

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	(19B-1) M	ROCK ISLAND	29	1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

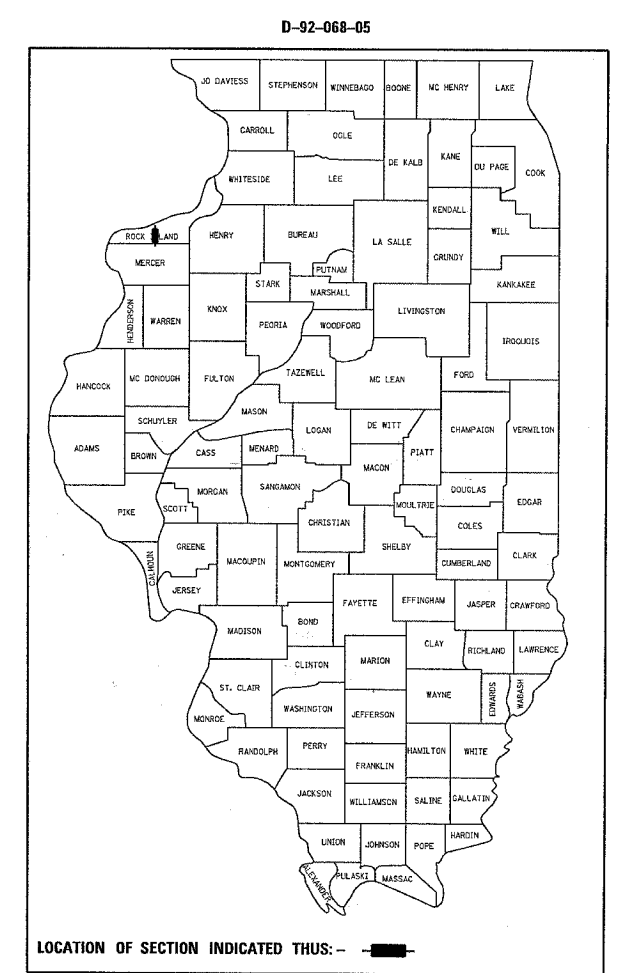
**PROPOSED
HIGHWAY PLANS**

FAS ROUTE 221 (IL94)
SECTION (19B-1) M
PROJECT BHS- 221(105)
ROCK ISLAND COUNTY
C-92-022-06

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR STATE STANDARDS, SEE SHEET NO. 2

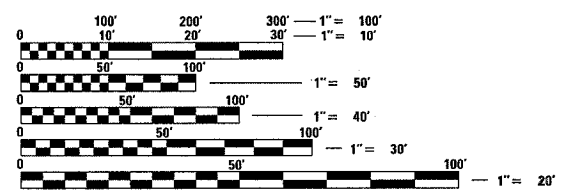
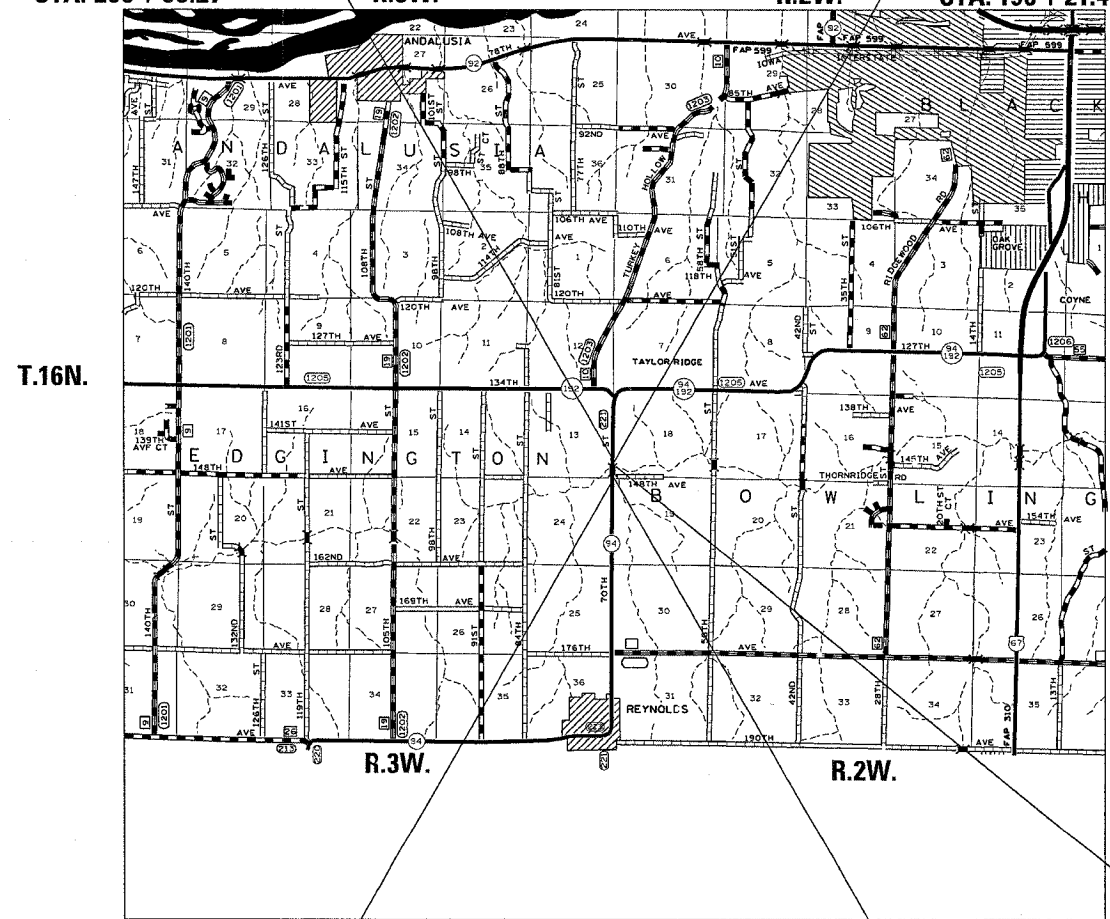
PROJECT ENGINEER: BOB WAGNER

SENIOR SQUAD LEADER: SAMEER ABDULLAH (815) 284-5935



EDGINGTON TOWNSHIP SECTION 13 & 24
BOWLING TOWNSHIP SECTION 18 & 19

IMPROVEMENT ENDS STA. 200 + 90.27 R.3W. R.2W. SECTION ENDS STA. 198 + 21.48



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

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

IMPROVEMENT BEGINS STA. 195 + 06.13 SECTION BEGINS STA. 195 + 88.11

SN 081-0137

NET LENGTH OF PROJECT = 233.37 LIN. FT = 0.044 MILES
GROSS LENGTH OF PROJECT = 233.37 LIN. FT = 0.044 MILES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED October 26, 20 05

Sheepy L. Monte
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

December 9, 20 05
Mike Hine
ENGINEER OF DESIGN AND ENVIRONMENT

December 9, 20 05
Eric Harn
DEPUTY DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**

CONTRACT NO. 64B06

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	(19B-1) M	ROCK ISLAND	29	2
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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- 13- SUPERSTRUCTURE
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- 24- 25 TYPICAL PAVEMENT MARKINGS (41.1)
- 26- 29 IL 94 CROSS SECTIONS

STATE STANDARDS

- 001001 Areas of Reinforcement Bars
- 001006 Decimal of an Inch and of a Foot
- 280001- 02 Temporary Erosion Control Systems
- 406201 Mailbox Turnout
- 515001- 02 Name Plate for Bridges
- 630001- 05 Steel Plate Beam Guardrail
- 630301- 03 Shoulder Widening for Type 1 (Spec'd) Guardrail Terminals
- 631011- 02 Traffic Barrier Terminal, Type 2
- 631032- 01 Traffic Barrier Terminal, Type 6A
- 635001 Delineators
- 635006- 02 Reflector and Terminal Marker Placement
- 635011- 01 Reflector Marker and Mounting Details
- 667101 Permanent Survey Markers
- 701006- 02 Typical Application of Traffic Control Standard
- 701201- 02 Typical Application of Traffic Control Standard
- 701301- 02 Typical Application of Traffic Control Standard
- 701311- 02 Typical Application of Traffic Control Standard
- 701321- 08 Typical Application of Traffic Control Standard
- 701326- 02 Typical Application of Traffic Control Standard
- 702001- 05 Traffic Control Devices
- 704001- 02 Temporary Concrete Barrier
- 720011 Metal Post for Signs, Markers and Delineators
- 780001- 01 Typical Pavement Markings
- 886001 Detector Loop Installations
- 886006 Typical Layout for Detection Loops

PLOT DATE = Wed Oct 26 11:55:50 2006
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 USER NAME = mgplj

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

SUMMARY OF QUANTITIES

CONTRACT NO. 64B06

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	(198-1) M	ROCK ISLAND	29	3
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	X080-2A 80% FED/ 20% STATE	SFTY - 3N 80% FED/ 20% STATE
20200100	EARTH EXCAVATION	CU YD	84	84	
20400800	FURNISHED EXCAVATION	CU YD	227	227	
28100807	STONE DUMPED RIPRAP, CLASS A4	TON	63	63	
40600980	BITUMINOUS SURFACE REMOVAL - BUTT JOINT	SQ YD	158	158	
40600990	TEMPORARY RAMP	SQ YD	28	28	
44001205	BITUMINOUS CONCRETE SURFACE REMOVAL COMPLETE	SQ YD	215	215	
48101200	AGGREGATE SHOULDERS, TYPE B	TON	197	197	
50102400	CONCRETE REMOVAL	CU YD	1.3	1.3	
50300225	CONCRETE STRUCTURES	CU YD	1.7	1.7	
50300260	BRIDGE DECK GROOVING	SQ YD	236	236	
50300300	PROTECTIVE COAT	SQ YD	258	258	
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	410	410	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3300	3300	
50901005	STEEL BRIDGE RAIL, TYPE SM	FOOT	137	137	
51500100	NAME PLATES	EACH	1	1	
* 63000000	STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	287.5	287.5	
* 63000130	STEEL PLATE BEAM GUARDRAIL, TYPE A (SPECIAL)	FOOT	25	25	
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	4	
* 63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	570	570	
63500105	DELINEATORS	EACH	4	4	
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	2	2	
67000400	ENGINEERS FIELD OFFICE, TYPE A	CAL MO	4	4	
67100100	MOBILIZATION	L SUM	1	1	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DAY	4	4	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	2892	2892	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	964	964	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	450	450	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	360	360	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2284	2284	
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	16	16	
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	

* SPECIALTY ITEMS

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	X080-2A 80% FED/ 20% STATE	SFTY - 3N 80% FED/ 20% STATE
78300500	PAINT PAVEMENT MARKING REMOVAL	SQ FT	381	381	
X0320047	REMOVAL OF EXISTING PRECAST PRESTRESSED CONCRETE DECK BEAMS	SQ FT	410	410	
X0320887	POLYMER CONCRETE	CU FT	2.4	2.4	
X0322932	SILICONE JOINT SEALER, 1.5"	FOOT	33	33	
X0712400	TEMPORARY PAVEMENT	SQ YD	278	278	
X4066414	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	TON	54	54	
X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	251	251	
Z0002600	BAR SPLICERS	EACH	71	71	
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON - REDIRECTIVE), TEST LEVEL 3	EACH	4		4
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON - REDIRECTIVE), TEST LEVEL 3	EACH	2		2

* SPECIALTY ITEMS

PLOT DATE * Wed Oct 28 11:26:17 2009
 FILE NAME * c:\pwork\proj\64b06\64b06.dgn
 USER NAME * mgplj

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

SUMMARY OF QUANTITIES

GENERAL NOTES

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 221 (IL 94)	(19B-1)M	Rock Island	29	4
FED ROAD DIST. NO.	ILLINOIS	PROJECT		
Contract #64B06				

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 6 (modified) shall be used. Class 6 (modified) shall be used on front slopes and ditch bottoms. This work will be included in the contract unit price per Cubic Meter (Cubic Yard) for EARTH 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 EARTH EXCAVATION.

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

The following Mixture Requirements are applicable for this project:

Mixture Uses(s):	Mainline Surface Course	Top Shoulder	Bottom Shoulder
PG:	PG 64-22	PG 58-22	PG 58-22
RAP%: (Max)	15%	30%	30%
Design Air Voids	4.2% @ N50	3 @ N50	2 @ N50
Mixture Composition (Gradation Mixture)	IL 9.5	IL 9.5 or 12.5	BAM
Friction Aggregate	C	C	N/A
20 Year ESAL	0.6	N/A	N/A

Install a "TO ACTUATE SIGNAL" sign for the traffic signal detector loops. The detail of this sign is included in the plans. This work will be included in the cost of TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

Bituminous and Aggregate prime coat shall be placed in accordance with Section 406 of the Standard Specifications. The cost of the prime coats shall be included in the contract unit price per metric ton (ton) for SURFACE COURSE of the type specified.

This structure will retain the same number SN 081-0137.

The contractor shall submit four copies of the required shop drawings for review and approval to the Bureau of Bridges and Structures, 2300 South Dirksen Parkway, Springfield, IL 62764. After approval of initial submittal, the contractor shall submit one set of shop drawings to Eric Harm, Engineer of Materials, 126 East Ash Street, Springfield, IL 62706, and eight (8) sets of shop drawings to be distributed to:

- District 2 District Engineer (1)
- Fabricator (1)
- Contractor (2)
- Resident Engineer (2)
- District 2 Bureau of Materials (2)

It is anticipated that several mailboxes will require relocation to the approach side of the entrances. When this is done, the contractor shall be required to mount the mailbox on a 100 mm x 100 mm (4" x 4") wood post 1 m (40 inches) above the shoulder surface and extending to a minimum of 0.6 m (24 inches) into the embankment. This work shall be included in the contract unit price for the EARTH EXCAVATION. There are an estimated 2 mailboxes to be relocated.

The excavated materials from earth excavation widening, grading and shaping ditches, and excavating and grading shoulders shall be used to build up the shoulder throughout the job to conform with the typical sections and shoulder widening for terminals as shown on the plans.

A quantity of 227 Cubic Meter (Cubic Yards) of Furnish 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.

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).

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, and at each headwall or end section of AR Culverts. 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. 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 set at intervals of 1.6 Km (1 mile) or as directed by the Engineer. Bridge or culvert projects shall have one survey marker placed near the structure. Estimated: 2 Each.

Permanent Survey Markers, Type II shall be cast-in-place as shown on Highway Standard 667101.

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 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:

SBC/Ameritech Telephone Co.

MidAmerican Energy Co.

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:

Ms. Grace Ochsner
Reynolds Telephone Co.
221 W. Main Street/PO Box 27
Reynolds, IL 61279-0027
Ph. 309/372-4490

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

GENERAL NOTES

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 221 (IL 94)	(19B-1)M	Rock Island	29	5
FED ROAD DIST. NO.	ILLINOIS	PROJECT		

Contract #64B06

The applicable portions of Article 105.07 of the Standard Specification shall apply except for the following: The Contractor shall be responsible to locate the vertical depths of the underground utilities which may interfere with construction operations. This work will not be measured or paid for separately, but shall be considered as included in the unit bid price for the item of construction involved.

Per SB 699 (90 day utility relocation law), a notice will be sent to the utility companies instructing them to have their facilities relocated within 90 days. Estimated date relocation complete = Letting Date + 135 days.

CADD data will be available to Contractors and Consultants working on this project. This information will be provided upon request as MicroStation CADD files and Geopak coordinate geometry files ONLY. If data is required in other formats it will be your responsibility to make these conversions. If any discrepancy or inconsistency arises between the electronic data and the information on the hard copy, the information on the hard copy should be used. Contact the District's Project Engineer to request these files.

COMMITMENTS

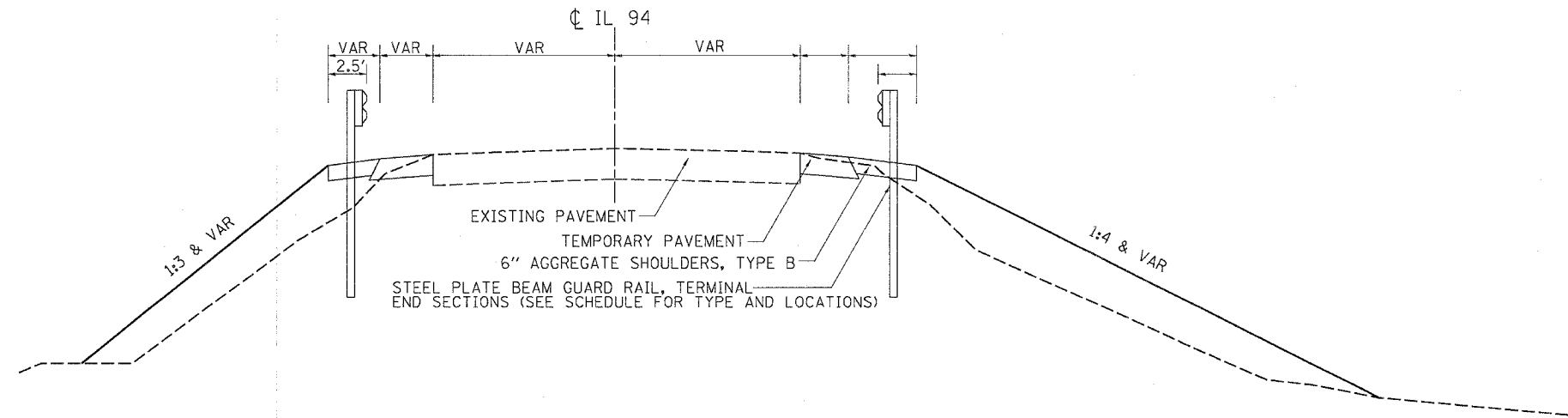
1. All work on this structure over Mill Creek, 1 mile south of IL 192, shall be performed from the existing deck and no work shall take place below the existing structure on the ground.
2. No fill shall be placed in or around Mill Creek.

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

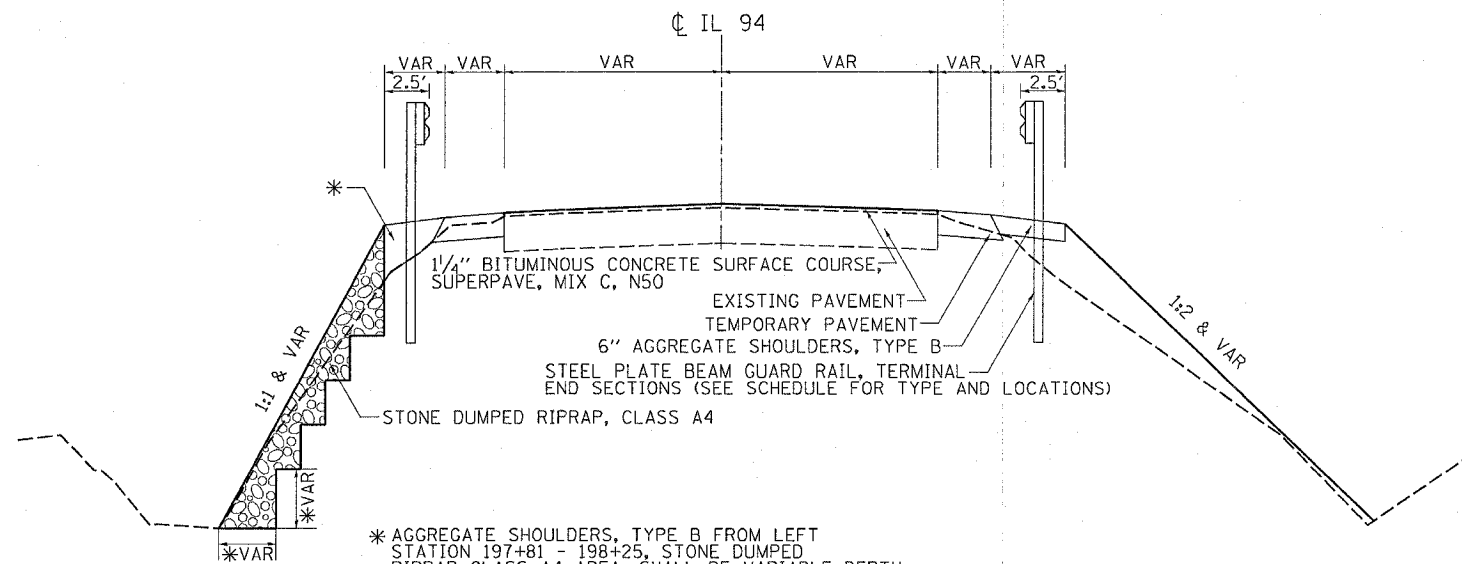
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	(198-1) M	ROCK ISLAND	29	6
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

TYPICAL SECTIONS

STA. 195+06.13 - STA. 195+63.11
 STA. 198+46.48 - STA. 200+90.27



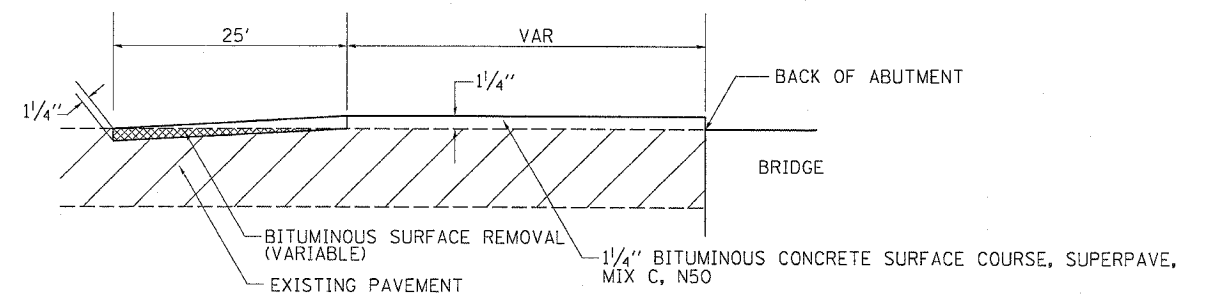
STA. 195+88.11 - STA. 197+13.11
 STA. 197+81.48 - STA. 198+21.48



- * AGGREGATE SHOULDERS, TYPE B FROM LEFT STATION 197+81 - 198+25, STONE DUMPED RIPRAP CLASS A4 AREA, SHALL BE VARIABLE DEPTH.
- * BENCH EXISTING SLOPE PRIOR TO RIPRAP INSTALLATION

BITUMINOUS SURFACE REMOVAL - BUTT JOINT

STA. 195+63.11 - STA. 195+88.11
 STA. 198+21.48 - STA. 198+46.48



*NOTE: SEE PLANS FOR BUTT JOINT LAYOUT

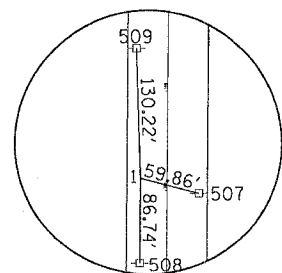
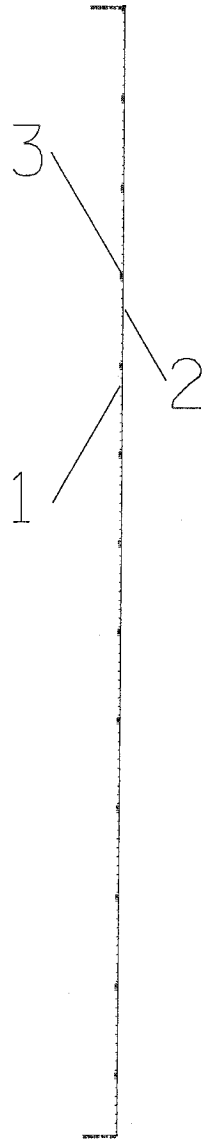
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	19BR-1	ROCK ISLAND	29	7
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

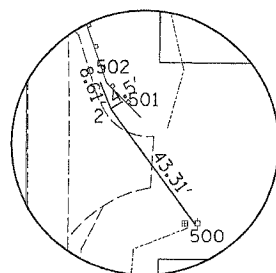
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POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
1	1713370.895	2158961.414	749.52	IL94	84+45.71	26.6056' LT	GPS CONTROL POINT, PIN
2	1714228.185	2159019.56	708.822	IL94	93+03.40	25.3172' RT	GPS CONTROL POINT, PIN
3	1714636.273	2158981.15	706.074	IL94	97+11.20	16.0534' LT	GPS CONTROL POINT, PIN
957175	1698711.819	2158506.5	808.294	IL94	OUT OF CHAIN	-----	DISTRICT NETWORK MONUMENT, PERM. SURVEY MARKER
957275	1698673.547	2156197.98	807.264	IL94	OUT OF CHAIN	-----	DISTRICT NETWORK MONUMENT, PERM. SURVEY MARKER

BENCH MARKS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
402	1714340.406	2159012.698	707.287	IL94	94+15.57	17.641' RT	HEADWALL, PLUG

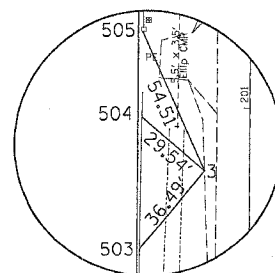
REFERENCE TIES					
POINT	CHAIN	STATION	OFFSET	DESCRIPTION	
500	IL94	92+68.54	51.0239' RT	POWER POLE, SHINER	
501	IL94	93+05.64	28.845' RT	GUARDPOST, SHINER	
502	IL94	93+11.38	22.0952' RT	MAILBOX, POLE	
503	IL94	96+82.73	38.8885' LT	FENCE POST, SHINER	
504	IL94	97+30.36	38.5291' LT	FENCE POST, SHINER	
505	IL94	97+60.86	38.5244' LT	POWER POLE, SHINER	
507	IL94	84+31.07	31.4392' RT	POWER POLE, SHINER	
508	IL94	83+58.97	26.5711' LT	POWER POLE, SHINER	
509	IL94	85+75.83	31.5211' LT	POWER POLE, SHINER	



HORIZONTAL CONTROL POINT No. 1



HORIZONTAL CONTROL POINT No. 2



HORIZONTAL CONTROL POINT No. 3

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

SCHEDULE OF QUANTITIES

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	(19B-1) M	ROCK ISLAND	29	8
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

20200100 EARTH EXCAVATION

CU YD	LOCATION		
18.00	IL 94 LT&RT	195+06	- 197+13
66.00	LT&RT	197+81	- 200+90
84.00	TOTAL		

63000130 STEEL PLATE BEAM GUARDRAIL, TYPE A (SPECIAL)

FOOT	LOCATION		
25	IL 94 RT	196+65	- 196+79
25	TOTAL		

70400100 TEMPORARY CONCRETE BARRIER

FOOT	LOCATION		
90	IL 94 LT	195+22	- 196+12 (STAGE 2)
270	LT	197+02	- 199+72 (STAGE 2)
90	RT	196+12	- 197+02 (STAGE 3)
450	TOTAL		

20400800 FURNISHED EXCAVATION

CU YD	LOCATION		
154.00	IL 94 LT&RT	195+06	- 197+13
73.00	LT&RT	197+81	- 200+90
227.00	TOTAL		

63100087 TRAFFIC BARRIER TERMINAL, TYPE 6A

EACH	LOCATION		
1	IL 94 RT	196+79	- 197+13
1	LT	196+79	- 197+13
1	RT	197+81	- 198+15
1	LT	197+81	- 198+15
4	TOTAL		

70400200 RELOCATE TEMPORARY CONCRETE BARRIER

FOOT	LOCATION		
90	IL 94 RT	195+22	- 196+12 (STAGE 3)
270	RT	197+02	- 199+72 (STAGE 3)
360	TOTAL		

28100807 STONE DUMPED RIPRAP, CLASS A4

TON	LOCATION		
63.00	IL 94 LT	197+81	- 198+25
63.00	TOTAL		

63100167 TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)

EACH	LOCATION		
1	IL 94 LT	195+67	- 196+17
1	RT	196+65	- 196+65 (SIDE ROAD)
1	RT	198+78	- 199+28
1	LT	199+78	- 200+28
4	TOTAL		

78001110 PAINT PAVEMENT MARKING - LINE 4" (TWO COATS)

FOOT	LOCATION		
740	IL 94 LT	195+59	- 199+29 (EDGE LINE)
740	RT	195+59	- 199+29 (EDGE LINE)
624	STA	195+59	- 198+71 (SOLID YELLOW)
180	STA	195+59	- 199+29 (SKIP DASH)
2284	TOTAL		

40600980 BITUMINOUS SURFACE REMOVAL - BUTT JOINT

SQ YD	LOCATION		
73	IL 94 LT&RT	195+63	- 195+88
85	LT&RT	198+22	- 198+47
158	TOTAL		

63200310 GUARDRAIL REMOVAL

FOOT	LOCATION		
51	IL 94 RT	196+67	- 197+13
140	LT	195+74	- 197+13
139	RT	197+82	- 199+21
240	LT	197+82	- 200+21
570	TOTAL		

78200410 GUARDRAIL MARKERS, TYPE A

EACH	LOCATION		
4	IL 94 LT	196+17	- 197+13
4	RT	196+65	- 197+13
4	LT	197+81	- 199+78
4	RT	197+81	- 198+78
16	TOTAL		

40600990 TEMPORARY RAMP

SQ YD	LOCATION		
14	IL 94 LT&RT	197+09	- 197+13
14	LT&RT	197+81	- 197+85
28	TOTAL		

63500105 DELINEATORS

EACH	LOCATION		
1	IL 94 LT	195+67	
1	RT	196+65	(SIDE ROAD)
1	RT	199+28	
1	LT	200+28	
4	TOTAL		

78201000 TERMINAL MARKER - DIRECT APPLIED

EACH	LOCATION		
1	IL 94 LT	195+67	
1	RT	196+65	
1	RT	199+28	
1	LT	200+28	
4	TOTAL		

48101200 AGGREGATE SHOULDERS, TYPE B

TONS	LOCATION		
42	IL 94 LT	195+06	- 197+13
1	RT	195+65	- 195+93
33	RT	196+63	- 197+13
72	LT	197+81	- 200+90
49	RT	197+81	- 199+92
197	TOTAL		

70300220 TEMPORARY PAVEMENT MARKING - LINE 4"

FOOT	LOCATION		
1446	IL 94 LT & RT	194+31	- 200+68 (STAGE 2)
1446	LT & RT	194+31	- 200+68 (STAGE 3)
2892	TOTAL		

78300500 PAINT PAVEMENT MARKING REMOVAL

SQ FT	LOCATION		
123	IL 94 LT	195+59	- 199+29 (EDGE LINE)
123	RT	195+59	- 199+29 (EDGE LINE)
104	STA	195+59	- 198+71 (SOLID YELLOW)
31	STA	195+59	- 199+29 (SKIP DASH)
381	TOTAL		

63000000 STEEL PLATE BEAM GUARDRAIL, TYPE A

FOOT	LOCATION		
62.5	IL 94 LT	196+17	- 196+79
62.5	RT	198+15	- 198+78
162.5	LT	198+15	- 199+78
287.5	TOTAL		

70301000 WORK ZONE PAVEMENT MARKING REMOVAL

SQ FT	LOCATION		
482	IL 94 LT & RT	194+31	- 200+68 (STAGE 2)
482	LT & RT	194+31	- 200+68 (STAGE 3)
964	TOTAL		

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	

SCALE: VERT. DRAWN BY
 HORIZ. CHECKED BY
 DATE

PLOT DATE = Wed Oct 26 11:26:42 2005
 FILE NAME = c:\p\projects\22865896\0865896.dgn
 USER NAME = j...
 USER MAKE = ...

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
19B-1M	*	Rock Island	29	10
F.A.S. NO.	ILLINOIS FED. AID PROJECT			
* Section (19B-1)M			Contract #64B06	

GENERAL NOTES

Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-322 Grade 60.

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 work; however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Existing structure construction plans and subsequent repair plans are available from the IDOT District office by written request. The contractor shall be responsible for obtaining and reviewing the plans prior to construction.

The minimum thickness of the Concrete overlay shall be 5" and varies as required to adjust for the new profile grade and beam camber.

A concrete sealer meeting the requirements of Section 587 of the Standard Specifications shall be applied to the fascia deck beam on the side exposed to view, and the adjacent side underneath for a distance extending 9 in. Cost included with PPC Deck Beams (27").

The cut strands at each beam end shall be given two coats of zinc dust spray or paint meeting the requirements of ASTM A 780. The zinc dust spray or paint shall be applied before corrosion appears and allowed to dry according to the 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 the fascia beams. 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.

No instream work will be allowed on this project.

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 deck beams.

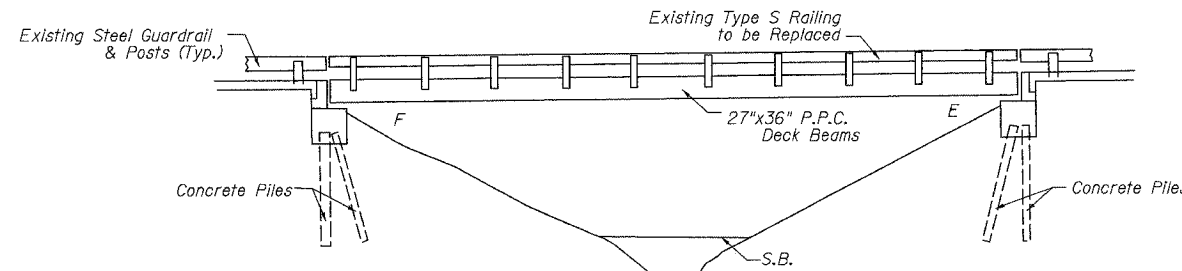
Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Any damage done to the bridge during beam removal and joint reconstruction shall be repaired by the Contractor. Cost to be included in the cost of "Removal of Existing P.P.C. Deck Beams".

Protective Coat quantity is included for the top and side surfaces of the concrete wearing surface.

TOTAL BILL OF MATERIAL

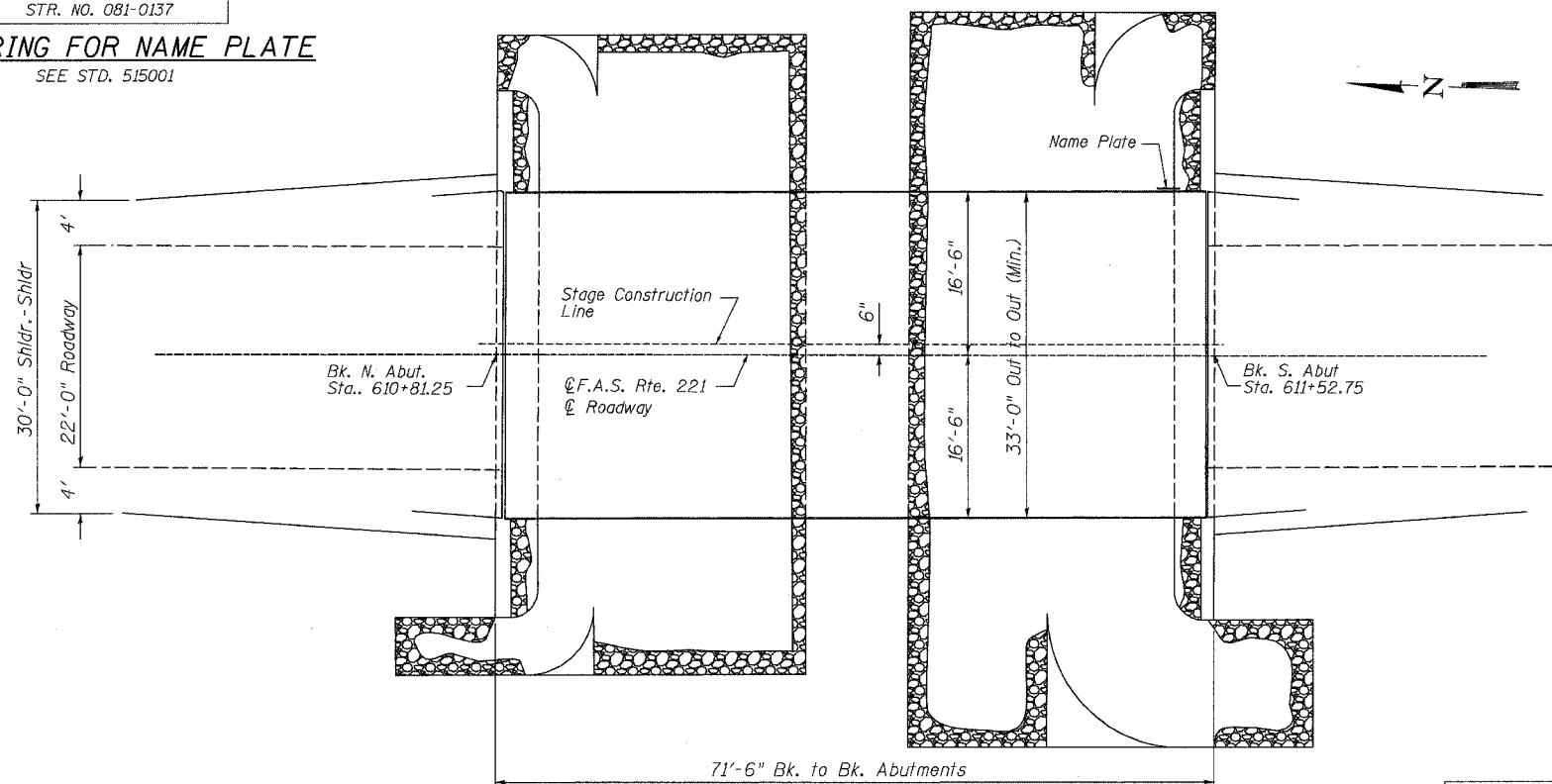
ITEM	UNIT	TOTAL
Removal of Existing Precast Prestressed Concrete Deck Beams	Sq Ft	410
Bridge Deck Grooving	Sq Yd	236
Concrete Wearing Surface, 5"	Sq Yd	251
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq Ft	410
Reinforcement Bars, Epoxy Coated	Pound	3300
Concrete Structures	Cu Yd	1.7
Concrete Removal	Cu Yd	1.3
Bar Splicers	Each	71
Steel Bridge Rail, Type SM	Foot	137
Bituminous Concrete Surface Removal Complete	Sq Yd	215
Protective Coat	Sq Yd	258
Silicone Joint Sealer, 1 1/2"	Foot	33
Polymer Concrete	Cu Ft	2.4
Name Plates	Each	1



ELEVATION

STATION 197+47.30
MILL CREEK
BUILT 1979
RE-BUILT 2006
F.A.S. RT. 221 SEC. (19B-1)M
F.A. PROJ. RS-221(102)
LOADING HS20-44
STR. NO. 081-0137

LETTERING FOR NAME PLATE
SEE STD. 515001



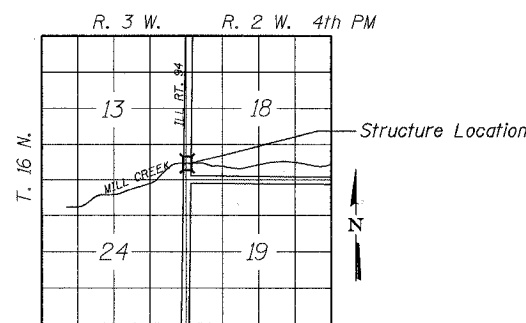
PLAN

LOADING HS20-44 (New Construction)
No Allowance for Future Wearing Surface

DESIGN SPECIFICATIONS (New Construction)
2002 AASHTO

DESIGN STRESSES

FIELD UNITS	PRECAST PRESTRESSED UNITS
$f'_c = 3,500$ p.s.i.	$f'_c = 5,000$ p.s.i.
$f_y = 60,000$ p.s.i. (Reinforcement)	$f'_{ci} = 4,000$ p.s.i.
$f_c = 5,000$ p.s.i. (Concrete Wearing Surface)	$f'_s = 270,000$ p.s.i. (1/2" Low Lax Strands)
	$f'_{si} = 201,960$ p.s.i. (1/2" Low Lax Strands)



LOCATION SKETCH

WENDLER ENGINEERING SERVICES, INC.
Illinois Professional Design
Firm No. 184-000848
Bridge plan sheets
1 thru 8 Only



Scott A. Brown 10/25/05
DATE
SCOTT A. BROWN
DIXON, ILLINOIS
ILLINOIS LICENSED STRUCTURAL
ENGINEER NO. 081-005981
EXPIRES 11-30-2006

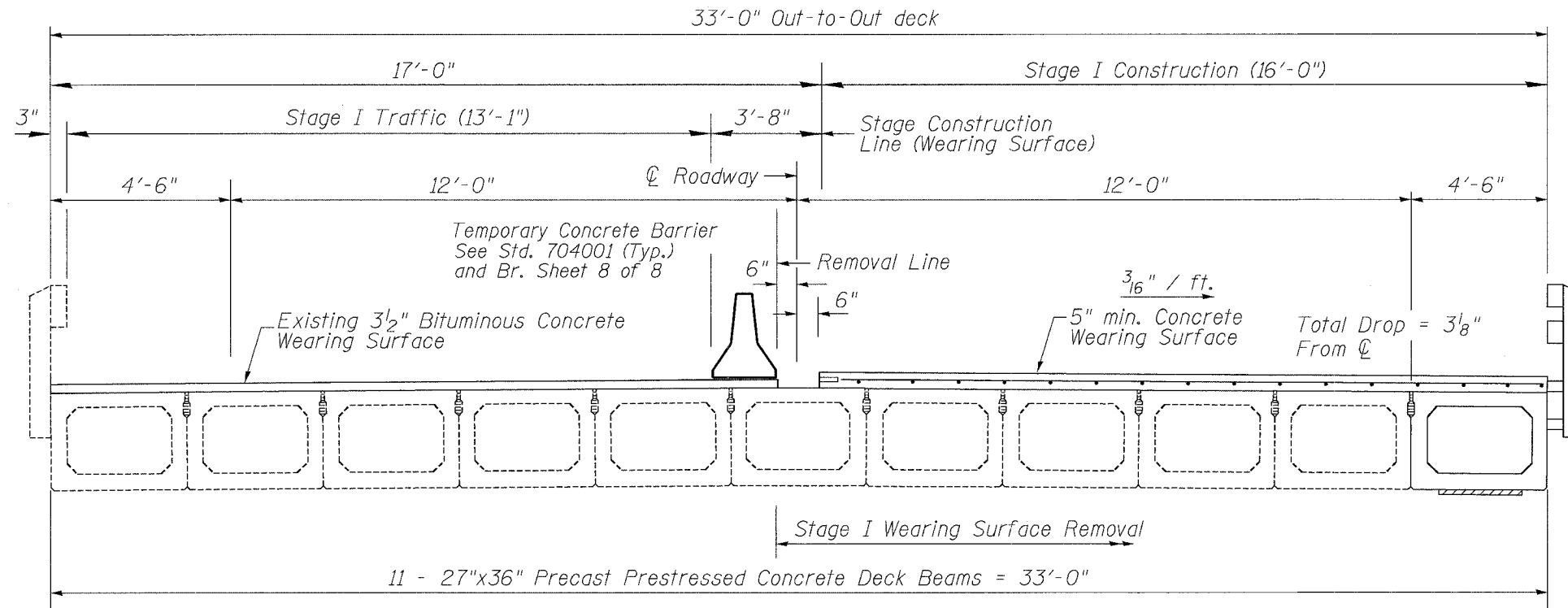
GENERAL PLAN AND ELEVATION
F.A.S. 221 (IL RTE 94)
OVER MILL CREEK
SECTION (19B-1)M
ROCK ISLAND COUNTY
STR. NO. 081-0137

DESIGNED	SB
CHECKED	RB
DRAWN	BH, BS
CHECKED	SB

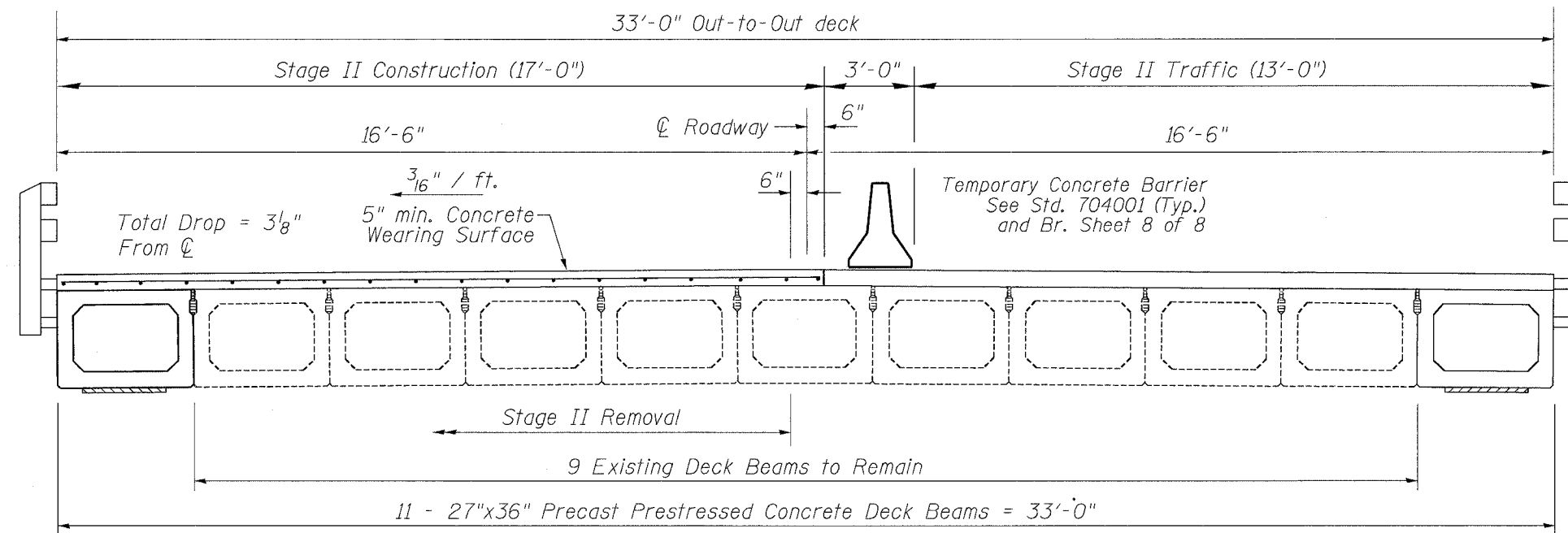
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 2
F.A.S.	*	Rock Island	29	11	8 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

* Section (19BR-1)M Contract #64B06



DECK CROSS SECTION - STAGE I
(Looking North)



DECK CROSS SECTION - STAGE II
(Looking North)

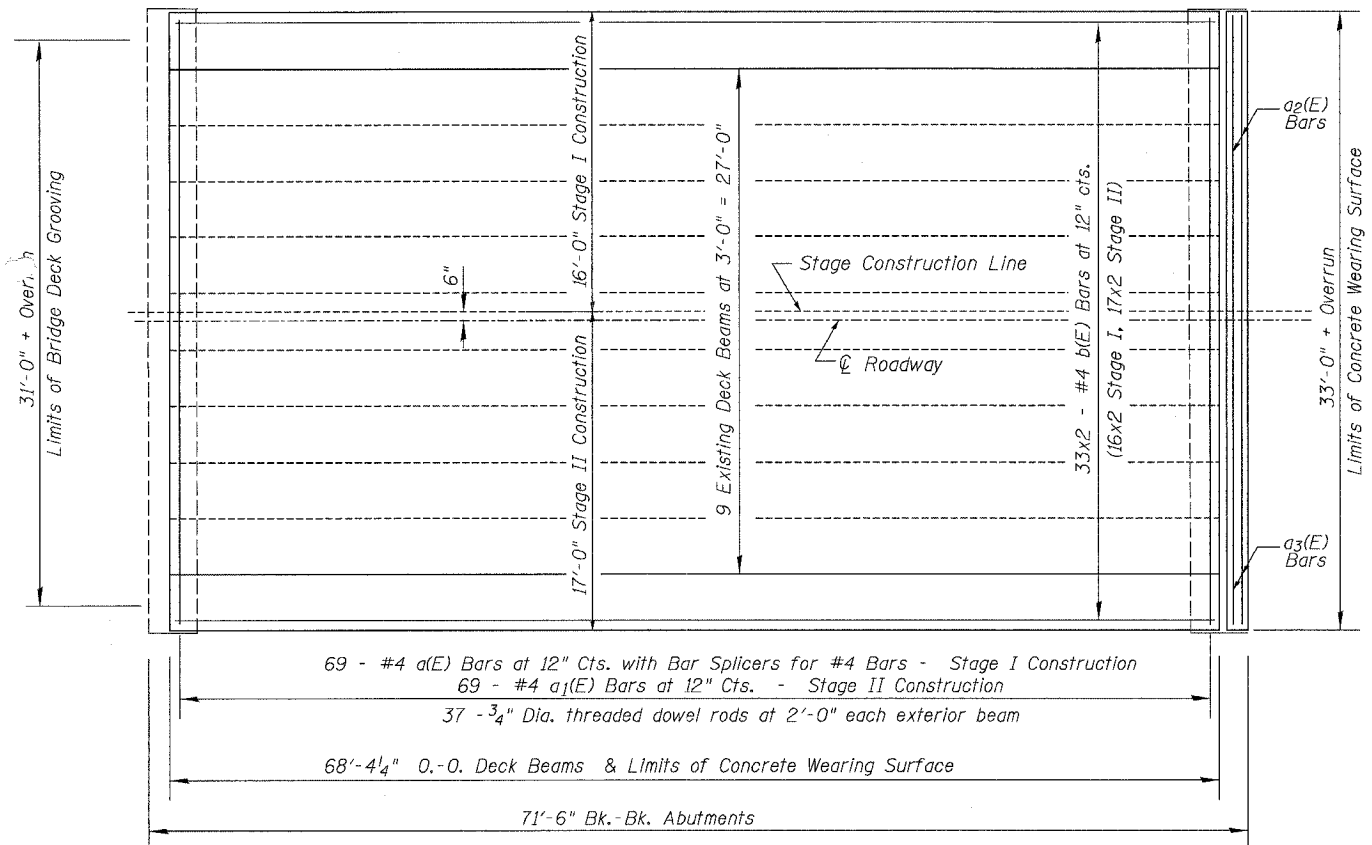
DESIGNED	SB
CHECKED	RB
DRAWN	BH, BS
CHECKED	SB

STAGING PLAN
F.A.S. 221 (IL RTE 94)
OVER MILL CREEK
SECTION (19B-1)M
ROCK ISLAND COUNTY
STR. NO. 081-0137

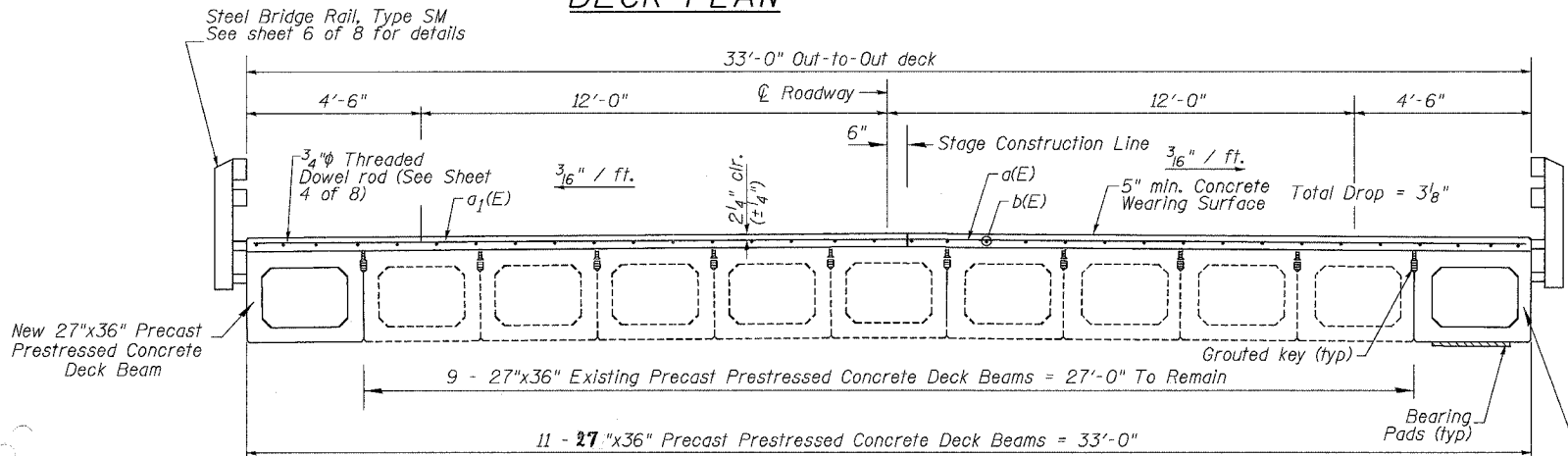
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	DATE	SHEET NO.	SHEET NO. 3
S. B. I.	*	Rock Island	29	12	8 SHEETS
F. A. I.					
FED. ROAD DIST. NO. 7	ILL. NO. 1	FED. AID PROJECT-			

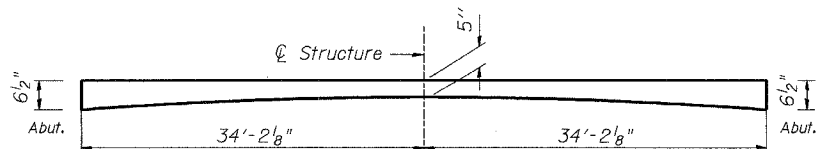
* Section (19B-1)M Contract #64B06



DECK PLAN

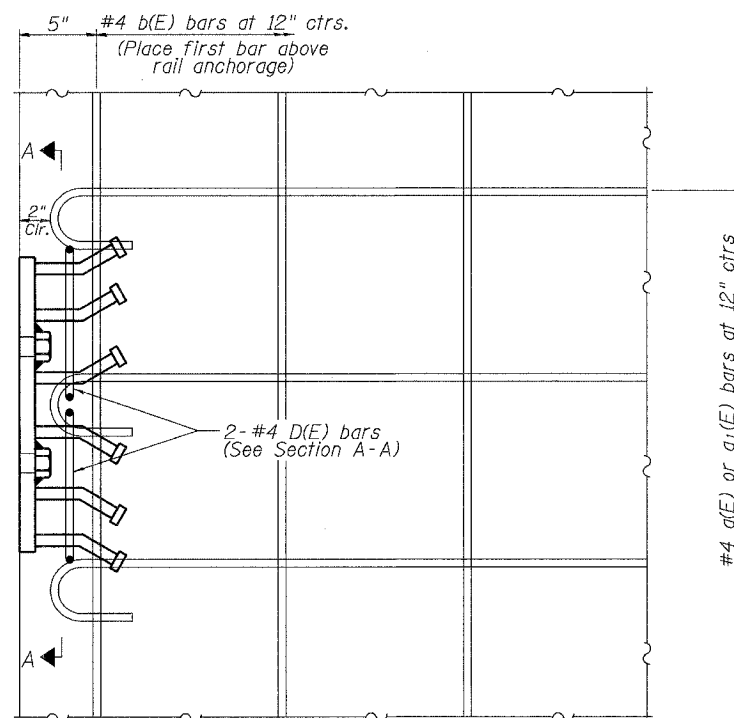


DECK CROSS SECTION
(Looking North)



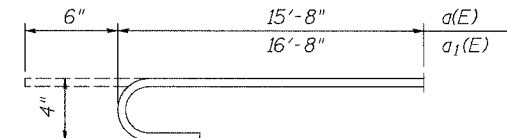
SECTION THRU WEARING SURFACE
(Assumed Camber 1/2")

MIN. BAR LAP
#4 Bar = 1'-8"



RAIL ANCHOR
PLAN VIEW

The rail anchorage shall be cast with the beam and the wearing surface shall be cast in the field. Formwork necessary for the wearing surface may be secured utilizing the bottom rail anchorage inserts and/or additional inserts cast into beam. Drilling into the beam will not be permitted.

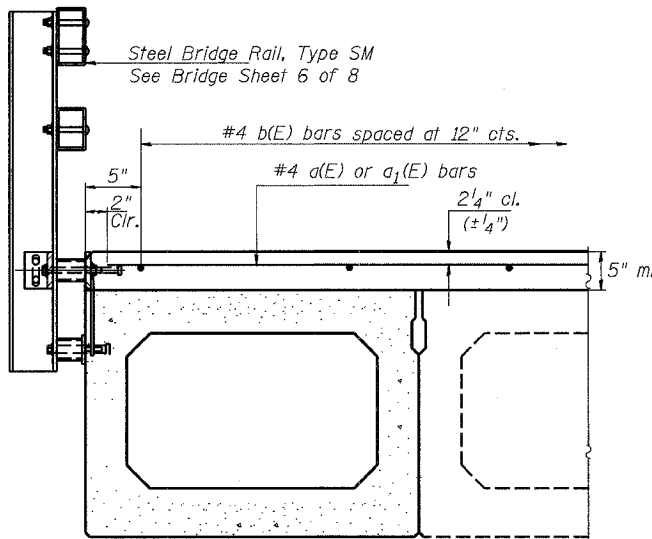


#4 a(E) & a₁(E) BAR

BILL OF MATERIAL - SUPERSTRUCTURE

Bar	No.	Size	Length	Shape
a(E)	69	#4	16'-2"	⊏
a ₁ (E)	69	#4	17'-4"	⊏
b(E)	66	#4	35'-6"	—
ITEM		UNIT	TOTAL	
Concrete Wearing Surface		Sq Yd	251	
Reinforcement Bars, Epoxy Coated		Pound	3110	

Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 33x2 - #4, etc. indicates 33 lines of bars with 2 lengths per line.



SECTION THRU DECK EDGE - MAIN SPAN

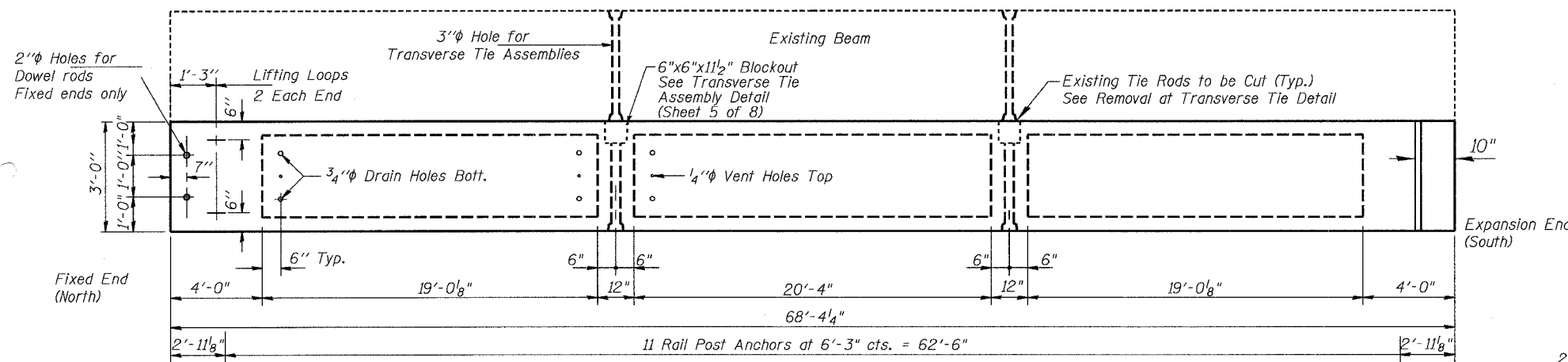
DECK PLAN
F.A.S. 221 (IL RTE 94)
OVER MILL CREEK
SECTION (19B-1)M
ROCK ISLAND COUNTY
STR. NO. 081-0137

DESIGNED	SB
CHECKED	RB
DRAWN	DB, BS
CHECKED	SB

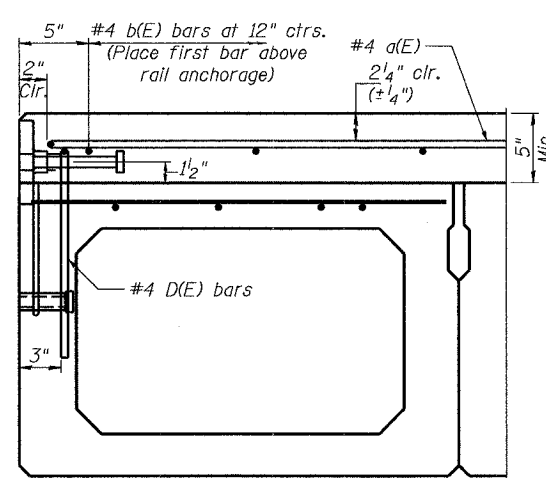
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET NO.
	*	Rock Island	29	13
8 SHEETS				

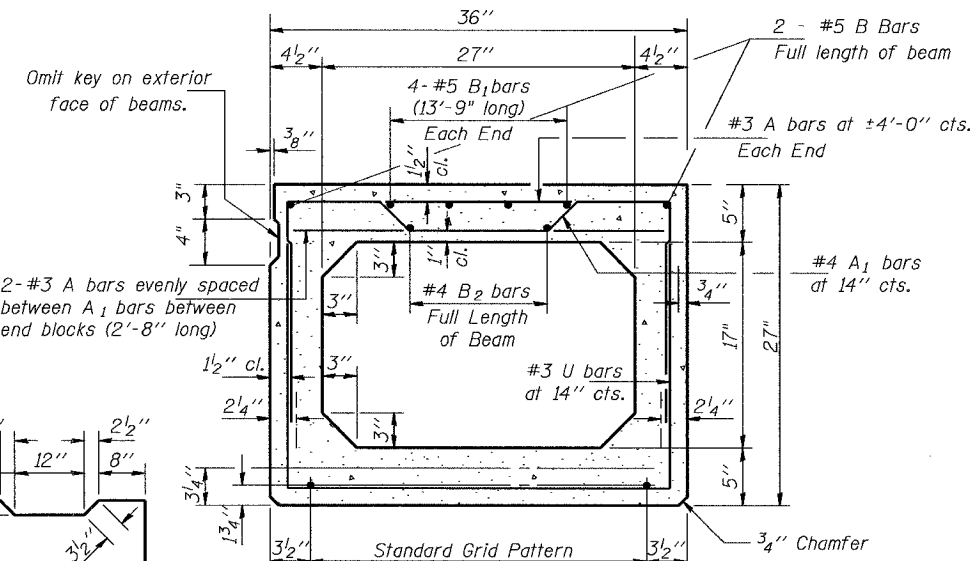
* Section (19BR-1)M Contract #64B06



PLAN

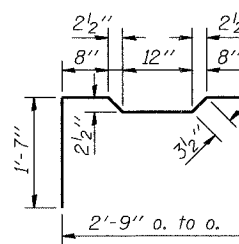


SECTION THRU EXTERIOR BEAMS

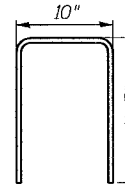


TYPICAL SECTION

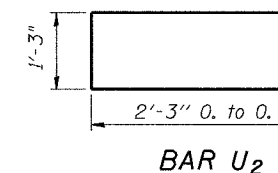
Note: Place strands symmetrically about center of beam.
17-1/2 # Strands Each Strand Stressed to 30,900 Lbs.
9-Strands 1 3/4" up, 4-Strands 3/4" up
2 - Strands 7/2" up
2 - Strands 10 1/2" up



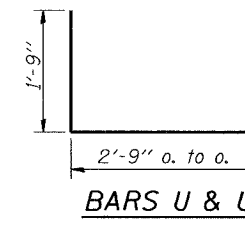
BAR A1



#4 D(E) BAR



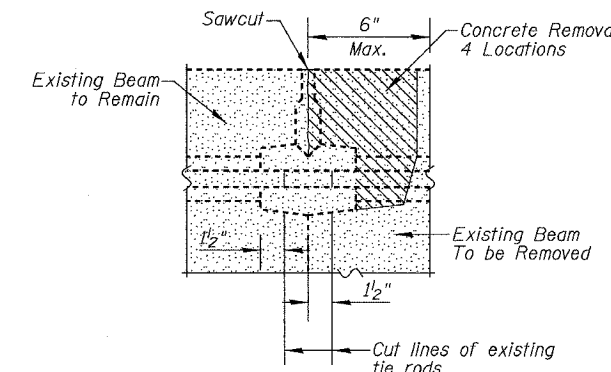
BAR U2



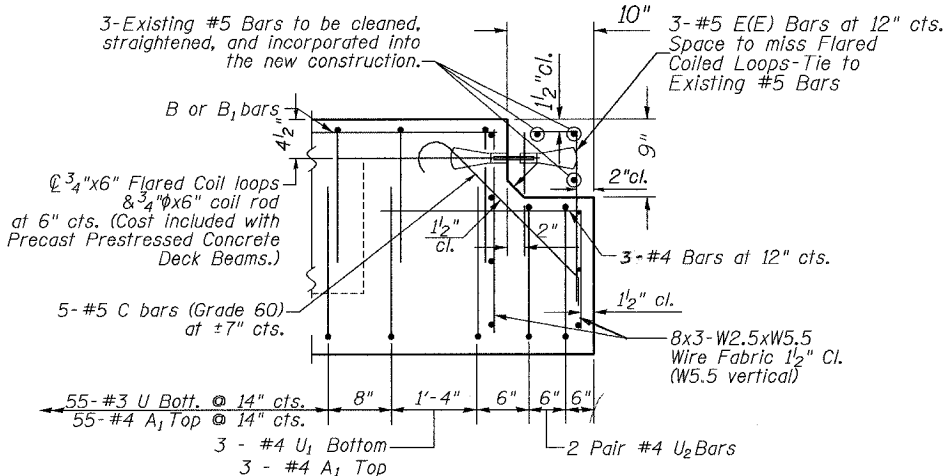
BARS U & U1

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. Lifting loops shall be 3-1/2" Dia.-270 ksi strands, as shown. The 1" Dia. rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place. Non prestressing steel shall conform to AASHTO M-31 or M-322 Grade 60. The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/8" fabric adjusting shims of the dimensions shown on sheet 5 of 8 shall be provided for each bearing. Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key. Corrosion Inhibitor, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams. Required Release Strength, f'ci, shall be 4000 p.s.i. The #4 D(E) & #5 E(E) bars shall be epoxy coated and the cost shall be considered included with Precast Prestressed Concrete Deck Beams. The cut strands at each beam end shall be given two coats of zinc dust spray or paint meeting the requirements of ASTM A 780. The zinc dust spray or paint shall be applied before corrosion appears and allowed to dry according to the 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 the fascia beams. 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.

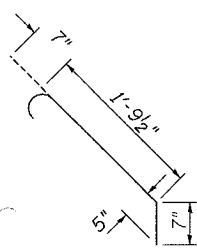


BEAM REMOVAL DETAIL AT TRANSVERSE TIES

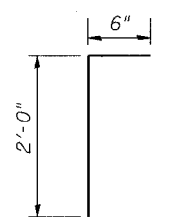


END OF BEAM (EXP. END)

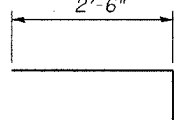
Dimensions are at rt. L's.



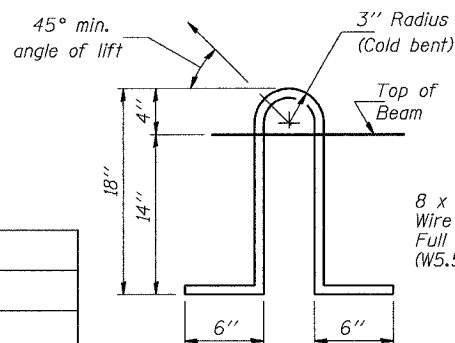
BAR C



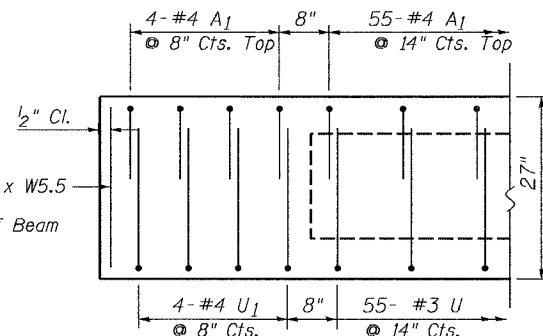
#5 E(E) BAR



#5 E1 BAR



LIFTING LOOP DETAIL



FIXED END ELEVATION

DESIGNED	SB
CHECKED	RB
DRAWN	DB, BS
CHECKED	SB

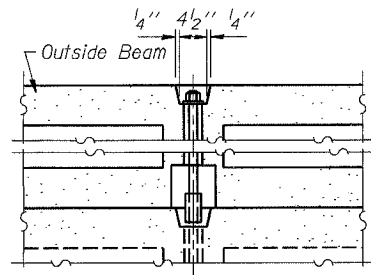
PD-5-S 3-1-94

SUPERSTRUCTURE
F.A.S. 221 (IL RTE 94)
OVER MILL CREEK
SECTION (19B-1)M
ROCK ISLAND COUNTY
STR. NO. 081-0137

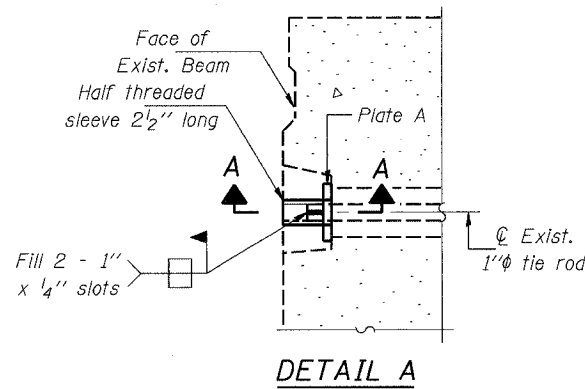
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 5
S.B.L.	*	Rock Island	29	14	B SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

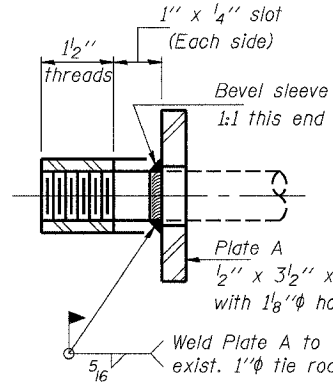
* Section (19BR-1)M Contract #64B06



TYPICAL TRANSVERSE
TIE ASSEMBLY



DETAIL A



SECTION A-A

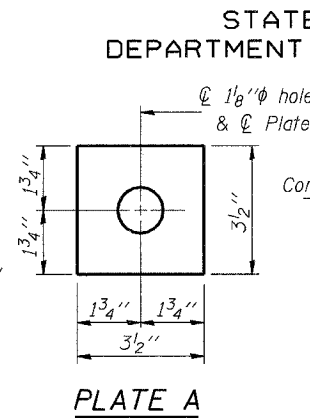
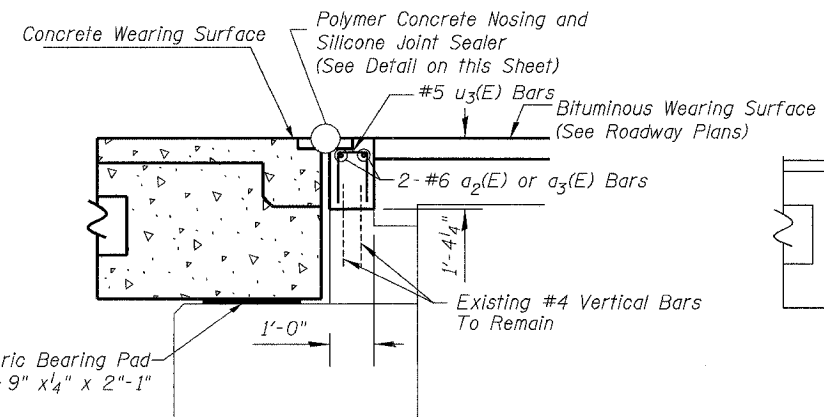
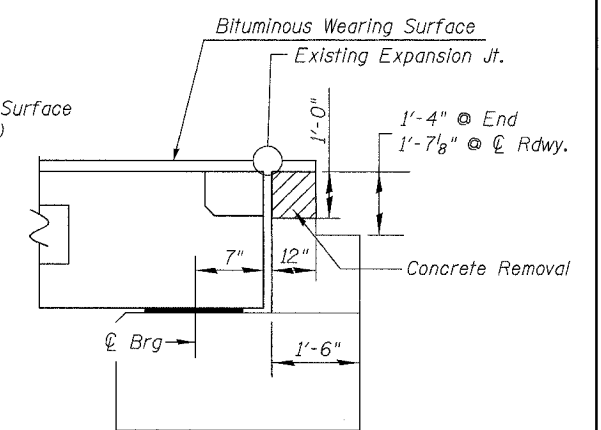


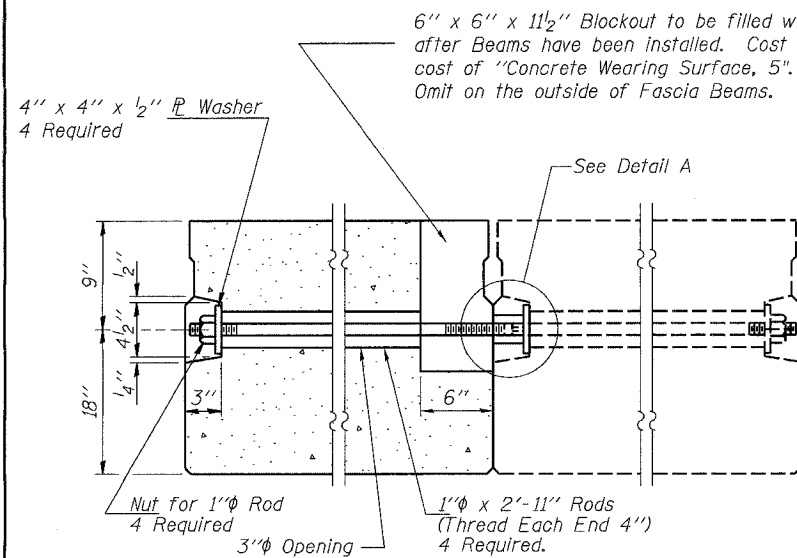
PLATE A



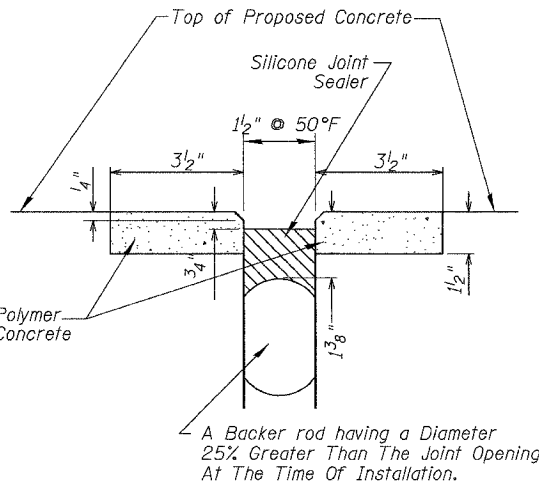
PROPOSED
SECTION THRU SOUTH ABUTMENT



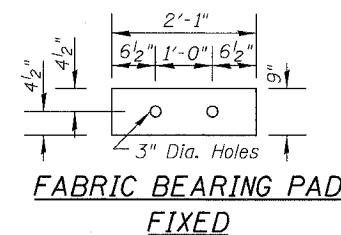
EXISTING
SECTION THRU SOUTH ABUTMENT



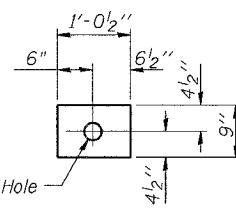
TYPICAL TRANSVERSE TIE ASSEMBLY



SILICONE JOINT SEALER DETAIL

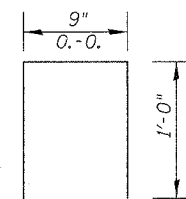


FABRIC BEARING PAD
FIXED

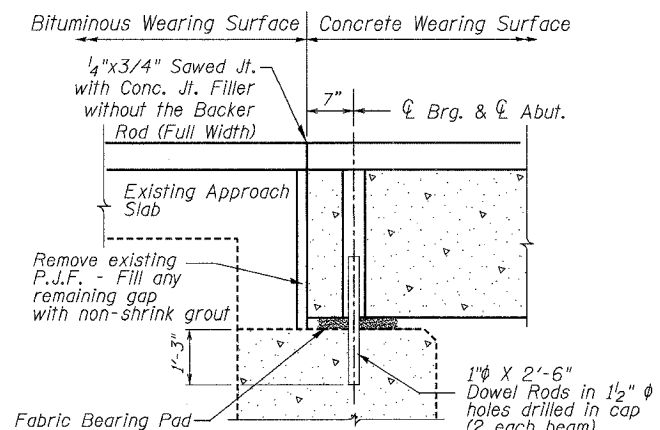


FIXED ADJUSTING SHIM

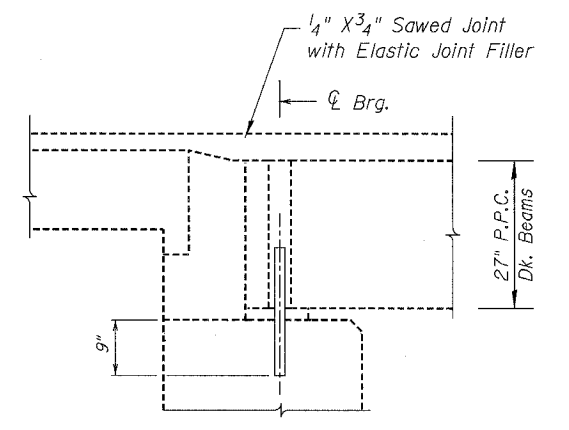
(Expansion adjusting shim similar, omit hole)



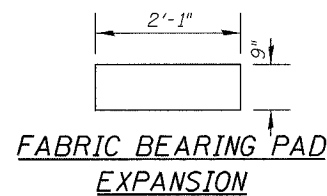
BAR u3(E)



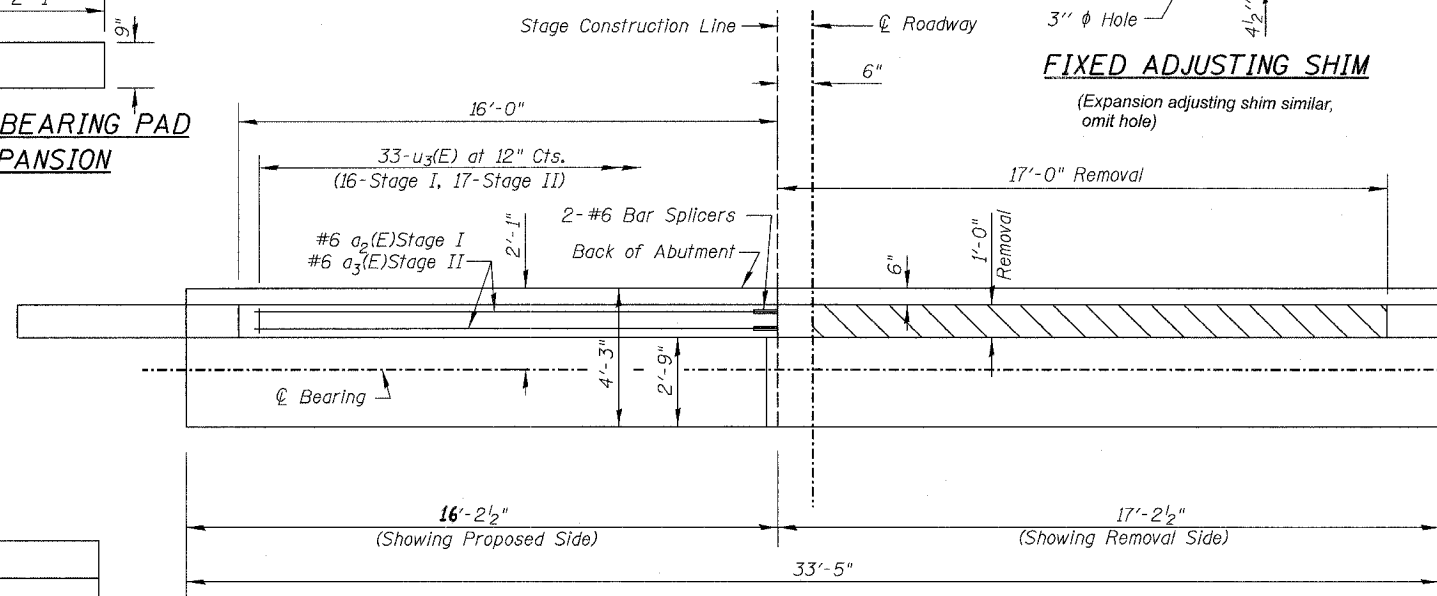
PROPOSED
SECTION THRU NORTH ABUTMENT



EXISTING
SECTION THRU NORTH ABUTMENT



FABRIC BEARING PAD
EXPANSION

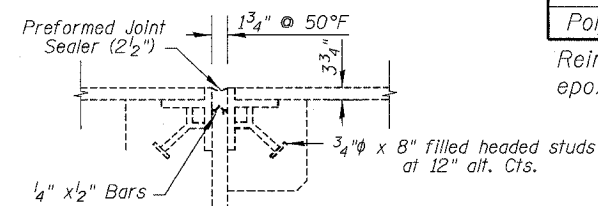


SOUTH ABUTMENT PLAN VIEW

BILL OF MATERIAL - JOINT REPLACEMENT

Bar	No.	Size	Length	Shape
a2(E)	2	#6	15'-9"	—
a3(E)	2	#6	16'-3"	—
u(E)	33	#5	2'-9"	□
ITEM		UNIT	TOTAL	
Reinforcement Bars, Epoxy Coated		Pound	190	
Concrete Structures		Cu Yd	1.7	
Concrete Removal		Cu Yd	1.3	
Silicone Joint Sealer, 1/2"		Foot	33	
Polymer Concrete		Cu Ft	2.4	

Reinforcement bars designated (E) shall be epoxy coated.



EXISTING
SECTION THRU
EXPANSION JT.

Note: Existing P.J.F. to be removed full width. Existing steel plates and square bars to be removed on the outside 3' of each side of the deck. Cost included with "Removal of Existing Precast Prestressed Deck Beams".

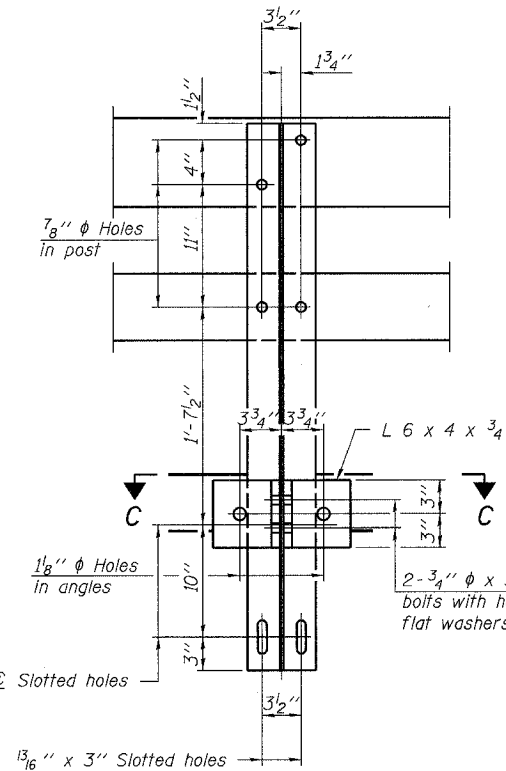
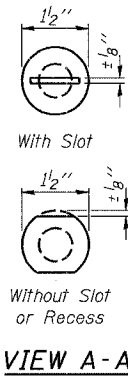
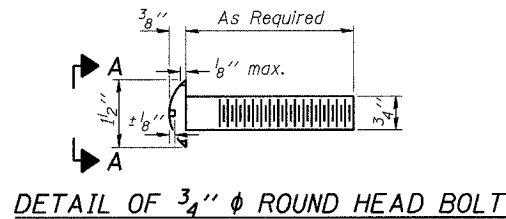
SUPERSTRUCTURE DETAILS
F.A.S. 221 (IL RTE 94)
OVER MILL CREEK
SECTION (19B-1)M
ROCK ISLAND COUNTY
STR. NO. 081-0137

DESIGNED	SB
CHECKED	RB
DRAWN	DB, BS
CHECKED	SB

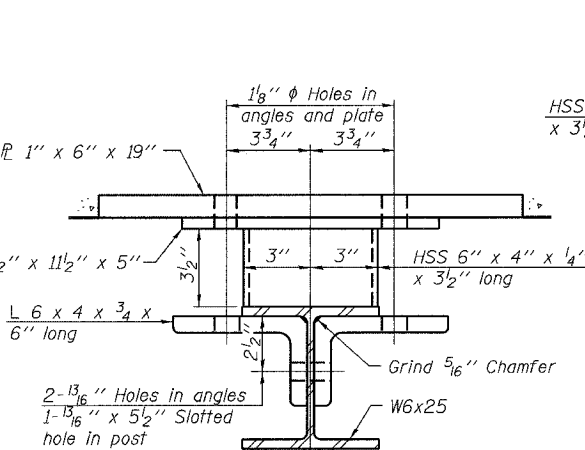
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	DATE	SHEET	SHEET NO. 6
F.A.S.	*	Rock Island	29	15	8 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

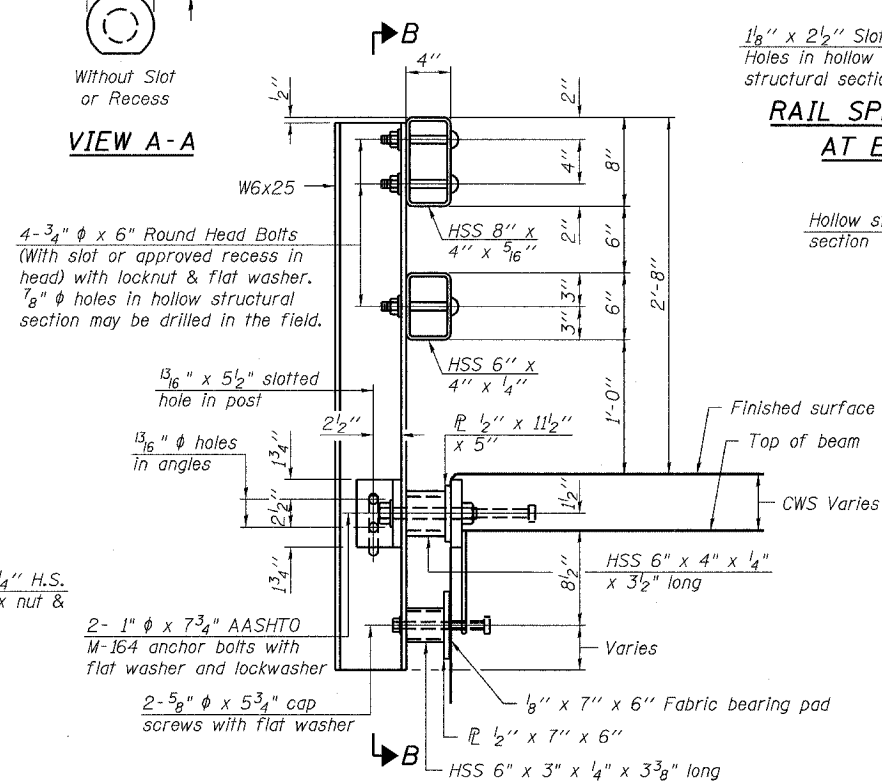
* Section (19BR-1)M Contract #64B06



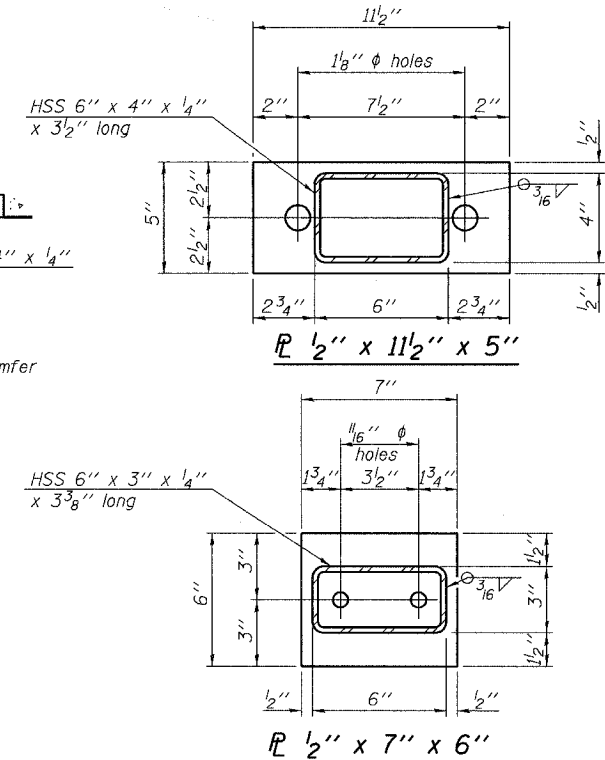
SECTION B-B



SECTION C-C

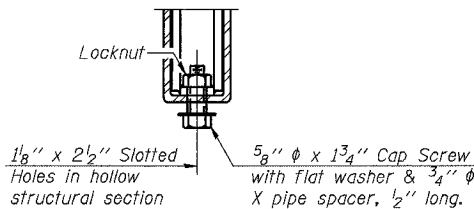


SECTION AT RAIL POST

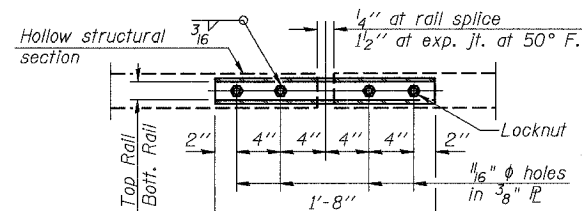


ANCHOR DEVICE

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

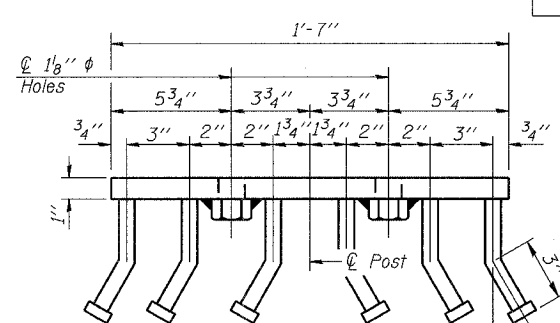


RAIL SPLICE CONNECTION
AT EXPANSION JT.

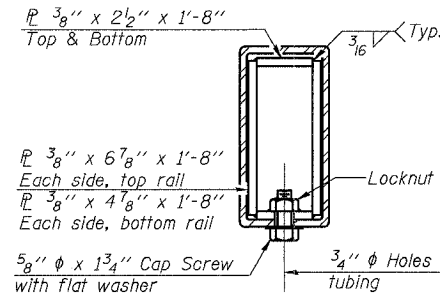


PLAN-BOTT. SPLICE P
TYPICAL

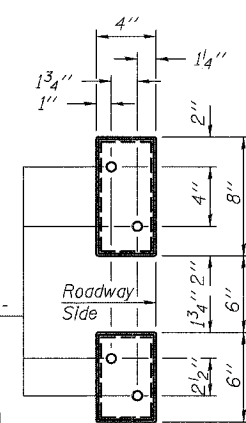
4 - 5/8" reduced base welded studs. Provide 4 - 5/8" washers and self-locking nuts or nuts and jam nuts for guardrail connection shown on Std. 631032



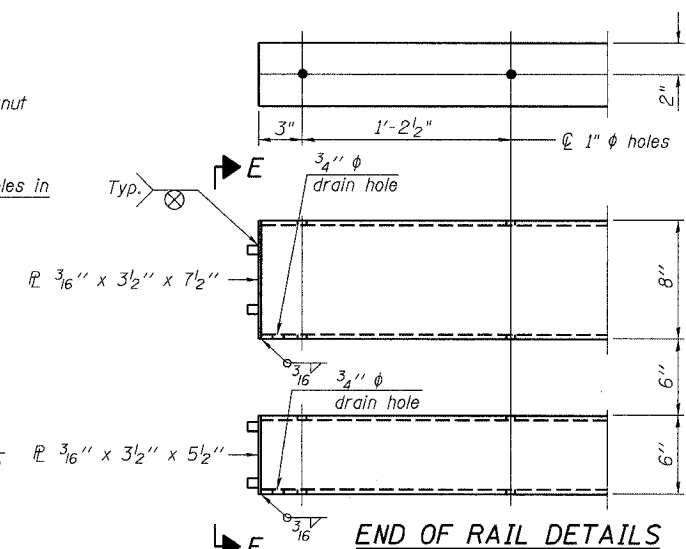
VIEW D-D



SECTION AT
RAIL SPLICE



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" 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" 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" cap screws in bottom of posts shall be tightened to a snug fit only.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Bridge Rail, Type SM	Foot	137

TYPE SM
STEEL BRIDGE RAIL SIDE MOUNTED
F.A.S. 221 (IL RTE 94)
OVER MILL CREEK
SECTION (19B-1)M
ROCK ISLAND COUNTY
STR. NO. 081-0137

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 7
S. B. I.	*	Rock Island	29	16	8 SHEETS
F. A. I.					
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

* Section (19BR-1)M Contract #64B06

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 60 ksi 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:

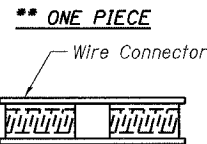
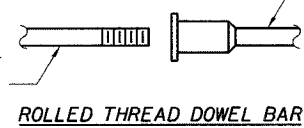
- ① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_t$
- ② Minimum *Pull-out Strength (Tension in kips) = $1.25 \times f_{s_{allow}} \times A_t$

Where f_y = Yield strength of lapped reinforcement bars in ksi.
 $f_{s_{allow}}$ = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)
 A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	5.9
#5	2'-0"	23.0	9.2
#6	2'-7"	33.1	13.3
#7	3'-5"	45.1	18.0
#8	4'-6"	58.9	23.6
#9	5'-9"	75.0	30.0
#10	7'-3"	95.0	38.0
#11	9'-0"	117.4	46.8

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."

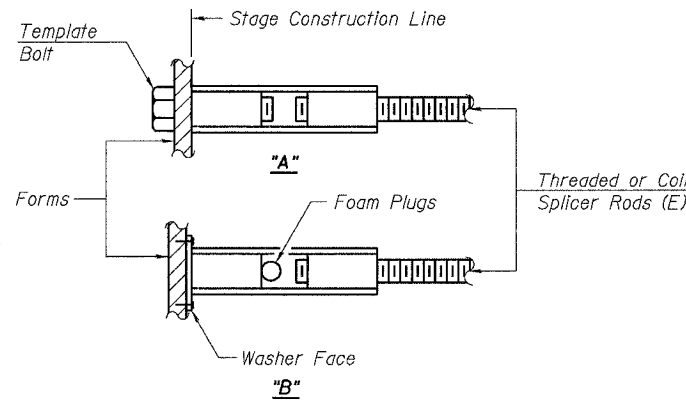
The diameter of this part is the same as the diameter of the bar spliced.



WELDED SECTIONS

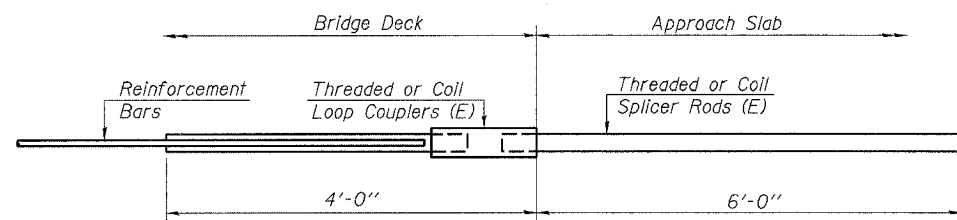
BAR SPLICER ASSEMBLY ALTERNATIVES

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



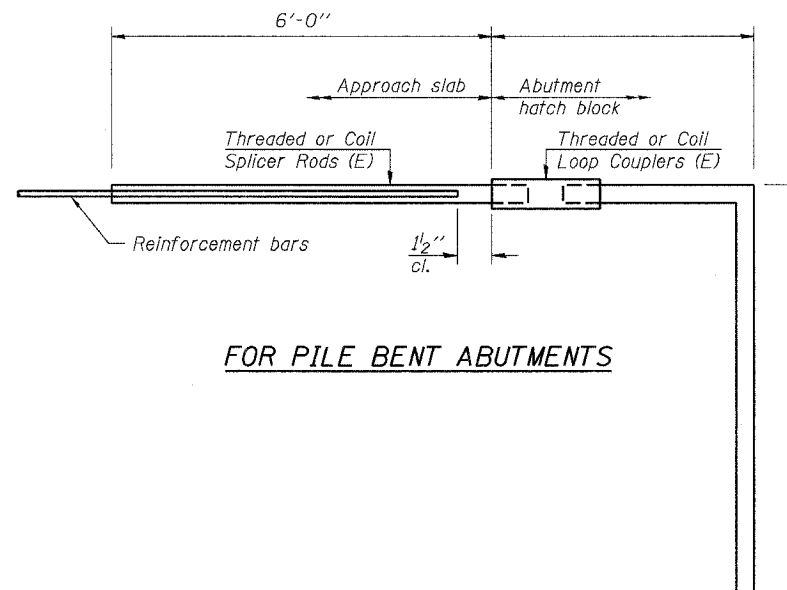
INSTALLATION AND SETTING METHODS

"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.



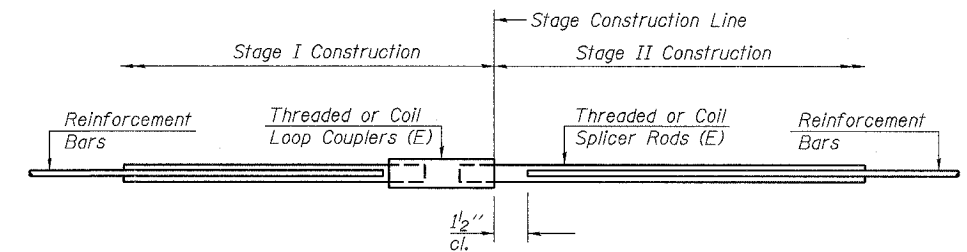
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar	
Min. Capacity =	23.0 kips - tension
Min. Pull-out Strength =	9.2 kips - tension
No. Required =	



FOR PILE BENT ABUTMENTS

Bar Splicer for #5 bar	
Min. Capacity =	23.0 kips - tension
Min. Pull-out Strength =	9.2 kips - tension
No. Required =	



STANDARD

Bar Size	No. Assemblies Required	Location
#4	69	Deck
#6	2	S. Abut. Backwall

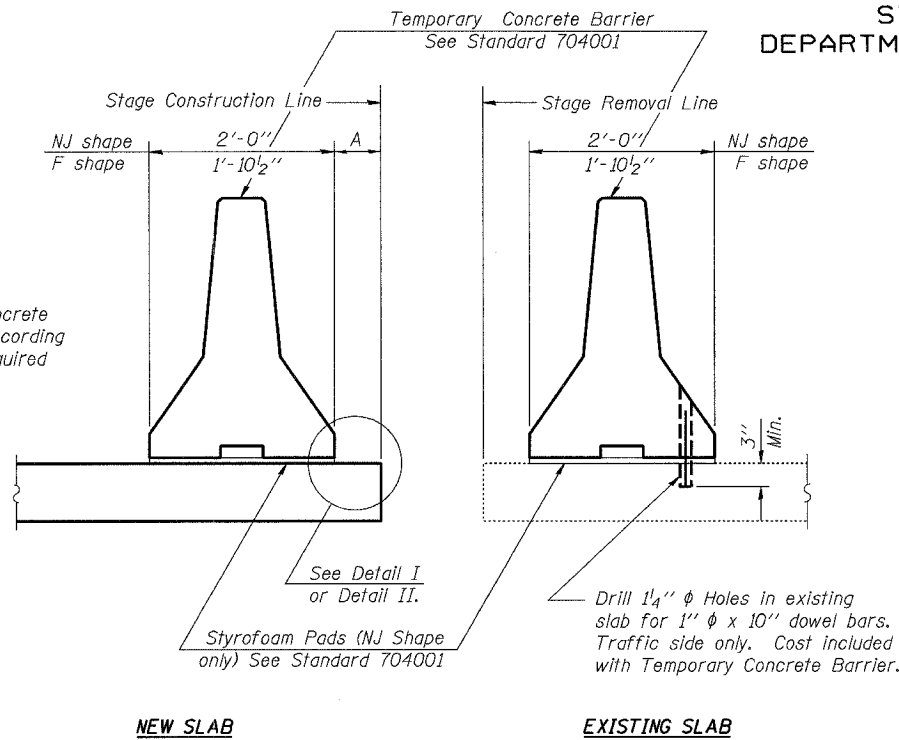
BAR SPLICER ASSEMBLY DETAILS
F.A.S. 221 (IL RTE 94)
OVER MILL CREEK
SECTION (19B-1)M
ROCK ISLAND COUNTY
STR. NO. 081-0137

DESIGNED	SB
CHECKED	RB
DRAWN	BH, BS
CHECKED	SB

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

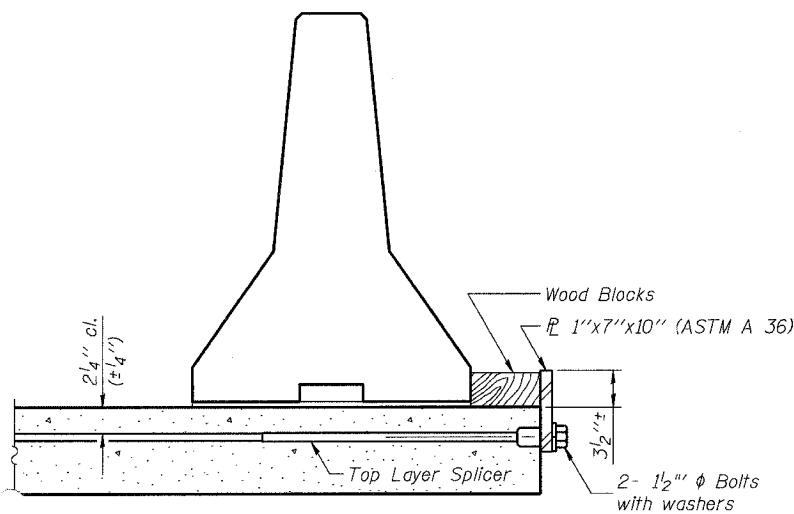
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. <u>8</u>
	*	Rock Island	29	17	<u>8</u> SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

* Section (19B-1)M Contract #64B06



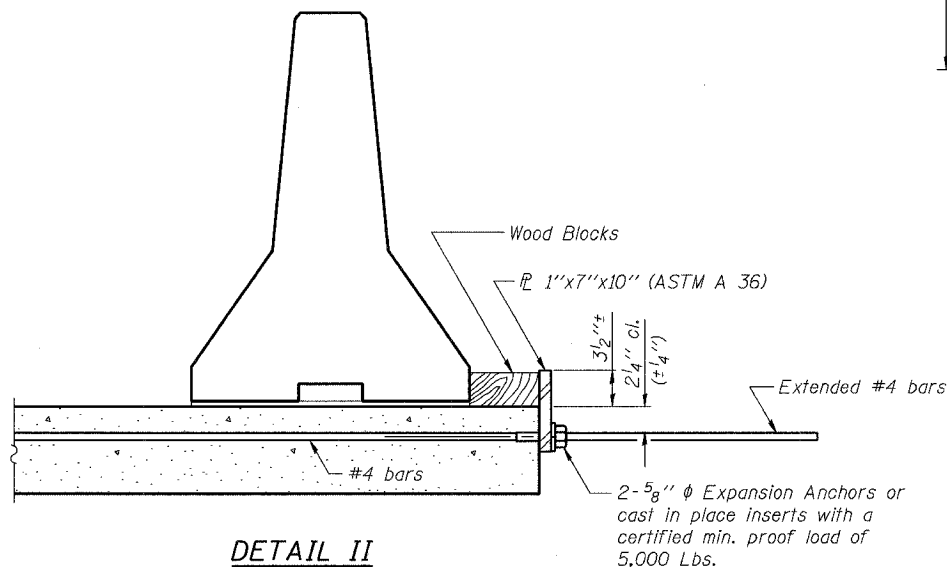
When "A" is 3'-6" or less, the temporary concrete barrier shall be Anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".

SECTIONS THRU SLAB



DETAIL I

The 1"x7"x10" Plate shall not be removed until Stage II Construction forms and reinforcement bars are in place.

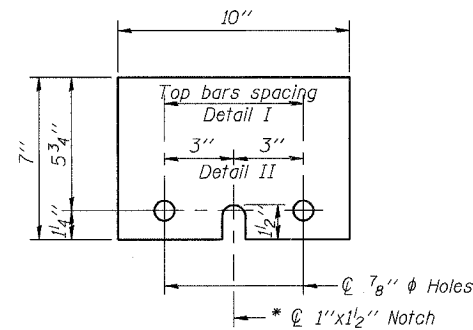


DETAIL II

The 1"x7"x10" 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.

NOTES

- Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x10" steel \bar{L} to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.
 - Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x10" steel \bar{L} to the concrete slab with 2-5/8" 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.



\bar{L} 1"x7"x10"

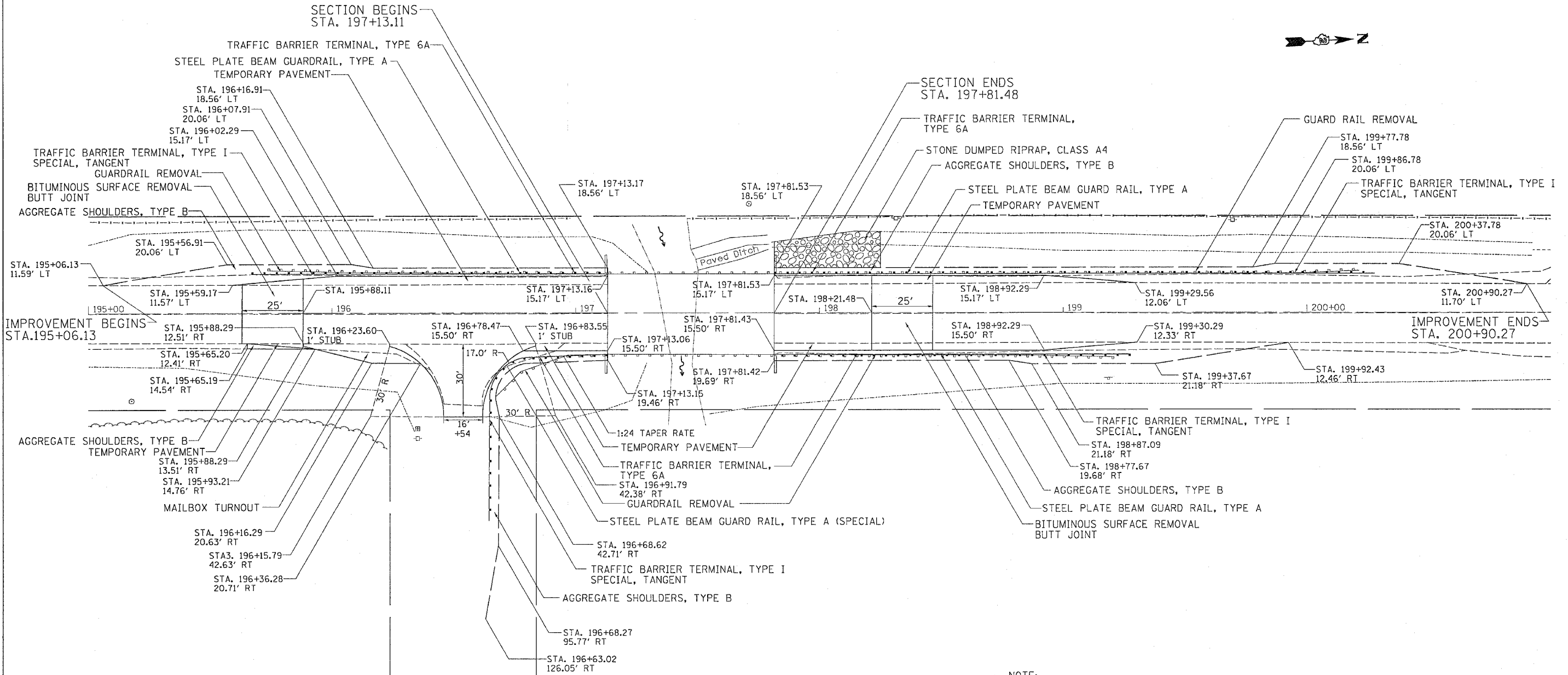
* Required only with Detail II

DESIGNED
CHECKED
DRAWN
CHECKED

TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION
F.A.S. 221 (IL RTE 94)
OVER MILL CREEK
SECTION (19B-1)M
ROCK ISLAND COUNTY
STR. NO. 081-0137

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	(19B-1) M	ROCK ISLAND	29	18
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

PLAN SHEETS







NOTE:
 MAILBOX TURNOUT AND SIDEROAD RETURN SHALL BE CONSTRUCTED THE SAME AS TEMPORARY PAVEMENT. THIS WORK SHALL BE PAID FOR PER SQ YD FOR TEMPORARY PAVEMENT.

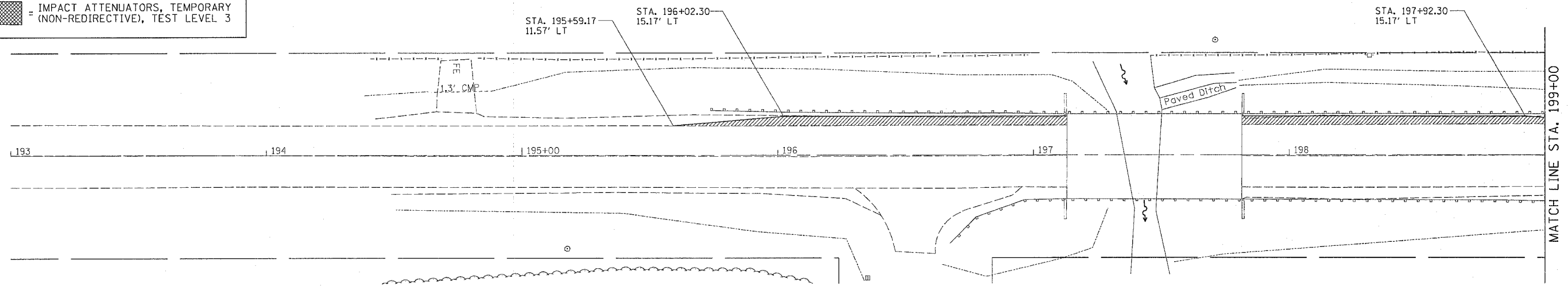
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 PLOT SCALE = 20.0000 / IN.
 USER NAME = meglj

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	(19B-1) M	ROCK ISLAND	29	19
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STAGING SHEETS

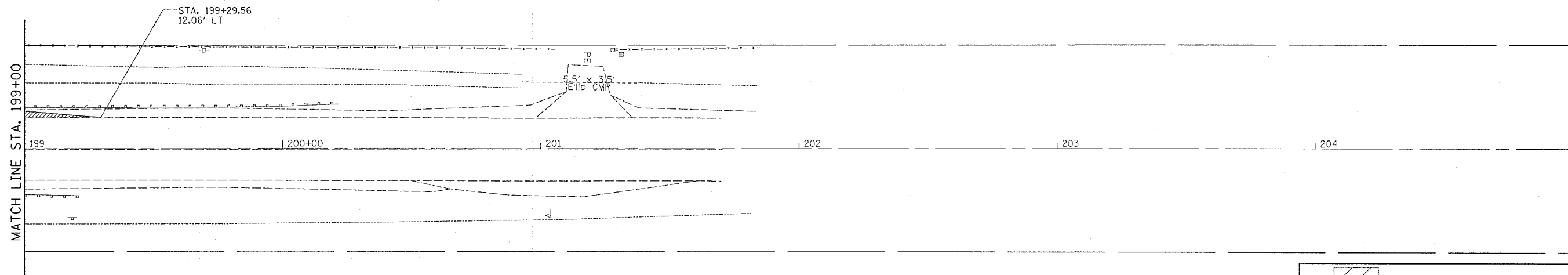


 = WORK ZONE
 = TRAFFIC SIGNAL
 = INDUCTION LOOP DETECTOR
 = IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3







NOTE:

THIS TRAFFIC CONTROL AND PROTECTION SHALL BE SET UP AND PAID FOR ACCORDING TO STANDARD 701326



NOTE:

THIS TRAFFIC CONTROL AND PROTECTION SHALL BE SET UP AND PAID FOR ACCORDING TO STANDARD 701326





 = WORK ZONE
 = TRAFFIC SIGNAL
 = INDUCTION LOOP DETECTOR
 = IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

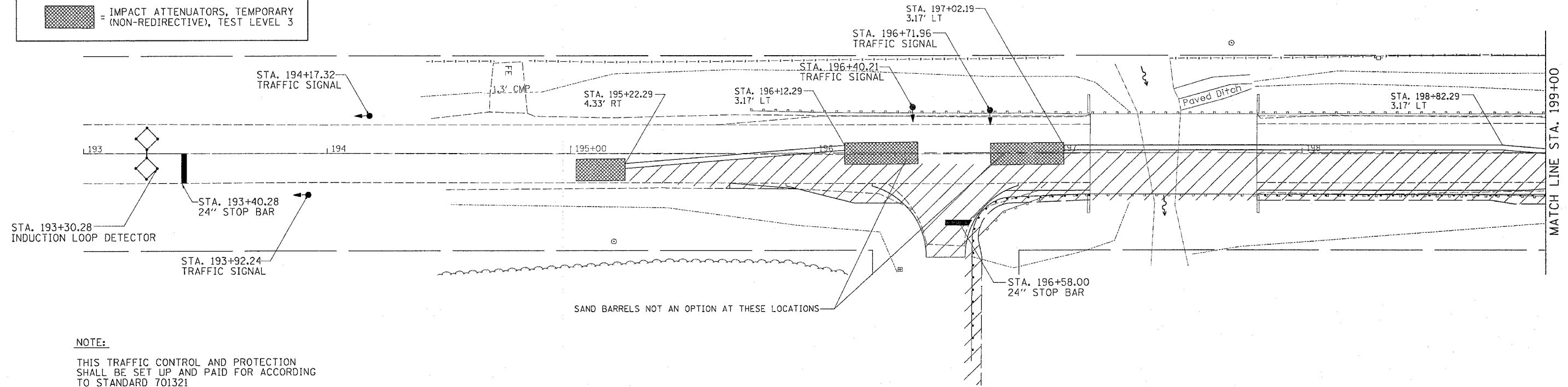
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 PLOT SCALE = 28.0000' / IN.
 USER NAME = meg111

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	(19B-1) M	ROCK ISLAND	29	20
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

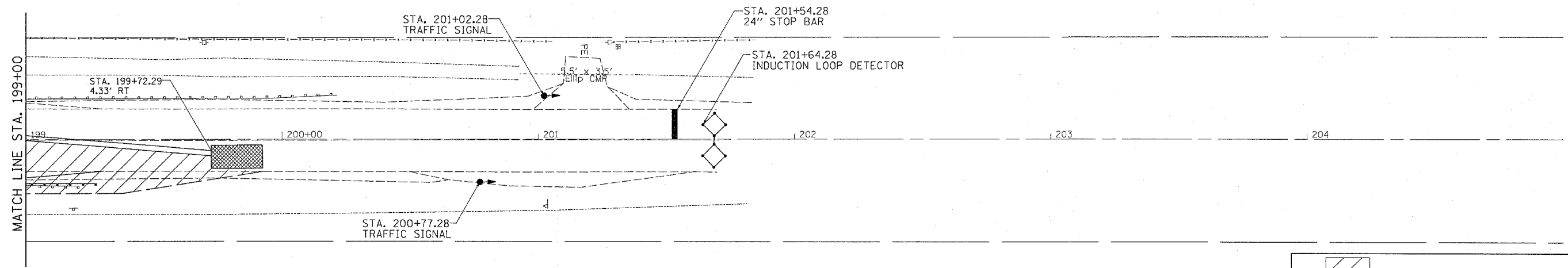
STAGING SHEETS







 = WORK ZONE
 = TRAFFIC SIGNAL
 = INDUCTION LOOP DETECTOR
 = IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3



NOTE:
THIS TRAFFIC CONTROL AND PROTECTION SHALL BE SET UP AND PAID FOR ACCORDING TO STANDARD 701321



NOTE:
THIS TRAFFIC CONTROL AND PROTECTION SHALL BE SET UP AND PAID FOR ACCORDING TO STANDARD 701321

 = WORK ZONE
 = TRAFFIC SIGNAL
 = INDUCTION LOOP DETECTOR
 = IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

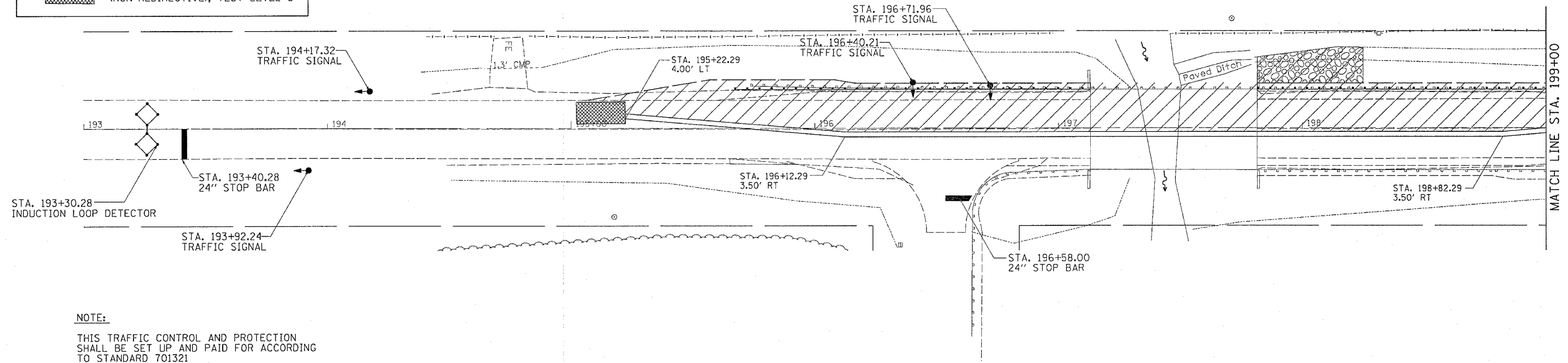
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 USER NAME = meg111

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	(19B-1) M	ROCK ISLAND	29	21
STA. TO STA.				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STAGING SHEETS

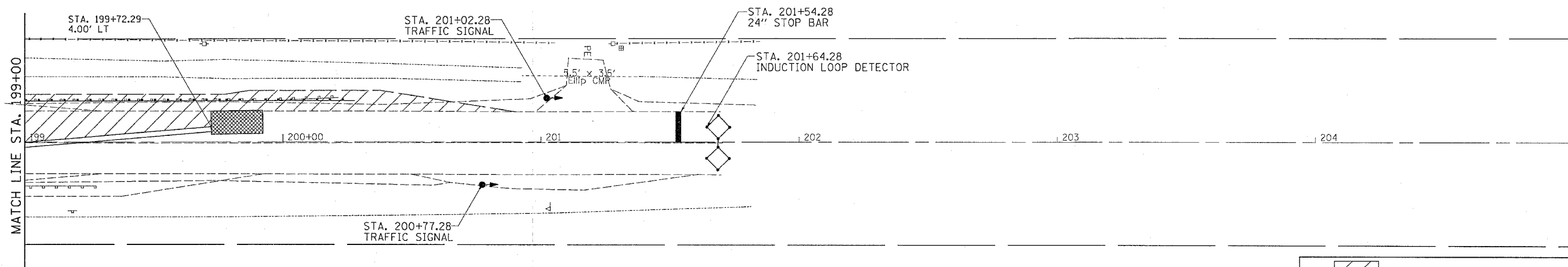


= WORK ZONE
 = TRAFFIC SIGNAL
 = INDUCTION LOOP DETECTOR
 = IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3



NOTE:

THIS TRAFFIC CONTROL AND PROTECTION SHALL BE SET UP AND PAID FOR ACCORDING TO STANDARD 701321



NOTE:

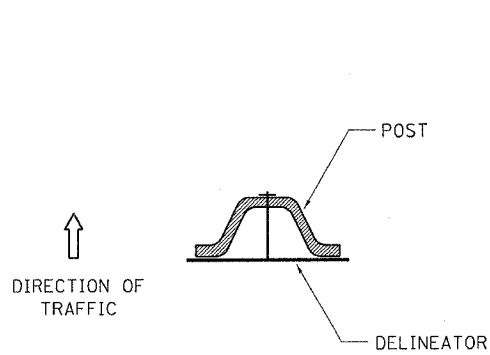
THIS TRAFFIC CONTROL AND PROTECTION SHALL BE SET UP AND PAID FOR ACCORDING TO STANDARD 701321

= WORK ZONE
 = TRAFFIC SIGNAL
 = INDUCTION LOOP DETECTOR
 = IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

PLOT DATE = Wed Oct 26 11:05:23 2005
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 PLOT SCALE = 28.0000' / IN.
 USER NAME = megillj

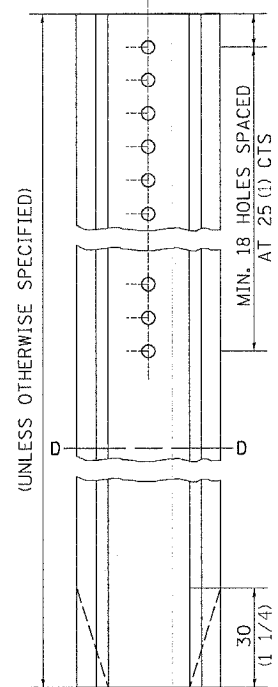
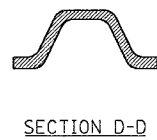
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	(198-1) M	ROCK ISLAND	29	22
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DELINEATOR AND POST ORIENTATION



DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180°. THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE DELINEATOR ATTACHED AS SHOWN ABOVE.

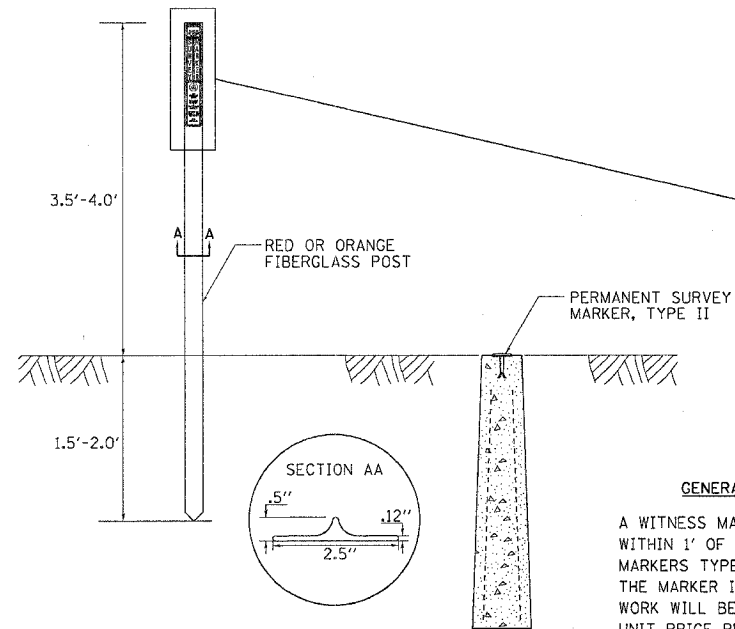
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.



DELINEATOR AND POST ORIENTATION 37.4

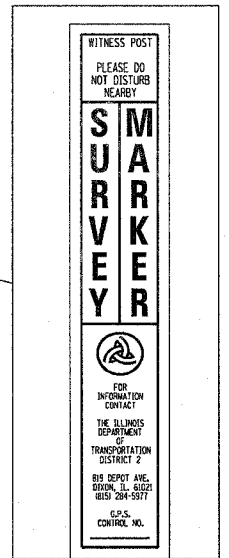
REVISED 1-31-00

WITNESS MARKER FOR PERMANENT SURVEY MARKERS TYPE II



GENERAL NOTES

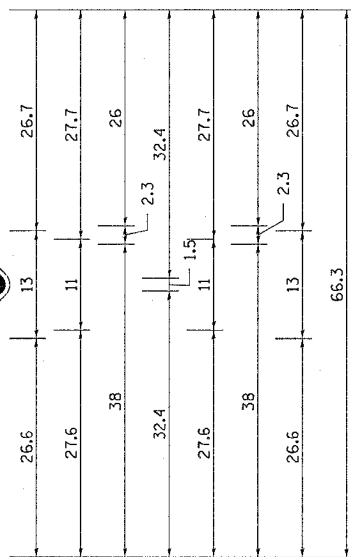
A WITNESS MARKER SHALL BE INSTALLED WITHIN 1' OF ALL PERMANENT SURVEY MARKERS TYPE II EXCEPT IN AREAS WHERE THE MARKER IS IN THE SIDEWALK. THIS WORK WILL BE INCLUDED TO THE CONTRACT UNIT PRICE PER EACH FOR PERMANENT SURVEY MARKERS, TYPE II.



WITNESS MARKER FOR PERMANENT SURVEY MARKERS TYPE II 38.4

REVISED 1-31-00

INFORMATIONAL WARNING SIGN (FOR NARROW TRAVEL LANES)



NOTES

W12-2 - Horizontal Clearance Sign
48.0" across sides, 1.9" Radius,
0.8" Border, 0.5" Indent, Black on
Orange; Standard Arrow Custom
10.4" X 8.1" 180° Black 11 Inch
D Series Lettering; Standard Arrow
Custom 10.4" X 8.1" 0°

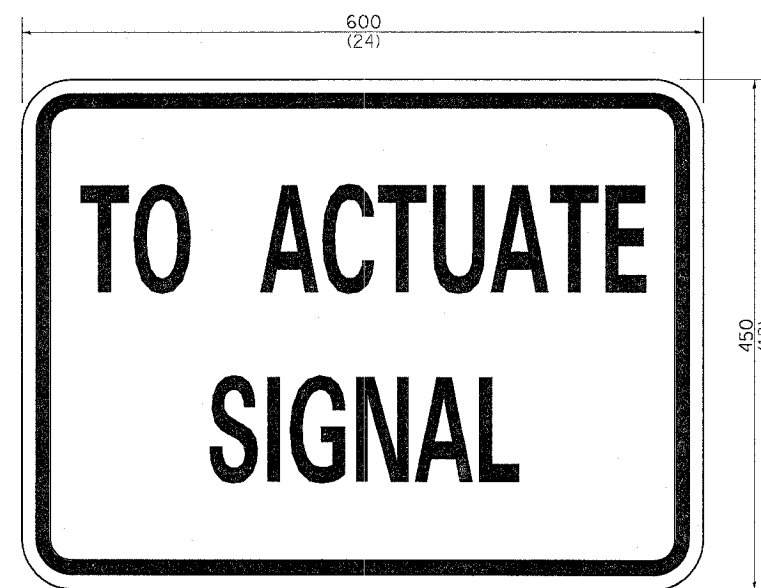
All work to furnish and install these signs shall be included in the cost of the Traffic Control Standards and shall not be paid for separately.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

INFORMATIONAL WARNING SIGN (FOR NARROW TRAVEL LANES) 39.4

REVISED 6-29-05

STOP LINE SIGN FOR TEMPORARY SIGNALS



SIZE: 600(24) x 450(18)
100(4) CAPITAL LETTERS - BLACK
13 (1/2) BORDER - BLACK
WHITE REFLECTIVE - TYPE B
ENGINEERING GRADE SHEETING

GENERAL NOTE:

THIS SIGN SHALL BE INSTALLED AT THE STOP LINE AS DIRECTED BY ENGINEER.

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

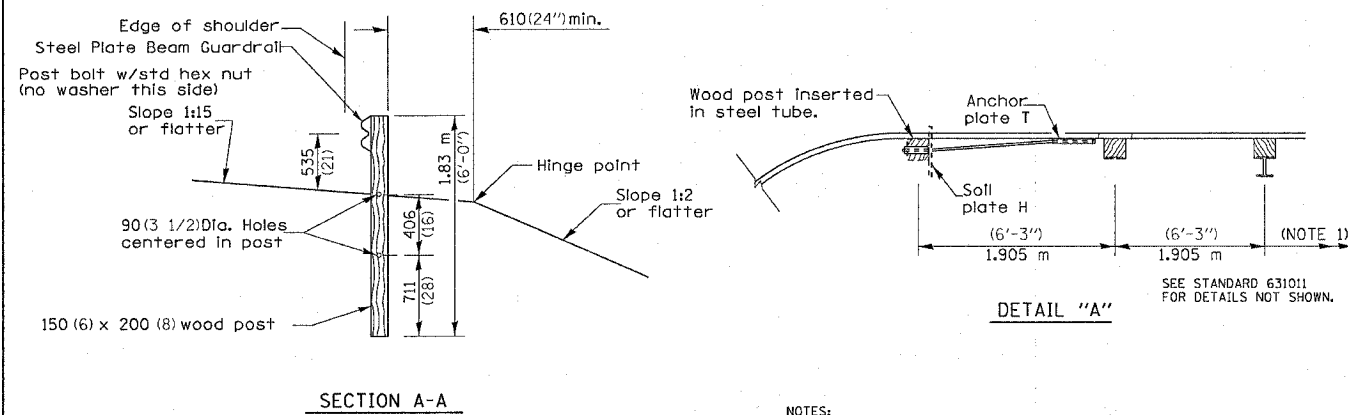
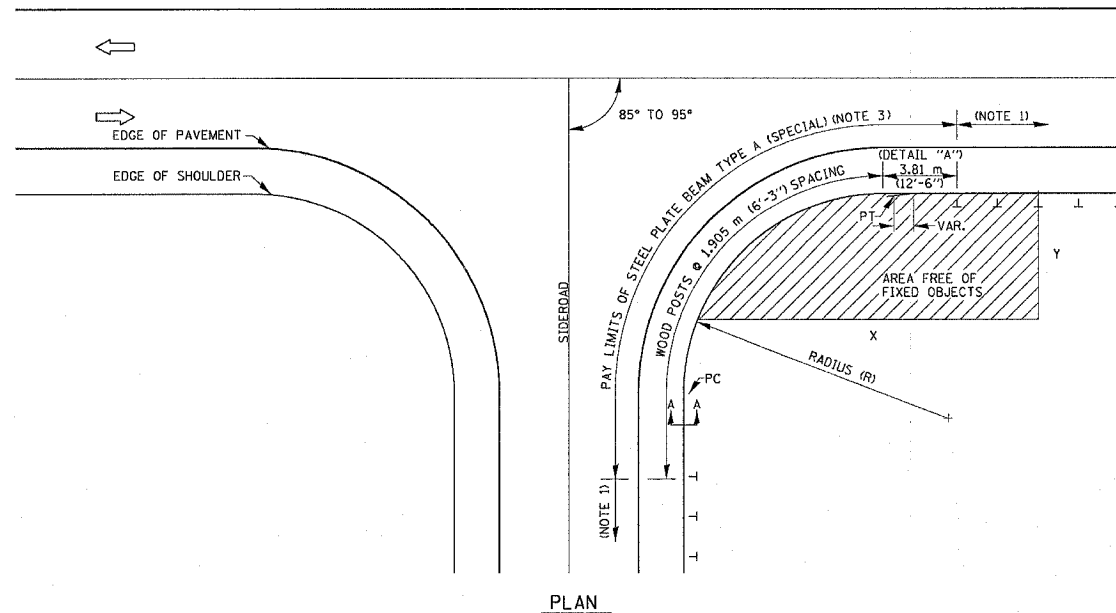
STOP LINE SIGN FOR TEMPORARY SIGNALS 99.4

REVISED 8-7-90

PLOT DATE = Wed Oct 26 11:06:26 2005
PLOT NAME = S:\projects\12628585\64868601\up-dgn
PLOT SCALE = 1/16
REFERENCE = #REF#

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	(19B-1) M	ROCK ISLAND	29	23
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STEEL PLATE BEAM GUARD RAIL, TYPE A (SPECIAL)



NOTES:

- STEEL PLATE BEAM GUARDRAIL TYPE A, TYPE B, OR TRAFFIC BARRIER TERMINAL AS SPECIFIED.
- FOR THE 2.59 m (8'-6") RADIUS, THE RAIL IS NOT BOLTED TO THE POST LOCATED AT THE MIDPOINT OF THE CURVE.
- STEEL PLATE BEAM GUARDRAIL, TYPE A (SPECIAL) MEASURED FOR PAYMENT IN METERS (FEET), THE LENGTH MEASURED WILL BE THE OVERALL LENGTH OF THE SINGLE RAIL ERECTED MEASURED ALONG THE TOP EDGE OF THE RAIL ELEMENTS TO THE LIMITS SHOWN ON THE PLANS.
- BLOCK OUTS SHALL NOT BE USED WITHIN LIMITS OF THIS PAY ITEM.

GENERAL NOTES

ALL SLOPE RATIOS ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H).

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

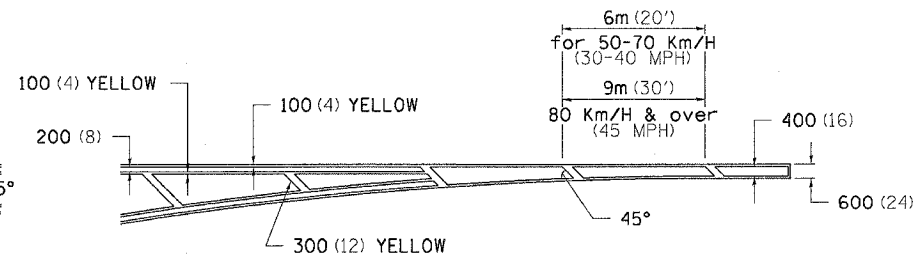
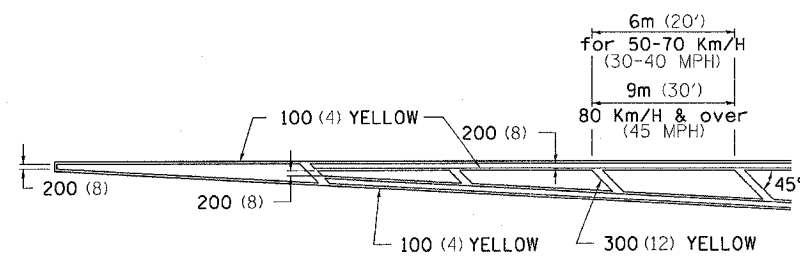
R	NO. OF WOOD POSTS	X	Y
2.59 (8'-6")	5 (NOTE 2)	7.6 m (25')	4.6 (15')
5.18 (17'-0")	6	9.1 m (30')	4.6 (15')
7.77 (25'-6")	8	12.2 m (40')	6.1 (20')
10.67 (35'-0")	11	15.2 m (50')	6.1 (20')

PLOT DATE = Wed Oct 26 11:06:26 2005
 FILE NAME = c:\vpro\projects\142060605\060605.dgn
 PLOT SCALE = 50.0000 / 1"
 REFERENCE = BREF\$

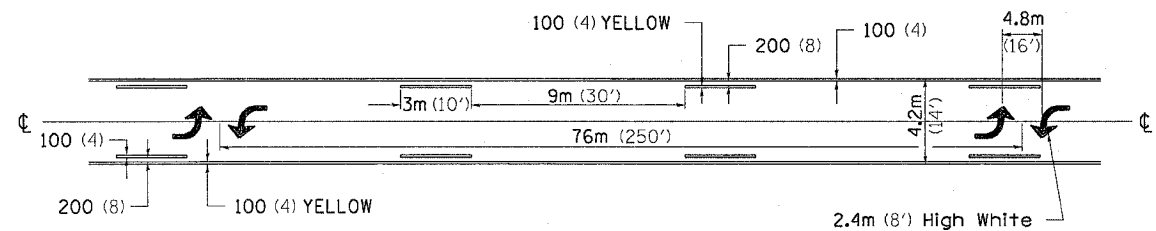
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	(19B-1) M	(19B-1) M	29	24
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL PAVEMENT MARKINGS

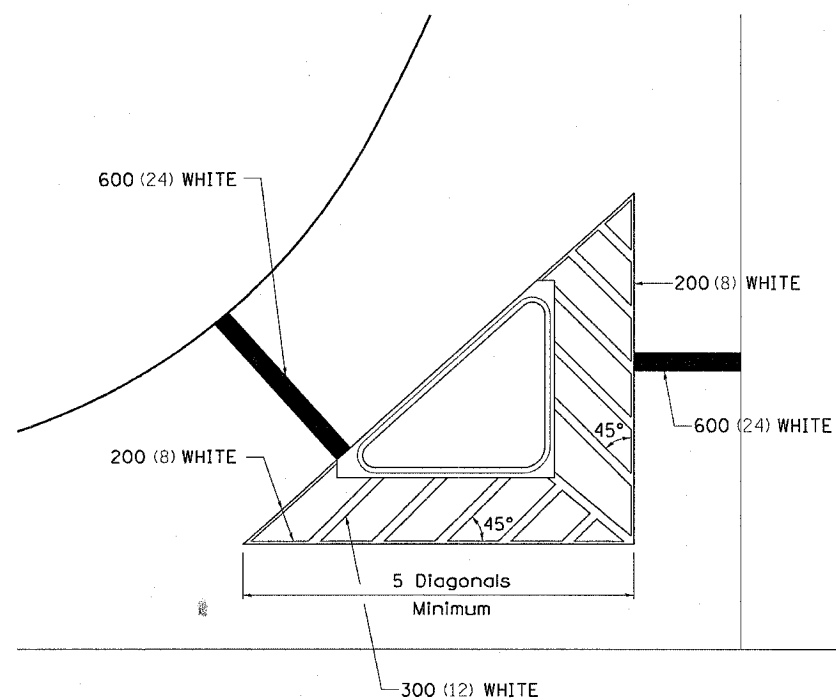
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



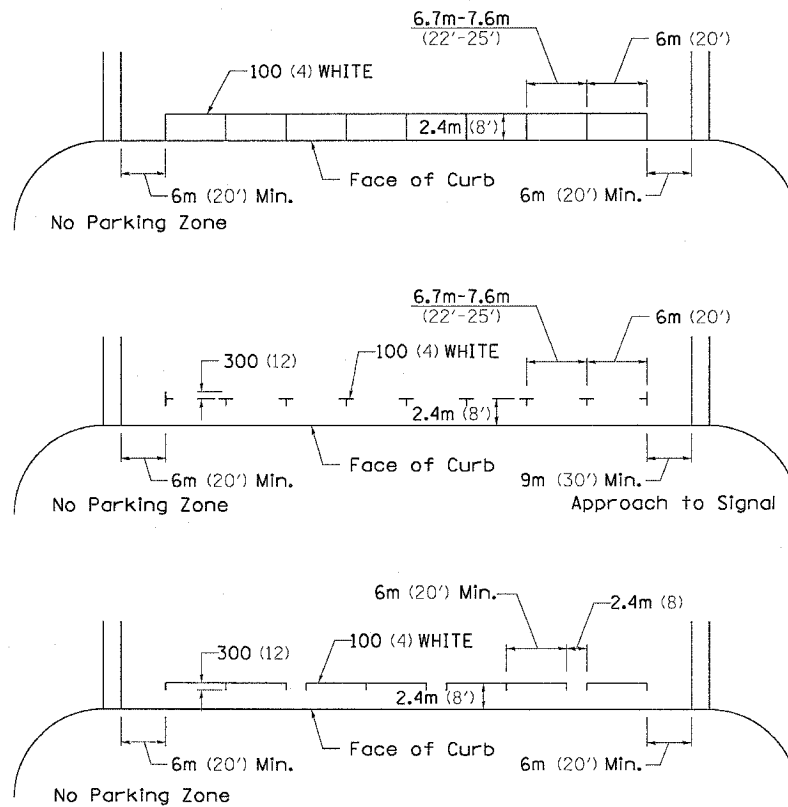
MEDIAN PAVEMENT MARKING



TYPICAL ISLAND OFFSET SHOULDER WIDTH



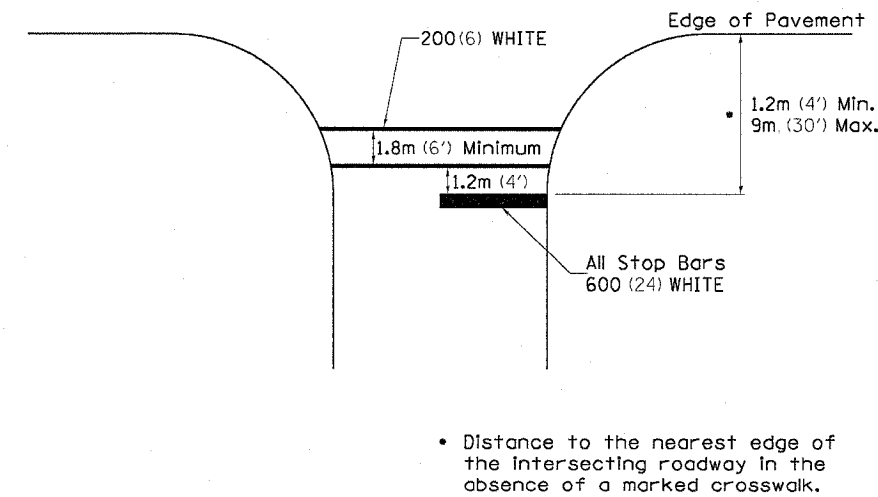
TYPICAL PARKING SPACING



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

STANDARD CROSSWALK MARKING

See Schedules for Locations

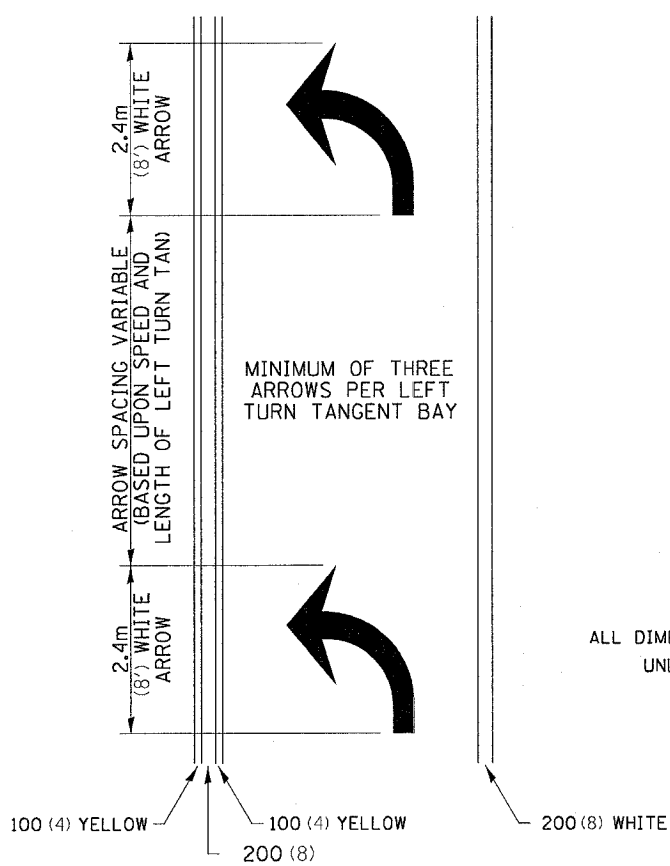


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REFERENCE = REF#

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	(19B-1) M	ROCK ISLAND	29	25
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

TYPICAL PAVEMENT MARKINGS

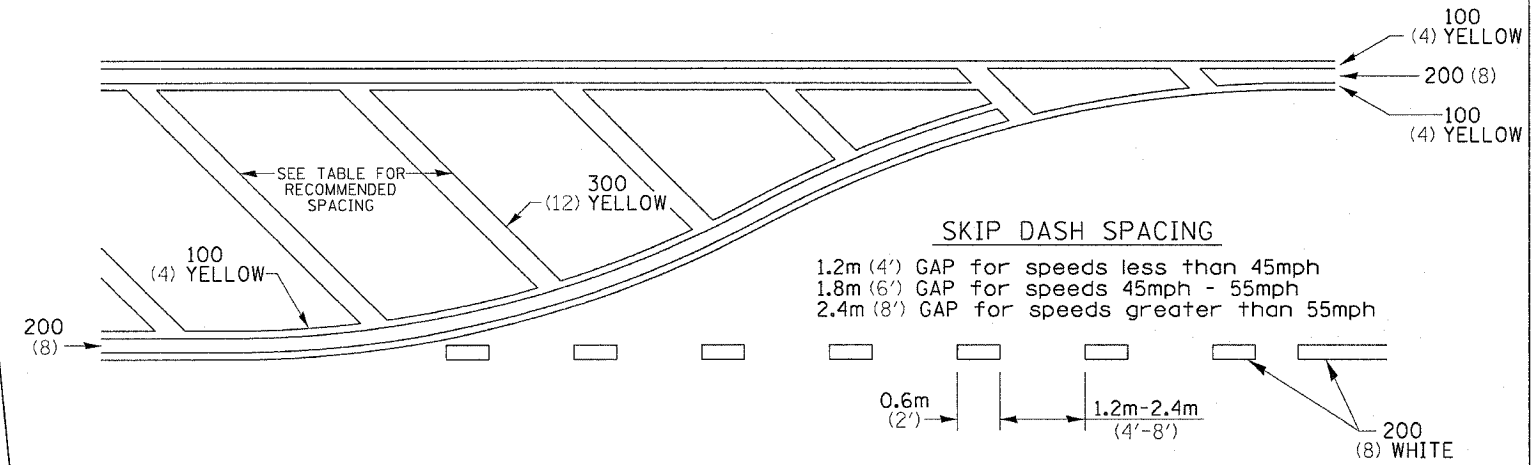
ARROW LAYOUT



- ▲ ONE-WAY AMBER MARKER
- △ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

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

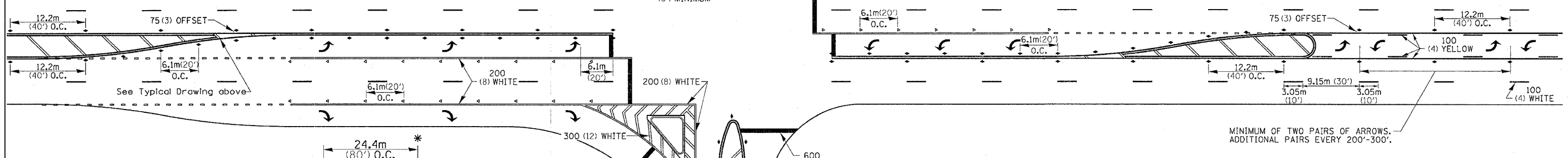
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



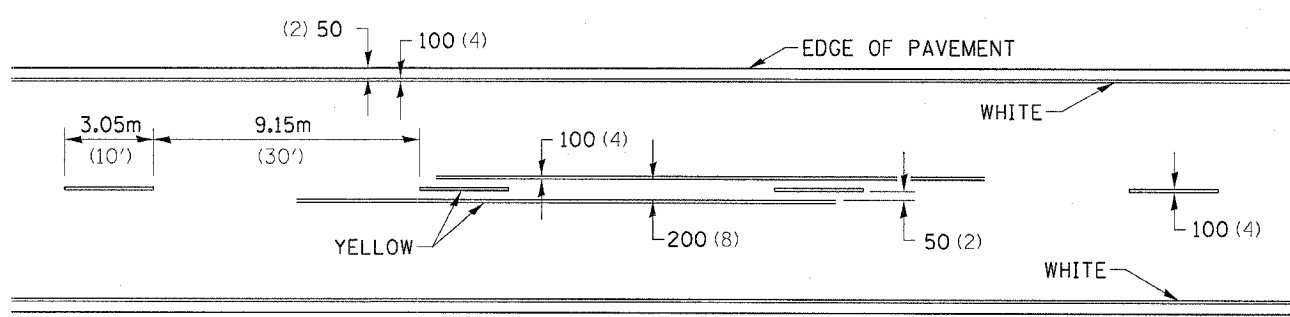
RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 50Km/H (30MPH)	15.3m (50')	4.53m (15')	3.05m (10')
50-60Km/H (30-40MPH)	22.9m (75')	6.1m (20')	4.53m (15')
70Km/H (45MPH) & over	22.9m (75')	9.05m (30')	6.1m (20')

NOTE: if the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES



SYMBOLS

See Typical Drawing above
12.2m (40') O.C. APPROACH SIDE ONLY

- * REDUCE TO 12.2m (40') O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 15Km/H (10MPH) LOWER THAN POSTED SPEEDS.
- ** USE DOUBLE MARKERS WHEN ADT ≥ 25,000

MULTI-LANE / UNDIVIDED

PLOT DATE = Wed Oct 26 11:06:26 2005
 PLOT NAME = N:\projects\2005\64806\64806.dgn
 PLOT SCALE = 50
 REFERENCE = REF

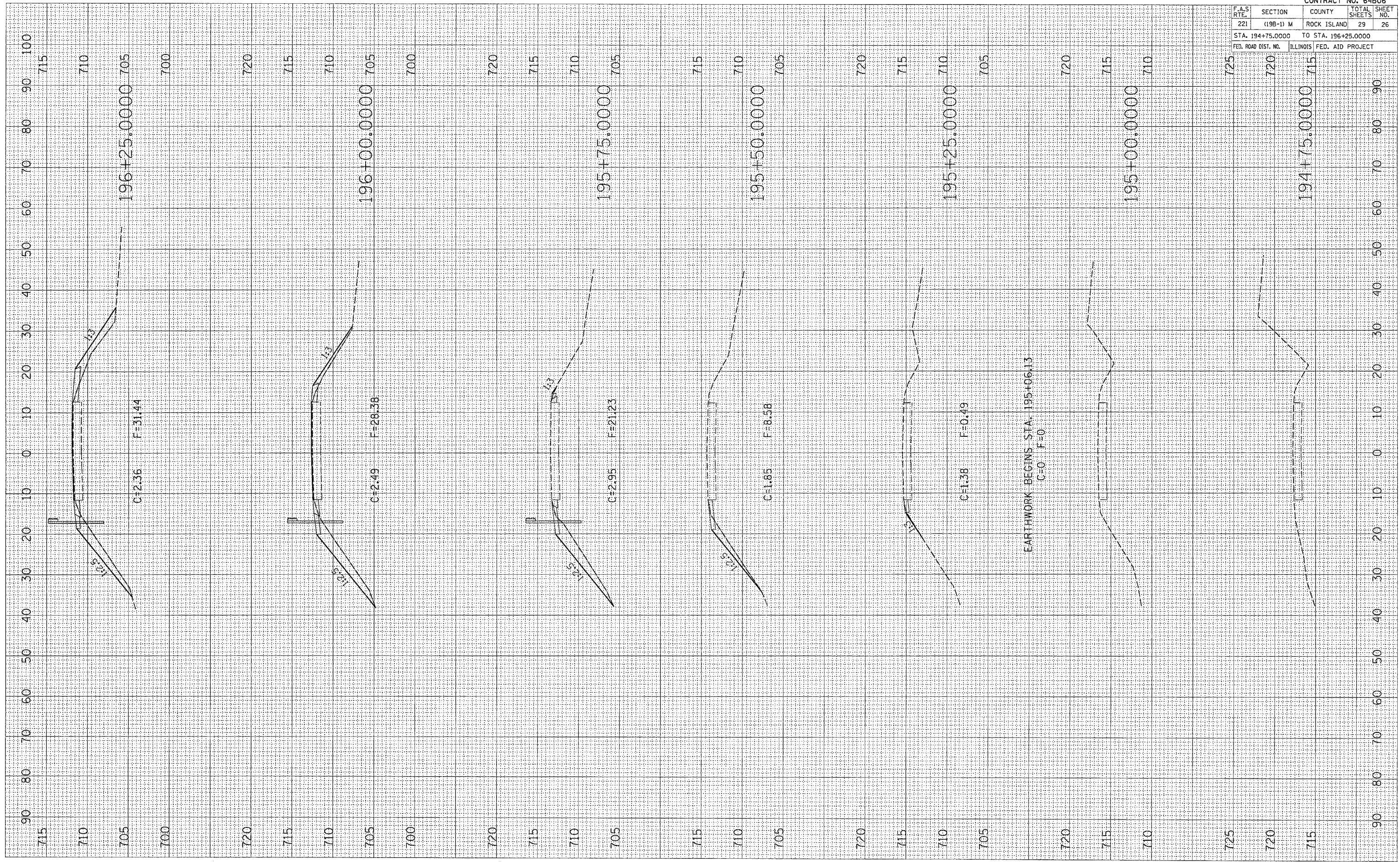
PLOT DATE = Wed Oct 26 14:52:33 2005
 FILE NAME = c:\projects\194+75.000\194+75.000.dwg
 USER NAME = mgj/14

ORIGINAL SURVEY PLOTTED
 SURVEY PLOTTED
 NOTE BOOK NO. _____
 AREAS CHECKED _____

FINAL SURVEY PLOTTED
 SURVEY PLOTTED
 NOTE BOOK NO. _____
 AREAS CHECKED _____

BY _____

DATE _____

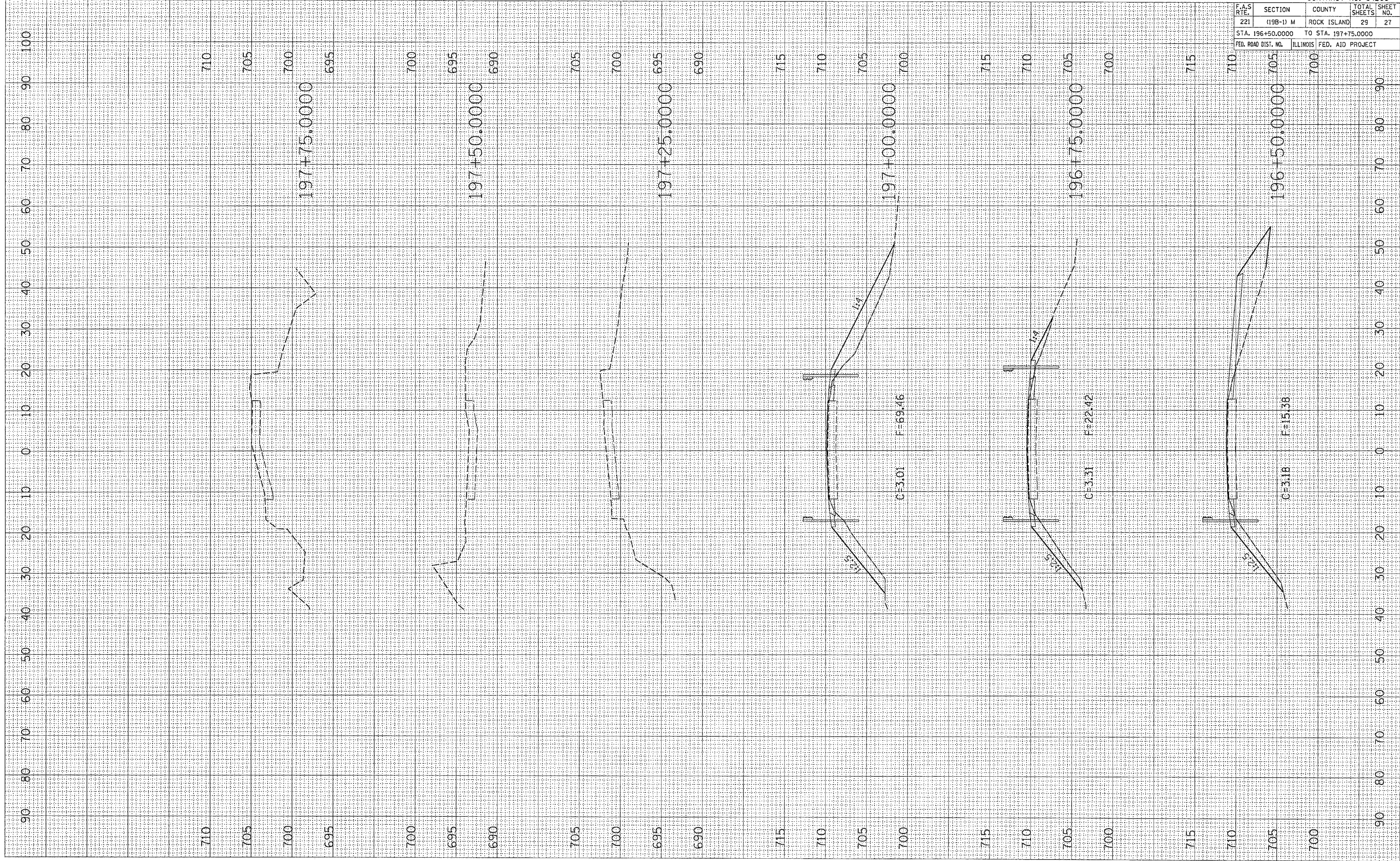


CONTRACT NO. 64B06			
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS
221	(19B-1) M	ROCK ISLAND	29
STA. 194+75.0000		TO STA. 196+25.0000	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	

PLOT DATE = Wed Oct 26 11:05:23 2005
 PLOT SCALE = 10.0000' / IN.
 USER NAME = mgj11j

ORIGINAL SURVEYED
 SURVEY PLOTTED
 NOTE BOOK TEMPLATE
 NO. AREAS CHECKED

BY DATE
 SURVEYED PLOTTED
 NOTE BOOK TEMPLATE
 NO. AREAS CHECKED



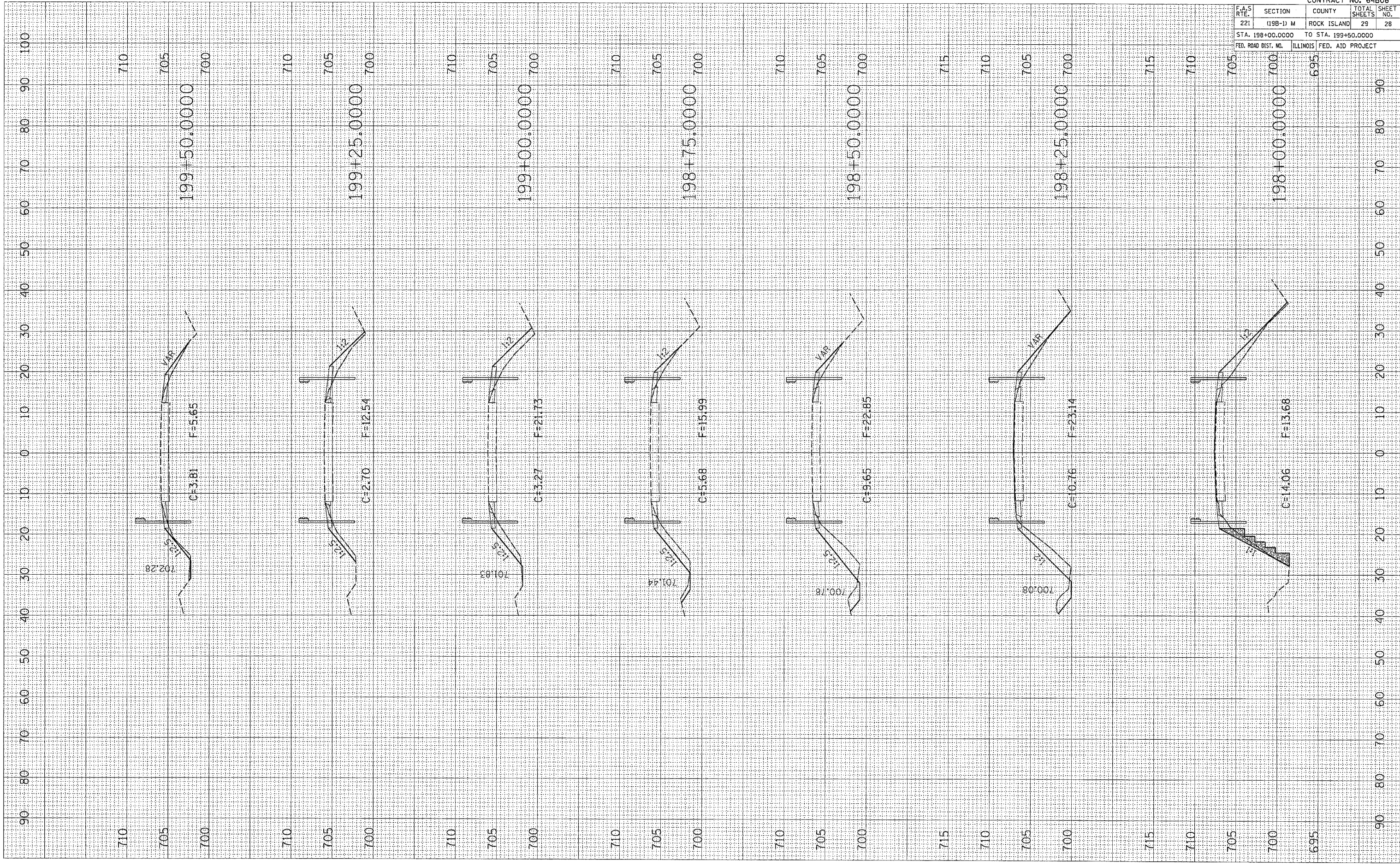
CONTRACT NO. 64B06				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	(19B-1) M	ROCK ISLAND	29	27
STA. 196+50.0000		TO STA. 197+75.0000		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

PLOT DATE = Wed Dec 26 11:05:24 2005
 PLOT SCALE = 1/8" = 20.0000' / IN.
 USER NAME = mmg111j

ORIGINAL SURVEYED SURVEY PLOTTED PLOTTED
 NOTE BOOK NO. AREAS CHECKED

FINAL SURVEYED SURVEY PLOTTED PLOTTED
 NOTE BOOK NO. AREAS CHECKED

BY DATE



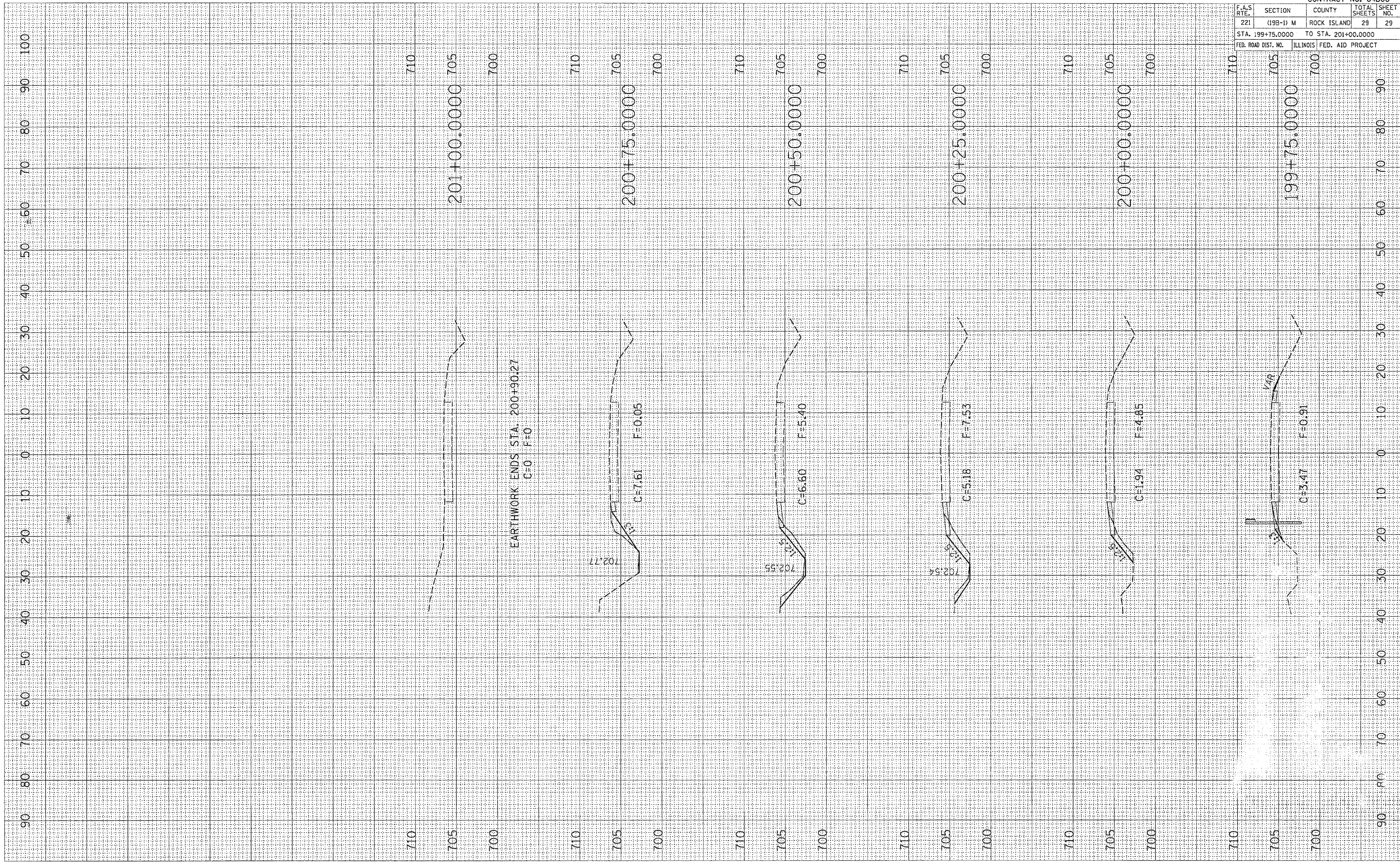
CONTRACT NO. 64B06				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	(198-1) M	ROCK ISLAND	29	28
STA. 198+00.0000 TO STA. 199+50.0000				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	(19B-1) M	ROCK ISLAND	29	29
STA. 199+75.0000		TO STA. 201+00.0000		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DATE	BY

DATE	BY

PLOT DATE = Wed Oct 26 11:05:24 2005
 FILE NAME = c:\projects\64B06\64B06.dwg
 USER NAME = mgj/uj



EARTHWORK ENDS STA. 200+90.27
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702.77
 C=7.61 F=0.05

702.55
 C=6.60 F=5.40

702.54
 C=5.18 F=7.53

C=1.94 F=4.85

C=3.47 F=0.91