

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	134-1BR-2	MADISON	56	1

+13  
69

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

FAP ROUTE 785 (IL ROUTE 140)

SECTION 134-1BR-2

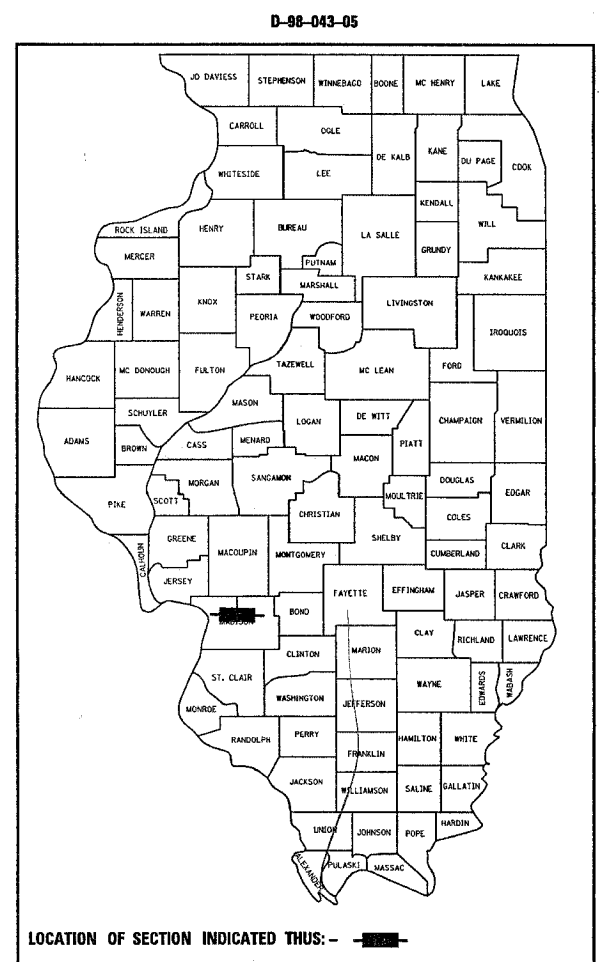
PROJECT: F-0785(027)

REMOVAL AND REPLACEMENT OF THE STRUCTURE CARRYING IL ROUTE 140  
OVER CAHOKIA CREEK W/ SCOUR MITIGATION

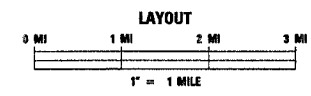
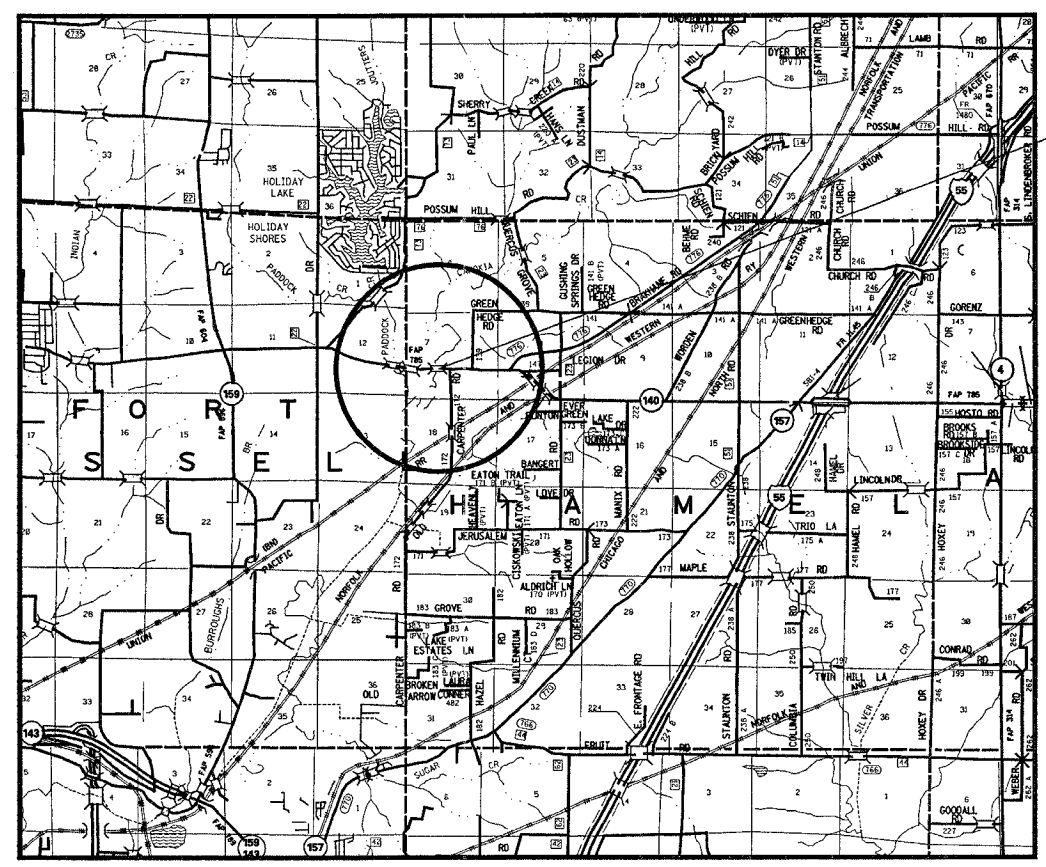
MADISON COUNTY

C-98-014-07

FOR INDEX OF SHEETS, AND LIST OF  
STANDARDS AND GENERAL NOTES  
SEE SHEET NO. 2



LOCATION OF SECTION INDICATED THUS: - [shaded box] -



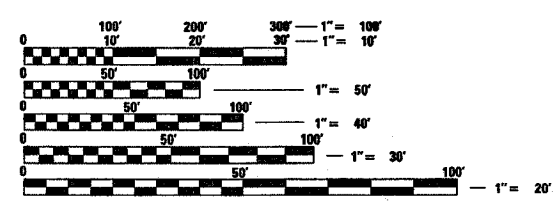
PROJECT LOCATION

BEGIN  
STA. 622+45.00

END  
STA. 625+35.00

GROSS LENGTH = .05 MILES (290 FT)  
NET LENGTH = .05 MILES (290 FT)  
LATITUDE = 38.89481  
LONGITUDE = 89.92170

MICROFILMED \_\_\_\_\_  
REEL NUMBER \_\_\_\_\_  
AWARDED \_\_\_\_\_  
RESIDENT ENGINEER \_\_\_\_\_  
AS BUILT CHANGES WERE MADE  
ON THE FOLLOWING SHEETS



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

CONTRACT NO. 76902

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED March 22 2007  
May C. Romi  
DEPUTY DIRECTOR OF HIGHWAYS  
REGION FIVE ENGINEER

May 11 2007  
Eric E. Howard  
ENGINEER OF DESIGN AND ENVIRONMENT

May 11 2007  
Milton R. See  
DIRECTOR, DIVISION OF HIGHWAYS

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

PROJECT ENGINEER: PATTI LEBEAU (618) 346-3179  
SQUAD CONTACT: ART MUEHLFELD (618) 346-3209

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	134-IBR-2	MADISON	56	2
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

## INDEX OF SHEETS

1	COVER SHEET
2	INDEX OF SHEETS/HIGHWAY STANDARDS/GENERAL NOTES
3-4	SUMMARY OF QUANTITIES
5-7	TYPICAL SECTIONS
8-9	SCHEDULE OF QUANTITIES/TIE POINTS
10-12	PLAN AND PROFILE SHEET
13-14	STAGING AND TRAFFIC CONTROL
15	WIDE LOAD SIGNING PLAN
16-18	EROSION AND STORM WATER POLLUTION PREVENTION PLAN
19	REMOVAL PLAN SHEETS
20-21	PLAT OF HIGHWAYS
22-44	STRUCTURE PLAN SHEETS
45	ENTRANCE DETAILS
46 A.	DETAILS
47-48	INLET BOX TYPE D DETAILS
49-56	CROSS SECTIONS
56A-56L	EXISTING STRUCTURE PLANS

## GENERAL NOTES

- THE STANDARDS AND REVISIONS NUMBERS LISTED SHALL APPLY TO THIS PROJECT.
- ANY REFERENCE TO "BITUMINOUS CONCRETE" IN THIS PLAN SHALL BE CONSTRUED TO DENOTE "HOT-MIX ASPHALT".
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIAL.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE THE MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THE LOCATION.
- ILLINOIS STATE LAW REQUIRES A 48- HOUR NOTICE TO BE GIVEN TO UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:
  - AMEREN IP
  - NORTHEAST CENTRAL COUNTY PUBLIC WATER DISTRICT
  - AT&T CORPORATION
  - SOUTHWESTERN ELECTRIC COOPERATIVE, INC.
 (MEMBERS OF J.U.L.I.E. (800) 892-0123 ARE INDICATED BY •. NON-MEMBERS MUST BE NOTIFIED INDIVIDUALLY.)
- THE THICKNESS OF THE BITUMINOUS MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.
- SHORT-TERM PAVEMENT MARKING SHALL BE APPLIED TO THE MILLED, PRIMED, AND FINAL SURFACE. REMOVAL SHALL BE FROM THE FINAL SURFACE ONLY AND SHALL BE PAID FOR AS WORK ZONE PAVEMENT MARKING REMOVAL.
- FLAGMEN SHALL BE PRESENT DURING ALL CLOSURE HOURS INCLUDING LUNCH HOURS AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT ADJACENT PAVEMENT IS NOT DAMAGED DURING ANY OPERATION.
- RIGHT OF WAY MARKERS SHALL BE SET SO THE BACK OF THE POST IS TWELVE (12") INCHES INSIDE THE RIGHT OF WAY BOUNDARY. RIGHT OF WAY PROPERTY CORNERS ARE MARKED BY A 5/8" IRON ROD WITH IDOT ALUMINUM CAP AND SHALL NOT BE REMOVED OR DISTURBED WHEN SETTING THE RIGHT OF WAY MARKER.
- EXCAVATIONS ADJACENT TO THE EDGE OF PAVEMENT SHALL BE PROTECTED WITH EXTENDED LEG BARRICADES AND APPROPRIATE FLASHING OR STEADY BURNING LIGHTS. NO ADDITIONAL COMPENSATION FOR THIS WILL BE ALLOWED.

## HIGHWAY STANDARDS

000001-04	631031-06	701321-08
001001-01	635006-02	701326-02
001006	635011-01	702001-06
280001-03	666001	704001-03
420401-05	701001-01	728001
515001-02	701006-02	886006
542401	701011-01	
630001-07	701201-02	
630301-04	701301-02	
631011-03	701306-01	

## COMMITMENTS

NO COMMITMENTS

PLOT DATE = 3/22/2007  
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 PLOT SCALE = 1"=100'-0"  
 REFERENCE = #REF#

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TYPICAL SECTIONS**  
 FAP ROUTE  
 SECTION  
 COUNTY

SCALE: VERT.  
 DATE:            HORIZ.

DRAWN BY  
 CHECKED BY

# SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	134-1BR-2	MADISON	56	3
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE			
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	80% FEDERAL 20% STATE X071-2A		
X0321430	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC) SPECIAL	SQ YD	138	138		
X0325738	INLET BOX, TYPE D	EACH	4	4		
52100530	ANCHOR BOLTS, 1 1/4"	EACH	24	24		
20200100	EARTH EXCAVATION	CU YD	266	266		
20400800	FURNISHED EXCAVATION	CU YD	873	873		
20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	203	203		
25000200	SEEDING, CLASS 2	ACRE	0.6	0.6		
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	55	55		
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	55	55		
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	55	55		
25100115	MULCH, METHOD 2	ACRE	0.6	0.6		
25100630	EROSION CONTROL BLANKET	SQ YD	1115	1115		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	181	181		
28000400	PERIMETER EROSION BARRIER	FOOT	749	749		
28000500	INLET AND PIPE PROTECTION	EACH	4	4		
28100105	STONE RIPRAP, CLASS A3	SQ YD	32	32		
28100109	STONE RIPRAP, CLASS A5	SQ YD	3424	3424		
28200200	FILTER FABRIC	SQ YD	3424	3424		
31100300	SUB-BASE GRANULAR MATERIAL, TYPE A 4"	SQ YD	378	378		
35100700	AGGREGATE BASE COURSE, TYPE A 8"	SQ YD	67	67		
35501320	HOT-MIX ASPHALT BASE COURSE, 9"	SQ YD	543	543		
40200700	AGGREGATE SURFACE COURSE, TYPE A 8"	SQ YD	325	325		
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	49	49		
40600300	AGGREGATE (PRIME COAT)	TON	1	1		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	236	236		
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	26	26		
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	13	13		
42001165	BRIDGE APPROACH PAVEMENT	SQ YD	278	278		
42001200	PAVEMENT FABRIC	SQ YD	278	278		
42001300	PROTECTIVE COAT	SQ YD	416	416		
44000100	PAVEMENT REMOVAL	SQ YD	358	358		
44004250	PAVED SHOULDER REMOVAL	SQ YD	307	307		
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1		
50200100	STRUCTURE EXCAVATION	CU YD	208	208		
50200300	COFFERDAM EXCAVATION	CU YD	796	796		

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE			
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	80% FEDERAL 20% STATE X071-2A		
50202901	COFFERDAM (LOCATION-1)	EACH	1	1		
50202902	COFFERDAM (LOCATION-2)	EACH	1	1		
50300100	FLOOR DRAINS	EACH	24	24		
50300225	CONCRETE STRUCTURES	CU YD	336.8	336.8		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	423	423		
50300260	BRIDGE DECK GROOVING	SQ YD	1224	1224		
50300280	CONCRETE ENCASEMENT	CU YD	5.4	5.4		
50300300	PROTECTIVE COAT	SQ YD	1532	1532		
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1	1		
50500505	STUD SHEAR CONNECTORS	EACH	4176	4176		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	151020	151020		
50800515	BAR SPLICERS	EACH	1299	1299		
51201610	FURNISHING STEEL PILES HP12X63	FOOT	4147	4147		
51202305	DRIVING PILES	FOOT	4147	4147		
51203610	TEST PILE STEEL HP12X63	EACH	4	4		
51204650	PILE SHOES	EACH	72	72		
51500100	NAME PLATES	EACH	1	1		
52100520	ANCHOR BOLTS, 1"	EACH	24	24		
54215547	METAL END SECTIONS 12"	EACH	4	4		
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	99	99		
60100945	PIPE DRAINS 12"	FOOT	176	176		
60109580	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	170	170		
60900515	CONCRETE THRUST BLOCKS	EACH	4	4		
*63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	494	494		
*63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1		
*63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4		
*63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	2	2		
63200310	GUARDRAIL REMOVAL	FOOT	408	408		
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	4	4		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	20	20		
67100100	MOBILIZATION	L SUM	1	1		
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1		

\*SPECIALTY ITEMS

PLOT DATE = 3/22/2007  
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# SUMMARY OF QUANTITIES

F.A.P. RT#	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	134-IBR-2	MADISON	56	4
STA. 4		TO STA. 4		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		80% FEDERAL 20% STATE X071 -2A		
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1		
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1		
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1		
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1		
70106700	TEMPORARY RUMBLE STRIP	EACH	6	6		
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	100	100		
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	3091	3091		
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	22	22		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1097	1097		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	520	520		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	520	520		
* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	1563	1563		
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	17	17		
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	2		
78300100	PAVEMENT MARKING REMOVAL	SQ FT	351	351		
X0323988	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	1029	1029		
X7200200	WIDE LOAD SIGNING	L SUM	1	1		
Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	180	180		
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2		
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2		
Z0073100	TEMPORARY SHORING	EACH	2	2		
© Z0076600	TRAINEES	HOURL	1000	1000		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT				

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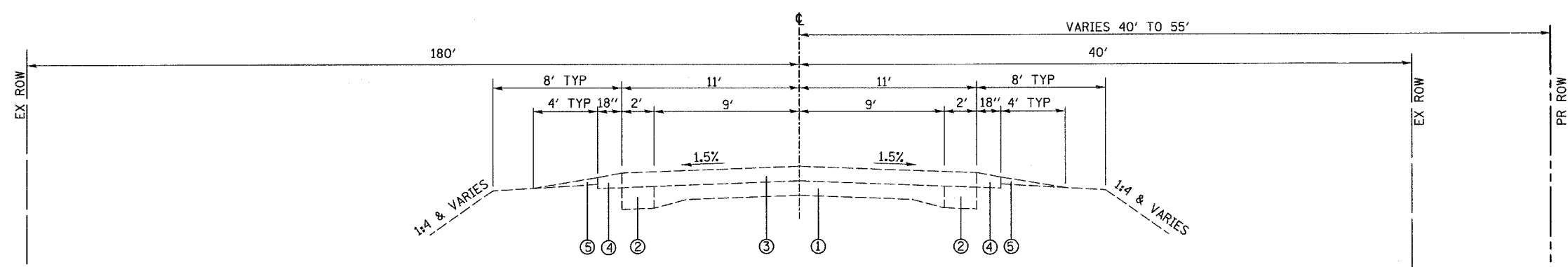
\* SPECIALTY ITEMS © YABO

REV.

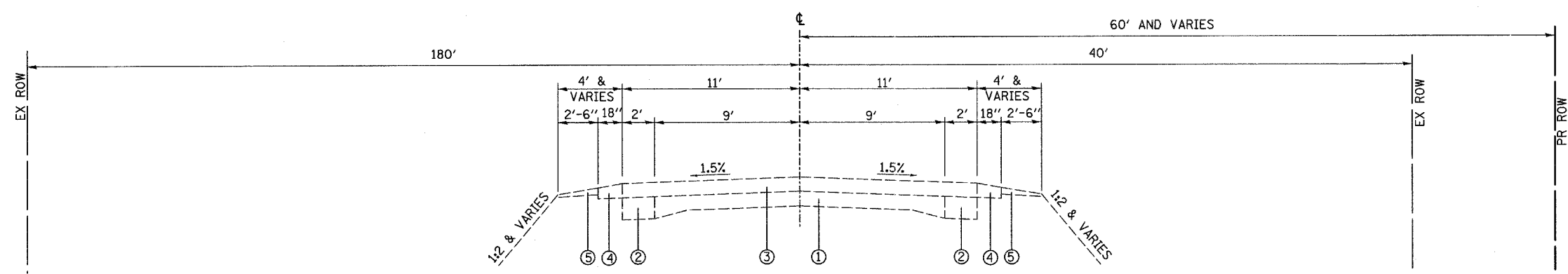
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785	134-1BR-2	MADISON	56	5
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

**LEGEND**

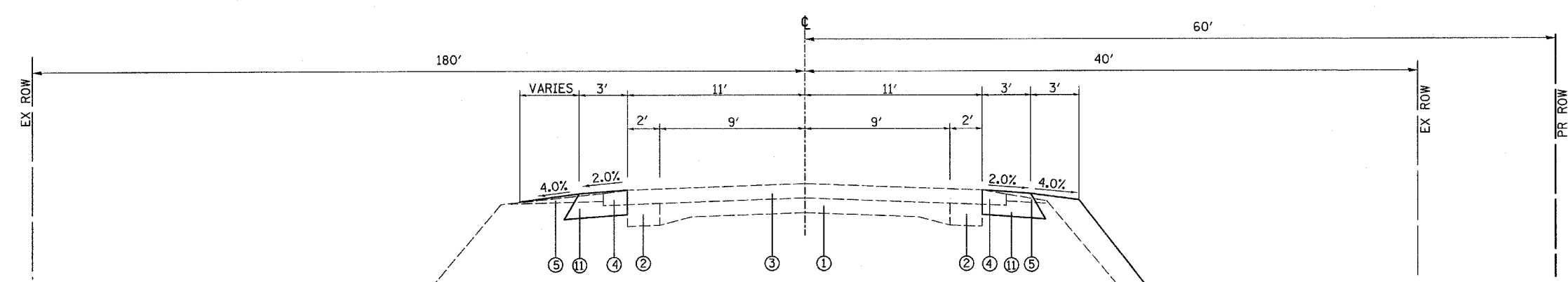
- ① EXISTING PCC PAVEMENT (9'-6"-9')
- ② EXISTING PCC WIDENING 8"
- ③ EXISTING BITUMINOUS OVERLAYS 6"±
- ④ EXISTING BITUMINOUS SHOULDER (6" @ PAVEMENT & 4 1/2 " @ OUTER EDGE)
- ⑤ EXISTING AGGREGATE SHOULDER
- ⑥ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE A, 4"
- ⑦ PROPOSED BRIDGE APPROACH PAVEMENT, STD 420401
- ⑧ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, VARIABLE DEPTH
- ⑨ BITUMINOUS MATERIALS (PRIME COAT)
- ⑩ AGGREGATE (PRIME COAT)
- ⑪ HOT-MIX ASPHALT BASE COURSE 9"
- ⑫ PROPOSED BRIDGE APPROACH PAVEMENT CONNECTOR (PCC), SPECIAL
- ⑬ PROPOSED PCC CURB, SEE TYPE D INLET BOX DETAIL SHEET 47



**EXISTING FAP RTE 785**  
STA. 619+36 TO STA. 621+50



**EXISTING FAP RTE 785**  
STA. 621+50 TO STA. 622+73  
STA. 625+06 TO STA. 633+00



**PROPOSED FAP RTE 785**  
LT. STA. 620+60 TO LT. STA. 620+96  
LT. STA. 626+90.56 TO LT. STA. 627+28.06  
RT. STA. 620+83.48 TO RT. STA. 621+19.48  
RT. STA. 626+92.58 TO RT. STA. 627+28.58

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**TYPICAL SECTIONS**

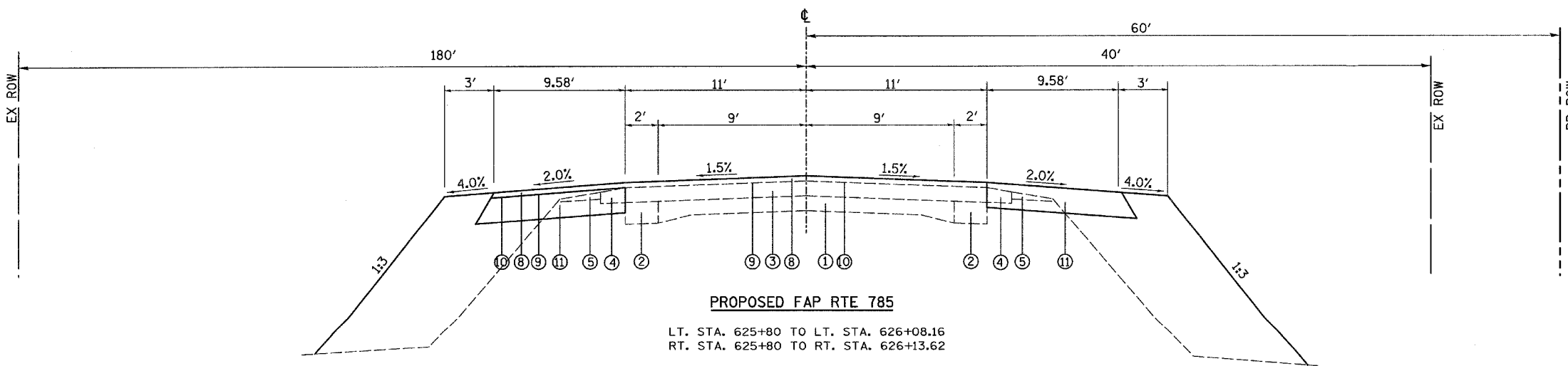
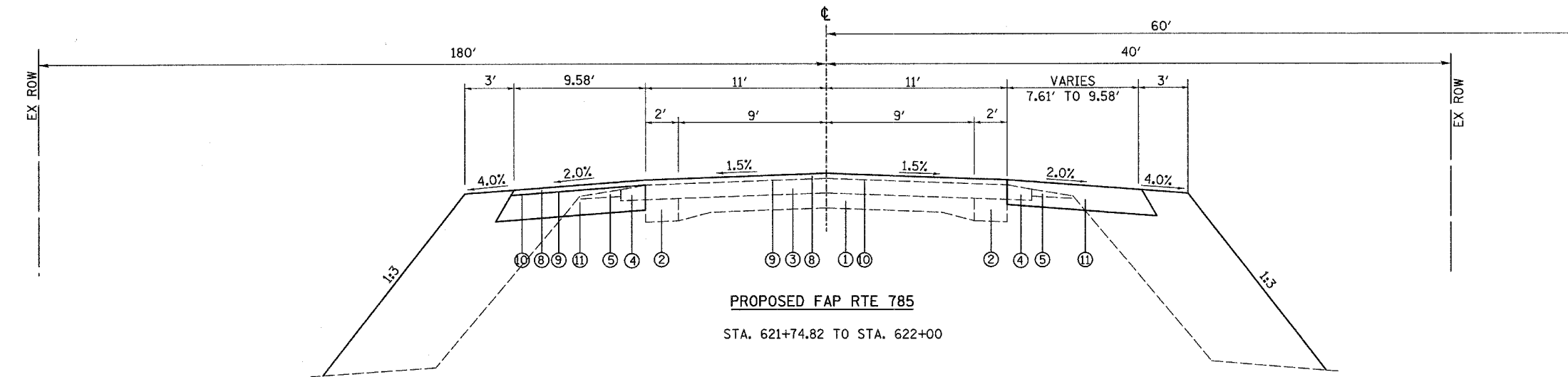
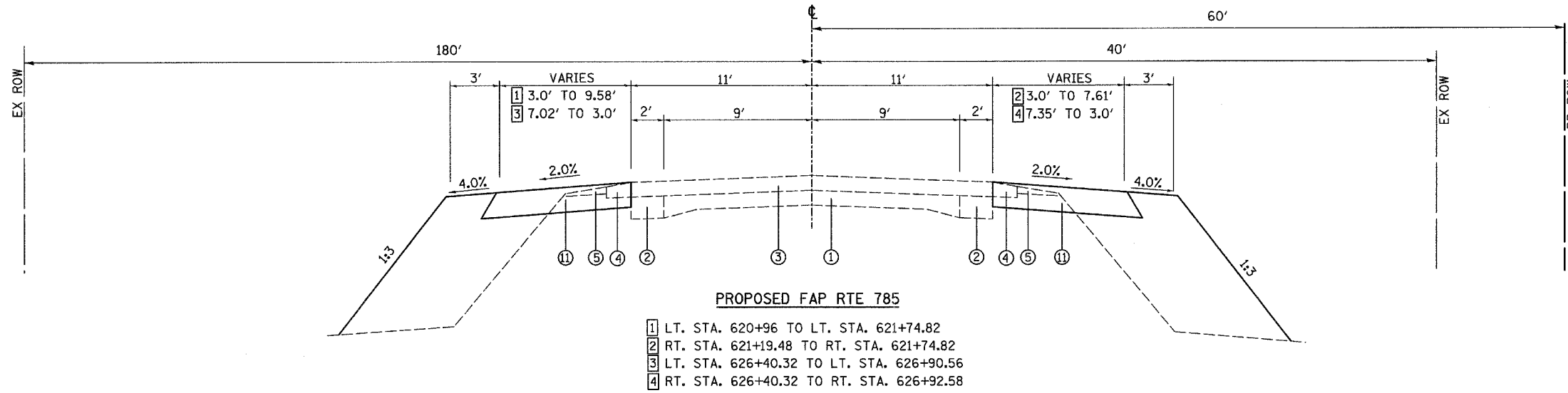
FAP ROUTE 785  
SECTION 134-1BR-2  
MADISON COUNTY

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	134-1BR-2	MADISON	56	6
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

**LEGEND**

- ① EXISTING PCC PAVEMENT (9'-6"-9")
- ② EXISTING PCC WIDENING 8"
- ③ EXISTING BITUMINOUS OVERLAYS 6"±
- ④ EXISTING BITUMINOUS SHOULDER (6" @ PAVEMENT & 4 1/2 " @ OUTER EDGE)
- ⑤ EXISTING AGGREGATE SHOULDER
- ⑥ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE A, 4"
- ⑦ PROPOSED BRIDGE APPROACH PAVEMENT, STD 420401
- ⑧ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, VARIABLE DEPTH
- ⑨ BITUMINOUS MATERIALS (PRIME COAT)
- ⑩ AGGREGATE (PRIME COAT)
- ⑪ HOT-MIX ASPHALT BASE COURSE 9"
- ⑫ PROPOSED BRIDGE APPROACH PAVEMENT CONNECTOR (PCC), SPECIAL
- ⑬ PROPOSED PCC CURB, SEE TYPE D INLET BOX DETAIL SHEET 47



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**TYPICAL SECTIONS**

FAP ROUTE 785  
 SECTION 134-1BR-2  
 MADISON COUNTY

PLOT DATE = 03/21/2007  
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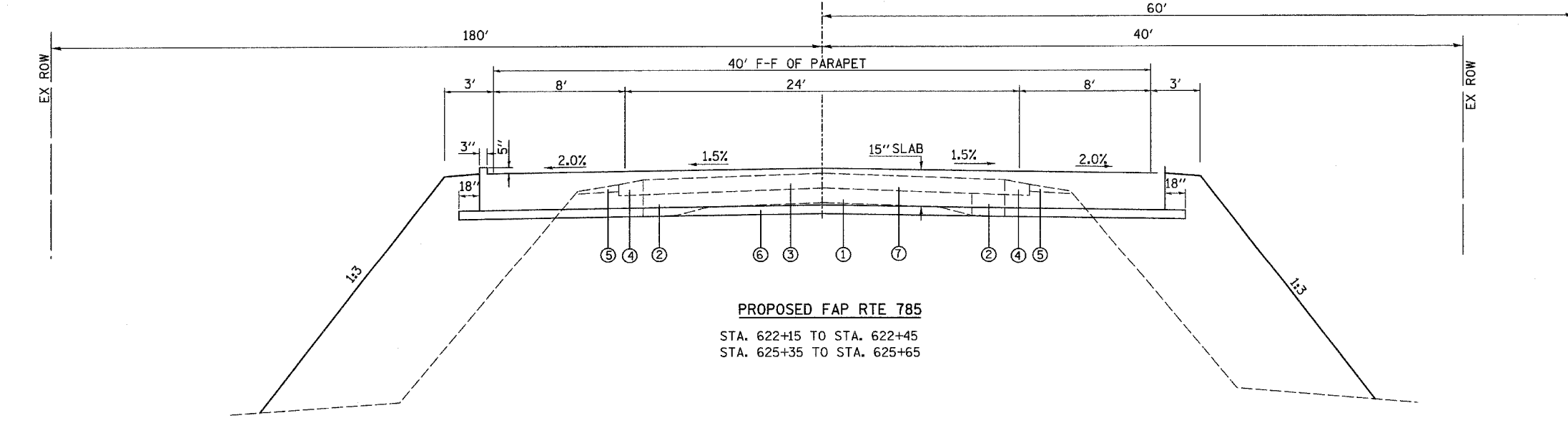
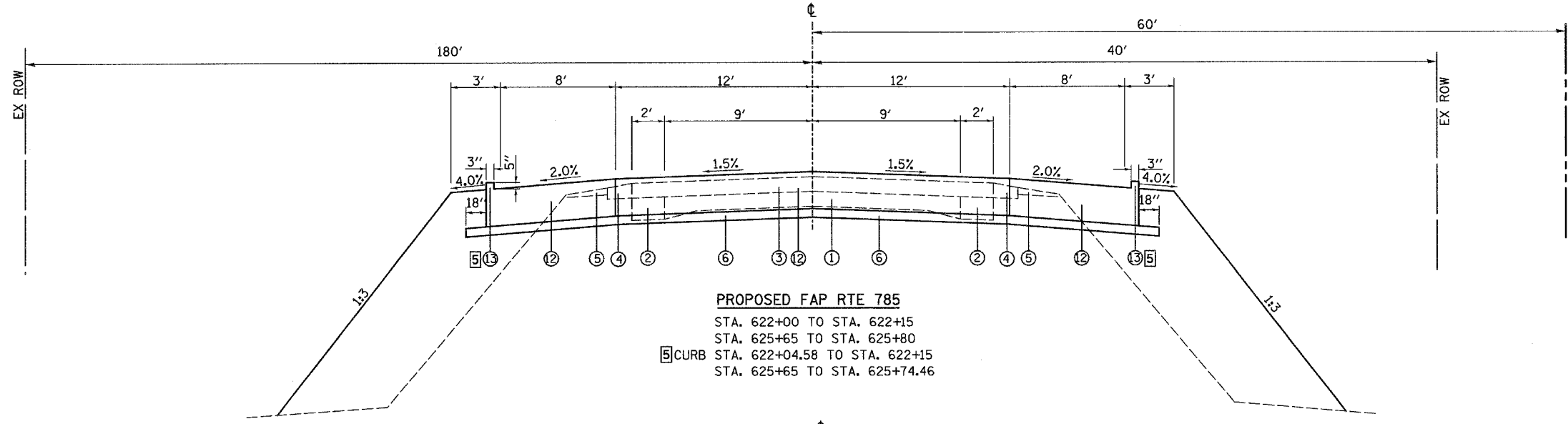
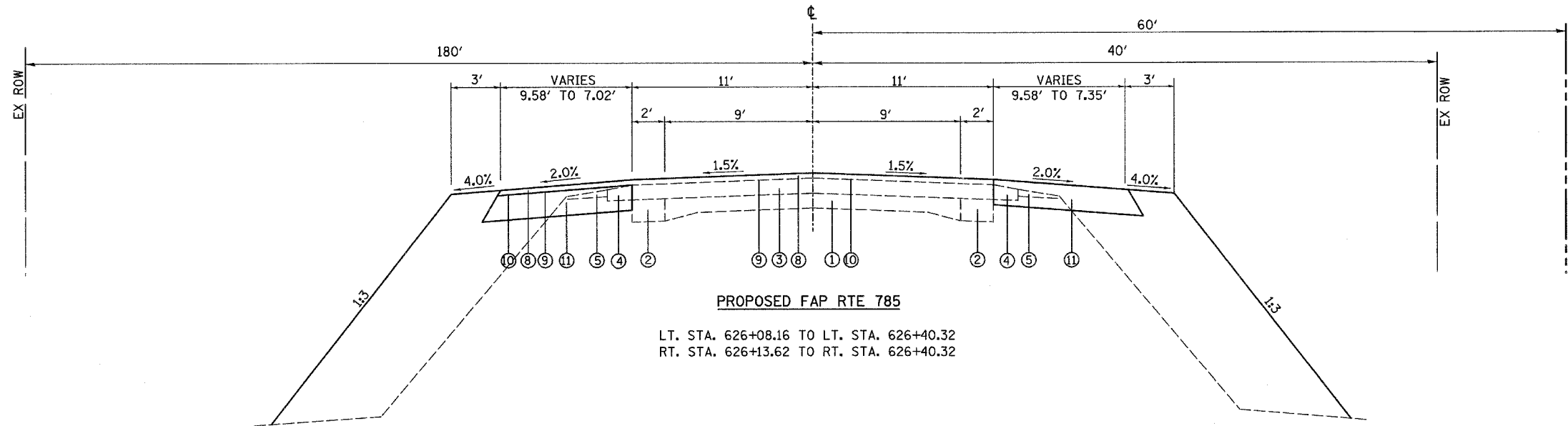
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	134-1BR-2	MADISON	56	7
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

**LEGEND**

- ① EXISTING PCC PAVEMENT (9'-6"-9')
- ② EXISTING PCC WIDENING 8"
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- ⑪ HOT-MIX ASPHALT BASE COURSE 9"
- ⑫ PROPOSED BRIDGE APPROACH PAVEMENT CONNECTOR (PCC), SPECIAL
- ⑬ PROPOSED PCC CURB, SEE TYPE D INLET BOX DETAIL SHEET 47

**MIXTURE REQUIREMENTS SUPERPAVE PROJECT**

20 YR EASL'S:			
MIXTURE USE	SURFACE CSE	BASE COURSE	INCIDENTAL SURFACING
AC/PG	PG 64-22	PG 64-22	PG 64-22
RAP% (MAX)	10%	15%	10%
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70	4.0% @ Ndes=70
MIX COMPOSITION (GRADATION MIXTURE)			
FRICITION AGG	MIXTURE "D"	MIXTURE "B"	MIXTURE "C"



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**TYPICAL SECTIONS**

FAP ROUTE 785  
SECTION 134-1BR-2  
MADISON COUNTY

PLOT DATE = 02/20/2007  
 FILE NAME = I:\A\25588A\Technical\Production\Structure\SEN 655-0248\Microstation\VP1805.dgn  
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	134-1BR-2	MADISON	56	8
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

### EARTHWORK SCHEDULE

STATION	STATION	EARTH EXCAVATION (CU YD)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (NOTE 1) (CU YD)	EMBANKMENT (NOTE 2) (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (NOTE 3) (CU YD)
620+98.00	622+73.00	137	103	669	-566
625+06.00	627+50.00	129	97	404	-307
<b>TOTAL</b>		<b>266</b>	<b>200</b>	<b>1073</b>	<b>-873</b>

**EARTHWORK NOTES:**

- ESTIMATED SHRINKAGE FACTOR = 25%.
- APPROXIMATE EMBANKMENT QUANTITY IS SHOWN FOR INFORMATION ONLY.
- APPROXIMATE EARTHWORK BALANCE IS SHOWN FOR INFORMATION ONLY.

### GUARDRAIL REMOVAL

STATION	STATION	GUARDRAIL REMOV (FOOT)
15.0' RT. STA. 620+90.2	44.0' RT. STA. 621+63.6	93
19.1' RT. STA. 621+83.4	22.0' RT. STA. 622+73.0	89
15.4' LT. STA. 619+11.3	16.1' LT. STA. 619+36.3	25
22.1' LT. STA. 621+83.1	22.0' LT. STA. 622+73.0	89
22.3' LT. STA. 625+06.6	23.0' LT. STA. 626+21.3	115
21.6 RT. STA. 625+06.6	21.0' RT. STA. 625+96.6	90
<b>TOTAL</b>		<b>408</b>

### ENTRANCE SCHEDULE

STATION	ENTRANCE TYPE	ENTRANCE WIDTH "W" (FOOT)	ENTRANCE DEPTH "D" (FOOT)	EXISTING SURFACE TYPE	AGG BASE CSE A 8 (SQ YD)	AGG SURF CSE A 8 (SQ YD)	INCIDENTAL HMA SURF (NOTE 1) (TON)	BIT MATLS PR CT (NOTE 1) (GAL)
LT 621+56.05	FE	20	94.1	AGG	31	185	6	12
RT 621+68.48	FE	20	75.0	AGG	36	140	7	14
<b>TOTAL</b>					<b>67</b>	<b>325</b>	<b>13</b>	<b>26</b>

**ENTRANCE NOTES:**

- INCIDENTAL HOT-MIX ASPHALT SURFACING QUANTITY IS CALCULATED AT A RATE OF 112 LB / SQ YD. BITUMINOUS MATERIALS (PRIME COAT) QUANTITY IS CALCULATED AT A RATE OF 0.375 GAL/SQ. YD.

### REMOVAL SCHEDULE

STATION	STATION	PAVEMENT REMOVAL (SQ YD)	PAVED SHLD REMOVAL (SQ YD)
RT 620+83.48	RT 622+73.05		32
LT 620+60.00	LT 622+73.05		36
RT 625+06.58	RT 627+28.58		37
LT 625+80.00	LT 627+28.06		25
621+74.82	622+00.00		
625+97.00	626+40.32		
622+00.00	622+73.05	179	
LT 625+06.58	LT 625+80.00	179	
LT 621+74.82	LT 622+73.05		89
LT 625+06.58	LT 626+08.20		88
<b>TOTAL</b>		<b>358</b>	<b>307</b>

### ROW MARKERS SCHEDULE

STATION	OFFSET	FUR ERECT ROW MARKERS (EACH)
STA. 619+00	40' RT	1
STA. 620+00	60' RT	1
STA. 627+50	60' RT	1
STA. 628+10.11	40' RT	1
<b>TOTAL</b>		<b>4</b>

- ROW MARKERS ARE TO BE SET 1' INSIDE OF THE ROW AT THE ROW/PROPERTY CORNERS

### PAVEMENT SCHEDULE

STATION	STATION	SUB GRAN MAT A 4 (SQ YD)	BR APP PVT CON PCC SP (SQ YD)	BR APPR PAVT (SQ YD)	PROTECTIVE COAT (SQ YD)	HMA BASE CSE 9 (SQ YD)	BIT MATLS (PR CT) (GAL)	AGG PR CT (TON)	HMA SC "D" N70 (TON)
LT 620+60.00	LT 620+96.00					12			
LT 620+96.00	LT 621+88.40					70			
LT 621+88.40	LT 622+73.06					101			
RT 620+83.48	RT 621+19.48					12			
RT 621+19.48	RT 622+00.00					56			
LT 621+74.82	LT 622+00.00						2	0.1	2
621+74.82	622+00.00						5	0.1	5
622+00.00	622+15.00	60	69		69				
622+15.00	622+45.00	129		139	139				
625+35.00	625+65.00	129		139	139				
625+65.00	625+80.00	60	69		69				
625+80.00	625+97.00						3	0.1	5
625+97.00	626+40.32						8	0.2	9
LT 625+06.18	LT 625+80.00					86			
LT 625+80.00	LT 625+97.68					20	1	0.1	2
LT 625+97.68	LT 626+08.16					12	1	0.1	1
LT 626+08.16	LT 626+40.30					30	3	0.1	2
LT 626+40.30	LT 626+90.56					28			
LT 626+90.56	LT 627+28.06					13			
RT 625+80.00	RT 626+13.62					36			
RT 626+13.62	RT 626+92.58					55			
RT 626+92.58	RT 627+28.58					12			
<b>TOTAL</b>		<b>378</b>	<b>138</b>	<b>278</b>	<b>416</b>	<b>543</b>	<b>23</b>	<b>1</b>	<b>26</b>

### SEEDING SCHEDULE

STATION	STATION	SEEDING (SF)	SEEDING CL 2 (ACRE)	NITROGEN FERT NUTR (POUND)	PHOSPHORUS FERT NUTR (POUND)	POTASSIUM FERT NUTR (POUND)	MULCH METHOD 2 (ACRE)
LT 620+98.00	LT 622+73.00	4888	0.11	10	10	10	0.11
RT 620+98.00	RT 622+73.00	10531	0.24	22	22	22	0.24
LT 625+06.00	LT 627+50.00	4280	0.1	9	9	9	0.10
RT 625+06.00	RT 627+50.00	6603	0.15	14	14	14	0.15
<b>TOTAL</b>			<b>0.60</b>	<b>55</b>	<b>55</b>	<b>55</b>	<b>0.60</b>

### PAVEMENT MARKING SCHEDULE

STATION	STATION	POLYUREA PM T1 LN 4 (FOOT)	SHORT-TERM PAVT MKING (FOOT)	PAVT MARKING REMOVAL (SQ FT)	COMMENTS
LT 620+60.00	LT 627+28.06	668		223	EDGE LINE
CL 619+65.00	CL 621+25.00	40	16	13	CENTER LINE
CL 621+25.00	CL 626+45.00	130	52		CENTER LINE
CL 626+45.00	CL 629+60.00	80	32	26	CENTER LINE
RT 620+83.48	RT 622+00.00	117		39	EDGE LINE
RT 622+00.00	RT 625+80.00	380			EDGE LINE
RT 625+80.00	RT 627+28.58	149		50	EDGE LINE
<b>TOTAL</b>		<b>1563</b>	<b>100</b>	<b>351</b>	

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

### SCHEDULES

FAP ROUTE 785  
SECTION 134-1BR-2  
MADISON COUNTY



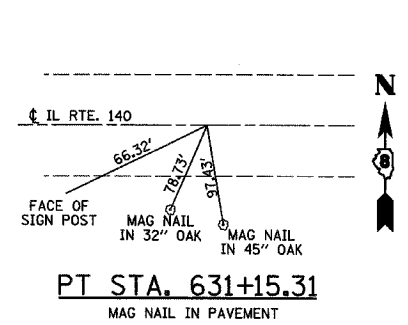
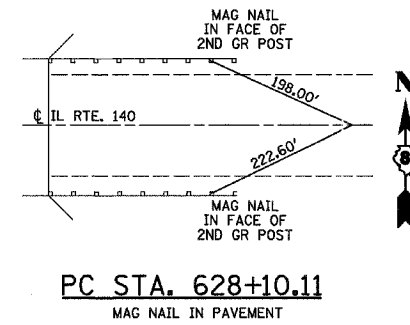
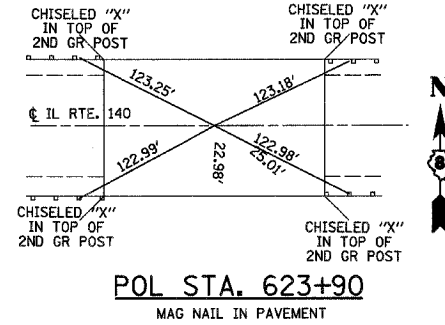
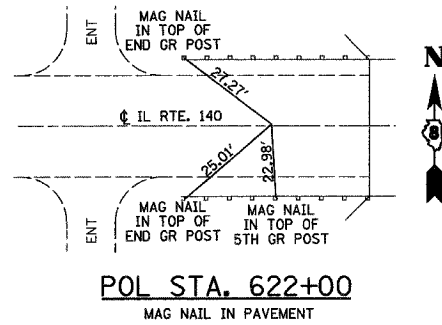
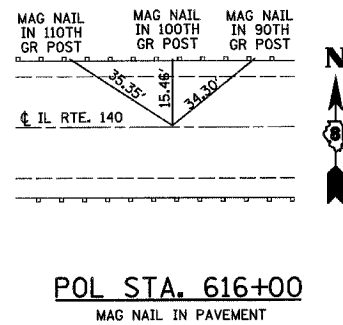
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	134-1BR-2	MADISON	56	9
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

**PROPOSED GUARD RAIL**

LOCATION	SPBGR (SHORT RADIUS) (FOOT)	TRAF BAR TERM T6 (EACH)	SPBGR TY A (FOOT)	TR BAR TRM T1 SPL TAN (EACH)	TERMINAL MARKER - DA (EACH)	GUARDRAIL MKR TYPE A (EACH)
15.0' RT. STA. 620+90.3 TO 16.0' RT. STA. 621+27.68			37.5			1
16.0' RT. STA. 621+27.68 TO 16.3' RT. STA. 621+40.18	12.5					1
16.3' RT. STA. 621+40.18 TO 33.5' RT. STA. 621+56.08	25					
33.5' RT. STA. 621+56.08 TO 46.0' RT. STA. 621+55.93	12.5					
41.5' RT. STA. 621+79.99 TO 28.9' RT. STA. 621+80.03	12.5					1
29.0' RT. STA. 621+80.10 TO 20.58' RT. STA. 621+89.35	13.5					
20.58' RT. STA. 621+89.35 TO 20.58' RT. STA. 622+01.85	12.5					1
20.58' RT. STA. 622+01.85 TO 20.58' RT. STA. 622+45		1				
20.58' RT. STA. 625+35 TO 20.58' RT. STA. 625+78.15		1				1
20.58' RT. STA. 625+78.15 TO 20.58' RT. STA. 626+21.65			43.5			1
20.58' RT. STA. 626+21.65 TO 17.8' RT. STA. 626+65.65			44			1
17.8' RT. STA. 626+65.65 TO 15.2' RT. STA. 627+15.65				1	1	1
15.4' LT. STA. 619+11.27 TO 19.4' LT. STA. 621+17.68			206			3
19.4' LT. STA. 621+17.68 TO 19.5' LT. STA. 621+30.18	12.5					1
19.5' LT. STA. 621+30.18 TO 35.2' LT. STA. 621+46.83	25					
35.2' LT. STA. 621+46.83 TO 47.6' LT. STA. 621+47.83	12.5					
51.2' LT. STA. 621+72.2 TO 38.4' LT. STA. 621+71.8	12.5					
38.4' LT. STA. 621+71.8 TO 20.58' LT. STA. 621+89.35	29					
20.58' LT. STA. 621+89.35 TO 20.58' LT. STA. 622+01.85	12.5					
20.58' LT. STA. 622+01.85 TO 20.58' LT. STA. 622+45		1				1
20.58' LT. STA. 625+35 TO 20.58' LT. STA. 625+78.15		1				1
20.58' LT. STA. 625+78.15 TO 20.58' LT. STA. 626+21.65			43.5			1
20.58' LT. STA. 626+21.65 TO 17.7' LT. STA. 627+40.65			119			1
17.7' LT. STA. 627+40.65 TO 16.8' LT. STA. 627+90.65				1	1	1
<b>TOTALS</b>	<b>193</b>	<b>4</b>	<b>493.5</b>	<b>2</b>	<b>2</b>	<b>17</b>

**TRAFFIC CONTROL ITEMS**

STATION	STATION	TEMP PVT MK LINE 4 (FOOT)	TEMP PVT MK LINE 24 (FOOT)	WORK ZONE: PAVT MK REM (SQ FT)	TEMP CONC BARRIER (FOOT)	REL TEMP CONC BARRIER (FOOT)	IMP ATTN TEMP NRD TL3 (EACH)	IMP ATTN REL NRD TL3 (EACH)	TEMP RUMBLE STRIP (EACH)
<b>STAGE 1</b>									
RT 598+65									1
RT 605+65									1
RT 612+65									1
RT 619+65			11						
RT 619+65	RT 627+70	805		266					
LT 620+60	LT 627+28	668		220					
LT 621+90	LT 622+20						1		
LT 622+20	LT 627+40				520				
LT 627+40	LT 627+70						1		
LT 629+60			11						
LT 636+60									1
LT 643+60									1
LT 650+60									1
<b>STAGE 2</b>									
RT 619+65				22					
LT 619+88	LT 629+60	972		321					
RT 620+83	RT 627+29	646		213					
LT 621+90	LT 622+20							1	
LT 622+20	LT 627+40					520			
LT 627+40	LT 627+70							1	
LT 629+60				22					
<b>SHORT-TERM PAVT MKING</b>									
<b>TOTAL</b>		<b>3091</b>	<b>22</b>	<b>1097</b>	<b>520</b>	<b>520</b>	<b>2</b>	<b>2</b>	<b>6</b>



**SURVEY TIE POINTS**

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION SCHEDULES AND SURVEY TIES FAP ROUTE 785 SECTION 134-1BR-2 MADISON COUNTY
NAME	DATE	

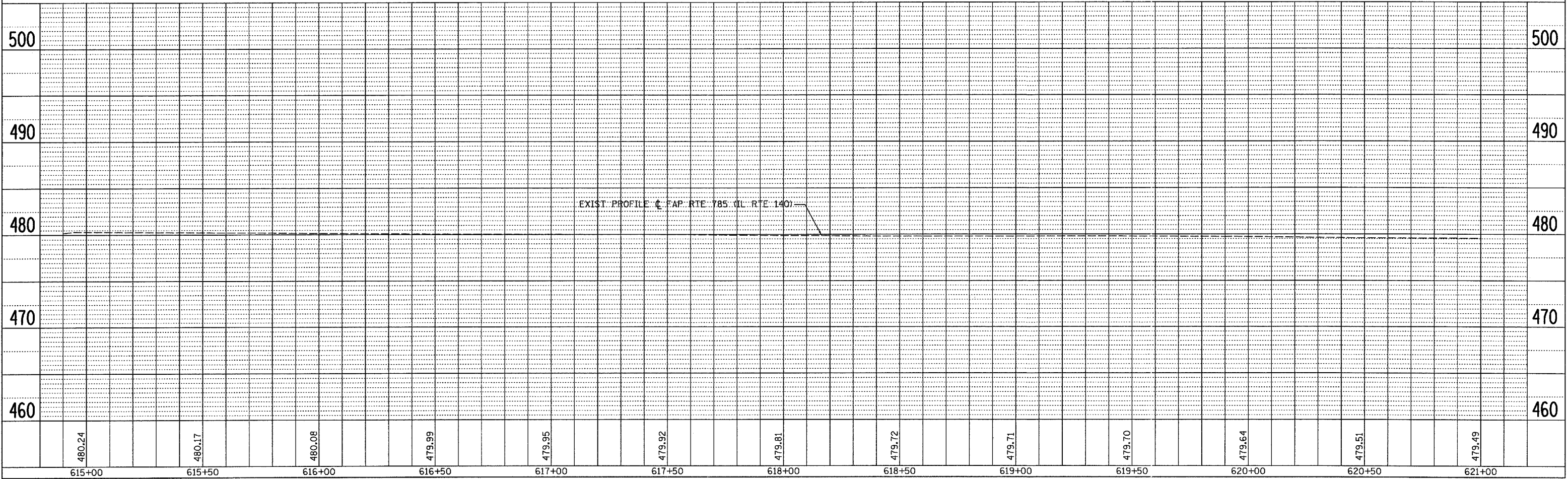
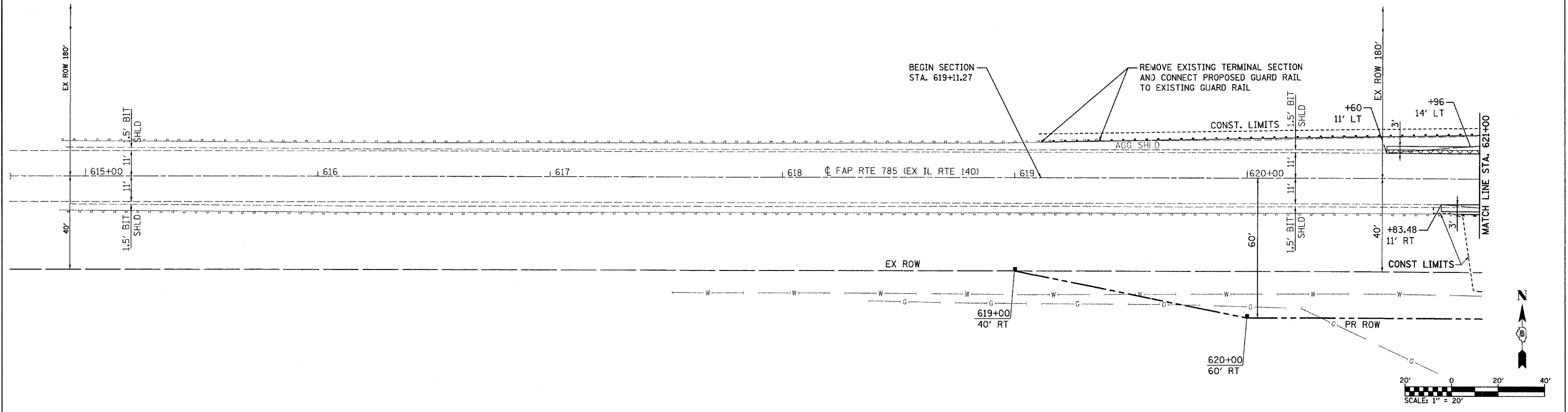
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785	134-1BR-2	MADISON	56	10
STA. 615+00		TO STA. 621+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN	SURVEYED	DATE
NO.	BY	
NOTE BOOK	BY	
RT. OF WAY CHECKED	BY	
PROP. FILE NAME	BY	

PROFILE	SURVEYED	DATE
NO.	BY	
NOTE BOOK	BY	
RT. OF WAY CHECKED	BY	
PROP. FILE NAME	BY	

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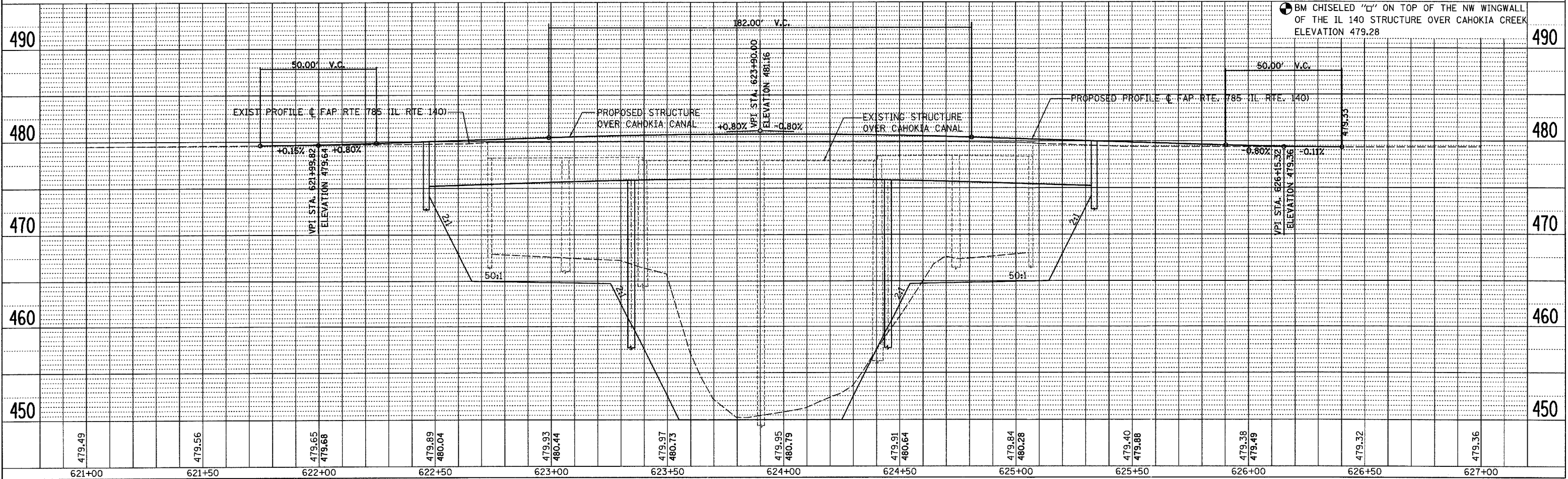
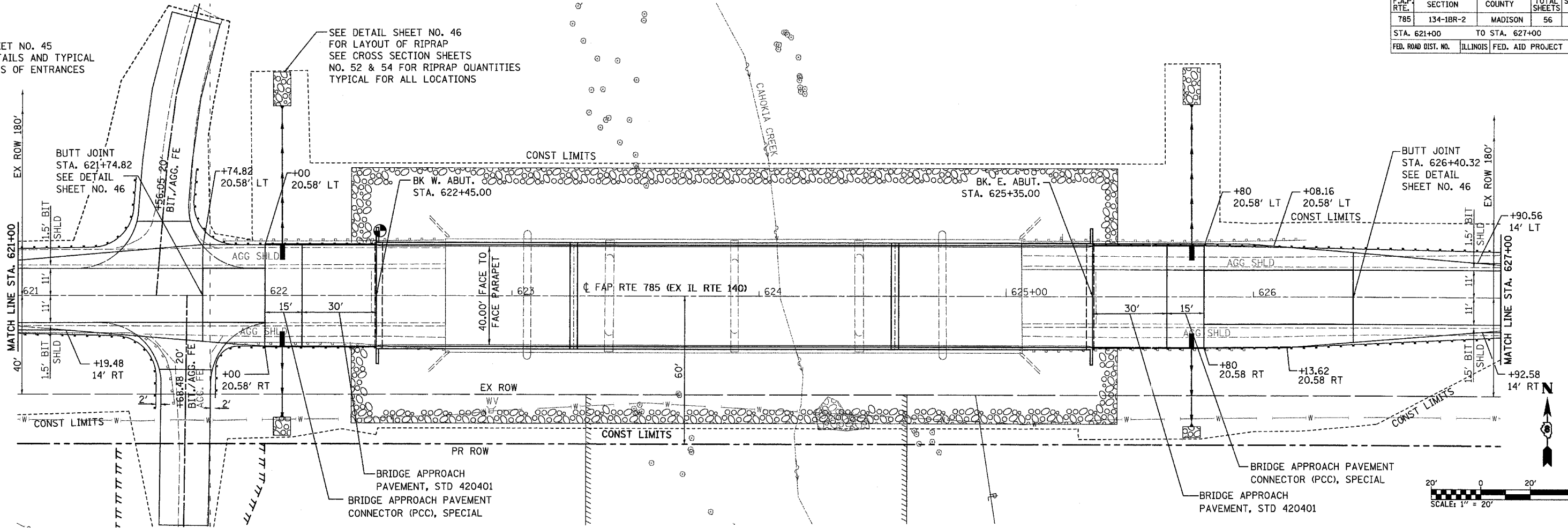
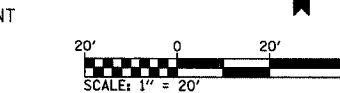
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785	134-1BR-2	MADISON	56	11
STA. 621+00		TO STA. 627+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SEE SHEET NO. 45  
FOR DETAILS AND TYPICAL  
SECTIONS OF ENTRANCES

SEE DETAIL SHEET NO. 46  
FOR LAYOUT OF RIPRAP  
SEE CROSS SECTION SHEETS  
NO. 52 & 54 FOR RIPRAP QUANTITIES  
TYPICAL FOR ALL LOCATIONS

BUTT JOINT  
STA. 626+40.32  
SEE DETAIL  
SHEET NO. 46

BUTT JOINT  
STA. 621+74.82  
SEE DETAIL  
SHEET NO. 46



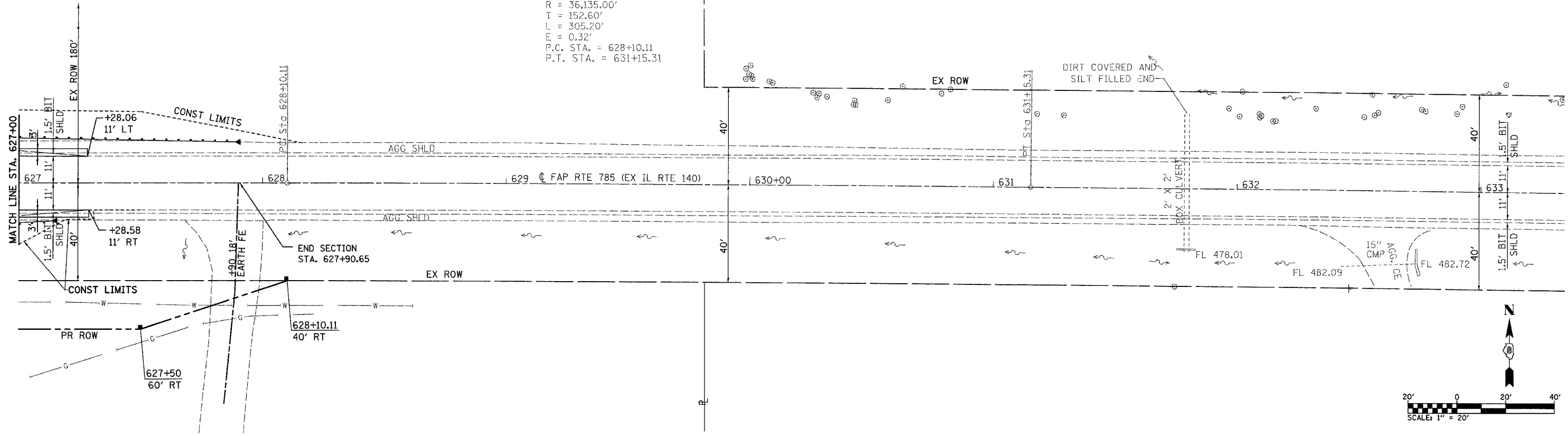
DATE	BY	REVISION

DATE	BY	REVISION

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STA. 627+00		TO STA. 633+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

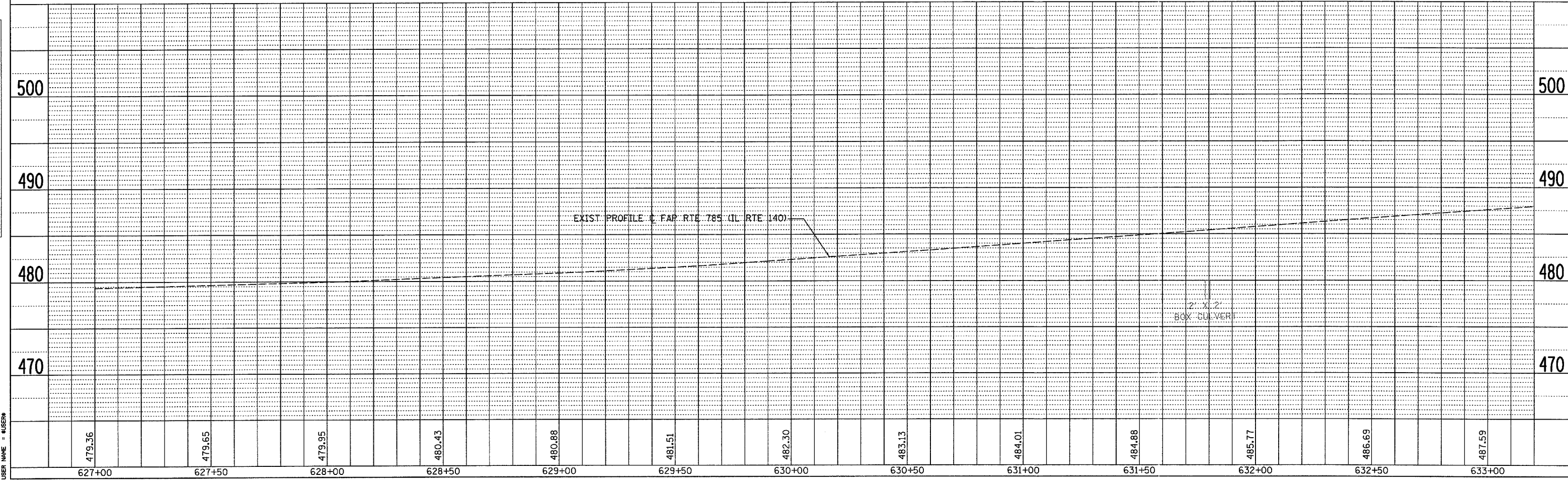
EXIST. CURVE C1  
 PI STA. = 629+62.71  
 $\Delta = 0^\circ 29' 02''$  (RT)  
 $D = 0^\circ 09' 31''$   
 $R = 36,135.00'$   
 $T = 152.60'$   
 $L = 305.20'$   
 $E = 0.32'$   
 P.C. STA. = 628+10.11  
 P.T. STA. = 631+15.31



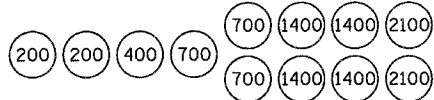
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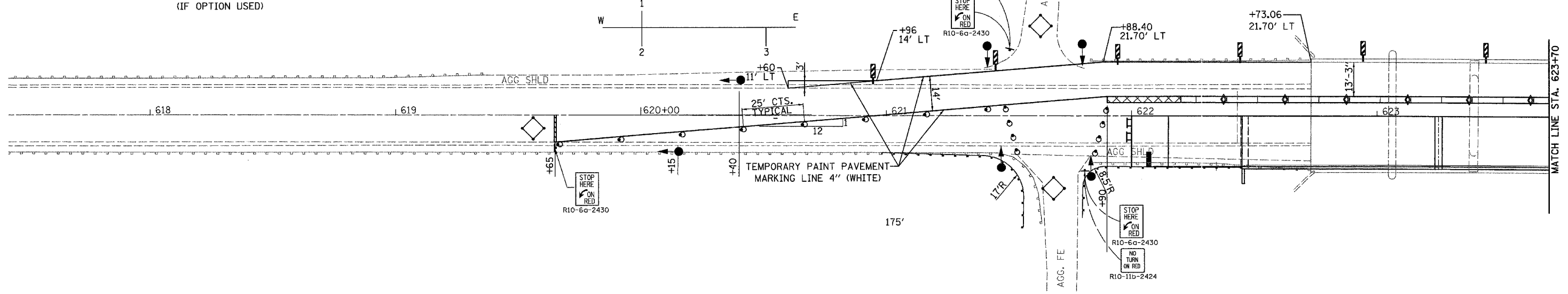


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA. 617+50		TO STA. 630+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

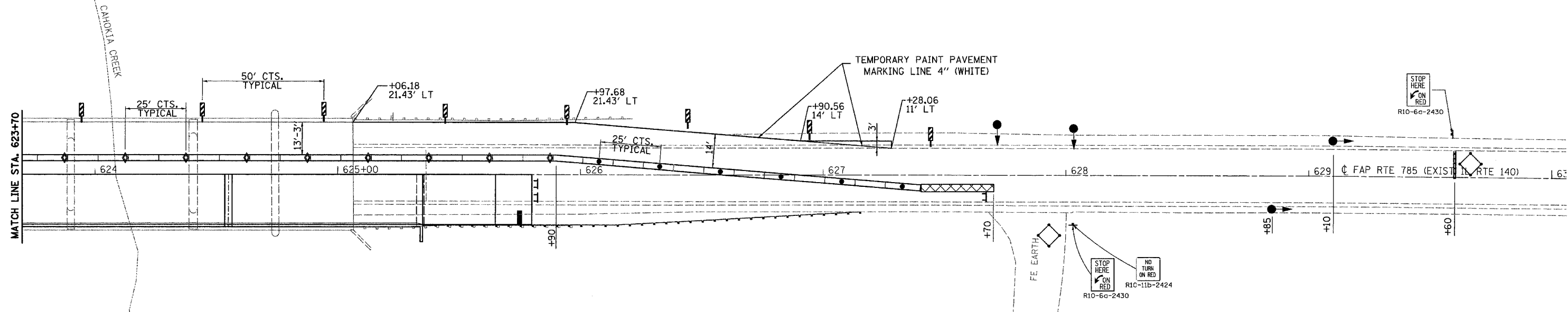


SAND MODULE IMPACT ATTENUATOR LAYOUT (IF OPTION USED)

SEQUENCE OF OPERATIONS												
PHASE	A			B			C			D		
INTERVAL	1	2	3	4	5	6	7	8	9	10	11	12
EB	G	Y	R	R	R	R	R	R	R	R	R	R
WB	R	R	R	G	Y	R	R	R	R	R	R	R
ENT. 1&2	R	R	R	R	R	R	R	R	R	G	Y	R
ENT. 3	R	R	R	R	R	R	G	Y	R	R	R	R



DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 RT. OF WAY CHECKED: \_\_\_\_\_  
 NO. \_\_\_\_\_  
 PLOTTED FILE NAME: \_\_\_\_\_



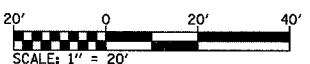
**STAGE I  
SEQUENCE OF OPERATIONS**

- PRIOR TO INSTALLING TEMPORARY TRAFFIC CONTROL DEVICES FOR STAGING OPERATIONS, CONSTRUCT BITUMINOUS BASE COURSE USING TRAFFIC CONTROL AND PROTECTION 701006, 701301, 701306 AND 701326.
- INSTALL TEMPORARY TRAFFIC SIGNALS, ATTENUATOR BASES, ATTENUATORS, TEMPORARY CONCRETE BARRIERS AND DRUMS USING TRAFFIC CONTROL AND PROTECTION STANDARDS 701006, 701201, AND 701301, AND ALL OTHER ITEMS AS PER THESE DETAILS AND AS PER LANE CLOSURE 2L, 2W, BRIDGE REPAIR WITH BARRIER STANDARD 701321. BEGIN OPERATING UNDER STAGE I TRAFFIC CONDITIONS WITH THE AID OF TRAFFIC CONTROL AND PROTECTION STANDARD 701201 AND 701006.
- DRIVE TEMPORARY SHEET PILING, REMOVE EXISTING PAVEMENT, GUARDRAIL AND TRAFFIC BARRIER TERMINALS, EXCAVATE AND REMOVE A PORTION OF THE EXISTING STRUCTURE.
- CONSTRUCT THE NEW PORTION OF THE PROPOSED STRUCTURE, BACKFILL, COMPACT, CONSTRUCT PAVEMENT, BRIDGE APPROACH PAVEMENT, BRIDGE APPROACH PAVEMENT CONNECTOR, INLETS, STEEL PLATE BEAM GUARDRAIL, TRAFFIC BARRIER TERMINALS AND GRADING.

**LEGEND**

- TRAFFIC SIGNALS
- DRUM WITH STEADY BURNING LIGHT
- STOP LINE 24"
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
- DOUBLE VERTICAL PANEL
- TYPE C BIDIRECTIONAL REFLECTOR
- TYPE III BARRICADE WITH FLASHING LIGHTS
- TEMPORARY CONCRETE BARRIER
- STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS

- NOTES:
- FOR ADDITIONAL SIGNING, SEE THE WIDE LOAD SIGNING PLAN SHEET.
  - THE COST OF THE ADDITIONAL R10 SIGNS AND ADDITIONAL TYPE III BARRICADES SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, STANDARD 701321.
  - THE BOTTOM 6" OF THE TEMPORARY CONCRETE BARRIER SHALL BE PAINTED WITH TEMPORARY PAVEMENT MARKING "WHITE". THE COST FOR THIS WORK SHALL BE INCLUDED IN THE COST OF THE TEMPORARY CONCRETE BARRIER.
  - FOR DETAIL OF DETECTOR LOOP INSTALLATION AT FIELD ENTRANCES SEE DETAIL SHEET NO. 46



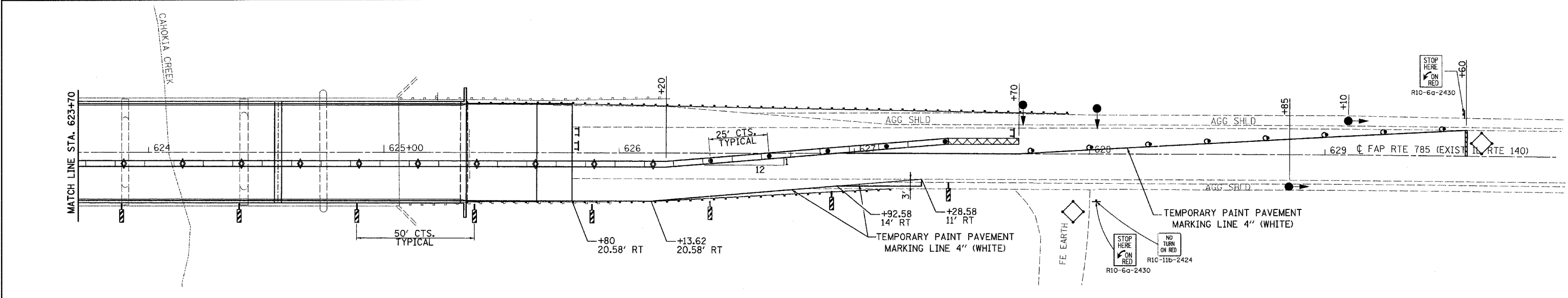
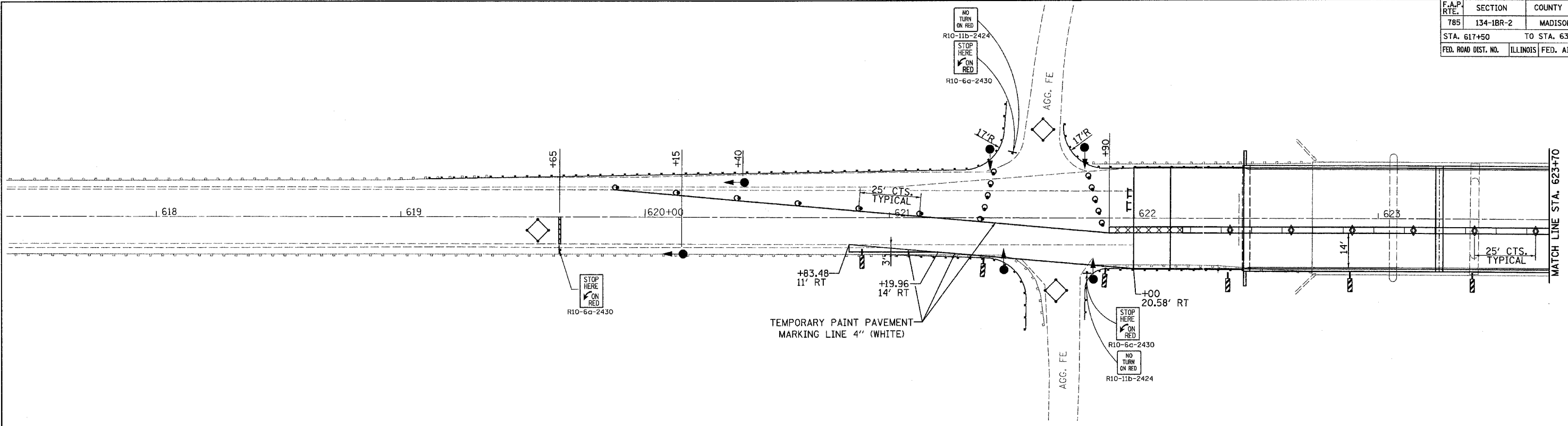
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL STAGE I**  
 FAP ROUTE 785  
 SECTION 134-1BR-2  
 MADISON COUNTY

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	134-1BR-2	MADISON	56	14
STA. 617+50		TO STA. 630+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DATE	
BY	
CHECKED	
APPROVED	
PLANNED	
NOTE BOOK NO.	
DATE OF WAY CHECKED	
PAID FILE NAME	



STAGE II SEQUENCE OF OPERATIONS

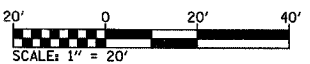
1. PRIOR TO INSTALLING TEMPORARY TRAFFIC CONTROL DEVICES FOR STAGING OPERATIONS, CONSTRUCT BITUMINOUS BASE COURSE USING TRAFFIC CONTROL AND PROTECTION 701006, 701301, 701306 AND 701326.
2. INSTALL TEMPORARY TRAFFIC SIGNALS, ATTENUATOR BASES, ATTENUATORS, TEMPORARY CONCRETE BARRIERS AND DRUMS USING TRAFFIC CONTROL AND PROTECTION STANDARDS 701201 AND 701006 AND ALL OTHER ITEMS AS PER THESE DETAILS AND AS PER LANE CLOSURE 2L, 2W, BRIDGE REPAIR WITH BARRIER STANDARD 701321. BEGIN OPERATING UNDER STAGE II TRAFFIC CONDITIONS WITH THE AID OF TRAFFIC CONTROL AND PROTECTION STANDARD 701006, 701201 AND 701301.
3. DRIVE TEMPORARY SHEET PILING, REMOVE EXISTING PAVEMENT, GUARDRAIL AND TRAFFIC BARRIER TERMINALS, EXCAVATE AND REMOVE THE REMAINING PORTION OF THE EXISTING STRUCTURE.
4. CONSTRUCT THE REMAINING PORTION OF THE PROPOSED STRUCTURE, BACKFILL, COMPACT, CONSTRUCT PAVEMENT, BRIDGE APPROACH PAVEMENT, BRIDGE APPROACH PAVEMENT CONNECTOR, INLETS, STEEL PLATE BEAM GUARDRAIL, TRAFFIC BARRIER TERMINALS AND GRADING.

LEGEND

- TRAFFIC SIGNALS
- DRUM WITH STEADY BURNING LIGHT
- STOP LINE 24"
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
- DOUBLE VERTICAL PANEL
- TYPE C BIDIRECTIONAL REFLECTOR
- TYPE III BARRICADE WITH FLASHING LIGHTS
- TEMPORARY CONCRETE BARRIER
- STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS

NOTE:

1. THE COST OF THE ADDITIONAL R10 SIGNS AND THE ADDITIONAL TYPE III BARRICADES SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, STANDARD 701321
2. THE BOTTOM 6" OF THE TEMPORARY CONCRETE BARRIER SHALL BE PAINTED WITH TEMPORARY PAVEMENT MARKING "WHITE". THE COST FOR THIS WORK SHALL BE INCLUDED IN THE COST OF THE TEMPORARY CONCRETE BARRIER.
3. FOR DETAIL OF DETECTOR LOOP INSTALLATION AT FIELD ENTRANCES SEE DETAIL SHEET NO. 46



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL STAGE II**  
 FAP ROUTE 785  
 SECTION 134-1BR-2  
 MADISON COUNTY

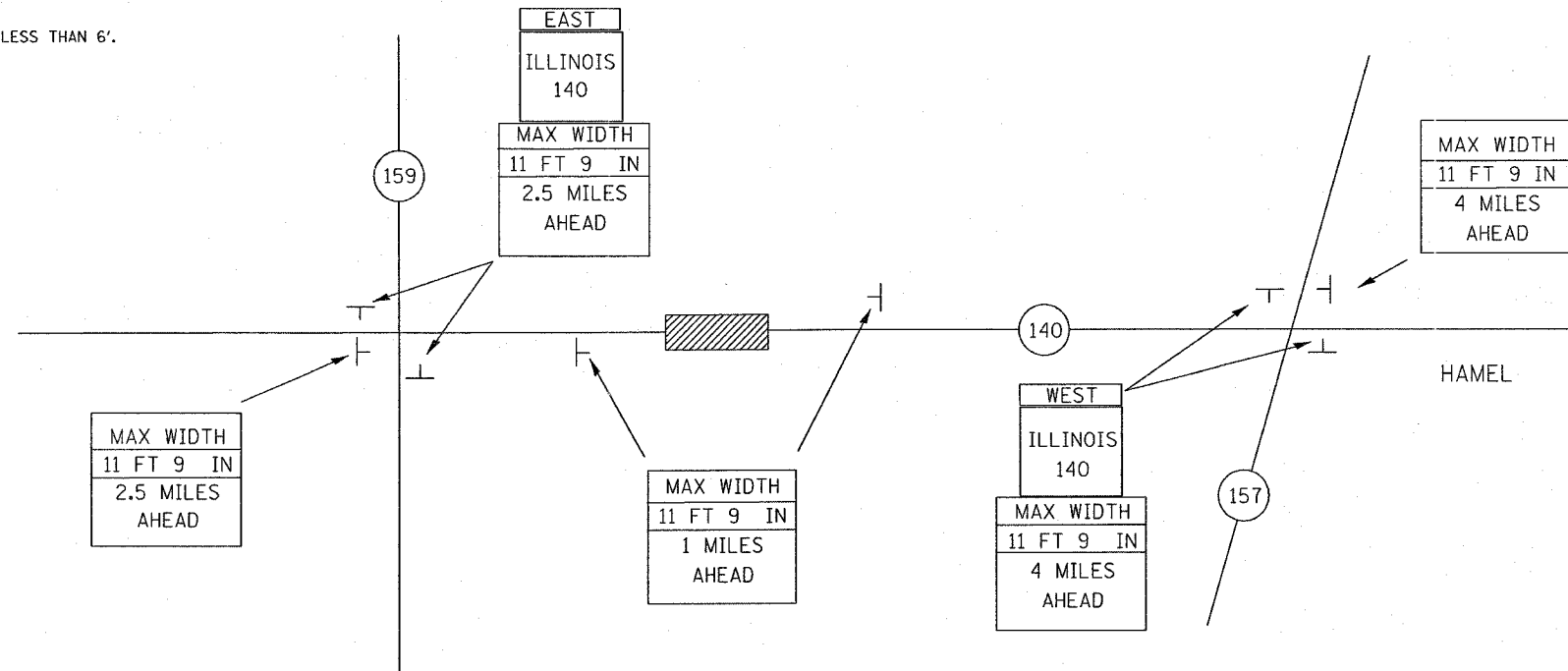
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	134-1BR-2	MADISON	56	15
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

WIDE LOAD SIGNING  
IL 140 OVER CAHOKIA CREEK  
S.N. 060-0097

NOTES

1. ALL SIGNS REQUIRED WILL BE SUPPLIED TO THE CONTRACTOR BY I.D.O.T.
2. THE CONTRACTOR SHALL FURNISH THE POSTS AND ERECT SIGNS AT THE LOCATIONS SHOWN ON THIS SHEET, AS DIRECTED BY THE R.E./R.T. THE POSTS SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
3. THE CONTRACTOR SHALL GIVE ILLINOIS DEPARTMENT OF TRANSPORTATION, BUREAU OF OPERATIONS TWO WEEKS NOTICE FOR THE SIGNS. THE CONTRACTOR SHALL PICK UP THE SIGNS AT THE T.M. BUILDING IN FAIRVIEW HGTS., AND RETURN THEM UPON COMPLETION OF THE CONTRACT. CONTACT JEAN SLADE @ (618) 346-3289
4. THE ABOVE NOTED WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE, LUMP SUM, FOR WIDE LOADING SIGNING AND NO OTHER COMPENSATION WILL BE ALLOWED.
5. SIGN SPACING WILL BE 400' OR TO FIT FIELD CONDITIONS.
6. THE HEIGHT TO THE BOTTOM OF THE LOWEST SIGN SHALL NOT BE LESS THAN 6'.



SIGNS REQUIRED	
MAX WIDTH 11 FT 9 IN 1 MILES AHEAD	(2) EAST (2)
MAX WIDTH 11 FT 9 IN 2.5 MILES AHEAD	(3) WEST (2)
MAX WIDTH 11 FT 9 IN 4 MILES AHEAD	(3) ILLINOIS (4) 140

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
FAP 785 (IL. ROUTE 140)  
SECTION 134-1BR-2  
MADISON COUNTY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	134-1BR-2	MADISON	56	16
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

**STORM WATER POLLUTION PREVENTION PLAN**

THE FOLLOWING PLAN IS ESTABLISHED AND INCORPORATED IN THE PROJECT TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM SEWER WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES.

THE PURPOSE OF THIS PLAN IS TO MINIMIZE EROSION WITHIN THE CONSTRUCTION SITE AND TO LIMIT SEDIMENTS FROM LEAVING THE CONSTRUCTION SITE BY UTILIZING PROPER TEMPORARY EROSION CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE AMOUNT OF TIME.

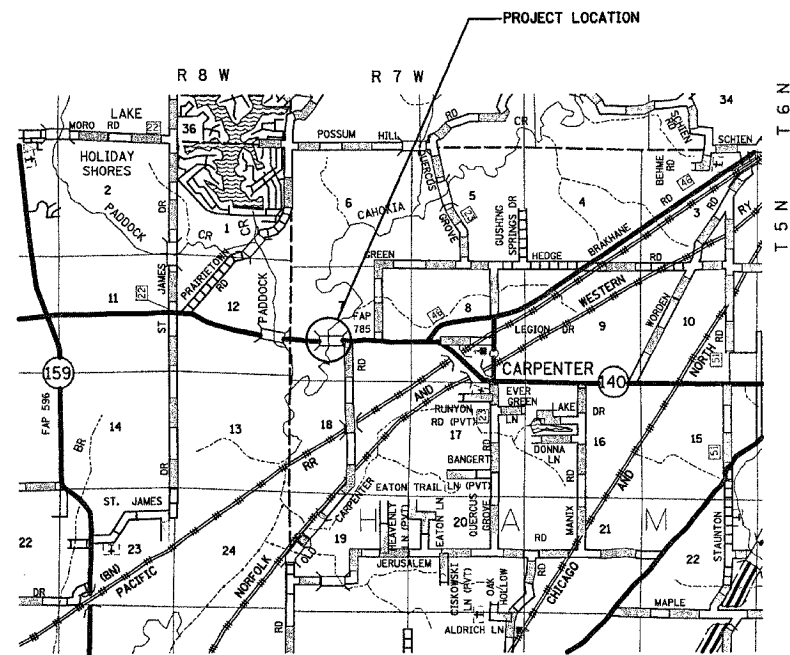
CERTAIN EROSION CONTROL FACILITIES SHALL BE INSTALLED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION OTHER ITEMS SHALL BE INSTALLED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER ON A CASE BY CASE SITUATION DEPENDING ON THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND EXPECTED WEATHER CONDITIONS.

THE CONTRACTOR SHALL INSTALL PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A TIME FRAME SPECIFIED HEREIN AND AS DIRECTED BY THE ENGINEER, THEREFORE MINIMIZING THE AMOUNT OF AREA SUSCEPTIBLE TO EROSION AND REDUCING THE AMOUNT OF TEMPORARY SEEDING. THE ENGINEER WILL DETERMINE IF ANY TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS, WHICH ARE NOT INCLUDED IN THIS PLAN, SHALL BE ADDED. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN STANDARD 280001 AND THESE PLANS.

SITE DESCRIPTION

DESCRIPTION OF CONSTRUCTION ACTIVITY:

1. THE PROJECT CONSISTS OF THE REMOVAL AND REPLACEMENT OF THE IL ROUTE 140 STRUCTURE OVER CAHOKIA CREEK ALONG WITH APPURTENANT IMPROVEMENTS.
2. PLACEMENT, MAINTENANCE, REMOVAL AND PROPER CLEAN-UP OF TEMPORARY EROSION CONTROL SUCH AS EROSION CONTROL FENCE, TEMPORARY SEEDING, ETC.
3. PLACEMENT OF PERMANENT EROSION CONTROL, SUCH AS RIPRAP, EROSION CONTROL BLANKET, SEEDING, ETC.



LOCATION MAP

AREA OF CONSTRUCTION:

THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE 1.4 ACRES OF WHICH 1.4 ACRES WILL BE DISTURBED BY EXCAVATION, GRADING, AND OTHER ACTIVITIES.

OTHER REPORTS, STUDIES AND PLANS WHICH AID IN THE DEVELOPMENT OF THE STORM WATER POLLUTION PREVENTION PLAN AS REFERENCED DOCUMENTS:

1. INFORMATION OF THE SOILS AND TERRAIN WITHIN THE SITE WAS OBTAINED FROM TOPOGRAPHIC SURVEYS AND SOIL BORINGS THAT WERE UTILIZED FOR THE DEVELOPMENT OF THE PROPOSED TEMPORARY EROSION CONTROL SYSTEMS.
2. PROJECT PLAN DOCUMENTS, STANDARD SPECIFICATIONS, AND PLAN DRAWINGS INDICATING DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED AFTER GRADING ACTIVITIES WERE UTILIZED FOR THE PROPOSED PLACEMENT OF THE TEMPORARY EROSION CONTROL SYSTEMS.

DRAINAGE TRIBUTARIES AND SENSITIVE AREAS RECEIVING RUNOFF FROM THIS CONSTRUCTION SITE:

1. CAHOKIA CREEK

EROSION CONTROLS AND SEDIMENT CONTROL

DESCRIPTION OF STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION

1. THE DRAWINGS, SPECIFICATIONS AND SPECIAL PROVISIONS WILL ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE ATTAINABLE AND DISTURBED PORTIONS OF THE SITE WILL BE STABILIZED. STABILIZATION PRACTICES INCLUDE: TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, PROTECTION OF TREES, PRESERVATION OF MATURE VEGETATION, AND OTHER APPROPRIATE MEASURES AS DIRECTED BY THE ENGINEER. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SUCH MEASURES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
  - (a.) AREAS OF EXISTING VEGETATION (WOOD AND GRASSLANDS) OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE IDENTIFIED BY THE ENGINEER FOR PRESERVING AND SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES.
  - (b.) DEAD, DISEASED, OR UNSUITABLE VEGETATION WITHIN THE SITE SHALL BE REMOVED AS DIRECTED BY THE ENGINEER, ALONG WITH ANY REQUIRED TREE REMOVAL.
  - (c.) AS SOON AS REASONABLE ACCESS IS AVAILABLE TO ALL LOCATIONS WHERE WATER DRAINS AWAY FROM THE PROJECT, TEMPORARY DITCH CHECKS, INLET AND PIPE PROTECTION, AND PERIMETER EROSION BARRIER SHALL BE INSTALLED AS CALLED OUT IN THIS PLAN AND AS DIRECTED BY THE ENGINEER.
  - (d.) BARE AND SPARSELY VEGETATED GROUND IN HIGH ERODABLE AREAS AS DETERMINED BY THE ENGINEER SHALL BE TEMPORARILY SEEDED AT THE BEGINNING OF CONSTRUCTION WHERE NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN SEVEN DAYS.
  - (e.) AT LOCATIONS WHERE A SIGNIFICANT AMOUNT OF WATER DRAINS INTO THE CONSTRUCTION ZONE FROM OUTSIDE AREAS (ADJACENT LANDOWNERS), TEMPORARY DITCH CHECKS WILL BE UTILIZED TO LOCALLY DIVERT WATER, REDUCE FLOW RATES, AND COLLECT OUTSIDE SILTATION INSIDE THE RIGHT-OF-WAY LINE.
2. ESTABLISHMENT OF THESE TEMPORARY EROSION CONTROL MEASURES WILL HAVE ADDITIONAL BENEFITS TO THE PROJECT. DESIRABLE GRASS SEED WILL BECOME ESTABLISHED IN THESE AREAS AND WILL SPREAD SEEDS ONTO THE CONSTRUCTION SITE UNTIL PERMANENT SEEDING/MOWING AND OVERSEEDING CAN BE COMPLETED.

THIS PLAN HAS BEEN PREPARED TO COMPLY WITH THE PROVISIONS OF THE NPDES PERMIT NUMBER ILR10, ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES.

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

*Mary C. Lanni*  
 REGIONAL ENGINEER      3-22-07  
 DATE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**STORM WATER POLLUTION PREVENTION PLAN**

FAP ROUTE 785  
 SECTION 134-1BR-2  
 MADISON COUNTY

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	134-1BR-2	MADISON	56	17
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

**DESCRIPTION OF STABILIZATION PRACTICES DURING CONSTRUCTION:**

1. DURING CONSTRUCTION, AREAS OUTSIDE THE CONSTRUCTION LIMITS AS OUTLINED PREVIOUSLY SHALL BE PROTECTED. THE CONTRACTOR SHALL NOT USE THIS AREA FOR STAGING (EXCEPT AS DESCRIBED ON THE PLANS AND DIRECTED BY THE ENGINEER), PARKING OF VEHICLES OR CONSTRUCTION EQUIPMENT, STORAGE OF MATERIALS, OR OTHER CONSTRUCTION RELATED ACTIVITIES.
  - (a.) WITHIN THE CONSTRUCTION LIMITS, AREAS WHICH MAY BE SUSCEPTIBLE TO EROSION AS DETERMINED BY THE ENGINEER SHALL REMAIN UNDISTURBED UNTIL CONSTRUCTION IS UNDERWAY TO PREVENT UNNECESSARY SOIL EROSION.
  - (b.) EARTH STOCKPILES SHALL BE TEMPORARILY SEEDED IF THEY ARE TO REMAIN UNUSED FOR MORE THAN FOURTEEN DAYS.
  - (c.) AS CONSTRUCTION PROCEEDS, THE CONTRACTOR SHALL INSTITUTE THE FOLLOWING AS DIRECTED BY THE ENGINEER:
    - I. PLACE TEMPORARY EROSION CONTROL FACILITIES AT LOCATIONS SHOWN ON THE PLANS.
    - II. TEMPORARILY SEED ERODABLE BARE EARTH ON A WEEKLY BASIS TO MINIMIZE THE AMOUNT OF ERODABLE SURFACE WITHIN THE CONTRACT LIMITS.
    - III. CONSTRUCT ROADSIDE DITCHES AND PROVIDE TEMPORARY EROSION CONTROL SYSTEMS.
    - IV. CONTINUE BUILDING UP THE EMBANKMENT TO THE PROPOSED GRADE WHILE AT THE SAME TIME, PLACING PERMANENT CONTROL SUCH AS RIPRAP DITCH LINING AND CONDUCTING FINAL SHAPING TO THE SLOPES.
  - (d.) EXCAVATED AREAS AND EMBANKMENT SHALL BE PERMANENTLY SEEDED IMMEDIATELY AFTER FINAL GRADING. IF NOT, THEY SHALL BE TEMPORARILY SEEDED IF NO CONSTRUCTION ACTIVITY IN THE AREA IS PLANNED FOR 7 DAYS.
  - (e.) CONSTRUCTION EQUIPMENT SHALL BE STORED AND FUELED ONLY AT DESIGNATED LOCATIONS. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OF OTHER POLLUTANT IN ACCORDANCE WITH EPA WATER QUALITY REGULATIONS. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
  - (f.) THE RESIDENT ENGINEER SHALL INSPECT THE PROJECT DAILY DURING CONSTRUCTION ACTIVITIES. INSPECTION SHALL ALSO BE DONE WEEKLY AND AFTER RAINS OF 1/2 INCH OR GREATER OR EQUIVALENT SNOWFALL AND DURING THE WINTER SHUTDOWN PERIOD. THE PROJECT SHALL ADDITIONALLY BE INSPECTED BY THE CONSTRUCTION FIELD ENGINEER ON A BIWEEKLY BASIS TO DETERMINE THAT EROSION CONTROL EFFORTS ARE IN PLACE AND EFFECTIVE AND IF OTHER EROSION CONTROL WORK IS NECESSARY.
  - (g.) SEDIMENT COLLECTED DURING CONSTRUCTION OF THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS AS DIRECTED BY THE ENGINEER. MAINTENANCE OF TEMPORARY EROSION CONTROL SYSTEMS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
  - (h.) THE TEMPORARY EROSION CONTROL SYSTEMS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER AFTER USE IS NO LONGER NEEDED OR NO LONGER FUNCTIONING. THE COST OF THIS REMOVAL SHALL BE INCLUDED IN THE UNIT BID PRICE FOR TEMPORARY EROSION CONTROL SYSTEM.

**DESCRIPTION OF STRUCTURAL PRACTICES AFTER FINAL GRADING:**

1. TEMPORARY EROSION CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PROPOSED TURF AREAS SEEDED AND ESTABLISHED.
2. ONCE PERMANENT EROSION CONTROL SYSTEMS AS PROPOSED IN THE PLANS ARE FUNCTIONAL AND ESTABLISHED, TEMPORARY ITEMS SHALL BE REMOVED, CLEANED UP, AND DISTURBED TURF RESEEDED.




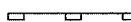

**MAINTENANCE AFTER CONSTRUCTION:**

1. CONSTRUCTION IS COMPLETE AFTER ACCEPTANCE BY I. D. O. T. FINAL INSPECTION. MAINTENANCE UP TO THIS DATE WILL BE BY THE CONTRACTOR.

**MISCELLANEOUS:**

1. TEMPORARY DITCH CHECKS SHALL BE LOCATED AT 1.5 FT. FALL/RISE IN DITCH GRADE.
2. TEMPORARY DITCH CHECKS, AGGREGATE USING GRADATION NO. 3 - REMOVE AT END OF CONSTRUCTION
3. ALL AREAS DISTURBED FOR ANY REASON SHALL BE SEEDED WITH CLASS 2 SEEDING, MULCH, AND THE NECESSARY NUTRIENTS AS DIRECTED BY THE ENGINEER. SEEDING AND NUTRIENTS SHALL CONFORM TO SECTION 250 AND MULCH SHALL CONFORM TO SECTION 251 USING METHODS 2. THIS WORK WILL BE PAID FOR AS SEEDING, CLASS 2; MULCH METHOD 2; & NUTRIENTS OF THE TYPE SPECIFIED IN THE PLANS.
4. TEMPORARY SEEDING AND TEMPORARY MULCH SHALL BE COMPLETED ON A WEEKLY BASIS ON EXPOSED GROUND AND SHALL BE IN ACCORDANCE WITH SECTION 280 OF THE STANDARD SPECIFICATIONS. TEMPORARY EROSION CONTROL SEEDING SHALL BE APPLIED AT A RATE OF 100 LBS/ACRES. THIS WORK WILL BE PAID FOR AS TEMPORARY EROSION CONTROL SEEDING. TEMPORARY EROSION CONTROL MULCH SHALL BE IN ACCORDANCE WITH SECTION 280 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE INCLUDED IN THE COST OF TEMPORARY EROSION CONTROL SEEDING.
5. STRAW BALES, HAY BALES, PERIMETER EROSION BARRIER, AND SILT FENCES WILL NOT BE PERMITTED FOR TEMPORARY OR PERMANENT DITCH CHECKS. DITCH CHECKS SHALL BE CHOSEN FROM THE DEPARTMENT'S APPROVED LIST. THE ONLY PRODUCTS APPROVED ARE ENVIROBERM, TRIANGULAR SILT DIKE, GEORIDGE, AND ROLLED EXCELSIOR. ROLLED EXCELSIOR MUST COMPLY WITH THE SPECIFICATIONS OUTLINED IN THE IDOT BUREAU OF DESIGN AND ENVIRONMENT MANUAL (BDE). AGGREGATE DITCH CHECKS CAN BE USED WHERE SPECIFIED.
6. CONSTRUCT PERIMETER EROSION CONTROL AT BEGINNING OF CONSTRUCTION. REMOVE AT END OF CONSTRUCTION.
7. ALL EROSION CONTROL PRODUCTS FURNISHED SHALL BE SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR THE USE SPECIFIED IN THE EROSION CONTROL PLANS. PRIOR TO THE APPROVAL AND USE OF THE PRODUCT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A NOTARIZED CERTIFICATION BY THE PRODUCER STATING THE INTENDED USE OF THE PRODUCT AND THAT THE PHYSICAL PROPERTIES REQUIRED FOR THIS APPLICATION ARE MET OR EXCEEDED. THE CONTRACTOR SHALL PROVIDE MANUFACTURER INSTALLATION PROCEDURES TO FACILITATE THE ENGINEER IN CONSTRUCTION INSPECTION.

**LEGEND**

-  TEMPORARY DITCH CHECK- ROLLED EXCELSIOR, SILT WEDGES/PANELS
-  TEMPORARY DITCH CHECK- AGGREGATE
-  EROSION CONTROL BLANKET
-  PERIMETER EROSION BARRIER- SILT FILTER FENCE OR OTHER AS APPROVED BY THE ENGINEER
-  INLET AND PIPE PROTECTION- STRAW BALES, FILTER FABRIC, AGGREGATES

NOTE: ALL ITEMS SHALL BE CONSTRUCTED AS SHOWN ON STANDARD 280001 AND AS DIRECTED BY THE ENGINEER. MAINTENANCE AND CLEANING OF THE EROSION CONTROL ITEMS SHALL BE INCLUDED IN THE RESPECTIVE EROSION CONTROL PAY ITEM.

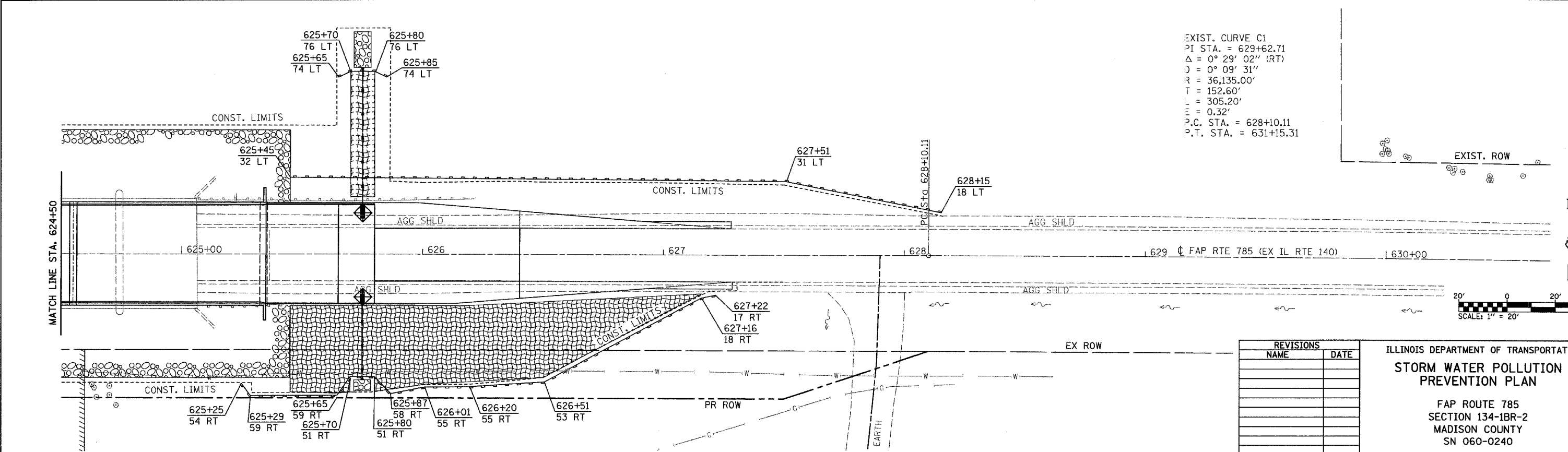
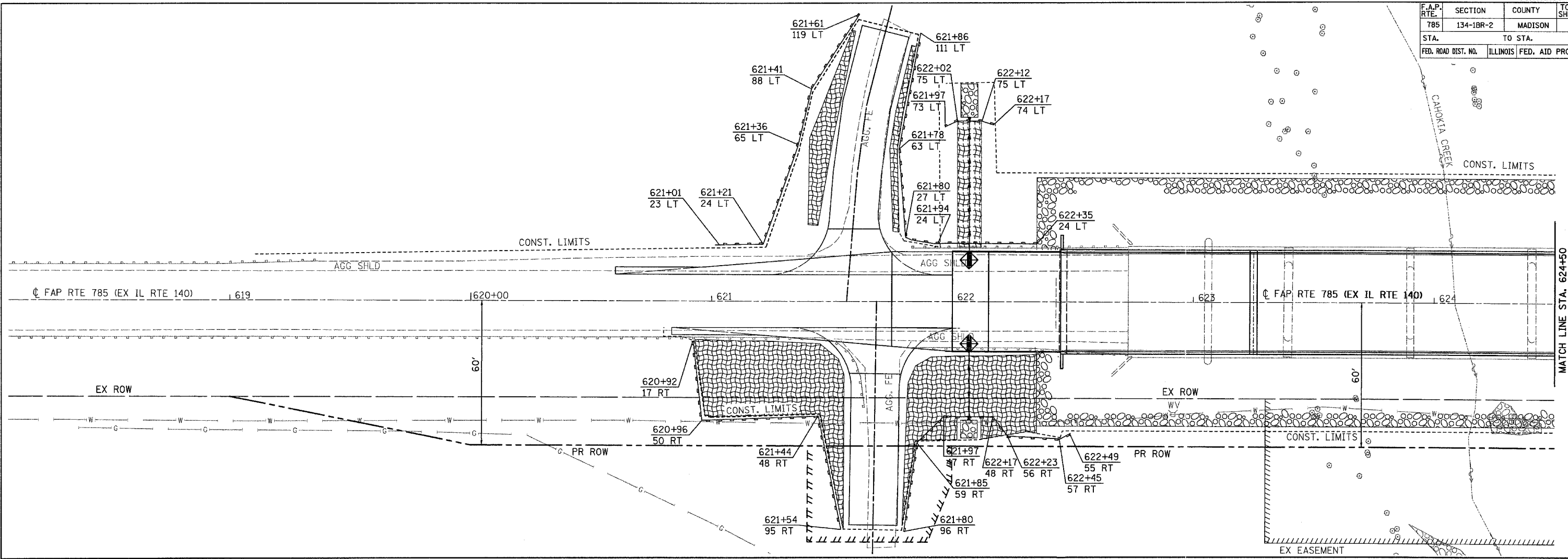
**EROSION CONTROL SCHEDULE**

STATION	STATION	EROSION CONTR BLANKET (SQ YD)	PERIMETER EROS BAR (FOOT)	INLET & PIPE PROTECT (EACH)
LT 621+01	LT 621+61		124	
LT 621+86	LT 622+35		141	
LT 621+96	LT 622+16		21	
LT 621+40	LT 621+59	55		
LT 621+75	LT 621+78	24		
LT 622+06.5				1
LT 622+02	LT 622+12	58		
RT 622+06.5				1
RT 620+92	RT 621+54		130	
RT 620+93	RT 621+55	223		
RT 621+80	RT 622+49		110	
RT 621+82	RT 622+35	196		
LT 625+45	LT 628+15		272	
LT 625+63	LT 625+83		21	
LT 625+70	LT 625+80	58		
LT 625+73.5				1
RT 625+25	RT 627+22		216	
RT 625+45	RT 627+16	501		
RT 625+73.5				1
<b>TOTAL</b>		<b>1115</b>	<b>749</b>	<b>4</b>

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<p align="center"><b>STORM WATER POLLUTION PREVENTION PLAN</b></p> <p align="center">FAP ROUTE 785 SECTION 134-1BR-2 MADISON COUNTY</p>

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	134-1BR-2	MADISON	56	18
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



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 $D = 0^\circ 09' 31''$   
 $R = 36,135.00'$   
 $T = 152.60'$   
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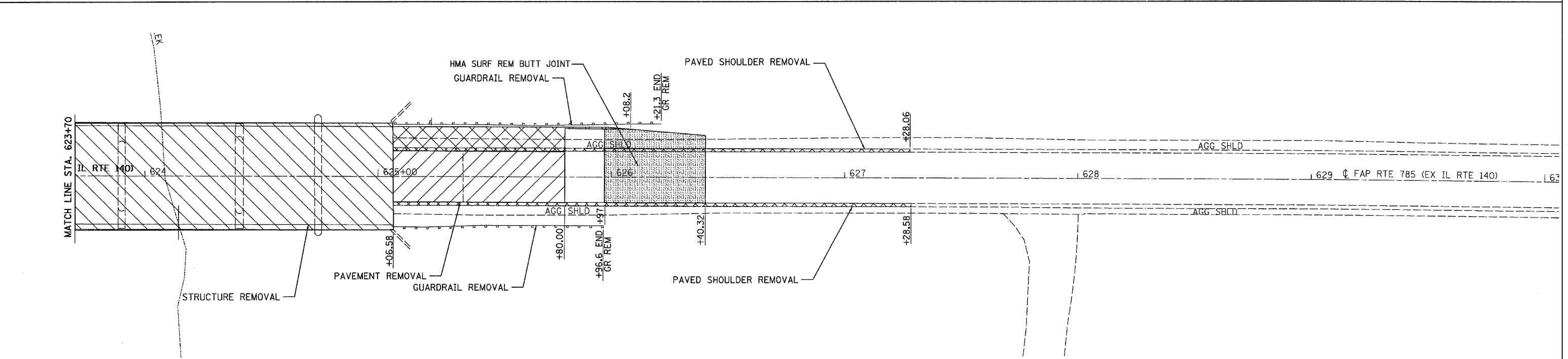
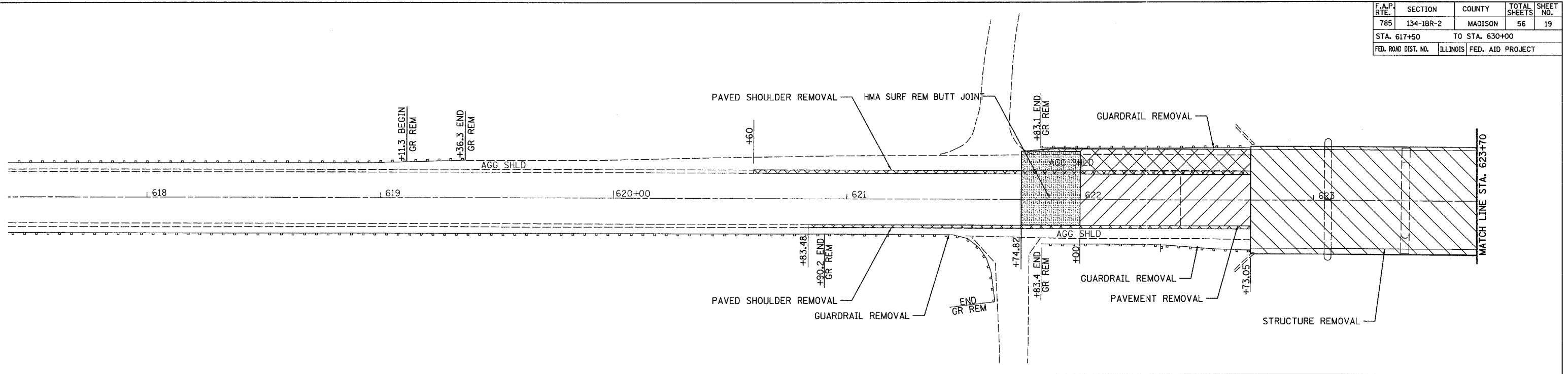
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**STORM WATER POLLUTION PREVENTION PLAN**  
 FAP ROUTE 785  
 SECTION 134-1BR-2  
 MADISON COUNTY  
 SN 060-0240





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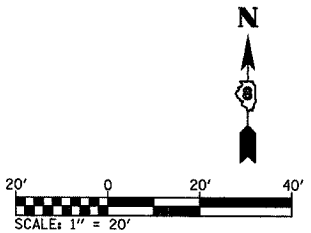
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STA. 617+50		TO STA. 630+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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**LEGEND**

-  STRUCTURE REMOVAL
-  PAVEMENT REMOVAL
-  PAVED SHOULDER REMOVAL
-  HMA SURFACE REMOVAL FOR BUTT JOINT



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**REMOVAL**  
 FAP ROUTE 785  
 SECTION 134-1BR-2  
 MADISON COUNTY

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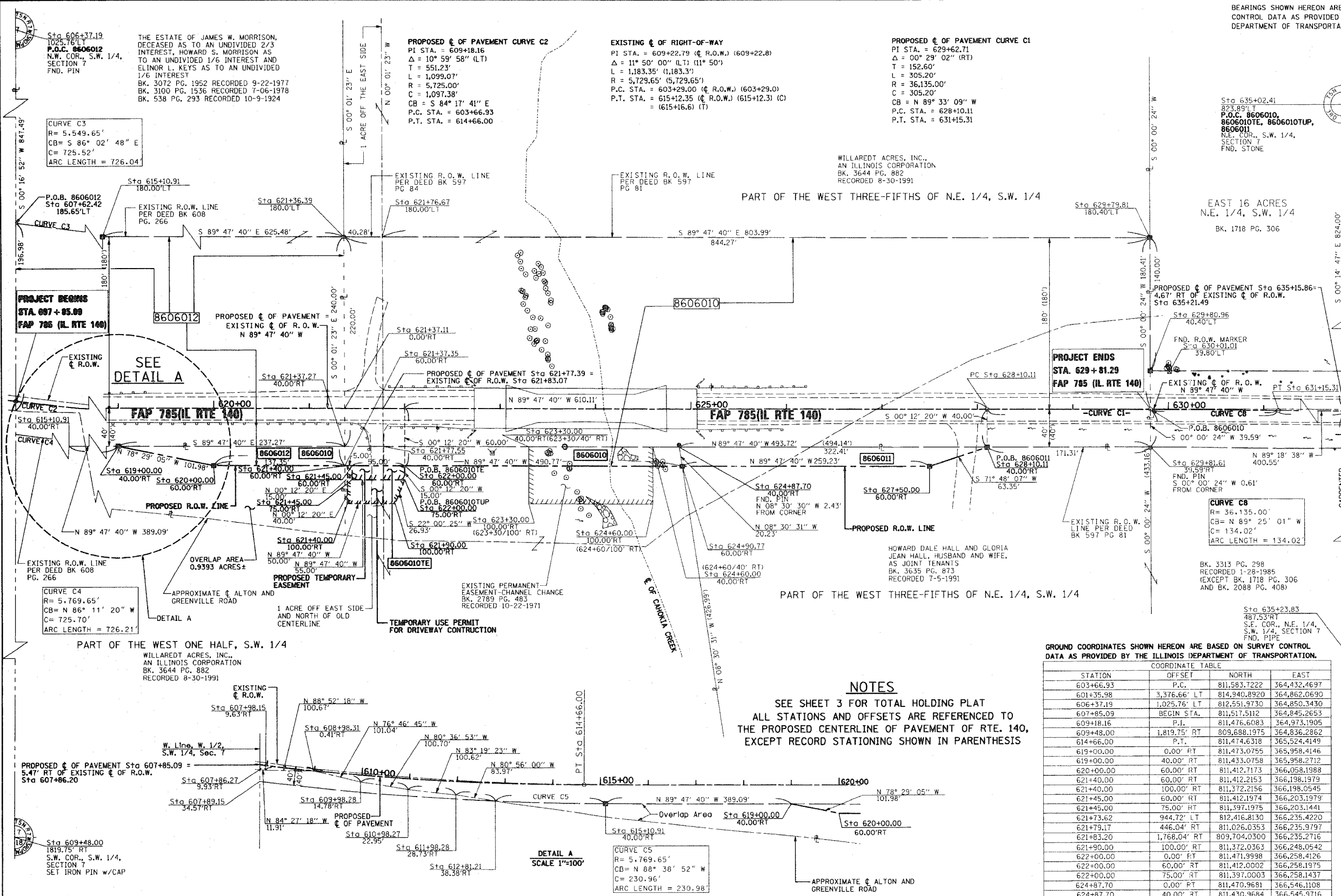
FAP NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	134-1BR-2	MADISON	56	21

STA. 607+85.09 TO STA. 629+81.29  
CONTRACT NO. 76902

BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

LEGEND

- C.O.B. POINT ON LINE
- EXISTING CENTERLINE
- EXISTING RIGHT OF WAY LINE
- EXISTING EASEMENT LINE
- PROPOSED CENTERLINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED TEMPORARY EASEMENT LINE
- PROPOSED TEMPORARY USE PERMIT LINE
- PROPOSED PERMANENT EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER QUARTER SECTION LINE
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- MEASURED DIMENSION (123.45)
- COMPUTED DIMENSION (123.45)
- RECORDED DIMENSION (123.45)
- FOUND IRON PIPE OR IRON ROD AT CORNER UNLESS OTHERWISE NOTED
- SET 5/8 INCH IRON ROD AT CORNER UNLESS OTHERWISE NOTED
- PERMANENT SURVEY MONUMENT, I.O.T. STD. 67101 (TO BE SET BY OTHERS)
- CUT CROSS FOUND OR SET
- SAME OWNERSHIP
- EXISTING BUILDING
- STAKING OF PROPOSED RIGHT OF WAY. SET 3/4 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. SET 3/4 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.



GROUND COORDINATES SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

STATION	OFFSET	COORDINATE TABLE	
		NORTH	EAST
603+66.93	P.C.	811,583.7222	364,432.4697
601+35.98	3,376.66' LT	814,940.8920	364,862.0690
606+37.19	1,025.76' LT	812,551.9730	364,850.3430
607+85.09	BEGIN STA.	811,517.5112	364,845.2653
609+18.16	P.I.	811,476.6083	364,973.1905
609+48.00	1,819.75' RT	809,688.1975	364,836.2862
614+66.00	P.T.	811,474.6318	365,524.4149
619+00.00	0.00' RT	811,473.0755	365,958.4146
619+00.00	40.00' RT	811,433.0758	365,958.2712
620+00.00	60.00' RT	811,412.7173	366,058.1988
621+40.00	60.00' RT	811,412.2153	366,198.1979
621+40.00	100.00' RT	811,372.2156	366,198.0545
621+45.00	60.00' RT	811,412.1974	366,203.1979
621+45.00	75.00' RT	811,397.1975	366,203.1441
621+73.62	944.72' LT	812,416.8130	366,235.4220
621+79.17	446.04' RT	811,026.0353	366,235.9797
621+83.20	1,768.04' RT	809,704.0300	366,235.2716
621+90.00	100.00' RT	811,372.0363	366,248.0542
622+00.00	0.00' RT	811,471.9998	366,258.4126
622+00.00	60.00' RT	811,412.0002	366,258.1975
622+00.00	75.00' RT	811,397.0003	366,258.1437
624+87.70	0.00' RT	811,470.9681	366,546.1108
624+87.70	40.00' RT	811,430.9684	366,545.9716
624+90.77	60.00' RT	811,410.9575	366,548.9653
627+50.00	60.00' RT	811,410.0280	366,808.1940
628+10.11	P.C.	811,469.8121	366,868.5187
628+10.11	40.00' RT	811,429.8123	366,868.3753
629+62.71	P.I.	811,469.2649	367,021.1196
629+81.29	END STA.	811,468.7928	367,039.6927
631+15.31	P.T.	811,467.4288	367,173.7104
634+92.52	2,147.17' LT	813,609.9000	367,576.7280
635+02.41	823.89' LT	812,286.6010	367,570.6890
635+23.83	487.53' RT	810,975.0160	367,576.3290
635+44.16	1,799.29' RT	809,663.1100	367,580.8840

**NOTES**  
SEE SHEET 3 FOR TOTAL HOLDING PLAT  
ALL STATIONS AND OFFSETS ARE REFERENCED TO THE PROPOSED CENTERLINE OF PAVEMENT OF RTE. 140, EXCEPT RECORD STATIONING SHOWN IN PARENTHESES

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	FEE SIMPLE ACQUISITION				REMAINDER ACRES	EASEMENTS		PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY		
			GROSS ACRES	PREVIOUSLY DEDICATED ACRES	NET ACRES	TE - TEMPORARY ACRES		TE - TEMPORARY SO. FT.	EASEMENT PURPOSE				
8606010	WILLAREDT ACRES, INC., AN ILLINOIS CORPORATION TITLE REPORT MA-3824.0; MA-3825.0	146.3515	4.5113	196,511	4,2637	185,726	0.2476	10,785	141.8402	TE=0.0189 TUP=0.0333	825 1,450	ENTRANCE CONSTRUCTION ENTRANCE CONSTRUCTION	11-1-10-07-00-000-024
8606011	HOWARD DALE HALL AND GLORIA JEAN HALL, HUSBAND AND WIFE, AS JOINT TENANTS TITLE REPORT MA-3826.0; MA3827.0	9.3616	0.1335	5,816	N/A	N/A	0.1335	5,816	9.2281	N/A	N/A	N/A	11-1-10-07-00-000-021
8606012	THE ESTATE OF JAMES W. MORRISON, DECEASED AS TO AN UNDIVIDED 2/3 INTEREST, HOWARD S. MORRISON AS TO AN UNDIVIDED 1/6 INTEREST AND ELINOR L. KEYS AS TO AN UNDIVIDED 1/6 INTEREST TITLE REPORT MA-3823.0	33.0031	6.6953	291,647	6,6093	287,901	0.0860	3,746	26.3078	N/A	N/A	N/A	11-1-10-07-00-000-023

**McDonough-Whitlow, P.C.**  
Consulting Engineers & Land Surveyors  
138 East Wood Street  
Hillsboro, IL 62049  
Phone: 217.532.9233  
Fax: 217.532.6300  
PROFESSIONAL DESIGN NO. 184-002754

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PLAT OF HIGHWAYS**  
FAP ROUTE 785 (IL 140)  
SECTION 134-1BR-2  
MADISON COUNTY  
JOB NO. R-98-006-06  
STATION 607+85.09 TO STATION 629+81.29  
50' 0' 50' 100'  
SCALE: 1" = 50'  
ILLINOIS DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS/DISTRICT B  
1102 EASTPORT PLAZA DRIVE  
COLLINSVILLE, ILLINOIS 62234-6198  
SHEET 1 IS A COVER SHEET

PLOT DATE: 02-09-06 9:05 A.M.

Bench Mark: Chiseled "□" on top of NW wingwall of Illinois Route 140 bridge over Cahokia Creek. Elevation 479.28

Existing Structure: S.N. 060-0097 built in 1927 as S.B.I. Route 160, Section 134C, at Station 623+90. Bridge was built as a five span bridge with a 234 foot length. Four spans were spanned by concrete T girders and the center span by a 100 foot truss. In 1971 the superstructure was removed, a center pier constructed, existing piers and abutments widened, and precast deck beams placed as the new superstructure. Traffic to be maintained utilizing stage construction. No salvage.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Note: Soil will need to be removed to provide the required waterway opening under the proposed bridge. Hatched area gives a rough indication of the removal area. See roadway plans for quantities.

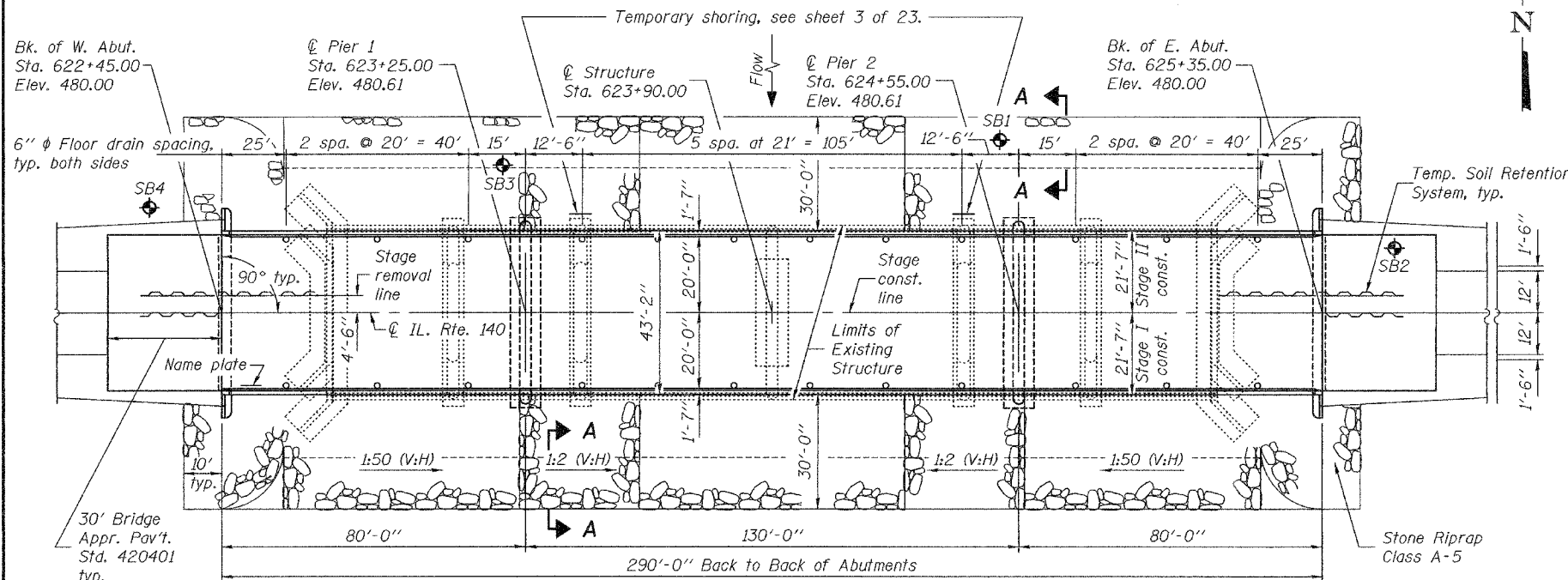
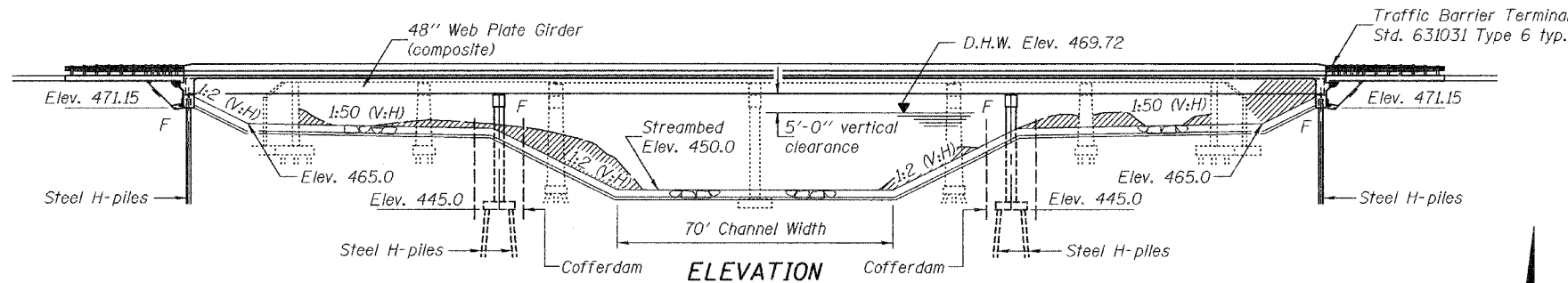
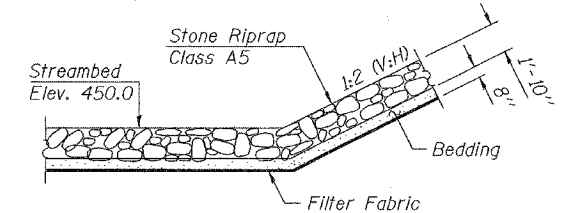
INDEX OF SHEETS

- 1 General Plan
- 2 General Data & Stage Construction Details
- 3 Stage Construction Details & Temporary Soil Retention System
- 4 Temporary Concrete Barrier for Stage Construction
- 5-7 Top of Slab Elevations
- 8 Superstructure
- 9 Superstructure Details
- 10 Diaphragm Details
- 11 Structural Steel
- 12 Structural Steel Details
- 13 Bearing Details
- 14 West Abutment
- 15 East Abutment
- 16 Pier 1
- 17 Pier 2
- 18 Bar Splicer Assembly Details
- 19 Pile Details
- 20-23 Boring Logs

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1
FAP 785	134-1BR-2	MADISON	22	56	23 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

STATION 623+90.00  
BUILT 20 BY  
STATE OF ILLINOIS  
F.A.P. RT. 785 SEC. 134-1BR-2  
LOADING HL-93  
STRUCTURE NO. 060-0240

NAME PLATE  
See Std. 515001



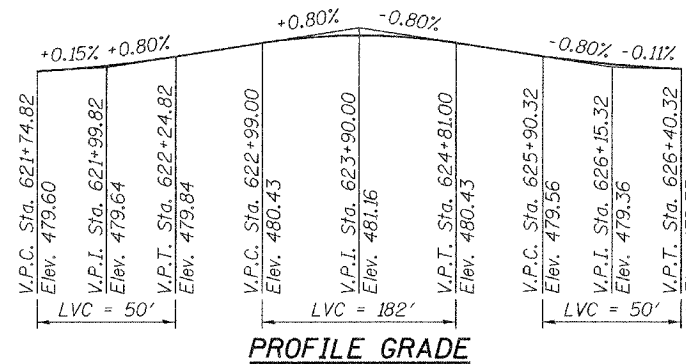
PLAN

WATERWAY INFORMATION

		0		Opening		Natural H.W.E. (FT)	Created Head		H.W.E.		
Flood	Freq. Yr.	Exist. (CFS)	Prop. (CFS)	Exist. (SQ FT)	Prop. (SQ FT)		Exist. (FT)	Prop. (FT)	Exist. (FT)	Prop. (FT)	
Design	50	060-0097	7394.28	7833.30	1686.58	1805.93	469.72	1.32	1.20	471.04	470.92
		060-0237	4835.50	4483.35	783.72	783.72					
		Culvert	1124.22	1037.35	200.00	200.00					
		Total	13354.00	13354.00	2670.30	2789.65					
Base	100	060-0097	8495.67	8975.92	1740.46	1869.33	469.97	1.45	1.32	471.42	471.29
		060-0237	5218.41	4832.31	804.90	804.90					
		Culvert	1166.92	1072.77	200.00	200.00					
		Total	14881.00	14881.00	2745.36	2874.23					
Over-topping	N/A									0.00	0.00
		Total	0.00	0.00	0.00	0.00					
Max. Calc.	500	060-0097	11212.24	11860.89	1861.14	2012.24	470.53	1.80	1.61	472.33	472.14
		060-0237	6205.61	5670.98	853.34	853.34					
		Culvert	1270.15	1156.13	200.00	200.00					
		Total	18688.00	18688.00	2914.48	3065.58					
Scour	10	060-0097	4582.57	4947.07	1531.42	1624.75	469.00	0.94	0.86	469.94	469.86
		060-0237	3912.73	3625.25	724.27	724.27					
		Culvert	995.70	918.68	187.80	187.80					
		Total	9491.00	9491.00	2443.49	2536.82					

10 yr. velocity through existing bridge = 3.45 fps  
10 yr. velocity through proposed bridge = 3.57 fps

Design Scour Elevation (feet)	W. Abutment	Pier 1	Pier 2	E. Abutment
	471	445	445	471



PROFILE GRADE

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

AASHTO LRFD Bridge Design Specifications  
U.S. 3rd. Edition - 2004 w/ 2005 Interims

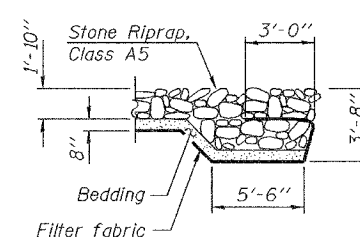
DESIGN STRESSES

FIELD UNITS

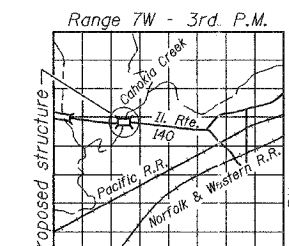
$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (reinforcement)  
 $f_y = 50,000$  psi (structural steel M 270, Gr. 50)  
 $f_y = 36,000$  psi (structural steel M 270, Gr. 36)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1  
Bedrock Acceleration Coefficient (A) = 0.085g  
Site Coefficient (S) = 1.5



SECTION A-A



LOCATION SKETCH

GENERAL PLAN  
ILLINOIS ROUTE 140 OVER  
CAHOKIA CREEK  
F.A.P. RTE. 785 - SEC. 134-1BR-2  
MADISON COUNTY  
STATION 623+90.00  
STRUCTURE NO. 060-0240

DESIGNED	Adrian T. Hung
CHECKED	Adrian T. Hung
DRAWN	h.t. duong
CHECKED	R.L. / NLF

EXAMINED	April 9, 2007
PASSED	Engineer of Bridge Design



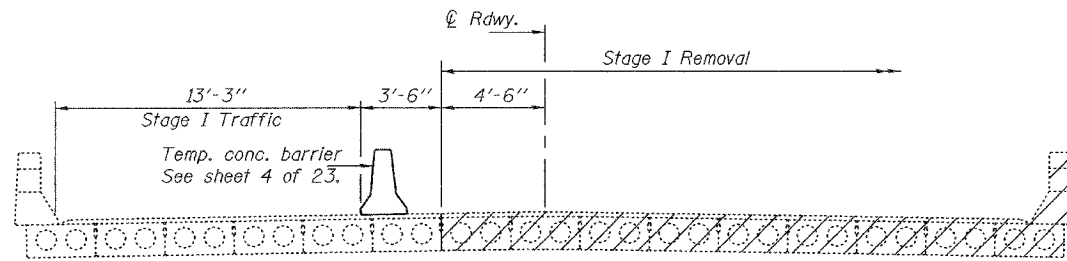
EXPIRES 11-30-2008

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

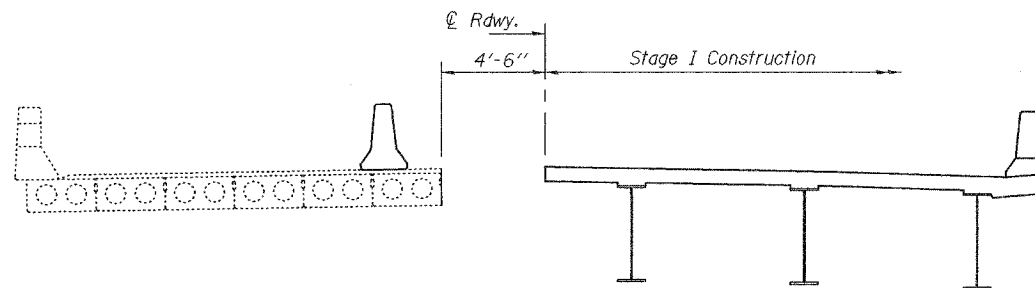
ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
FAP 785	134-1BR-2	MADISON	23	56
FED. ROAD DIST. NO. 7		ILLINOIS		

Contract #76902

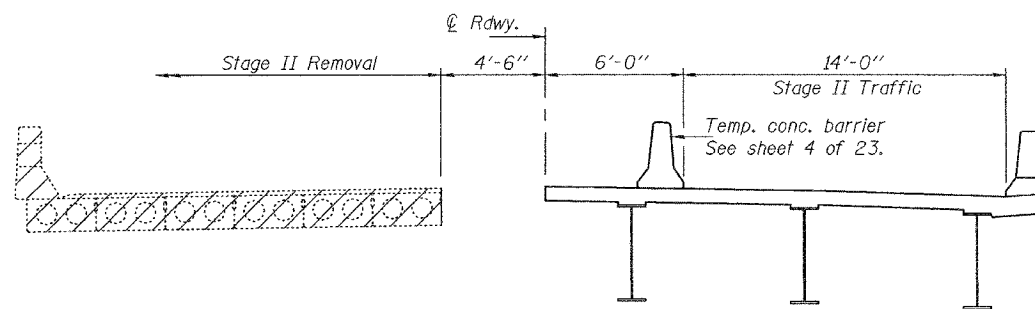
23 SHEETS



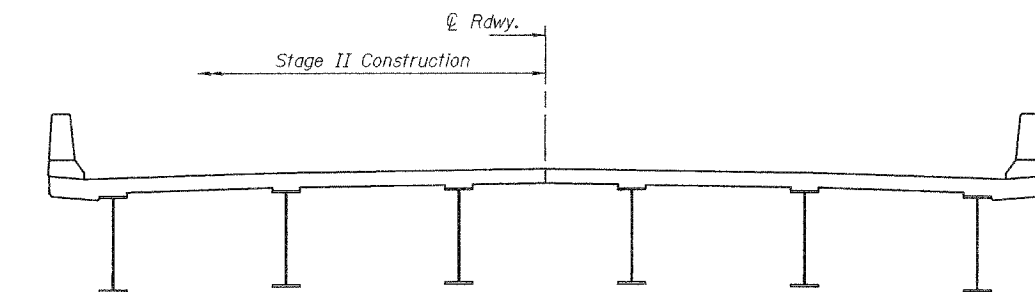
STAGE I REMOVAL



STAGE I CONSTRUCTION



STAGE II REMOVAL



STAGE II CONSTRUCTION

Notes: Hatched area indicates removal of existing structures.  
All staging sections are looking east.  
For quantity of temporary concrete barriers, see roadway plans.

DESIGNED	R.L. Tharp
CHECKED	N.R. Barnett
DRAWN	h.f. duong
CHECKED	RLT/NRB

April 9, 2007  
EXAMINED *Thomas J. Donagallo*  
CHIEF ENGINEER OF BRIDGE DESIGN  
PASSED *Ralph E. Anderson*  
ENGINEER OF BRIDGES AND STRUCTURES

GENERAL NOTES

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts.  
Bolts 3/8" φ, holes 1/2" φ, unless otherwise noted.  
Calculated weight of Structural Steel = 326520 lb (AASHTO M 270, Gr. 50)  
36050 lb (AASHTO M 270, Gr. 36)

No field welding is permitted except as specified in the contract documents.  
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.

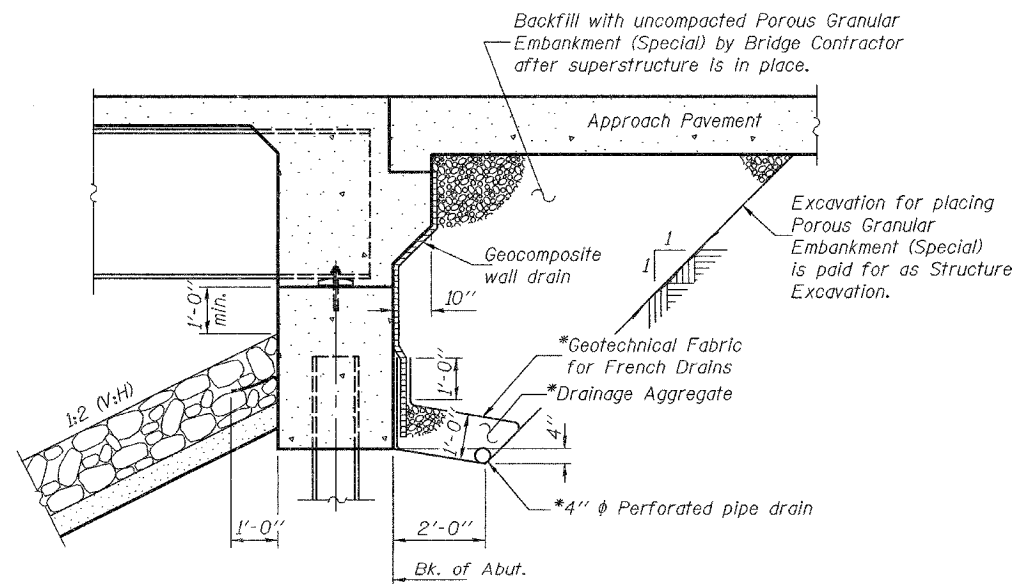
Reinforcement bars designated (E) shall be epoxy coated.  
Bearing seat surfaces shall be constructed or adjusted to their designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.  
The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be gray, Munsell No. 5B 7/1. See Special Provision for "Cleaning and Painting New Metal Structures".

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.  
The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.

Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal lines before Stage I removal to ensure the remaining portion will not be prematurely damaged.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.		203	203
Stone Riprap, Class A5	Sq. Yd.		3426	3426
Filter Fabric	Sq. Yd.		3426	3426
Removal of Existing Structures	Each		1	1
Structure Excavation	Cu. Yd.		208	208
Cofferdam Excavation	Cu. Yd.		796	796
Cofferdam (Location 1)	Each		1	1
Cofferdam (Location 2)	Each		1	1
Floor Drains	Each	24		24
Concrete Structures	Cu. Yd.		336.8	336.8
Concrete Superstructure	Cu. Yd.	423.0		423.0
Bridge Deck Grooving	Sq. Yd.	1224		1224
Concrete Encasement	Cu. Yd.		5.4	5.4
Protective Coat	Sq. Yd.	1532		1532
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	4176		4176
Reinforcement Bars, Epoxy Coated	Pound	108960	42060	151020
Bar Splicers	Each	1117	182	1299
Driving Piles	Foot		4147	4147
Furnishing Steel Piles HPI2x63	Foot		4147	4147
Test Pile Steel HPI2x63	Each		4	4
Pile Shoes	Each		72	72
Temporary Soil Retention System	Sq. Ft.	1029		1029
Name Plates	Each	1		1
Geocomposite Wall Drain	Sq. Yd.		99	99
Pipe Underdrains for Structures, 4"	Foot		170	170
Anchor Bolts, 1" φ	Each	24		24
Anchor Bolts, 1/4" φ	Each	24		24
Temporary Shoring	Each		2	2
Asbestos Bearing Pad Removal	Each	180		180



SECTION THRU INTEGRAL ABUTMENT

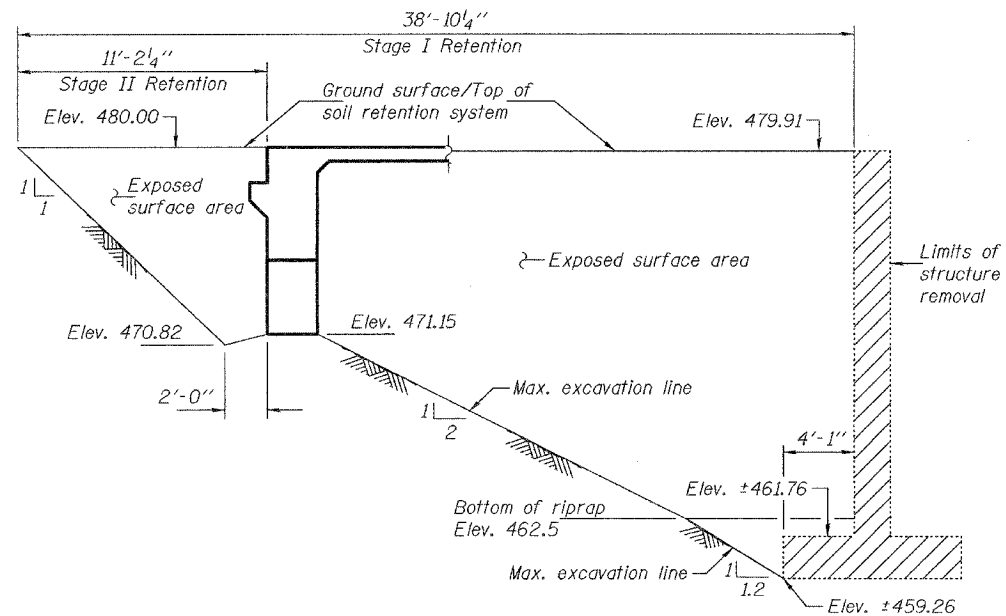
\*Included in the cost of Pipe Underdrains for Structures, 4".

Note: All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

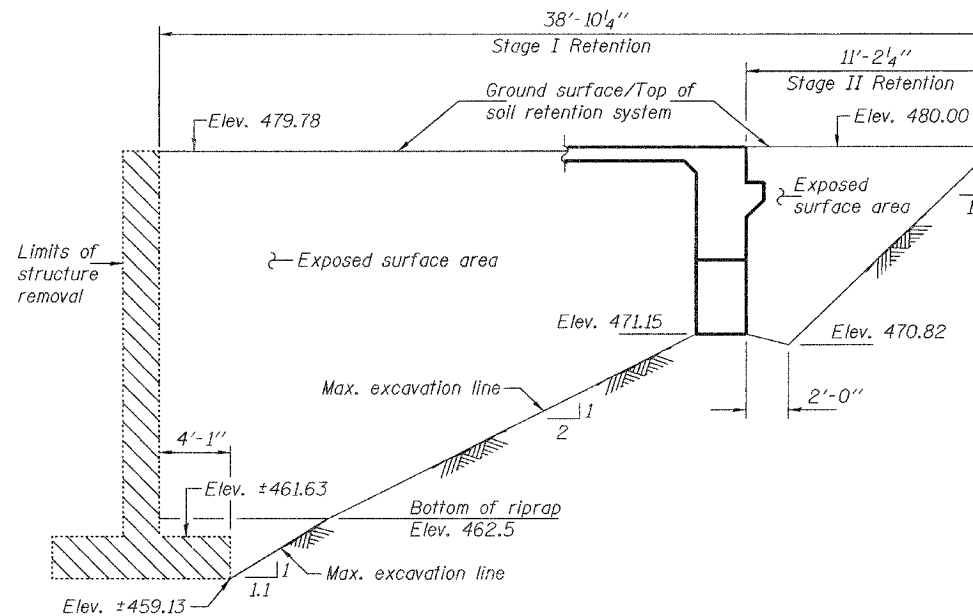
GENERAL DATA &  
STAGE CONSTRUCTION DETAILS  
F.A.P. RTE. 785 - SEC. 134-1BR-2  
MADISON COUNTY  
STATION 623+90.00  
STRUCTURE NO. 060-0240

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	STATES	SHEET NO.	SHEET NO. 3 23 SHEETS
FAP 785	134-IBR-2	MADISON	24	50	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-	Contract #76902		

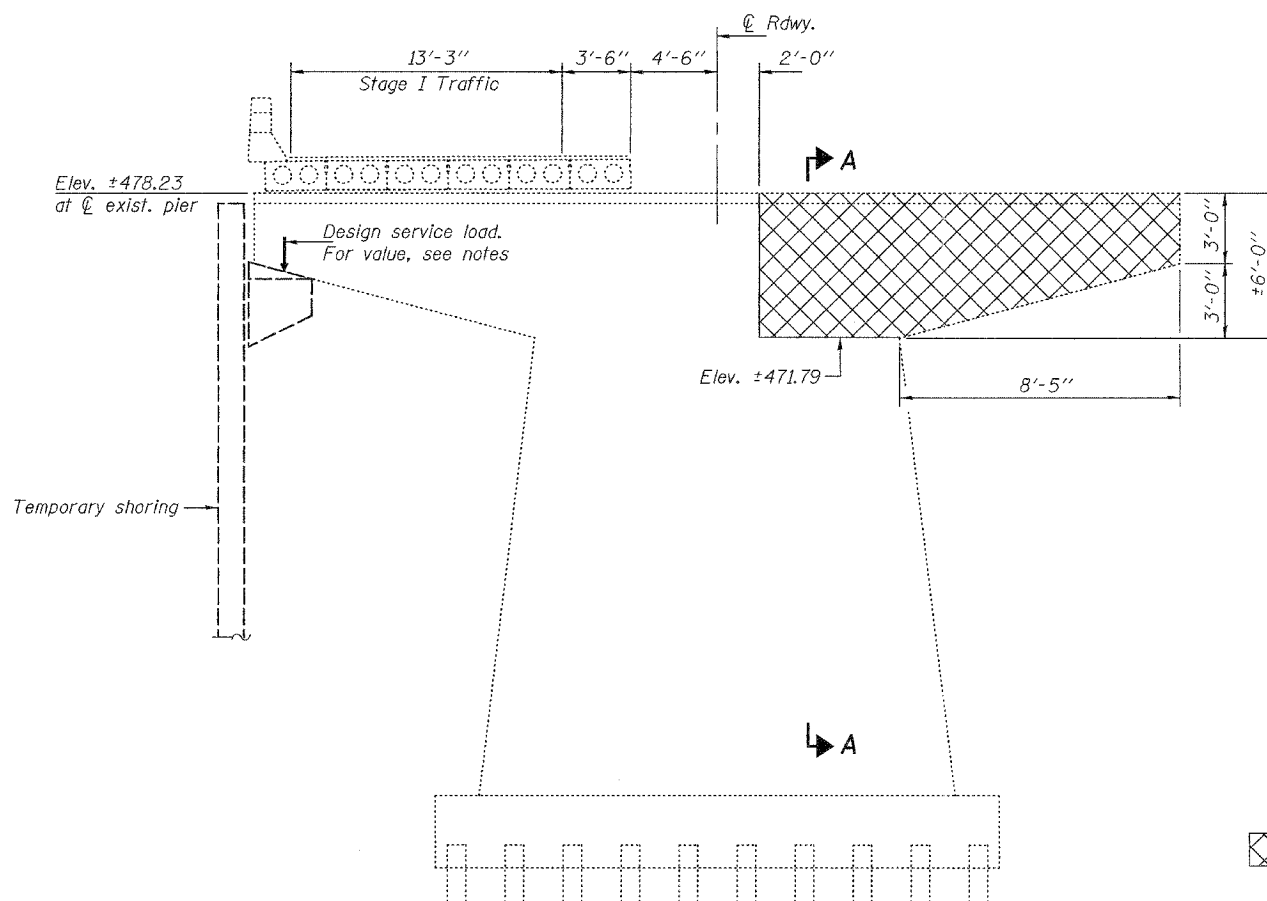


**TEMPORARY SOIL RETENTION SYSTEM  
AT WEST ABUTMENT**



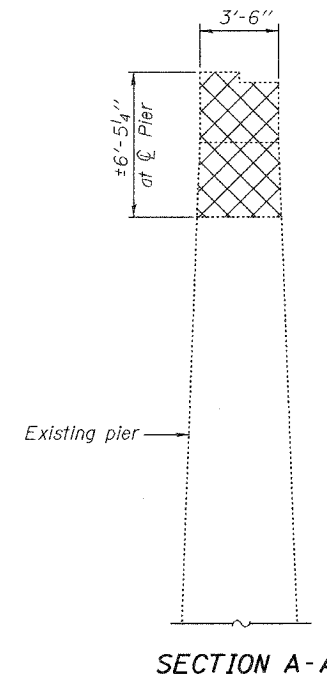
**TEMPORARY SOIL RETENTION SYSTEM  
AT EAST ABUTMENT**

Note: A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.



**ELEVATION - EXISTING PIERS 2 & 4**  
(Looking east - Pier 2 shown; Pier 4 similar)

**TEMPORARY SHORING DETAILS AT EXISTING PIERS**



Hatched area indicates the maximum portion of the existing pier that may be removed during Stage I Removal to allow Stage I Construction. Remaining portions of the existing pier that are to be removed shall be removed during Stage II Removal. Cost included with Removal of Existing Structures.

Notes: The cantilever portion of the existing piers shall be shored as shown on this sheet prior to beginning of Stage I Removal. The temporary shoring shall remain in place until the remaining existing superstructure has been completely removed during Stage II Removal. See Special Provision. (See sheet 2 of 23 for additional Stage Construction Details.)  
Temporary shoring shall not be supported on any part of the pier or its footing.  
Design service load at support contact as shown is 206 kips.  
Horizontal and vertical removal lines shall be saw cut to a minimum depth of 12 inches on each face of the existing pier prior to jack hammering.

**BILL OF MATERIAL**

Item	Unit	Total
Temporary Shoring	Each	2

**STAGE CONSTRUCTION DETAILS &  
TEMPORARY SOIL RETENTION SYSTEM  
F.A.P. RTE. 785 - SEC. 134-IBR-2  
MADISON COUNTY  
STATION 623+90.00  
STRUCTURE NO. 060-0240**

DESIGNED	R.L. Tharp
CHECKED	N.R. Barnett
DRAWN	h.t. duong
CHECKED	RLT/NRB

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

April 9, 2007



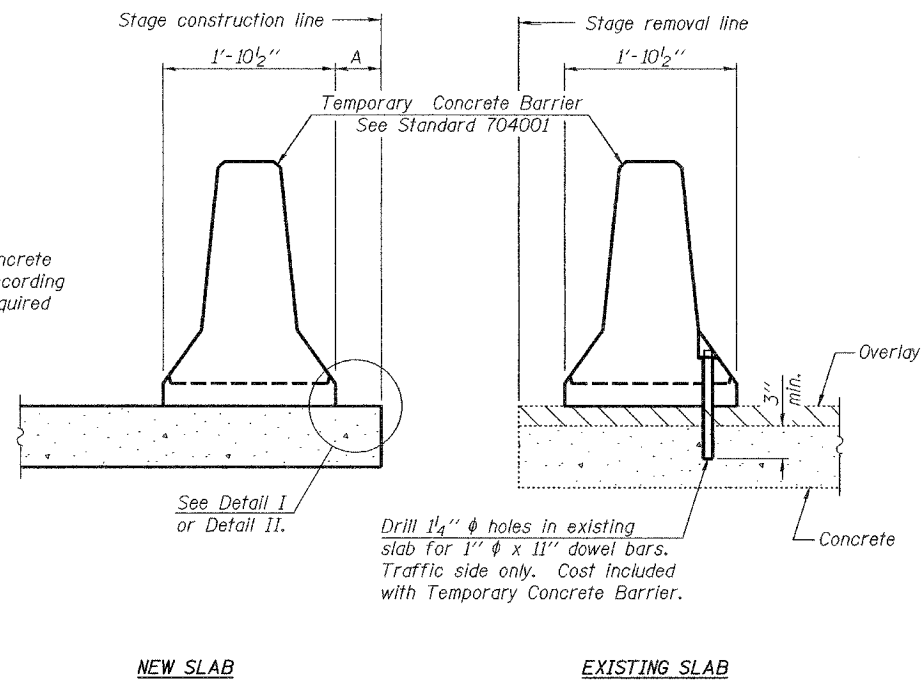
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 785	134-IBR-2	MADISON	25	56
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		

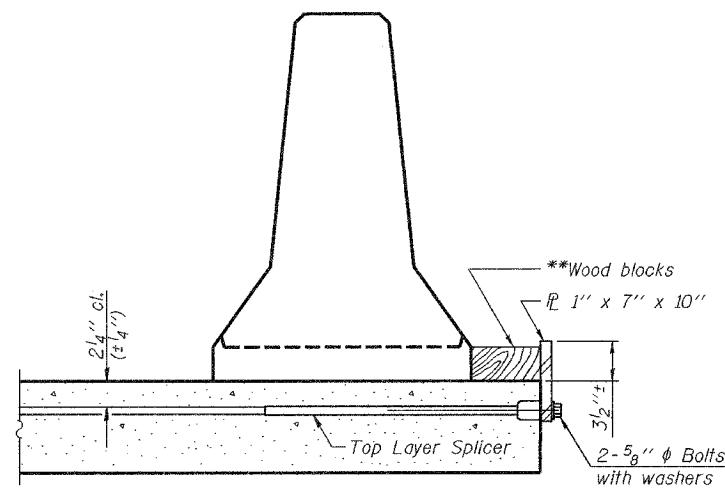
SHEET NO. 4  
23 SHEETS

Contract #76902

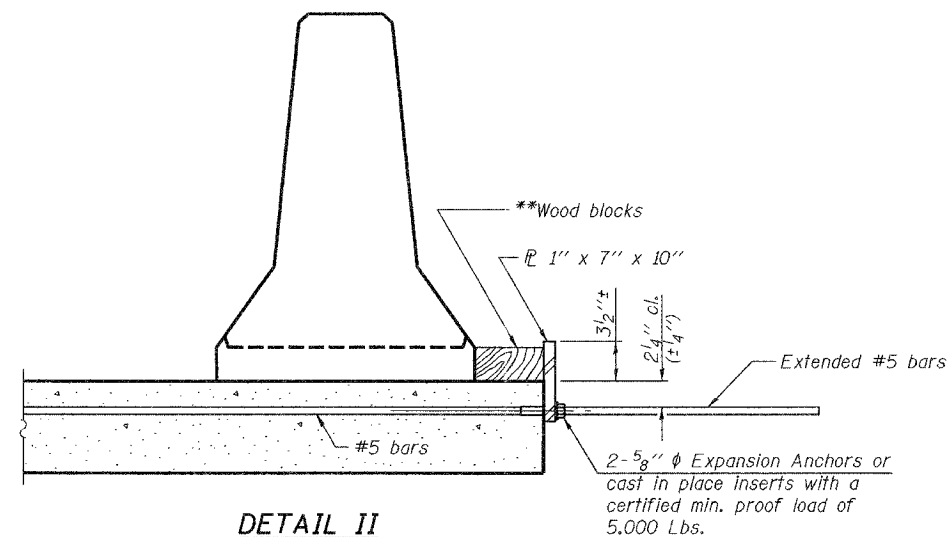
When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



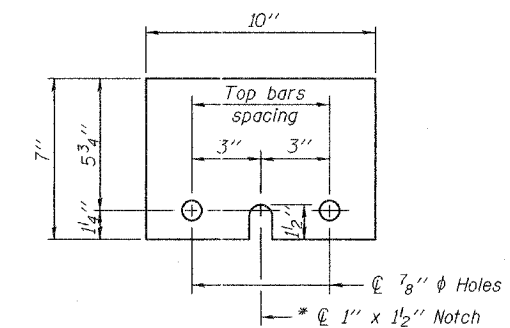
SECTIONS THRU SLAB



DETAIL I



DETAIL II



STEEL RETAINER  $\mathbb{R}$  1" x 7" x 10"

\* Required only with Detail II

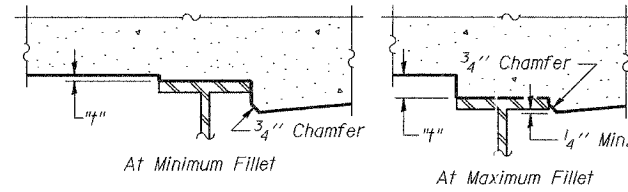
\*\* Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

DESIGNED	R.L. Tharp
CHECKED	N.R. Barnett
DRAWN	h.t. duong
CHECKED	RLT/NRB

APPROVED	April 9, 2007
EXAMINED	Thomas J. Damagala ENGINEER OF BRIDGE DESIGN
PASSED	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

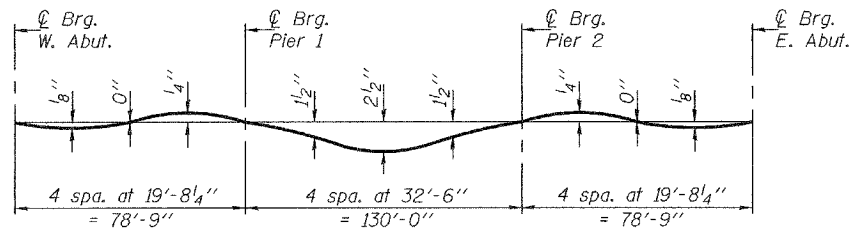
TEMPORARY CONCRETE BARRIER  
FOR STAGE CONSTRUCTION  
F.A.P. RTE. 785 - SEC. 134-IBR-2  
MADISON COUNTY  
STATION 623+90.00  
STRUCTURE NO. 060-0240

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 785	134-IBR-2	MADISON	26	56
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

Contract #76902



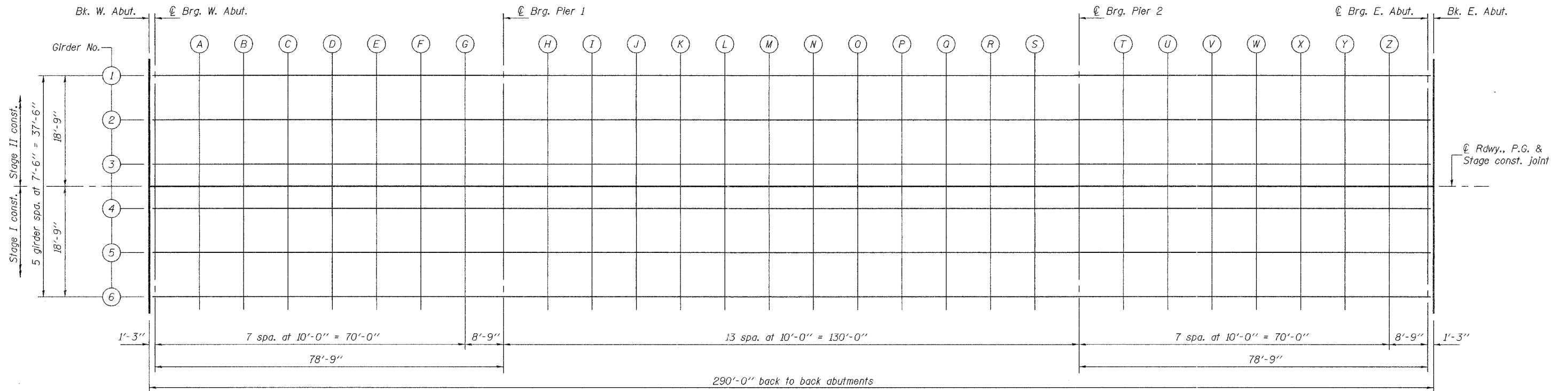
**DEAD LOAD DEFLECTION DIAGRAM**

(Includes weight of concrete only.)

Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheets 6 & 7 of 23.

To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheets 6 & 7 of 23, minus slab thickness, equals the fillet heights "t" above top flange of beams.

**FILLET HEIGHTS**



**PLAN**

DESIGNED	R.L. Tharp
CHECKED	N.R. Barnett
DRAWN	h.f. duong
CHECKED	RLT/NRB

April 9, 2007  
 EXAMINED *Thomas J. Domagala*  
 CHIEF ENGINEER OF BRIDGE DESIGN  
 PASSED *Ralph E. Anderson*  
 ENGINEER OF BRIDGES AND STRUCTURES

**TOP OF SLAB ELEVATIONS**  
**F.A.P. RTE. 785 - SEC. 134-IBR-2**  
**MADISON COUNTY**  
**STATION 623+90.00**  
**STRUCTURE NO. 060-0240**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET	SHEET NO.
FAP 785	134-IBR-2	MADISON	27	56	23 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #76902

GIRDER 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut	62245.00	-18.75	479.67	479.67
☉ Brg. W. Abut	62246.25	-18.75	479.68	479.68
A	62256.25	-18.75	479.76	479.77
B	62266.25	-18.75	479.84	479.85
C	62276.25	-18.75	479.92	479.93
D	62286.25	-18.75	480.00	480.00
E	62296.25	-18.75	480.08	480.07
F	62306.25	-18.75	480.16	480.14
G	62316.25	-18.75	480.23	480.22
☉ Brg. Pier 1	62325.00	-18.75	480.28	480.28
H	62335.00	-18.75	480.34	480.37
I	62345.00	-18.75	480.38	480.46
J	62355.00	-18.75	480.41	480.53
K	62365.00	-18.75	480.44	480.58
L	62375.00	-18.75	480.46	480.63
M	62385.00	-18.75	480.47	480.66
N	62395.00	-18.75	480.47	480.66
O	62405.00	-18.75	480.46	480.63
P	62415.00	-18.75	480.44	480.58
Q	62425.00	-18.75	480.41	480.53
R	62435.00	-18.75	480.38	480.46
S	62445.00	-18.75	480.34	480.37
☉ Brg. Pier 2	62455.00	-18.75	480.28	480.28
T	62465.00	-18.75	480.22	480.21
U	62475.00	-18.75	480.15	480.13
V	62485.00	-18.75	480.07	480.06
W	62495.00	-18.75	479.99	479.99
X	62505.00	-18.75	479.91	479.92
Y	62515.00	-18.75	479.83	479.84
Z	62525.00	-18.75	479.75	479.76
☉ Brg. E. Abut	62533.75	-18.75	479.68	479.68
Bk. E. Abut	62535.00	-18.75	479.67	479.67

GIRDER 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut	62245.00	-11.25	479.82	479.82
☉ Brg. W. Abut	62246.25	-11.25	479.83	479.83
A	62256.25	-11.25	479.91	479.92
B	62266.25	-11.25	479.99	480.00
C	62276.25	-11.25	480.07	480.08
D	62286.25	-11.25	480.15	480.15
E	62296.25	-11.25	480.23	480.23
F	62306.25	-11.25	480.31	480.30
G	62316.25	-11.25	480.38	480.37
☉ Brg. Pier 1	62325.00	-11.25	480.43	480.43
H	62335.00	-11.25	480.49	480.53
I	62345.00	-11.25	480.53	480.61
J	62355.00	-11.25	480.57	480.68
K	62365.00	-11.25	480.59	480.74
L	62375.00	-11.25	480.61	480.78
M	62385.00	-11.25	480.62	480.81
N	62395.00	-11.25	480.62	480.81
O	62405.00	-11.25	480.61	480.78
P	62415.00	-11.25	480.59	480.74
Q	62425.00	-11.25	480.57	480.68
R	62435.00	-11.25	480.53	480.61
S	62445.00	-11.25	480.49	480.53
☉ Brg. Pier 2	62455.00	-11.25	480.43	480.43
T	62465.00	-11.25	480.37	480.36
U	62475.00	-11.25	480.30	480.29
V	62485.00	-11.25	480.22	480.22
W	62495.00	-11.25	480.14	480.14
X	62505.00	-11.25	480.06	480.07
Y	62515.00	-11.25	479.98	479.99
Z	62525.00	-11.25	479.90	479.91
☉ Brg. E. Abut	62533.75	-11.25	479.83	479.83
Bk. E. Abut	62535.00	-11.25	479.82	479.82

GIRDER 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut	62245.00	-3.75	479.94	479.94
☉ Brg. W. Abut	62246.25	-3.75	479.95	479.95
A	62256.25	-3.75	480.03	480.04
B	62266.25	-3.75	480.11	480.12
C	62276.25	-3.75	480.19	480.20
D	62286.25	-3.75	480.27	480.27
E	62296.25	-3.75	480.35	480.34
F	62306.25	-3.75	480.43	480.41
G	62316.25	-3.75	480.50	480.49
☉ Brg. Pier 1	62325.00	-3.75	480.55	480.55
H	62335.00	-3.75	480.60	480.64
I	62345.00	-3.75	480.65	480.73
J	62355.00	-3.75	480.68	480.80
K	62365.00	-3.75	480.71	480.85
L	62375.00	-3.75	480.73	480.90
M	62385.00	-3.75	480.74	480.93
N	62395.00	-3.75	480.74	480.93
O	62405.00	-3.75	480.73	480.90
P	62415.00	-3.75	480.71	480.85
Q	62425.00	-3.75	480.68	480.80
R	62435.00	-3.75	480.65	480.73
S	62445.00	-3.75	480.60	480.64
☉ Brg. Pier 2	62455.00	-3.75	480.55	480.55
T	62465.00	-3.75	480.49	480.48
U	62475.00	-3.75	480.42	480.40
V	62485.00	-3.75	480.34	480.33
W	62495.00	-3.75	480.26	480.26
X	62505.00	-3.75	480.18	480.19
Y	62515.00	-3.75	480.10	480.11
Z	62525.00	-3.75	480.02	480.03
☉ Brg. E. Abut	62533.75	-3.75	479.95	479.95
Bk. E. Abut	62535.00	-3.75	479.94	479.94

☉ RDWY., P.G. & STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut	62245.00	0.00	480.00	480.00
☉ Brg. W. Abut	62246.25	0.00	480.01	480.01
A	62256.25	0.00	480.09	480.10
B	62266.25	0.00	480.17	480.18
C	62276.25	0.00	480.25	480.26
D	62286.25	0.00	480.33	480.33
E	62296.25	0.00	480.41	480.40
F	62306.25	0.00	480.49	480.47
G	62316.25	0.00	480.56	480.55
☉ Brg. Pier 1	62325.00	0.00	480.61	480.61
H	62335.00	0.00	480.66	480.70
I	62345.00	0.00	480.71	480.78
J	62355.00	0.00	480.74	480.86
K	62365.00	0.00	480.77	480.91
L	62375.00	0.00	480.79	480.95
M	62385.00	0.00	480.79	480.99
N	62395.00	0.00	480.79	480.99
O	62405.00	0.00	480.79	480.95
P	62415.00	0.00	480.77	480.91
Q	62425.00	0.00	480.74	480.86
R	62435.00	0.00	480.71	480.78
S	62445.00	0.00	480.66	480.70
☉ Brg. Pier 2	62455.00	0.00	480.61	480.61
T	62465.00	0.00	480.55	480.54
U	62475.00	0.00	480.48	480.46
V	62485.00	0.00	480.40	480.39
W	62495.00	0.00	480.32	480.32
X	62505.00	0.00	480.24	480.25
Y	62515.00	0.00	480.16	480.17
Z	62525.00	0.00	480.08	480.08
☉ Brg. E. Abut	62533.75	0.00	480.01	480.01
Bk. E. Abut	62535.00	0.00	480.00	480.00

DESIGNED	R.L. Tharp
CHECKED	N.R. Barnett
DRAWN	h.t. duong
CHECKED	RLT/NRB

April 9, 2007

EXAMINED *Thomas J. Demagala*  
ENGINEER OF BRIDGE DESIGN

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

**TOP OF SLAB ELEVATIONS**  
**F.A.P. RTE. 785 - SEC. 134-IBR-2**  
**MADISON COUNTY**  
**STATION 623+90.00**  
**STRUCTURE NO. 060-0240**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO. 7 23 SHEETS
FAP 785	134-IBR-2	MADISON	28	
FED. ROAD DIST. NO. 7	ILLINOIS		FED. AID PROJECT-	

Contract #76902

**GIRDER 4**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut	62245.00	3.75	479.94	479.94
⊙ Brg. W. Abut	62246.25	3.75	479.95	479.95
A	62256.25	3.75	480.03	480.04
B	62266.25	3.75	480.11	480.12
C	62276.25	3.75	480.19	480.20
D	62286.25	3.75	480.27	480.27
E	62296.25	3.75	480.35	480.34
F	62306.25	3.75	480.43	480.41
G	62316.25	3.75	480.50	480.49
⊙ Brg. Pier 1	62325.00	3.75	480.55	480.55
H	62335.00	3.75	480.60	480.64
I	62345.00	3.75	480.65	480.73
J	62355.00	3.75	480.68	480.80
K	62365.00	3.75	480.71	480.85
L	62375.00	3.75	480.73	480.90
M	62385.00	3.75	480.74	480.93
N	62395.00	3.75	480.74	480.93
O	62405.00	3.75	480.73	480.90
P	62415.00	3.75	480.71	480.85
Q	62425.00	3.75	480.68	480.80
R	62435.00	3.75	480.65	480.73
S	62445.00	3.75	480.60	480.64
⊙ Brg. Pier 2	62455.00	3.75	480.55	480.55
T	62465.00	3.75	480.49	480.48
U	62475.00	3.75	480.42	480.40
V	62485.00	3.75	480.34	480.33
W	62495.00	3.75	480.26	480.26
X	62505.00	3.75	480.18	480.19
Y	62515.00	3.75	480.11	480.11
Z	62525.00	3.75	480.02	480.03
⊙ Brg. E. Abut	62533.75	3.75	479.95	479.95
Bk. E. Abut	62535.00	3.75	479.94	479.94

**GIRDER 5**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut	62245.00	11.25	479.82	479.82
⊙ Brg. W. Abut	62246.25	11.25	479.83	479.83
A	62256.25	11.25	479.91	479.92
B	62266.25	11.25	479.99	480.00
C	62276.25	11.25	480.07	480.08
D	62286.25	11.25	480.15	480.15
E	62296.25	11.25	480.23	480.23
F	62306.25	11.25	480.31	480.30
G	62316.25	11.25	480.38	480.37
⊙ Brg. Pier 1	62325.00	11.25	480.43	480.43
H	62335.00	11.25	480.49	480.53
I	62345.00	11.25	480.53	480.61
J	62355.00	11.25	480.57	480.68
K	62365.00	11.25	480.59	480.74
L	62375.00	11.25	480.61	480.78
M	62385.00	11.25	480.62	480.81
N	62395.00	11.25	480.62	480.81
O	62405.00	11.25	480.61	480.78
P	62415.00	11.25	480.59	480.74
Q	62425.00	11.25	480.57	480.68
R	62435.00	11.25	480.53	480.61
S	62445.00	11.25	480.49	480.53
⊙ Brg. Pier 2	62455.00	11.25	480.43	480.43
T	62465.00	11.25	480.37	480.36
U	62475.00	11.25	480.30	480.29
V	62485.00	11.25	480.22	480.22
W	62495.00	11.25	480.14	480.14
X	62505.00	11.25	480.06	480.07
Y	62515.00	11.25	479.98	479.99
Z	62525.00	11.25	479.90	479.91
⊙ Brg. E. Abut	62533.75	11.25	479.83	479.83
Bk. E. Abut	62535.00	11.25	479.82	479.82

**GIRDER 6**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut	62245.00	18.75	479.67	479.67
⊙ Brg. W. Abut	62246.25	18.75	479.68	479.68
A	62256.25	18.75	479.76	479.77
B	62266.25	18.75	479.84	479.85
C	62276.25	18.75	479.92	479.93
D	62286.25	18.75	480.00	480.00
E	62296.25	18.75	480.08	480.07
F	62306.25	18.75	480.16	480.14
G	62316.25	18.75	480.23	480.22
⊙ Brg. Pier 1	62325.00	18.75	480.28	480.28
H	62335.00	18.75	480.34	480.37
I	62345.00	18.75	480.38	480.46
J	62355.00	18.75	480.41	480.53
K	62365.00	18.75	480.44	480.58
L	62375.00	18.75	480.46	480.63
M	62385.00	18.75	480.47	480.66
N	62395.00	18.75	480.47	480.66
O	62405.00	18.75	480.46	480.63
P	62415.00	18.75	480.44	480.58
Q	62425.00	18.75	480.41	480.53
R	62435.00	18.75	480.38	480.46
S	62445.00	18.75	480.34	480.37
⊙ Brg. Pier 2	62455.00	18.75	480.28	480.28
T	62465.00	18.75	480.22	480.21
U	62475.00	18.75	480.15	480.13
V	62485.00	18.75	480.07	480.06
W	62495.00	18.75	479.99	479.99
X	62505.00	18.75	479.91	479.92
Y	62515.00	18.75	479.83	479.84
Z	62525.00	18.75	479.75	479.76
⊙ Brg. E. Abut	62533.75	18.75	479.68	479.68
Bk. E. Abut	62535.00	18.75	479.67	479.67

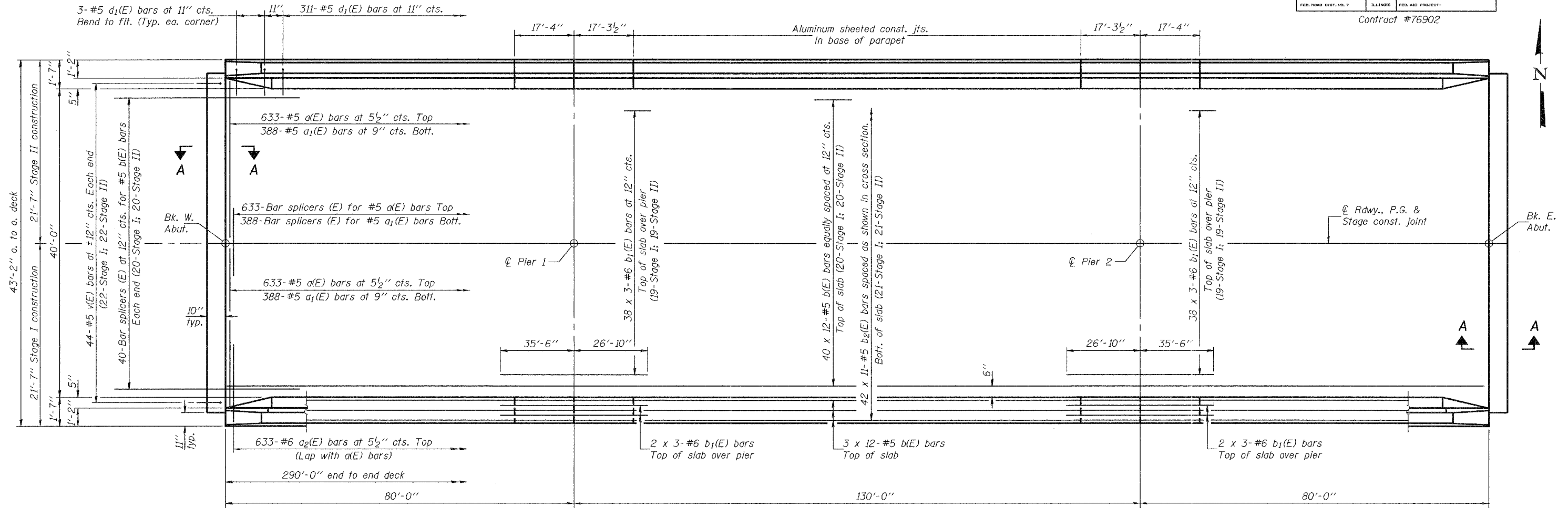
DESIGNED	R.L. Thorp
CHECKED	N.R. Barnett
DRAWN	h.t. duong
CHECKED	RLT/NRB

April 9, 2007  
 EXAMINED *Thomas J. Demagala*  
 ENGINEER OF BRIDGES  
 PASSED *Ralph E. Anderson*  
 ENGINEER OF BRIDGES AND STRUCTURES

**TOP OF SLAB ELEVATIONS**  
**F.A.P. RTE. 785 - SEC. 134-IBR-2**  
**MADISON COUNTY**  
**STATION 623+90.00**  
**STRUCTURE NO. 060-0240**

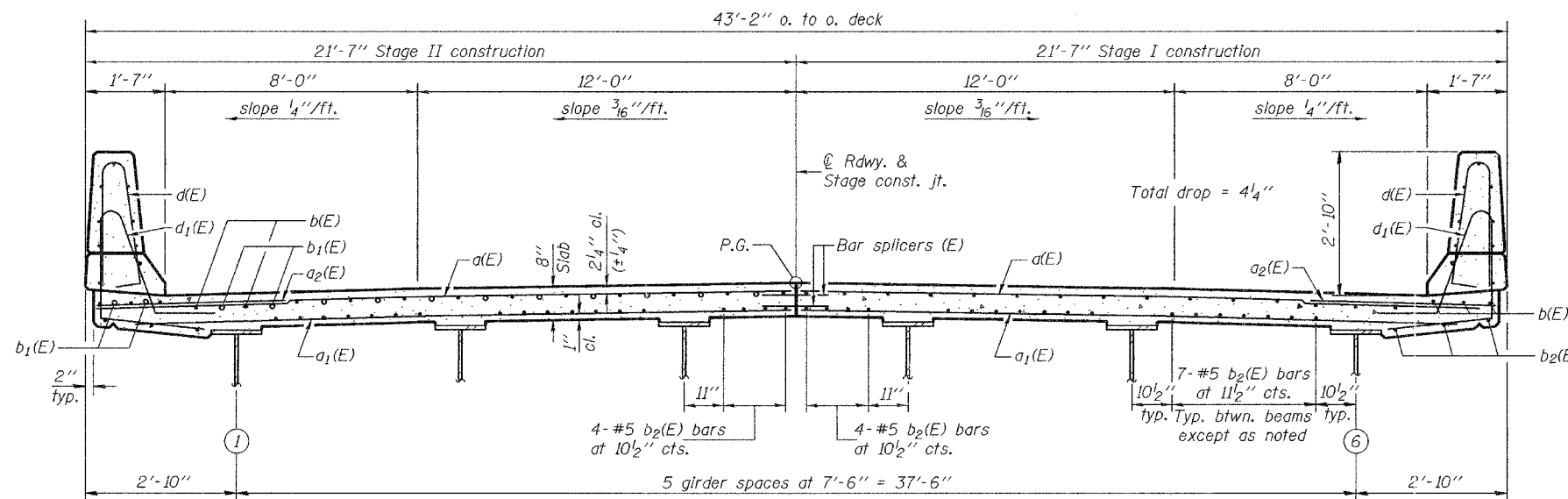
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 8
FAP 785	134-IBR-2	MADISON	29	56	23 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-	Contract #76902		



PLAN

Notes: See sheet 9 of 23 for superstructure details, parapet reinforcement and Bill of Material.  
Bars indicated thus 38 x 3-#5 etc. indicates 38 lines of bars with 3 lengths per line.  
See sheet 10 of 23 for Section A-A and diaphragm details.  
See sheet 18 of 23 for bar splicer details.  
See sheet 9 of 23 for details of v(E) bars.



CROSS SECTION  
(Looking east)

MIN. BAR LAPS

#5 bar = 2'-2"  
#6 bar = 2'-7"

DESIGNED	R.L. Tharp
CHECKED	N.R. Barnett
DRAWN	h.t. duong
CHECKED	RLT/NRB

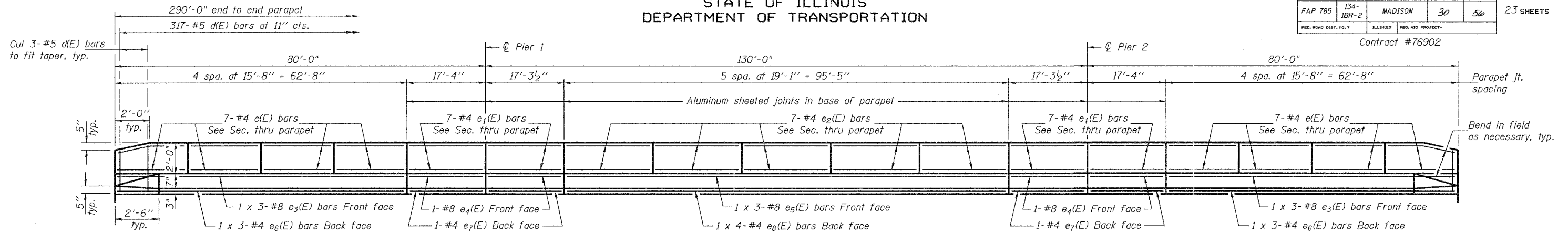
April 9, 2007  
EXAMINED *Thomas Demagalli*  
PASSED *Ralph E. Anderson*  
ENGINEER OF BRIDGES AND STRUCTURES

SUPERSTRUCTURE  
F.A.P. RTE. 785 - SEC. 134-IBR-2  
MADISON COUNTY  
STATION 623+90.00  
STRUCTURE NO. 060-0240

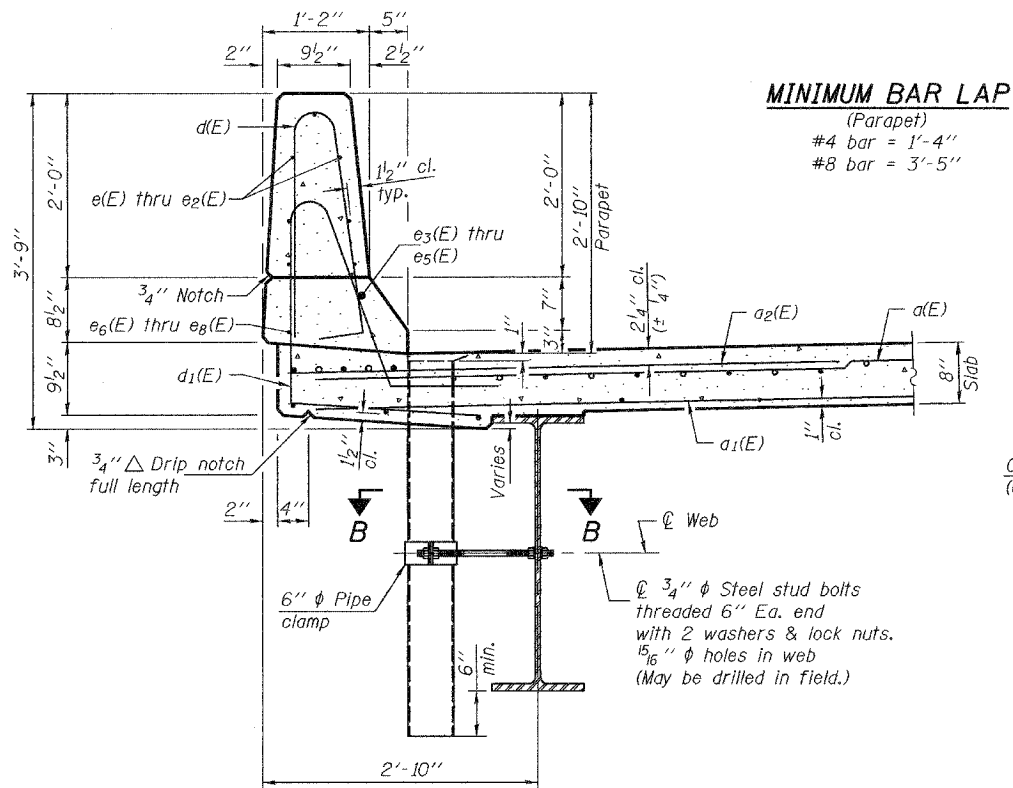
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
FAP 785	134-IBR-2	MADISON	30	56
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 9  
23 SHEETS

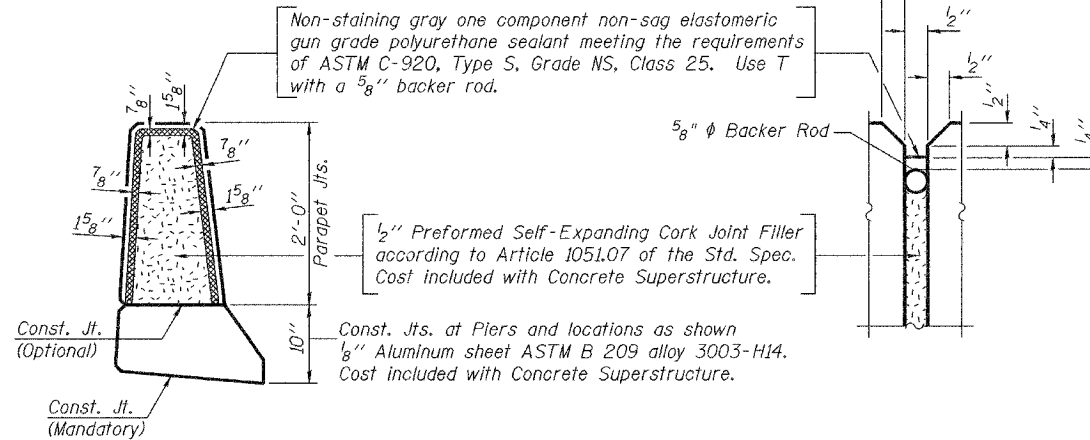


**INSIDE ELEVATION OF PARAPET**  
(Looking north)



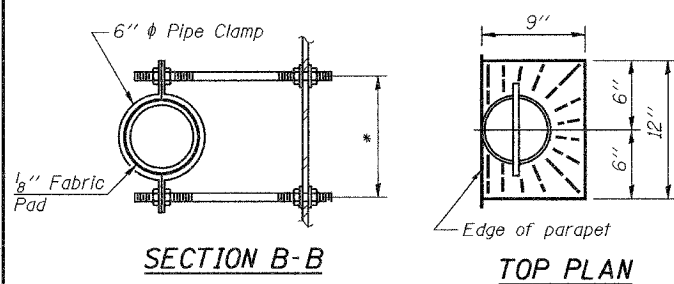
**SECTION THRU PARAPET**

**MINIMUM BAR LAP**  
(Parapet)  
#4 bar = 1'-4"  
#8 bar = 3'-5"



**PARAPET JOINT DETAILS**

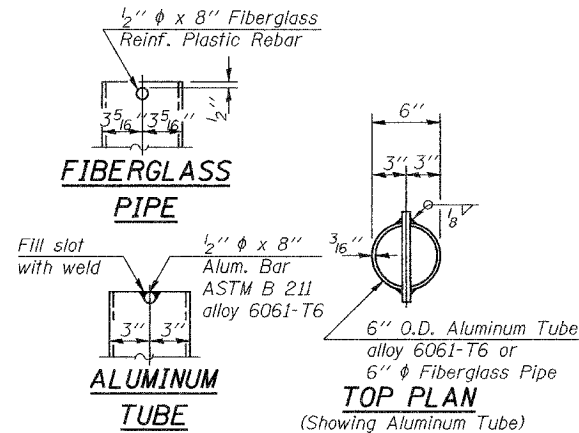
**Notes:**  
The exterior surfaces of the floor drains shall be painted with the finish coat as specified in the special provisions for Cleaning and Painting New Metal Structures. The exterior surfaces of the drains shall be cleaned according to Steel Structures Painting Council's Spec. SSPC-SPI prior to painting.  
Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.



**SECTION B-B**

**TOP PLAN**

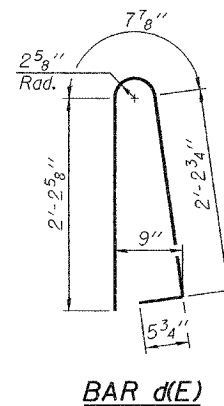
\*Dimension as required by Pipe Clamp



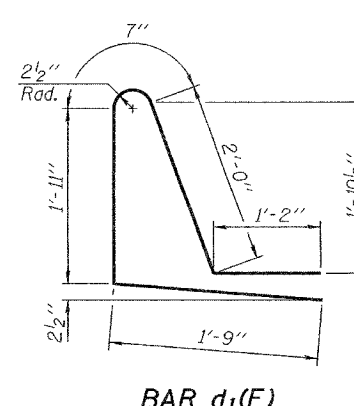
**FIBERGLASS PIPE**

**ALUMINUM TUBE**

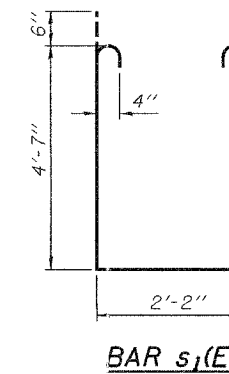
**TOP PLAN**  
(Showing Aluminum Tube)



**BAR d(E)**

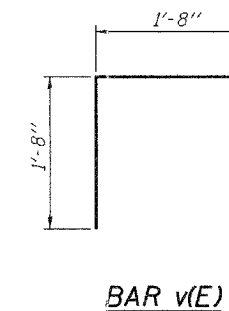


**BAR d1(E)**



**BAR s(E)**

**BAR s1(E)**



**BAR v(E)**

**SUPERSTRUCTURE**  
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
d(E)	1266	#5	21'-1"	—
a1(E)	776	#5	20'-3"	—
a2(E)	1266	#6	6'-0"	—
b(E)	552	#5	26'-2"	—
b1(E)	252	#6	22'-6"	—
b2(E)	462	#5	28'-4"	—
d(E)	634	#5	5'-7"	—
d1(E)	634	#5	7'-5"	—
e(E)	112	#4	15'-4"	—
e1(E)	56	#4	17'-0"	—
e2(E)	70	#4	18'-9"	—
e3(E)	12	#8	23'-1"	—
e4(E)	8	#8	17'-0"	—
e5(E)	6	#8	34'-0"	—
e6(E)	12	#4	21'-9"	—
e7(E)	8	#4	17'-0"	—
e8(E)	8	#4	24'-10"	—
m(E)	8	#6	20'-4"	—
m1(E)	12	#6	21'-3"	—
m2(E)	16	#6	10'-1"	—
m3(E)	8	#6	7'-2"	—
m4(E)	4	#6	2'-6"	—
m5(E)	4	#6	3'-5"	—
m6(E)	8	#6	7'-9"	—
s(E)	96	#5	6'-9"	—
s1(E)	88	#4	12'-4"	—
v(E)	88	#5	3'-4"	—
Reinforcement Bars, Epoxy Coated		Pound	108960	
Concrete Superstructure		Cu. Yds.	423.0	

Bars indicated thus 1 x 3-#4 etc. indicates 1 line of bars with 3 lengths per line.

**SUPERSTRUCTURE DETAILS**  
**F.A.P. RTE. 785 - SEC. 134-IBR-2**  
**MADISON COUNTY**  
**STATION 623+90.00**  
**STRUCTURE NO. 060-0240**

DESIGNED	R.L. Tharp
CHECKED	N.R. Barnett
DRAWN	h.t. duong
CHECKED	RLT/NRB

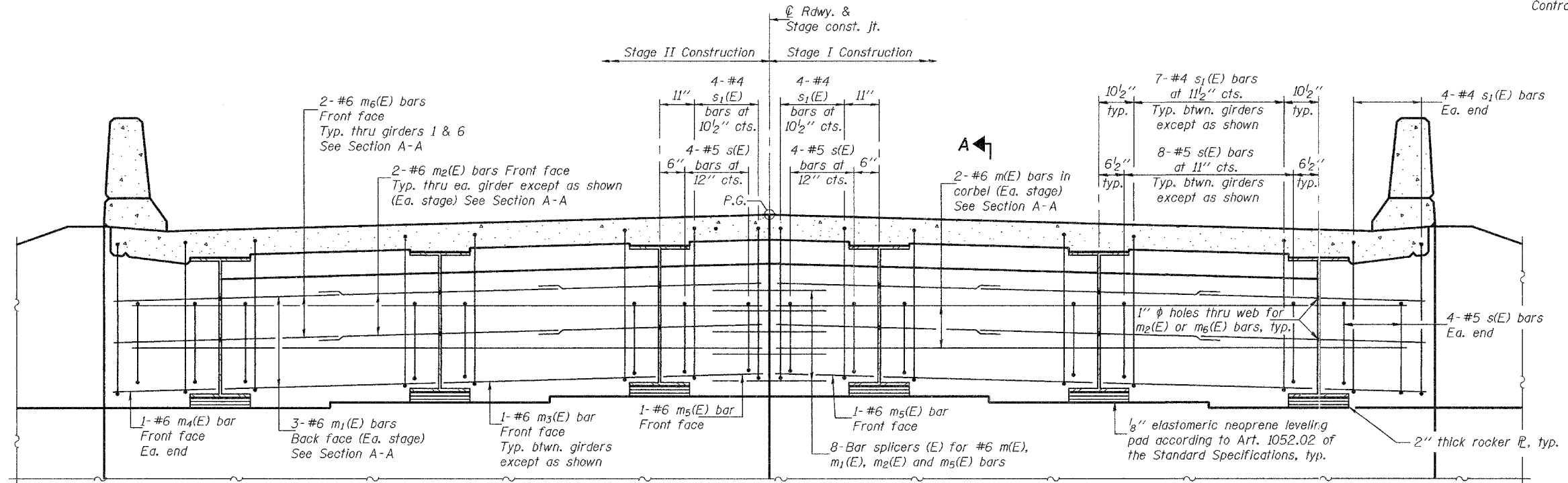
EXAMINED	Thomas J. Demagala	April 9, 2007
PASSED	Ralph E. Anderson	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 785	134-IBR-2	MADISON	31	50
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 10  
23 SHEETS

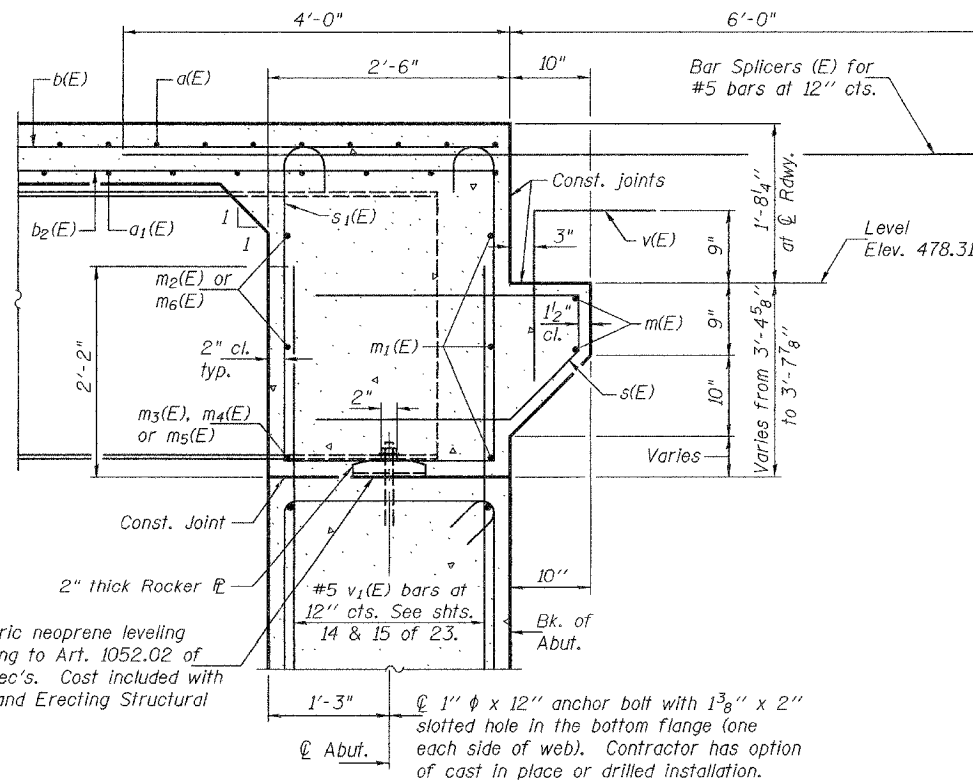
Contract #76902



**DIAPHRAGM ELEVATION AT EAST ABUTMENT**

(Looking East - West abutment similar)

Notes: Reinforcement bars in diaphragm are billed with superstructure on sheet 9 of 23.  
Concrete in diaphragm is included with Concrete Superstructure on sheet 9 of 23.  
For details of bars s(E) & s1(E) see sheet 9 of 23.  
See sheet 12 of 23 for holes thru web for m2(E) or m6(E) bars.  
For bar splicer (E) details see sheet 18 of 23.



**MIN. BAR LAP**  
#6 bar = 2'-7"

DESIGNED	R.L. Tharp
CHECKED	N.R. Barnett
DRAWN	h.t. duong
CHECKED	RLT/NRB

April 9, 2007  
EXAMINED *Thomas J. Demagala*  
ENGINEER OF BRIDGE DESIGN  
PASSED *Ralph E. Anderson*  
ENGINEER OF BRIDGES AND STRUCTURES

**SECTION A-A**

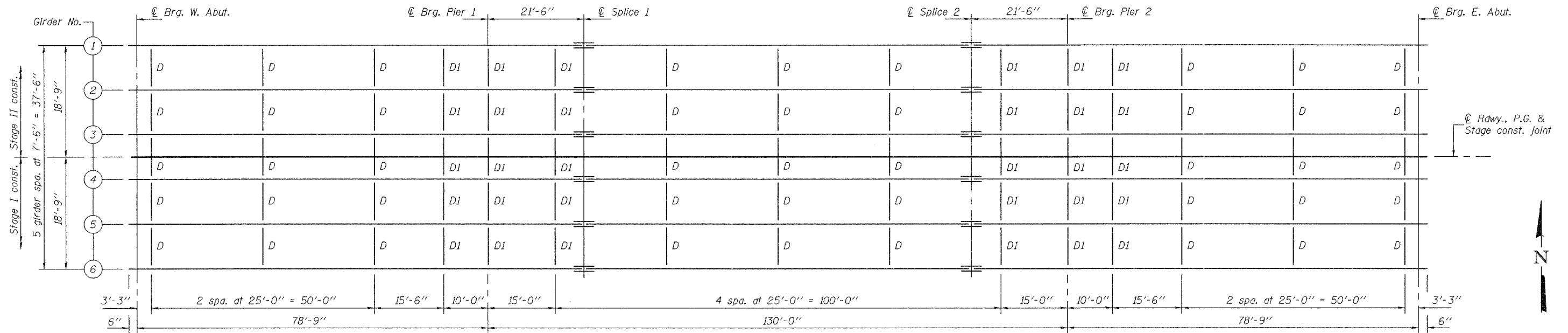
**DIAPHRAGM DETAILS**  
F.A.P. RTE. 785 - SEC. 134-IBR-2  
MADISON COUNTY  
STATION 623+90.00  
STRUCTURE NO. 060-0240

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

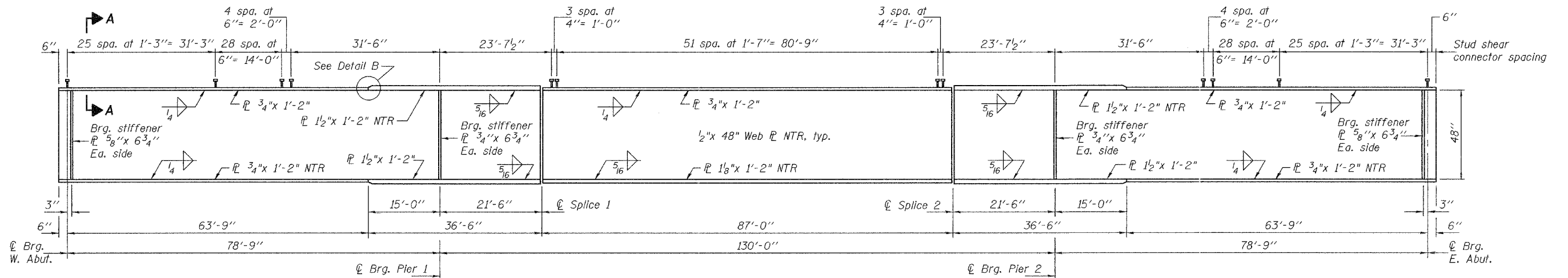
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 785	134-1BR-2	MADISON	32	50
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

Contract #76902

SHEET NO. 11  
23 SHEETS



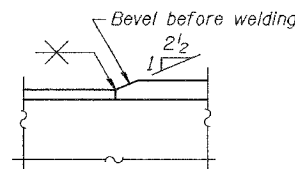
PLAN



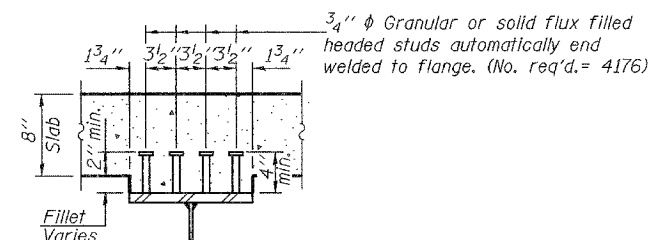
GIRDER ELEVATION

All plates and bearing stiffeners shall be AASHTO M 270 Grade 50.

Note: Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.



DETAIL B



SECTION A-A

DESIGNED	R.L. Thorp
CHECKED	N.R. Barnett
DRAWN	h.t. duong
CHECKED	RLT/NRB

April 9, 2007  
EXAMINED *Thomas J. Donagale*  
PASSED *Ralph E. Anderson*  
ENGINEER OF BRIDGES AND STRUCTURES

STRUCTURAL STEEL  
F.A.P. RTE. 785 - SEC. 134-1BR-2  
MADISON COUNTY  
STATION 623+90.00  
STRUCTURE NO. 060-0240



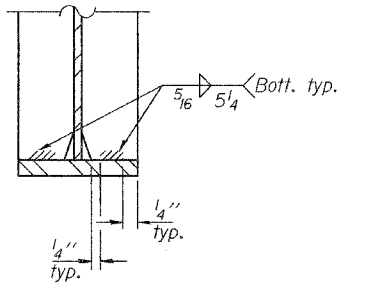
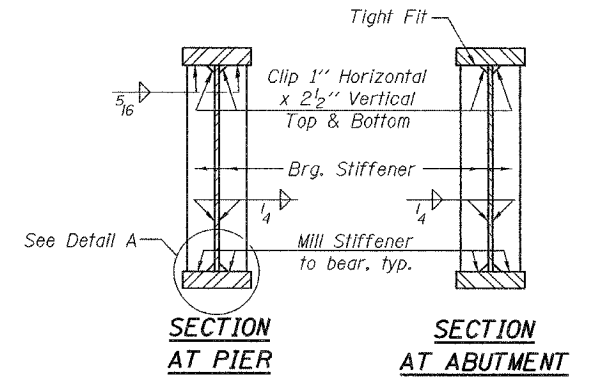
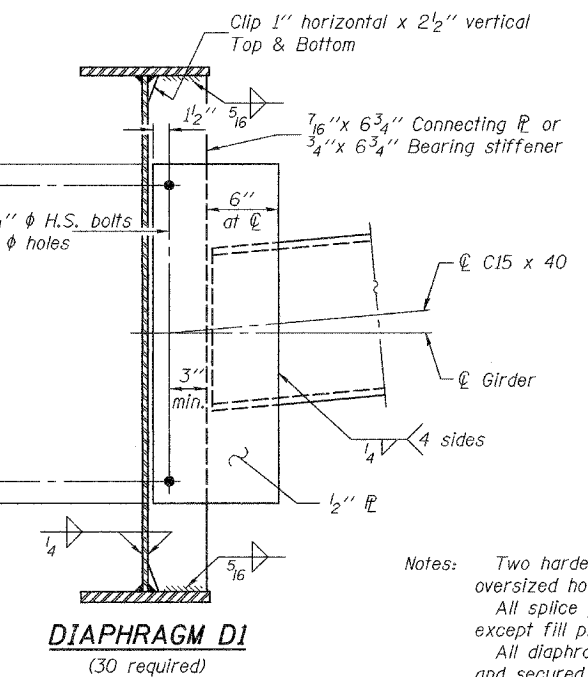
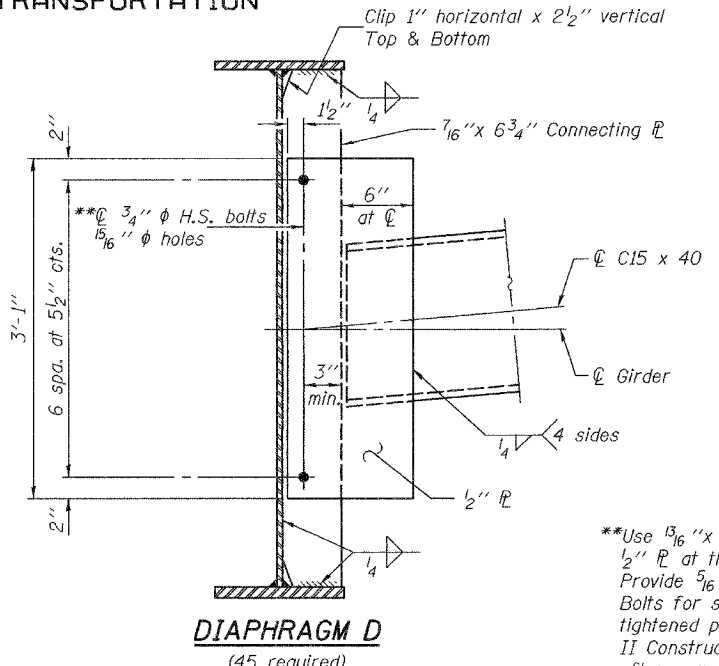
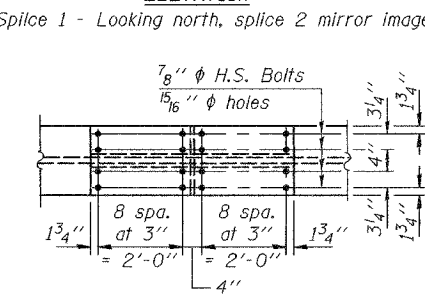
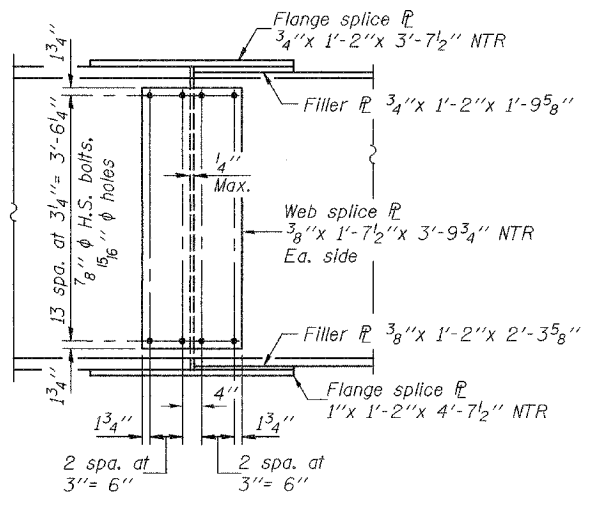
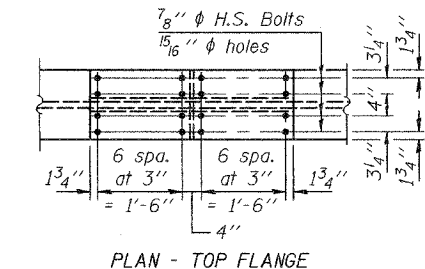
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	DATE	SHEET	SHEET NO. 12
FAP 785	134-IBR-2	MADISON	33	56	23 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #76902

		0.4 Sp. 1 or 0.6 Sp. 3	Pier 1 or Pier 2	0.5 Sp. 2
$I_s$	(in <sup>4</sup> )	17086	30344	20010
$I_c$ (n)	(in <sup>4</sup> )	42576		52249
$I_c$ (3n)	(in <sup>4</sup> )	31800		38109
$S_s$	(in <sup>3</sup> )	690	1190	889
$S_c$ (n)	(in <sup>3</sup> )	976		1237
$S_c$ (3n)	(in <sup>3</sup> )	890		1133
DC1	(k/')	0.944	1.031	0.966
M DC1	(k)	191	1289	766
DC2	(k/')	0.150	0.150	0.150
M DC2	(k)	48	159	158
DW	(k/')	0.375	0.375	0.375
M DW	(k)	120	398	394
M <sub>±</sub> + Imp	(k)	1022	1221	1567
M <sub>u</sub> (Strength I)	(k)	2267	4544	4488
φ <sub>r</sub> M <sub>n</sub>	(k)	5129		6118
f <sub>s</sub> DC1	(ksi)	3.3	13.0	10.3
f <sub>s</sub> DC2	(ksi)	0.6	1.6	1.7
f <sub>s</sub> DW	(ksi)	1.6	4.0	4.2
f <sub>s</sub> 1.3(k+I)	(ksi)	16.3	16.0	19.8
f <sub>s</sub> (Service II)	(ksi)	21.8	34.6	36.0
f <sub>s</sub> (Total)(Strength I)	(ksi)		45.8	
V <sub>r</sub>	(k)	28.5		25.6

	Abuts.	Piers
R DC1	(k) 20.9	118.9
R DC2	(k) 3.9	17.7
R DW	(k) 9.7	44.2
R <sub>±</sub> + Imp	(k) 81.7	159.5
R Total	(k) 116.2	340.3

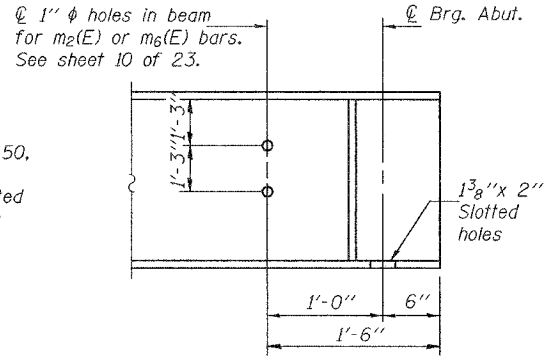


\*\*Use 1 5/16 inch x 1 1/2 inch vertical slotted holes in 1/2 inch plate at the south side of Girder 3 only. Provide 5/16 inch plate washers for slotted holes. Bolts for slotted holes shall be finger-tightened prior to the deck pour for Stage II Construction, and then be fully tightened after completion of the deck pour for Stage II Construction.

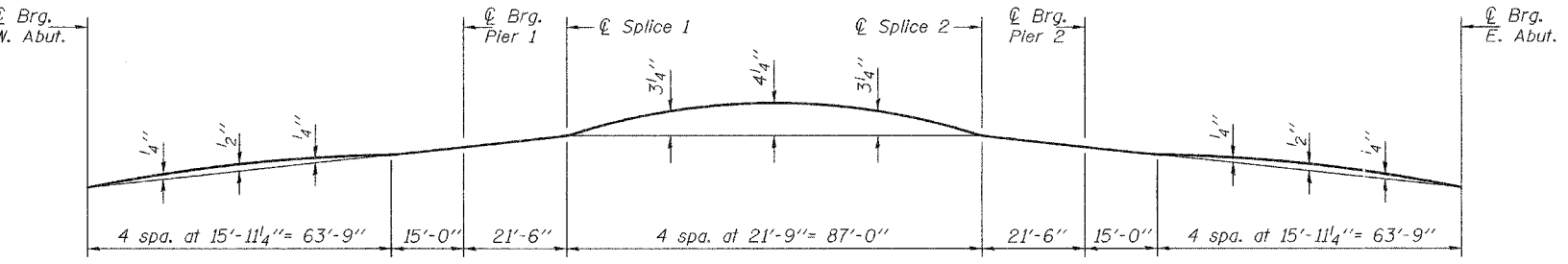
\*TOP OF WEB ELEVATIONS

Location	Brg. W. Abut.	Brg. Pier 1	Splice 1	Splice 2	Brg. Pier 2	Brg. E. Abut.
Girder 1	478.89	479.41	479.55	479.55	479.41	478.89
Girder 2	479.04	479.56	479.71	479.71	479.56	479.04
Girder 3	479.16	479.68	479.82	479.82	479.68	479.16
Girder 4	479.16	479.68	479.82	479.82	479.68	479.16
Girder 5	479.04	479.56	479.71	479.71	479.56	479.04
Girder 6	478.89	479.41	479.55	479.55	479.41	478.89

\*For fabrication use only.



TYPICAL END OF GIRDER ELEVATION



CAMBER DIAGRAM

STRUCTURAL STEEL DETAILS  
F.A.P. RTE. 785 - SEC. 134-IBR-2  
MADISON COUNTY  
STATION 623+90.00  
STRUCTURE NO. 060-0240

$I_s, S_s$ : Non-composite moment of inertia and section modulus of the steel section used for computing  $f_s$  (Total-Strength I, and Service II) due to non-composite dead loads (in<sup>4</sup> and in<sup>3</sup>).

$I_c(n), S_c(n)$ : Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing  $f_s$  (Total-Strength I, and Service II) due to short-term composite live loads (in<sup>4</sup> and in<sup>3</sup>).

$I_c(3n), S_c(3n)$ : Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing  $f_s$  (Total-Strength I, and Service II) due to long-term composite (superimposed) dead loads (in<sup>4</sup> and in<sup>3</sup>).

DC1: Un-factored non-composite dead load (kips/ft.).

MDC1: Un-factored moment due to non-composite dead load (kip-ft.).

DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).

MDC2: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).

DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).

MDW: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).

M<sub>±</sub> + Imp: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

M<sub>u</sub> (Strength I): Factored design moment (kip-ft.).

1.25 (MDC1 + MDC2) + 1.5 MDW + 1.75 M<sub>±</sub> + Imp

φ<sub>r</sub> M<sub>n</sub>: Compact composite positive moment capacity computed according to Article 6.10.7.1 (kip-ft.).

f<sub>s</sub> (Service II): Sum of stresses as computed from the moments below (ksi).

MDC1 + MDC2 + MDW + 1.3 M<sub>±</sub> + Imp

f<sub>s</sub> (Total)(Strength I): Sum of stresses as computed from the moments below on non-compact section (ksi).

1.25 (MDC1 + MDC2) + 1.5 MDW + 1.75 M<sub>±</sub> + Imp

V<sub>r</sub>: Factored shear range computed according to Article 6.10.10.

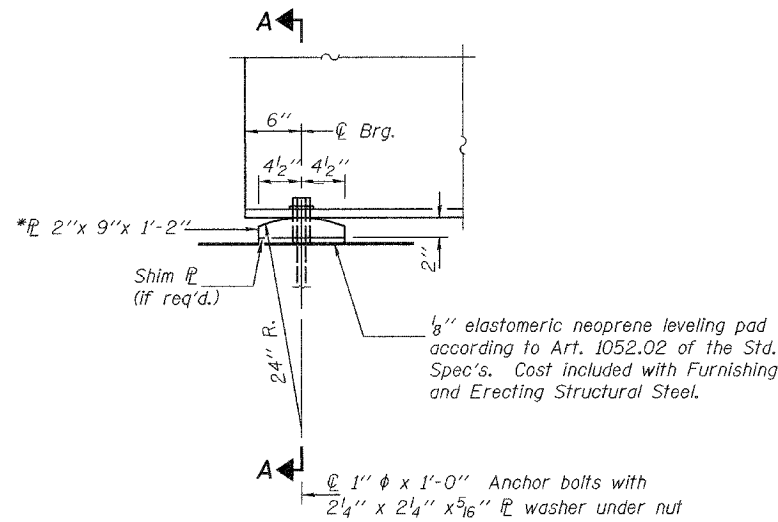
Notes: Two hardened washers required for each set of oversized holes.  
All splice plates shall be AASHTO M 270, Grade 50, except fill plates.  
All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

DESIGNED	R.L. Tharp
CHECKED	N.R. Barnett
DRAWN	h.t. duong
CHECKED	RLT/NRB

APR 9 2007  
EXAMINED Thomas J. Demagallibi  
PASSED Robert E. Anderson  
ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	PROJECT	SHEET NO. 13 23 SHEETS
FAP 785	134- IBR-2	MADISON	34	56	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-	Contract #76902		

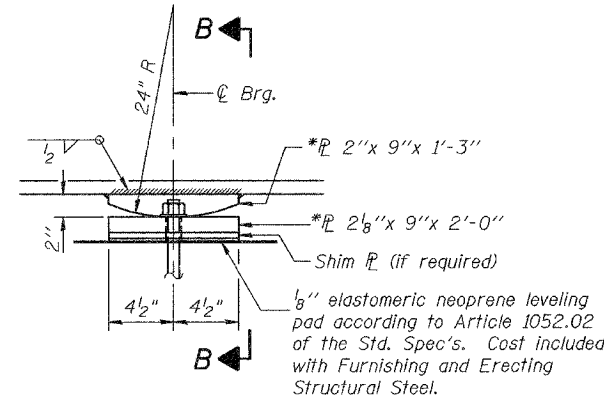


ELEVATION AT ABUTMENTS

**FIXED BEARING**  
(12 Required)

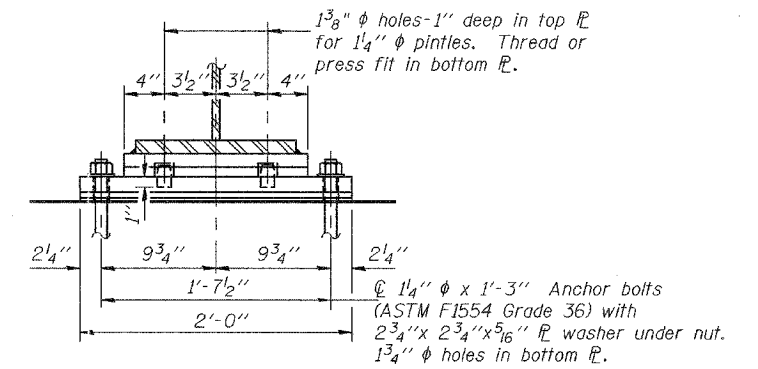
SECTION A-A

\*AASHTO M270, Grade 50.

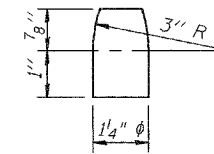


ELEVATION AT PIERS

**FIXED BEARING**  
(12 Required)



SECTION B-B



\*PINTLE

Notes: Anchor bolts shall be ASTM F1554 all-thread (or an Engineer approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy = 36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554. Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place. Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications. Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

**BILL OF MATERIAL**

Item	Unit	Total
Anchor Bolts, 1" φ	Each	24
Anchor Bolts, 1 1/4" φ	Each	24

DESIGNED	R.L. Tharp
CHECKED	N.R. Barnett
DRAWN	h.t. duong
CHECKED	RLT/NRB

April 9, 2007

EXAMINED *Thomas J. Donagale*  
ENGINEER OF BRIDGE DESIGN

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

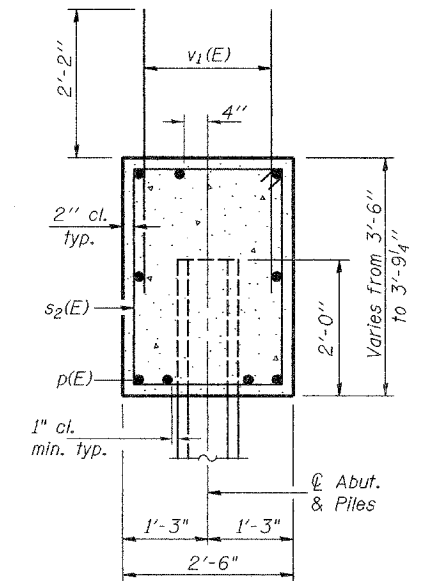
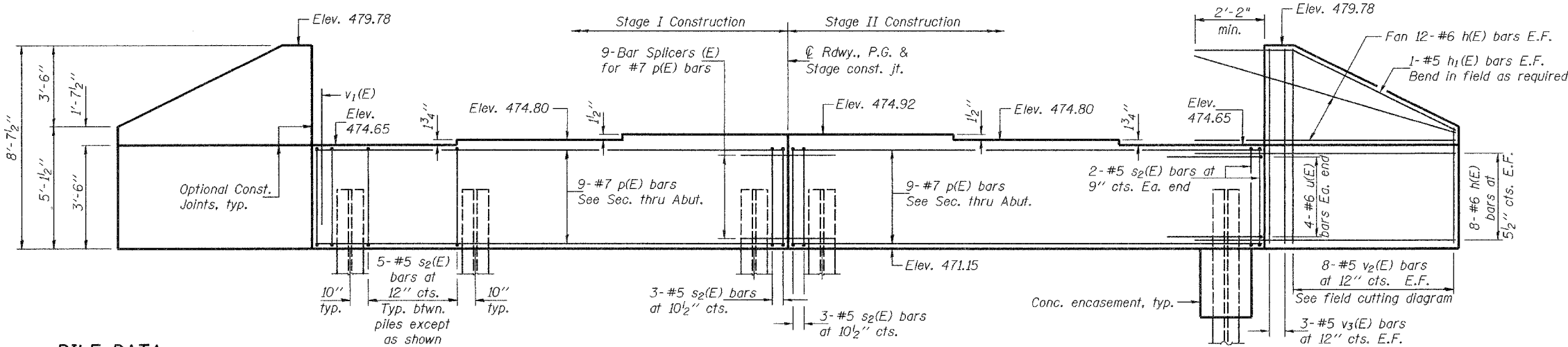
**BEARING DETAILS**  
F.A.P. RTE. 785 - SEC. 134-IBR-2  
MADISON COUNTY  
STATION 623+90.00  
STRUCTURE NO. 060-0240

Notes: Pour steps monolithically with cap.  
 For bar splicer assembly details, see sheet 18 of 23.  
 For details of piles, see sheet 19 of 23.  
 If h(E) bars interfere with HP plies, cut h(E) to fit.

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

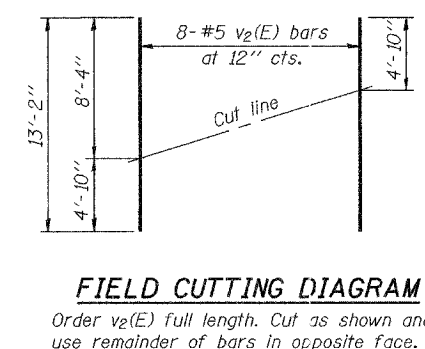
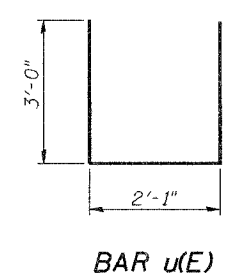
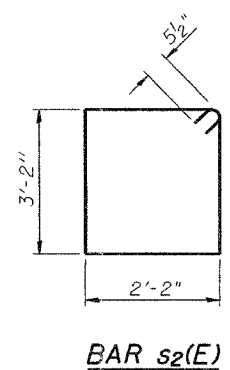
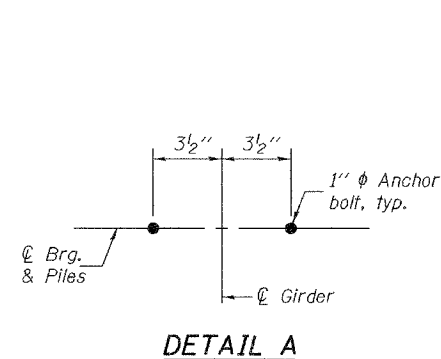
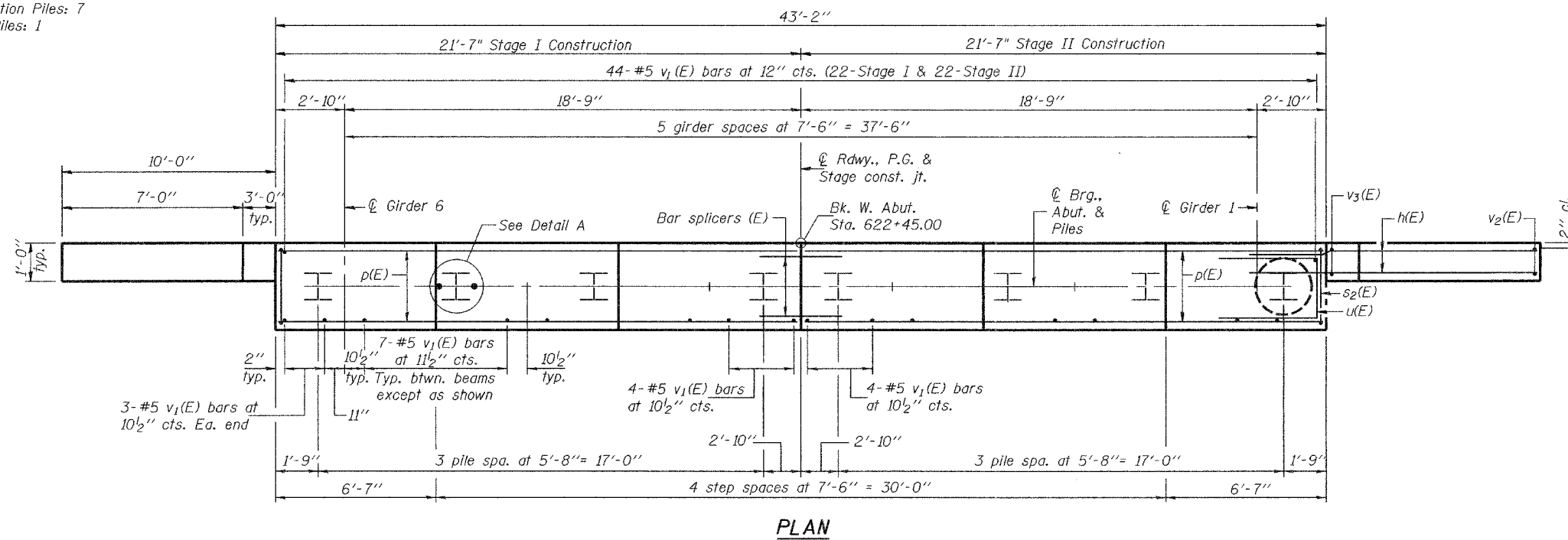
ROUTE NO.	SECTION	COUNTY	STATION	SHEET NO.	SHEET NO. 14 23 SHEETS
FAP 785	134-1BR-2	MADISON	35	56	
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT	

Contract #76902



**PILE DATA**

Type: Steel HP12x63 with pile shoes  
 Nominal Required Bearing: 280 Kips  
 Factored Resistance Available: 140 Kips  
 Estimated Pile Length: 55'  
 No. Production Piles: 7  
 No. Test Piles: 1



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	80	#6	12'-0"	—
h <sub>1</sub> (E)	4	#5	13'-0"	—
p(E)	18	#7	21'-3"	—
s <sub>2</sub> (E)	40	#5	11'-7"	□
u(E)	8	#6	8'-1"	—
v <sub>1</sub> (E)	86	#5	4'-4"	—
v <sub>2</sub> (E)	16	#5	13'-2"	—
v <sub>3</sub> (E)	12	#5	8'-4"	—
Concrete Structures		Cu. Yd.	20.0	
Reinforcement Bars, Epoxy Coated		Pound	3570	
Structure Excavation		Cu. Yd.	104	
Furnishing Steel Piles HP12x63		Foot	385	
Driving Piles		Foot	385	
Test Pile Steel HP12x63		Each	1	
Pile Shoes		Each	8	
Concrete Encasement		Cu. Yd.	2.7	

DESIGNED	R.L. Tharp
CHECKED	N.R. Barnett
DRAWN	h.t. duong
CHECKED	RLT/NRB

April 9, 2007  
 EXAMINED *Thomas J. Damagala*  
 ENGINEER OF BRIDGE DESIGN  
 PASSED *Ralph E. Anderson*  
 ENGINEER OF BRIDGES AND STRUCTURES

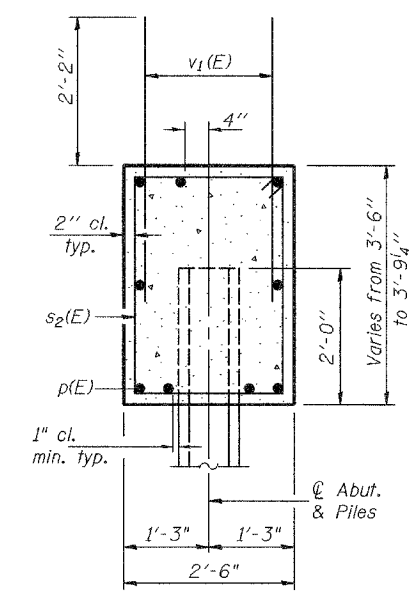
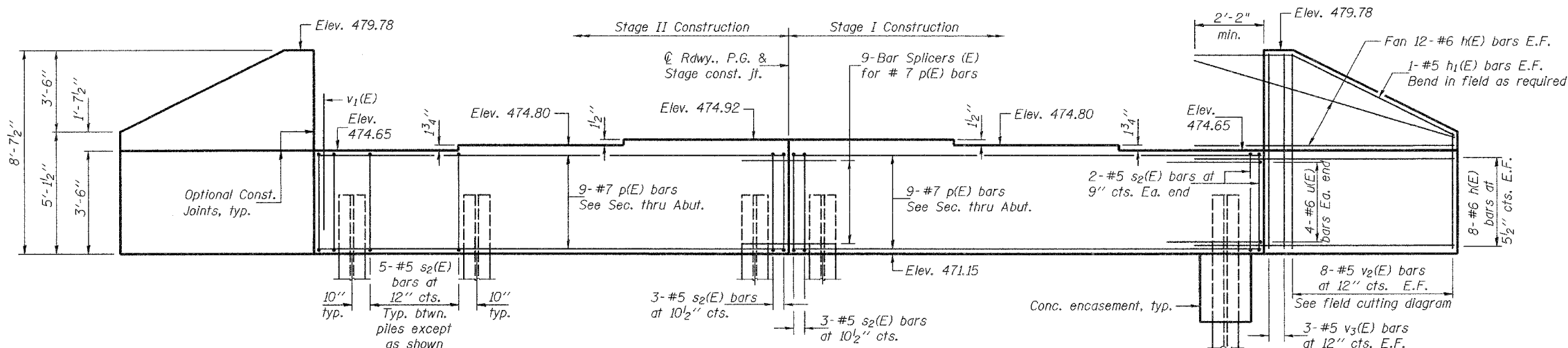
**WEST ABUTMENT**  
 F.A.P. RTE. 785 - SEC. 134-1BR-2  
 MADISON COUNTY  
 STATION 623+90.00  
 STRUCTURE NO. 060-0240

Notes: Pour steps monolithically with cap.  
 For bar splicer assembly details, see sheet 18 of 23.  
 For details of piles, see sheet 19 of 23.  
 If h(E) bars interfere with HP plies, cut h(E) to fit.

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

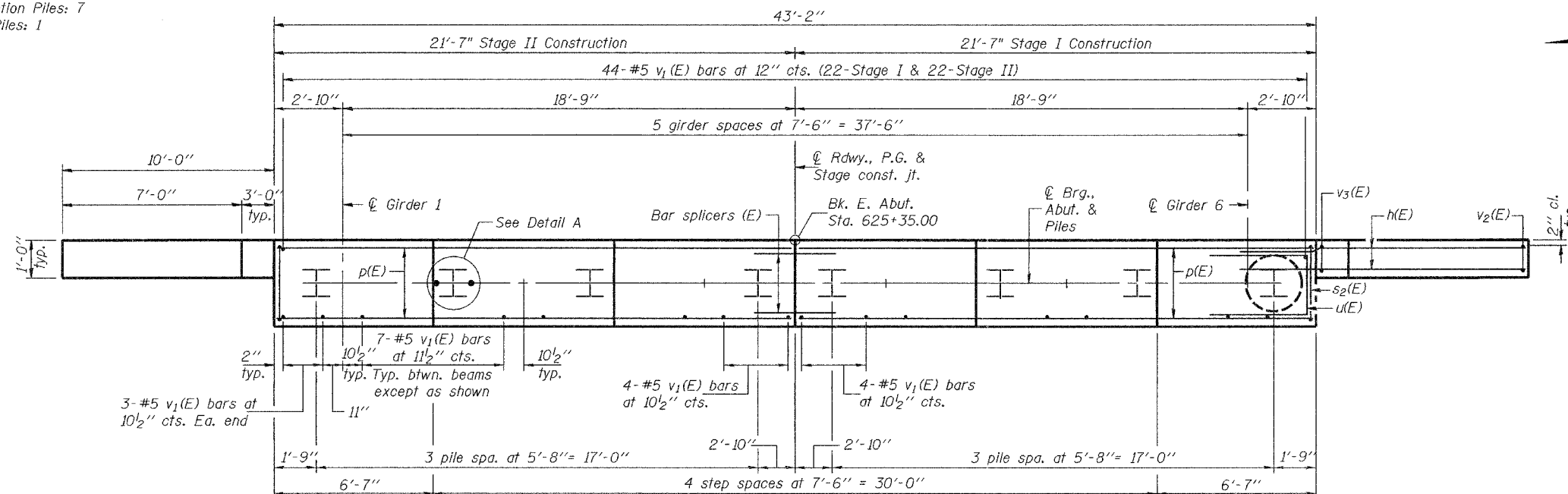
ROUTE NO.	SECTION	COUNTY	SHEETS	NO.	SHEET NO. 15
FAP 785	134-IBR-2	MADISON	36	56	23 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	TITLE AND PROJECT			

Contract #76902



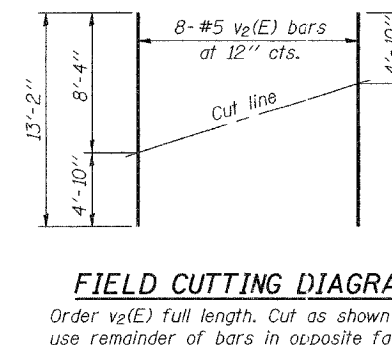
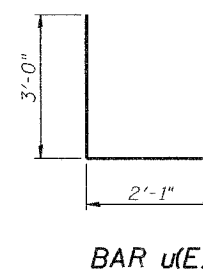
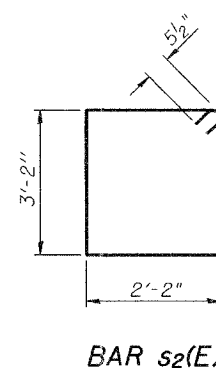
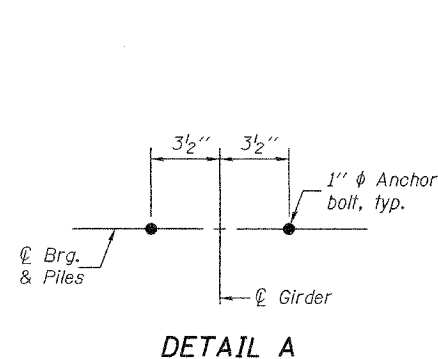
**PILE DATA**

Type: Steel HP12x63 with pile shoes  
 Nominal Required Bearing: 280 Kips  
 Factored Resistance Available: 140 Kips  
 Estimated Pile Length: 63'  
 No. Production Piles: 7  
 No. Test Piles: 1



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	80	#6	12'-0"	
h <sub>1</sub> (E)	4	#5	13'-0"	
p(E)	18	#7	21'-3"	
s <sub>2</sub> (E)	40	#5	11'-7"	
u(E)	8	#6	8'-1"	
v <sub>1</sub> (E)	86	#5	4'-4"	
v <sub>2</sub> (E)	16	#5	13'-2"	
v <sub>3</sub> (E)	12	#5	8'-4"	
Concrete Structures		Cu. Yd.	20.0	
Reinforcement Bars, Epoxy Coated		Pound	3570	
Structure Excavation		Cu. Yd.	104	
Furnishing Steel Piles HP12x63		Foot	441	
Driving Piles		Foot	441	
Test Pile Steel HP12x63		Each	1	
Pile Shoes		Each	8	
Concrete Encasement		Cu. Yd.	2.7	



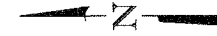
DESIGNED	R.L. Thorp
CHECKED	N.R. Barnett
DRAWN	h.t. duong
CHECKED	RLT/NRB

APR 9 2007  
 EXAMINED *Thomas J. Demagala*  
 ENGINEER OF BRIDGE DESIGN  
 PASSED *Ralph E. Anderson*  
 ENGINEER OF BRIDGES AND STRUCTURES

**EAST ABUTMENT**  
**F.A.P. RTE. 785 - SEC. 134-IBR-2**  
**MADISON COUNTY**  
**STATION 623+90.00**  
**STRUCTURE NO. 060-0240**

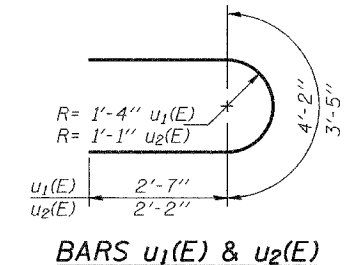
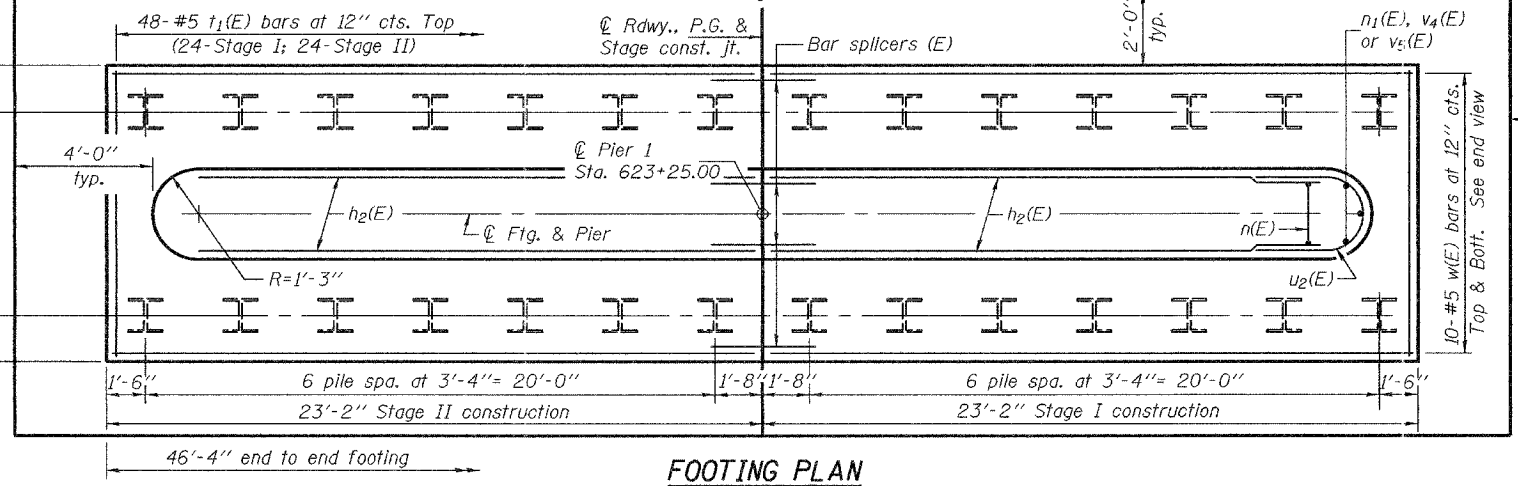
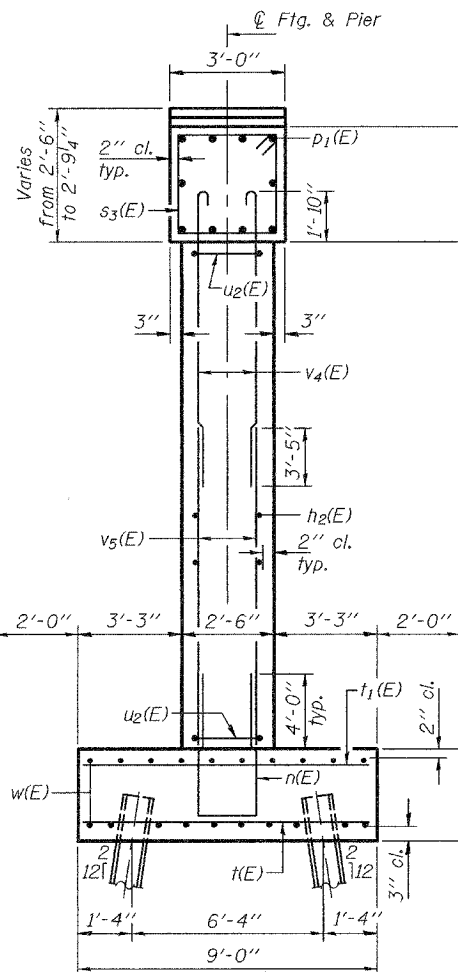
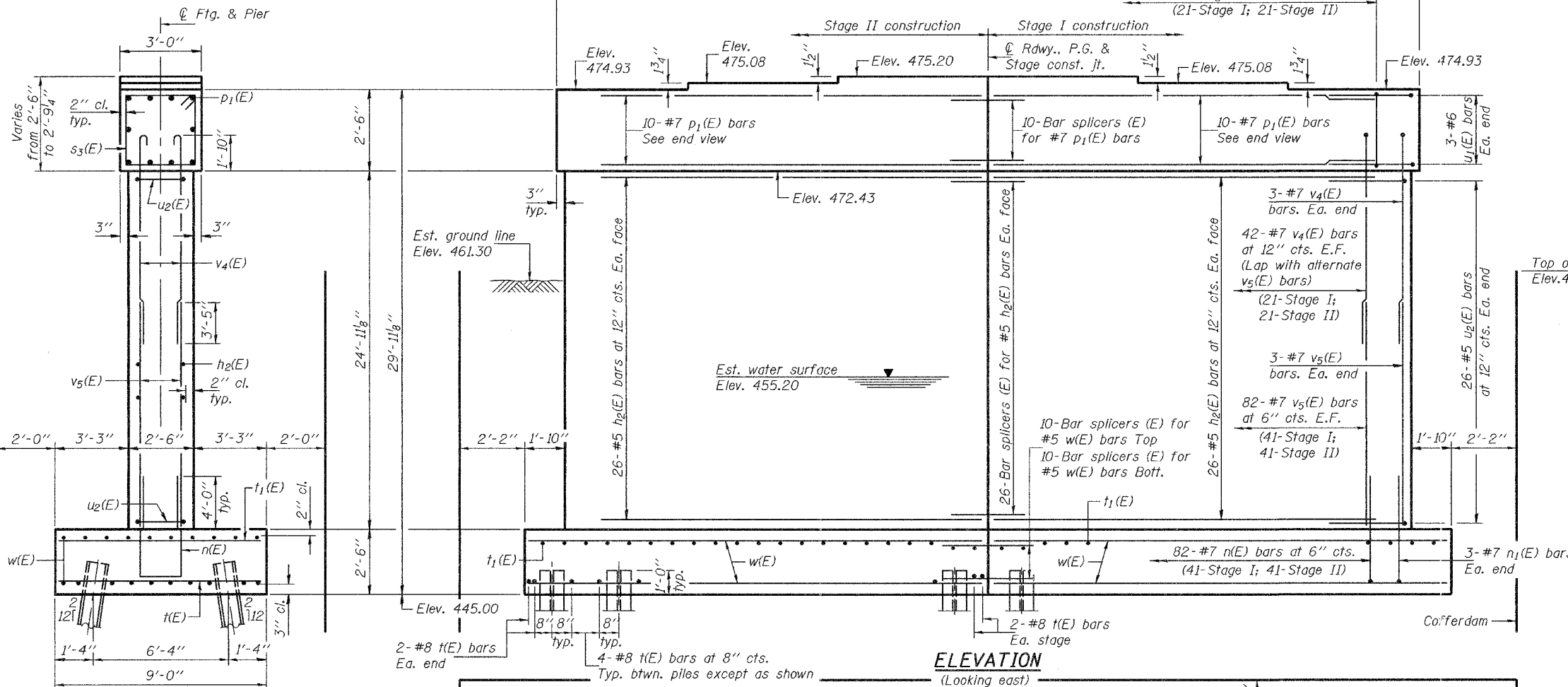
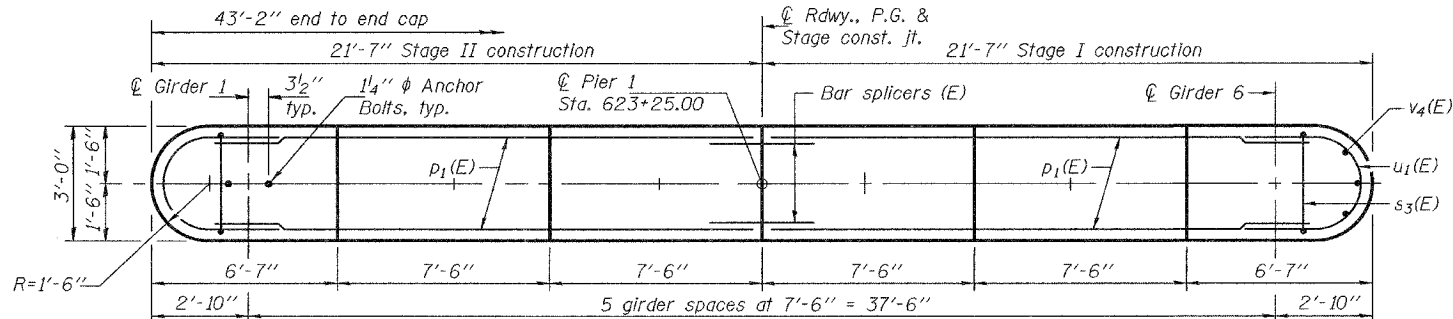
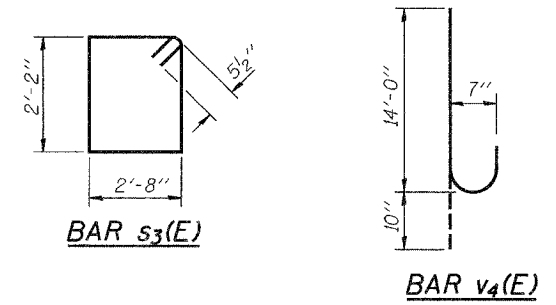
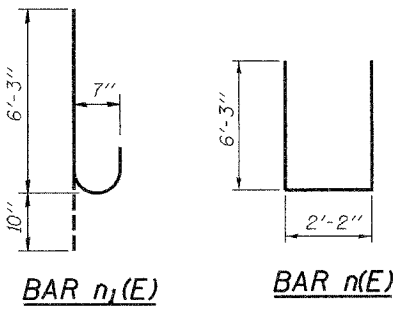
Notes: Space reinforcement in cap to miss anchor bolts.  
 Pour steps monolithically with cap.  
 For bar splicer details, see sheet 18 of 23.  
 For details of piles, see sheet 19 of 23.

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION



ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
FAP 785	134-IBR-2	MADISON	37	50
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

Contract #76902



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
$h_2(E)$	104	#5	19'-11"	—
$n(E)$	82	#7	14'-8"	U
$n_1(E)$	6	#7	7'-1"	U
$p_1(E)$	20	#7	19'-11"	—
$s_3(E)$	42	#5	10'-7"	□
$t_1(E)$	56	#8	8'-8"	—
$t_1(E)$	48	#5	8'-8"	—
$u_1(E)$	6	#6	9'-4"	U
$u_2(E)$	52	#5	7'-9"	U
$v_4(E)$	90	#7	14'-10"	U
$v_5(E)$	170	#7	16'-0"	—
$w(E)$	40	#5	22'-10"	—
Concrete Structures		Cu. Yd.	148.4	
Reinforcement Bars, Epoxy Coated		Pound	17460	
Furnishing Steel Piles HP12x63		Foot	1917	
Driving Piles HP12x63		Foot	1917	
Test Pile Steel HP12x63		Each	1	
Pile Shoes		Each	28	
Cofferdam (Location D)		Each	1	
Cofferdam Excavation		Cu. Yd.	398	

**PILE DATA**

Type: Steel HP12x63 with pile shoes  
 Nominal Required Bearing: 422 kips  
 Factored Resistance Available: 211 kips  
 Est. Pile Length: 71'  
 No. Production Piles: 27  
 No. Test Piles: 1

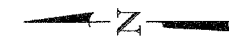
DESIGNED	R.L. Thorp
CHECKED	N.R. Barnett
DRAWN	h.t. duong
CHECKED	RLT/NRB

April 9, 2007  
 EXAMINED *Thomas J. Donagalli*  
 ENGINEER OF BRIDGE DESIGN  
 PASSED *Ralph E. Anderson*  
 ENGINEER OF BRIDGES AND STRUCTURES

**PIER 1**  
 F.A.P. RTE. 785 - SEC. 134-IBR-2  
 MADISON COUNTY  
 STATION 623+90.00  
 STRUCTURE NO. 060-0240

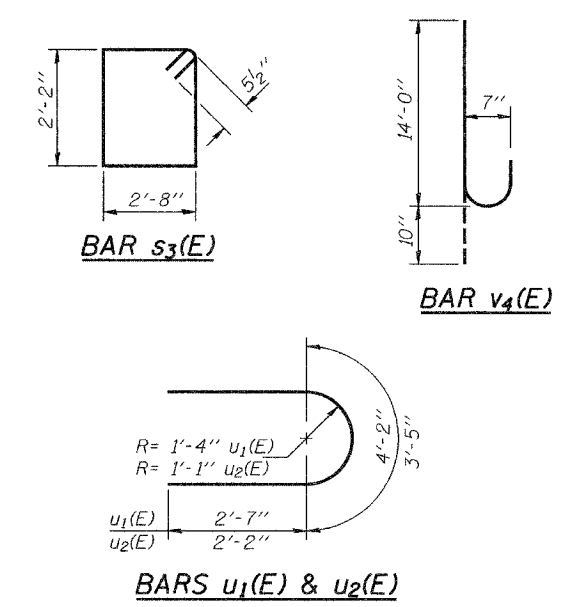
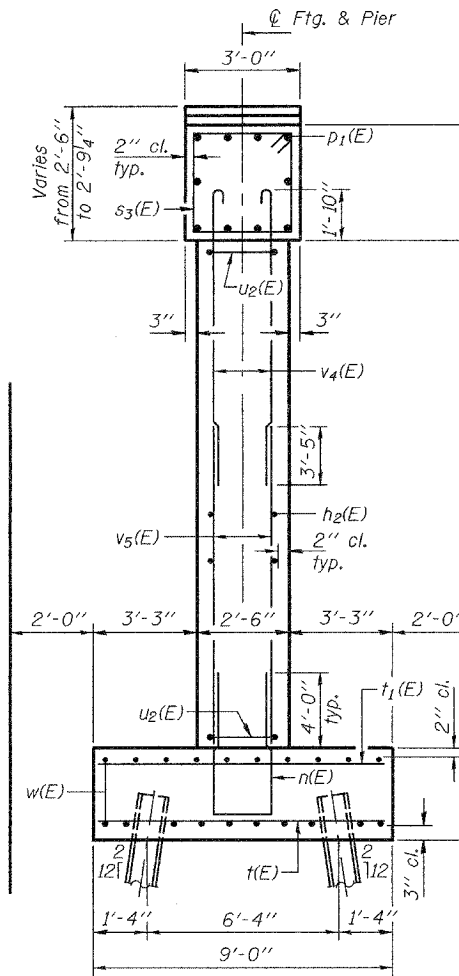
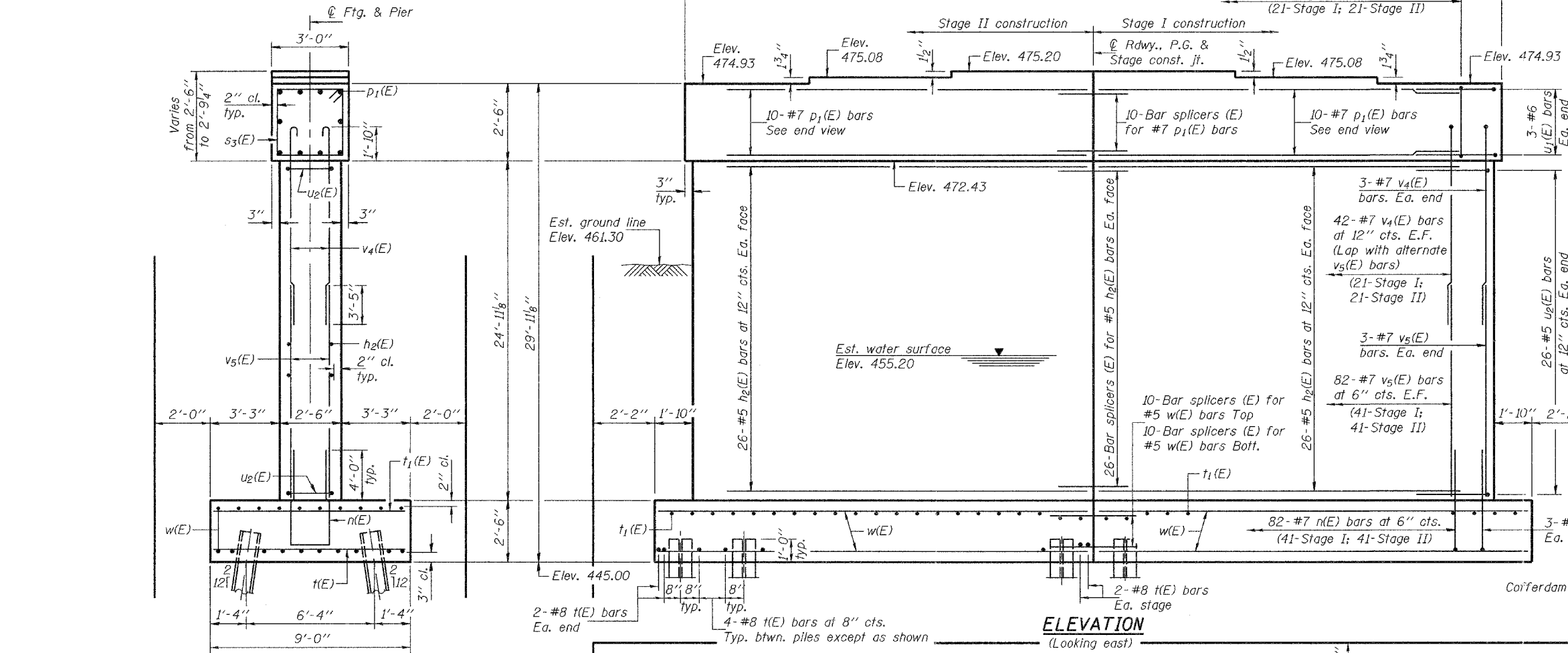
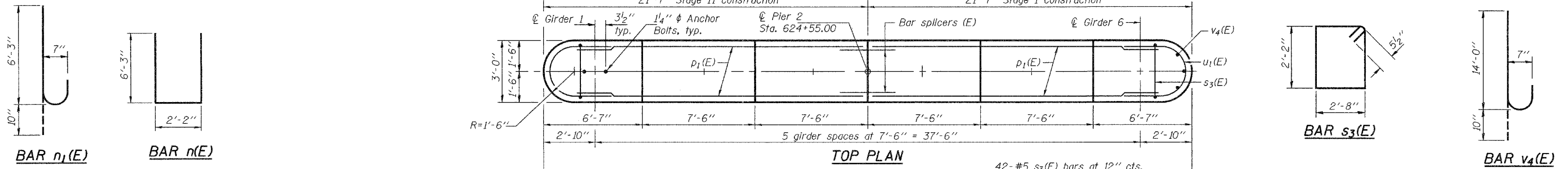
Notes: Space reinforcement in cap to miss anchor bolts.  
 Pour steps monolithically with cap.  
 For bar splicer details, see sheet 18 of 23.  
 For details of piles, see sheet 19 of 23.

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION



ROUTE NO.	SECTION	COUNTY	STATION	SHEET NO.	SHEET NO. 17 23 SHEETS
FAP 785	134-IBR-2	MADISON	38	50	
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT	

Contract #76902



Top of cofferdam Elev. 461.50

**BILL OF MATERIAL**

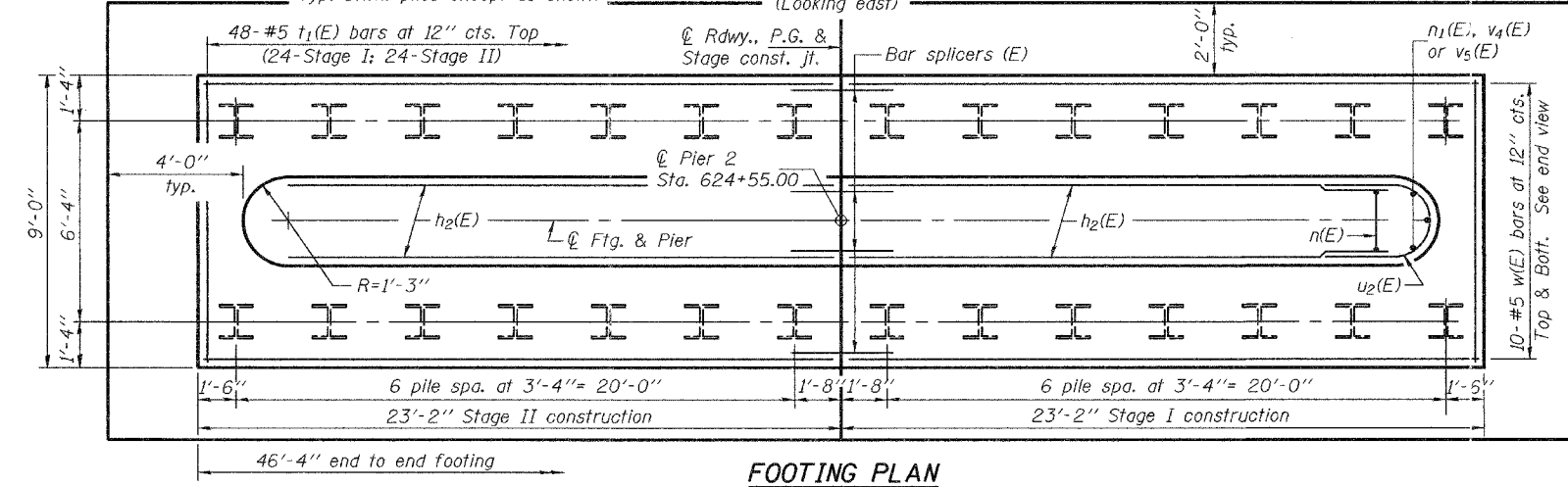
Bar	No.	Size	Length	Shape
h2(E)	104	#5	19'-11"	—
n(E)	82	#7	14'-8"	U
n1(E)	6	#7	7'-1"	U
p1(E)	20	#7	19'-11"	—
s3(E)	42	#5	10'-7"	□
t(E)	56	#8	8'-8"	—
t1(E)	48	#5	8'-8"	—
u1(E)	6	#6	9'-4"	U
u2(E)	52	#5	7'-9"	U
v4(E)	90	#7	14'-10"	U
v5(E)	170	#7	16'-0"	—
w(E)	40	#5	22'-10"	—
Concrete Structures		Cu. Yd.	148.4	
Reinforcement Bars, Epoxy Coated		Pound	17460	
Furnishing Steel Piles HP12x63		Foot	1404	
Driving Piles		Foot	1404	
Test Pile Steel HP12x63		Each	1	
Pile Shoes		Each	28	
Cofferdam (Location 2)		Each	1	
Cofferdam Excavation		Cu. Yd.	398	

**PILE DATA**

Type: Steel HP12x63 with pile shoes  
 Nominal Required Bearing: 422 kips  
 Factored Resistance Available: 211 kips  
 Est. Pile Length: 52'  
 No. Production Piles: 27  
 No. Test Piles: 1

DESIGNED	R.L. Tharp
CHECKED	N.R. Barnett
DRAWN	h.t. duong
CHECKED	RLT/NRB

April 9, 2007  
 EXAMINED *Thomas J. Damagalki*  
 ENGINEER OF BRIDGE DESIGN  
 PASSED *Ralph E. Anderson*  
 ENGINEER OF BRIDGES AND STRUCTURES



**PIER 2**  
 F.A.P. RTE. 785 - SEC. 134-IBR-2  
 MADISON COUNTY  
 STATION 623+90.00  
 STRUCTURE NO. 060-0240

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET
FAP 785	134-IBR-2	MADISON	39	56
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 18  
23 SHEETS

Contract #76902

**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:

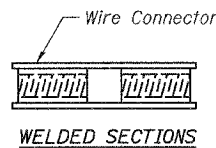
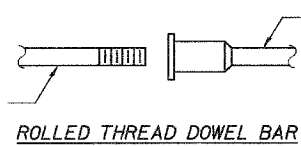
- ① Minimum Capacity =  $1.25 \times f_y \times A_t$   
(Tension in kips)
- ② Minimum \*Pull-out Strength =  $0.66 \times f_y \times A_t$   
(Tension in kips)

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

**BAR SPLICER ASSEMBLIES**

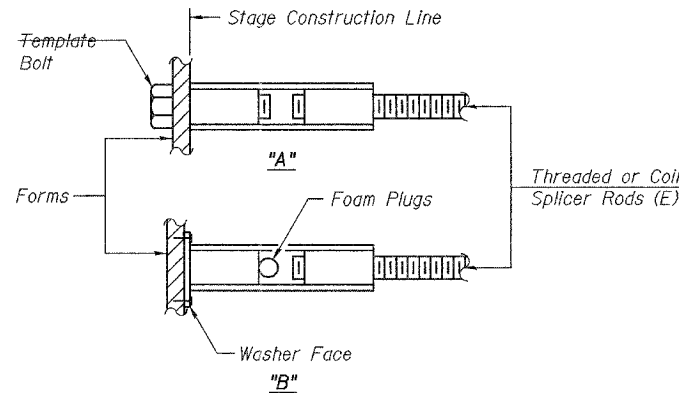
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-0"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8

The diameter of this part is equal or larger than the diameter of bar spliced.



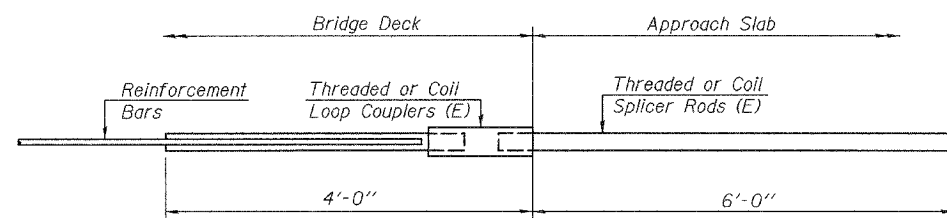
**BAR SPLICER ASSEMBLY ALTERNATIVES**

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



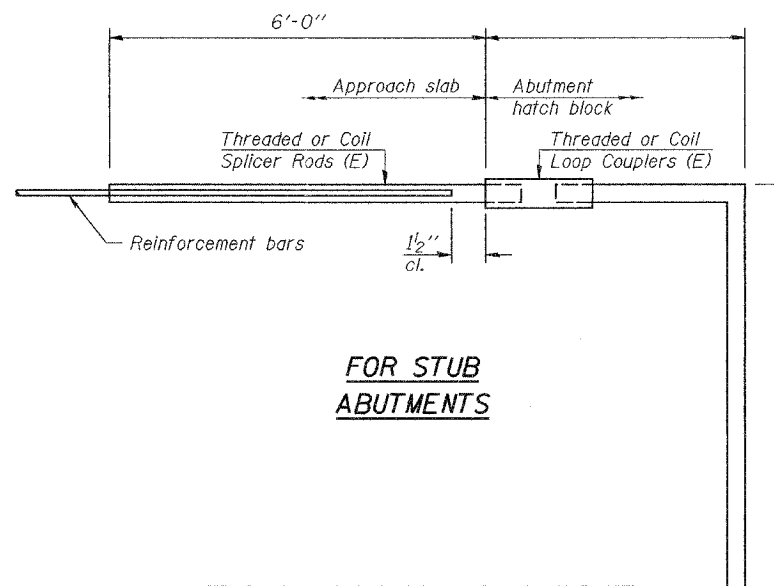
**INSTALLATION AND SETTING METHODS**

"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.



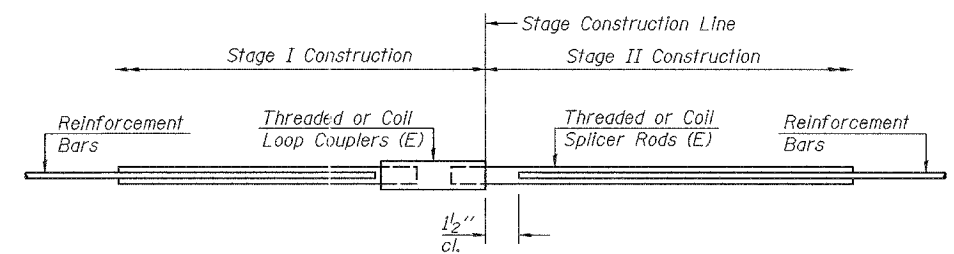
**FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS**

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 80



**FOR STUB ABUTMENTS**

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required =



**STANDARD**

Bar Size	No. Assemblies Required	Location
#5	1021	Deck
#6	16	Diaphragms
#7	18	Abutments
#7	20	Piers
#5	144	Piers

DESIGNED	R.L. Tharp
CHECKED	M.R. Barnett
DRAWN	h.t. duong
CHECKED	RLT/NRB

April 9, 2007

EXAMINED *Thomas J. Demagala*  
ENGINEER OF BRIDGE DESIGN

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

BSD-1

11-1-06

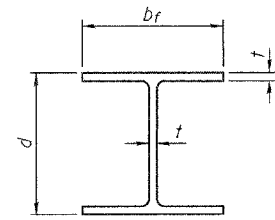
**BAR SPLICER ASSEMBLY DETAILS**  
**F.A.P. RTE. 785 - SEC. 134-IBR-2**  
**MADISON COUNTY**  
**STATION 623+90.00**  
**STRUCTURE NO. 060-0240**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 785	134-IBR-2	MADISON	40	50
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

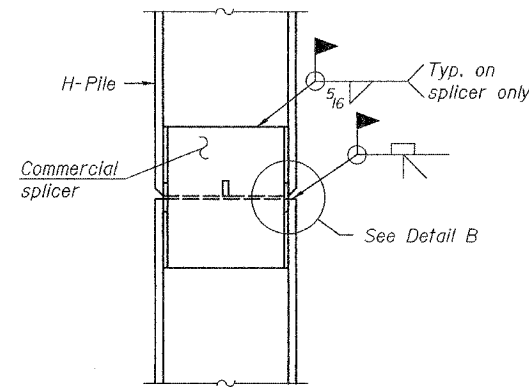
SHEET NO. 19  
23 SHEETS

Contract #76902

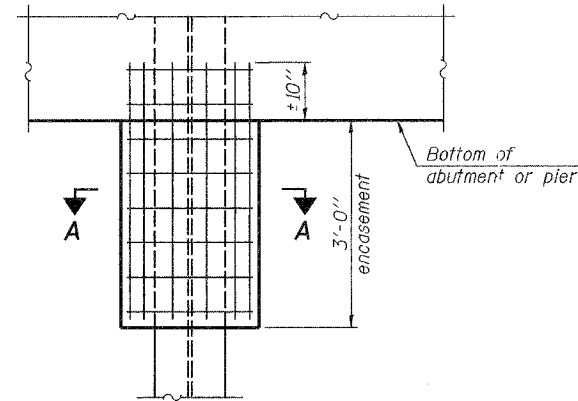


STEEL PILE TABLE

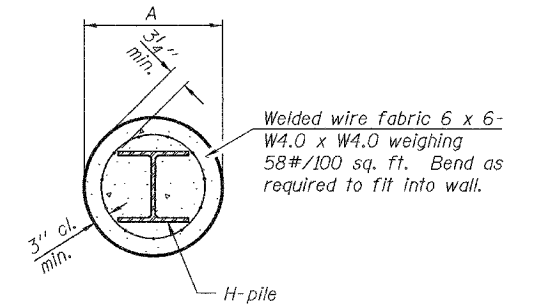
Designation	Depth d	Flange width b <sub>f</sub>	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/6"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/6"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 3/8"	7/16"	18"



ELEVATION



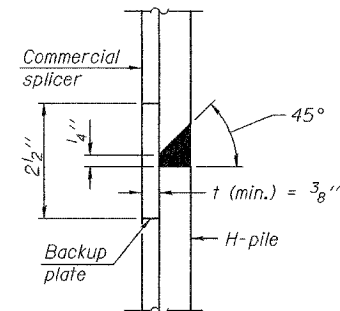
ELEVATION



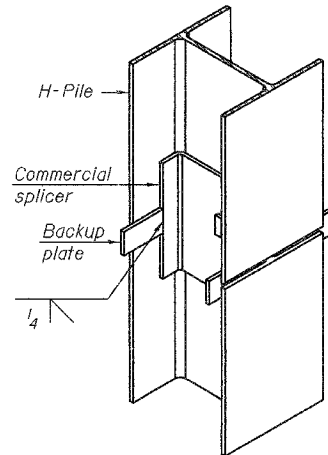
SECTION A-A

Note:  
Forms for encasement may be omitted when soil conditions permit.

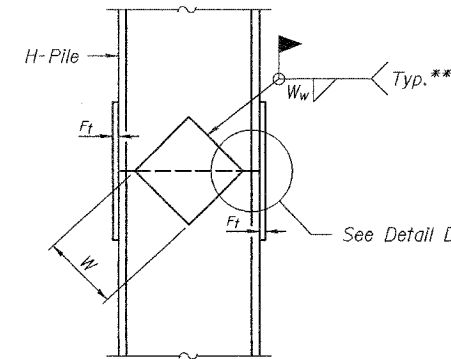
PILE ENCASEMENT



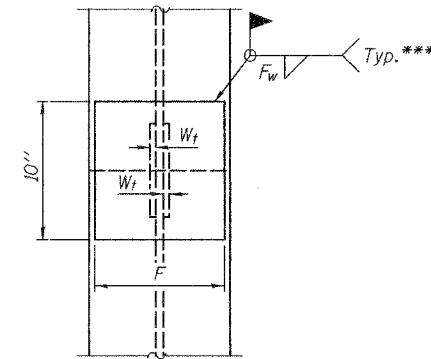
DETAIL "B"



ISOMETRIC VIEW



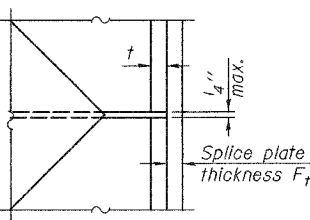
ELEVATION



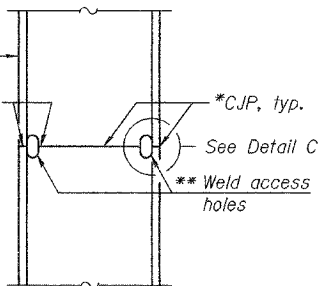
END VIEW

WELDED COMMERCIAL SPLICE

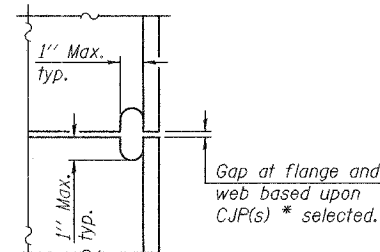
Designation	F	F <sub>t</sub>	F <sub>w</sub>	W	W <sub>f</sub>	W <sub>w</sub>
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5 8/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5 8/8"	1/2"
x89	12 1/2"	3/4"	1/6"	7 3/4"	5 8/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5 8/8"	1/2"
HP 12x84	10"	7/8"	1/6"	6 1/2"	5 8/8"	1/2"
x74	10"	7/8"	1/6"	6 1/2"	5 8/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"



DETAIL D



ELEVATION

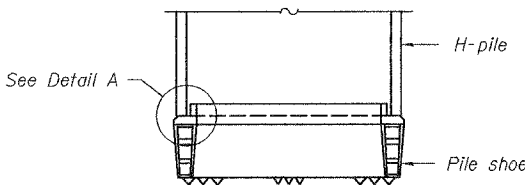


DETAIL C

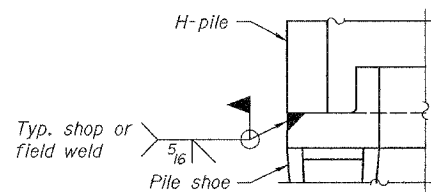
COMPLETE PENETRATION WELD SPLICE

WELDED PLATE FIELD SPLICE

Note:  
The steel H-piles shall be according to AASHTO M270 Grade 50.



ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT

DESIGNED	R.L. Tharp
CHECKED	N.R. Barneff
DRAWN	h.t. duong
CHECKED	RLT/NRB

APPROVED	April 9, 2007
EXAMINED	Thomas J. Demagala ENGINEER OF BRIDGE DESIGN
PASSED	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

F-HP 11-1-06

- \* Use joint conforming to Figure 3.4 in AWS D1.1, Structure Welding Code - Steel.
- \*\* Preparation per Fig. 5.2 in AWS D1.1, Structure Welding Code - Steel.
- \*\*\* Interrupt welds 1/4" from end of each pile.

PILE DETAILS  
F.A.P. RTE. 785 - SEC. 134-IBR-2  
MADISON COUNTY  
STATION 623+90.00  
STRUCTURE NO. 060-0240





STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 785	134-IBR-2	MADISON	42	56
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

Contract #76902

SHEET NO. 21  
23 SHEETS

Illinois Department of Transportation  
Division of Highways  
District 8 Materials

### SOIL BORING LOG

Page 1 of 3  
Date 3/2/06

ROUTE FAP 785 DESCRIPTION IL 140 over Cahokia Creek LOGGED BY Sarah Wiszkon

SECTION 134-IBR-2 LOCATION SW 14, SEC. 7, TWP. 6N, RING. 7W, 3 PM

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 060-0097  
Station  
BORING NO. SB 2 E. Abut  
Station 625+54  
Offset 17.00ft Left  
Ground Surface Elev. 479.0 ft (ft) (ft) (tsf) (%)

DEPTH (ft)	DESCRIPTION	U	M	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter Upon Completion After Hrs.	U	M	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter Upon Completion After Hrs.
(ft)		(ft)	(ft)					(ft)	(ft)				
0	Mottled Silty Clay LOAM					444.5							
2													
2		1.25											
3		P											
1													
1		0.75											
2		P											
2													
4		1.15											
4		B											
479.00													
2	BrownGray Silty CLAY												
3		0.68											
4		S20											
448.50													
2	Grades to Dark Gray												
3		0.97											
4		S15											
465.00													
3	Gray Silty Clay LOAM A-4(B)												
2		0.69											
3		S15											
3													
2		0.92											
3		S10											
20													

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

Illinois Department of Transportation  
Division of Highways  
District 8 Materials

### SOIL BORING LOG

Page 2 of 3  
Date 3/2/06

ROUTE FAP 785 DESCRIPTION IL 140 over Cahokia Creek LOGGED BY Sarah Wiszkon

SECTION 134-IBR-2 LOCATION SW 14, SEC. 7, TWP. 6N, RING. 7W, 3 PM

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 060-0097  
Station  
BORING NO. SB 2 E. Abut  
Station 625+54  
Offset 17.00ft Left  
Ground Surface Elev. 479.0 ft (ft) (ft) (tsf) (%)

DEPTH (ft)	DESCRIPTION	U	M	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter Upon Completion After Hrs.	U	M	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter Upon Completion After Hrs.
(ft)		(ft)	(ft)					(ft)	(ft)				
8	Gray Clay TILL (continued)	1.63											
9		S20											
418.50													
6	Brown SAND												
14													
14		S15											
414.50													
6	Gray Silty CLAY												
7		2.44											
9		S20											
12													
13													
426.50													
6	BrownGray Silty CLAY												
7		2.28											
10		S20											
428.50													
4	Gray Clay TILL												
7		2.35											
9		B											
421.00													
4	Brown Sandy SILT												
401.00													
4	Gray Silty Clay LOAM												

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

Illinois Department of Transportation  
Division of Highways  
District 8 Materials

### SOIL BORING LOG

Page 3 of 3  
Date 3/2/06

ROUTE FAP 785 DESCRIPTION IL 140 over Cahokia Creek LOGGED BY Sarah Wiszkon

SECTION 134-IBR-2 LOCATION SW 14, SEC. 7, TWP. 6N, RING. 7W, 3 PM

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 060-0097  
Station  
BORING NO. SB 2 E. Abut  
Station 625+54  
Offset 17.00ft Left  
Ground Surface Elev. 479.0 ft (ft) (ft) (tsf) (%)

DEPTH (ft)	DESCRIPTION	U	M	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter Upon Completion After Hrs.	U	M	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter Upon Completion After Hrs.
(ft)		(ft)	(ft)					(ft)	(ft)				
5	Gray Silty Clay LOAM (continued)	0.88											
7		S20											
398.50													
60'	Limestone Sand												
Refusal - End of Boring													

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

BORING LOGS  
F.A.P. RTE. 785 - SEC. 134-IBR-2  
MADISON COUNTY  
STATION 623+90.00  
STRUCTURE NO. 060-0240

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	STATE SHEETS	SHEET NO.	SHEET NO. 22 23 SHEETS
FAP 785	134-IBR-2	MADISON	43	56	
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT			

Contract #76902

Illinois Department of Transportation  
Division of Highways  
District 8 Materials

### SOIL BORING LOG

Page 1 of 4  
Date 3/16/06

ROUTE FAP 785 DESCRIPTION IL 140 over Cahokia Creek LOGGED BY Sarah Wiszkon

SECTION 134-IBR-2 LOCATION SW 14, SEC. 7, TWP. 5N, RNG. 7W, 3 PM

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 060-0097  
Station 623+19  
BORING NO. SB 3 Pier 1  
Station 623+19  
Offset 38.90ft Left  
Ground Surface Elev. 468.0 ft

DEPTH (ft)	DESCRIPTION	UCS (psi)	Failure Mode	SPT (blows)	Notes
0 - 2	Mottled Silty LOAM	2	NC	1	
2 - 4	Gray Silty SAND (continued)	448.50			
4 - 5	Gray Coarse SAND	445.00		10	
5 - 7	Gray Silty CLAY	1.85	NC	3	(S20)
7 - 8	Rubble	1.47	B	5	
8 - 11	Gray Clay TILL	3.42	S20	8	
11 - 18	Dark Gray LOAM	5	1.58	7	B
18 - 19	Rock				
19 - 2	Mottled SILT	0.69		2	S20
2 - 3	Gray SAND	1.80	B	6	
3 - 4	Gray SILT	0.65		1	S20
4 - 1	Gray Silty SAND			1	Mottled with Green and Brown

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

Illinois Department of Transportation  
Division of Highways  
District 8 Materials

### SOIL BORING LOG

Page 2 of 4  
Date 3/16/06

ROUTE FAP 785 DESCRIPTION IL 140 over Cahokia Creek LOGGED BY Sarah Wiszkon

SECTION 134-IBR-2 LOCATION SW 14, SEC. 7, TWP. 5N, RNG. 7W, 3 PM

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 060-0097  
Station 623+19  
BORING NO. SB 3 Pier 1  
Station 623+19  
Offset 38.90ft Left  
Ground Surface Elev. 468.0 ft

DEPTH (ft)	DESCRIPTION	UCS (psi)	Failure Mode	SPT (blows)	Notes
2 - 9	Gray Silty CLAY A-6(10) See Classification @ 40 ft (continued)	2.70	B	6	
9 - 11	Dark Gray Silty CLAY (continued)	2.50	S20	9	
11 - 405.00	Dark Gray Sandy LOAM				
405.00 - 46	Small Return (~ 3 - 4')	0		4	0.81 S20
46 - 5	Gray Silty Clay LOAM	1.80	B	6	
5 - 7	Dark Gray Clay TILL	7	1.3	11	P
7 - 9	Gray Silty Clay LOAM	1.80	B	6	
9 - 14	Dark Gray Silty CLAY	2.50	S20	9	
14 - 14	Black Extremely Weathered SHALE				

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

Illinois Department of Transportation  
Division of Highways  
District 8 Materials

### SOIL BORING LOG

Page 3 of 4  
Date 3/16/06

ROUTE FAP 785 DESCRIPTION IL 140 over Cahokia Creek LOGGED BY Sarah Wiszkon

SECTION 134-IBR-2 LOCATION SW 14, SEC. 7, TWP. 5N, RNG. 7W, 3 PM

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 060-0097  
Station 623+19  
BORING NO. SB 3 Pier 1  
Station 623+19  
Offset 38.90ft Left  
Ground Surface Elev. 468.0 ft

DEPTH (ft)	DESCRIPTION	UCS (psi)	Failure Mode	SPT (blows)	Notes
12 - 14	Black Extremely Weathered SHALE (continued)				
14 - 30	Gray Weathered SHALE	30	1.94	5	S5
30 - 375.00	Gray Slightly Weathered SHALE	504*			
375.00 - 371.00	End 3/16/06				
371.00 - 100	Borehole continued with rock coring.				

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

Illinois Department of Transportation  
Division of Highways  
District 8 Materials

### ROCK BORING LOG

Page 4 of 4  
Date 3/16/06

ROUTE FAP 785 DESCRIPTION IL 140 over Cahokia Creek LOGGED BY Sarah Wiszkon

SECTION 134-IBR-2 LOCATION SW 14, SEC. 7, TWP. 5N, RNG. 7W, 3 PM

COUNTY Madison CORING METHOD

STRUCT. NO. 060-0097  
Station 623+19  
BORING NO. SB 3 Pier 1  
Station 623+19  
Offset 38.90ft Left  
Ground Surface Elev. 468.0 ft

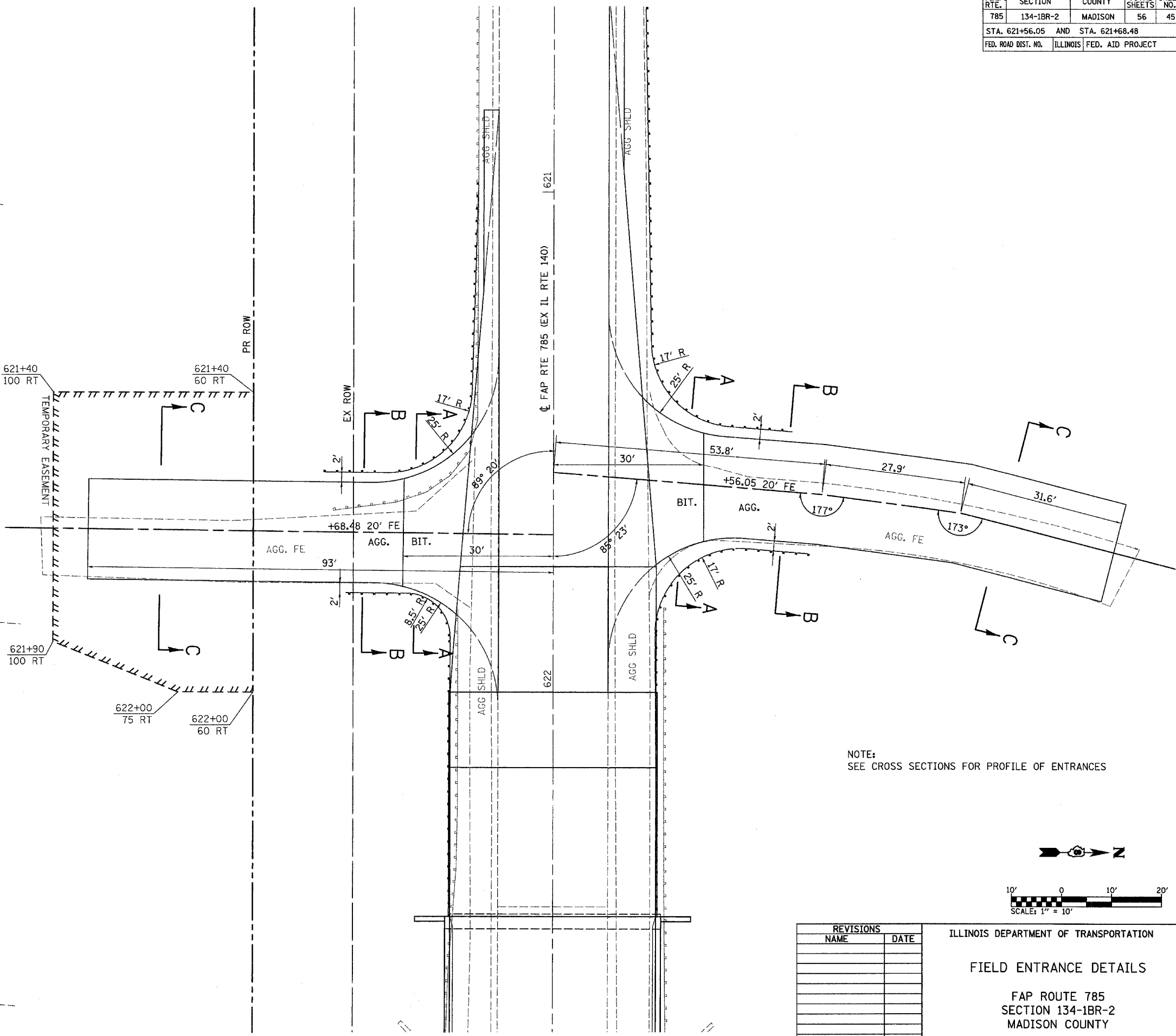
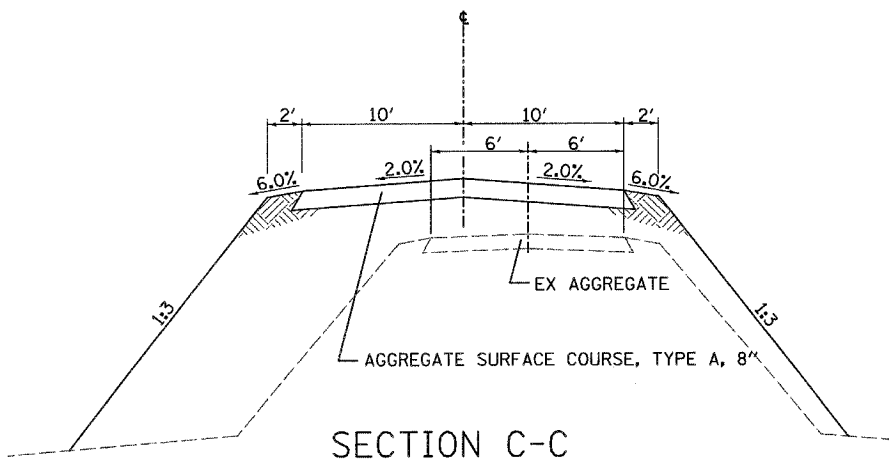
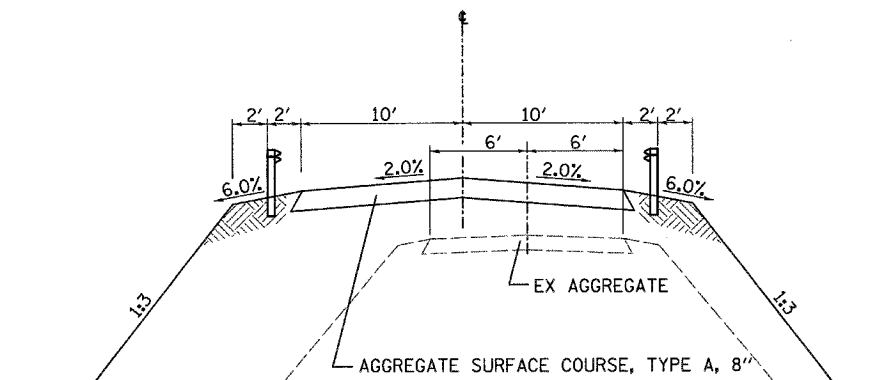
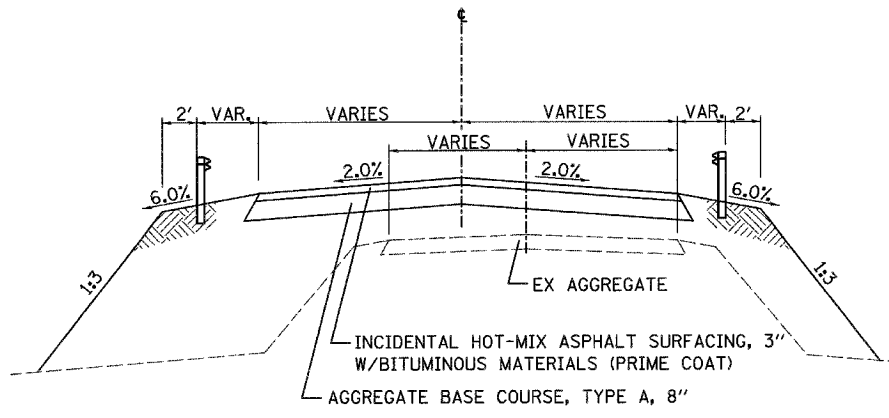
DEPTH (ft)	DESCRIPTION	UCS (psi)	Failure Mode	SPT (blows)	Notes
371.00 - 1	Gray LIMESTONE	1	21	18	16
1 - 1	End 3/20/06				
1 - 1	Start 3/23/06				
1 - 100	End of Boring and Rock Core				

Color pictures of the cores Upon Request  
Cores will be stored for examination until  
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

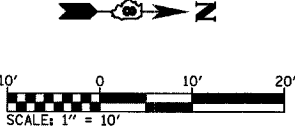
BORING LOGS  
F.A.P. RTE. 785 - SEC. 134-IBR-2  
MADISON COUNTY  
STATION 623+90.00  
STRUCTURE NO. 060-0240



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	134-1BR-2	MADISON	56	45
STA. 621+56.05 AND		STA. 621+68.48		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



NOTE:  
SEE CROSS SECTIONS FOR PROFILE OF ENTRANCES



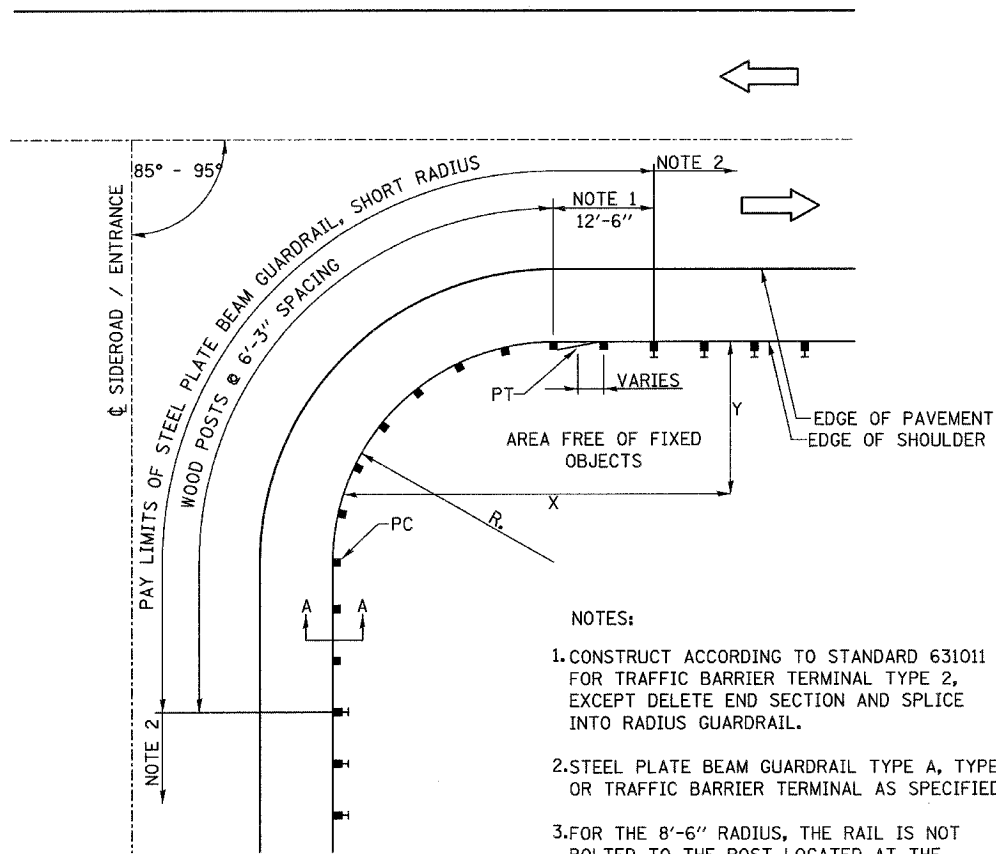
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**FIELD ENTRANCE DETAILS**  
 FAP ROUTE 785  
 SECTION 134-1BR-2  
 MADISON COUNTY

PLOT DATE = 8/21/2007  
 FILE NAME = H:\V\2590\4\Technical Production\Structural\SN 888-8248\Microstation\Ent0805a.dgn  
 USER NAME = MUSER

FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

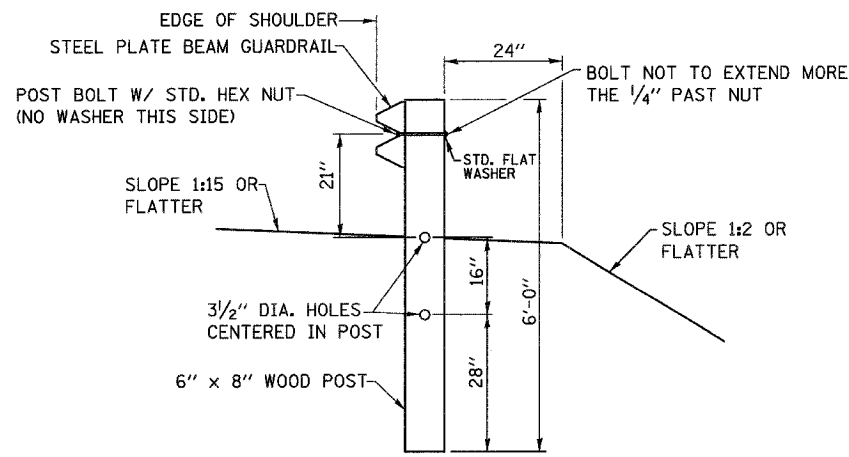
PLAN	DATE
SURVEYED	BY
DESIGNED	BY
CHECKED	BY
DATE	



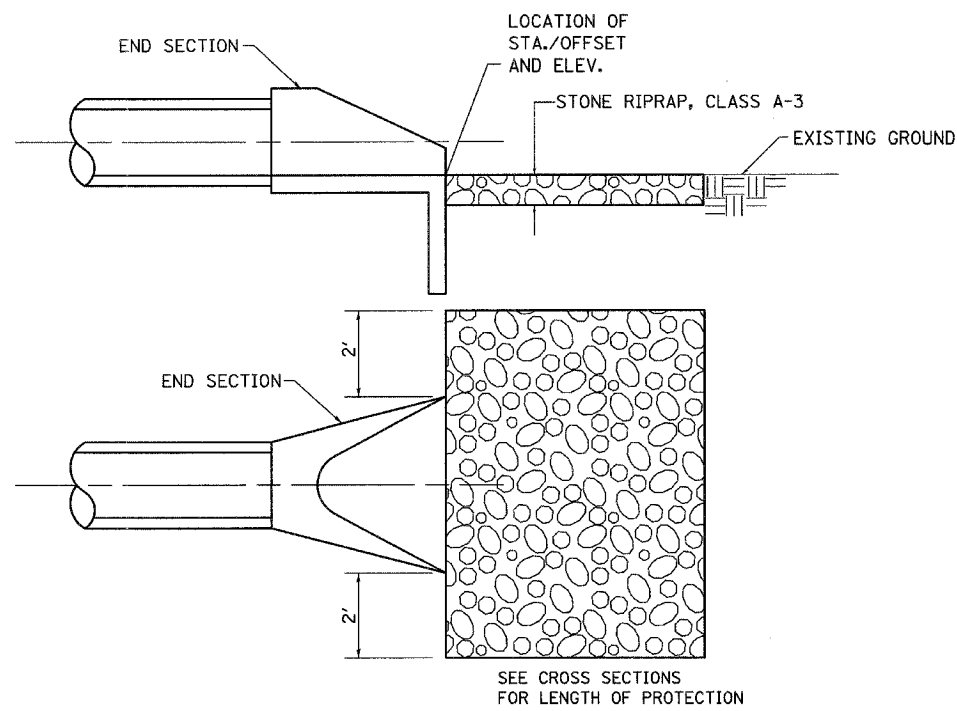
PLAN VIEW SHORT RADIUS GUARDRAIL DETAIL

NOT TO SCALE

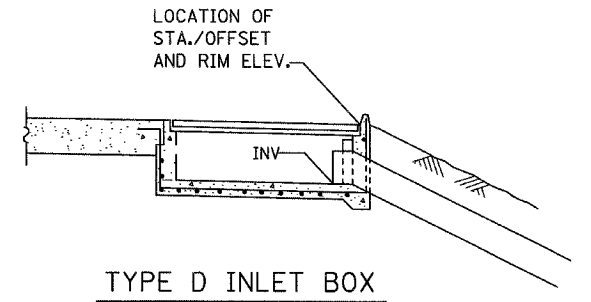
INSTALLATION CHARACTERISTICS PER DESIGN RADIUS			
R	NO. OF WOOD POSTS	X	Y
8'-6"	5 (NOTE 3)	25'	15'
17'-0"	6	30'	15'
25'-6"	8	40'	20'
35'-0"	11	50'	20'



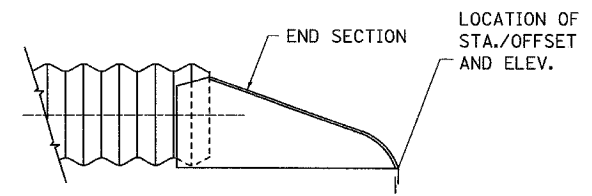
SECTION A-A  
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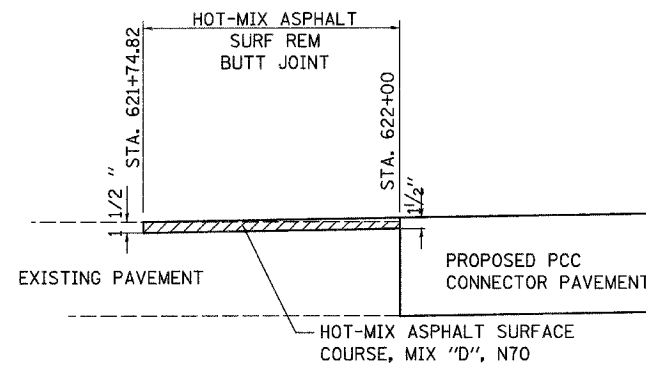
TYPICAL RIPRAP DETAIL



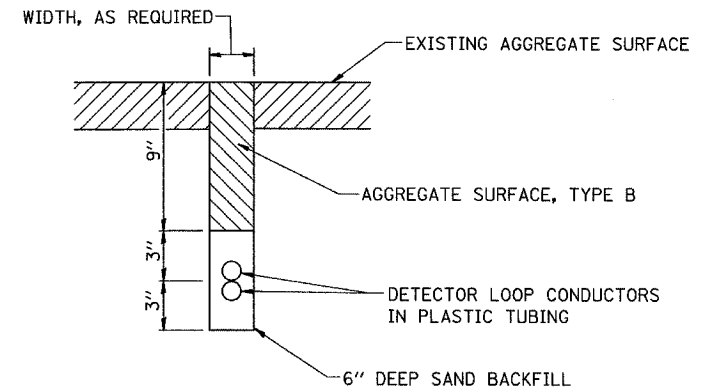
TYPE D INLET BOX



METAL END SECTION



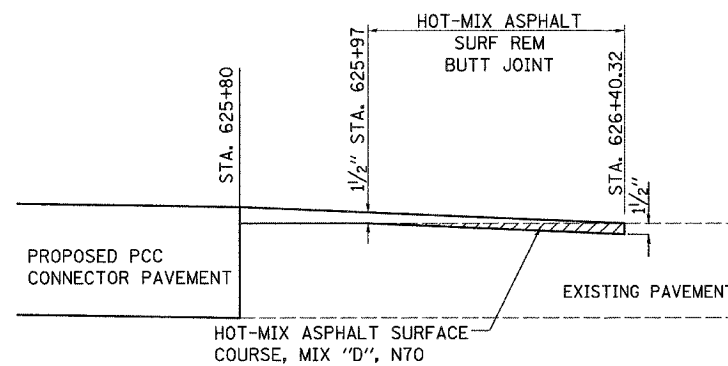
BUTT JOINT DETAIL WEST END



DETECTOR LOOP INSTALLED IN TRENCH

INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE PLANS AND SECTION 886 OF THE STANDARD SPECIFICATIONS WITH THE FOLLOWING EXCEPTIONS:

1. SLOTS ARE TO BE TRENCHED INSTEAD OF SAWED.
2. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, STANDARD 701321.



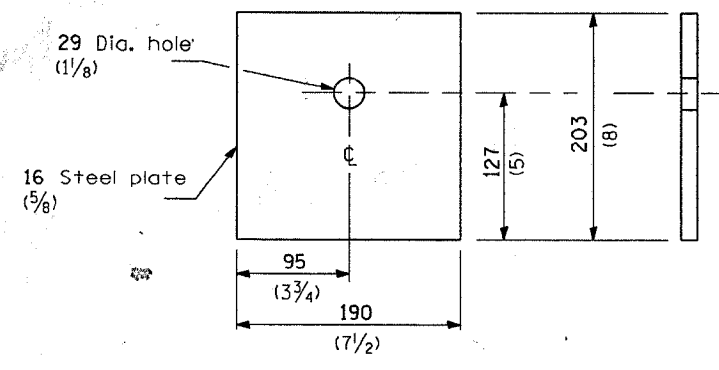
BUTT JOINT DETAIL EAST END

REVISIONS	
NAME	DATE

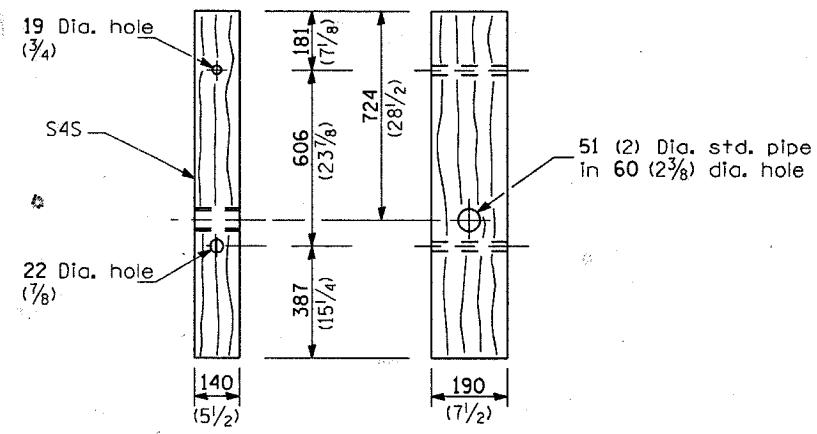
ILLINOIS DEPARTMENT OF TRANSPORTATION

DETAIL SHEET  
FAP ROUTE 785  
SECTION 134-1BR-2  
MADISON COUNTY  
SN 060-0240

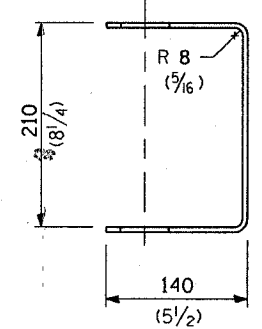
F.A. P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
786	134-1BR-2	MADISON	50	46A
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



**BEARING PLATE K**

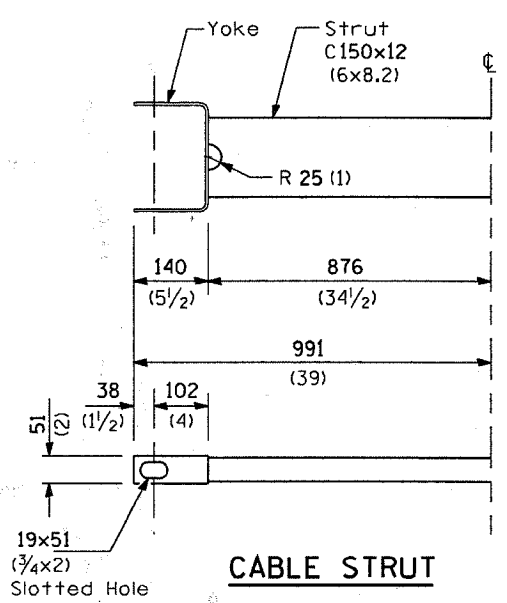


**WOOD POST**

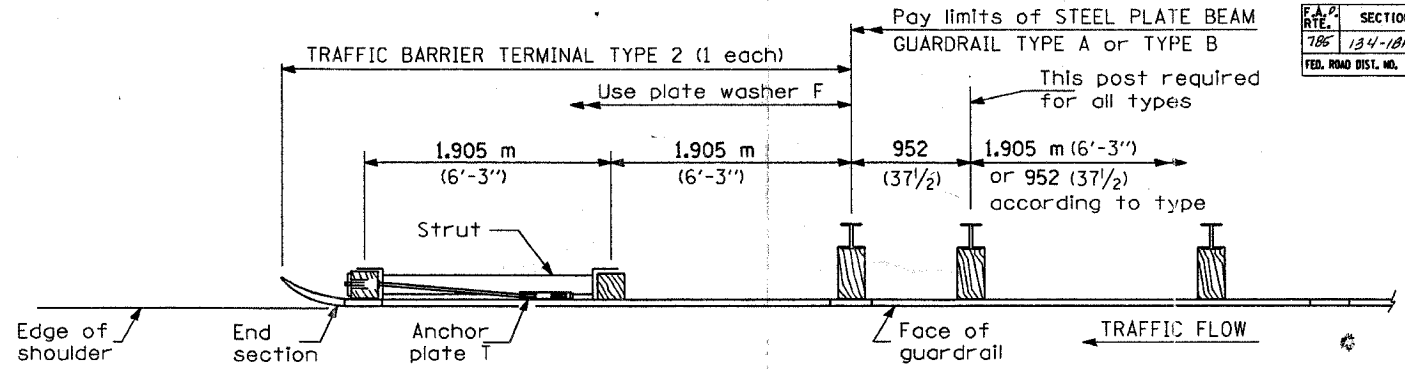


**YOKE**

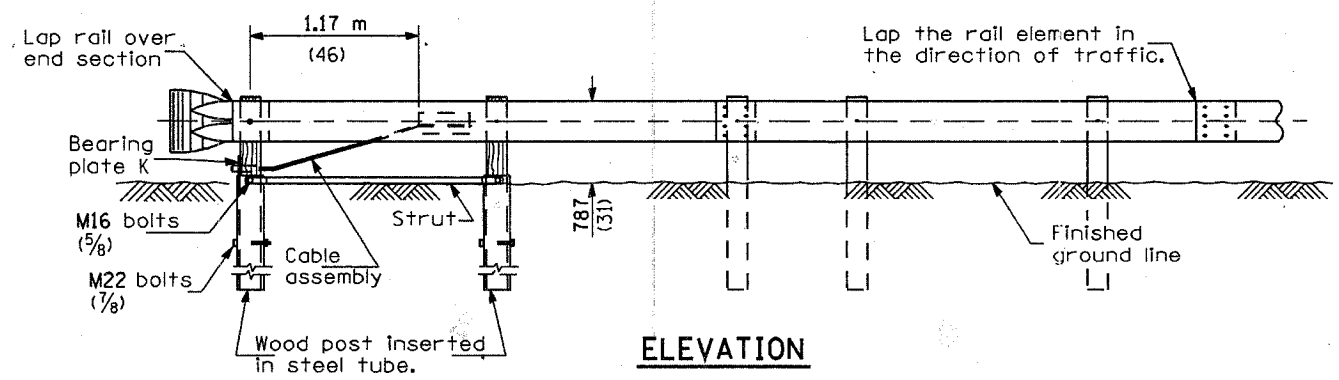
5 (3/16) thick steel



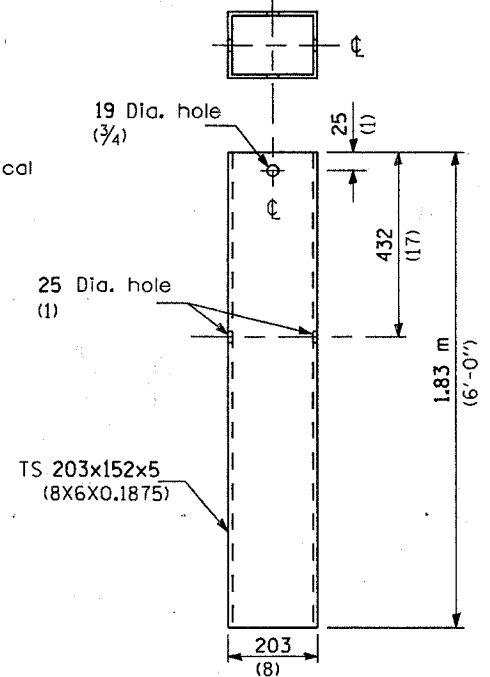
**CABLE STRUT**



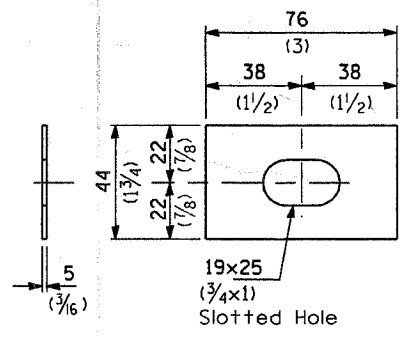
**PLAN**



**ELEVATION**



**STEEL TUBE**



**PLATE WASHER F**

**GENERAL NOTES**

See Standard 630001 for details of guardrail not shown.

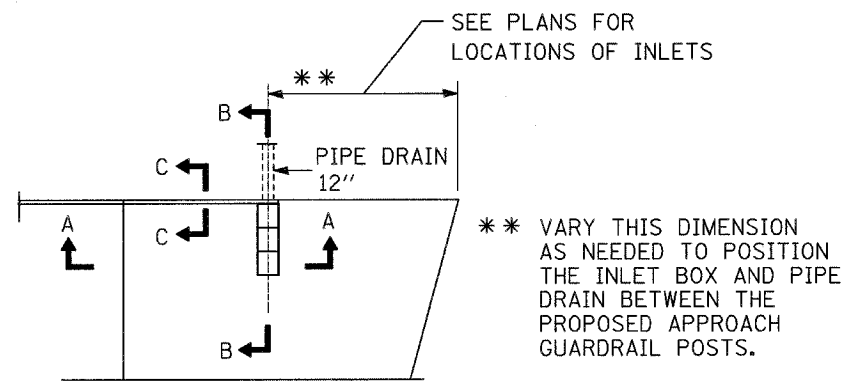
The bearing plate K shall be held in position by (2) two eight penny nails driven into the post and bent over the top of the plate.

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

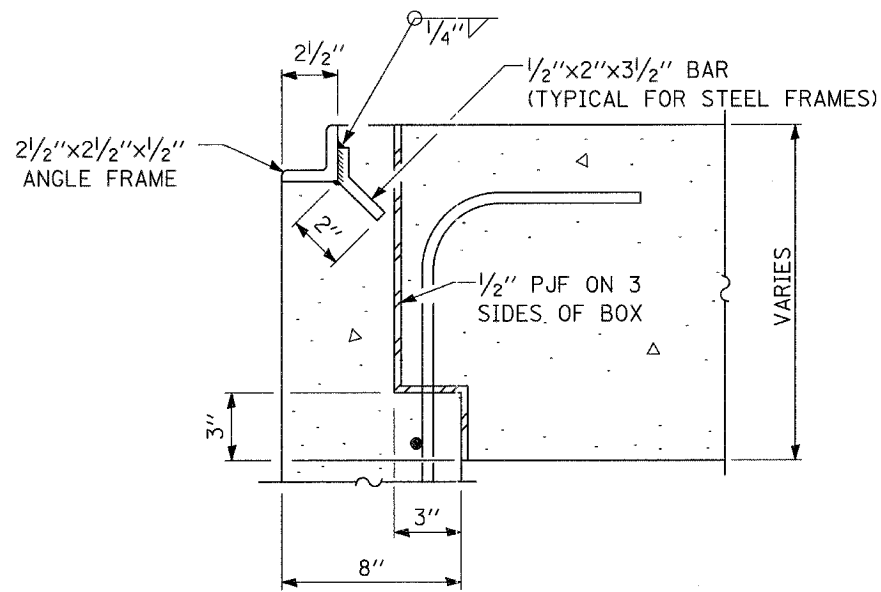
**TRAFFIC BARRIER TERMINAL, TYPE 2**

**DETAIL**

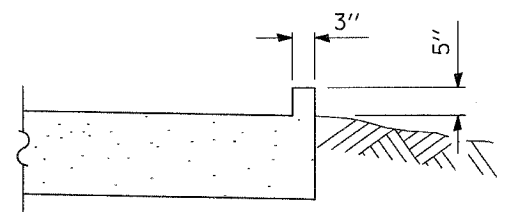
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	134-1BR-2	MADISON	56	47
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



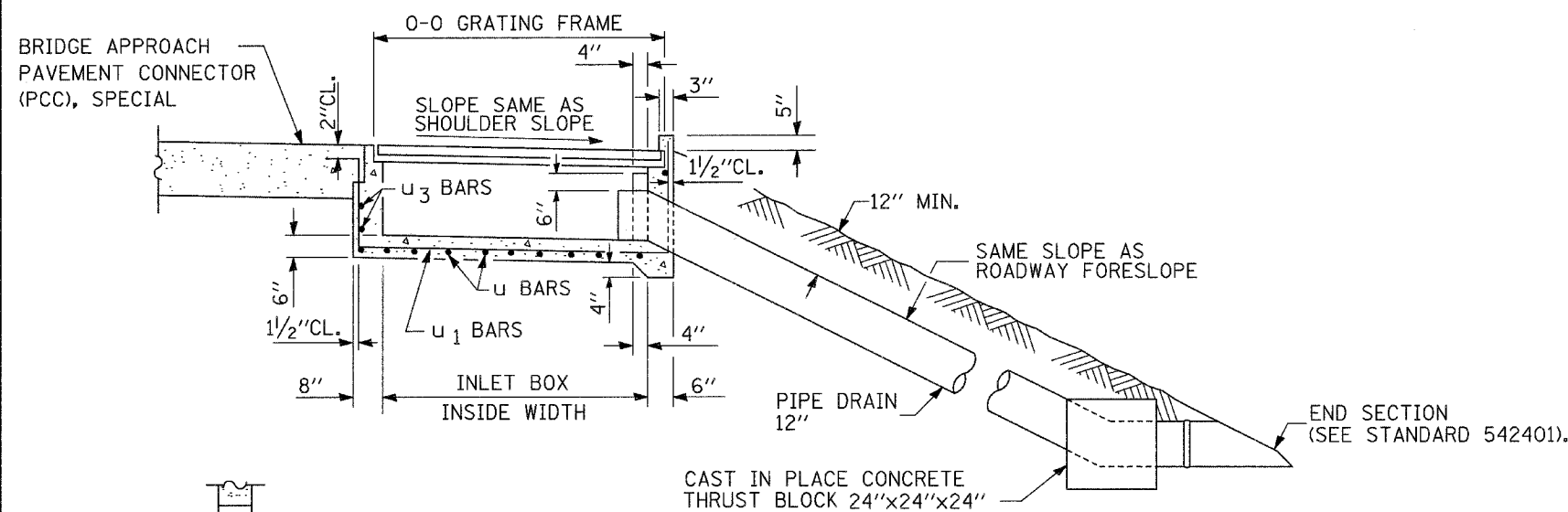
DETAIL PLAN



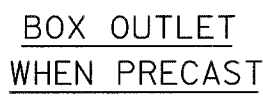
DETAIL A



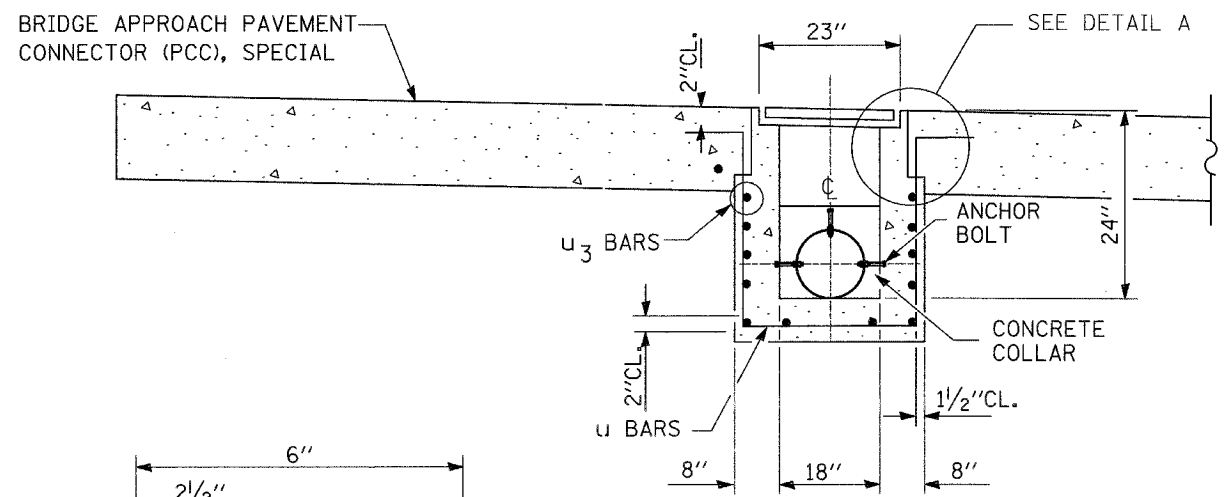
SECTION C-C



SEC. B-B



BOX OUTLET WHEN PRECAST



SECTION A-A

ANCHOR BOLT

(USED TO TIE PIPE TO CONCRETE COLLAR)

GENERAL NOTES

ALL EXPOSED EDGES OF THE INLET, EXCEPT THE UPPER PERIMETER, SHALL BE BEVELED 3/4 inch.

INLET TYPE	0-0 GRATING FRAME	INLET BOX INSIDE WIDTH	INLET BOX INSIDE LENGTH
TYPE D	6'-5"	6'-0"	18"

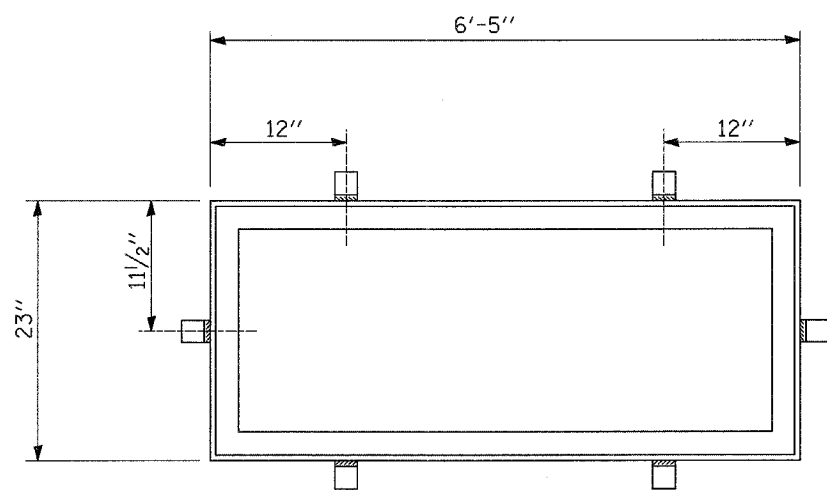
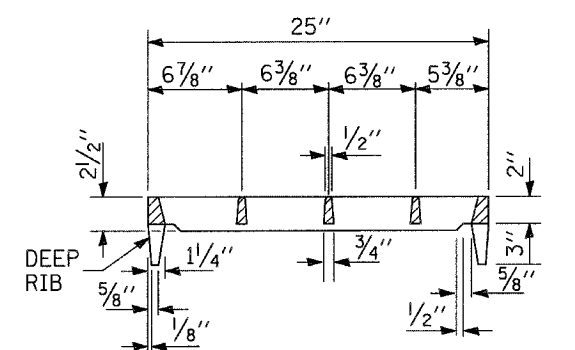
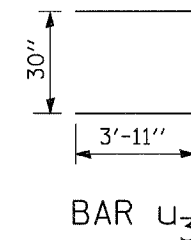
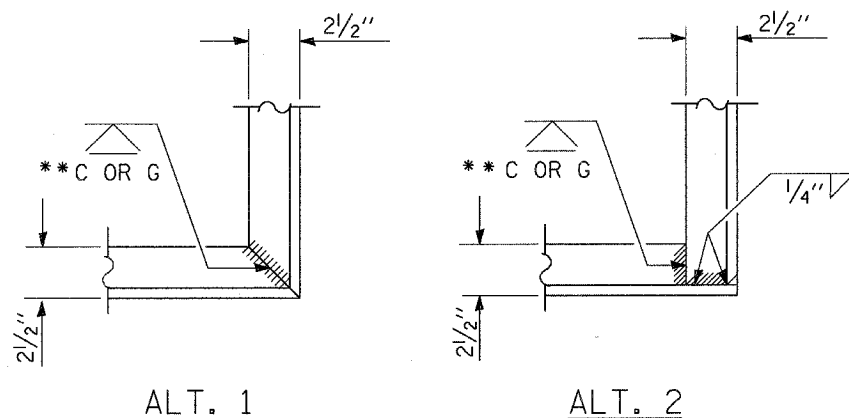
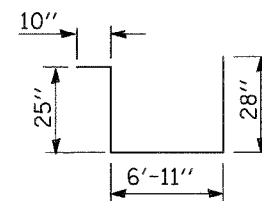
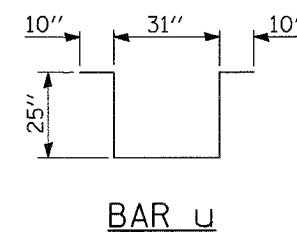
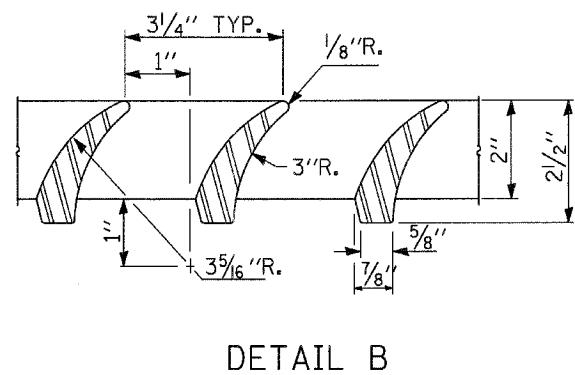
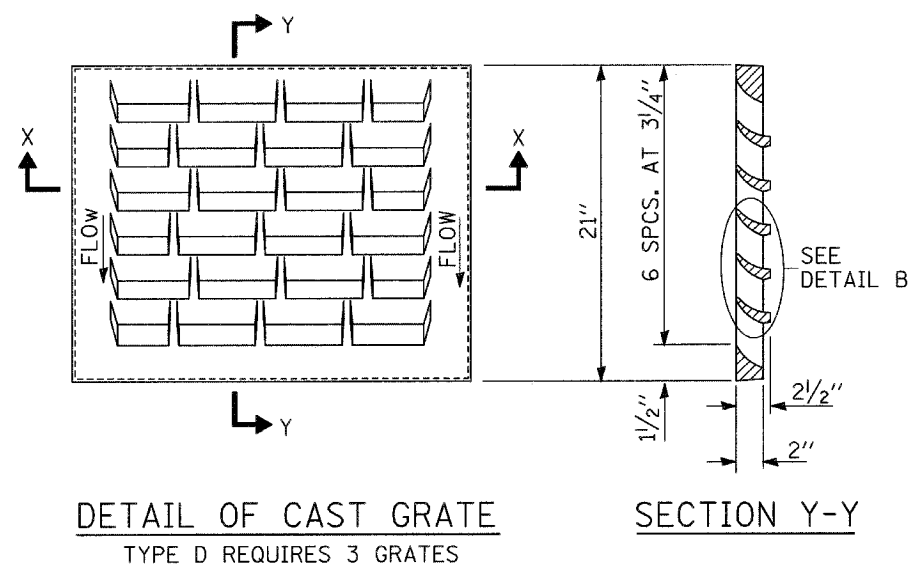
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TYPE D INLET BOX DETAIL**  
 FAP ROUTE 785  
 SECTION 134-1BR-2  
 MADISON COUNTY  
 SN 060-0240

PLOT DATE = 03/21/2007  
 FILE NAME = H:\P\25084\Technical\Production\Structural\SN\_060-0240\Microstation\060-0240.dgn  
 PLOT SCALE = 24.0000 / 1 IN.  
 USER NAME = JUSERS



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	134-1BR-2	MADISON	56	48
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



**TYPE D INLET BOX**

REQUIRED MATERIAL			
BAR	QTY.	SIZE	LENGTH
U	8	NO. 4	8'-5"
U <sub>1</sub>	3	NO. 4	12'-2"
U <sub>3</sub>	4	NO. 4	10'-4"
CONCRETE		CU. YDS.	1.1
REINF. BARS		LBS.	97.0
GRATING		SQ. FT.	10.9

REVISIONS	
NAME	DATE

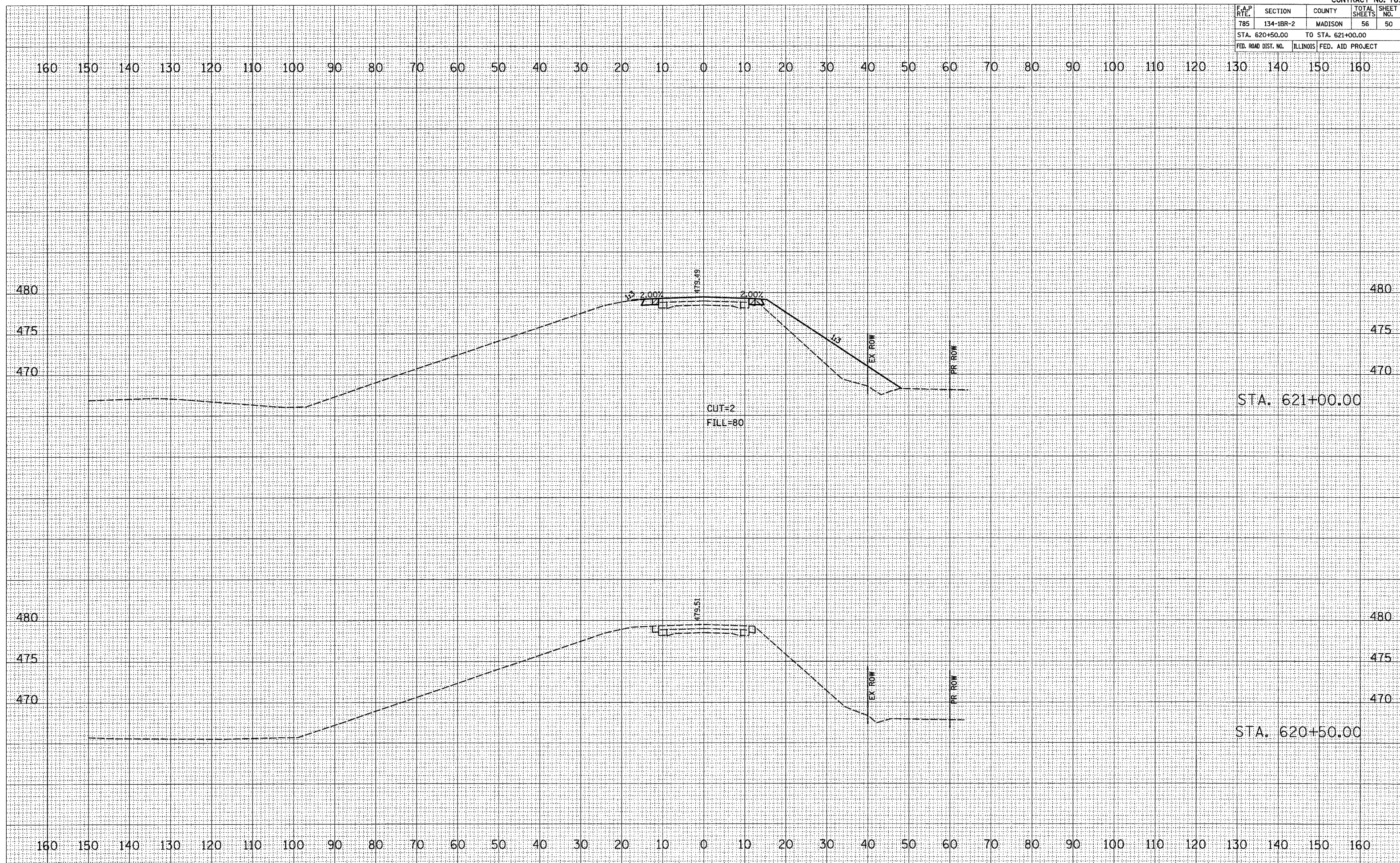
ILLINOIS DEPARTMENT OF TRANSPORTATION

**TYPE D INLET BOX DETAIL**  
FAP ROUTE 785  
SECTION 134-1BR-2  
MADISON COUNTY  
SN 060-0240

PLOT DATE = 8/31/2007  
 FILE NAME = H:\2006\1\Technical\Production\Structural\SN 060-0240\InletBoxDetail.dwg  
 USER = JLN  
 USER NAME = JLN



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	134-1BR-2	MADISON	56	50
STA. 620+50.00		TO STA. 621+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



DATE	
BY	
REVIEWED	
SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
CHECKED	

DATE	
BY	
REVIEWED	
SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
CHECKED	

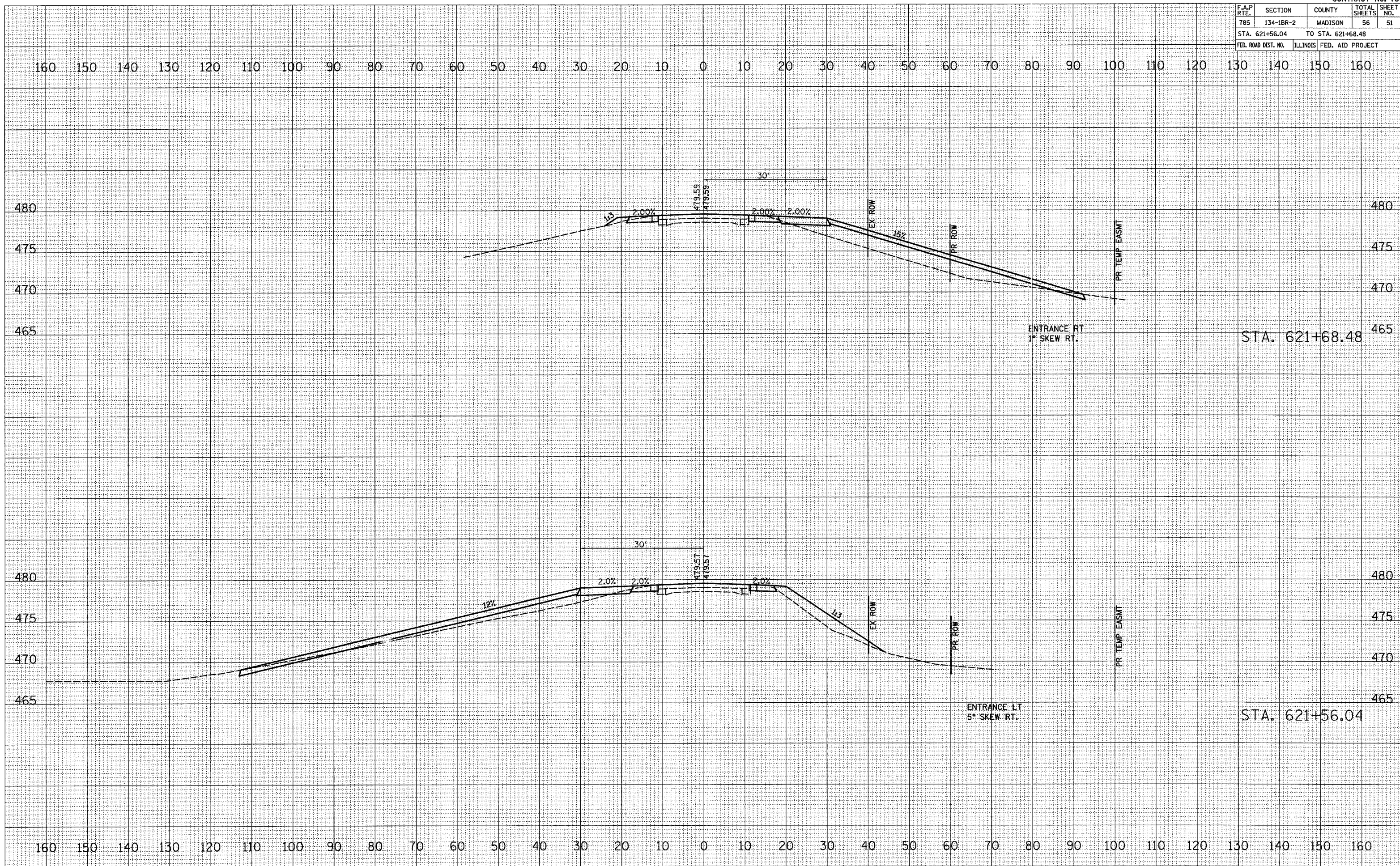
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 REFERENCE = #REF#

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	134-1BR-2	MADISON	56	51
STA. 621+56.04		TO STA. 621+68.48		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
SCALE	
AREA	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
SCALE	
AREA	
AREAS CHECKED	
NO.	

PLOT DATE = 09/07/2007  
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 REFERENCE = #REF#

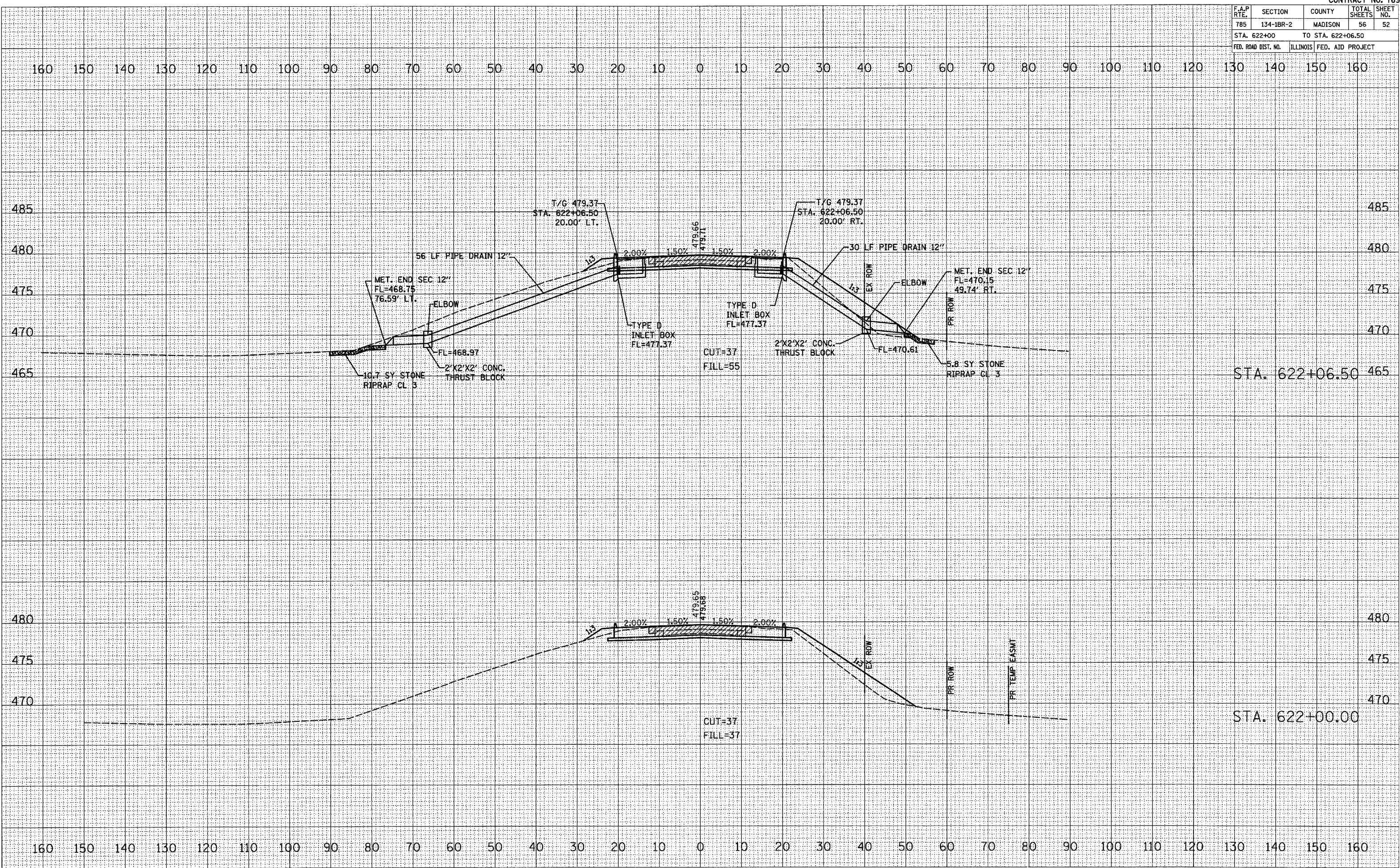


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	134-1BR-2	MADISON	56	52
STA. 622+00		TO STA. 622+06.50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

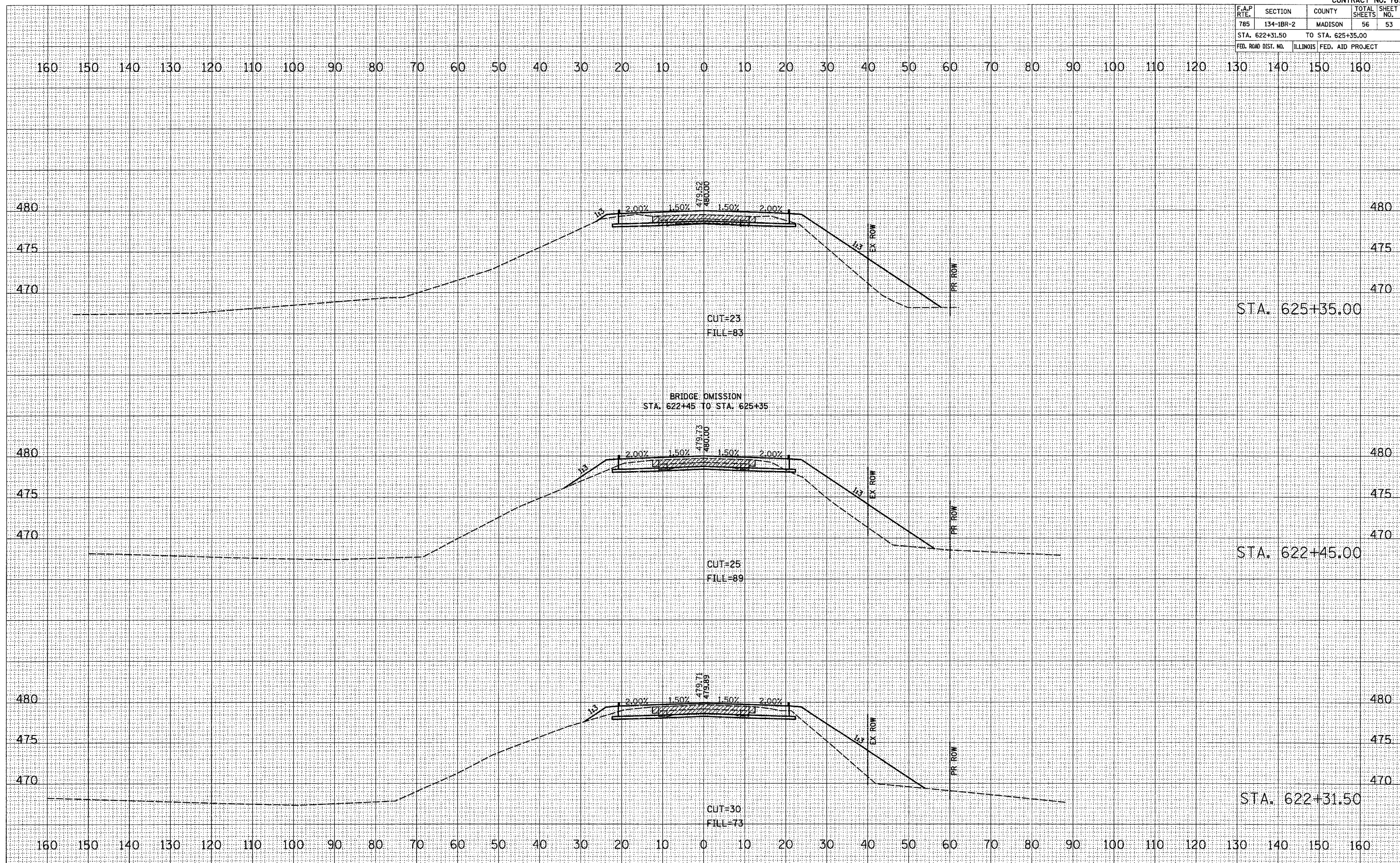
DATE \_\_\_\_\_  
 BY \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_

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

PLOT DATE = 02/21/2007  
 FILE NAME = H:\V\25804\Technical Production\Station\62200.dwg  
 PLOT SCALE = 18.00000 / IN.  
 REFERENCE = REF#



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	134-1BR-2	MADISON	56	53
STA. 622+31.50		TO STA. 625+35.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



STA. 625+35.00

STA. 622+45.00

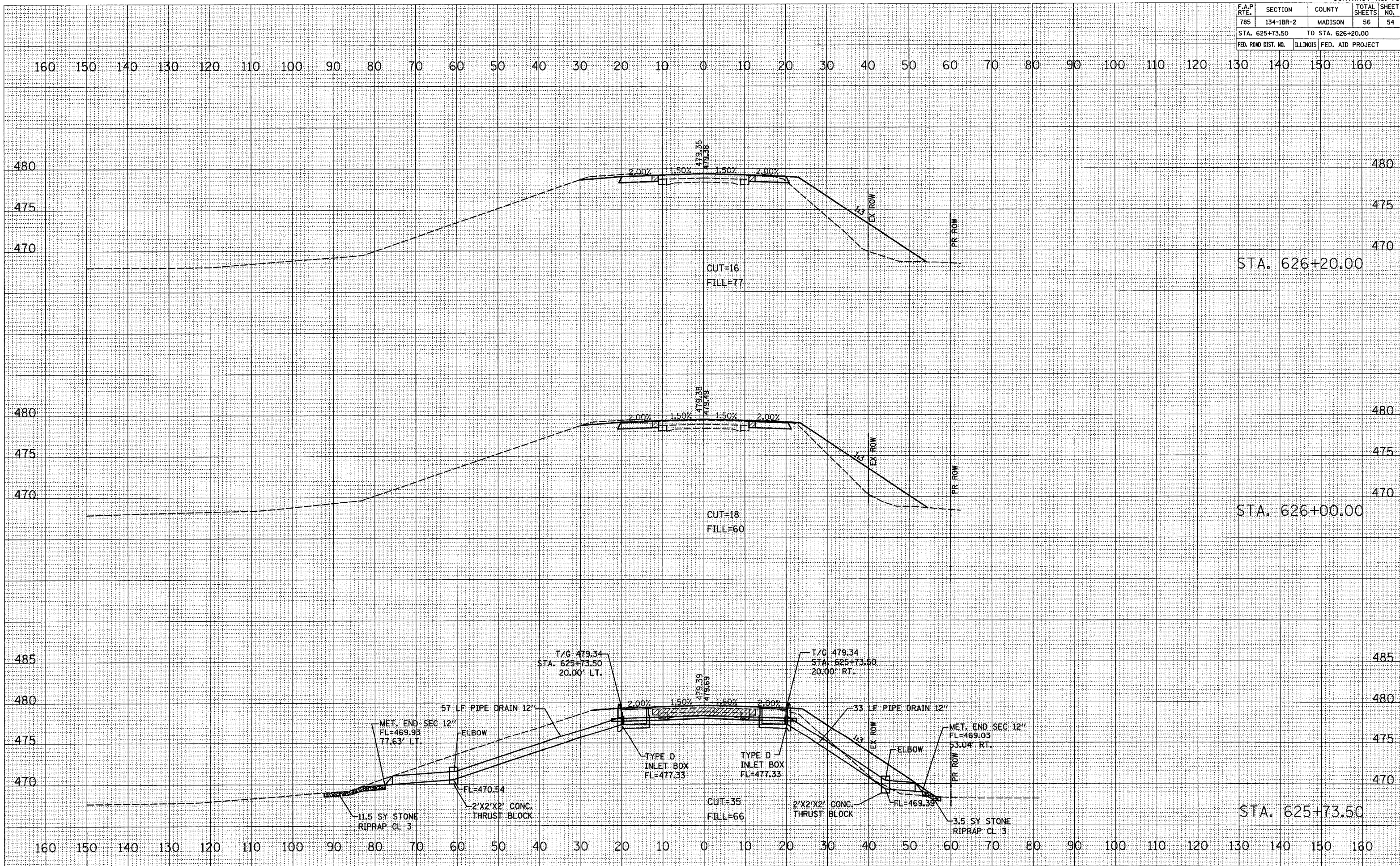
STA. 622+31.50

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

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

PLOT DATE = 03/21/2007  
 FILE NAME = H:\V\2006\1 Technical Production\Stations\622+31.50.dgn  
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 REFERENCE = REF\*\*

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	134-1BR-2	MADISON	56	54
STA. 625+73.50		TO STA. 626+20.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 AREAS CHECKED: \_\_\_\_\_  
 NO. \_\_\_\_\_

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 AREAS CHECKED: \_\_\_\_\_  
 NO. \_\_\_\_\_

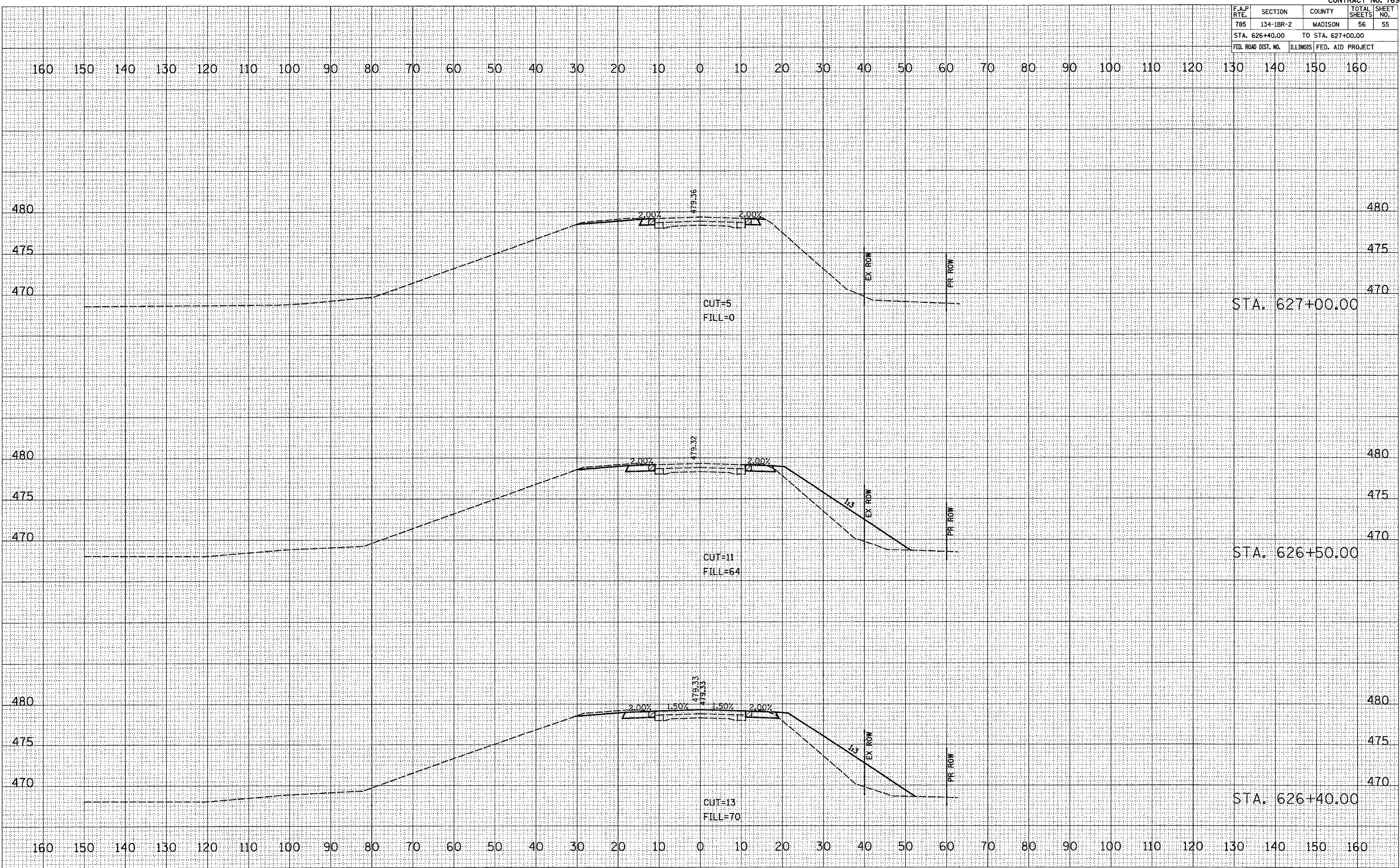
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	134-1BR-2	MADISON	56	55
STA. 626+40.00		TO STA. 627+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS	
CHECKED	
NO.	

ORIGINAL SURVEY  
 SURVEYED BY: [Name]  
 FILE NAME: [Name]  
 PLOT SCALE: 1/8" = 10.0000'  
 REFERENCE: [Name]



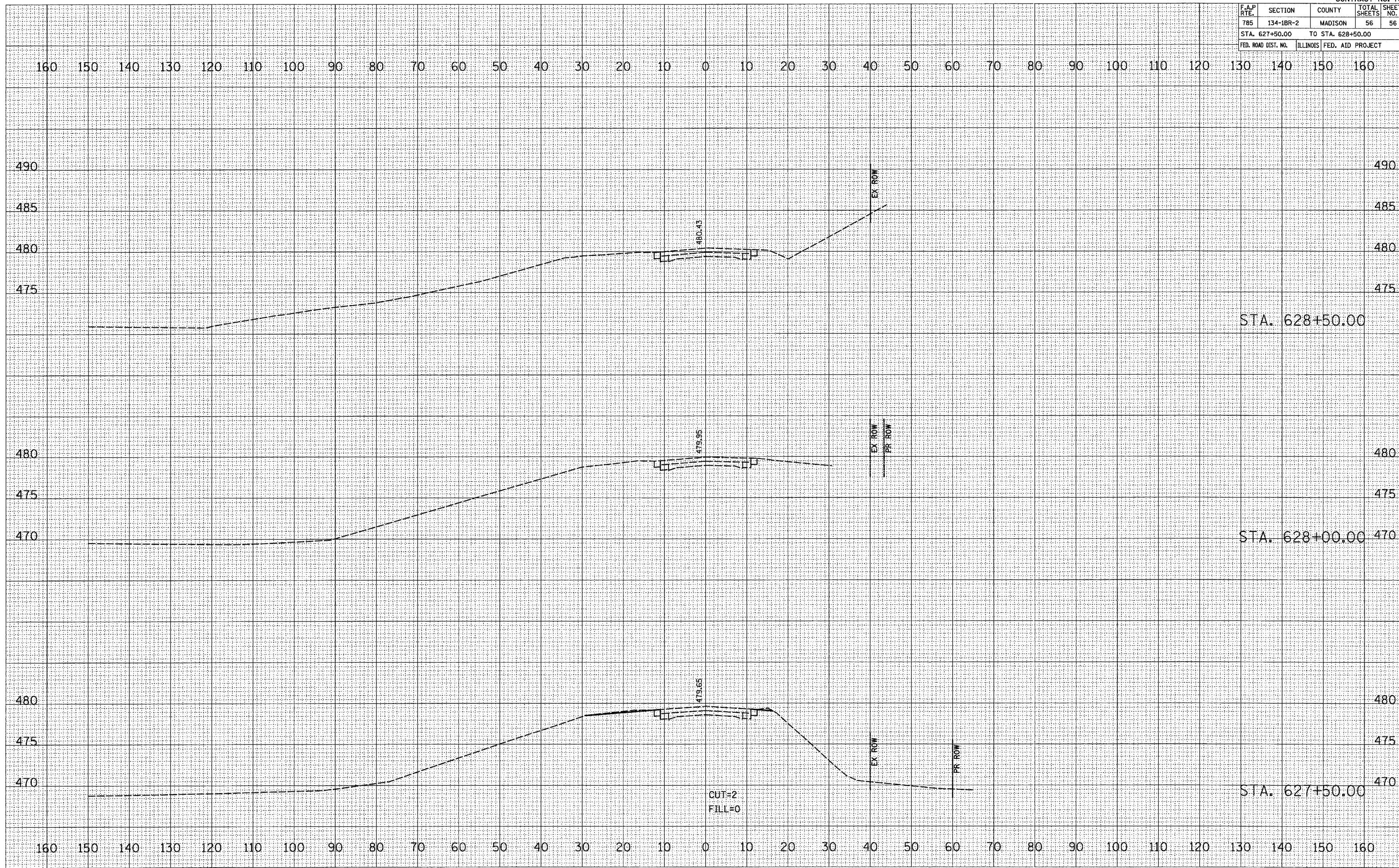


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	134-1BR-2	MADISON	56	56
STA. 627+50.00		TO STA. 628+50.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

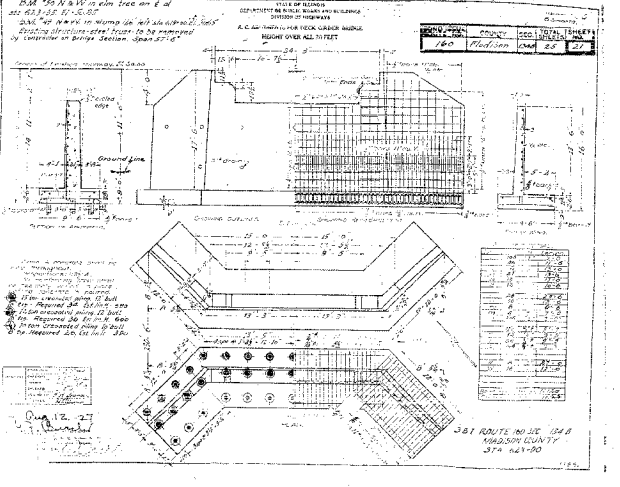
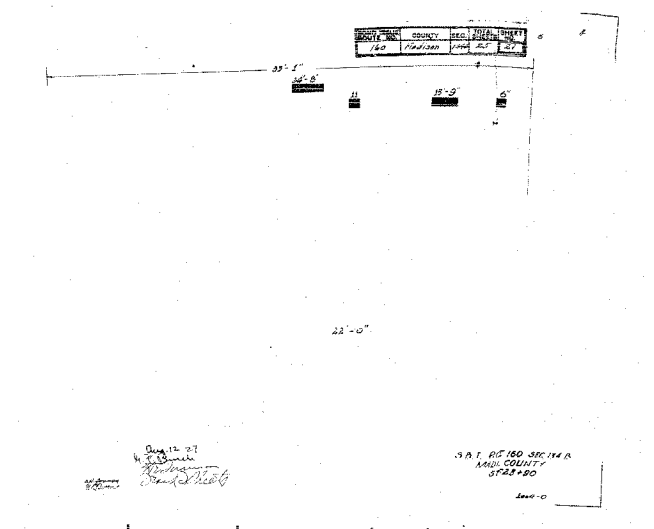
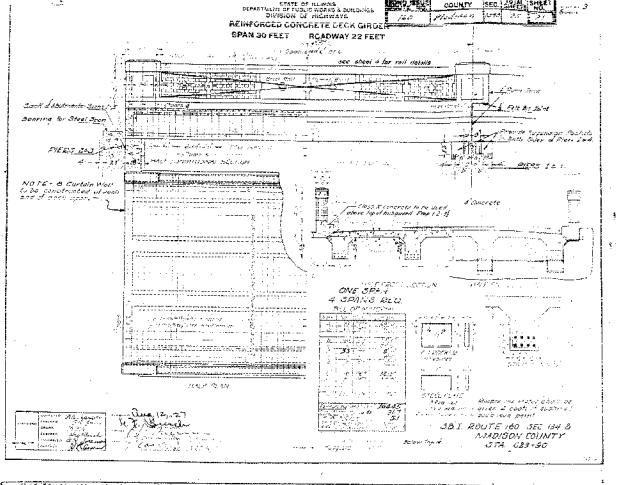
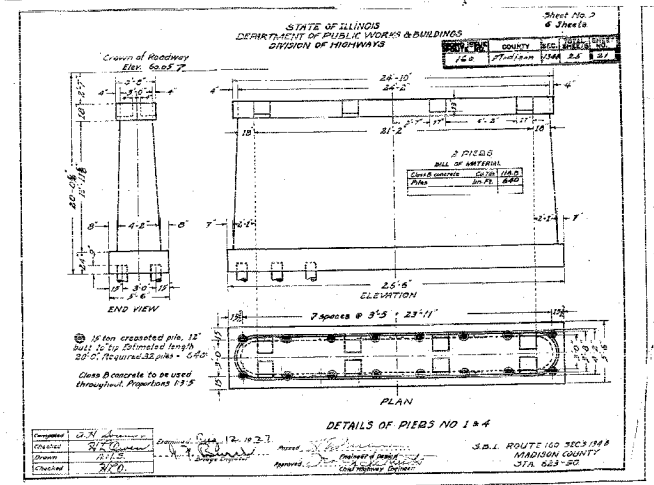
FINAL SURVEY	DATE
SURVEYED	
BY	
NOTE BOOK	
NO.	
AREAS CHECKED	

ORIGINAL SURVEY	DATE
SURVEYED	
BY	
NOTE BOOK	
NO.	
AREAS CHECKED	

PLOT DATE = 03/21/2007  
 FILE NAME = H:\A\_250941\Technical Production\Sheetwork\Sheetwork2107.dgn  
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CONTRACT NO. 76902			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
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STA.		TO STA.	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	



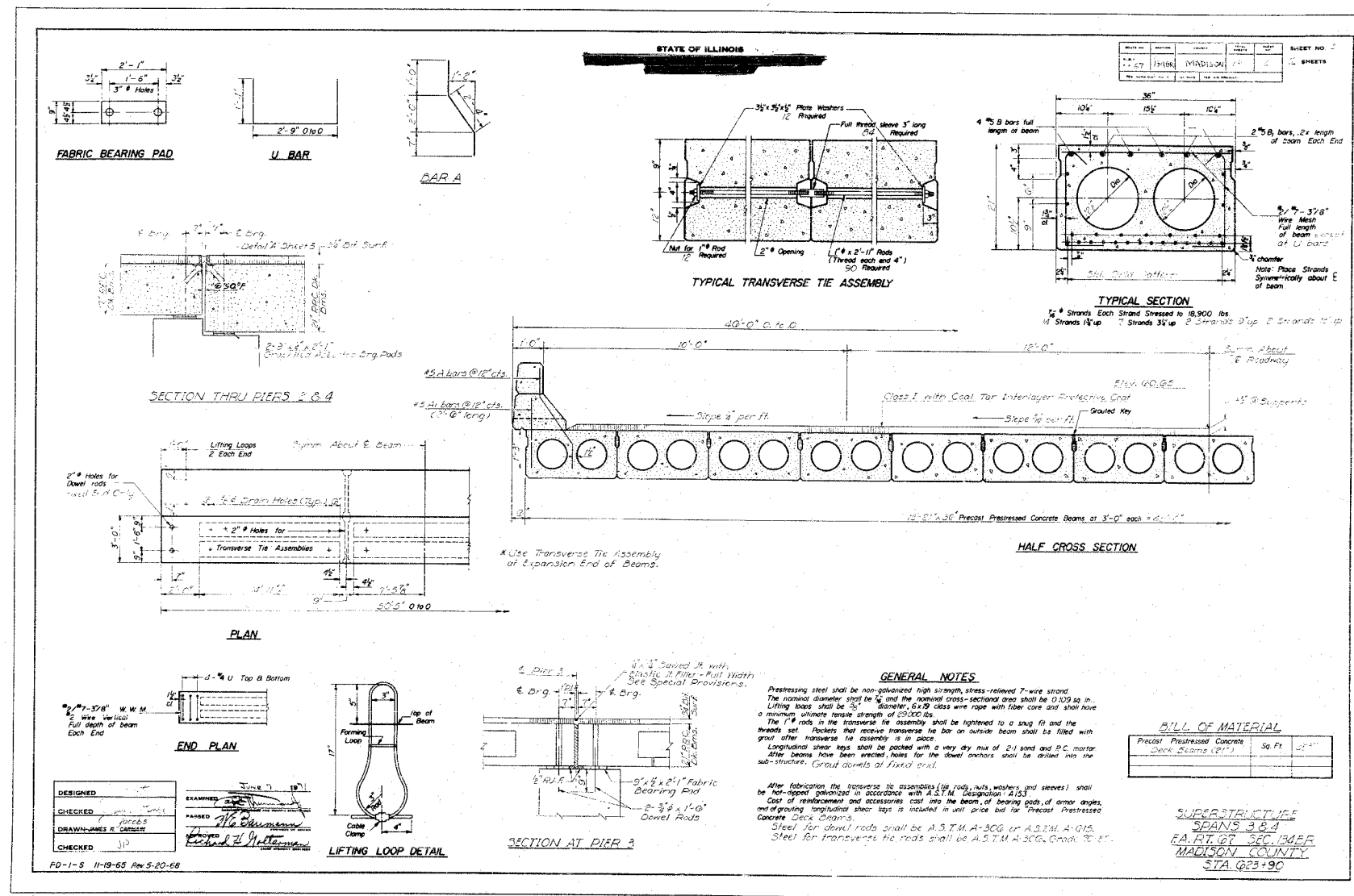
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 USER NAME = ommartan

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 EXISTING BRIDGE  
 PLANS  
 FYI  
 FAP ROUTE 785  
 SECTION 134-1BR-2  
 MADISON COUNTY







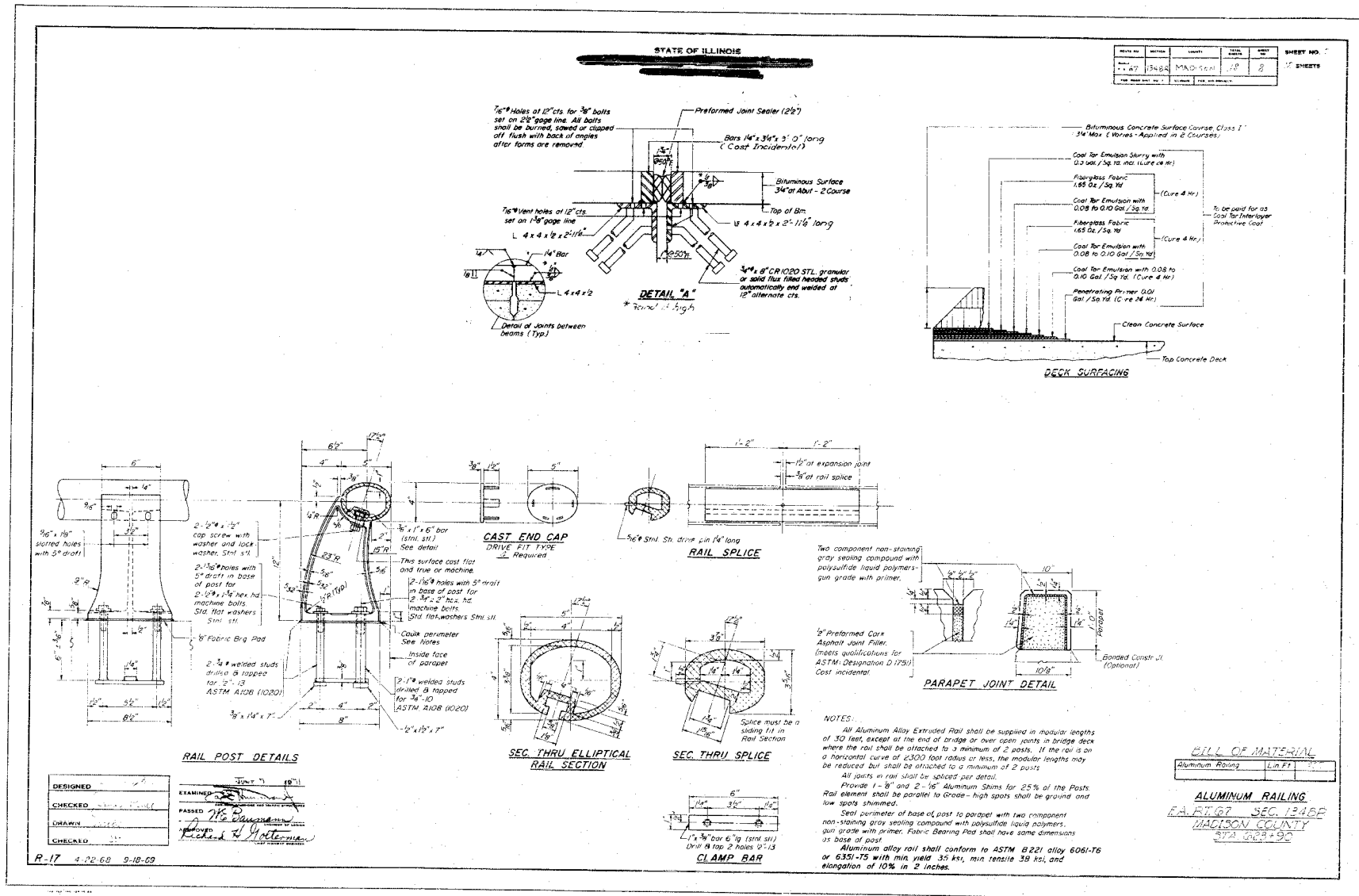
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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 EXISTING BRIDGE  
 PLANS  
 FYI  
 FAP ROUTE 785  
 SECTION 134-IBR-2  
 MADISON COUNTY



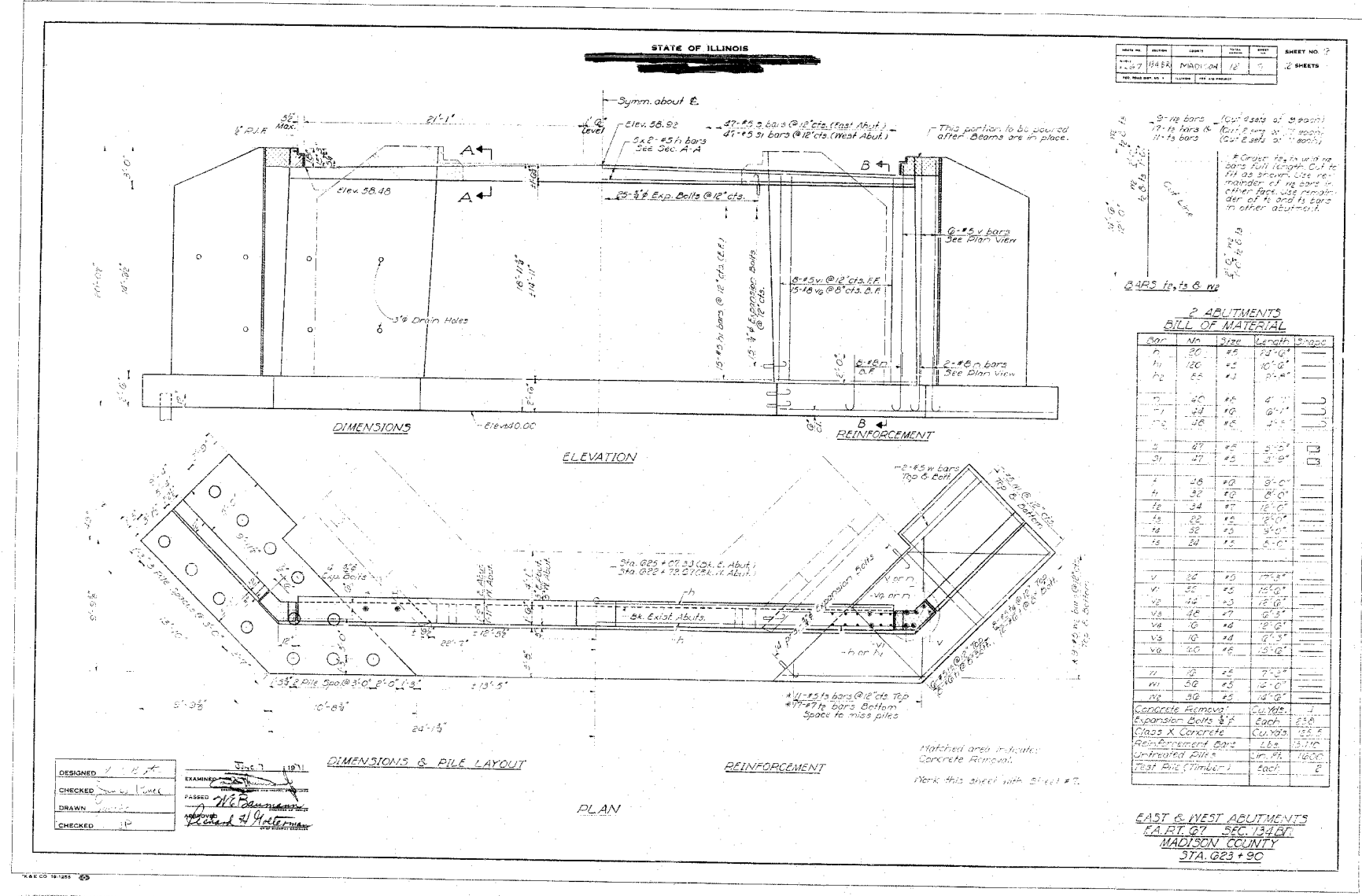
CONTRACT NO. 76902				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	134-1BR-2	MADISON	56	56F
STA.			TO STA.	
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



PLOT DATE = 3/22/2007  
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USER NAME = [Name]  
USER = [Name]

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
EXISTING BRIDGE  
PLANS  
FYI  
FAP ROUTE 785  
SECTION 134-1BR-2  
MADISON COUNTY



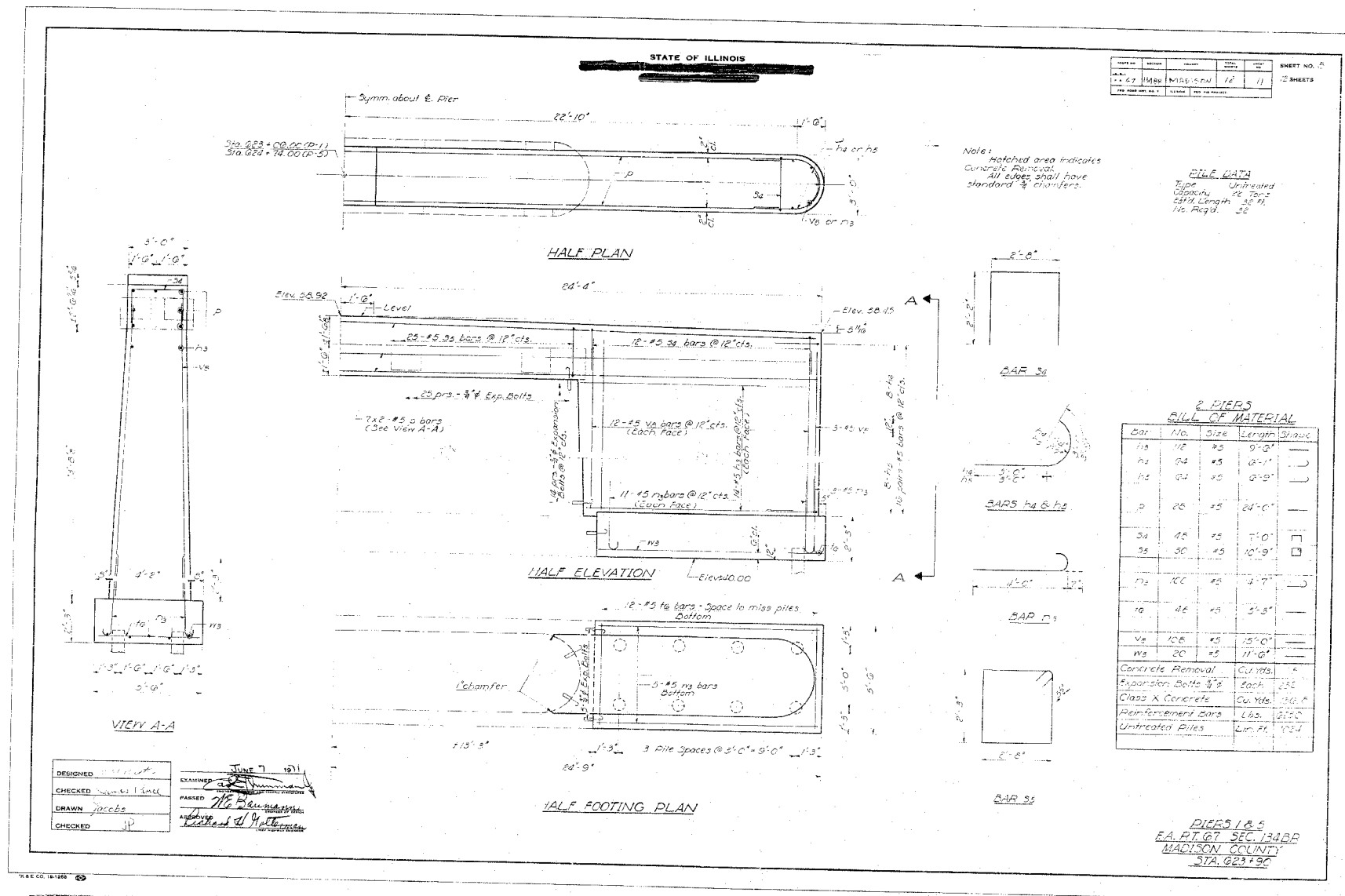
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REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 EXISTING BRIDGE  
 PLANS  
 FYI  
 FAP ROUTE 785  
 SECTION 134-1BR-2  
 MADISON COUNTY



CONTRACT NO. 76902				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	134-1BR-2	MADISON	56	56H
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

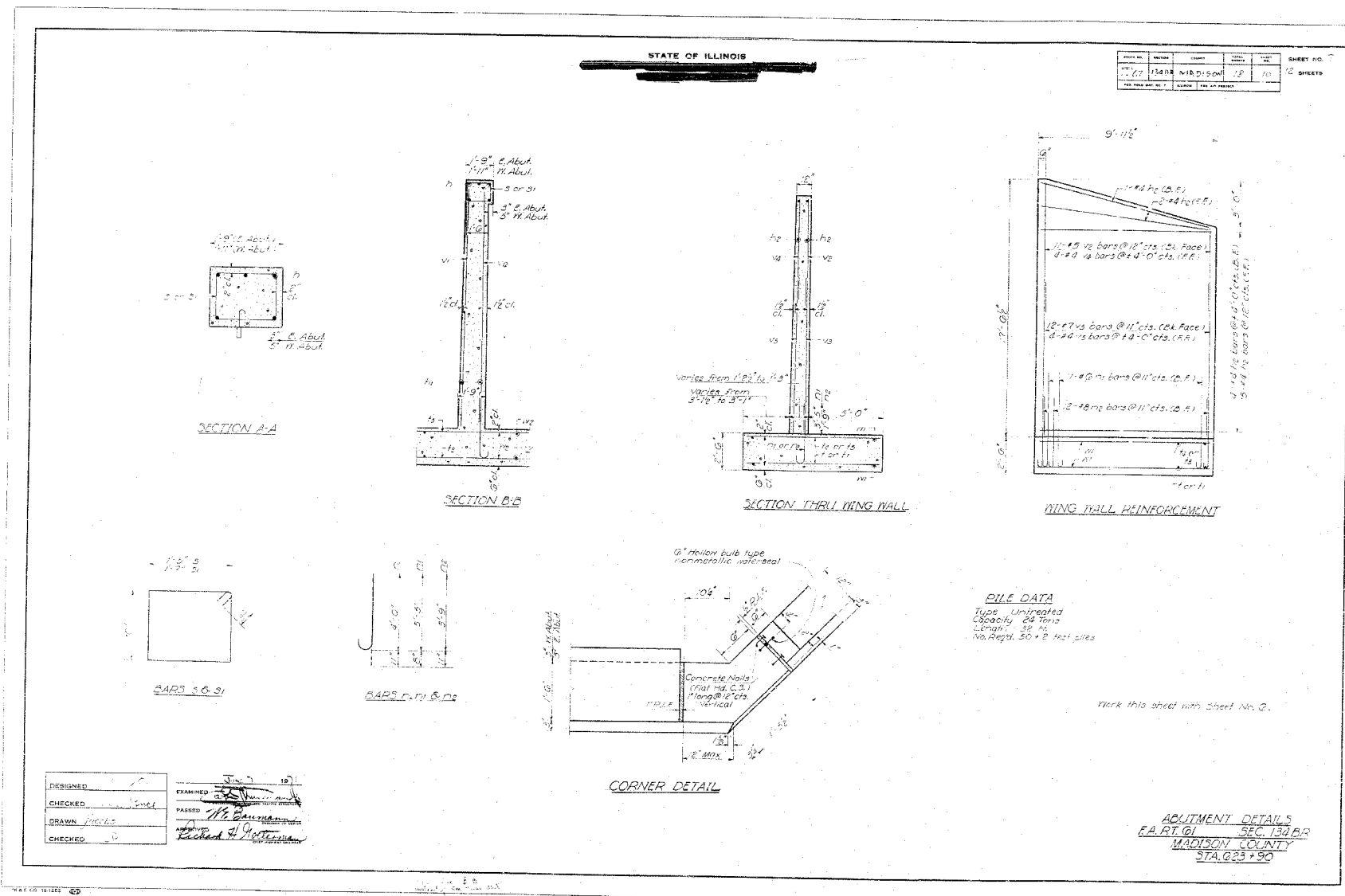


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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
EXISTING BRIDGE  
PLANS  
FYI  
FAP ROUTE 785  
SECTION 134-1BR-2  
MADISON COUNTY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	134-1BR-2	MADISON	56	561
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



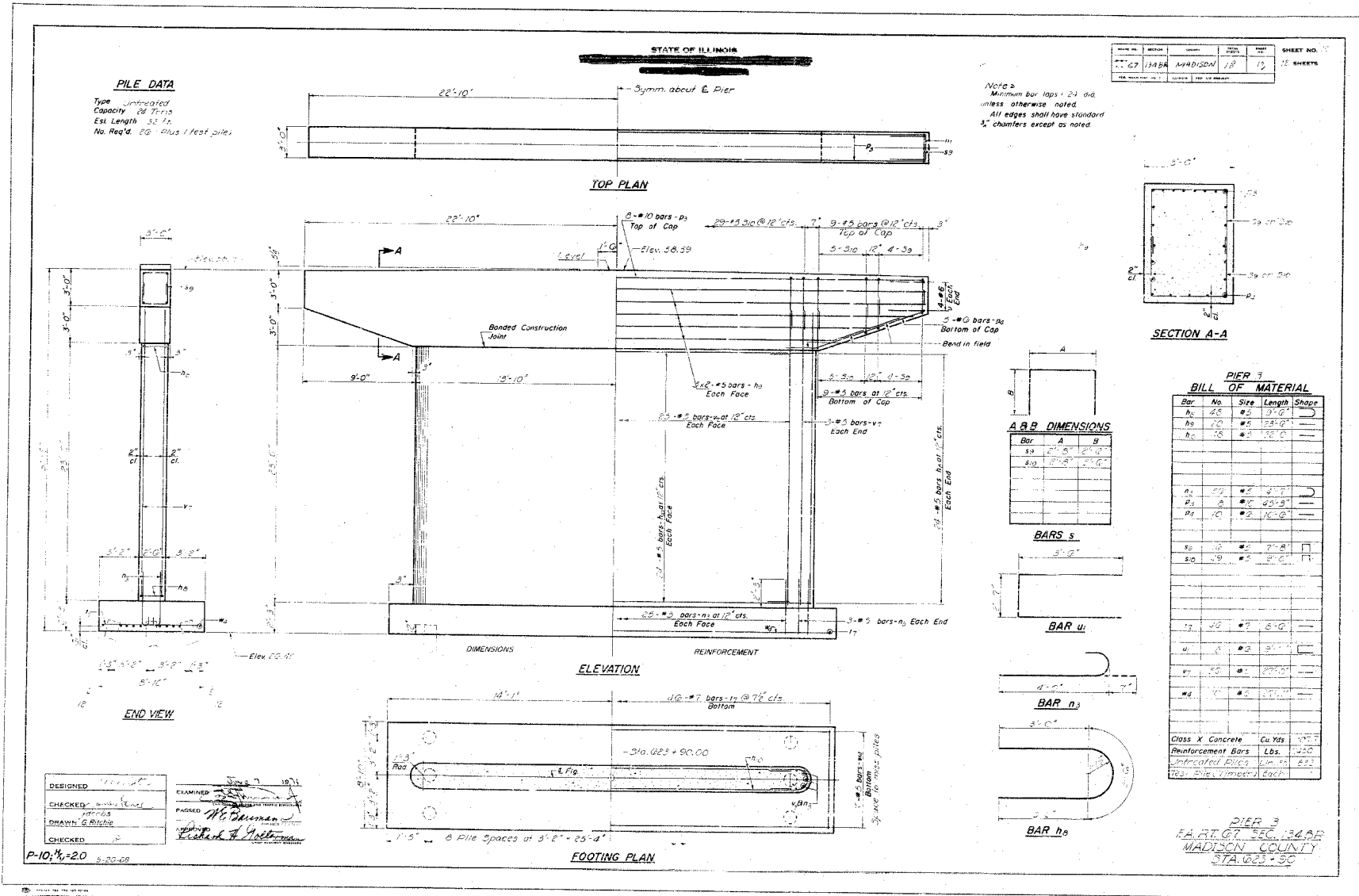
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 USER NAME = csmartin

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 EXISTING BRIDGE  
 PLANS  
 FYI  
 FAP ROUTE 785  
 SECTION 134-1BR-2  
 MADISON COUNTY







PLOT DATE = 3/22/2007  
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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**EXISTING BRIDGE**  
**PLANS**  
**FYI**  
 FAP ROUTE 785  
 SECTION 134-1BR-2  
 MADISON COUNTY