

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED
SURFACE TRANSPORTATION/RURAL PROGRAM (W/TARP)

MORGAN COUNTY
SECTION 05-00093-03-FP

PROJECT NO. RS-0611(109)
CH 19 (FAS 611)/LITERBERRY-PRENTICE RD
JOB NO. C-96-211-08

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
611	05-00093-03-FP	MORGAN	31	1

CONTRACT NO. 93535

REQUIRED STANDARDS

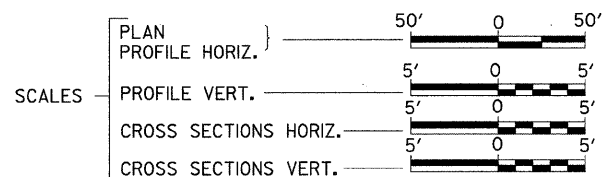
- 000001-05 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
- 280001-05 TEMPORARY EROSION CONTROL SYSTEMS
- 701001-02 OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
- 701006-03 OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
- 701011-02 OFF-RD MOVING OPERATIONS, 2L, 2W DAY ONLY
- 701201-03 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS \geq 45 MPH
- 701301-03 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701306-02 LANE CLOSURE, 2L, 2W SLOW MOVING OPERATIONS - DAY ONLY FOR SPEEDS \geq 45 MPH
- 701311-03 LANE CLOSURE, 2L, 2W MOVING OPERATIONS DAY ONLY
- 701326-03 LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS \geq 45 MPH
- 701901-01 TRAFFIC CONTROL DEVICES
- 780001-02 TYPICAL PAVEMENT MARKINGS
- BLR 21-8 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
- BLR 22-6 TYP. APPLIC. TCD (ROAD CLOSED TO THRU TRAFFIC)
- BLR 24-2 MAILBOX TURNOUT FOR LOCAL ROADS

INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES, LEGEND
- 3 SUMMARY OF QUANTITIES
- 4 TYPICAL SECTIONS
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- 7-11 PLAN & PROFILE SHEETS
- 12-13 EROSION CONTROL PLAN & PROFILE SHEETS
- 14-15 SPECIAL DETAILS
- 16-31 CROSS SECTION SHEETS

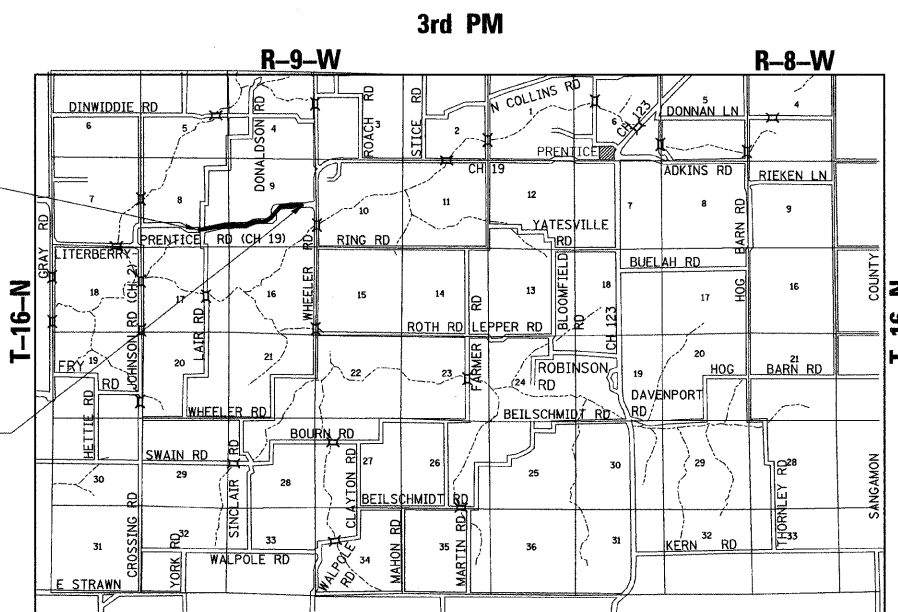
DESCRIPTION OF WORK

THIS PROJECT CONSISTS OF RESURFACING, REALIGNMENT AND RECONSTRUCTION OF LITERBERRY-PRENTICE ROAD (CH 19). THE PROPOSED SURFACE CONSISTS OF 1 1/2" HOT-MIX ASPHALT SURFACE COURSE OVER A 2 1/2" HOT-MIX ASPHALT BINDER COURSE. WITHIN THE LIMITS OF THE RECONSTRUCTED AREAS, SEVERAL PIPE CULVERT LOCATIONS ARE TO BE REMOVED AND REPLACED. ALSO INCLUDED ARE AGGREGATE SHOULDERS, AGGREGATE BASE COURSE, EARTH EXCAVATION, FURNISHED EXCAVATION, PAVEMENT MARKING, AND OTHER ASSOCIATED WORK.



SEC 05-00093-03-FP
BEGINS
STATION 215+98.97

SEC 05-00093-03-FP
ENDS
STATION 284+06.84



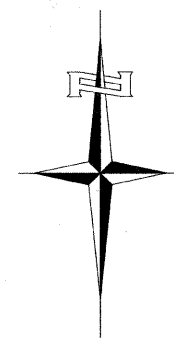
LOCATION MAP



TOTAL LENGTH OF PROJECT = 6,807.87 LINEAL FEET = 1.289 MILES
NET LENGTH OF PROJECT = 6,807.87 LINEAL FEET = 1.289 MILES

DESIGN DESIGNATION
FAS 611
RURAL COLLECTOR
% PV = 88
% SU = 7
% MU = 5

ADT (2025): 550
DESIGN SPEED: 50 MPH
3R GUIDELINES



TELEPHONE WATER & SEWER GAS & ELECTRIC
VERIZON NORTH MORGAN WATER COOP MENARD ELECTRIC COOP
300 W BEECHER 7 QUAIL LANE 122 SOUTH 6TH STREET
JACKSONVILLE, ILLINOIS JACKSONVILLE, ILLINOIS PETERSBURG, ILLINOIS
309-454-1470 217-245-1104 217-632-1104

FOR UTILITY LOCATION INFORMATION FOR EXCAVATION
CALL J.U.L.I.E. BEFORE YOU DIG
1-800-892-0123 OR 811

CONTRACT NO. 93535



RR 2/3/10
Exp 11/30/11

APPROVED	<i>Murphy</i>	2010
	<i>Ch. Hines</i> MORGAN COUNTY ENGINEER	
PASSED	<i>March 18</i>	2010
	<i>Terrence H. Fountain</i> MAA DISTRICT ENGINEER OF LOCAL ROADS & STREETS	
PASSED	<i>March 17</i>	2010
	<i>Ron Ackerman</i> DISTRICT CONSTRUCTION ENGINEER	
RELEASED FOR BID BASED ON LIMITED REVIEW	<i>March 18</i>	2010
	<i>Roger L. Driskell</i> MAA DEPUTY DIRECTOR OF HIGHWAYS, REGION FOUR ENGINEER STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	

Hutchison Engineering, Inc.
JACKSONVILLE ILLINOIS
2010 JOB#2839

GENERAL NOTES

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS IMPROVEMENT.

EXISTING CONCRETE SIGN BASES AND OTHER MISCELLANEOUS CONCRETE NOT SPECIFICALLY SHOWN ON THE PLANS INTERFERING WITH PROPOSED CONSTRUCTION SHALL BE REMOVED. COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

TRAFFIC CONTROL SIGNS REMOVED MUST BE RESET AT THEIR PERMANENT LOCATIONS IN A WORKMANLIKE MANNER AND VISIBLE TO TRAFFIC ON THE ROADWAY. THESE SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE 'MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS', LATEST EDITION. THE COST OF SUCH WORK SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING SUBGRADE AND BASE DENSITY FOR THE PROPOSED ROADWAY(S).

ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

PLAN QUANTITIES FOR TREE REMOVAL HAVE BEEN BASED ON ALL TREES WITHIN THE LIMITS OF CONSTRUCTION. THIS QUANTITY MAY BE REVISED DURING CONSTRUCTION, AT THE DIRECTION OF THE ENGINEER, BY DELETING FROM THE TREE REMOVAL QUANTITIES, SUCH TREES THAT DO NOT INTERFERE WITH THE PROPOSED CONSTRUCTION.

IN AREAS WHERE EXISTING ROADWAY IS TO BE DEGRADED, ANY MATERIAL DEEMED SUITABLE FOR USE SHALL BE AT THE DISCRETION OF THE ENGINEER. ALL RUBBLIZING, DISPOSAL, & RESHAPING WILL NOT BE PAID FOR SEPERATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

ALL WASTE OR UNDESIRABLE MATERIAL AS IDENTIFIED BY THE ENGINEER SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY AT NO ADDITIONAL COST TO THE DEPARTMENT.

ALL EXISTING PRIVATELY OWNED UTILITIES REQUIRING ADJUSTMENT WILL BE MADE BY THE UTILITY COMPANY INVOLVED. WHERE NO PROVISIONS HAVE BEEN MADE FOR ADJUSTMENTS ON THE PLANS, NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO DELAYS OR INCONVENIENCES CAUSED BY THE SAID UTILITY ADJUSTMENTS.

THE PROFILE GRADE ELEVATIONS SHOWN ON THE PLAN AND PROFILE SHEETS AND IN THE STATION CROSS SECTIONS ARE TO THE TOP OF THE FINISHED SURFACE.

ALL EXISTING DRAINAGE STRUCTURES NOT BEING REMOVED BY THE CONTRACTOR THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED AT NO ADDITIONAL COST TO THE DEPARTMENT.

ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON THE PLANS REPRESENTS THE BEST KNOWLEDGE OF THE COUNTY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY AS DETAILED IN SECTION 563 OF THE STANDARD SPECIFICATIONS, TO VERIFY LOCATIONS OF UNDERGROUND INSTALLATIONS BEFORE STARTING CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL INDEMNIFY THE COUNTY, ITS OFFICERS AND EMPLOYEES AGAINST ALL CLAIMS DUE TO DAMAGE TO CORPORATE OR PRIVATE PROPERTY RESULTING FROM HIS CONSTRUCTION OPERATIONS AS DESCRIBED IN ARTICLES 107.20 AND 107.26 OF THE STANDARD SPECIFICATIONS.

THE CONTRACTOR MAY BE REQUIRED TO CONDUCT SOME OF HIS GRADING AND TRENCHING OPERATIONS AROUND TRANSMISSION POLES AND UNDER TRANSMISSION LINES, THE ADDED COST OF SO DOING SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND PRESERVE PROPERTY MARKERS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT, HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

ALL ELEVATIONS SHOWN REFER TO U.S.G.S. MEAN REA LEVEL DATUM.

WHEREVER IN THESE PLANS A REFERENCE IS MADE TO THE "STANDARD SPECIFICATIONS", IT IS UNDERSTOOD TO INCLUDE THE "SUPPLEMENTAL SPECIFICATIONS" INCLUDED IN THE PROPOSAL.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS PROJECT, SPECIFICALLY AS THEY RELATE TO THE LUMP SUM PAY ITEMS.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE(S)	HMA SURF CSE	HMA BINDER CSE
AC/PG	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4% @N50	4% @N50
MIX COMPOSITION (GRADATION MIXTURE)	IL-9.5 OR 12.5	IL-19.0
FRICTION AGGREGATE	MIX "C"	N/A

LEGEND

	PROPOSED SPECIAL DITCH
	PROPOSED STANDARD DITCH
	SPECIAL DITCH PROFILE LT
	SPECIAL DITCH PROFILE RT
TBR	TO BE REMOVED
	RIPRAP AREA
	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
	EXISTING ROADWAY TO BE RUBBLIZED AND DEGRADED

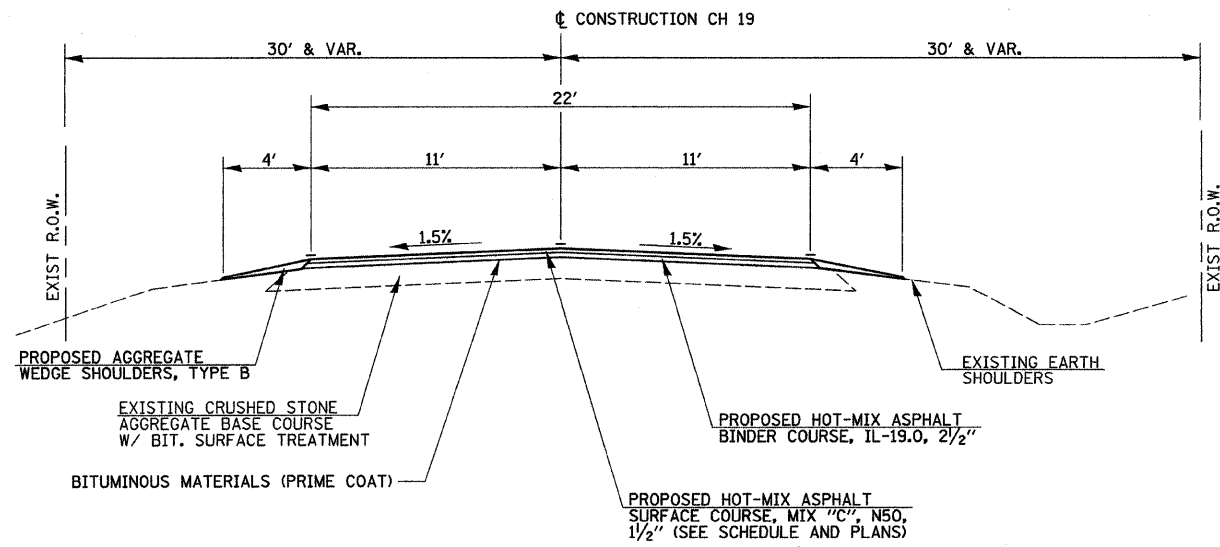
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PLOT SCALE = 1/8" = 1' / IN.	CHECKED - JRB	REVISED -	SCALE: N/A		SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	CONTRACT NO. 03595					
PLOT DATE = 2/26/2010	DATE -	REVISED -	ILLINOIS FED. AID PROJECT										

SUMMARY OF QUANTITIES			
CODE NO.	ITEM	UNIT	TOTAL QUANTITY
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	81
20200100	EARTH EXCAVATION	CU YD	7,823
20400800	FURNISHED EXCAVATION	CU YD	9,396
20800150	TRENCH BACKFILL	CU YD	494
• 25001000	SEEDING, CLASS 2 (SPECIAL)	ACRE	5.6
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	560
• 28000305	TEMPORARY DITCH CHECKS	FOOT	932
28000400	PERIMETER EROSION BARRIER	FOOT	6,808
28000500	INLET AND PIPE PROTECTION	EACH	7
28100207	STONE RIPRAP, CLASS A4	TON	32
• 35100100	AGGREGATE BASE COURSE, TYPE A	TON	5,506
• 40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	107
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	3,745
40600300	AGGREGATE (PRIME COAT)	TON	11
40600895	CONSTRUCTION TEST STRIP	EACH	2
40600982	HOT-MIX ASPHALT SURFACE REMOVAL, BUTT JOINT	SQ YD	418
40600990	TEMPORARY RAMP	SQ YD	49
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	3,221
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	1,429
48101200	AGGREGATE SHOULDERS, TYPE B	TON	1,668
• 50105220	PIPE CULVERT REMOVAL	FOOT	273
50300225	CONCRETE STRUCTURES	CU YD	3.4
50800105	REINFORCEMENT BARS	POUND	216
50901760	PIPE HANDRAIL	FOOT	18
542A1069	PIPE CULVERTS, CLASS A, TYPE 2 24"	FOOT	124
542A1075	PIPE CULVERTS, CLASS A, TYPE 2 30"	FOOT	120
542A1921	PIPE CULVERTS, CLASS A, TYPE 3 36"	FOOT	100
542D1063	PIPE CULVERTS, CLASS D, TYPE 2 18"	FOOT	72
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	4
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	4
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	1
• 61139900	STORM SEWER, SPECIAL 6"	FOOT	200
• 61140000	STORM SEWER, SPECIAL 8"	FOOT	200
• 61140200	STORM SEWER, SPECIAL 12"	FOOT	200
67100100	MOBILIZATION	L SUM	1
• 70103700	TRAFFIC CONTROL COMPLETE	L SUM	1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	1,362
70300230	TEMPORARY PAVEMENT MARKING - LINE 5"	FOOT	17,019
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	450
△ 78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	17,019
• Z0013798	CONSTRUCTION LAYOUT	L SUM	1

• SEE SPECIAL PROVISIONS △ SPECIALTY ITEMS

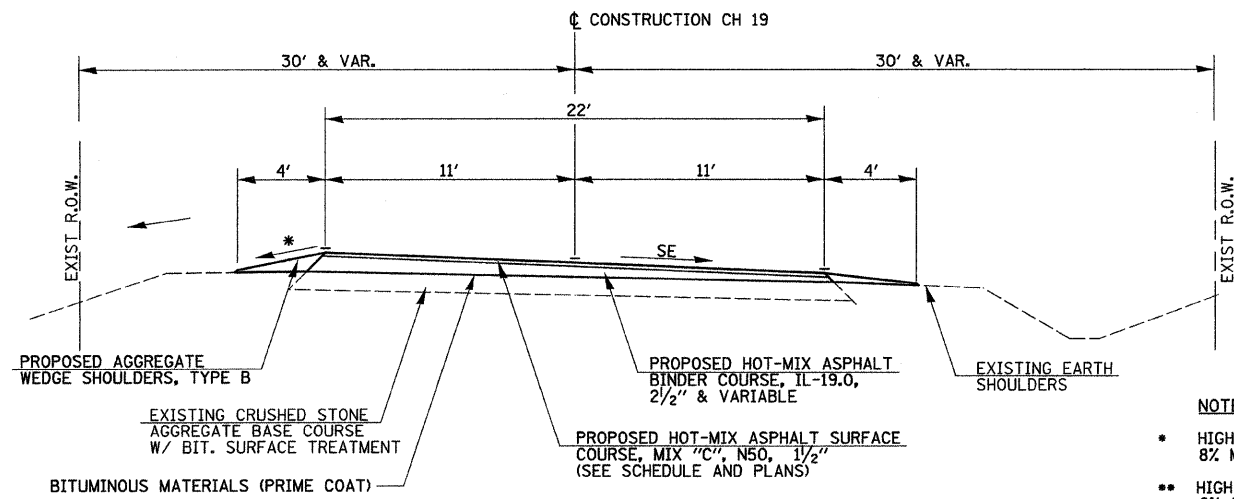
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PLOT SCALE = 50,0000' / IN.	CHECKED - JRB	REVISED -	SCALE: N/A		SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	CONTRACT NO. 3535			
PLOT DATE = 2/26/2010	DATE - 1/18/2010	REVISED -					ILLINOIS FED. AID PROJECT				



PROPOSED TYPICAL RESURFACING SECTION

STA 215+98.97 TO STA 216+78.97
 STA 222+98.21 TO STA 227+35.86
 STA 233+47.10 TO STA 242+18.27
 STA 274+37.02 TO STA 276+96.05
 STA 281+95.99 TO STA 284+06.84



PROPOSED TYPICAL RESURFACING SUPERELEVATION SECTION

CURVE LEFT
 STA 216+78.97 TO STA 218+54.97 (SE TRANSITION, NC TO 6.5%)
 STA 218+54.97 TO STA 221+22.21 (FULL 6.5% SE)
 STA 221+22.21 TO STA 222+98.21 (SE TRANSITION, 6.5% TO NC)

CURVE RIGHT
 STA 227+35.86 TO STA 229+11.86 (SE TRANSITION, NC TO 6.5%)
 STA 229+11.86 TO STA 231+71.10 (FULL 6.5% SE)
 STA 231+71.10 TO STA 233+47.10 (SE TRANSITION, 6.5% TO NC)

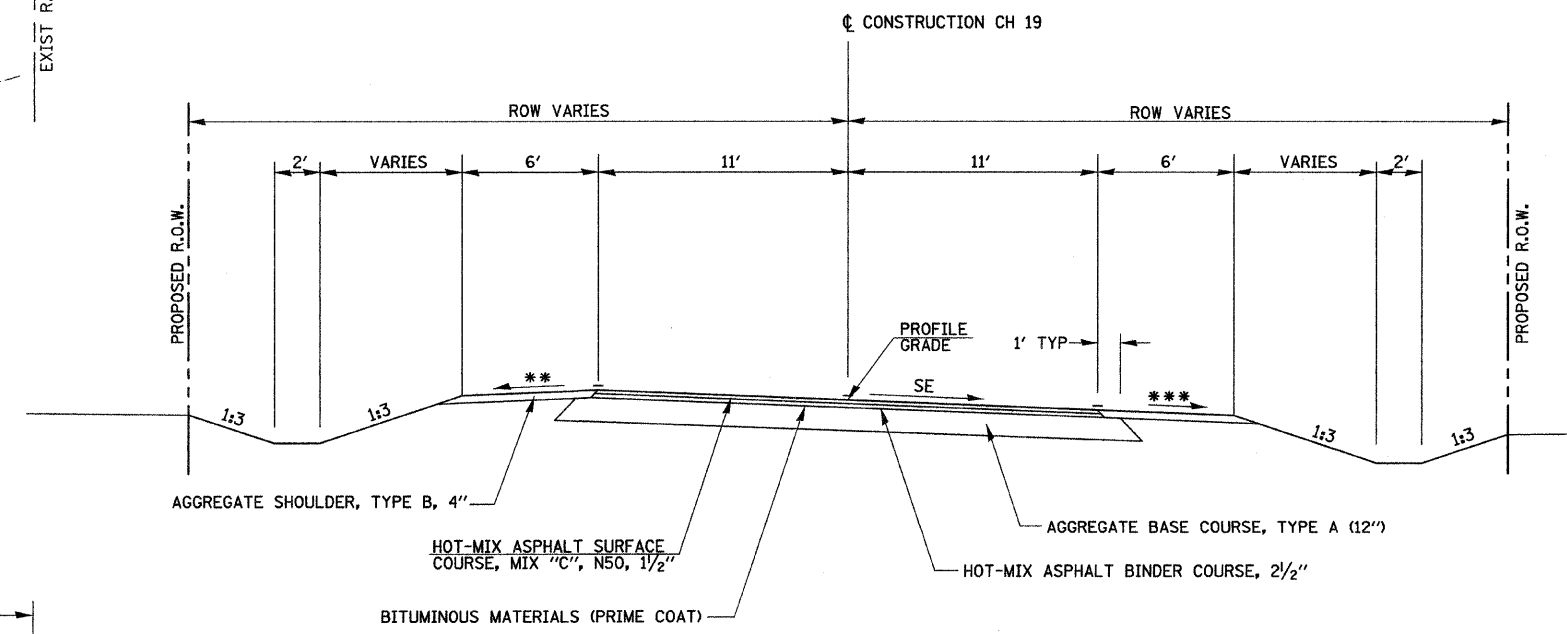
CURVE LEFT
 STA 242+18.27 TO STA 243+68.61 (SE TRANSITION, NC TO 5.33%)

CURVE RIGHT
 STA 272+86.69 TO STA 274+37.02 (SE TRANSITION, 5.33% TO NC)

CURVE RIGHT
 STA 276+96.05 TO STA 278+17.05 (SE TRANSITION, NC TO 4%)
 STA 278+17.05 TO STA 280+74.99 (FULL 4% SE)
 STA 280+74.99 TO STA 281+95.99 (SE TRANSITION, 4% TO NC)

NOTES:

- HIGH SIDE
8% MAX BREAKOVER
- HIGH SIDE
6% & VARIABLE, 8% MAX BREAKOVER (8.5% MAX BREAKOVER IN FULL SE).
- LOW SIDE
6% OR SE, WHICHEVER IS GREATER.



PROPOSED TYPICAL RECONSTRUCTION SUPERELEVATION SECTION

CURVE LEFT
 STA 243+68.61 TO STA 244+27.27 (SE TRANSITION, 5.33% TO 8%)
 STA 244+27.27 TO STA 246+72.24 (FULL 8% SE)
 STA 246+72.24 TO STA 248+48.24 (SE TRANSITION, 8% TO 0%)

CURVE RIGHT
 STA 248+48.24 TO STA 250+24.24 (SE TRANSITION, 0% TO 8%)
 STA 250+24.24 TO STA 252+65.14 (FULL 8% SE)
 STA 252+65.14 TO STA 254+41.14 (SE TRANSITION, 8% TO 0%)

CURVE LEFT
 STA 254+41.14 TO STA 256+17.14 (SE TRANSITION, 0% TO 8%)
 STA 256+17.14 TO STA 262+85.90 (FULL 8% SE)
 STA 262+85.90 TO STA 264+61.90 (SE TRANSITION, 8% TO 0%)

CURVE RIGHT
 STA 264+61.90 TO STA 266+37.90 (SE TRANSITION, 0% TO 8%)
 STA 266+37.90 TO STA 272+28.02 (FULL 8% SE)
 STA 272+28.02 TO STA 272+86.69 (SE TRANSITION, 8% TO 5.33%)

PAVEMENT STRUCTURAL DESIGN INFORMATION

STRUCTURAL DESIGN TRAFFIC: YEAR 2020
 PV=283 SU=23 MU=17

PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:
 P=88% S=7% M=5%

OVERLAY SECTION:

CLASS III ROAD TF = 0.09 D_t(REQ.) = 3.61
 MINIMUM SOIL SUPPORT: IBR = 5

PAVEMENT STRUCTURE MATERIALS:
 SURFACE COURSE TYPE: HOT-MIX ASPHALT, 2 1/2", a₁ = 0.36
 BINDER COURSE TYPE: HOT-MIX ASPHALT BINDER COURSE, 1 1/2", a₂ = 0.36
 D_t(PROVIDED) = 4

CONSTRUCTION SECTION:

CLASS III ROAD TF = 0.09 SN (REQ.) = 2.85
 MINIMUM SOIL SUPPORT: IBR = 3

PAVEMENT STRUCTURE MATERIALS:
 SURFACE COURSE TYPE: HOT-MIX ASPHALT, 1 1/2", a₁ = 0.36
 BINDER COURSE TYPE: HOT-MIX ASPHALT BINDER COURSE, 2 1/2", a₂ = 0.36
 SUB-BASE COURSE TYPE: GRANULAR MATERIAL, TYPE A, 12", a₃ = 0.13
 SN (PROVIDED) = 3.0

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		CHECKED - JRB	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**LITERBERRY-PRENTICE ROAD (CH 19)
 TYPICAL SECTIONS**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE. 611	SECTION 05-00093-03-FP	COUNTY MORGAN	TOTAL SHEETS 31	SHEET NO. 4
CONTRACT NO. 93335			ILLINOIS FED. AID PROJECT	

EARTHWORK SCHEDULE										
LOCATION	DESCRIPTION		1		2		3		6	7
			THEORETICAL		ADJUSTED EARTHWORK		EXCESS (BORROW)	CUMULATIVE EXCESS (BORROW)		
			CUT	FILL	CUT	FILL				
CU YD			CU YD							
CH 19	242+00	TO 252+00	1954	1147	1954	1147	1433		521	(136)
	252+00	TO 262+00	2431	9948	2431	9948	12434		(10003)	(10068)
	262+00	TO 273+00	3437	4560	3437	4560	5700		(2263)	(12331)
TOTAL			7823	15654	7823	15654	19568		(11745)	

NOTES:

A MASS DIAGRAM FOR THE EARTHWORK IS NOT INCLUDED IN THESE PLANS AND WILL NOT BE AVAILABLE TO THE CONTRACTOR UPON REQUEST. THE EARTHWORK SCHEDULE HAS BEEN INCLUDED IN THESE PLANS TO TAKE THE PLACE OF THE NEED FOR A MASS DIAGRAM. THE SCHEDULE GIVES QUANTITIES IN "COLUMN 6" FOR EXCESS EXCAVATION OR BORROW REQUIRED IN EACH SPECIFIED AREA ALONG THE LIMITS OF THE PROJECT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE REQUIRED HAUL DISTANCES AND QUANTITIES FROM THE INFORMATION SHOWN.

THE QUANTITIES SHOWN IN THE SCHEDULE INCLUDE ALL MAINLINE, SIDE ROAD, AND ENTRANCE QUANTITIES IN EACH SPECIFIED AREA.

ALL TOPSOIL NECESSARY FOR PLACEMENT ON THIS PROJECT SHALL BE TAKEN FROM CUT AREAS WITHIN THE CONSTRUCTION LIMITS.

A SHRINKAGE FACTOR OF 20% WAS USED TO DETERMINE THE EXCESS AND BORROW QUANTITIES. SHRINKAGE FACTOR = 1.00/(1.00-0.20) = 1.0/0.80 = 1.25

COLUMN 5 = COLUMN 4 x 1.25 (SHRINKAGE FACTOR)

COLUMN 6 = COLUMN 3 - COLUMN 5

FURNISHED EXCAVATION = COLUMN 6 /1.25

(PAY ITEM QUANTITY) = 9,396 CU YD

EARTH EXCAVATION = COLUMN 3

(PAY ITEM QUANTITY) = 7,823 CU YD

ENTRANCE SCHEDULE					
LOCATION	TYPE	SIDE	AGGREGATE SURFACE COURSE, TYPE B	HOT-MIX ASPHALT SURFACE COURSE, MIX 'C', N50	AGGREGATE BASE COURSE, TYPE A
216+11.0	PE	RT	3.4		
217+40.0	PE	RT	3.0		
223+00.00	MBTO	RT		1.2	
223+56.4	PE	LT	10.4		
224+95.4	FE	LT	3.3		
227+10.3	FE	RT	3.0		
234+36.2	FE	RT	3.0		
241+15.3	FE	RT	2.9		
241+14.0	FE	LT	3.0		
247+74.0	FE	RT	6.6		
251+55.0	FE	RT	6.8		
256+70.0	MBTO	RT		2.1	
256+80.0	FE	LT	6.6		
256+80.0	PE	RT	16.5		11.2
270+65.0	PE	LT	21.0		28.0
270+65.0	FE	RT	6.7		
270+75.0	MBTO	LT		2.4	
273+00.0	FE	LT	6.7		
280+06.0	FE	LT	2.1		
280+10.1	FE	RT	2.1		
PROJECT TOTAL			107.0	5.7	39.2
USE			107	6	40

PIPE CULVERT REMOVAL				
STATION	SIDE	DIAMETER	TYPE	FOOT
247+74	RT	15"	PCC	38.0
248+00	RT & LT	18"	PCC	46.8
251+58	RT	15"	CMP	24.0
254+50	RT & LT	36"	PCC	53.4
260+17	RT	18"	PCC	38.0
272+30	RT & LT	18"	PCC	46.3
272+49	LT	15"	CMP	26.0
TOTALS				272.5
USE				273

TREE REMOVAL (OVER 15 UNITS IN DIAMETER)			
STATION	SIDE	OFFSET	UNITS DIAMETER
246+42	RT	56'	54.0
253+82	RT	48'	27.0
TOTALS			81.0
USE			81

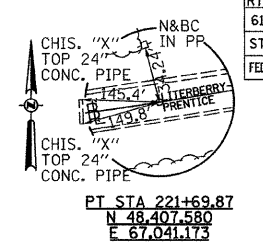
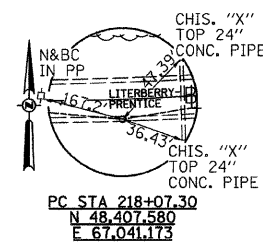
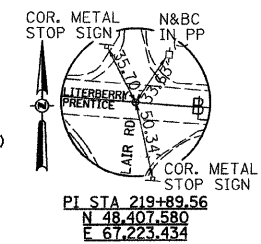
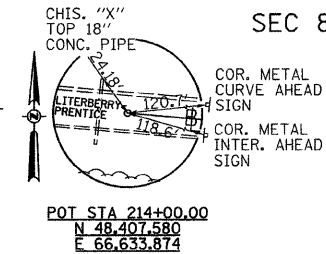
PIPE CULVERT SCHEDULE											
STATION	SIDE	TYPE	CLASS D	CLASS A			P.R.C.F. END SECTIONS			CONCRETE STRUCTURES	TRENCH BACKFILL
			18" TYPE 2	TY 2 24"	TY 2 30"	TY 3 36"	24"	30"	36"	CU YD	CU YD
			FOOT			EACH					
247+74	RT	PIPE CULVERT	38								
248+00	RT & LT	PIPE CULVERT		48				2		26.3	
254+50	RT & LT	PIPE CULVERT			100				1	243.2	
260+15	RT & LT	PIPE CULVERT		76				2		109.3	
268+30	RT & LT	PIPE CULVERT			72			2		98.2	
272+30	RT & LT	PIPE CULVERT		48				2		16.9	
273+00	LT	PIPE CULVERT	34								
TOTALS			72	124	120	100	4	4	1	1	493.9
USE			72	124	120	100	4	4	1	1	494

STONE RIPRAP, CLASS A4				
STATION TO STATION	SIDE	LENGTH FT	WIDTH FT	TON
247+96.25 TO 248+03.75	RT	8.4	8.5	4.0
254+45.50 TO 254+54.50	RT	14.4	9.0	7.2
260+11.00 TO 260+19.00	RT	16.1	8.0	7.2
268+26.25 TO 268+33.75	RT	16.3	8.5	7.7
272+26.01 TO 272+34.01	RT	12.9	8.0	5.7
TOTAL				31.8
USE				32

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
611	05-00093-03-FP	MORGAN	31	7
STA. 210+00		TO STA. 225+00		
FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT				

SEC 8, T 16 N, R 9 W, 3RD PM

SE 1/4, SEC 8



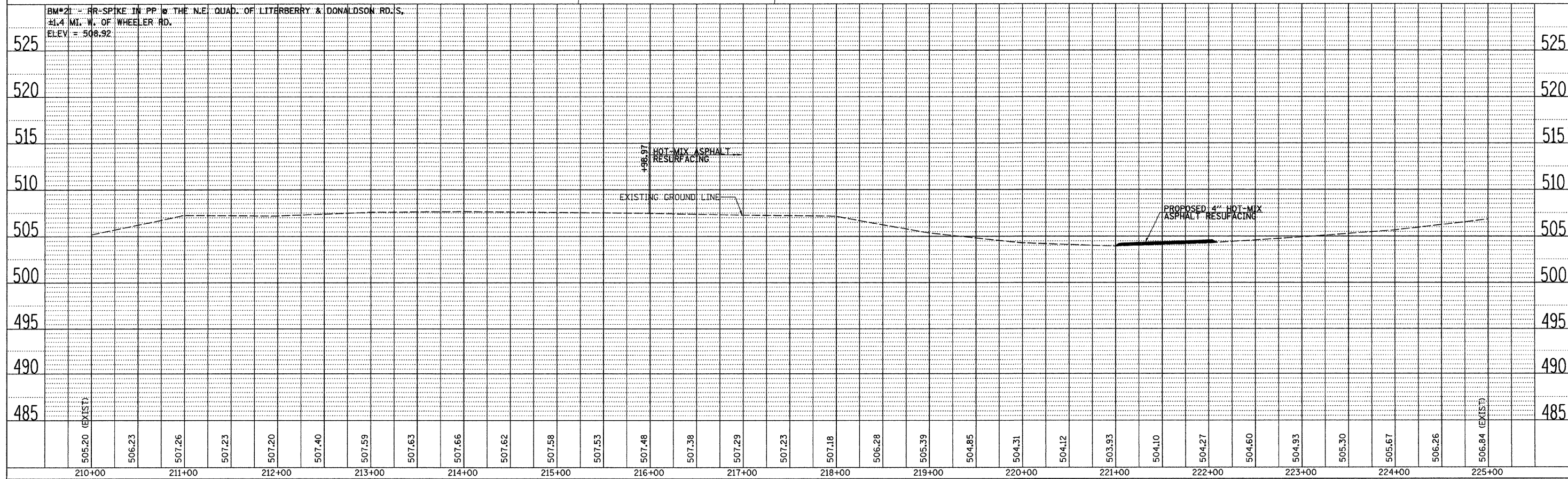
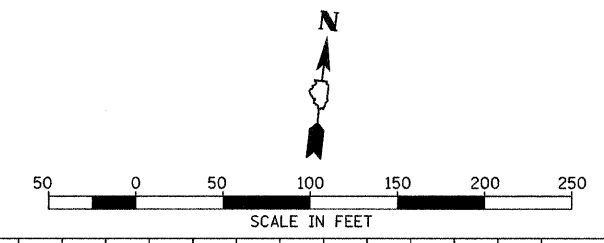
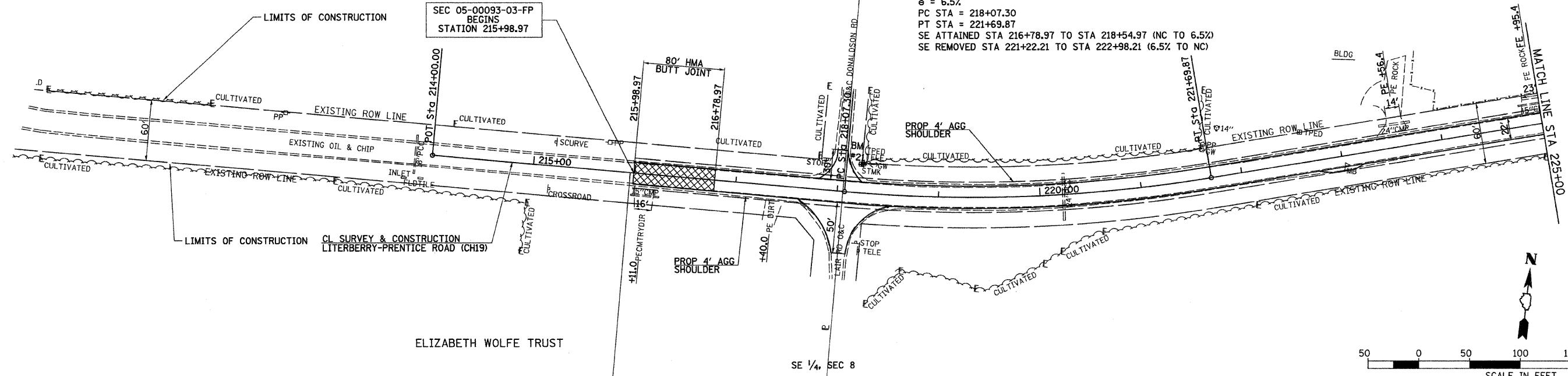
PROP CURVE CH19-8
PI STA = 219+89.56
 $\Delta = 14^\circ 30' 00''$ (LT)
D = 3' 59' 57"
R = 1,432.69'
T = 182.26'
L = 362.57'
E = 11.55'
e = 6.5%
PC STA = 218+07.30
PT STA = 221+69.87
SE ATTAINED STA 216+78.97 TO STA 218+54.97 (NC TO 6.5%)
SE REMOVED STA 221+22.21 TO STA 222+98.21 (6.5% TO NC)

DATE	BY

PLAN
REVISIONS
DATE
BY
NOTE BOOK NO.
DRAWING NO.
FILE NAME

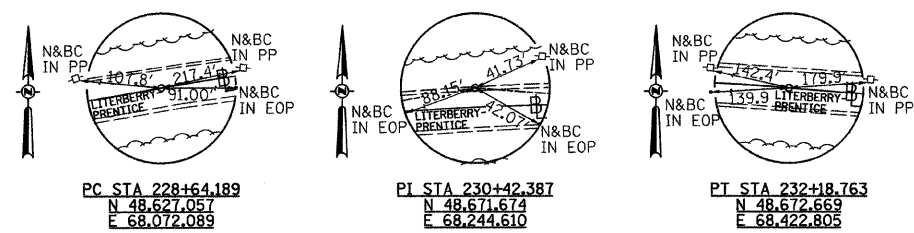
DATE	BY

PROFILE
REVISIONS
DATE
BY
NOTE BOOK NO.
DRAWING NO.
STRUCTURE NOTATION



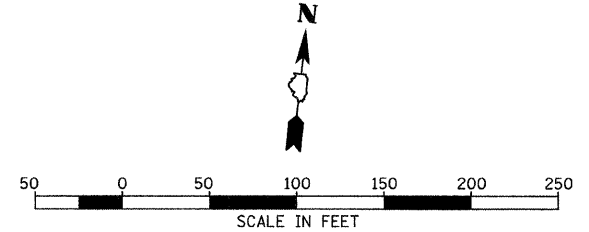
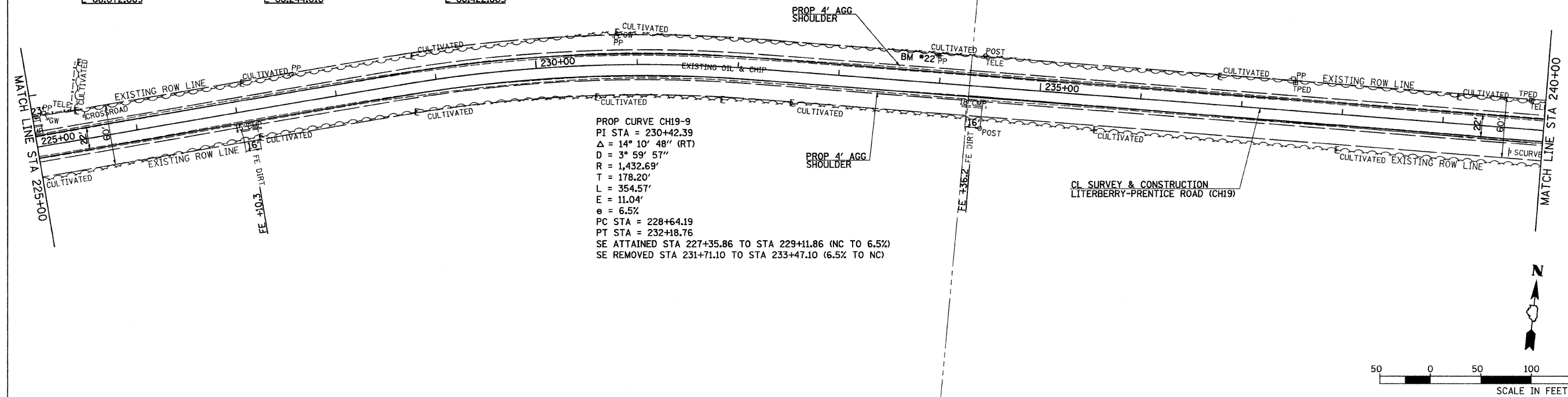
LITERBERRY-PRENTICE ROAD (CH 19), PLAN AND PROFILES, STA 210+00 TO STA 225+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
611	05-00093-03-FP	MORGAN	31	8
STA. 225+00		TO STA. 240+00		
FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT				



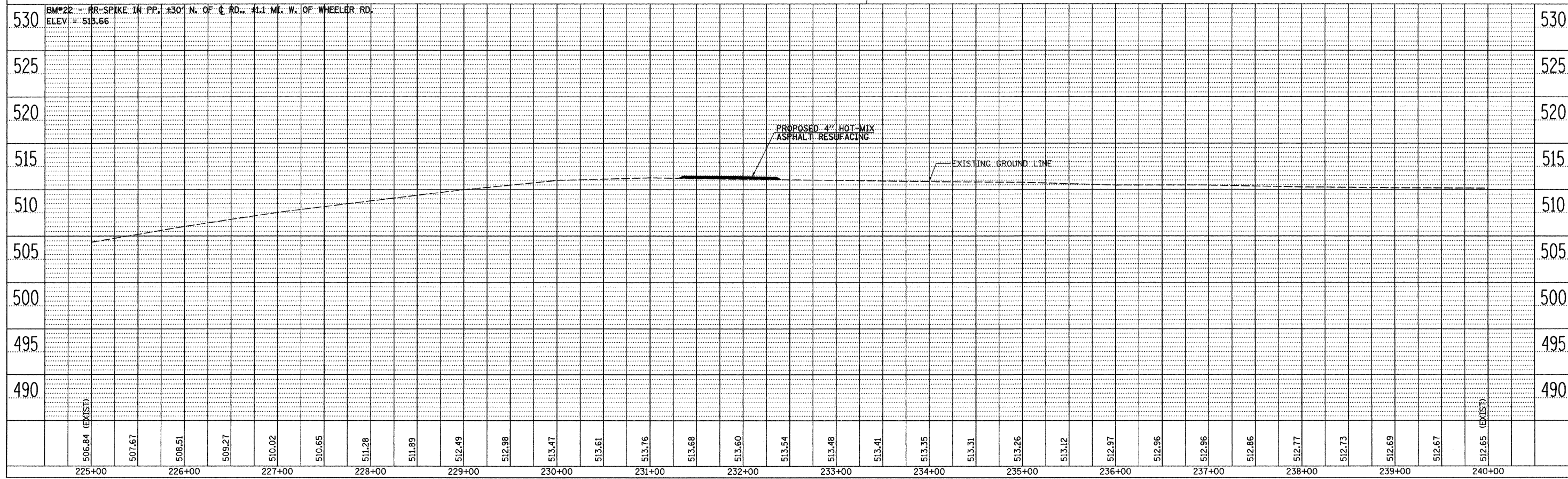
DATE	BY

PLAN
 REVISIONS
 PLOTTED
 CHECKED
 DATE
 FILE NAME
 NO.



DATE	BY

PROFILE
 REVISIONS
 PLOTTED
 CHECKED
 DATE
 FILE NAME
 NO.

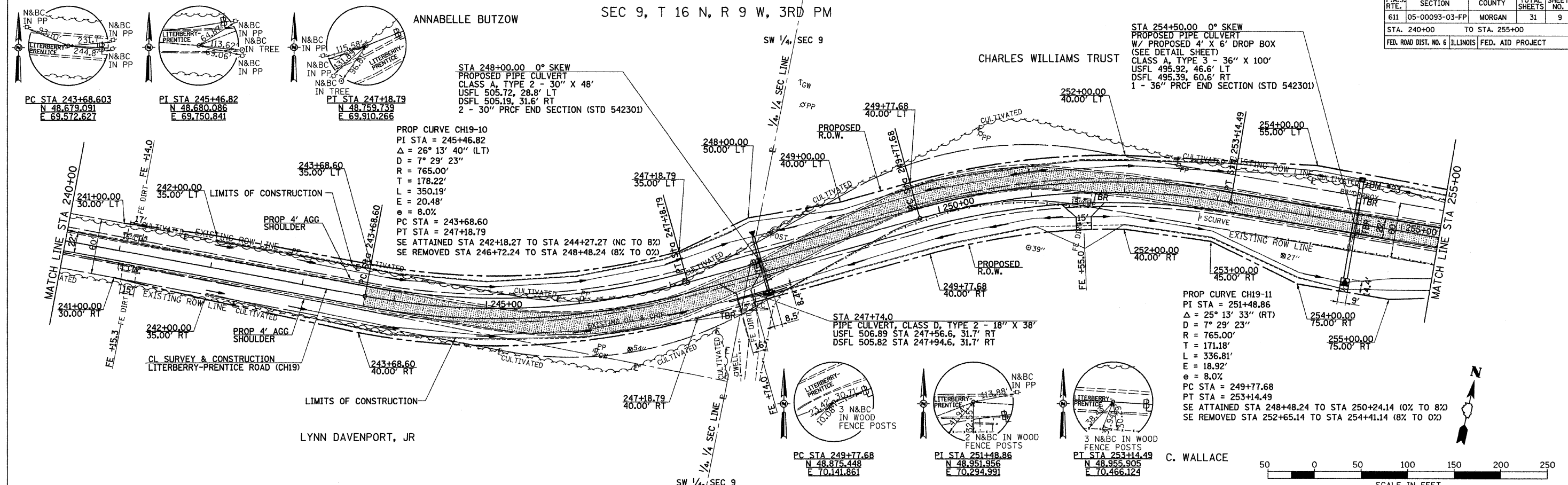


LITERBERRY-PRENTICE ROAD (CH 19), PLAN AND PROFILES, STA 225+00 TO STA 240+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
611	05-00093-03-FP	MORGAN	31	9

STA. 240+00 TO STA. 255+00
 FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT

ANNABELLE BUTZOW SEC 9, T 16 N, R 9 W, 3RD PM



PLAN

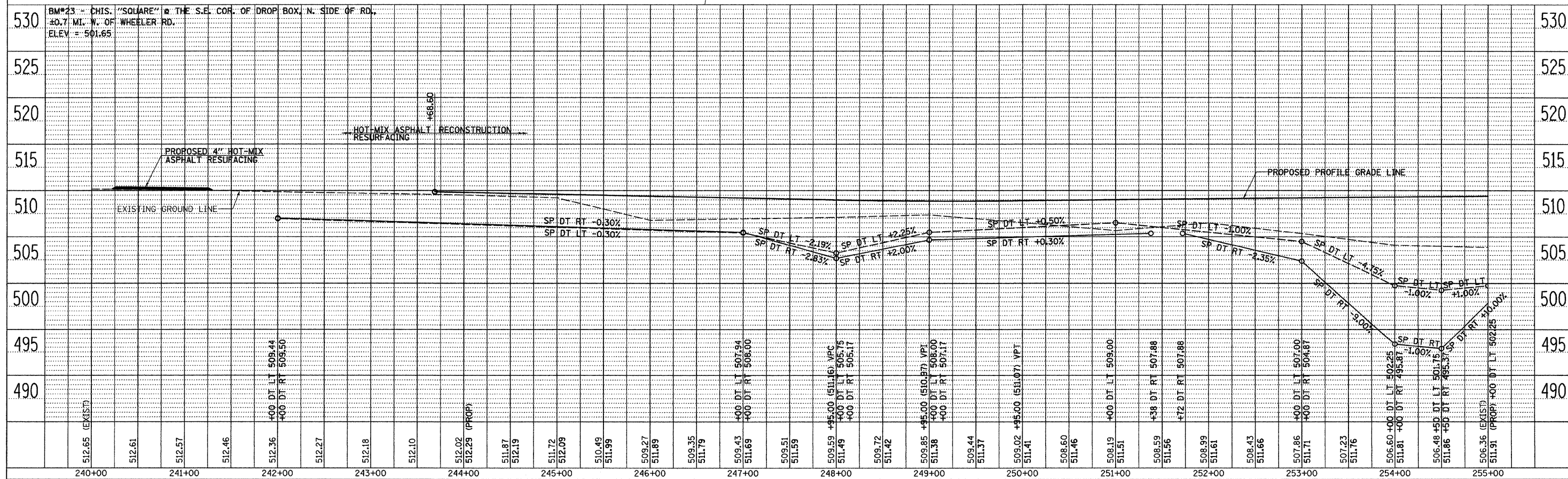
DATE	BY

REVISIONS
 1. PLOTTED
 2. CHECKED
 3. FILED

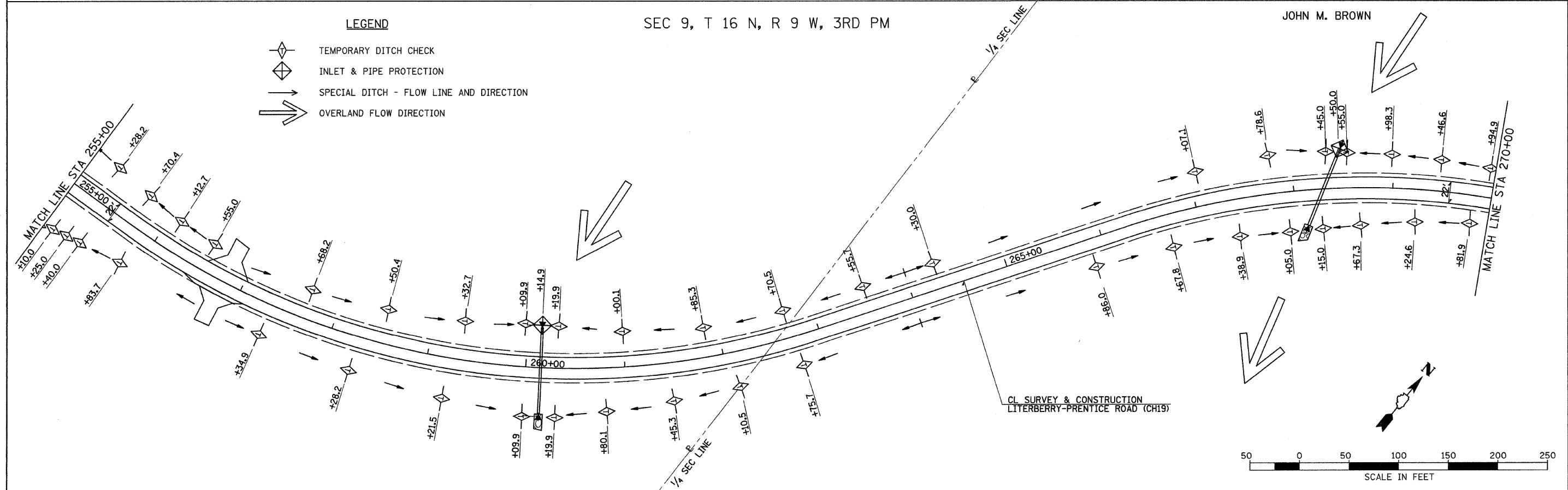
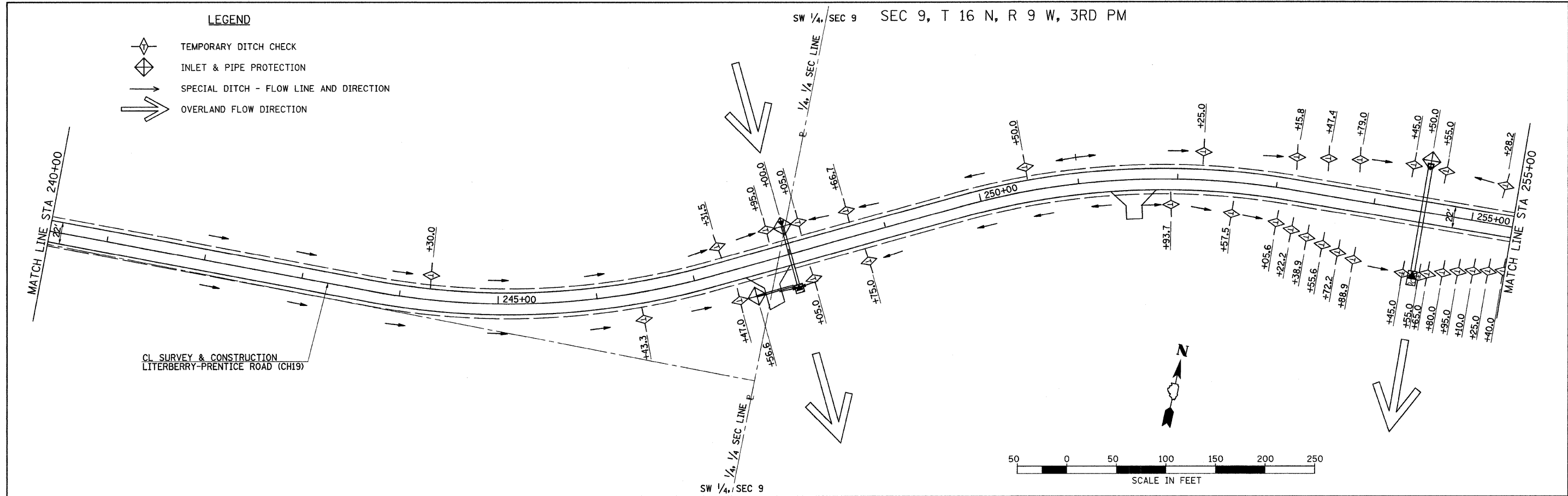
PROFILE

DATE	BY

REVISIONS
 1. PLOTTED
 2. CHECKED
 3. FILED







LITERBERRY-PRENTICE ROAD (CH 19), PLAN AND PROFILES, STA 240+00 TO STA 255+00

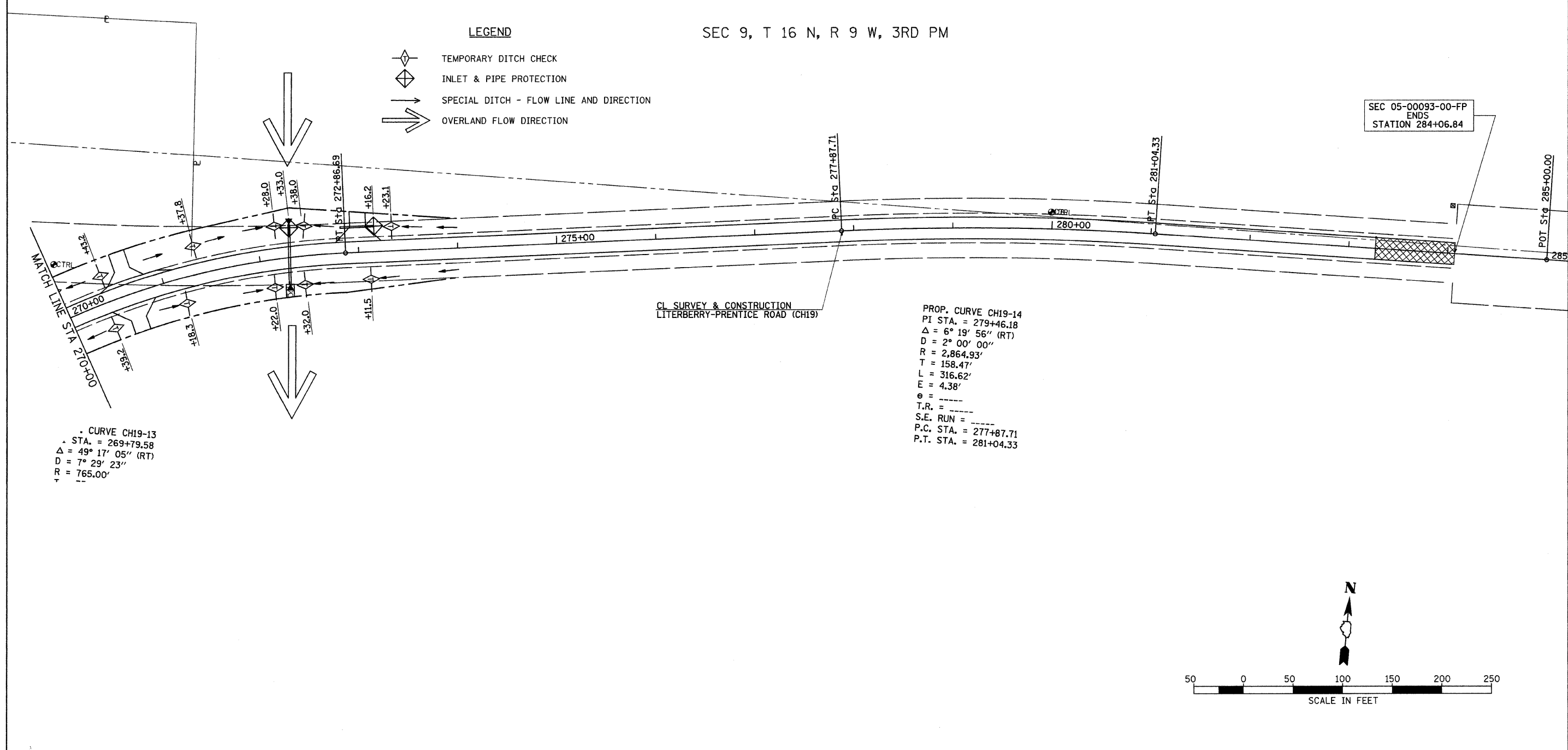


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PLOT SCALE = 50.0000' / IN.					SCALE: 1" = 50'-0" SHEET NO. 1 OF 2 SHEETS STA. 240+00.00 TO STA. 270+00.00		CONTRACT NO. 0 3 5 9 5				
PLOT DATE = 2/26/2010					DATE - 1-25-10		ILLINOIS FED. AID PROJECT				
ILLINOIS FED. AID PROJECT											

SEC 9, T 16 N, R 9 W, 3RD PM

LEGEND

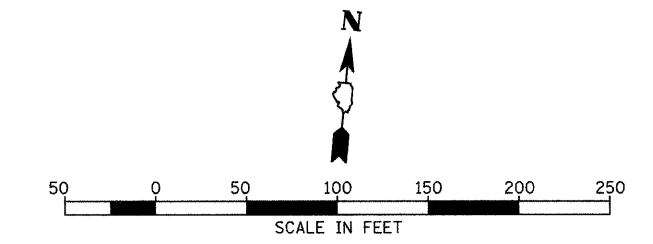
-  TEMPORARY DITCH CHECK
-  INLET & PIPE PROTECTION
-  SPECIAL DITCH - FLOW LINE AND DIRECTION
-  OVERLAND FLOW DIRECTION



CL SURVEY & CONSTRUCTION
LITERBERRY-PRENTICE ROAD (CH19)

PROP. CURVE CH19-14
PI STA. = 279+46.18
Δ = 6° 19' 56'' (RT)
D = 2° 00' 00''
R = 2,864.93'
T = 158.47'
L = 316.62'
E = 4.38'
e = ---
T.R. = ---
S.E. RUN = ---
P.C. STA. = 277+87.71
P.T. STA. = 281+04.33

CURVE CH19-13
STA. = 269+79.58
Δ = 49° 17' 05'' (RT)
D = 7° 29' 23''
R = 765.00'



FILE NAME = v:\transportation\2839\2839E002.dgn	USER NAME = jolson	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

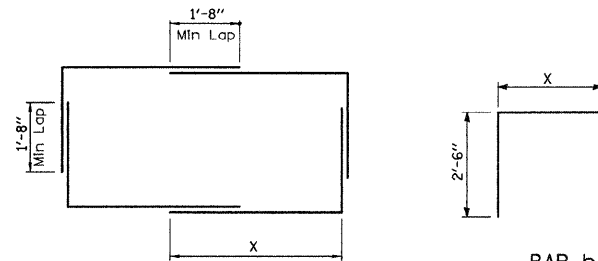
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LITERBERRY-PRENTICE ROAD (CH 19)
EROSION CONTROL
SCALE: 1" = 50'-0" SHEET NO. 2 OF 2 SHEETS STA. 270+00.00 TO STA. 284+06.84

F.A.S. RTE. 611	SECTION 05-00093-03-FP	COUNTY MORGAN	TOTAL SHEETS 31	SHEET NO. 13
CONTRACT NO. 9 3 5 3 5				ILLINOIS FED. AID PROJECT

DROP BOX VARIABLES

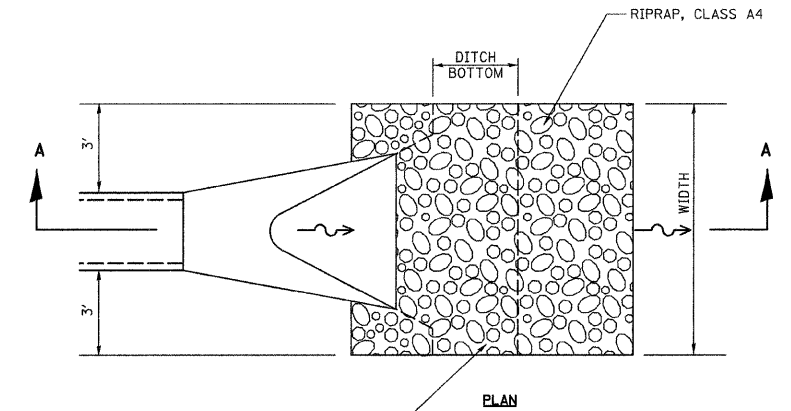
STATION	OFFSET	OUTLET SIZE	SKEW	α	β	INV ELEV	DITCH E.	DIMENSIONS FOR CONCRETE			Concrete 1 Drop Str Cu Yd	Reinf Bars - 1 Drop Str										Pipe Handrail Foot	Bars Drop Str Pound	
								A	B	C		h - bars		v - bars		v1 - bars		t - bars		w - bars				
								X	Lgth	No		Lgth	No	Lgth	No	Lgth	No	Lgth	No					
254+50	LT	36" RCCP	0°	90°	90°	495.91	501.75	4'-8"	6'-0"	6'-2"	3.4	3'-6"	6'-0"	28	5'-6"	14	5'-2"	4	6'-0"	5	4'-0"	7	17'-4"	216



h BAR PLAN LAYOUT

BAR h

PIPE CULVERT OUTFALL DETAIL



SHAPE TO CONFORM TO FORESLOPE

RIPRAP LOCATIONS

- 248+00.00 RT
- 254+50.00 RT
- 260+15.00 RT
- 268+30.00 RT
- 272+30.00 RT

DESIGN STRESSES

f'c = 3,500 psi
fy = 60,000 psi

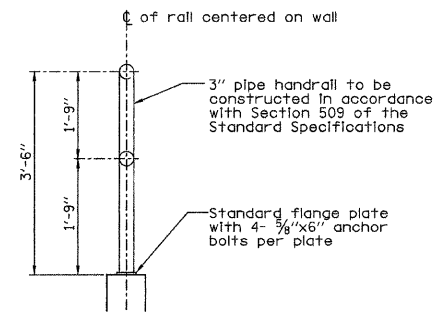
GENERAL NOTES

Precast units may be used in lieu of cast in place if approved by the Engineer.

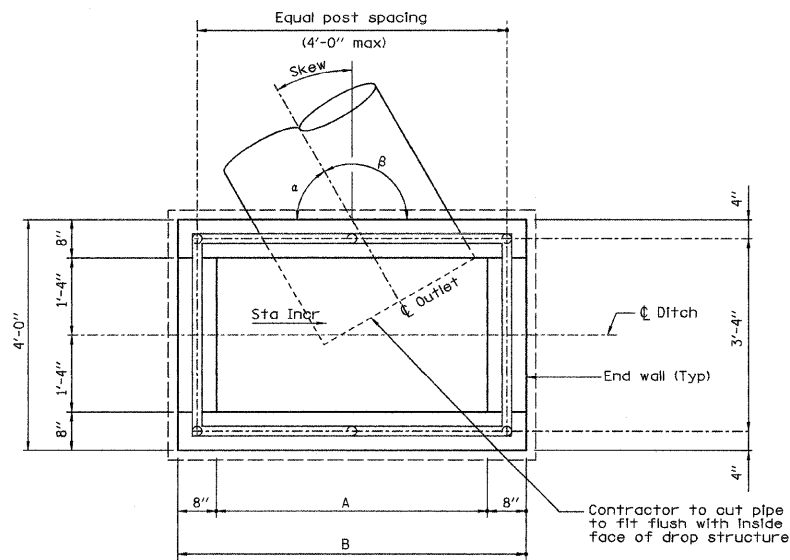
Place all reinforcement in middle of slab or wall.

Drop structures shall be paid for at the contract unit price, Cu Yd, for Concrete Structure. Price shall include the cost of concrete bottom slab and concrete walls. Handrailing and reinforcement shall be paid for at the contract unit price for Pipe Handrail (Foot) and Reinforcement Bars (Pound) and shall be furnished and installed in accordance with the plans and Special Provisions.

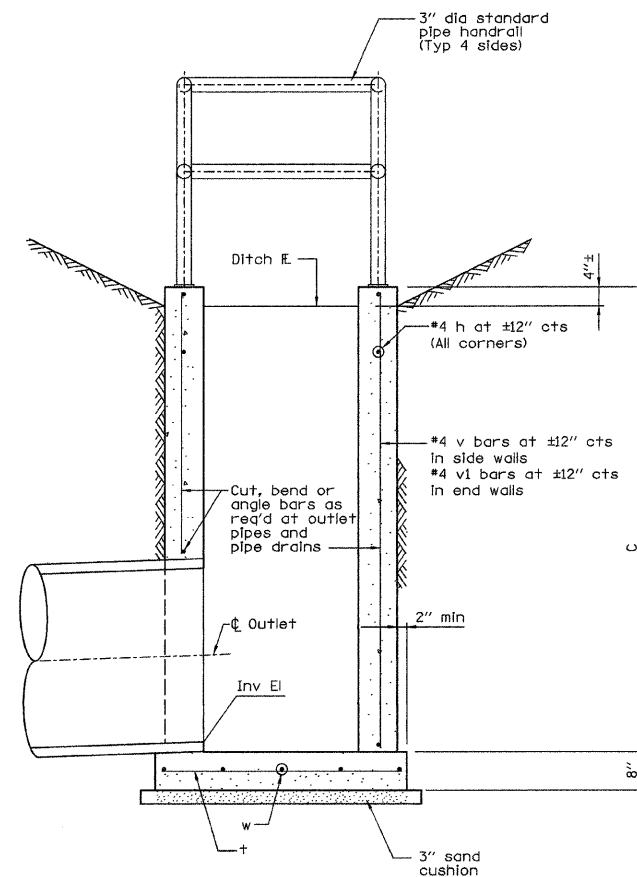
Class S1 concrete shall be used throughout.



3" PIPE HANDRAIL SECTION

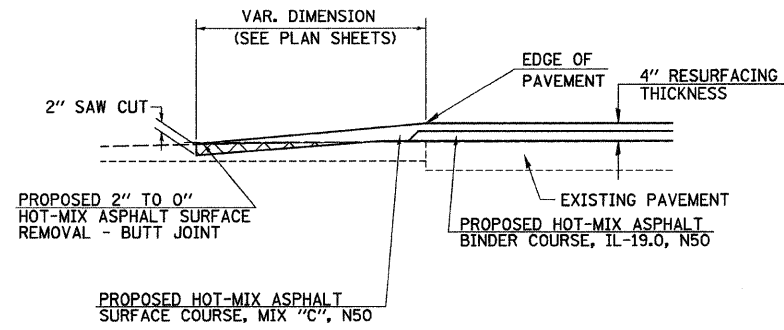
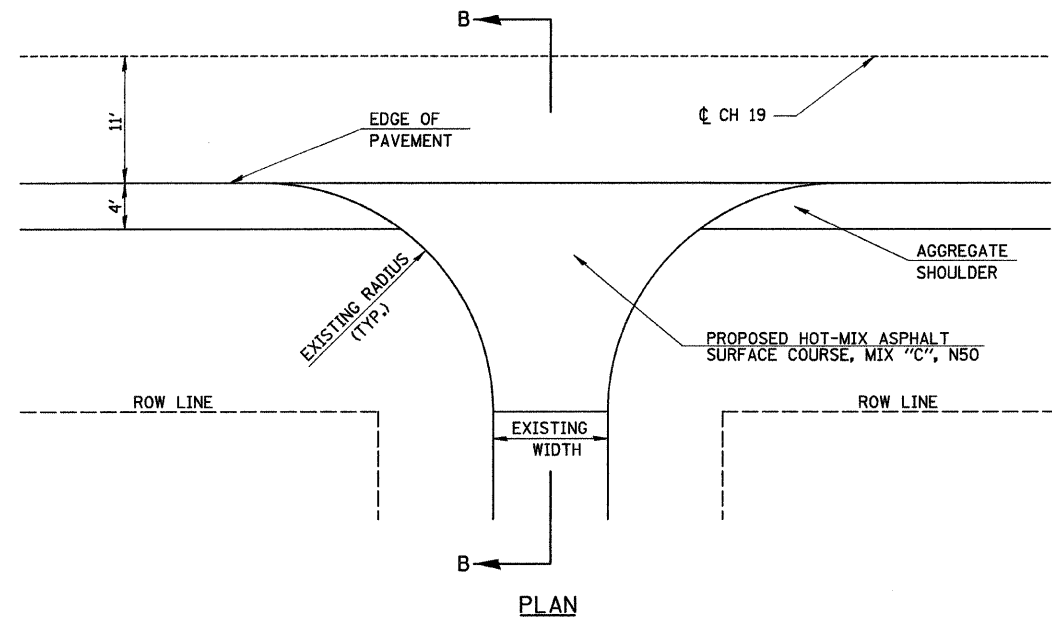


PLAN

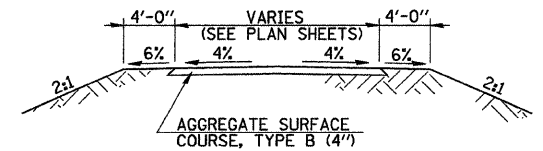
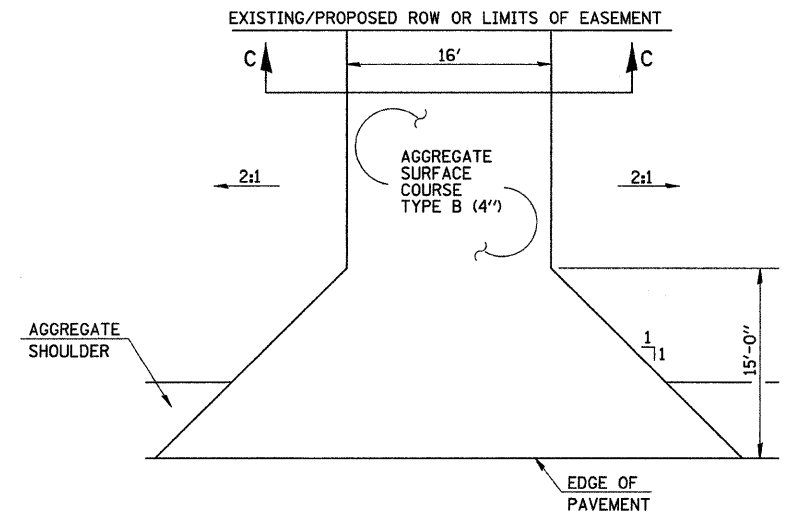


SECTION THRU DROP BOX

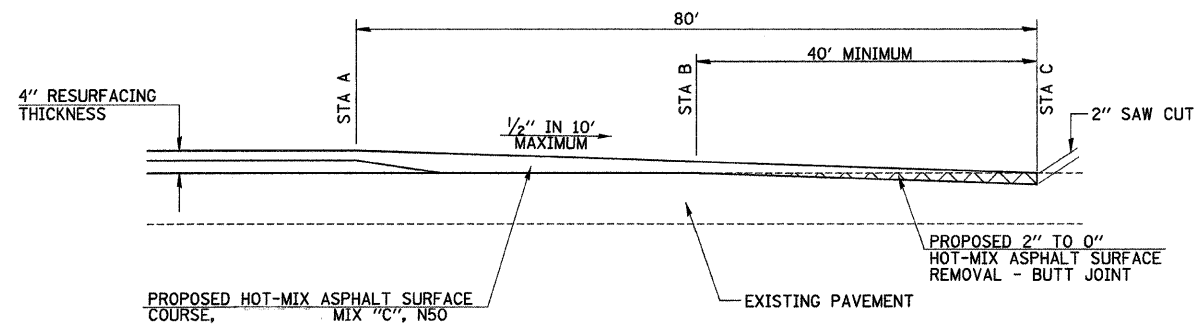
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PLOT SCALE = 1/5625' / IN.	PLotted DATE = 2/26/2010	DRAWN - JMO	REVISED -		SCALE: NONE	SHEET NO. 1 OF 2 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT				
		CHECKED - JRB	REVISED -		CONTRACT NO. 9 9 5 9 8							
		DATE - 1-21-10	REVISED -		CONTRACT NO. 9 9 5 9 8							



SECTION B-B
 PROPOSED SIDEROAD TAPER

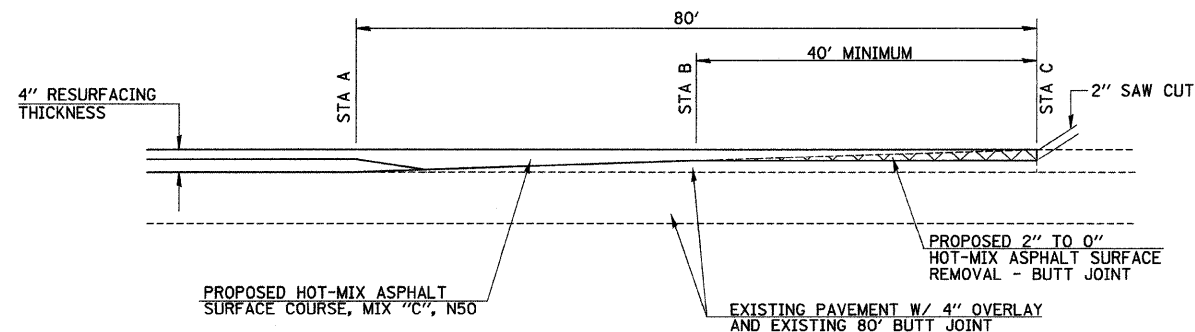


SECTION C-C
 PROPOSED ENTRANCE TAPERS
 STA 255+67.78 TO STA 274+00.00



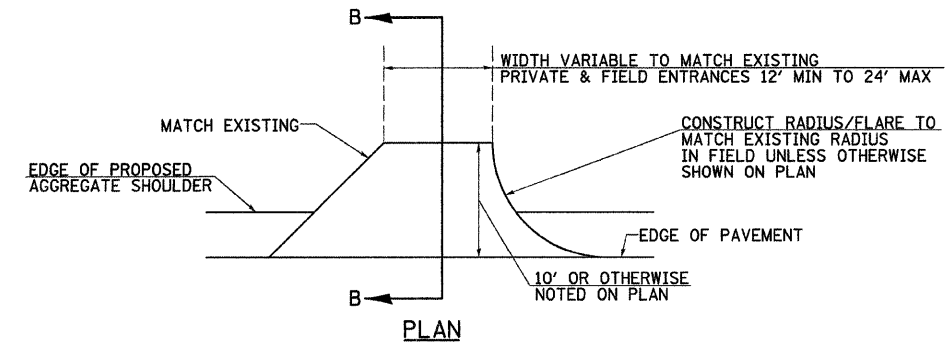
STA A	STA B	STA C
216+78.97	216+38.97	215+98.97

WEST END BUTT JOINT DETAIL

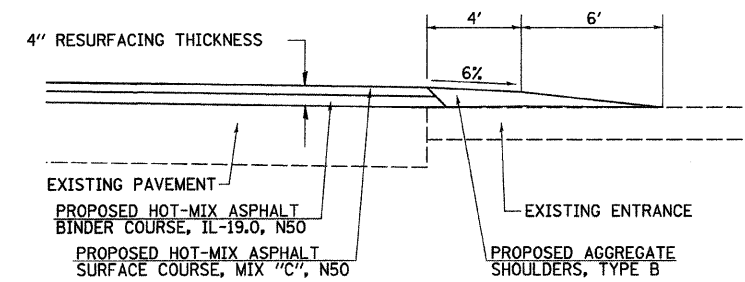


STA A	STA B	STA C
283+26.84	283+66.84	284+06.84

EAST END BUTT JOINT DETAIL



PLAN



SECTION B-B

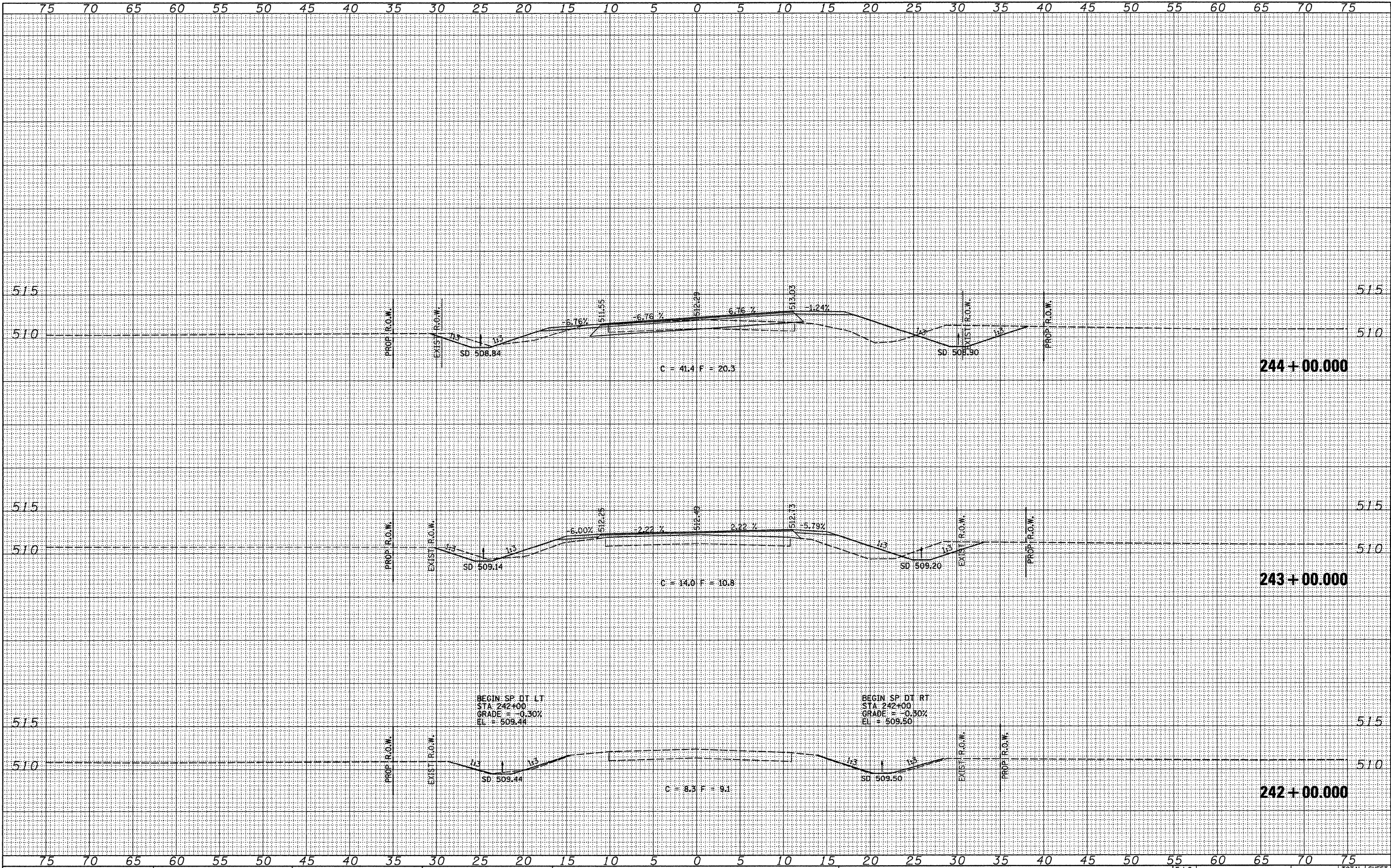
ENTRANCE TAPERS

STA 215+98.97 TO STA 255+67.78
 STA 274+00.00 TO STA 284+06.84

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PLOT SCALE = 1/8" = 1' IN.	PLOT DATE = 2/26/2010	DRAWN - JMO	REVISED -		SCALE: NONE	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.	CONTRACT NO. 93535			
		CHECKED - JRB	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE - 1-21-2010	REVISED -									

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

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



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CHECKED -	REVISED -
DATE -	REVISED -

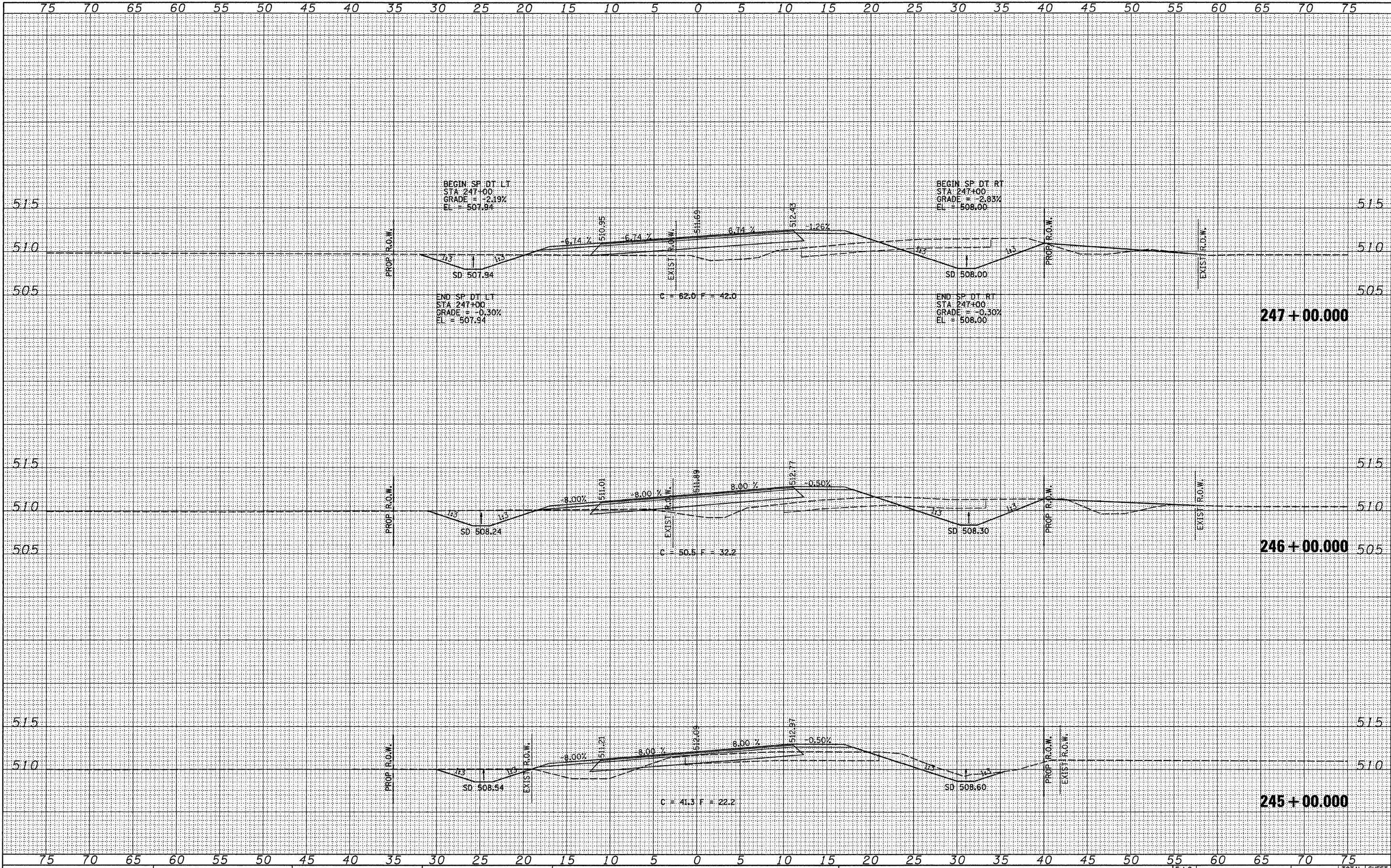
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LITERBERRY-PRENTICE ROAD (CH 19)
 CROSS SECTION SHEETS
 SCALE: SHEET NO. 1 OF 16 SHEETS STA. 242+00.000 TO STA. 244+00.000

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
611	05-00093-03-FP	MORGAN	31	16
				CONTRACT NO. 93535
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
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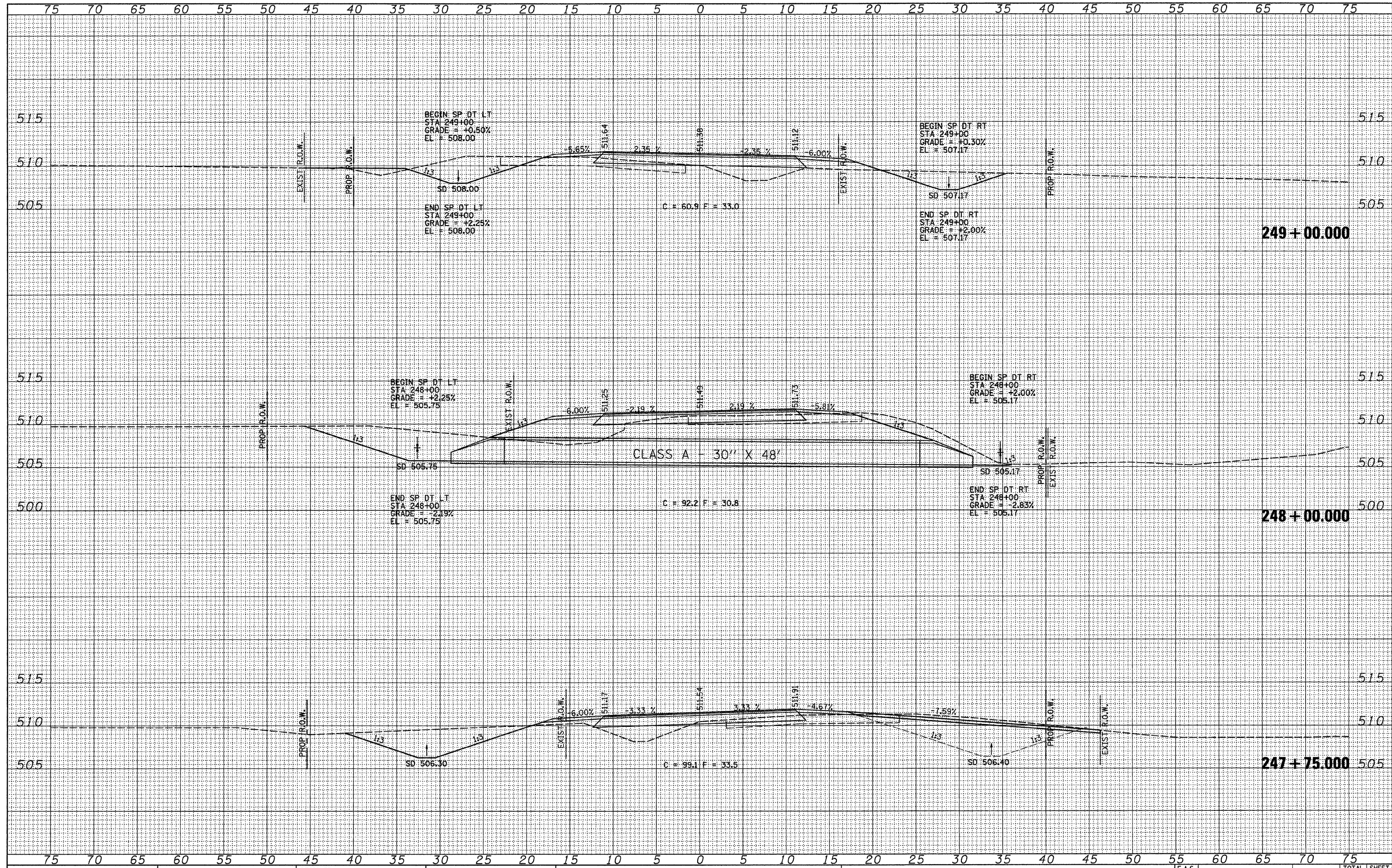
DESIGNED -	REVISD -
DRAWN -	REVISD -
CHECKED -	REVISD -
DATE -	REVISD -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**LITERBERRY-PRENTICE ROAD (CH 19)
 CROSS SECTION SHEETS**

SCALE: SHEET NO. 2 OF 16 SHEETS STA. 245+00.000 TO STA. 247+00.000

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
611	05-00093-03-FP	MORGAN	31	17
			CONTRACT NO.	93535
ILLINOIS FED. AID PROJECT				



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

DATE	
BY	
NO.	
ORIGINAL SURVEY	
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TEMPLATE	
AREAS	
CHECKED	
NOTE BOOK	
NO.	

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DESIGNED -	REVISD -
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CHECKED -	REVISD -
DATE -	REVISD -

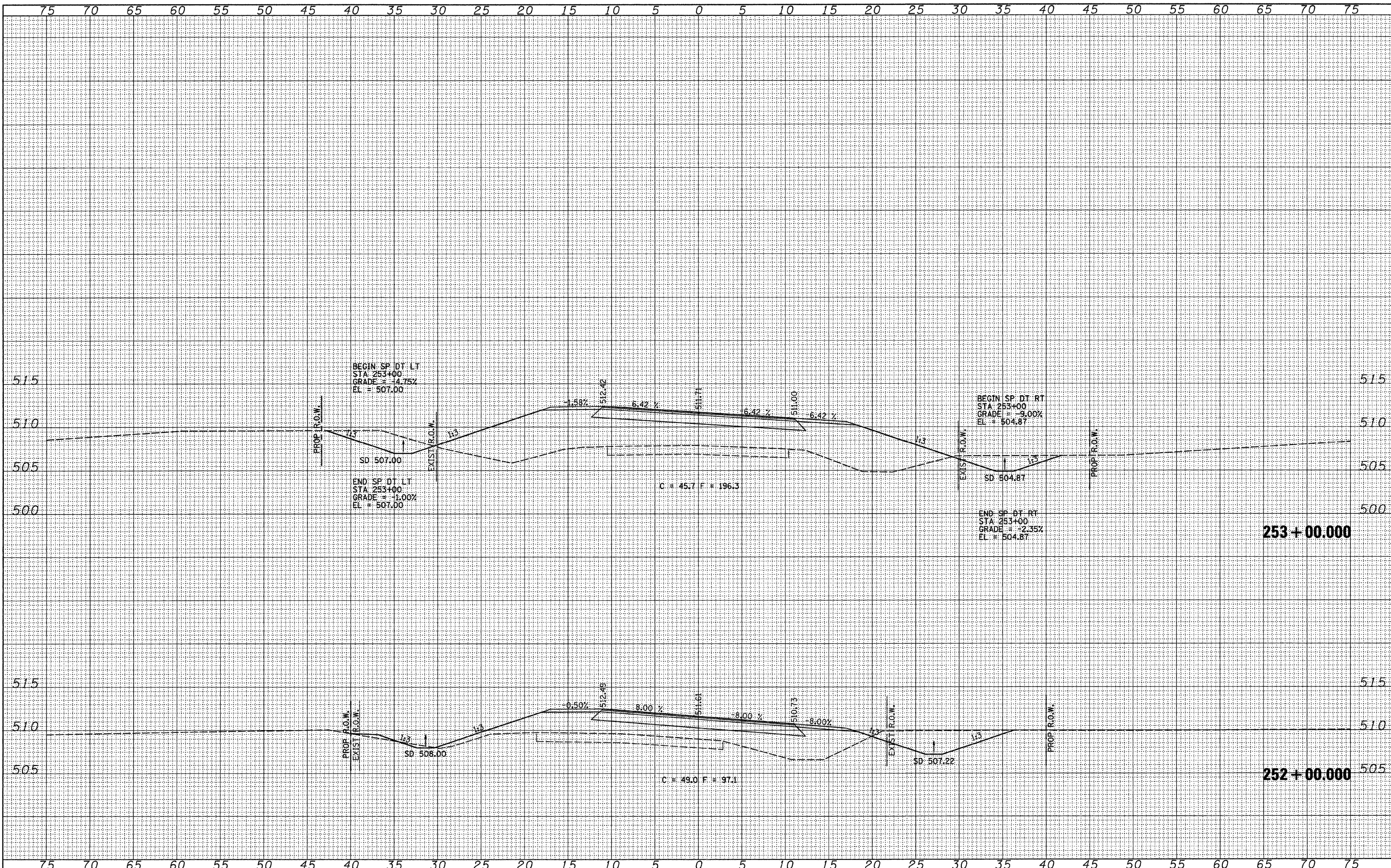
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LITERBERRY-PRENTICE ROAD (CH 19)
 CROSS SECTION SHEETS
 SCALE: SHEET NO. 3 OF 16 SHEETS STA. 247+75.000 TO STA. 249+00.000

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
611	05-00093-03-FP	MORGAN	31	18
CONTRACT NO. 93535				
ILLINOIS FED. AID PROJECT				

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

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



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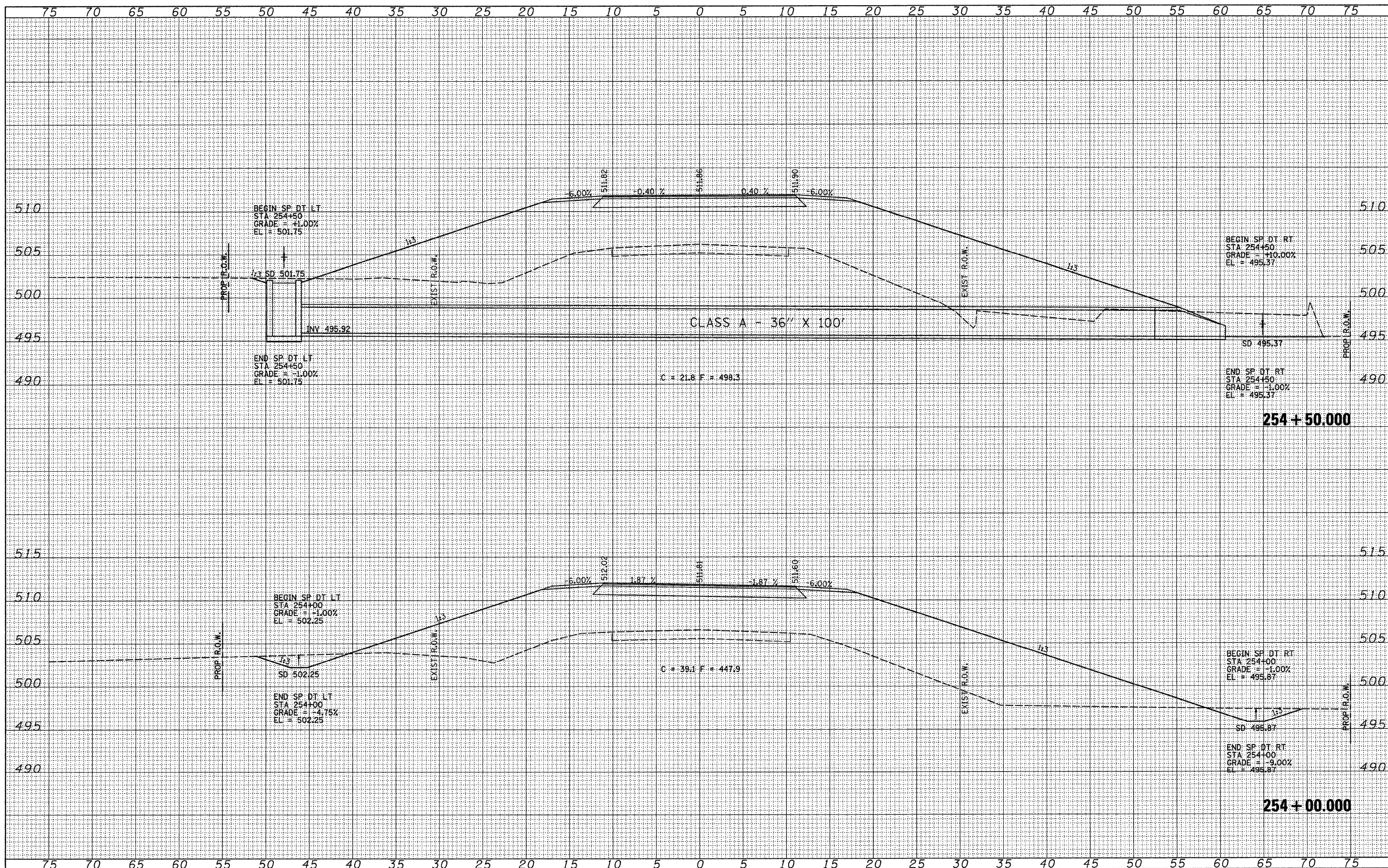
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DRAWN -	REVISIED -
CHECKED -	REVISIED -
DATE -	REVISIED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**LITERBERRY-PRENTICE ROAD (CH 19)
 CROSS SECTION SHEETS**

SCALE: SHEET NO. 5 OF 16 SHEETS STA. 252+00.000 TO STA. 253+00.000

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
611	05-00093-03-FP	MORGAN	31	20
CONTRACT NO. 93535			ILLINOIS FED. AID PROJECT	



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

DATE	
BY	
NO.	
AREAS CHECKED	
TEMPLATE	
NOTE BOOK	
SURVEY	
ORIGINAL SURVEY	

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PLOT SCALE = 5.000' / IN.	DRAWN -	REVISED -
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

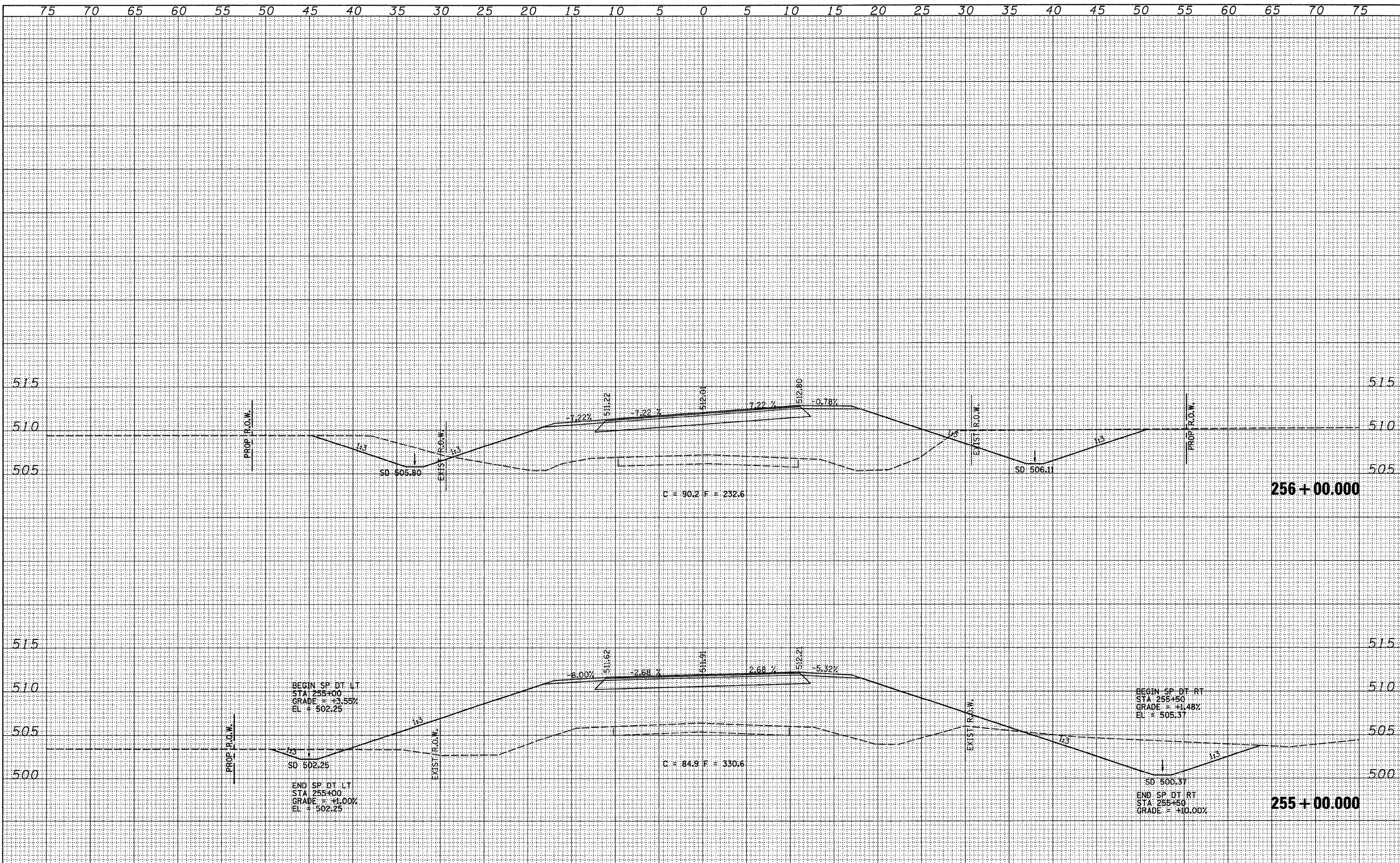
**LITERBERRY-PRENTICE ROAD (CH 19)
CROSS SECTION SHEETS**

SCALE: SHEET NO. 6 OF 16 SHEETS STA. 254+00.000 TO STA. 254+50.000

F.A.S. RTE. 611	SECTION 05-00093-03-FP	COUNTY MORGAN	TOTAL SHEETS 31	SHEET NO. 21
ILLINOIS FED. AID PROJECT				CONTRACT NO. 93335

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	TEMPLATE	
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	CHECKED	

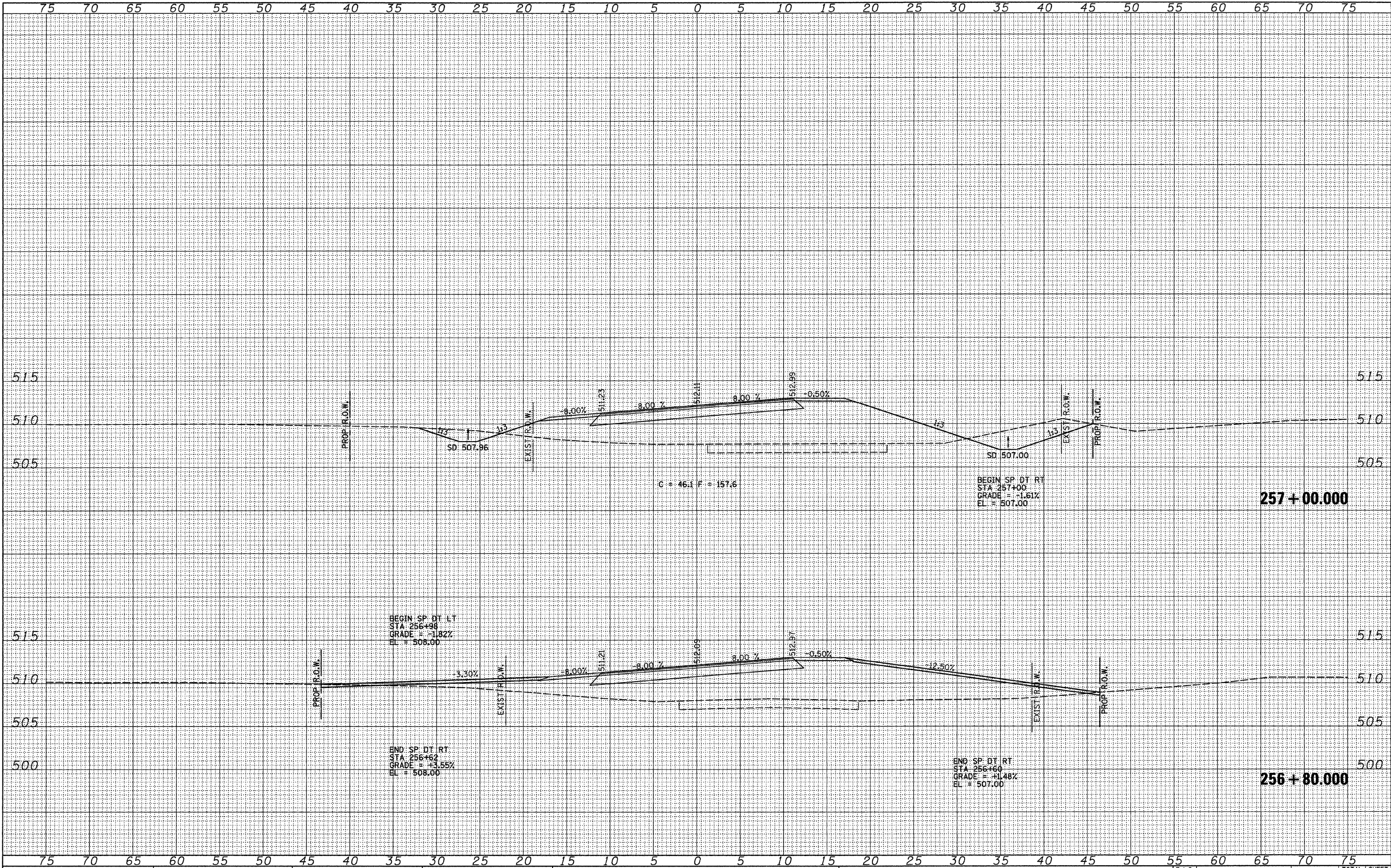
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NOTE BOOK	PLOTTED	
NO.	TEMPLATE	
	AREAS	
	CHECKED	



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	PLT SCALE = 5.000' / IN.	DRAWN -	REVISED -		SCALE:	SHEET NO. 7 OF 16 SHEETS	STA. 255+00.000 TO STA. 256+00.000	CONTRACT NO. 93535				
	PLT DATE = 2/26/2010	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									

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

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
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 PLOT DATE = 2/26/2018

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CHECKED -	REVISOR -
DATE -	REVISOR -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

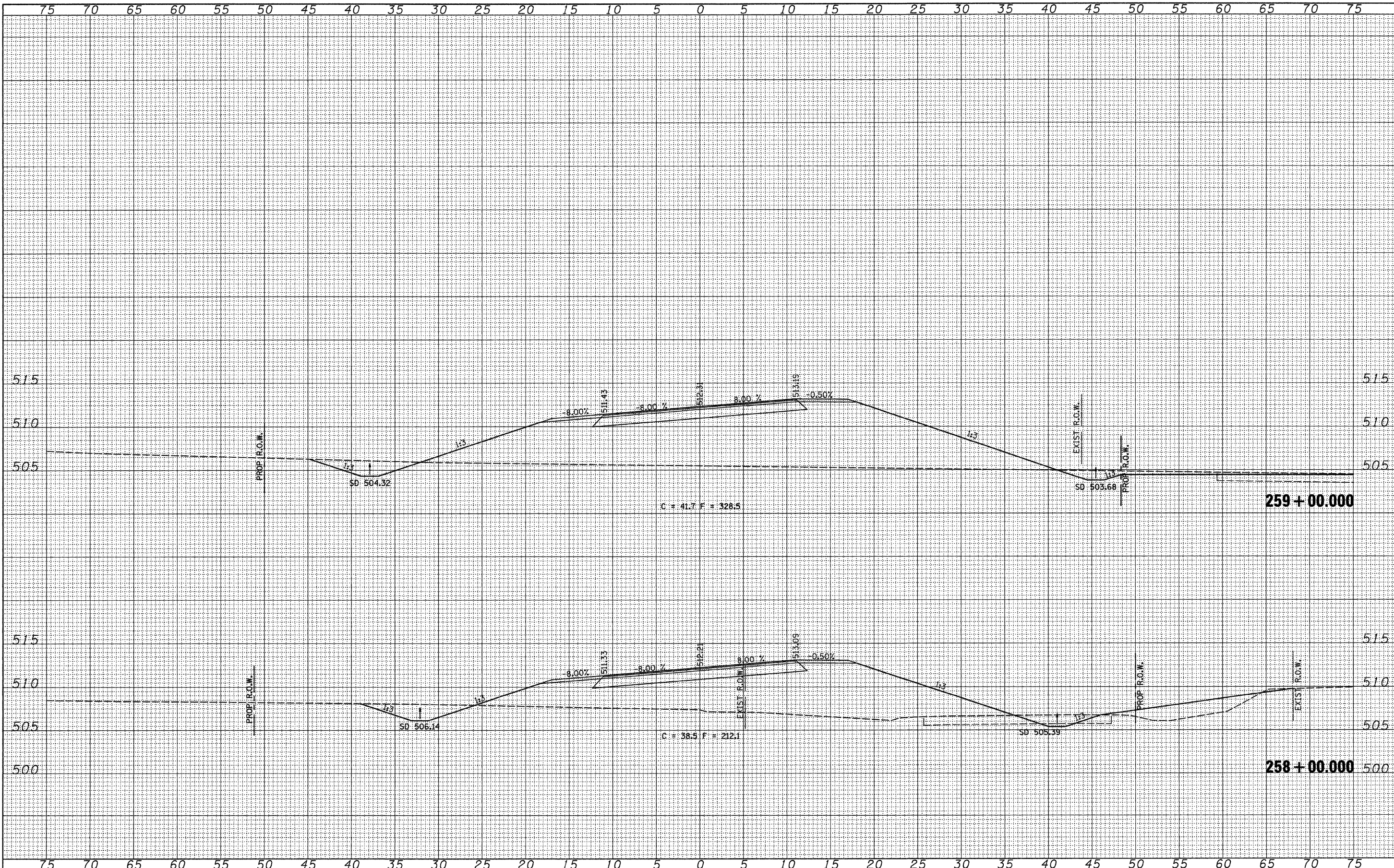
**LITERBERRY-PRENTICE ROAD (CH 19)
 CROSS SECTION SHEETS**

SCALE: SHEET NO. 8 OF 16 SHEETS STA. 256+80.000 TO STA. 257+00.000

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
611	05-00093-03-FP	MORGAN	31	23
			CONTRACT NO.	93535
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED AREAS CHECKED	BY	DATE



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USER NAME = jolson
 PLT SCALE = 5.000' / IN.
 PLOT DATE = 2/26/2010

DESIGNED -	REVISD -
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CHECKED -	REVISD -
DATE -	REVISD -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

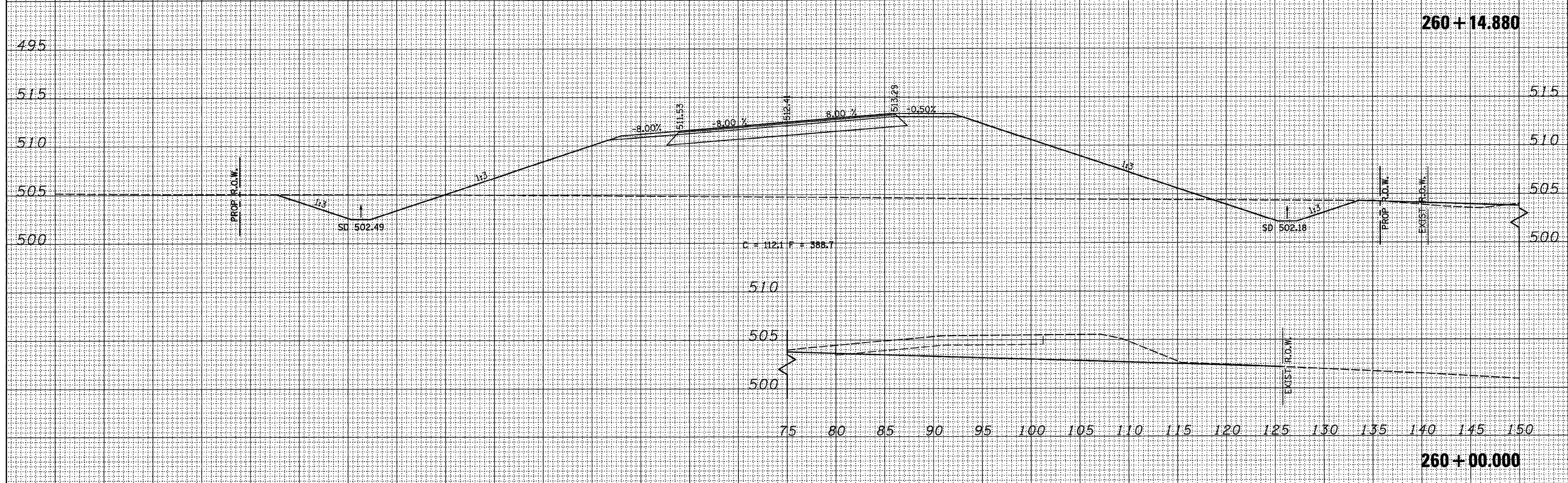
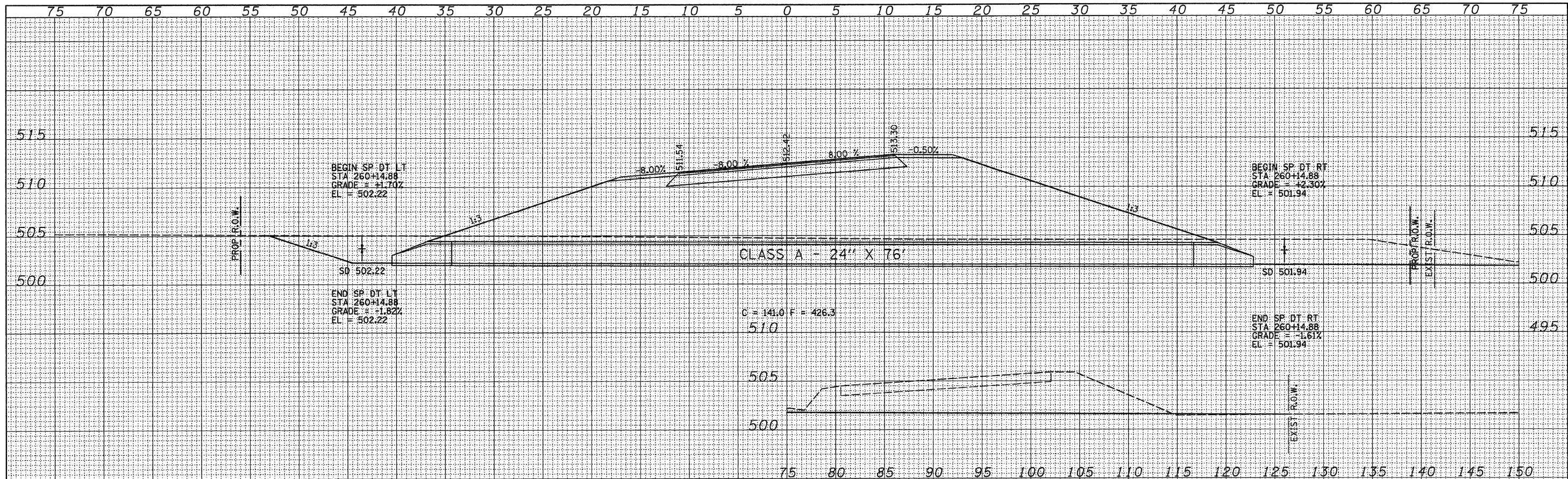
**LITERBERRY-PRENTICE ROAD (CH 19)
 CROSS SECTION SHEETS**

SCALE: SHEET NO. 9 OF 16 SHEETS STA. 258+00.000 TO STA. 259+00.000

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
611	05-00093-03-FP	MORGAN	31	24
CONTRACT NO. 93595			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
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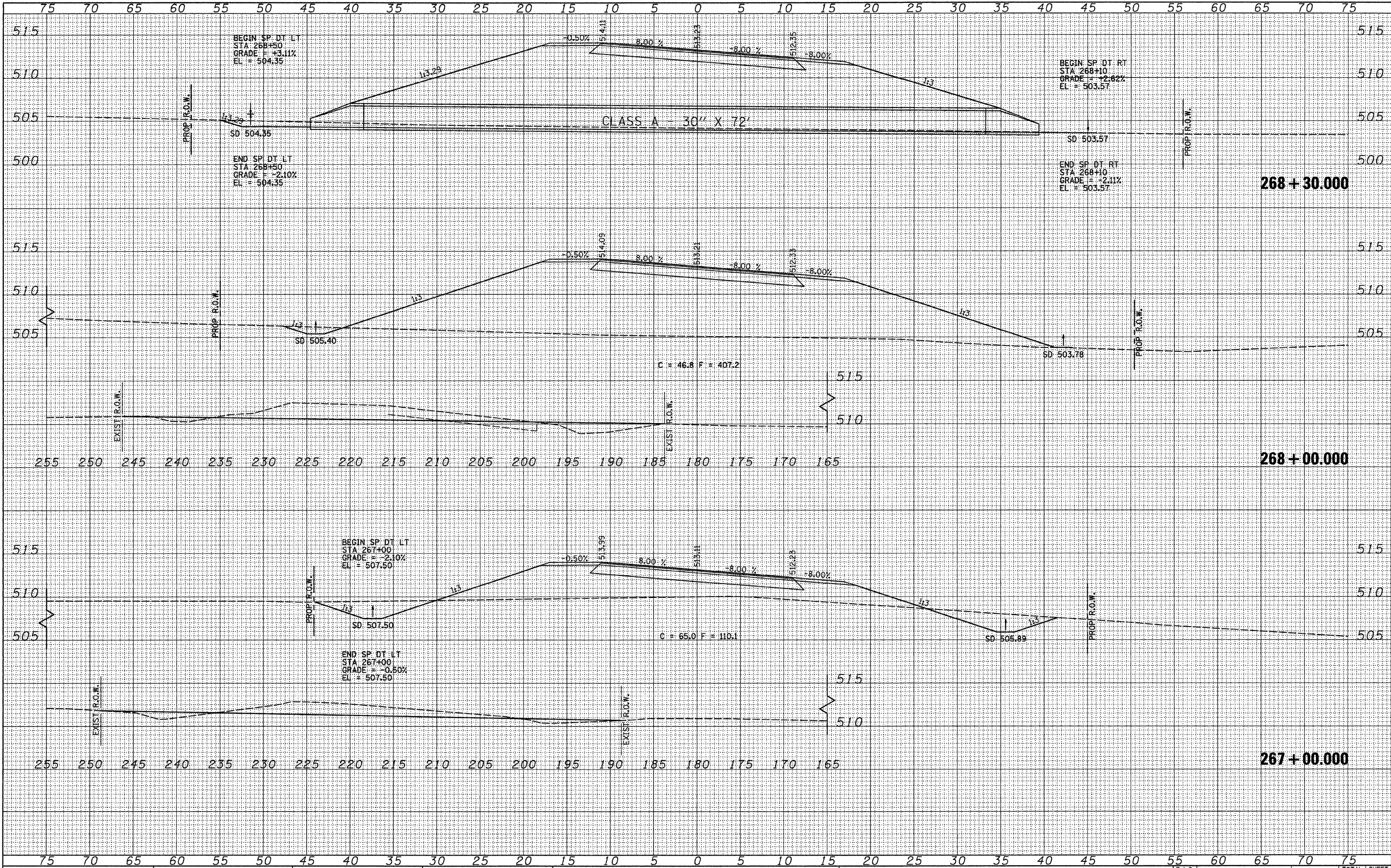
ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	TEMPLATE	
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PLOT SCALE = 5.000' / IN.	DATE = 2/26/2018	DRAWN -	REVISOR -					SCALE: SHEET NO. 10 OF 16 SHEETS		STA. 260+00.000 TO STA. 260+14.880		CONTRACT NO. 93535	
		CHECKED -	REVISOR -									ILLINOIS FED. AID PROJECT	
		DATE -	REVISOR -										

DATE	
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FINAL SURVEY	
SURVEYED	
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TEMPLATE	
AREAS	
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ORIGINAL SURVEY	
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DATE -	REVISED -

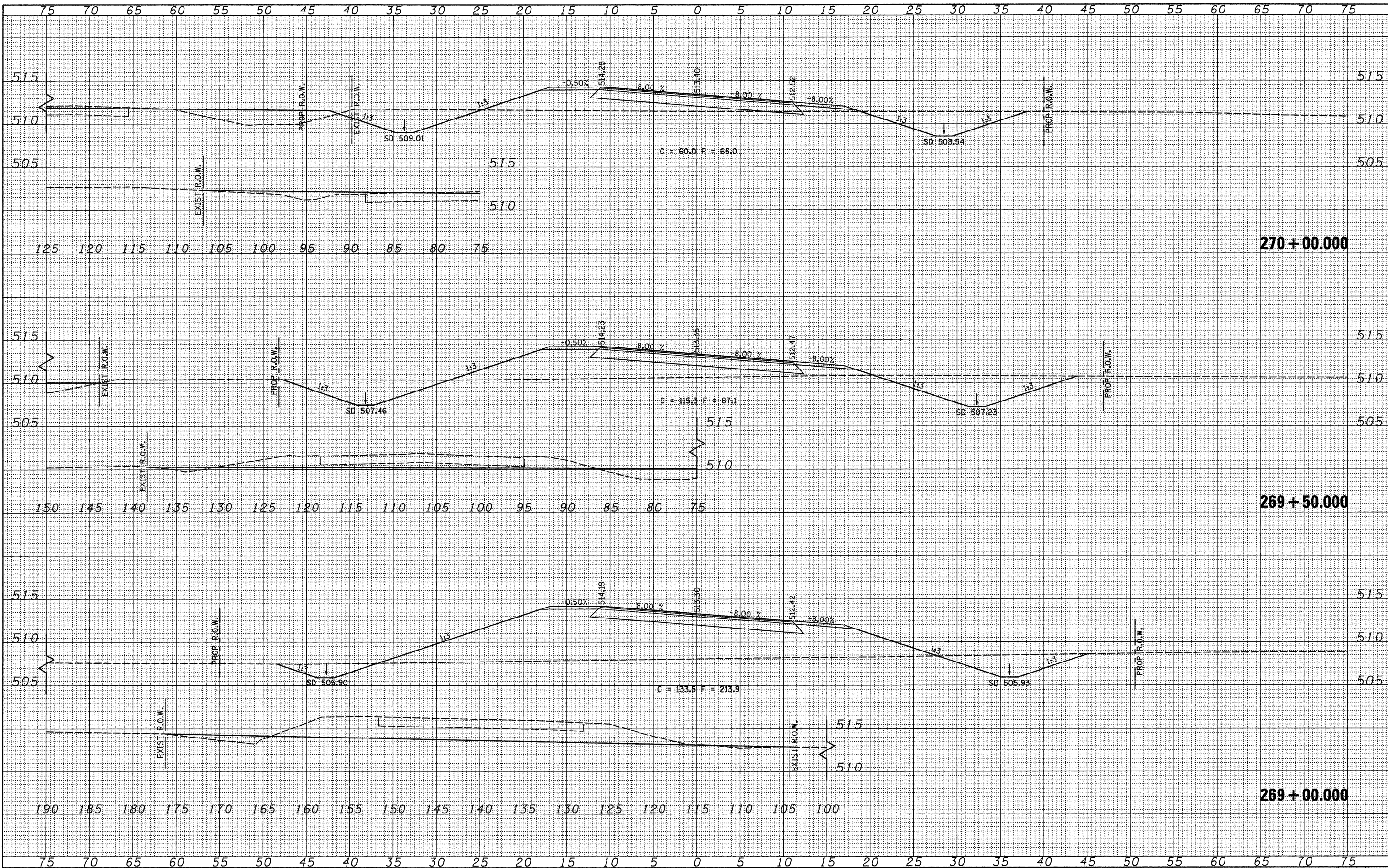
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LITERBERRY-PRENTICE ROAD (CH 19)
CROSS SECTION SHEETS
SCALE: SHEET NO. 13 OF 16 SHEETS STA. 267+00.00 TO STA. 268+30.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
611	05-00093-03-FP	MORGAN	31	28
				CONTRACT NO. 93535
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS	
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ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
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	PLOT SCALE = 5.000' / IN.	DRAWN -	REVISED -		SCALE:	SHEET NO. 14 OF 16 SHEETS	STA. 269+00.000 TO STA. 270+00.000	CONTRACT NO. 93535				
	PLOT DATE = 2/26/2010	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									

