Name Plates	Each	1
Stone Riprap, Class A4	m ²	146.9
Filter Fabric	m ²	146.9
Temporary Sheet Piling	m ²	94.9
Bar Splacers	Each	140
Removal and Disposal of Unsuitable Material	m ³	987.1
Porous Granular Embankment	m ³	103.0
Stone Riprap, Class A1	M Ton	1682.0

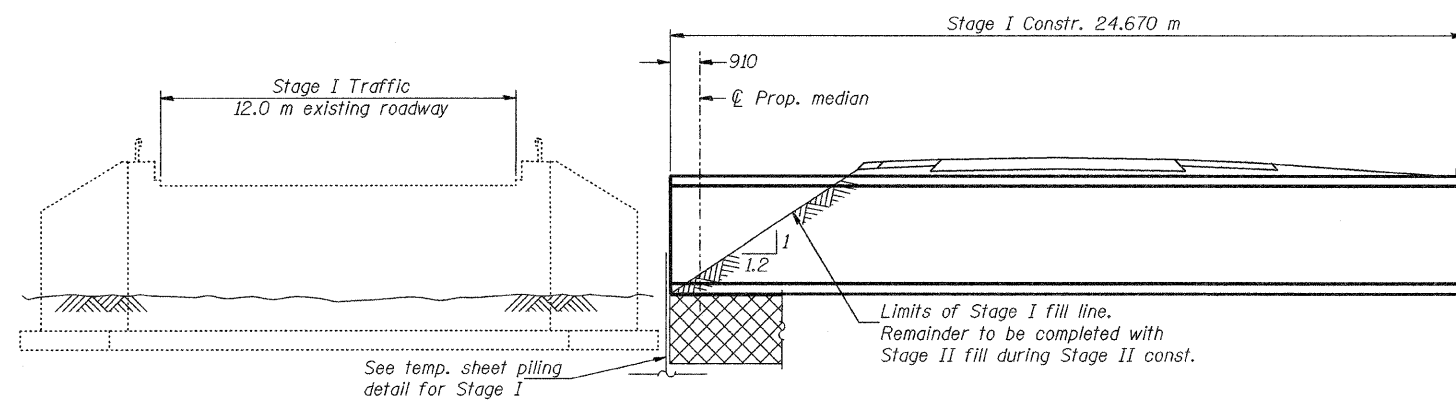


DETAIL A

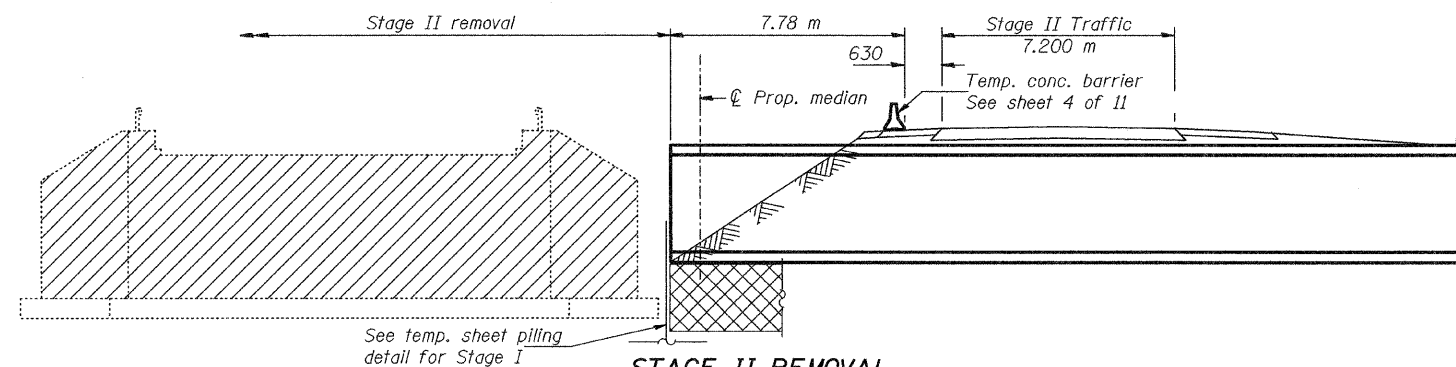
DESIGNED	J.S.B.
CHECKED	C.C.C.
DRAWN	h.t. duong R.T.D.
CHECKED	J.S.B./C.C.C.

Jan 26, 2009
EXAMINED *Thomas J. Donagale*
ENGINEER OF STRUCTURAL DESIGN
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

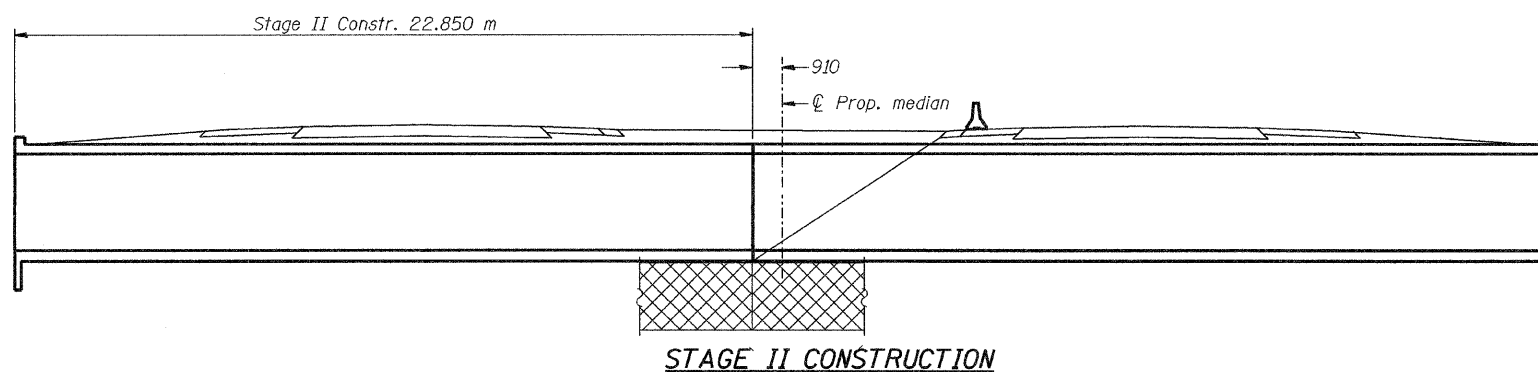
GENERAL DATA
F.A.P. RTE. 312 - SECTION 101B-1
ALEXANDER COUNTY
STATION 5+699.435
STRUCTURE NO. 002-2002



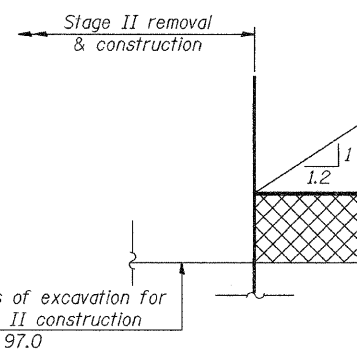
STAGE I CONSTRUCTION



STAGE II REMOVAL



STAGE II CONSTRUCTION



Notes: All cross sections are looking east.
For quantity of temporary concrete barrier, see roadway plans.
Hatched area indicates removal of existing structures.
Cross-hatched area indicates removal and disposal of unsuitable material and replacement with Stone Riprap, Class A1 and Porous Granular Embankment.

DESIGNED	J.S.B.
CHECKED	C.C.C.
DRAWN	R.T.D.
CHECKED	J.S.B./C.C.C.

Jan 26, 2009

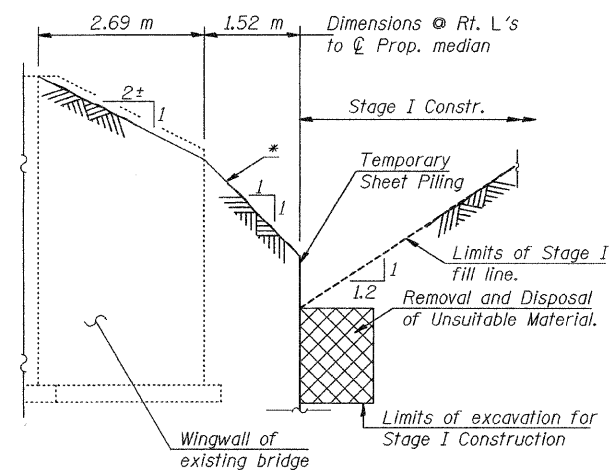
EXAMINED *Thomas J. Domagala*
ENGINEER OF BRIDGE DESIGN

PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

TEMPORARY SHEET PILING DETAIL FOR STAGE II REMOVAL & CONSTRUCTION

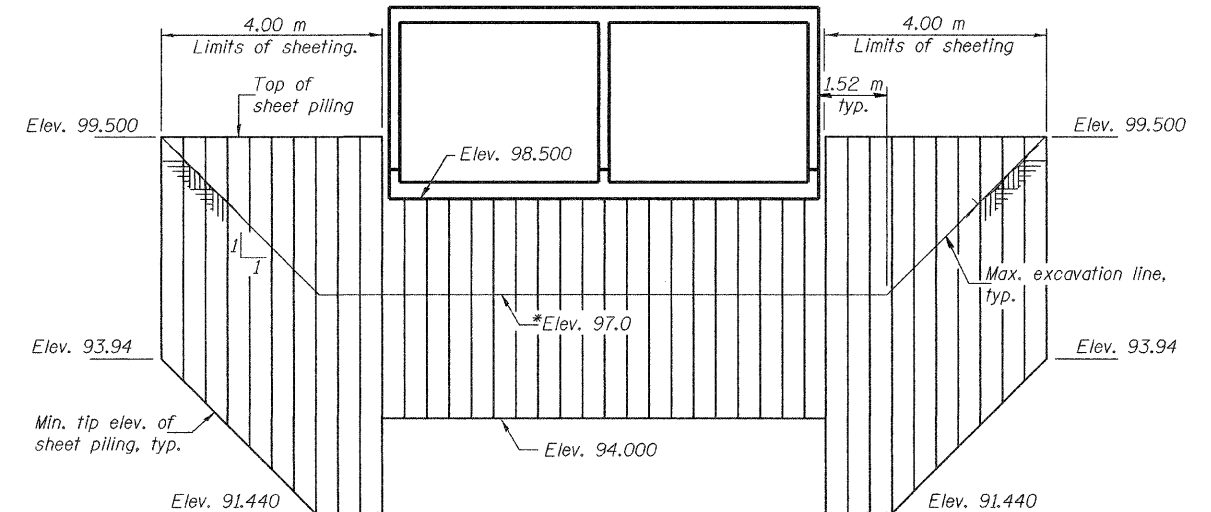
(Looking east)

Temporary sheet piling shall remain in place until the unsuitable material on the north side of the sheet piling has been replaced with Stone Riprap, Class A1 and Porous Granular Embankment for Stage II construction.



TEMPORARY SHEET PILING DETAIL FOR STAGE I CONSTRUCTION

*The Contractor shall be allowed to remove soil on the retained side at a 1:1 slope to reach the required top of the sheet piling elevation.



TEMPORARY SHEET PILING

If the Contractor chooses to alter the the temporary cantilevered sheet piling design requirements for lesser requirements, then full design submittals with the required seals will be expected by the department, for review and approval.

Minimum Section Modulus of temporary sheet piling shall be $1613 \times 10^3 \text{mm}^3$ per meter of wall. $F_y = 265 \text{MPa}$.

*Elevation 97.0 was assumed for designing temporary sheet piling. If a lower elevation for maximum excavation is required, then the new elevation shall be submitted to the Bureau of Bridges & Structures prior to installation of the temporary sheet piling. Redesign of the sheet piling may be required. See Note A on sheet 1 of 11.

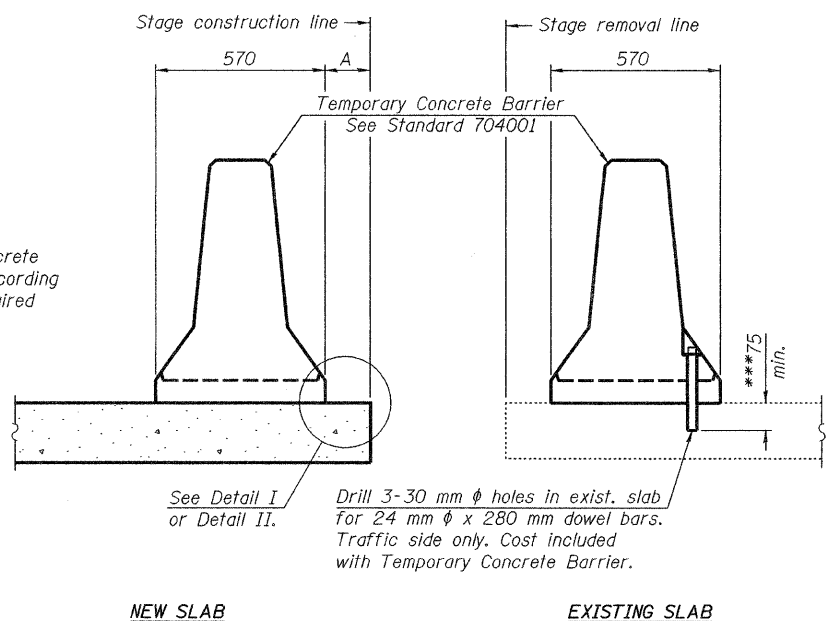
STAGE CONSTRUCTION & TEMPORARY SHEET PILING DETAILS
F.A.P. RTE. 312 - SECTION 101B-1
ALEXANDER COUNTY
STATION 5+699.435
STRUCTURE NO. 002-2002

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

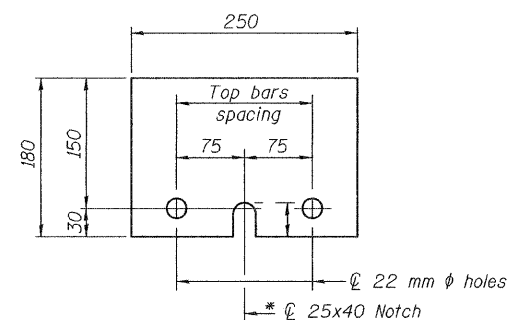
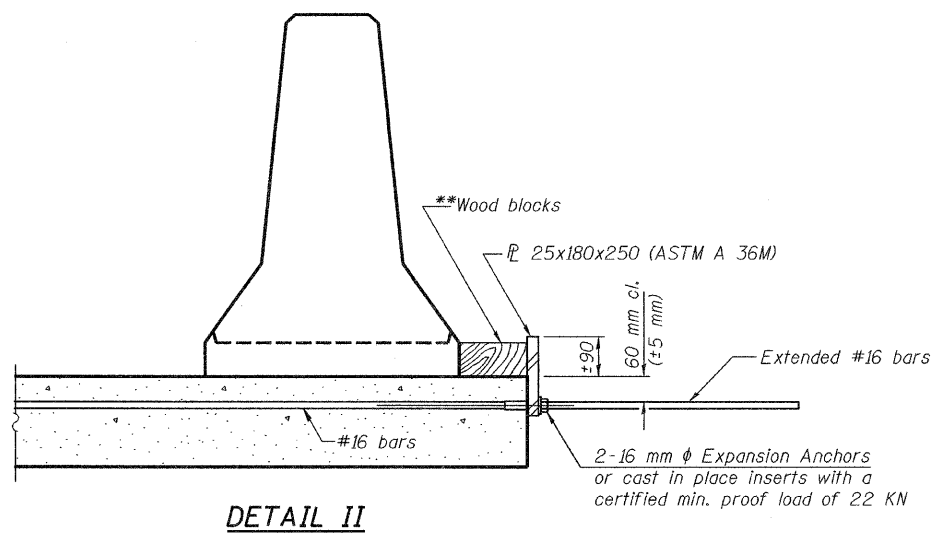
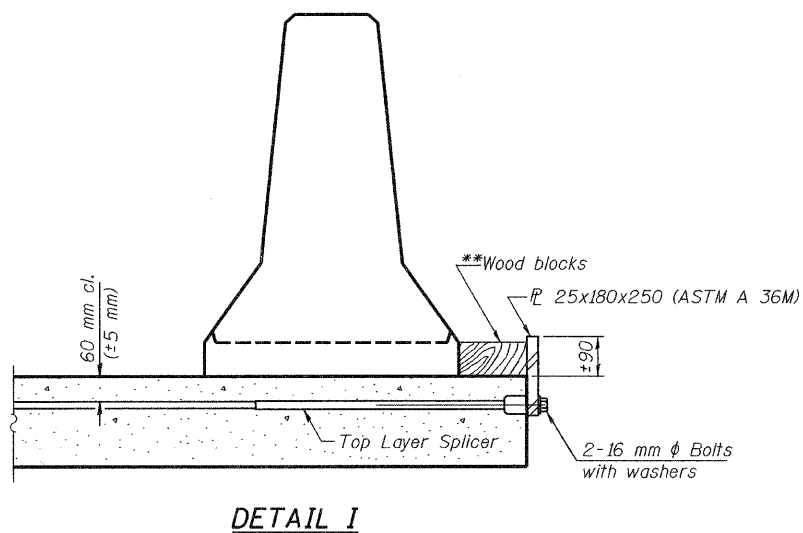
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 4 11 SHEETS
F.A.P. 312	101B-1	ALEXANDER	152	86	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		

Contract No. 98577

When "A" is 1 m or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 1 m.



SECTIONS THRU SLAB



STEEL RETAINER 25x180x250

*Required only with Detail II

NOTES

- Detail I - With Bar Splicer or Couplers:
Connect one (1) 25x180x250 steel \bar{L} to the top layer of couplers with 2-16 mm ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.
- Detail II - With Extended Reinforcement Bars:
Connect one (1) 25x180x250 steel \bar{L} to the concrete slab or concrete wearing surface with 2-16 mm ϕ . Expansion anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \bar{C} of each barrier panel.
- Cost of anchorage is included with Temporary Concrete Barrier. The 25x180x250 plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.
- All dimensions are in millimeters except as noted.

- **Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.
- ***Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

DESIGNED	J.S.B.
CHECKED	C.C.C.
DRAWN	h.f. duong
CHECKED	J.S.B./C.C.C.

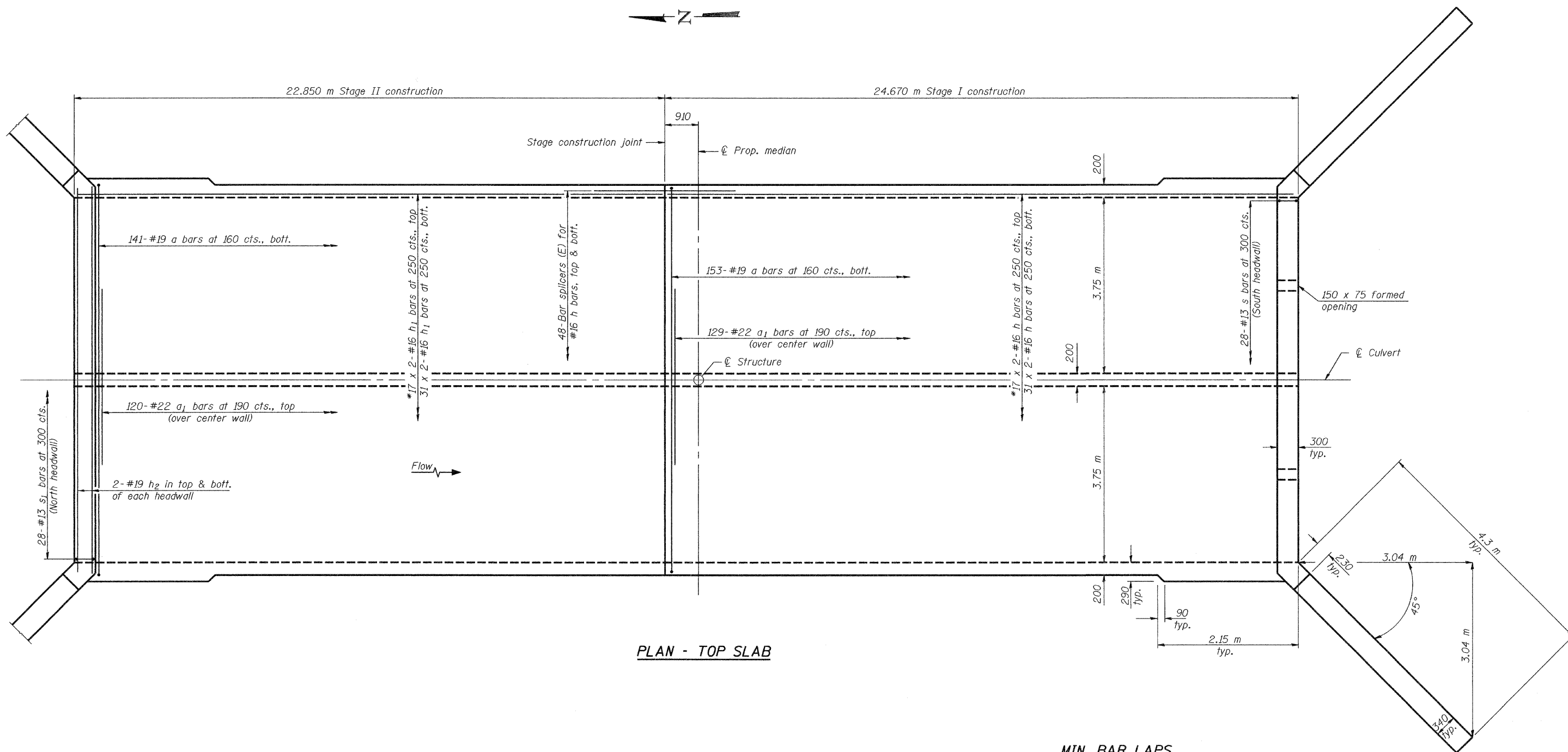
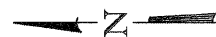
Jan 26, 2009
EXAMINED *Thomas J. Donagale*
ENGINEER OF BRIDGE DESIGN
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION
F.A.P. RTE. 312 - SECTION 101B-1
ALEXANDER COUNTY
STATION 5+699.435
STRUCTURE NO. 002-2002

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 5 11 SHEETS
F.A.P. 312	101B-1	ALEXANDER	152	87	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

Contract No. 98577



PLAN - TOP SLAB

MIN. BAR LAPS
#16 bars = 550

Notes: Bars indicated thus 17x2-#16 etc. indicates 17 lines of bars with 2 lengths per line.
See sheet 8 of 11 for bar splicer details.
A distance of 2.15 m of the barrel shall be poured monolithically with the wingwalls.
All reinforcement bars shall be epoxy coated.
*See cross section on sheet 7 of 11.

DESIGNED	J.S.B.
CHECKED	C.C.C.
DRAWN	n.t. duong R.T.D.
CHECKED	J.S.B./C.C.C.

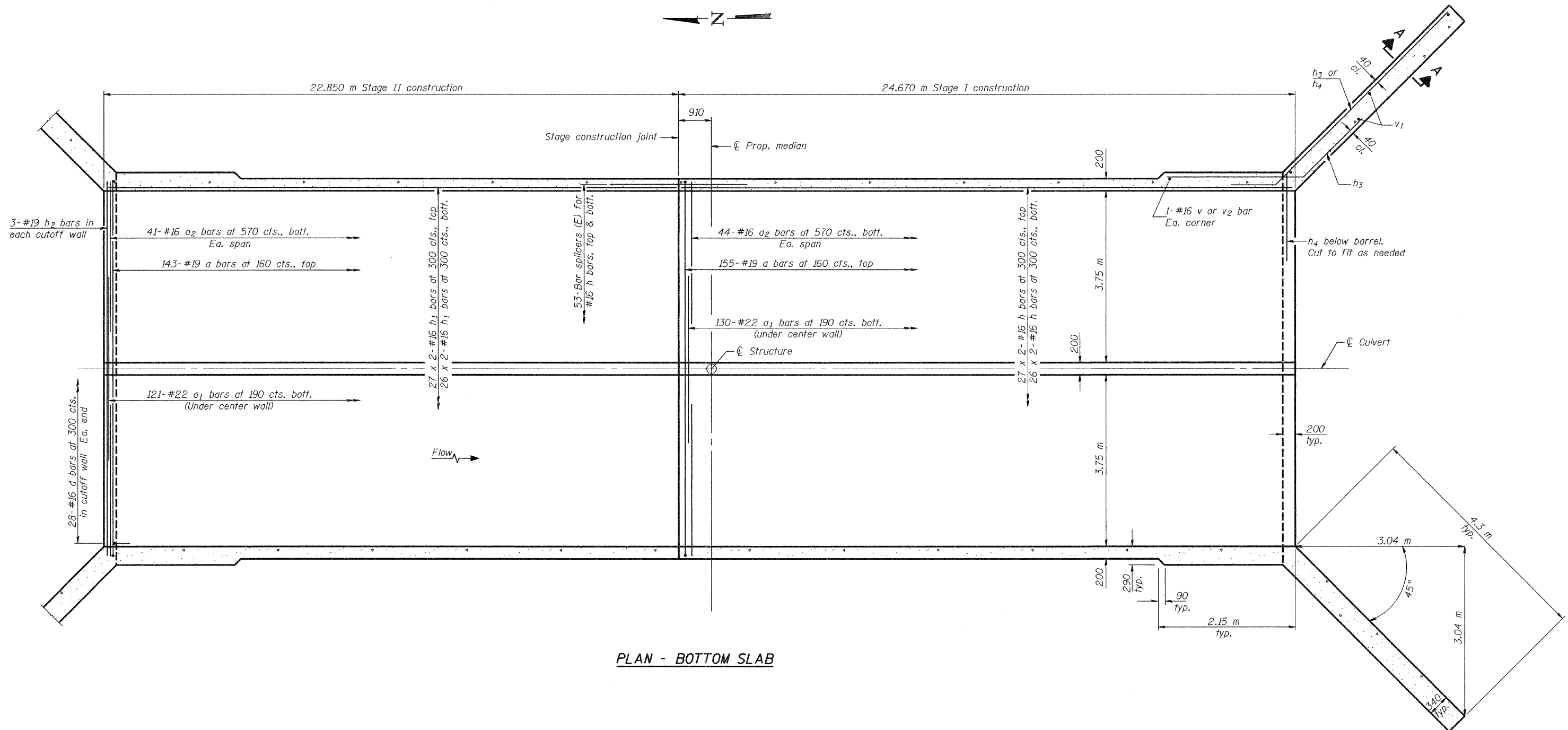
Jan 26, 2009
EXAMINED *Thomas J. Domagalaki*
ENGINEER OF BRIDGE DESIGN
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

CULVERT DETAILS
F.A.P. RTE. 312 - SECTION 101B-1
ALEXANDER COUNTY
STATION 5+699.435
STRUCTURE NO. 002-2002

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO. F.A.P. 312	SECTION 101B-1	COUNTY ALEXANDER	TOTAL SHEETS 152	SHEET NO. 83	SHEET NO. 6 11 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

Contract No. 98577



PLAN - BOTTOM SLAB

Notes: Bars indicated thus 27x2-#16 etc. indicates 27 lines of bars with 2 lengths per line.
See sheet 8 of 11 for bar splicer details.
A distance of 2.15 m of the barrel shall be poured monolithically with the wingwalls.
For Section A-A, see sheet 7 of 11.
All reinforcement bars shall be epoxy coated.

MIN. BAR LAPS
#16 bars = 550

DESIGNED	J.S.B.
CHECKED	C.C.C.
DRAWN	h.T. duong R.T.D.
CHECKED	J.S.B./C.C.C.

EXAMINED *Thomas J. Donagale*
ENGINEER OF BRIDGE DESIGN
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

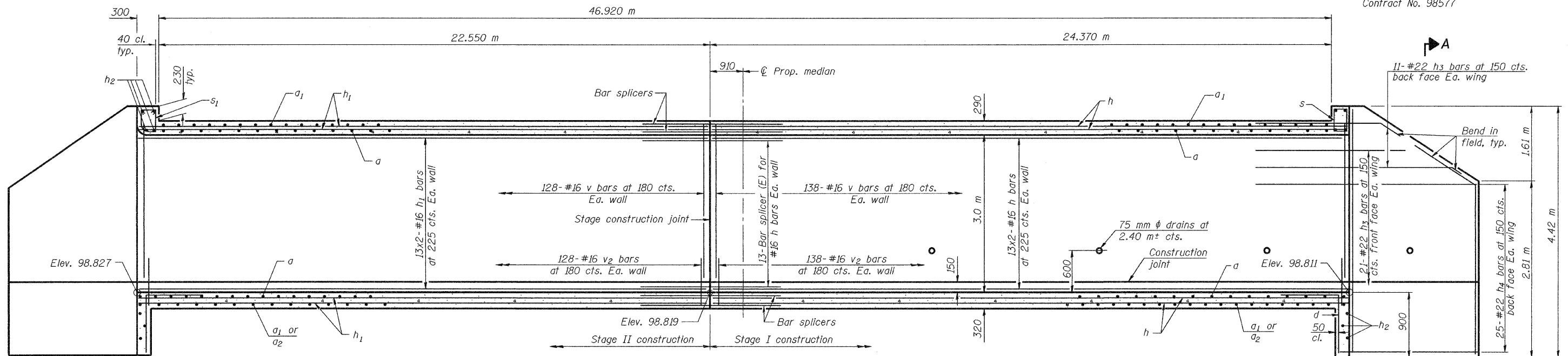
Jan 26, 2009

CULVERT DETAILS
F.A.P. RTE. 312 - SECTION 101B-1
ALEXANDER COUNTY
STATION 5+699.435
STRUCTURE NO. 002-2002

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

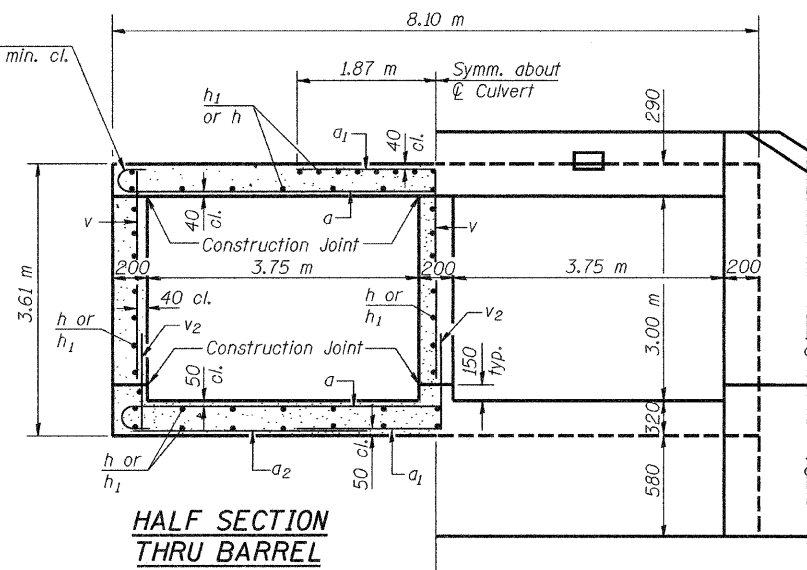
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 7 11 SHEETS
F.A.P. 312	101B-1	ALEXANDER	152	89	
ILLINOIS		FED. AID PROJECT-			

Contract No. 98577



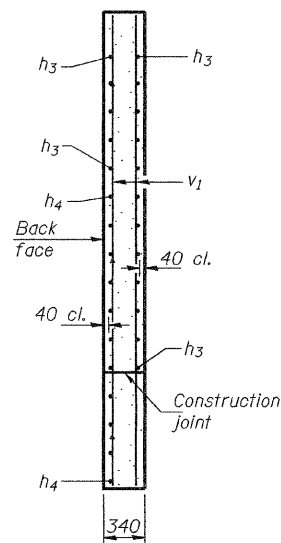
LONGITUDINAL SECTION

Tilt hook of a bars if necessary for 40 mm min. cl.



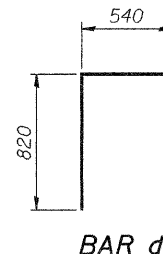
HALF SECTION THRU BARREL

HALF END ELEVATION

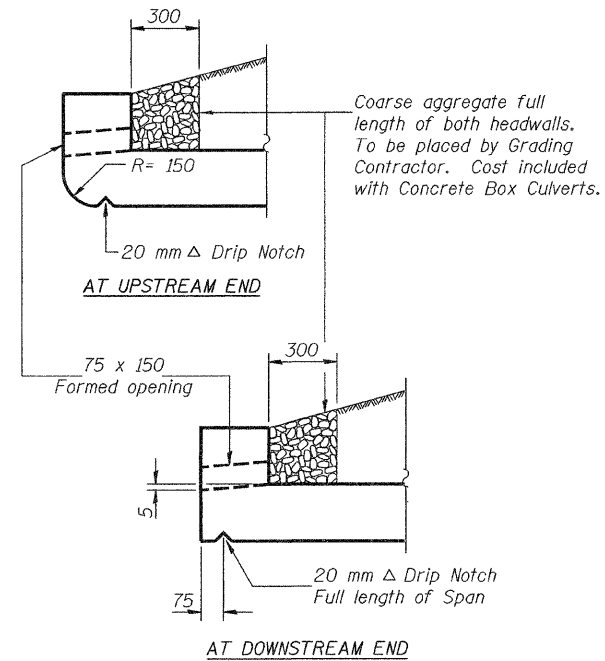


SECTION A-A

MIN. BAR LAPS
#16 bars = 550



BAR d



DRAIN DETAIL

BILL OF MATERIAL

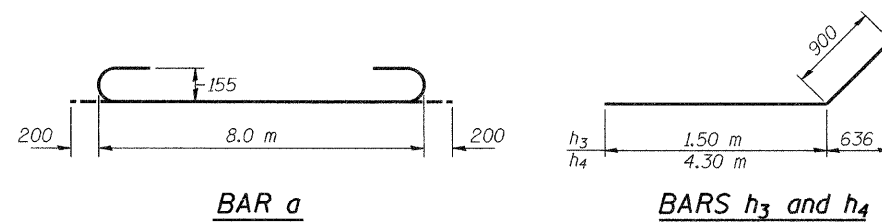
Bar	No.	Size	Length (m)	Shape
a	592	#19	8.40	U
a1	500	#22	3.74	—
a2	170	#16	2.75	—
d	56	#16	1.36	L
h	280	#16	12.56	—
h1	280	#16	11.65	—
h2	14	#19	8.18	—
h3	128	#22	2.40	—
h4	100	#22	5.20	—
s	28	#13	1.55	□
s1	28	#13	1.50	□
v	802	#16	3.06	—
v1	16	#16	4.32	—
v2	802	#16	0.85	—
Concrete Box Culverts		m ³	347.6	
Reinforcement Bars, Epoxy Coated		kg	36000	

Bars indicated thus 13 x 2-#16 etc. indicates 13 lines of bars with 2 lengths per line. See sheet 8 of 11 for bar splicer details. All reinforcement bars shall be epoxy coated.

DESIGNED	J.S.B.
CHECKED	C.C.C.
DRAWN	h.t. duong R.T.D.
CHECKED	J.S.B./C.C.C.

EXAMINED *Thomas J. Domagala*
ENGINEER OF BRIDGE DESIGN
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

Jan 26, 2009



BAR a

BARS h3 and h4

BAR s

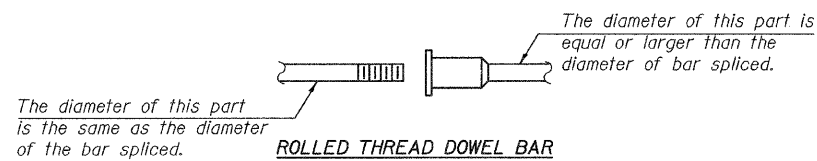
BAR s1

CULVERT DETAILS
F.A.P. RTE. 312 - SECTION 101B-1
ALEXANDER COUNTY
STATION 5+699.435
STRUCTURE NO. 002-2002

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 8 11 SHEETS
F.A.P. 312	101B-1	ALEXANDER	152	90	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		

Contract No. 98577



** ONE PIECE

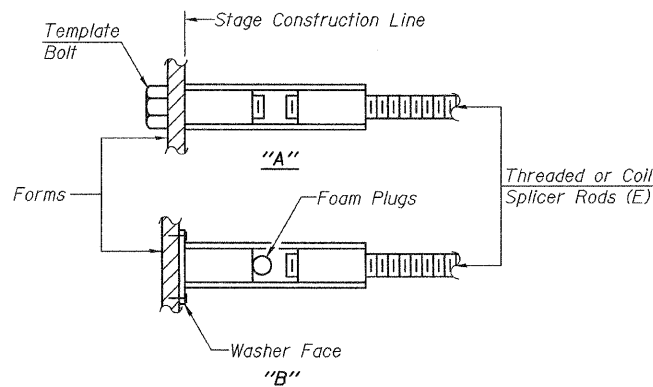
Wire Connector



WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

**Heavy Hex Nuts conforming to ASTM
A 563M, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

"A": Set bar splicer assembly by means of a template bolt.
"B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.

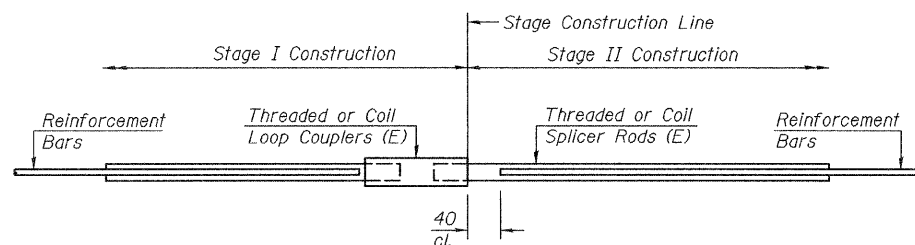
NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
Splicer rods shall be of minimum 400 MPa yield strength, threaded or coiled full length.
All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- ① Minimum Capacity (Tension in kN) = $1.25 \times f_y \times A_t$
- ② Minimum *Pull-out Strength (Tension in kN) = $0.66 \times f_y \times A_t$

Where f_y = Yield strength of lapped reinforcement bars in MPa.
 A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kN - tension	Min. Pull-Out Strength kN - tension
#16	620 mm	104	55
#19	800 mm	149	79
#22	1.06 m	203	107
#25	1.39 m	268	142



STANDARD

Bar Size	No. Assemblies Required	Location
#16	48	Top slab
#16	39	Walls
#16	53	Bottom slab

DESIGNED	J.S.B.
CHECKED	C.C.C.
DRAWN	h.f.duong
CHECKED	J.S.B./C.C.C.

Jan 26, 2009
EXAMINED *Thomas J. Demagala*
ENGINEER OF BRIDGE DESIGN
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

BAR SPLICER ASSEMBLY DETAILS
F.A.P. RTE. 312 - SECTION 101B-1
ALEXANDER COUNTY
STATION 5+699.435
STRUCTURE NO. 002-2002

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 9 11 SHEETS
F.A.P. 312	101B-1	ALEXANDER	152	91	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

Contract No. 98577

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 2
Date 10/13/99

ROUTE FAP 312 DESCRIPTION IL 146 over Drainage Ditch LOGGED BY Bryan Keller

SECTION 101R-1 LOCATION 0.2 mi. W. IL 3, SEC. 17, TWP. 14S, RNG. 3W, 3 PM

COUNTY Alexander DRILLING METHOD Hollow Stem Auger HAMMER TYPE 149#

STRUCT. NO. 002-0008
Station 5+699.435

BORING NO. 1-S
Station 5+690
Offset 11m Rt
Ground Surface Elev. 102.2 m

DEPTH (m)	DEPTH (ft)	SOIL DESCRIPTION	UCS (kPa)	UCS (%)	BLOWS (150mm)	BLOWS (%)
		Surface Water Elev. <u>98.9</u> m				
		Stream Bed Elev. _____ m				
		Groundwater Elev.: _____ m				
		First Encounter <u>97.59696</u> m				
		Upon Completion _____ m				
		After _____ Hrs.				
		5% Clay (continued)			1	33
					WH	
		Very stiff, moist, brown, Clay A7-6			3	21
					2	306.4
					3	26
		Stiff, moist, brown, Clay A7-6			2	162.8
					3	42
		Medium, very moist, brown, Fine to Medium Sand			7.62	6
		92% Sand			8	
		7% Silt			8	
		1% Clay			8	
		Medium, very moist, brown, Fine to Medium Sand			2	
		94% Sand			7	26
		4% Silt			9	
		2% Clay			9	
		Medium, moist, grey, mottled brown, Clay A7-6			3.05	1
					1	86.2
					1	41
		Soft, very moist, grey mottled brown, Clay A7-6			1	28.7
					1	40
		Loose, very moist, brown, Fine to Medium Sand			4.57	1
					2	22
		93% Sand, 5% Silt, 2% Clay			2	10
		Very loose, very moist, brown, Fine to Medium Sand with Clay seams (no sample)			1	4
					WH	8
		75% Sand			1	13
		20% Silt			1	90.1
		Medium, very moist, brown, Medium to Fine Sand with Gravel			12.19	9

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208)
BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 2 of 2
Date 10/13/99

ROUTE FAP 312 DESCRIPTION IL 146 over Drainage Ditch LOGGED BY Bryan Keller

SECTION 101R-1 LOCATION 0.2 mi. W. IL 3, SEC. 17, TWP. 14S, RNG. 3W, 3 PM

COUNTY Alexander DRILLING METHOD Hollow Stem Auger HAMMER TYPE 149#

STRUCT. NO. 002-0008
Station 5+699.435

BORING NO. 1-S
Station 5+690
Offset 11m Rt
Ground Surface Elev. 102.2 m

DEPTH (m)	DEPTH (ft)	SOIL DESCRIPTION	UCS (kPa)	UCS (%)	BLOWS (150mm)	BLOWS (%)
		Surface Water Elev. <u>98.9</u> m				
		Stream Bed Elev. _____ m				
		Groundwater Elev.: _____ m				
		First Encounter <u>97.59696</u> m				
		Upon Completion _____ m				
		After _____ Hrs.				
		Medium to Coarse Sand with Gravel			12	17
		98% Sand			2	
		2% Silt			9	
		(No Sample)			13.72	8
					9	19.81
					10	
		(No Sample)			15.24	2
					6	21.34
					9	
		Medium, very moist, brown, Medium to Coarse Sand with Gravel			16.76	5
		4% Gravel			5	22.88
		95% Sand			5	
		1% Silt			7	
		ESF=43 Tons			85.1	
		Bottom of hole=17.07 meters				
		Free water observed at 4.57 m			18.29	24.38

Elevation referenced to Bench Mark #105: Elevation=102.71 meters
NOTE: To convert "N" values to "N60" multiply by 1.25

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208)
BBS, from 137 (Rev. 8-99)

SOIL BORING LOGS
F.A.P. RTE. 312 - SECTION 101B-1
ALEXANDER COUNTY
STATION 5+699.435
STRUCTURE NO. 002-2002

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 10 11 SHEETS
F.A.P. 312	101B-1	ALEXANDER	152	92	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

Contract No. 98577

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 2
Date 10/13/99

ROUTE FAP 312 DESCRIPTION IL 146 over Drainage Ditch LOGGED BY Bryan Keller

SECTION 101B-1 LOCATION 0.2 mi. W. IL 3, SEC. 17, TWP. 14S, RNG. 3W, 3 PM

COUNTY Alexander DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140#

STRUCT. NO. 002-0008 Station 5+699.435

BORING NO. 2-S Station 5+716 Offset 37m Rt Ground Surface Elev. 101.7 m

SOIL DESCRIPTION	DEPTH (m)	DRILLING METHOD	UCS (kPa)	FAILURE MODE	DEPTH (m)	DRILLING METHOD	UCS (kPa)	FAILURE MODE
Medium, moist, grey, Silty Clay A-6 with gravel	0.0 - 101.1				0.0 - 5.0			
Hard, moist, brown, Clay A7-6	101.1 - 100.3				5.0 - 6.0			
Stiff, moist, brown mottled grey, Clay A7-6	100.3 - 97.2				6.0 - 7.62			
Soft to medium, moist, brown, Clay A7-6	97.2 - 99.0				7.62 - 9.14			
Soft, very moist, brown, Silt Loam A-4	99.0 - 97.2				9.14 - 91.9			
Vary loose, vary moist, brown, Fine to Medium Sand	97.2 - 96.5				91.9 - 10.67			
Vary loose, very moist, brown, Loam A-4	96.5 - 95.7				10.67 - 12.19			
43% Sand, 48% Silt, 9% Clay	95.7 - 95.7				12.19 - 13.0			
Medium, very moist, grey, Fine	95.7 - 95.7				13.0 - 13.0			

Surface Water Elev. 98.9 m
Stream Bed Elev. _____ m
Groundwater Elev.:
First Encounter 97.2312 m
Upon Completion _____ m
After _____ Hrs. _____ m

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 2 of 2
Date 10/13/99

ROUTE FAP 312 DESCRIPTION IL 146 over Drainage Ditch LOGGED BY Bryan Keller

SECTION 101B-1 LOCATION 0.2 mi. W. IL 3, SEC. 17, TWP. 14S, RNG. 3W, 3 PM

COUNTY Alexander DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140#

STRUCT. NO. 002-0008 Station 5+699.435

BORING NO. 2-S Station 5+716 Offset 37m Rt Ground Surface Elev. 101.7 m

SOIL DESCRIPTION	DEPTH (m)	DRILLING METHOD	UCS (kPa)	FAILURE MODE	DEPTH (m)	DRILLING METHOD	UCS (kPa)	FAILURE MODE
Sand	101.7 - 88.1				13.0 - 17.0			
98% Sand 2% Silt	88.1 - 86.6				17.0 - 18.29			
(No sample)	86.6 - 86.1				18.29 - 18.29			
Dense, very moist, grey, Medium Sand with some Gravel	86.1 - 85.6				18.29 - 18.29			
ESF=45 Tons	85.6 - 85.6				18.29 - 18.29			
Bottom of hole = 15.54 meters	85.6 - 85.6				18.29 - 18.29			
Free water observed at 4.42 m	85.6 - 85.6				18.29 - 18.29			
Elevation referenced to Bench Mark #106; Elevation=102.71 meters	85.6 - 85.6				18.29 - 18.29			
NOTE: To convert "N" values to "N60" multiply by 1.25	85.6 - 85.6				18.29 - 18.29			

Surface Water Elev. 98.9 m
Stream Bed Elev. _____ m
Groundwater Elev.:
First Encounter 97.2312 m
Upon Completion _____ m
After _____ Hrs. _____ m

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

SOIL BORING LOGS
F.A.P. RTE. 312 - SECTION 101B-1
ALEXANDER COUNTY
STATION 5+699.435
STRUCTURE NO. 002-2002

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 11 11 SHEETS
F.A.P. 312	101B-1	ALEXANDER	152	93	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

Contract No. 98577

Page 1 of 2

SOIL BORING LOG

Date 10/15/99

ROUTE FAP 312 DESCRIPTION IL 146 over Drainage Ditch LOGGED BY Bryan Keller

SECTION 101R-1 LOCATION 0.2 mi. W. IL 3, SEC. 17, TWP. 14S, RNG. 3W, 3 PM

COUNTY Alexander DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140#

STRUCT. NO. 002-0008
Station 5+699.435

BORING NO. 3-S
Station 5+712.0
Offset 14m Lt
Ground Surface Elev. 101.6 m

DEPTH (m)	DEPTH (ft)	TEST	UCS (kPa)	UCS (%)	DESCRIPTION	DEPTH (m)	DEPTH (ft)	TEST	UCS (kPa)	UCS (%)
					Surface Water Elev. <u>98.9</u> m					
					Stream Bed Elev. _____ m					
					Groundwater Elev.: _____ m					
					First Encounter <u>95.87</u> m					
					Upon Completion _____ m					
					After _____ Hrs.					
2.8	9.2				Very stiff, moist, black, Clay A7-6	2.8	9.2			
2.8	9.2	2	258.6	28	Medium, very moist, brown to grey, Fine to Medium Sand	2.8	9.2	6		24
1.52	5.0	2	210.7	45	93% Sand, 6% Silt, 1% Clay	1.52	5.0	7.82	3	
1.52	5.0	3			Medium, very moist, brown to grey, Fine to Medium Sand	1.52	5.0	6		
99.4	327.1	1			93% Sand	99.4	327.1	6		
99.4	327.1	2	76.6	32	6% Silt	99.4	327.1	13		
99.4	327.1	1			1% Clay	99.4	327.1	14		
98.7	323.8	1			Medium, very moist, brown, brown mottled grey, Clay A7-6	98.7	323.8	9.14	7	
3.05	10.0	1	95.8	50	Medium, very moist, brown, brown mottled grey, Clay A7-6	3.05	10.0	10		31
3.05	10.0	1			Medium to Coarse Sand with Gravel	3.05	10.0	11		
97.9	321.0				20% Gravel	97.9	321.0	3		
97.9	321.0	WH			78% Sand	97.9	321.0	10		
97.9	321.0	1	28.7	34	2% Silt	97.9	321.0	13		
97.2	320.7	WH			Medium, very moist, grey, Fine to Medium Sand	97.2	320.7	9		
4.57	15.0	2		21	Medium, very moist, grey, Fine to Medium Sand	4.57	15.0	12		28
4.57	15.0	2			97% Sand, 3% Silt	4.57	15.0	15		
		3			Medium, moist, grey, Medium to Coarse Sand with Gravel			9		
		3			Medium, moist, grey, Medium to Coarse Sand with Gravel			15		26
		3			18% Gravel			11		
		3			81% Sand			11		
		3			1% Silt			12.19	3	
6.10	20.0	1				6.10	20.0	12.19	3	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208)
BBS, from 137 (Rev. 8-99)

Page 2 of 2

SOIL BORING LOG

Date 10/15/99

ROUTE FAP 312 DESCRIPTION IL 146 over Drainage Ditch LOGGED BY Bryan Keller

SECTION 101R-1 LOCATION 0.2 mi. W. IL 3, SEC. 17, TWP. 14S, RNG. 3W, 3 PM

COUNTY Alexander DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140#

STRUCT. NO. 002-0008
Station 5+699.435

BORING NO. 3-S
Station 5+712.0
Offset 14m Lt
Ground Surface Elev. 101.6 m

DEPTH (m)	DEPTH (ft)	TEST	UCS (kPa)	UCS (%)	DESCRIPTION	DEPTH (m)	DEPTH (ft)	TEST	UCS (kPa)	UCS (%)
					Surface Water Elev. <u>98.9</u> m					
					Stream Bed Elev. _____ m					
					Groundwater Elev.: _____ m					
					First Encounter <u>95.87</u> m					
					Upon Completion _____ m					
					After _____ Hrs.					
4.11	13.5				Very stiff, moist, black, Clay A7-6	4.11	13.5			
13.72	45.0	6			Medium, very moist, brown to grey, Fine to Medium Sand	13.72	45.0	6		
13.72	45.0	9			93% Sand, 6% Silt, 1% Clay	13.72	45.0	9		
13.72	45.0	14			Medium, very moist, brown to grey, Fine to Medium Sand	13.72	45.0	14		
15.24	50.0	8			93% Sand	15.24	50.0	8		
15.24	50.0	15			6% Silt	15.24	50.0	15		
15.24	50.0	14			1% Clay	15.24	50.0	14		
16.24	53.4	8			Medium, very moist, brown, brown mottled grey, Clay A7-6	16.24	53.4	8		
16.24	53.4	15			Medium, very moist, brown, brown mottled grey, Clay A7-6	16.24	53.4	15		
16.24	53.4	14			Medium to Coarse Sand with Gravel	16.24	53.4	14		
16.75	55.0				20% Gravel	16.75	55.0			
16.75	55.0				78% Sand	16.75	55.0			
16.75	55.0				2% Silt	16.75	55.0			
16.75	55.0				Medium, very moist, grey, Fine to Medium Sand	16.75	55.0			
16.75	55.0				Medium, very moist, grey, Fine to Medium Sand	16.75	55.0			
16.75	55.0				97% Sand, 3% Silt	16.75	55.0			
16.75	55.0				Medium, moist, grey, Medium to Coarse Sand with Gravel	16.75	55.0			
16.75	55.0				Medium, moist, grey, Medium to Coarse Sand with Gravel	16.75	55.0			
16.75	55.0				18% Gravel	16.75	55.0			
16.75	55.0				81% Sand	16.75	55.0			
16.75	55.0				1% Silt	16.75	55.0			
18.29	60.0					18.29	60.0			

No Sample

Medium, moist, grey, Medium to Coarse Sand with Gravel

ESF=42.0 Tons

Bottom of hole=15.54 meters

Free water observed at 4.57 m

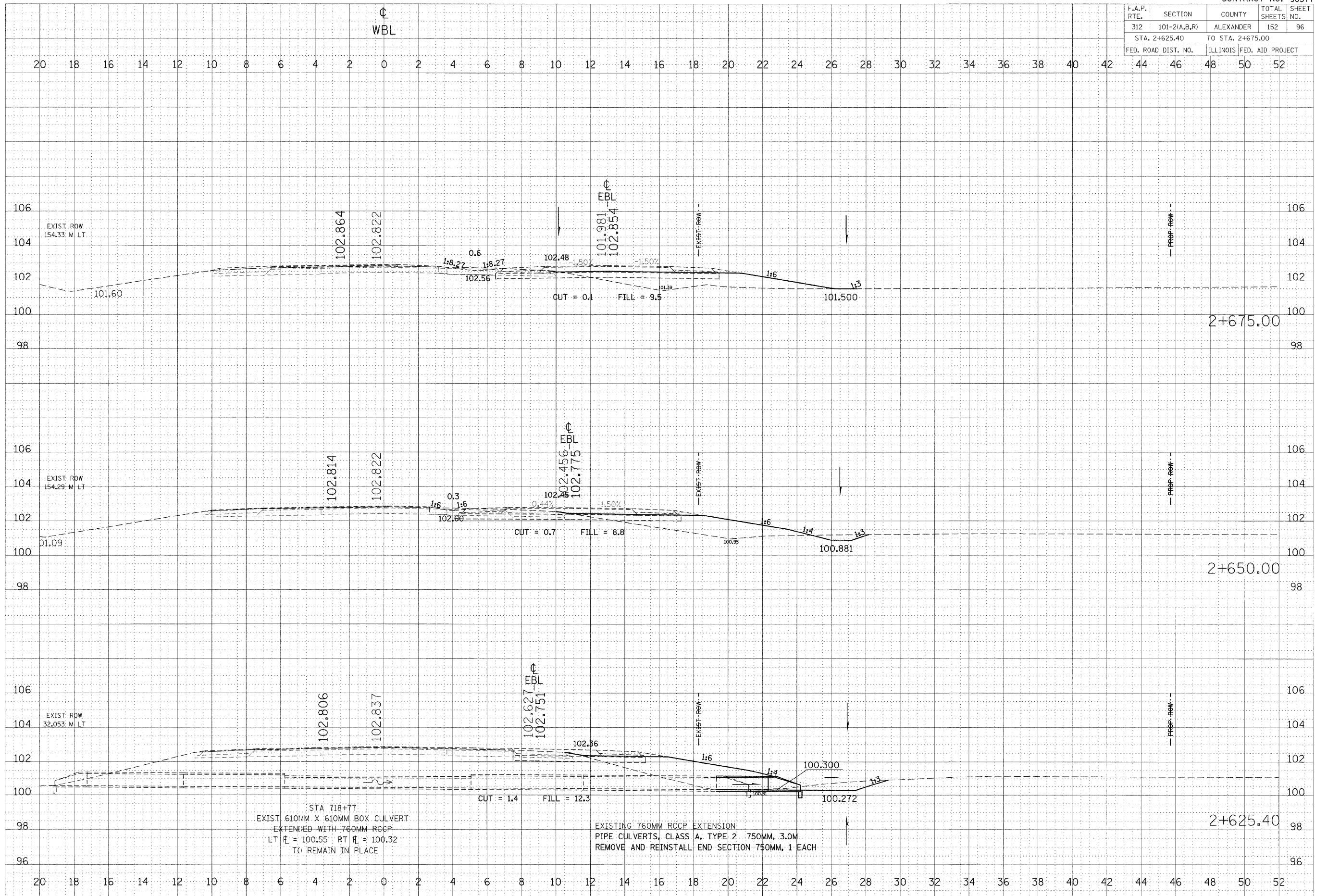
Elevation referenced to Bench Mark #105; Elevation=102.71 meters

To convert "N" values to "N60" multiply by 1.25

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208)
BBS, from 137 (Rev. 8-99)

SOIL BORING LOGS
F.A.P. RTE. 312 - SECTION 101B-1
ALEXANDER COUNTY
STATION 5+699.435
STRUCTURE NO. 002-2002

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	96
STA. 2+625.40			TO STA. 2+675.00	
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	



STA 718+77
 EXIST 610MM X 610MM BOX CULVERT
 EXTENDED WITH 760MM RCCP
 LT π = 100.55 RT π = 100.32
 TO REMAIN IN PLACE

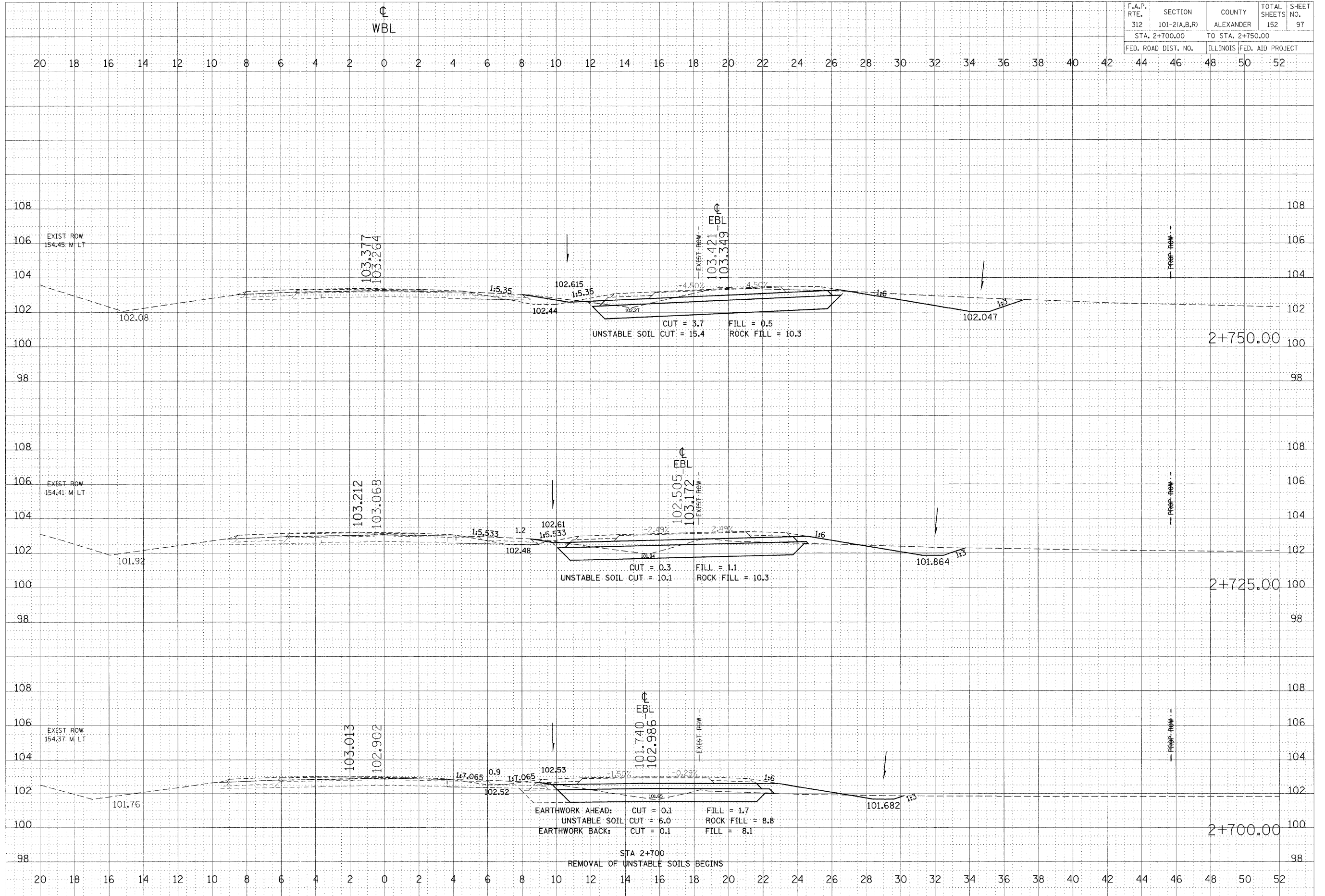
EXISTING 760MM RCCP EXTENSION
 PIPE CULVERTS, CLASS A, TYPE 2 750MM, 3.0M
 REMOVE AND REINSTALL END SECTION 750MM, 1 EACH

NO.	AREAS CHECKED	DATE	BY

NO.	AREAS CHECKED	DATE	BY

PLOT DATE = 10/27/2008
 FILE NAME = c:\pwworkspace\pwworkspace\1011\1011\1011.dwg
 PLOT SCALE = 1:2000000 m / M.
 USER NAME = jef@bentley.com

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	101-2(A,B,R)	ALEXANDER	152	97
STA. 2+700.00 TO STA. 2+750.00				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



DATE	BY	DATE

DATE	BY	DATE

PLOT DATE = 10/27/2008
 FILE NAME = c:\pwworkspace\pwworkspace\101-2(A,B,R)\101-2(A,B,R)146.dwg
 PLOT SCALE = 1:100000
 USER NAME = jrtwchd

