



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	13BR-1	WHITESIDE	26	2
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

# SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM	UNIT	←80% FED-20% STATE→	
			BRIDGE	ROADWAY
			X080-2A	
20200600	EXCAVATING AND GRADING EXISTING SHOULDER	UNIT	1	1
20400805	FURNISHED EXCAVATION, SPECIAL	CU YD	30	30
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	16	16
X2500200	TEMPORARY SEEDING	POUND	40	40
25100630	EROSION CONTROL BLANKET	SQ YD	200	200
28000400	PERIMETER EROSION BARRIER	FOOT	959	959
31101000	SUB GRANULAR MATERIAL B	TON	160	160
44000007	BITUMINOUS SURFACE REMOVAL 2'	SQ YD	144	144
48101200	AGGREGATE SHOULDERS, TYPE B	TON	245	245
48202050	BITUMINOUS SHOULDERS SUPERPAVE 2'	SQ YD	30	30
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1	1
50300260	BRIDGE DECK GROOVING	SQ YD	620	620
50300300	PROTECTIVE COAT	SQ YD	631	631
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ. FT.	5664	5664
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	7630	7630
50901005	STEEL BRIDGE RAIL, TYPE SM	FOOT	346	346
51500100	NAME PLATES	EACH	1	1
59000100	EPOXY CRACK SEALING	FOOT	106	106.0
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	4
* 63100169	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (FLARED)	EACH	2	2
* 63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	2	2
66300105	CALCIUM CHLORIDE APPLIED	TON	30	30
63301000	REMOVE AND RE-ERECT STEEL PLATE BEAM GUARDRAIL	FOOT	662	662
63500105	DELINEATORS	EACH	4	4

CODE NUMBER	PAY ITEM	UNIT	←80% FED-20% STATE→	
			BRIDGE	ROADWAY
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	2	2
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	2	2
67100100	MOBILIZATION	L SUM	1	1
X7013015	TRAFFIC CONTROL FOR ROAD CLOSURE	L SUM	1	1
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1856	1856
X4066414	BITUMINOUS CONCRETE SURFACE COARSE, SUPERPAVE, MIX "C", N50	TON	114	114
X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	631	631
X6320100	GUARDRAIL REMOVAL SPECIAL	FOOT	363	363
X0322194	POLYMER MODIFIED PORTLAND CEMENT MORTAR	SQ FT	2.1	2.1
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1

\* SPECIALTY ITEMS

PLOT DATE = Wed Nov 02 13:42:26 2005  
 FILE NAME = c:\p\projects\2005\64A51\64A51.dgn  
 PLOT SCALE = 50.0000 / 1 IN.  
 USER NAME = mgjllj

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

# GENERAL NOTES

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 203	13BR-1	Whiteside	26	3
FED ROAD DIST. NO.	ILLINOIS	PROJECT		
Contract #64A51				

The final top 100 mm (four inches) of soil in any right-of-way area disturbed by the Contractor must be capable of supporting vegetation. The soil must be from the A horizon (zero to 2' deep) of soil profiles of local soils.

The Contractor shall seed all disturbed areas within the project limits. Seeding Class 4 or 6 (modified) shall be used, except in front of properties where the grass will be mowed, then use Seeding, Class 1 (modified). Class 6 (modified) shall be used on front slopes and ditch bottoms. Class 4 shall be used behind Type A gutter, on all backslopes and areas behind the backslope, and beyond the toe of front slope on fill sections without ditches. This work will be included in the contract unit price per Cubic Meter (Cubic Yard) for FURNISHED EXCAVATION.

Fertilizer shall be applied to all disturbed areas and incorporated into the seedbed prior to seeding or placement of sod at the rate specified in Sections 250 and 252 of the Standard Specifications. This work shall be included in the cost of FURNISHED EXCAVATION.

Mulch Method II shall be applied over all seeded areas. This shall be included in the cost of the FURNISHED EXCAVATION.

This structure will retain the same number 098-0002.

Embankment quantities for the construction of the Traffic Barrier Terminals as shown in the plans are included in quantities for Furnished Excavation.

The Contractor shall supply the Resident Engineer with the manufacturer's installation requirements for the type of Steel Plate Beam Guardrail Terminal Type 1 Special (Tangent) or Steel Plate Beam Guardrail Terminal Type I Special (Flared).

Bituminous Prime Coat shall be placed in accordance with Section 406 of the Standard Specifications. The cost of the Bituminous Prime Coat shall be included in the contract unit price per TON for SURFACE COURSE, TYPE I, N50.

One 16d galvanized nail shall be used to toe nail the wood block out to the wood post on all Traffic Barrier Terminal Type I Specials.

Delineators shall be installed as shown in Standard 635001, except that the post shall be rotated 180° and only metal-backed delineators shall be permitted.

Delineators shall be placed at the ends of approach guardrail terminal sections. This work will be paid for at the contract unit price each for DELINEATORS.

Pavement marking shall be done according to Standard 780001, except as follows:

1. All words, such as ONLY, shall be 2.4 m (8 feet) high.
2. All non-freeway arrows shall be the large size.
3. The distance between yellow no-passing lines shall be 200 mm (8"), not 180 mm (7") as shown in the detail of Typical Lane and Edge Lines.

Permanent survey markers, Type II shall be cast-in-place as shown on Highway Standard 667101. A marker shall be placed near each end of the structure in such a location that will take into account satellite and future construction. Location shall be determined by the Engineer.

The Contractor shall submit to the Engineer a description of location, elevation, and coordinates for each permanent survey marker. The Engineer shall submit this information to the Survey Crew.

The following quantities have been estimated for the Good Neighbor Policy as needed:

- 66300105 Calcium Chloride applied - 30 ton
- X4066414 Bituminous Surface Course, Superpave, Mix "C", N50 - 100 tons
- 31101000 Sub-base Granular Material, Type B - 160 ton

Fenton Township Commissioner & Whiteside County Engineer shall be informed 1 week prior to the construction beginning. Above listed shall be invited to the pre-construction meeting.

A quantity of calcium chloride applied has been included in the contract to be applied to Hillside, Hill & Smit Roads as needed to control dust. The Resident Engineer shall determine quantity as needed.

A quantity of 160 ton of Sub-base Granular Material B has been included to be used to maintain Hillside, Hill & Smit Roads as determined by the Resident Engineer. Included in this pay item shall be the spreading of the material and compaction to the satisfaction of the Resident Engineer.

Work on this project will be in progress at the same time as work on the \_\_\_\_\_. Work on these projects shall be scheduled to keep interference between all the projects to a minimum. The contractors shall inform each other of progress of the projects and give fair warning to the other contractors when a problem might be encountered.

The Contractor shall be responsible for protecting utility property during construction operations as outlined in Article 107.31 of the Standard Specifications. A minimum of 48 hours advance notice is required for non-emergency work. The JULIE number is 800-892-0123. The following listed utilities located within the project limits or immediately adjacent to the project construction limits are members of JULIE:

Mediacom  
Alliant Energy  
Dome Pipeline Corp.

Commonwealth Edison  
Citizen's Telephone

Following are the known utilities located within the project limits or immediately adjacent to the project construction limits which are not members of JULIE and should be notified individually by the contractor:

Mr. Dennis Schultz  
IDOT  
819 Depot Ave.  
Dixon, IL 61021

Program #5  
(Arch. Size)  
Enlarge  
200%  
Enlarge 107%

# GENERAL NOTES

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 203	13BR-1	Whiteside	26	3A
FED ROAD DIST. NO.	ILLINOIS	PROJECT		
Contract #64A51				

A quantity of 160 Ton Sub Granular Material B and 100 Ton Bituminous Concrete Surface Course, N50 has been included to be used to maintain Hillside Road, Hill Road, and Smit Road as determined by the Resident Engineer. Included within this pay item shall be the spreading of the material and compaction to the satisfaction of the Resident Engineer.

A quantity of Calcium Chloride applied has been included in the contract to be applied as needed to control dust. The Resident Engineer shall determine quantity as needed.

Fenton Township Commissioner and Whiteside County Engineer shall be informed 1 week prior to the construction beginning. Above listed shall be invited to the pre-construction meeting.

The Resident Engineer, prior to closing the road and after the project is finished, shall contact the corresponding Townships of Fenton and Whiteside County to videotape the following roads: Hillside, Hill & Smit Roads.

The following Mixture Requirements are applicable for this project:

Mixture Uses(s):	Mainline Surface Course		
PG:	PG 64-22		
RAP%: (Max)	10%		
Design Air Voids	4.2 @ N50		
Mixture Composition (Gradation Mixture)	IL 9.5 or 12.5		
Friction Aggregate	C		
20 Year ESAL	4.3		

All dimensions shown are in feet unless otherwise noted. Pavement thickness and marking widths are shown in inches unless noted.

The contractor will not be allowed to set up a yard or field office on state property without written permission from the Department.

The removal and re-erection of existing steel plate beam guardrail shall be performed according to the applicable portions of Section 633 of the Standard Specifications.

If, during the completion of this project, the existing mail boxes become a hindrance, the contractor shall be required to carefully remove and reinstall the mail boxes as directed by the engineer at no additional cost to the Department.

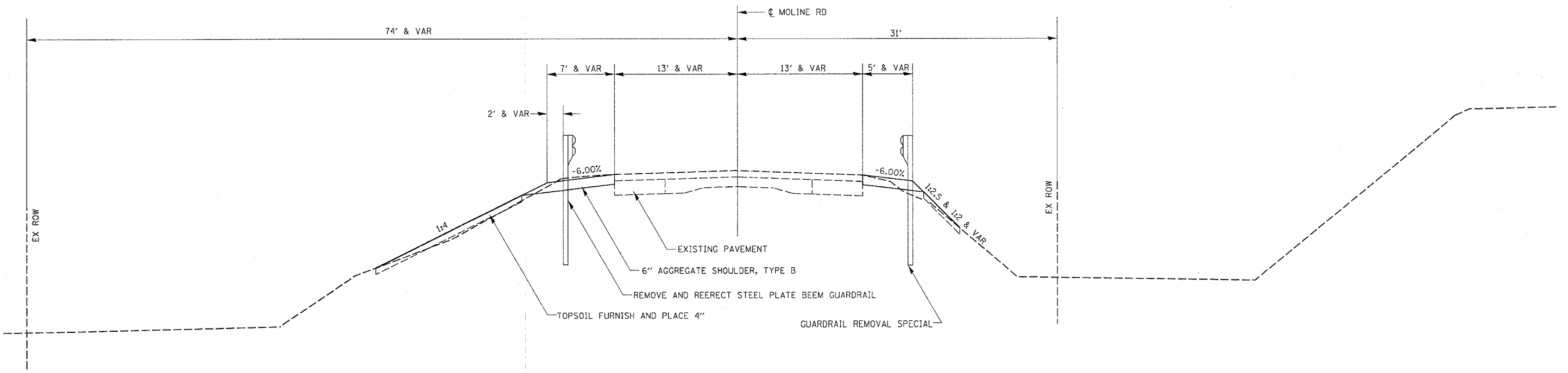
The excavated materials from earth excavation, widening, grading and shaping ditches, and excavating and grading shoulders shall be used to build up the shoulders throughout the job to conform with the typical section and shoulder widening for terminals as shown on the plans. No excavated materials shall be disposed of without consent from the Resident Engineer.

A quantity of 30 cubic yards of Furnished Excavation has been included to further build up the shoulders, if the engineer determines that the excavated materials from the job are insufficient to bring the shoulders to the proper slope.

Program #5  
(Arch. Size)  
Enlarge  
200%  
Enlarge 107%

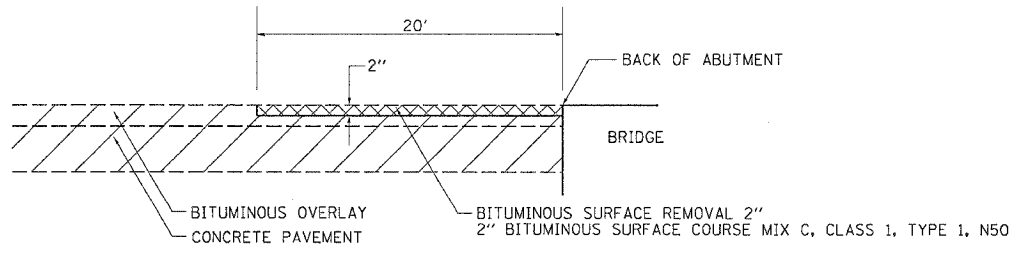
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	13BR-1	WHITESIDE	26	4
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

# TYPICAL SECTIONS



# BUTT JOINT

BITUMINOUS SURFACE REMOVAL - 2"  
 STA 24+55 TO STA 24+75 & STA 26+47 TO STA 26+67



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_

DATE \_\_\_\_\_

DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

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# SCHEDULE OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	13BR-1	WHITESIDE	26	5
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

20200600	EXCAVATING AND GRADING EXISTING SHOULDER			
	UNIT LOCATION			
	0.5 21+ 61.79-	24+ 75	LT & RT	
	0.5 26+ 47-	28+ 69.58	LT & RT	
	1 TOTAL			
20400805	FURNISHED EXCAVATION, SPECIAL			
	CY YD LOCATION			
	15 21+ 61.79-	24+ 75	LT & RT	
	15 26+ 47-	28+ 69.58	LT & RT	
	30 TOTAL			
21101615	TOPSOIL FURNISH AND PLACE			
	CY YD LOCATION			
	10 21+ 61.79-	24+ 75	LT & RT	
	11 26+ 47-	28+ 69.58	LT & RT	
	21 TOTAL			
25100630	EROSION CONTROL BLANKET			
	SQ YD LOCATION			
	200 21+ 61.79-	28+ 67	LT & RT	
	200 TOTAL			
X2500200	TEMPORARY SEEDING			
	POUND LOCATION			
	20 21+ 61.79-	24+ 75	LT & RT	
	20 26+ 47-	28+ 69.58	LT & RT	
	40 TOTAL			
28000400	PERIMETER EROSION BARRIER			
	EQOI LOCATION			
	532 21+ 61.79-	24+ 75	LT & RT	
	427 26+ 47-	28+ 69.58	LT & RT	
	959 TOTAL			
28100709	STONE DUMPED RIP RAP, CL AS			
	TON LOCATION			
	21 24+ 86 LEFT			
	21 TOTAL PLACED ALONG BASE OF STRUCTURE			
31101000	SUB GRANULAR MATERIAL B			
	TON LOCATION			
	160 GOOD NEIGHBOR POLICY			
	160 TOTAL			
X4066414	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX C, N50			
	TON LOCATION			
	7 22+ 55-	24+ 75		
	7 26+ 47-	26+ 67		
	100 GOOD NEIGHBOR POLICY			
	114 TOTAL			
44000007	BITUMINOUS CONCRETE SURFACE REMOVAL 2"			
	SQ YD LOCATION			
	72 22+ 55-	24+ 75		
	72 26+ 47-	26+ 67		
	72 TOTAL			
48101200	AGGREGATE SHOULDERS, TYPE B			
	TON LOCATION			
	122 21+ 61.79-	24+ 75		
	123 26+ 47-	28+ 69.58		
	245 TOTAL			
48202600	BITUMINOUS SHOULDERS SUPERPAVE 2"			
	SQ YD LOCATION			
	15.0 24+ 55-	24+ 75		
	15.0 26+ 47-	26+ 67		
	30.0 TOTAL			

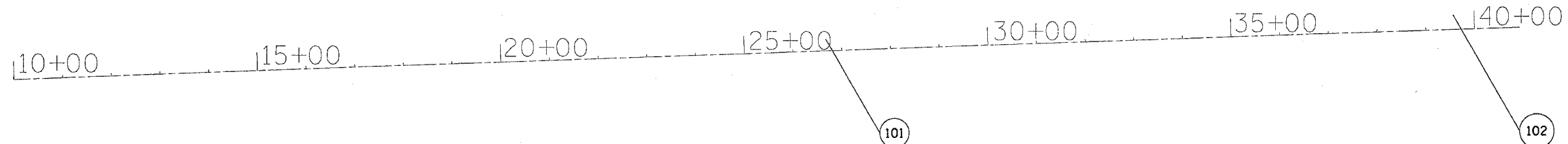
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES			
	EACH LOCATION			
	1 26+ 46.94			
	1 TOTAL			
63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A			
	EACH LOCATION			
	1 24+ 50.88 - 24+ 84.78LT			
	1 24+ 31.82 - 24+ 65.72RT			
	1 26+ 56.35 - 26+ 90.25LT			
	1 26+ 37.67 - 26+ 71.58RT			
	4 TOTAL			
63100169	TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (FLARED)			
	EACH LOCATION			
	1 23+ 13.38 - 23+ 25.88LT			
	1 28+ 52.75 - 28+ 65.25LT			
	2 TOTAL			
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)			
	EACH LOCATION			
	1 22+ 6.82 - 22+ 19.32RT			
	1 28+ 21.58 - 28+ 34.08RT			
	2 TOTAL			
63301000	REMOVE AND RE-ERECT STEEL PLATE BEAM GUARDRAIL			
	EQOI LOCATION			
	125 23+ 25.88 - 24+ 50.88LT			
	162 26+ 90.25 - 28+ 52.75LT			
	662 TOTAL			
X6320100	GUARDRAIL REMOVAL SPECIAL			
	EQOI LOCATION			
	212.5 22+ 19.32 - 24+ 31.82			
	150 26+ 71.58 - 28+ 21.58			
	362.5 TOTAL			
63500105	DELINEATORS			
	EACH LOCATION			
	1 22+ 6.82 RT			
	1 23+ 13.38 LT			
	1 28+ 34.08 RT			
	1 28+ 65.25 LT			
	4 TOTAL			
66300105	CALCIUM CHLORIDE APPLIED			
	TON LOCATION			
	30 GOOD NEIGHBOR POLICY			
	30 TOTAL			
78001110	PAINT PAVEMENT MARKING LINE 4"			
	EQOI LOCATION			
	928 24+ 45.2 - 26+ 76.94 WHITE EDGLINES - 2 COATS			
	928 24+ 45.2 - 26+ 76.94 DBL YELLOW - 2 COATS			
	1856 TOTAL			

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 USER NAME = meg111

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

## SCHEDULE OF QUANTITIES

# HORIZONTAL AND VERTICAL CONTROL



Chain MOLINERD contains:  
50 51

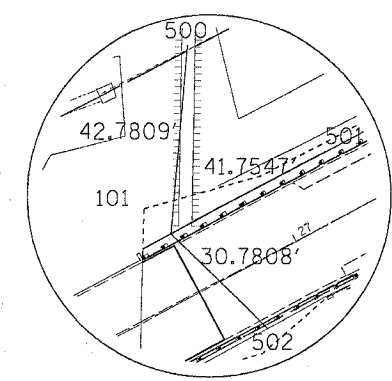
Beginning chain MOLINERD description

Point 50 N 1,825,114.8680 E 2,333,583.0704 Sta 10+00.0000

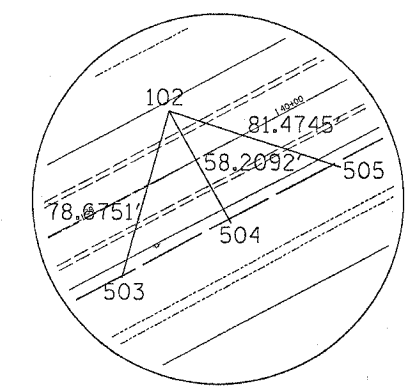
Course from 50 to 51 61° 59' 02.3867" Dist 3,098.4297'

Point 51 N 1,826,570.2567 E 2,336,318.4150 Sta 40+98.4297

Ending chain MOLINERD description



HORIZONTAL CONTROL POINT No. 101



HORIZONTAL CONTROL POINT No. 102

HORIZONTAL CONTROL POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
101	1825915.762	2335046.173	595.66	MOLINERD	26+67.8455	19.7965' LT	VERTICAL CONTROL STATION, PIN
102	1826526.046	2336181.954	590.04	MOLINERD	39+57.1931	25.0683' LT	VERTICAL CONTROL STATION, PIN

SURVEY WORK POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
101	1825915.762	2335046.173	595.66	MOLINERD	26+67.8455	19.7965' LT	GPS CONTROL POINT, PIN
102	1826526.046	2336181.954	590.04	MOLINERD	39+57.1931	25.0683' LT	GPS CONTROL POINT, PIN
103	1825244.639	2333780.171	590.563	MOLINERD	12+34.9594	21.9822' LT	TRAVERSE STATION, PIN
104	1825702.761	2334747.395	594.844	MOLINERD	23+04.0289	27.9028' RT	TRAVERSE STATION, 60D NAIL
110	1826191.957	2334923.143	587.984	MOLINERD	26+88.9664	321.4154' LT	TRAVERSE STATION, PIN
111	1825636.906	2334920.222	591.061	MOLINERD	24+25.6701	167.2207' RT	TRAVERSE STATION, 60D NAIL
112	1824934.1155	2334900.7358	592.5062	MOLINERD	20+78.3539	778.5027' RT	TRAVERSE STATION, PIN
113	1825813.467	2334975.467	581.052	MOLINERD	25+57.3752	37.2993' RT	TRAVERSE STATION, PIN

REFERENCE TIES				
POINT	CHAIN	STATION	OFFSET	DESCRIPTION
500	MOLINERD	26+98.9270	67.6258' LT	PIN
501	MOLINERD	27+23.5183	19.7687' LT	PIN
502	MOLINERD	26+80.0876	19.3343' RT	PIN
503	MOLINERD	39+02.7638	31.7403' RT	PIN
504	MOLINERD	39+57.9981	33.1354' RT	PIN
505	MOLINERD	40+13.6926	33.6335' RT	PIN

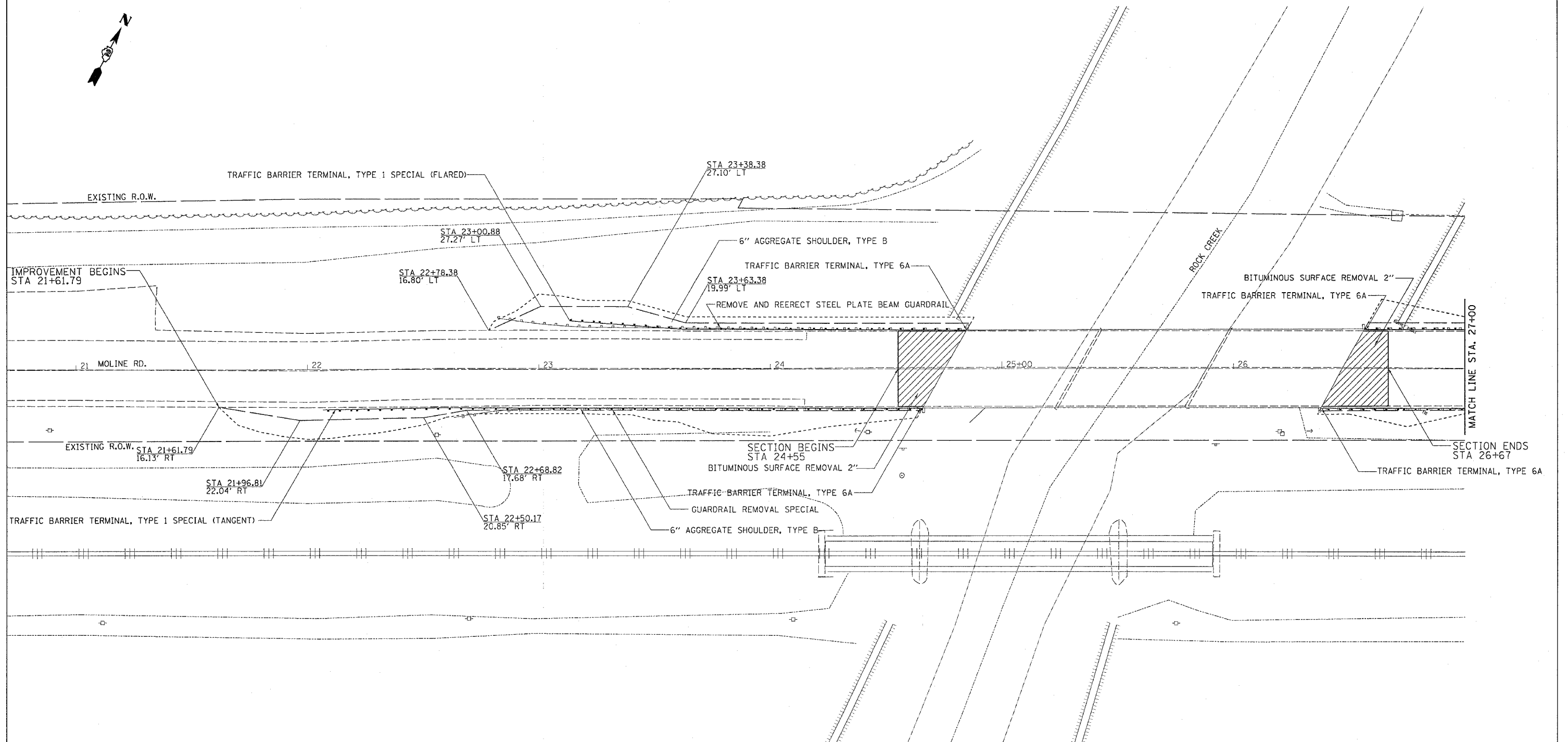
BENCH MARKS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
400	1825915.762	2335046.173	595.66	MOLINERD	26+67.8455	19.7965' LT	VERTICAL CONTROL STATION, PIN
401	1826526.046	2336181.954	590.04	MOLINERD	39+57.1931	25.0683' LT	VERTICAL CONTROL STATION, PIN

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
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PLOT DATE = Wed Oct 26 14:57:35 2005  
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	13BR-1	WHITESIDE	26	7
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

# PLAN SHEET



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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

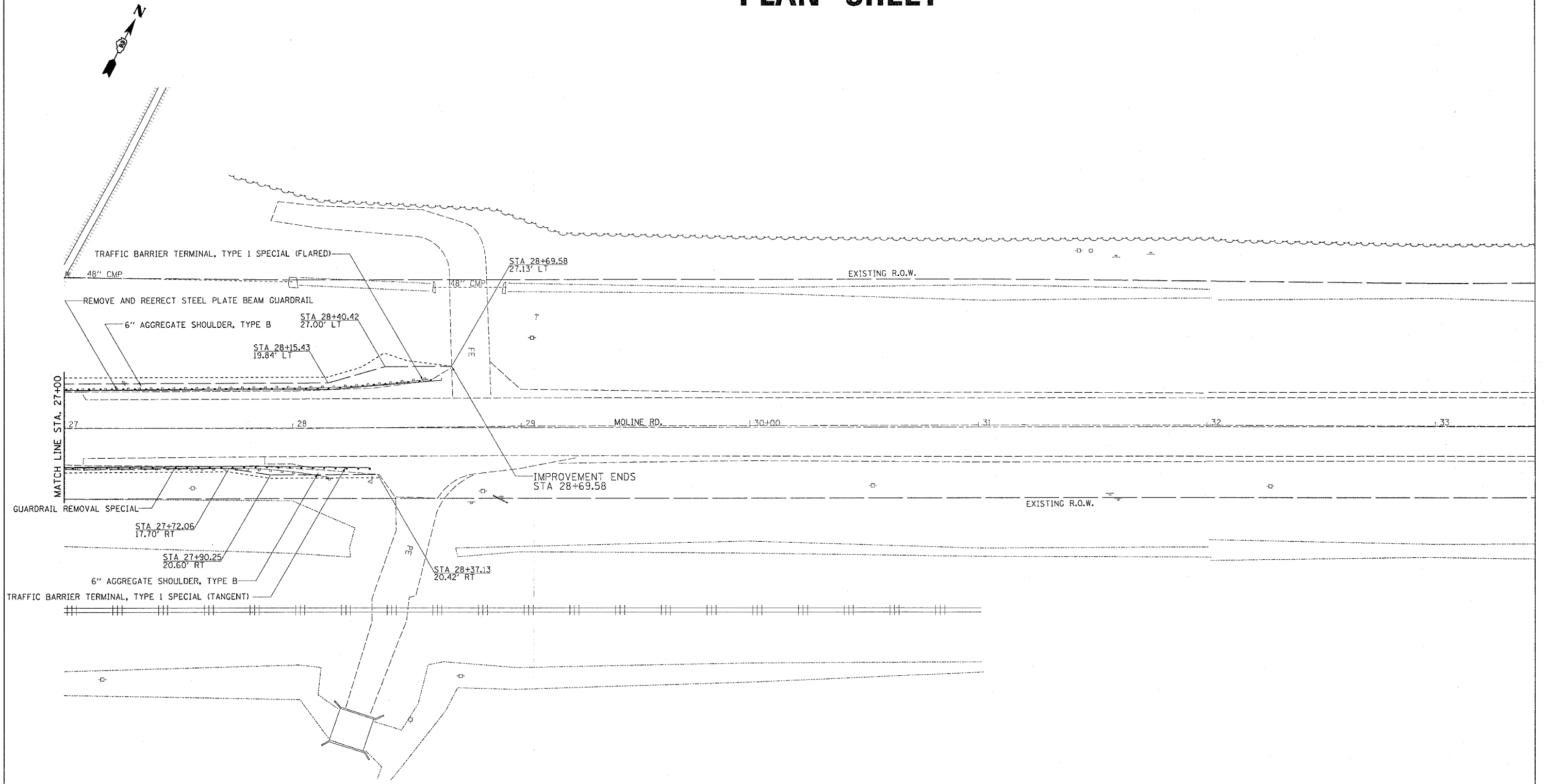
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	13BR-1	WHITESIDE	26	8
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

# PLAN SHEET

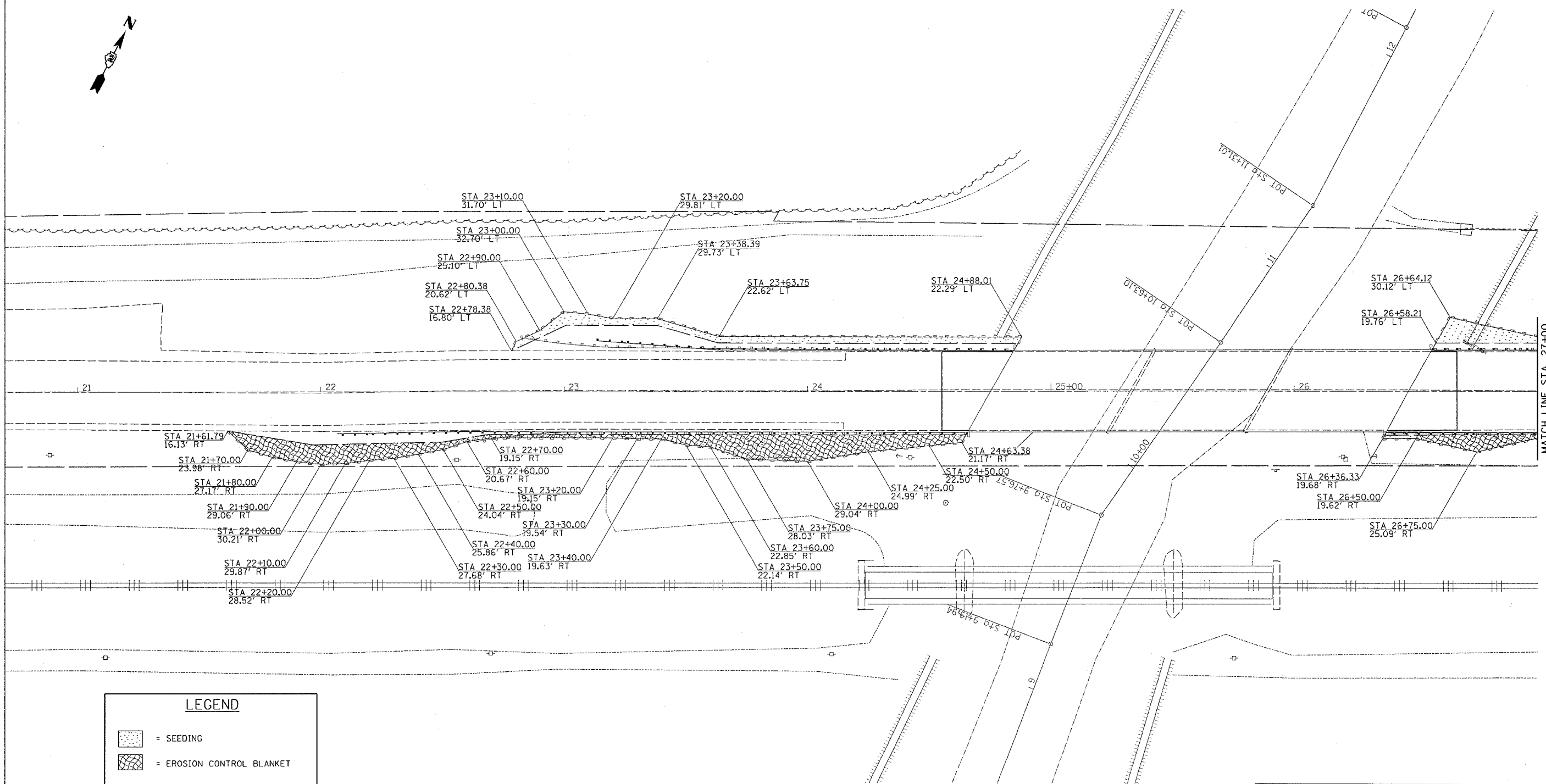


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REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		SCALE: VERT. HORIZ. DATE

# EROSION CONTROL DETAILS

CONTRACT NO. 64A51				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	13BR-1	WHITESIDE	26	9
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



LEGEND	
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	= EROSION CONTROL BLANKET
	= PERIMETER EROSION BARRIER

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

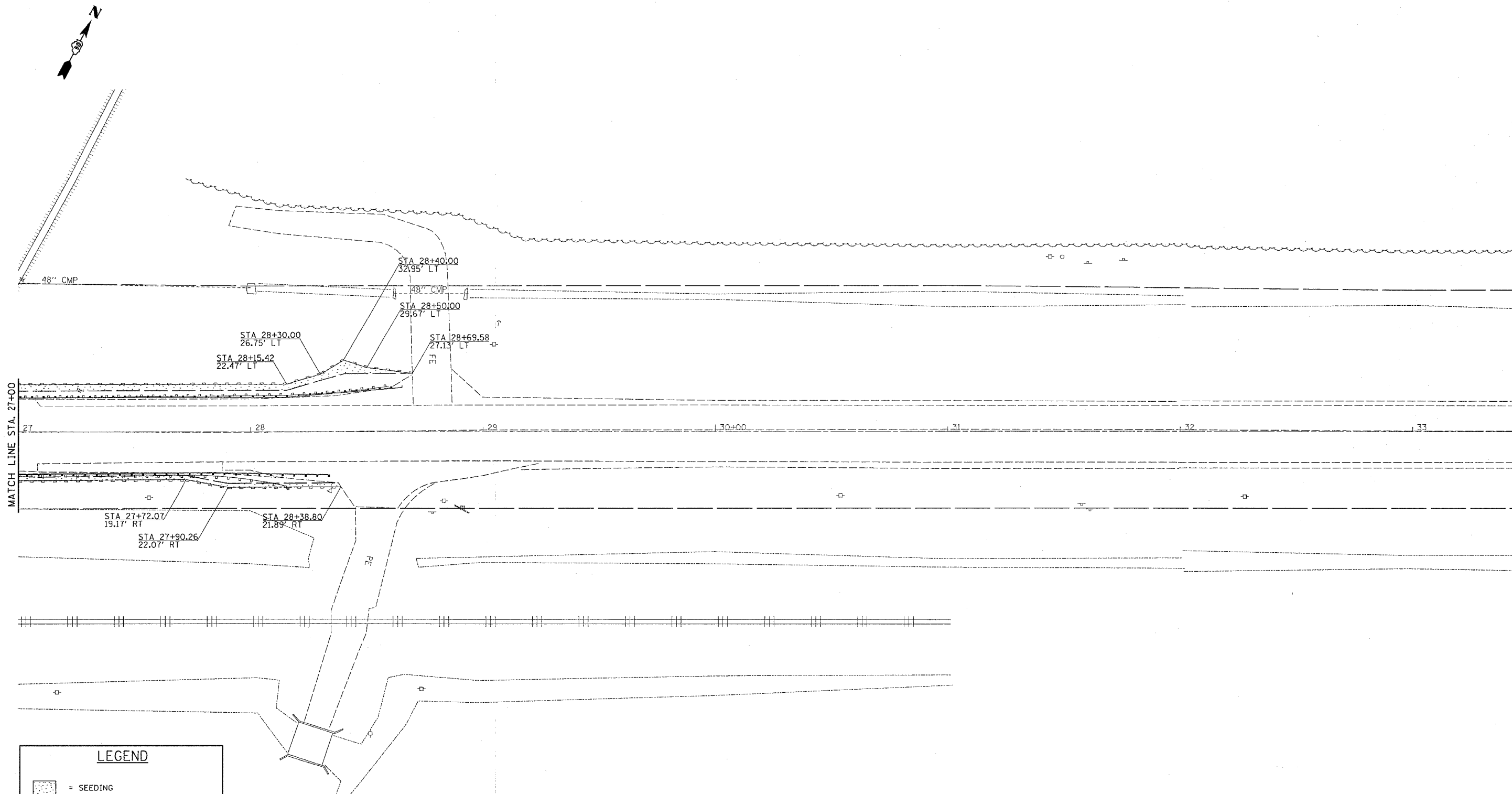
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 DATE \_\_\_\_\_

DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

## EROSION CONTROL DETAILS

# EROSION CONTROL DETAILS

CONTRACT NO. 64A51				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	13BR-1	WHITESIDE	26	10
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS		FED. AID PROJECT



LEGEND	
	= SEEDING
	= EROSION CONTROL BLANKET
	= PERIMETER EROSION BARRIER

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_

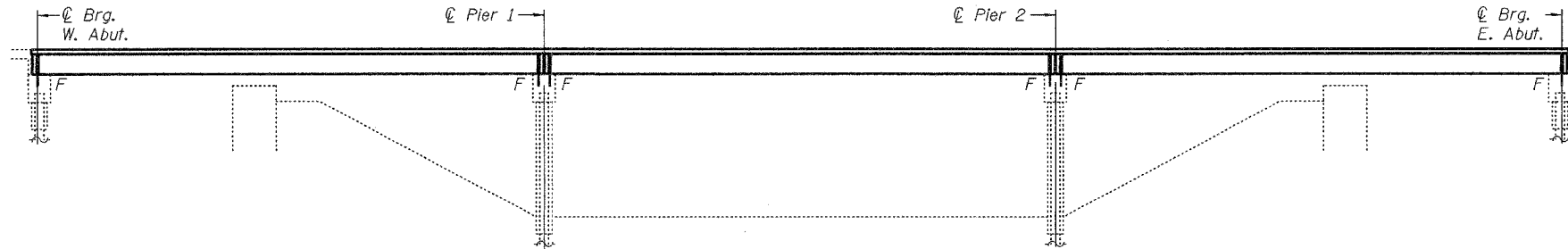
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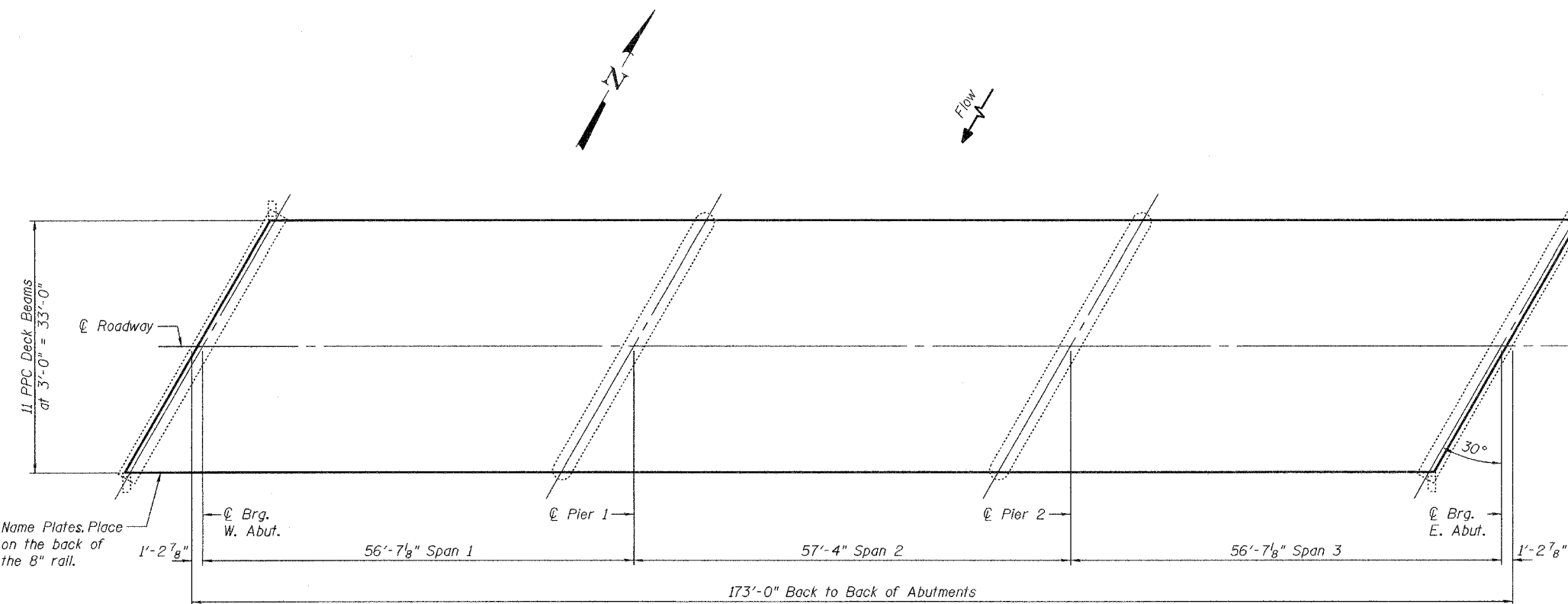
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		Whiteside	11	1
SHEET NO. 1 5 SHEETS				

Contract Number: 64A51



ELEVATION



PLAN

GENERAL NOTES

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

The minimum thickness of the Concrete overlay shall be 5" and varies as required to adjust for the new profile grade and beam camber. Reinforcement bars shall conform to AASHTO M31 or M322, Grade 60. The cut strands at each beam end shall be given two coats of zinc dust spray or paint meeting the requirements of ASTM A780. The zinc dust spray or paint shall be applied before corrosion appears and allowed to dry according to manufacturer's specifications prior to another coat of zinc. A concrete sealer meeting the requirements of Section 587 of the Standard Specifications shall be applied to the exterior face and 9" in on the underside of each fascia beam. The sealer shall be applied after visible crack growth has subsided. This work shall be performed by the producer and included with the cost of the beam.

All construction joints shall be bonded. Repair of the pier caps shall be completed prior to placement of the new deck beams.

The contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the superstructure.

Existing wingwalls are to remain in place, care shall be taken as not to damage them during deck beam removal and replacement. Fill the space between existing wingwalls and new fascia beam with Preformed Joint Filler. Cost included in PPC Deck Beams (27").

Attach new Name plate to the backside of 8" Rail element. Existing name plate is to be removed, cleaned and relocated adjacent to new name plate. Cost included in the cost of Name Plates.

If the contractor's procedure for existing beam removal or placement of new beams involves placement of cranes or other heavy equipment on new beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, prepared and sealed by an Illinois Licensed Structural Engineer, verifying that the equipment and procedure used will not overstress the new beams. To distribute load to multiple beams and protect the concrete, in all cases a double layer mat of heavy timbers shall be used at all times under crane tracks or wheels and any outriggers in the down position. If necessary, shims shall be used under the crane mat to ensure uniform contact with the underlying beams. Prior to placement of the timber mats the following shall be done: placement and tightening of transverse tie assemblies, grouting and curing the dowel rods 24 hours minimum and grouting and curing the shear keys. A temporary means of lateral restraint will be required for fascia beams at expansion ends of beams to prevent movement of the beams.

No in-stream work will be allowed on this project. Structure to be closed to traffic during construction.

STATION 537+62  
REBUILT 20 BY  
STATE OF ILLINOIS  
F.A.S. RT. 203 SEC. 13BR-1  
LOADING HS20  
STR. NO. 098-0002

**LOADING HS20-44**  
No allowance for future wearing surface.  
**DESIGN SPECIFICATIONS**  
2002 AASHTO Standard Specifications

**DESIGN STRESSES**  
FIELD UNITS  
 $f'_c = 3,500$  psi  
 $f'_c = 5,000$  psi (Concrete Wearing Surface)  
 $f_y = 60,000$  psi (Reinforcement)  
PRECAST PRESTRESSED UNITS  
 $f'_c = 5,000$  psi  
 $f'_ci = 4,000$  psi  
 $f'_s = 270,000$  psi ( $\frac{1}{2}$ "  $\phi$  low lax strands)  
 $f'_si = 201,960$  psi ( $\frac{1}{2}$ "  $\phi$  low lax strands)

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Polymer Modified Portland Cement Mortar	Sq. Ft.	2.1
Epoxy Crack Sealing	Foot	106
Protective Coat	Sq. Yd.	631
Removal of Existing Superstructures	Each	1
PPC Deck Beams (27" Depth)	Sq. Ft.	5,664
Reinforcement Bars, Epoxy Coated	Pound	7,630
Steel Bridge Rail, Type SM	Foot	346
Concrete Wearing Surface, 5"	Sq. Yd.	631
Bridge Deck Grooving	Sq. Yd.	620
Name Plates	Each	1

**NAME PLATE**  
(See Std. 515001)  
**PLAN AND ELEVATION**  
**MOLINE ROAD / ROCK CREEK**  
**F.A.S. RT. 203**  
**SEC. 13BR-1**  
**WHITESIDE COUNTY**  
**STA. 537+62.00**  
**SN 098-0002**

DESIGNED *Paul A. Johnson*  
CHECKED *Paul A. Johnson*  
DRAWN *Paul A. Johnson*  
CHECKED *PSS LST*

November 11, 2005  
EXAMINED *John A. Morris*  
PASSED *Ralph E. Adams*  
ENGINEER OF STRUCTURAL SERVICES  
ENGINEER OF BRIDGES AND STRUCTURES

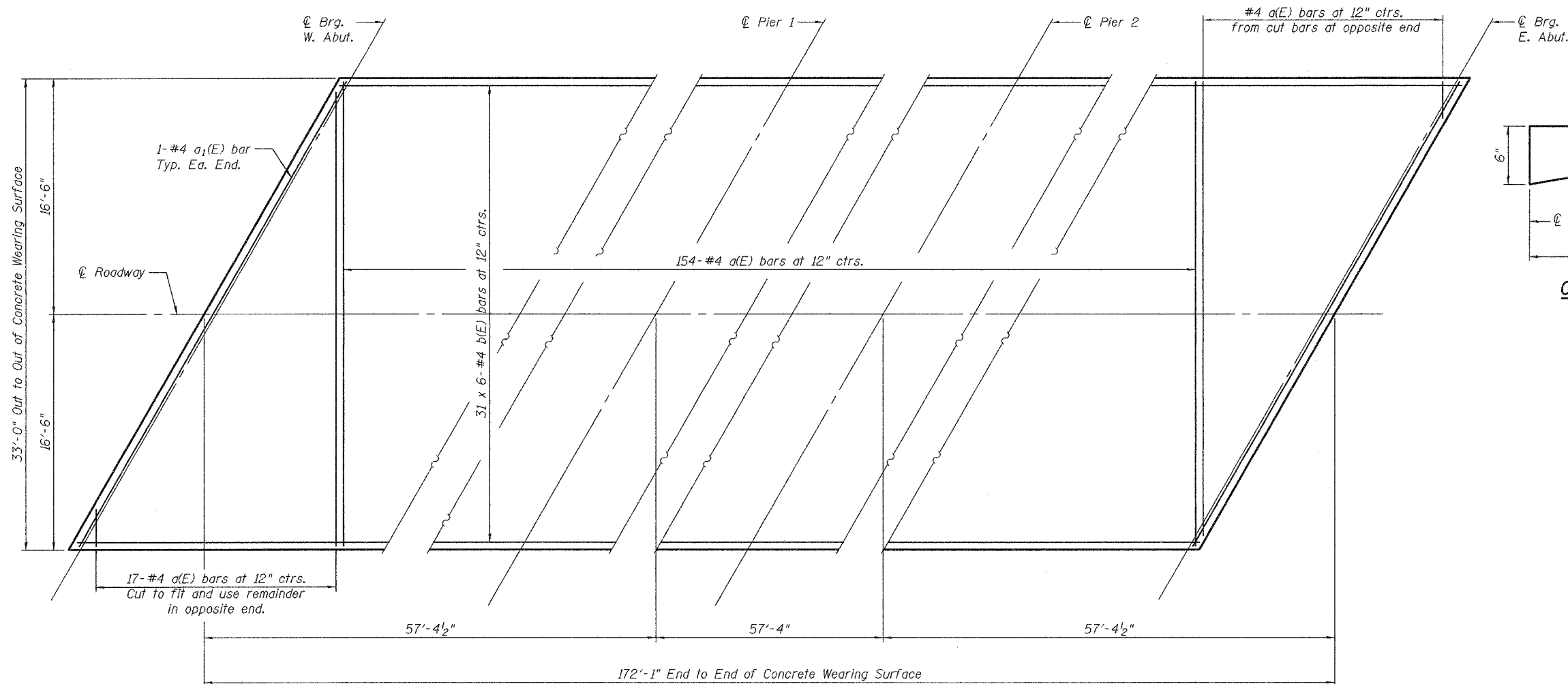


Expires: November 30, 2006

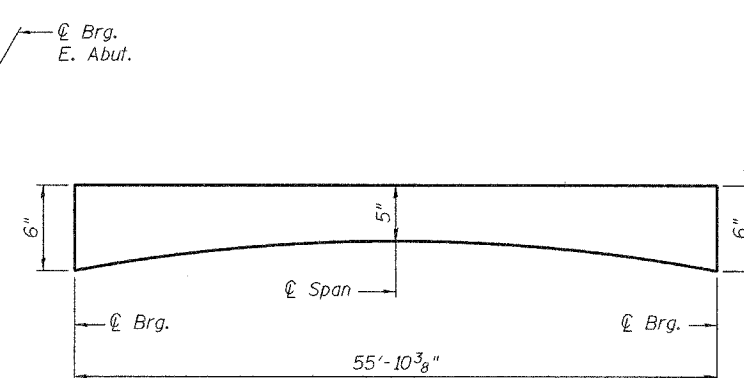
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO. 2
		Whiteside	12	5 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

Contract Number: 64A51

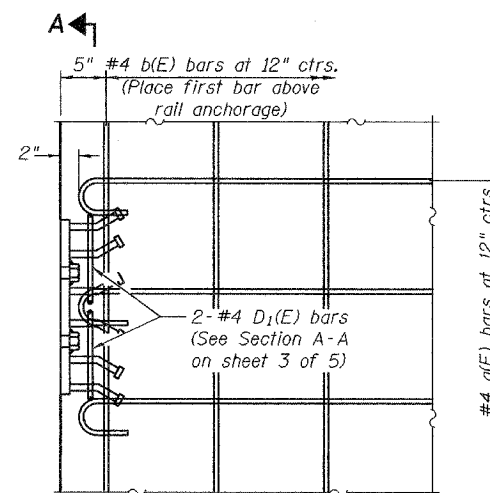


OVERLAY PLAN

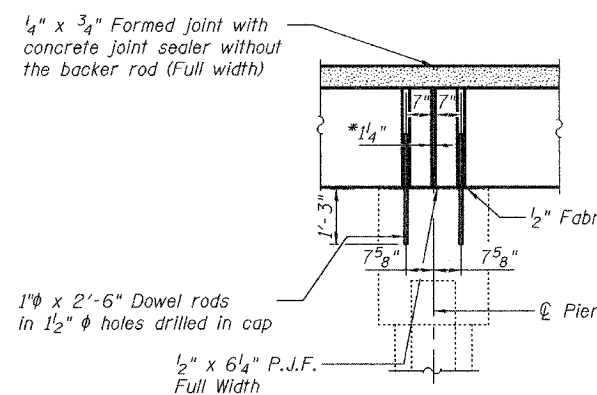


CONCRETE WEARING SURFACE PROFILE

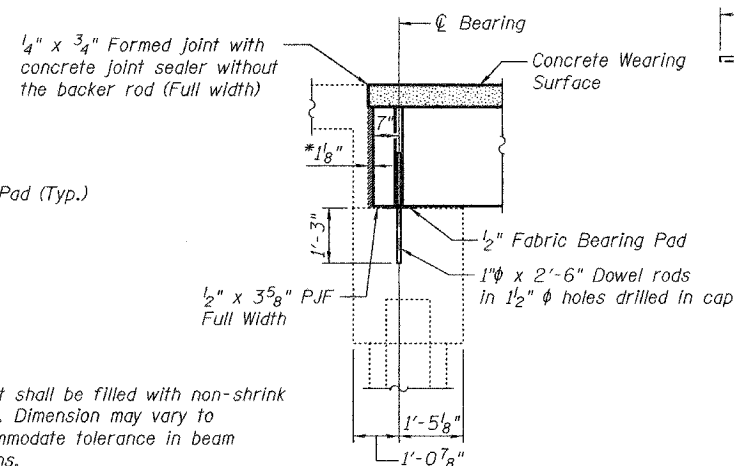
(Additional 1/4" thickness at  $\ominus$  Roadway to account for crown of Roadway.)



PARTIAL DECK PLAN AT RAIL ANCHORAGE



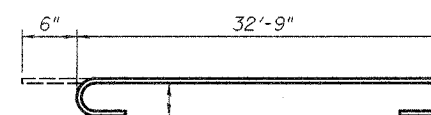
TYPICAL PIER SECTION



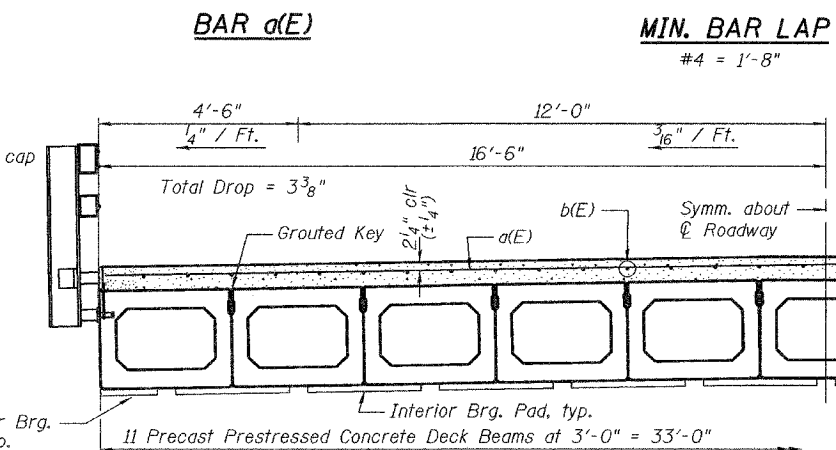
TYPICAL ABUTMENT SECTION

\*Joint shall be filled with non-shrink grout. Dimension may vary to accommodate tolerance in beam lengths.

Note:  
After beams have been erected, holes for dowel rods shall be drilled into substructure and dowel rods placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure a minimum of 24 hours prior to grouting the shear keys.  
Concrete wearing surface to be poured after grouting keys.



BAR a(E)



HALF CROSS SECTION

MIN. BAR LAP

#4 = 1'-8"

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	171	#4	33'-9"	
a1(E)	2	#4	37'-9"	
b(E)	186	#4	30'-0"	
Reinforcement Bars, Epoxy Coated		Pound	7,630	
Concrete Wearing Surface, 5"		Sq. Yd.	631	

Reinforcement bars designated (E) shall be epoxy coated.  
Bars indicated thus 1 x 2-#5 etc. indicates 1 line of bars with 2 lengths per line.

OVERLAY AND MISC DETAILS  
F.A.S. RT. 203  
WHITESIDE COUNTY  
SN 098-0002

DESIGNED	P.S.J.
CHECKED	S.J.B.
DRAWN	Drew Christopher
CHECKED	P.S.J. S.J.B.

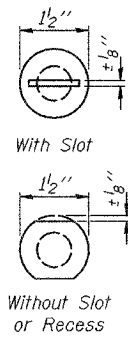
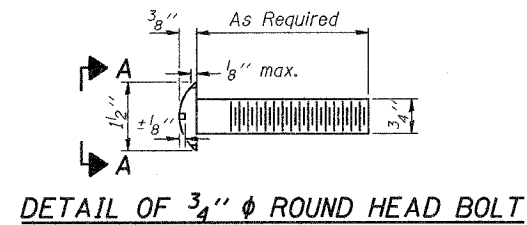
November 10, 2005  
EXAMINED *John A. Morris*  
ENGINEER OF STRUCTURAL SERVICES  
PASSED *Ralph E. Anderson*  
ENGINEER OF BRIDGES AND STRUCTURES



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	ISSUE SHEETS	SHEET NO.
		Whiteside	14	5
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

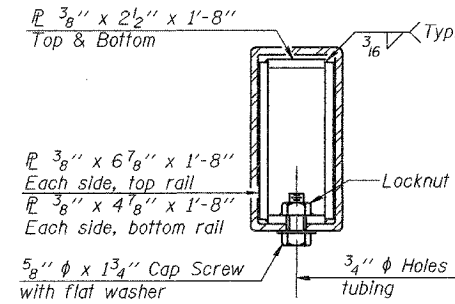
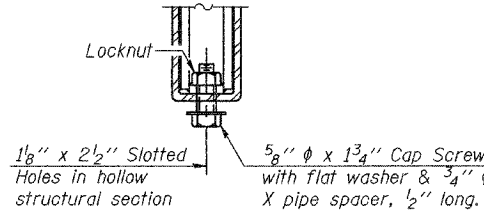
Contract Number: 64A51



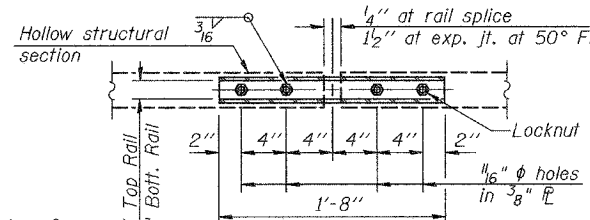
VIEW A-A

4-3/4"  $\phi$  x 6" Round Head Bolts  
(With slot or approved recess in head) with locknut & flat washer.  
7/8"  $\phi$  holes in hollow structural section may be drilled in the field.

RAIL SPLICE CONNECTION  
AT EXPANSION JT.

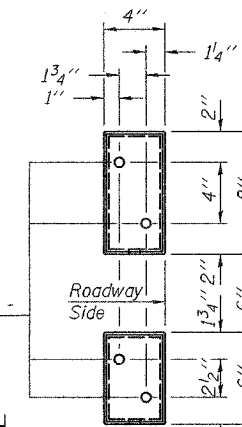


SECTION AT  
RAIL SPLICE

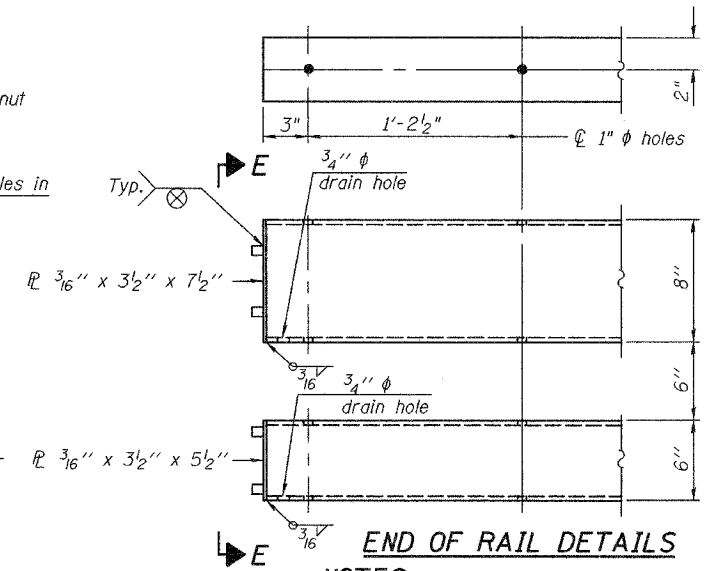


PLAN-BOTT. SPLICE TYPICAL

1/2" reduced base welded studs. Provide 4 - 5/8" washers and self-locking nuts or nuts and jam nuts for guardrail connection shown on Std. 6.310.32

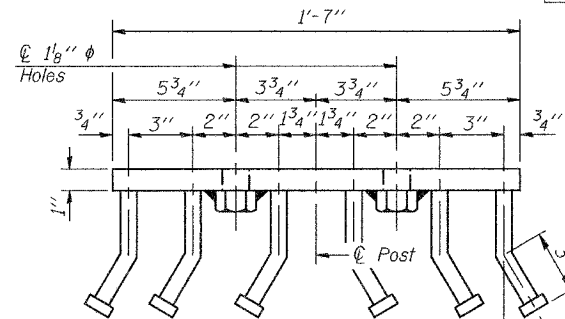


VIEW E-E

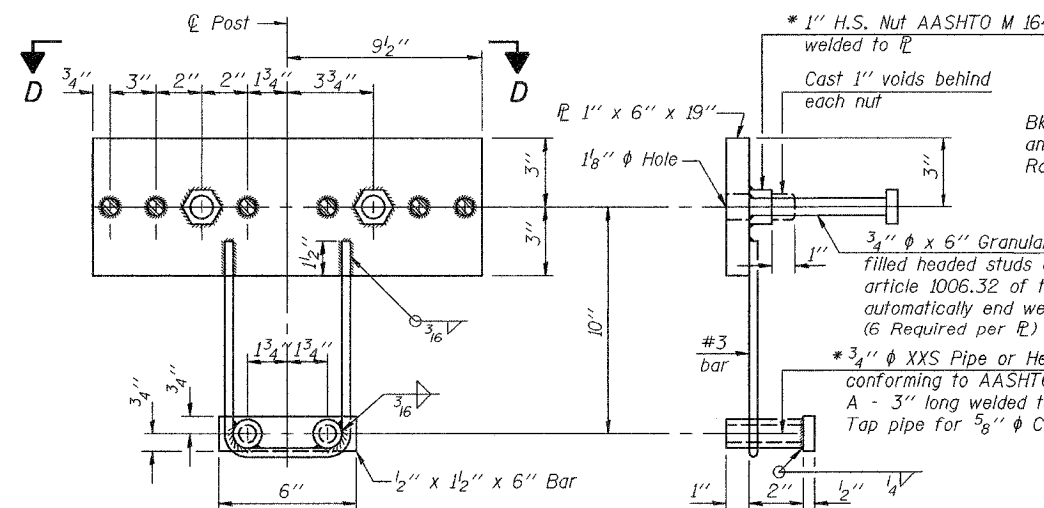


END OF RAIL DETAILS  
NOTES

Hollow structural sections shall conform to the requirements of ASTM designation A 500 Grade B Structural Steel Tubing and shall meet the longitudinal CVN requirements of 15 ft-lbs at 0° F.  
All other steel shapes and plates shall conform to the requirements of AASHTO M 270 Grade 36 except posts and angles shall conform to AASHTO M 270, Grade 50.  
Bolts, cap screws, and nuts shall conform to the requirements of ASTM designation A 307 except for high strength bolts, nuts and washers noted which shall conform to AASHTO M 164.  
All bolts, nuts, cap screws, washers and lock washers shall be galvanized according to AASHTO M 232.  
All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM A 385. Galvanized rail shall not be painted.  
Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per foot for Steel Bridge Rail, Type SM.  
All field drilled holes shall be coated with an approved zinc rich paint before erection.  
For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Bridge Rail, Type SM.  
The 3/4"  $\phi$  high strength bolts used to connect the 6 x 4 x 3/4 angles to the post shall be tightened according to Article 505.04(f)(2) of the Standard Specifications. The 1"  $\phi$  high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional 1/8 turn. The 5/8"  $\phi$  cap screws in bottom of posts shall be tightened to a snug fit only.

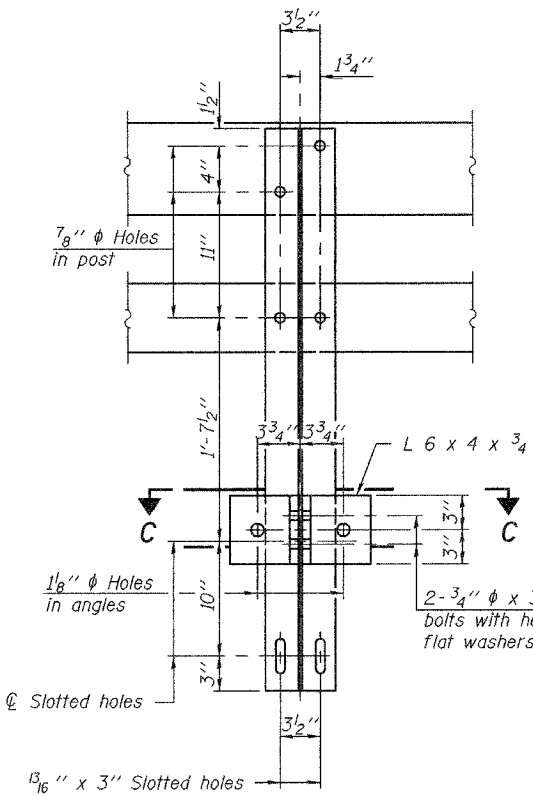


VIEW D-D

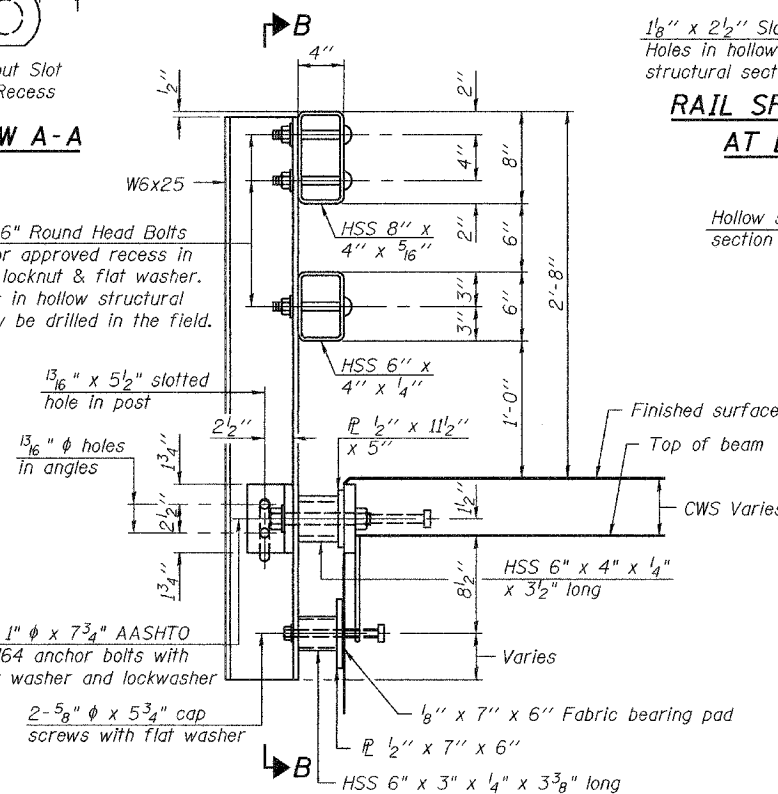


ANCHOR DEVICE

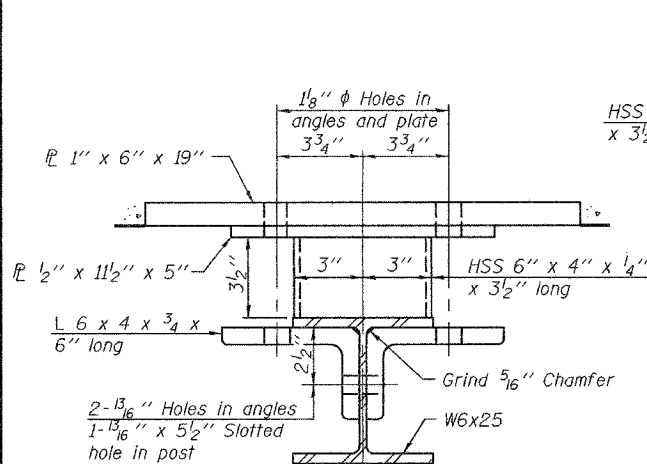
\* Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.



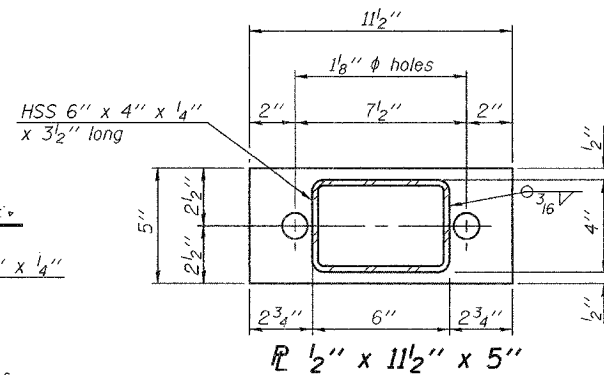
SECTION B-B



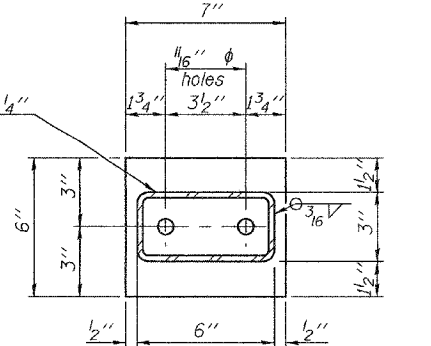
SECTION AT RAIL POST



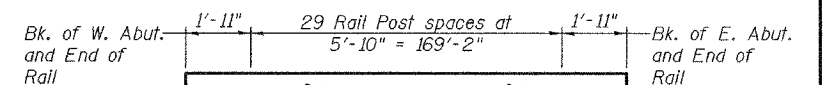
SECTION C-C



SECTION AT RAIL POST



SECTION AT RAIL POST



RAIL POST SPACING

BILL OF MATERIAL

Item	Unit	Quantity
Steel Bridge Rail, Type SM	Foot	346

DESIGNED	P.S.J.
CHECKED	S.J.B.
DRAWN	Drew Christopher
CHECKED	P.S.J. S.J.B.

EXAMINED	November 10, 2005
	John A. Morris
PASSED	Ralph E. Anderson

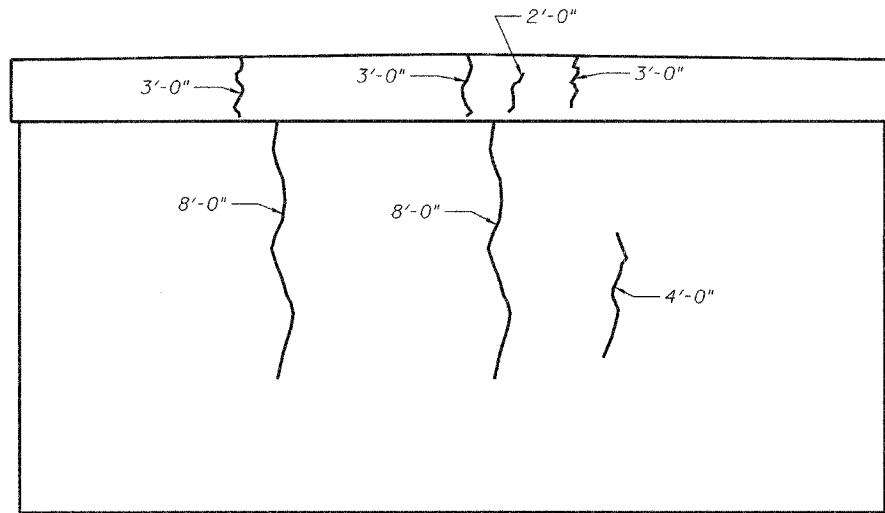
R-34CWS

10-28-05 (6'-3" Maximum Post Spacing) (5" minimum to 7'6" maximum CWS thickness)

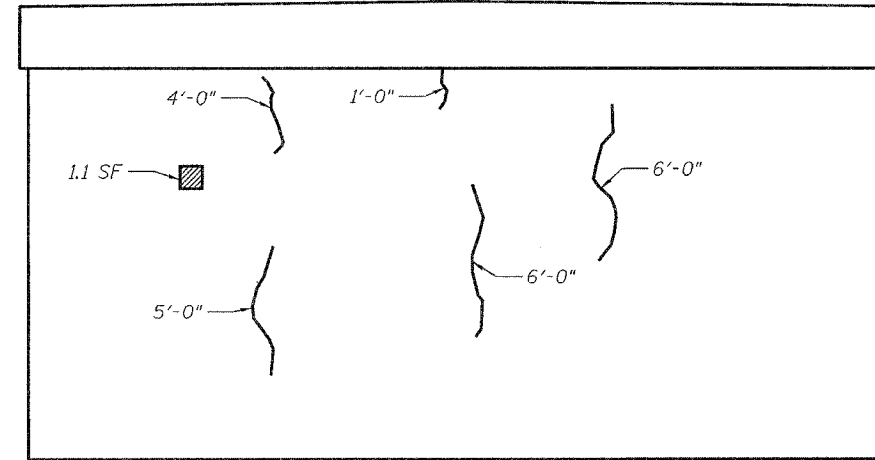
RAIL DETAILS  
F.A.S. RT. 203  
WHITESIDE COUNTY  
SN 098-0002

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

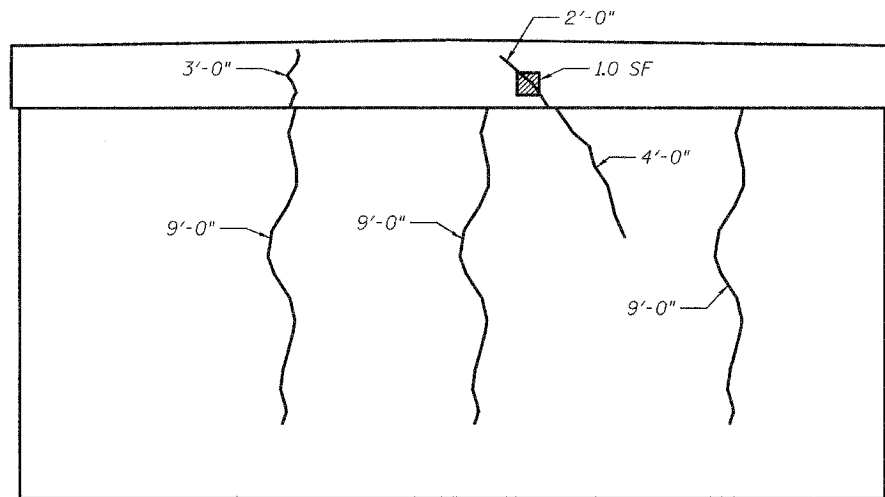
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 5 5 SHEETS
		Whiteside		15	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	Contract Number: 64A51		



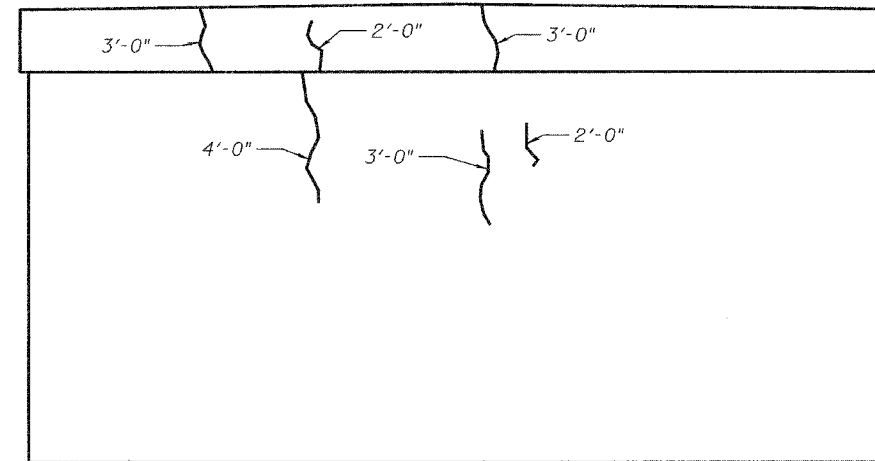
**PIER 1**  
(Looking East)



**PIER 2**  
(Looking East)



**PIER 1**  
(Looking West)



**PIER 2**  
(Looking West)

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Epoxy Crack Sealing	Foot	106
Polymer Modified Portland Cement Mortar	Sq. Ft.	2.1

**LEGEND**

- 1'-0" Epoxy Crack Sealing
- Polymer Modified Portland Cement Mortar

*Notes:*  
The quantities shown are for estimating purposes only.  
Area to be repaired will be determined by the Engineer  
at the time of construction. Actual repair locations shall  
be shown on the as-built plans.

DESIGNED	P.S.J.
CHECKED	S.J.B.
DRAWN	Drew Christopher
CHECKED	P.S.J. S.J.B.

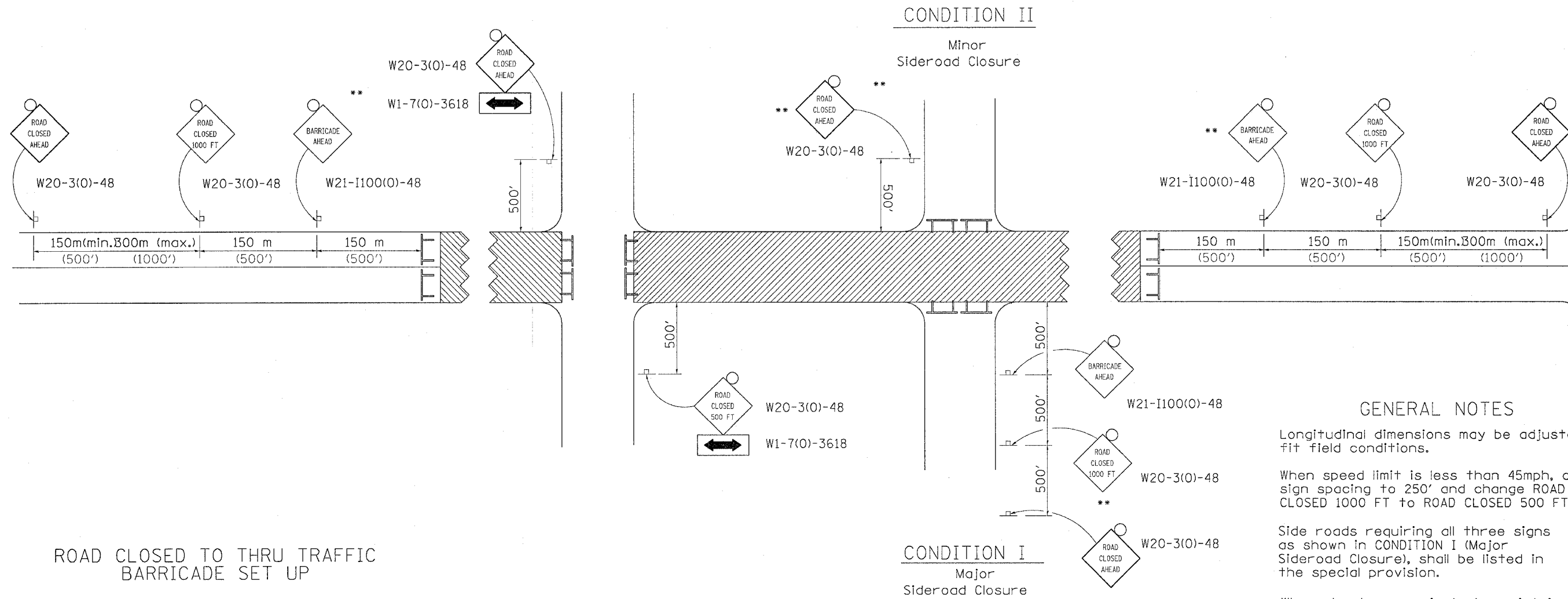
November 10, 2005  
EXAMINED *John A. Morris*  
ENGINEER OF STRUCTURAL SERVICES  
PASSED *Ralph E. Anderson*  
ENGINEER OF BRIDGES AND STRUCTURES

**CONCRETE REPAIR**  
**F.A.S. RT. 203**  
**WHITESIDE COUNTY**  
**SN 098-0002**



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	13BR-1	WHITESIDE	26	16
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

# TRAFFIC CONTROL FOR ROAD CLOSURE



### GENERAL NOTES

- Longitudinal dimensions may be adjusted to fit field conditions.
- When speed limit is less than 45mph, change sign spacing to 250' and change ROAD CLOSED 1000 FT to ROAD CLOSED 500 FT.
- Side roads requiring all three signs as shown in CONDITION I (Major Sideroad Closure), shall be listed in the special provision.
- \*\* Where local access is to be maintained, barricades are to be set up as shown in Road Closed to thru traffic.
- Type III Barricades and R11-2-4830 signs shall be as shown in "Road Closed To All Traffic" detail on Highway Standard 702001.

### SYMBOLS

- Work area
- Type III Barricade with Flashers
- Sign with flashing light

Type III Barricades and R11-4-4830 signs shall be as shown in "Road Closed To All Thru Traffic" detail on Highway Standard 702001. If the distance "D" exceeds 600 m (2000') an additional set of barricades and R11-4-4830 shall be placed at each end of the work area.

All dimensions are in millimeters (inches) unless otherwise shown.

TYPICAL APPLICATION FOR ROAD CLOSURE

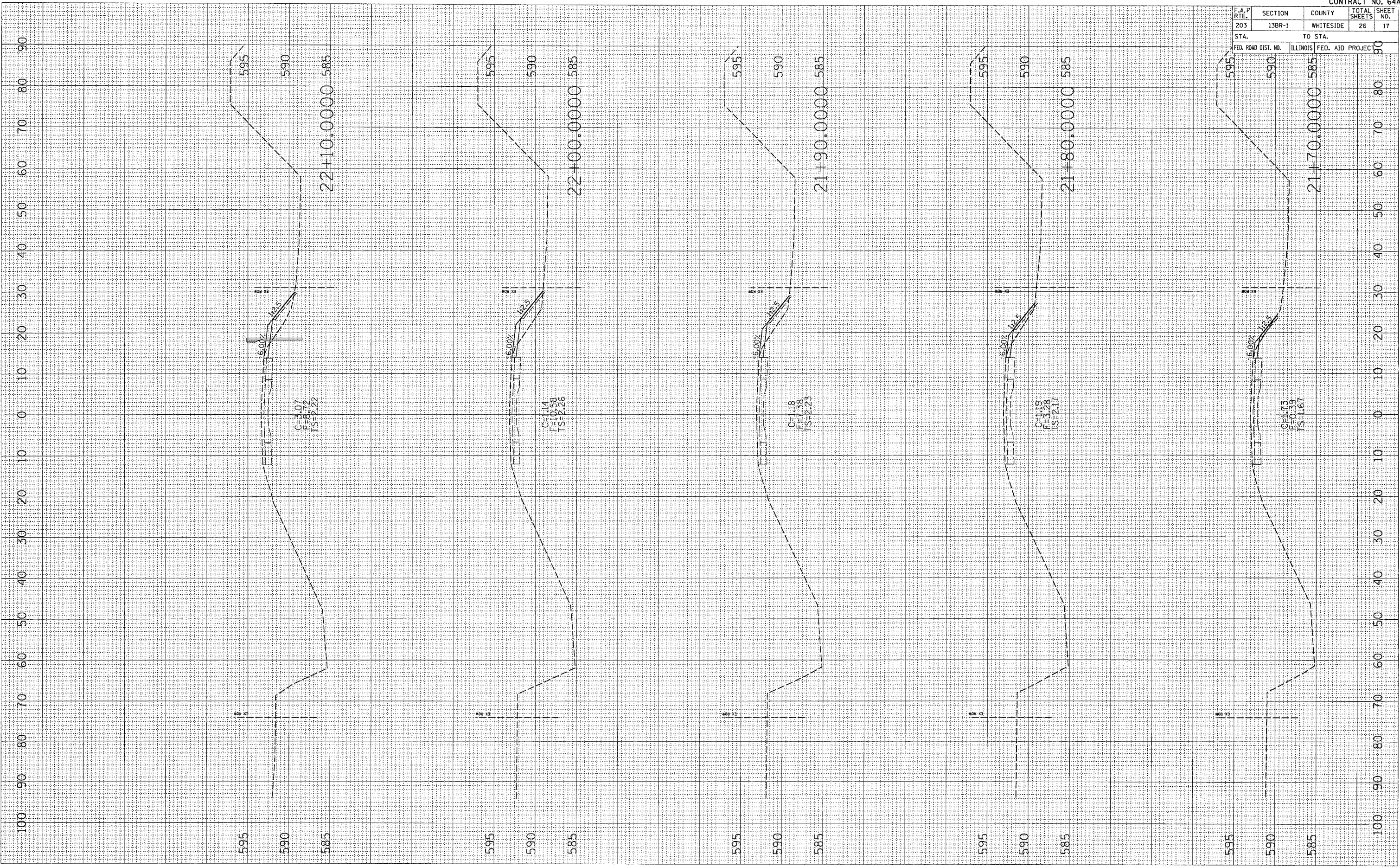
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 FILE NAME = 22060805-080505-001.dgn  
 PLOT SCALE = 50.0000 / IN.  
 REFERENCE = REF#

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	13BR-1	WHITESIDE	26	17
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FINAL SURVEY	NO. _____
SURVEYED	DATE _____
NOTE BOOK	TOPIC _____
AREAS CHECKED	AREAS CHECKED _____

ORIGINAL SURVEY	NO. _____
SURVEYED	DATE _____
NOTE BOOK	TOPIC _____
AREAS CHECKED	AREAS CHECKED _____

PLOT DATE = Wed Oct 26 13:47:39 2005  
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 PLOT SCALE = 1/8"=1'-0" / IN.  
 USER NAME = rjg@pwr1

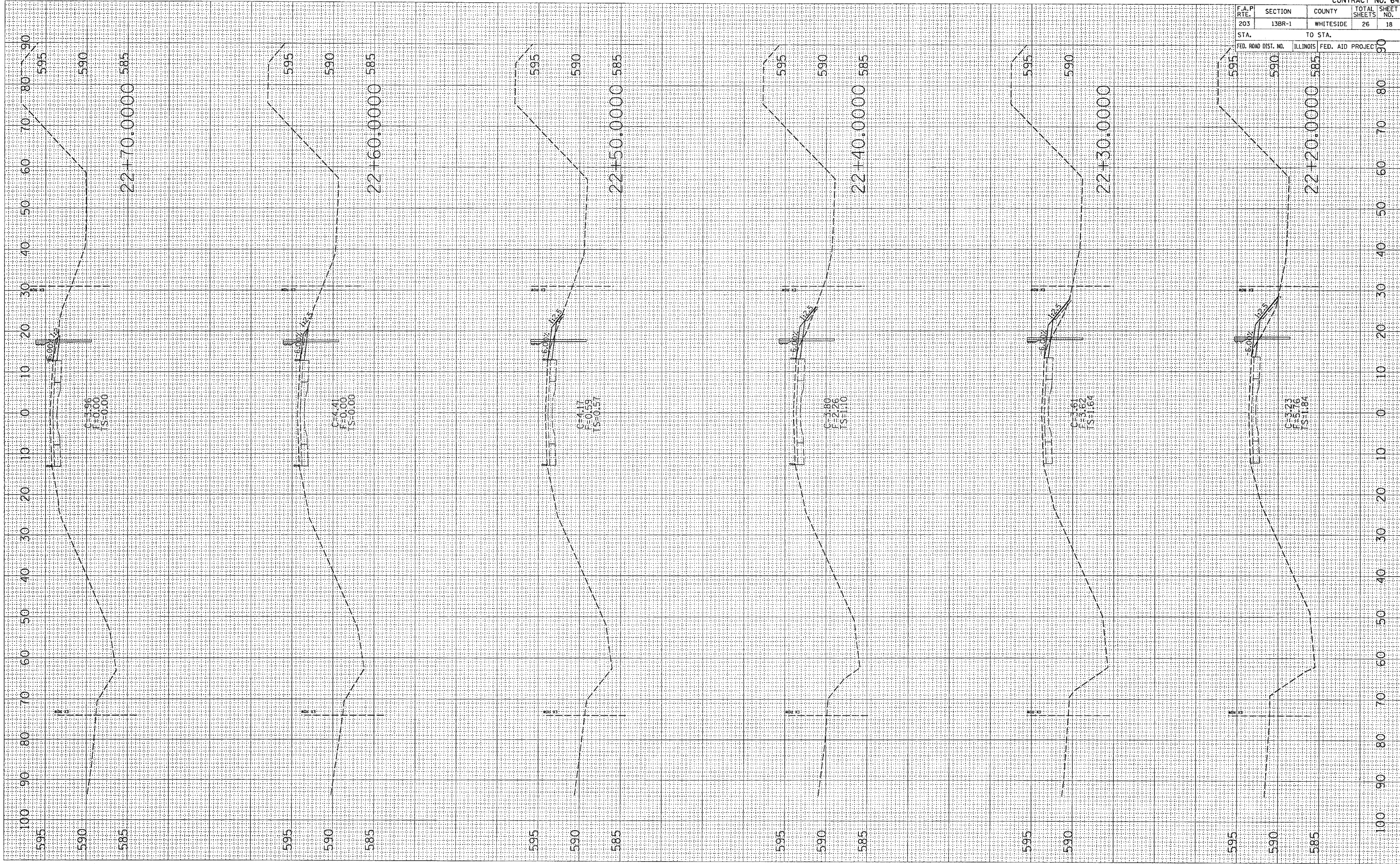


PLOT DATE : Wed Oct 26 13:47:38 2005  
 FILE NAME : c:\projects\2209085\2209085.dwg  
 USER NAME : jguyard

ORIGINAL SURVEY PLOTTED  
 NOTE BOOK AREAS CHECKED

FINAL SURVEY PLOTTED  
 NOTE BOOK AREAS CHECKED

BY: \_\_\_\_\_ DATE: \_\_\_\_\_



MOLINE RD

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	13BR-1	WHITESIDE	26	18

CONTRACT NO. 64A5

STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJ.
595	590			

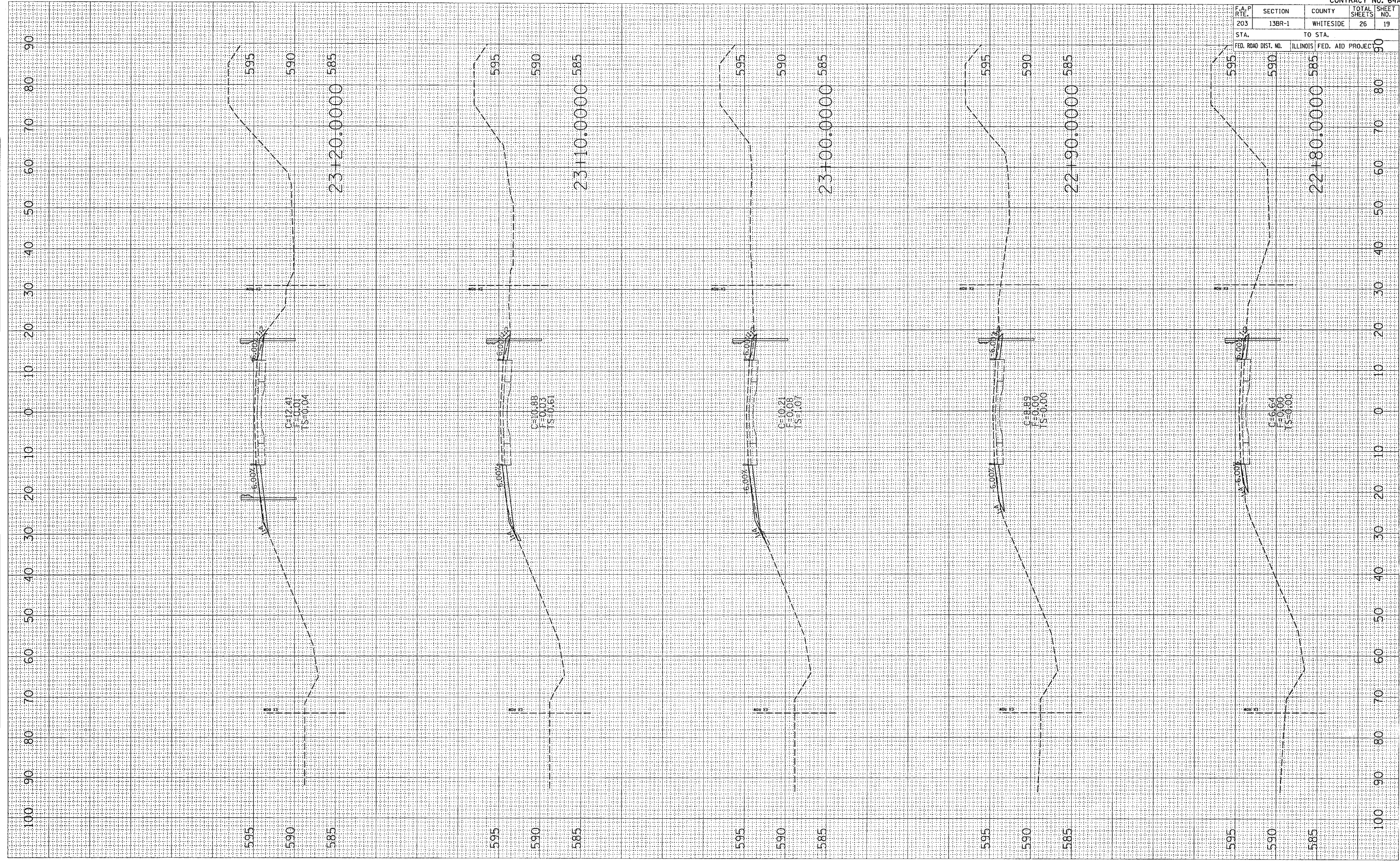
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	13BR-1	WHITESIDE	26	19

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

FINAL SURVEY  
 SURVEYED BY  
 NOTE BOOK NO.  
 TEMPLATE AREAS CHECKED

ORIGINAL SURVEY  
 SURVEYED BY  
 NOTE BOOK NO.  
 TEMPLATE AREAS CHECKED

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 PLOT SCALE: 1/8" = 1'-0"  
 USER NAME: rjg

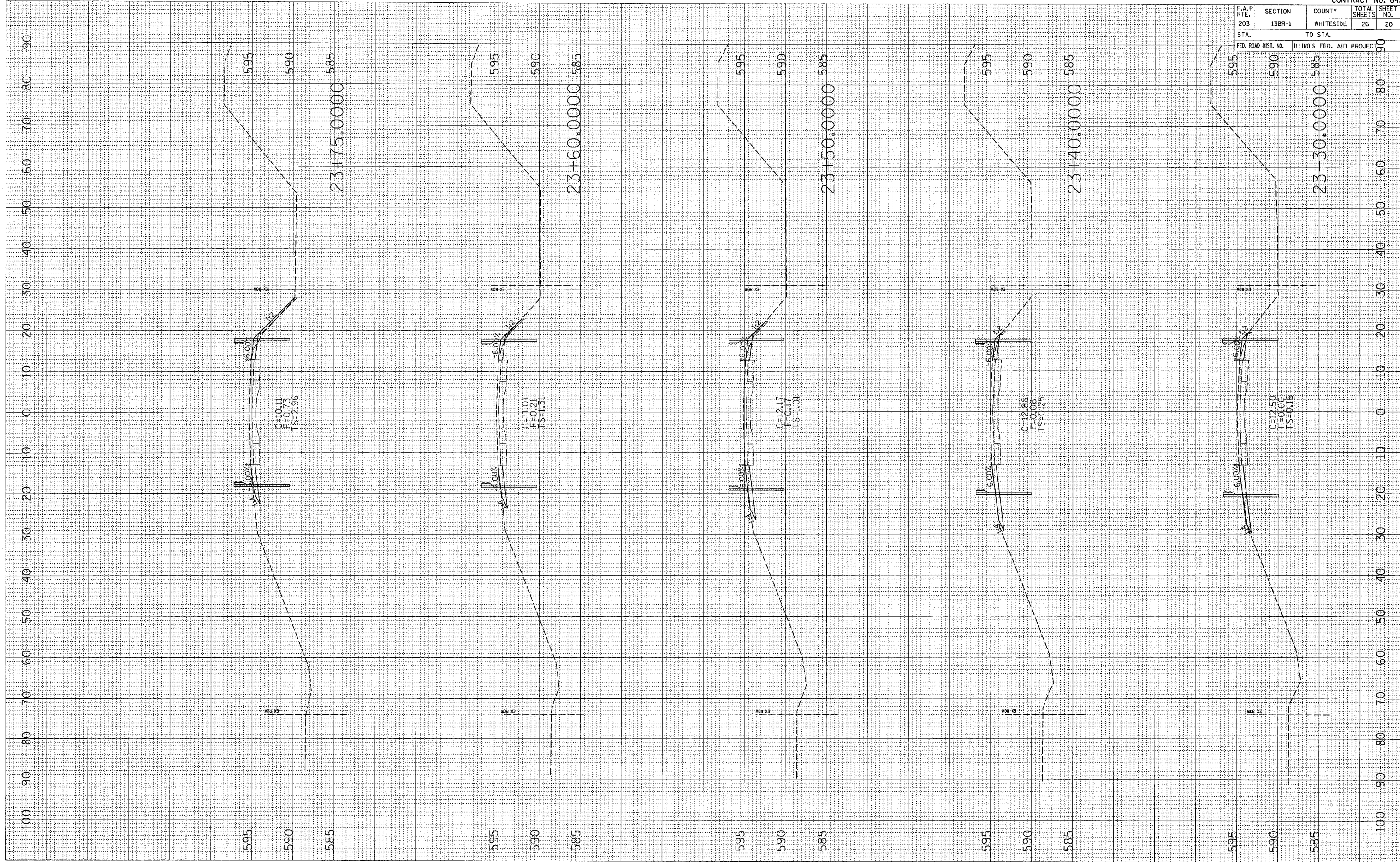


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	13BR-1	WHITESIDE	26	20
STA. TO STA.		ILLINOIS FED. AID PROJECT		

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

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

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 USER = j...

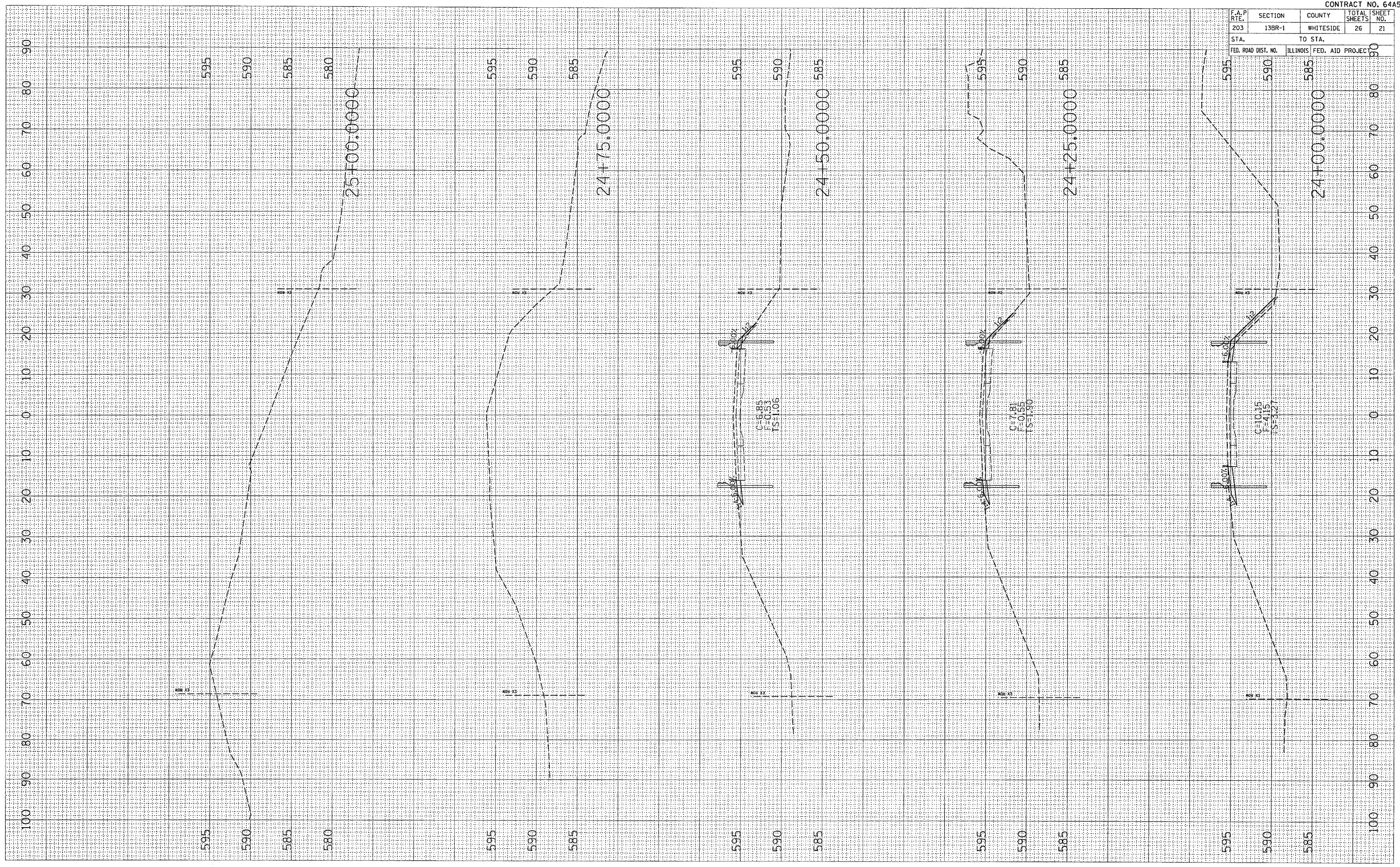


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	13BR-1	WHITESIDE	26	21
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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

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

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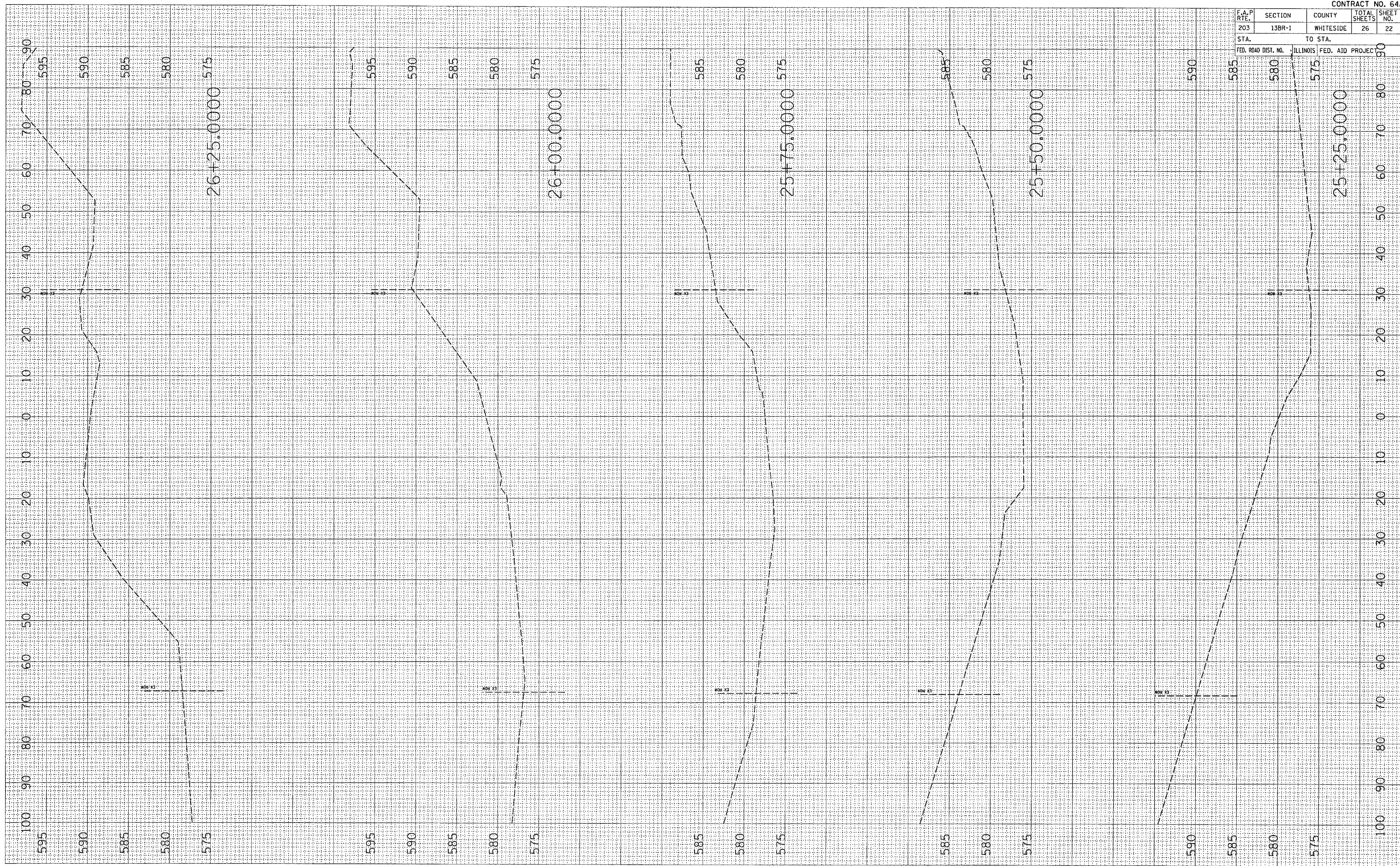
MOLINE RD

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	13BR-1	WHITESIDE	26	22
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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

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

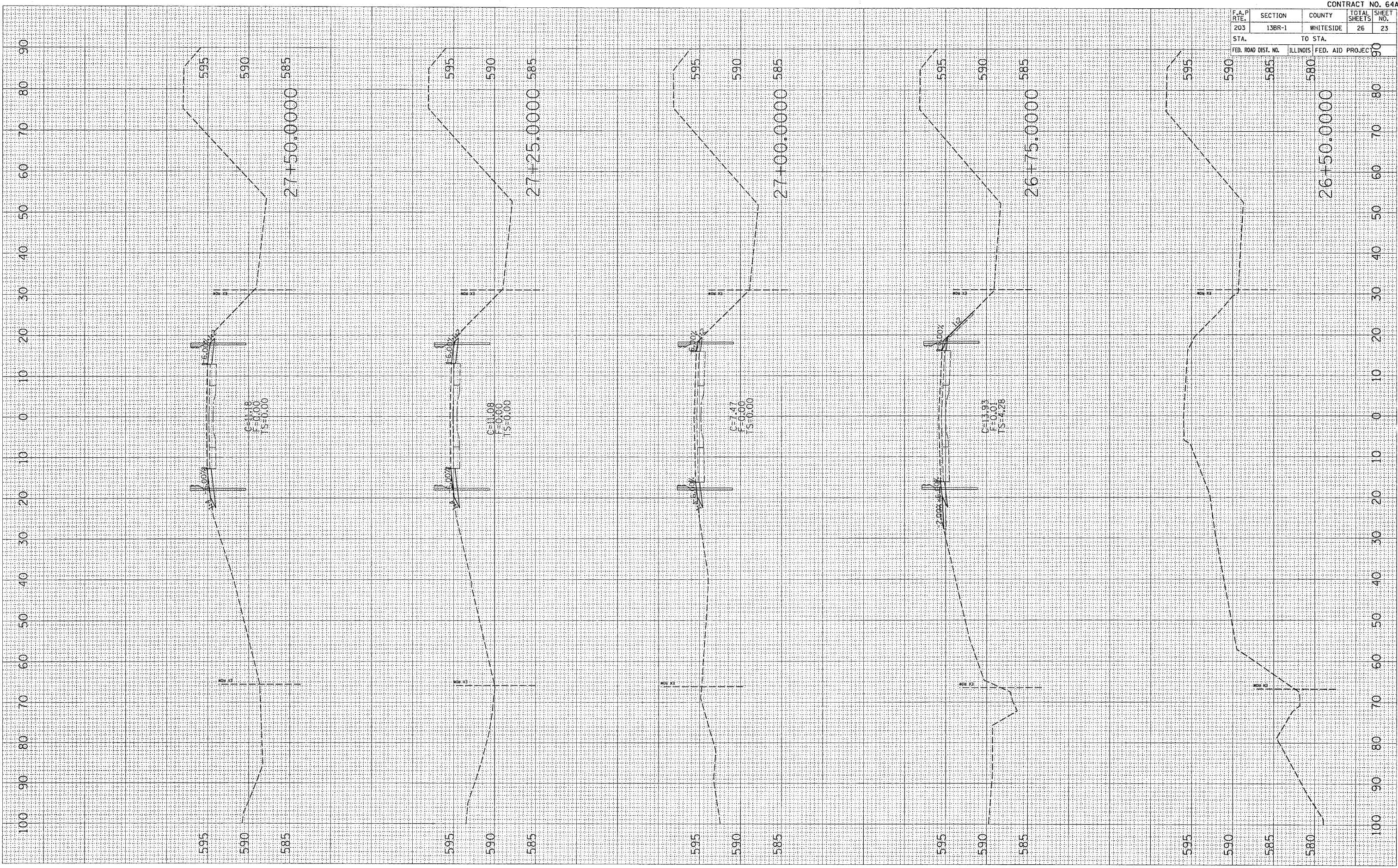
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 USER NAME = rjg



PLOT DATE : Wed Oct 26 13:47:32 2005  
 FILE NAME : c:\projects\p2602285\600505.mxd  
 PLOT SCALE : 1/8"=1'-0"  
 USER NAME : jrgm1

ORIGINAL SURVEY  
 SURVEYED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SURVEYED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 NOTE BOOK NO. \_\_\_\_\_  
 TEMPLATE AREAS CHECKED

FINAL SURVEY  
 SURVEYED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SURVEYED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 NOTE BOOK NO. \_\_\_\_\_  
 TEMPLATE AREAS CHECKED



MOLINE RD

CONTRACT NO. 64A51				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	13BR-1	WHITESIDE	26	23
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

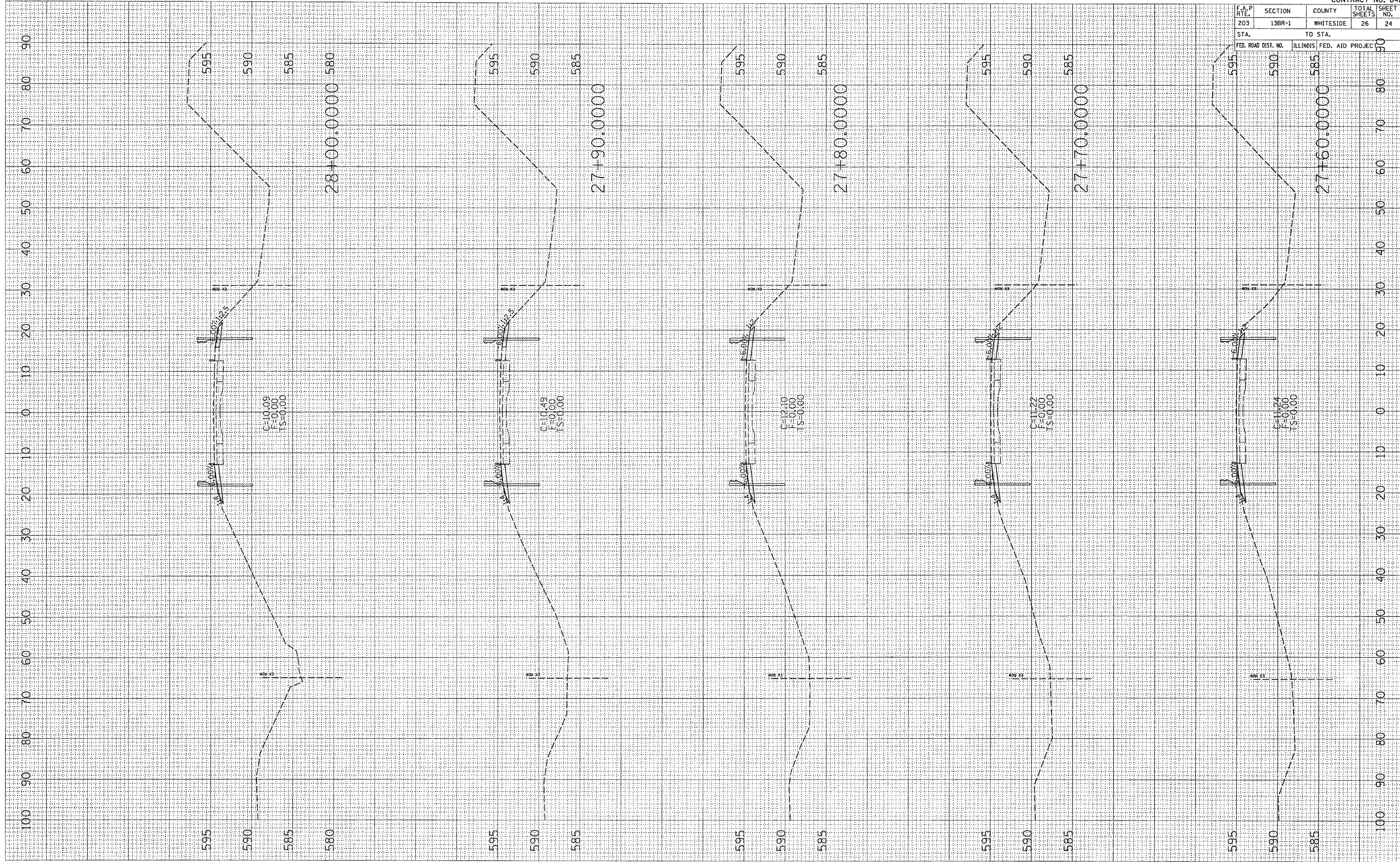


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	13BR-1	WHITESIDE	26	24
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = Wed Oct 26 13:47:33 2005  
 FILE NAME = c:\projects\200505\480950\mold\mold.dwg  
 USER NAME = jrg  
 USER NAME = jrg



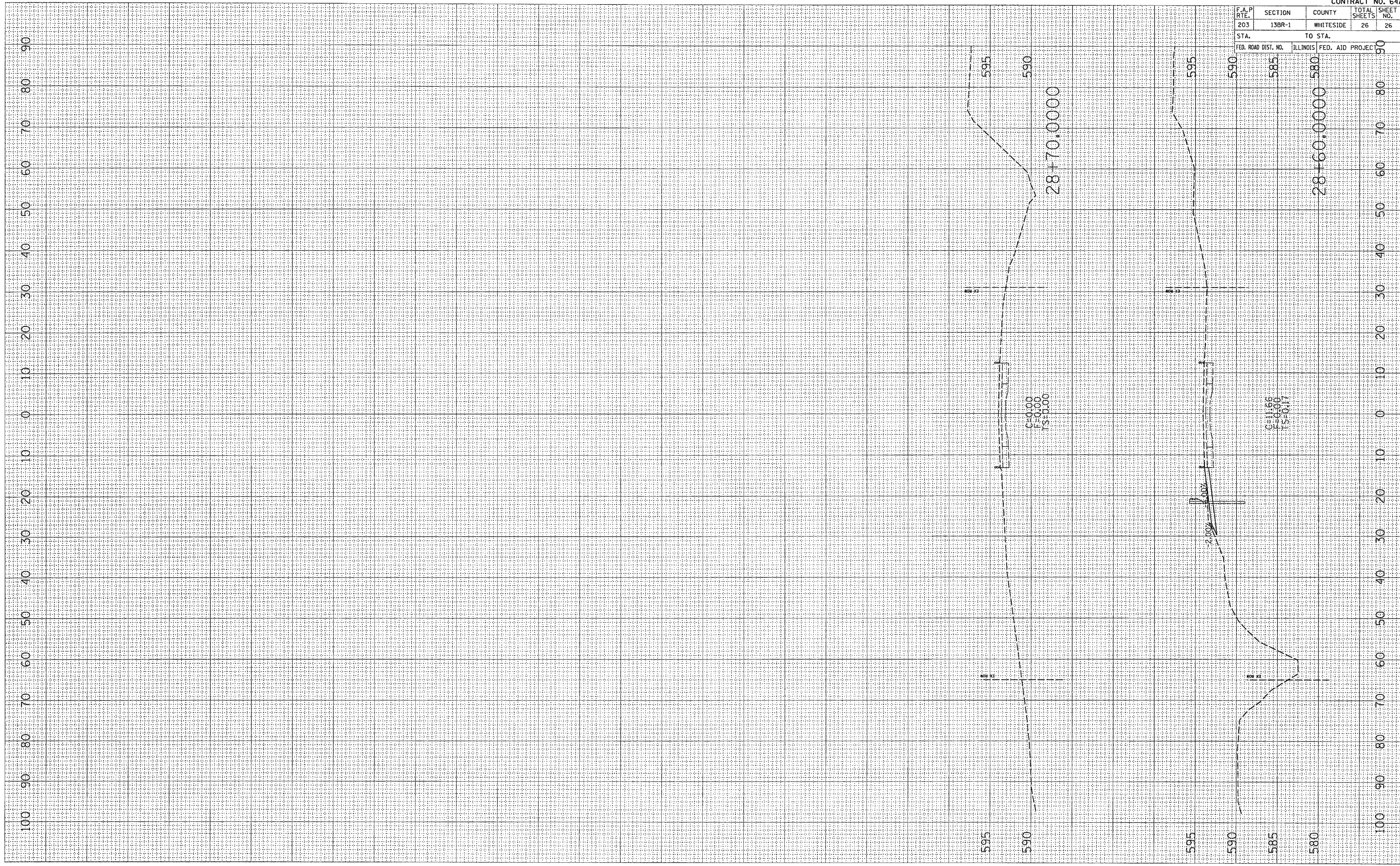


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	13BR-1	WHITESIDE	26	26
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = Wed Oct 26 13:47:34 2005  
 PLOT SCALE = 1/4" = 100'  
 USER NAME = rajpoo1



MOLINE RD